

UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF COLUMBIA

UNITED STATES OF AMERICA,

Plaintiff,

v.

CUMMINS INC.,

Defendant.

PEOPLE OF THE STATE OF  
CALIFORNIA,

Plaintiff,

v.

CUMMINS INC.,

Defendant.

**CONSENT DECREE**

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## CONSENT DECREE

A. Plaintiff the United States of America, on behalf of the United States Environmental Protection Agency (“EPA”), is concurrently with the lodging of this Consent Decree filing a complaint in this action (the “U.S. Complaint”) alleging that Defendant Cummins Inc. (“Cummins”) violated Sections 203(a)(1) and (a)(3) of the Clean Air Act (the “Act”), 42 U.S.C. §§ 7522(a)(1) and (a)(3).

B. The U.S. Complaint alleges that Cummins committed those violations with respect to nearly one million Model Year (“MY”) 2013-2023 RAM 2500 and RAM 3500 vehicles equipped with 6.7 liter diesel engines, where Cummins manufactured the vehicle engines and sought the air pollutant emissions-related EPA Certificates of Conformity and California Air Resources Board (“CARB”) Executive Orders that were legally required for those vehicles (collectively, the “Subject Vehicles”).

C. The U.S. Complaint and this Consent Decree separate the Subject Vehicles into two distinct sub-categories based on their MYs and electronic control unit software configurations/calibrations, with those two vehicle sub-categories described and defined below and in Appendix A hereto as: (i) the “2013-2019 RAMs” and (ii) the “2019-2023 RAMs.” As defined below and in Appendix A, the 2019 RAMs are included in both sub-categories because the 2019 RAMs have different software calibrations that distinguish those vehicles.

D. The U.S. Complaint alleges that the 2013-2019 RAMs had certain software functions and calibrations that caused the emission control system of those vehicles to perform differently — and sometimes underperform — during normal vehicle operation and use than during emissions testing. The U.S. Complaint alleges that, during normal vehicle operation and use, the 2013-2019 RAMs have emitted increased levels of oxides of nitrogen (“NOx”). The

U.S. Complaint alleges that some of the software functions and calibrations installed in the 2013-2019 RAMs are prohibited Defeat Devices under the Act. Finally, the U.S. Complaint alleges that some software functions and calibrations in the 2013-2019 RAMs constituted Auxiliary Emission Control Devices (“AECDs”) that were either not disclosed or not adequately disclosed during the vehicle emission certification process, in violation of the Act.

E. The U.S. Complaint alleges that some software functions and calibrations in the MY 2019-2023 RAMs constituted AECDs that were either not disclosed or not adequately disclosed during the vehicle emission certification process, in violation of the Act. The U.S. Complaint does not allege that the 2019-2023 RAMs were equipped with prohibited Defeat Devices.

F. The People of the State of California, acting by and through Rob Bonta, Attorney General of the State of California (the “California Attorney General”), and CARB (collectively, “California Plaintiffs”), are concurrently with the lodging of this Consent Decree filing a complaint in this action (the “California Complaint”) against Cummins. This Consent Decree partially resolves the claims in the California Complaint. In the California Complaint, CARB alleges that Cummins violated certain provisions of California law — including without limitation California Health and Safety Code sections 43008.6, 43016, 43106, 43151, 43154, 43211, and 43212; California Vehicle Code section 27156; 13 C.C.R. §§ 1961, 1961.2, 1965, and 1968.2; and 42 U.S.C. § 7604 and 40 C.F.R. § 54.3 — with regard to approximately one-hundred thousand MY 2013-2023 RAM 2500 and RAM 3500 vehicles equipped with diesel engines manufactured by Cummins and sold and/or distributed in California (a subset of the Subject Vehicles). In the California Complaint, the California Attorney General also alleges that Cummins violated provisions of California law — including without limitation California

Business and Professions Code sections 17200 et seq., based on predicate violations by Cummins of federal and state statutes and regulations, and California Civil Code section 3494— with regard to the MY 2013-2023 RAM 2500 and RAM 3500 vehicles. A separate proposed Consent Decree between Defendant and the California Plaintiffs has been lodged concurrently with this Consent Decree (“California Partial Consent Decree”). The California Partial Consent Decree resolves the remaining claims in the California Complaint, including the claims brought by the California Attorney General.

G. The California Complaint alleges, among other things, that the Subject Vehicles sold or distributed in California contain undisclosed AECDs and/or prohibited Defeat Devices, and undisclosed running changes and field fixes, in violation of California law, and that some have resulted in increased NOx emissions from each Subject Vehicle in excess of California limits.

H. Cummins denies the allegations in the Complaints and does not admit any liability to the United States, the California Plaintiffs, or otherwise arising out of or in connection with the allegations in the Complaints.

I. Based on information and submissions provided by Cummins, EPA and CARB annually certified that the software configurations/calibrations installed in the Subject Vehicles complied with the requirements of the Act and, as to CARB, also with California law.

J. After certification of the MY 2023 Subject Vehicles, Cummins submitted supplemental AECD disclosures for those vehicles on December 21, 2022, which added a disclosure for a software feature identified as an “Alternative NOx Conversion Target Table.”

K. Before the lodging of this Consent Decree, Cummins: (i) devised Emission Modifications (as defined below) for the 2013-2019 RAMs; (ii) conducted vehicle testing with

the Emissions Modifications in accordance with protocols reviewed by EPA and CARB; and (iii) commenced installation of its revised software configurations/calibrations as updates for Eligible Vehicles (as defined below) through a set of vehicle recall programs.

L. The Emission Modifications that have been and will be installed in Eligible Vehicles update the emission control software of the 2013-2019 RAMs with upgraded calibrations that are designed to achieve better emission performance. The installation of the Emission Modifications does not involve or require any associated mechanical adjustments or parts replacements.

M. After the lodging of this Consent Decree, Cummins will ensure the continued installation of its revised software configurations/calibrations as updates for Eligible Vehicles through ongoing vehicle recall programs conducted in accordance with the requirements of this Consent Decree.

N. Based upon the results of the prior vehicle testing with Cummins' revised software configurations/calibrations and the additional testing required by this Consent Decree, EPA and CARB consider the updates to the Eligible Vehicles, together with the other terms set forth in this Consent Decree, to be an appropriate remedy for, and to resolve in full, their respective allegations in the Complaints, as set forth in Section VI.A (2013-2019 RAM Compliance) of this Consent Decree. However, this Consent Decree does not resolve the claims of the California Attorney General alleged in the California Complaint, which are resolved by the California Partial Consent Decree.

O. The Parties recognize, and the Court by entering this Consent Decree finds, that the United States and CARB are not issuing new Certificates of Conformity or Executive Orders, respectively, for the Subject Vehicles, nor are they revoking the existing Certificates of

Conformity or Executive Orders for the Subject Vehicles. The Parties also recognize that the requirements of this Consent Decree only apply to imports and sales into the United States.

P. The Parties recognize, and the Court by entering this Consent Decree finds, that this Consent Decree has been negotiated by the Parties in good faith and will avoid litigation among the Parties and that this Consent Decree is fair, reasonable, and in the public interest.

NOW, THEREFORE, before the taking of any testimony, without the adjudication or admission of any issue of fact or law except as provided in Section I, and with the consent of the Parties, IT IS HEREBY ADJUDGED, ORDERED, AND DECREED as follows:

### **I. JURISDICTION AND VENUE**

1. This Court has jurisdiction over the subject matter of this action, pursuant to 28 U.S.C. §§ 1331, 1345, and 1355, and Sections 203, 204, and 205 of the Act, 42 U.S.C. §§ 7522, 7523, and 7524, and over the Parties. Venue lies in this District pursuant to 28 U.S.C. § 1391 and 1395(a). The Court has supplemental jurisdiction over the California State law claims pursuant to 28 U.S.C. § 1367. For purposes of this Consent Decree, or in any action to enforce this Consent Decree, Cummins consents to this Court's jurisdiction over this Consent Decree and over any action to enforce this Consent Decree, and over Cummins, and consents to venue in this judicial district. Cummins reserves the right to challenge and oppose any claims to jurisdiction that do not arise from the Court's jurisdiction over this Consent Decree or an action to enforce this Consent Decree.

2. For purposes of this Consent Decree only, Cummins agrees that: (i) the U.S. Complaint states claims upon which relief may be granted pursuant to Sections 203, 204, and 205 of the Act, 42 U.S.C. §§ 7522, 7523, and 7524; and (ii) the California Complaint states claims upon which relief may be granted pursuant to California Health and Safety Code sections

43008.6, 43016, 43151, 43154, 43211, and 43212; California Vehicle code section 27156; 13 C.C.R. §§ 1961, 1961.2, 1965, and 1968.2; and 42 U.S.C. § 7604 and 40 C.F.R. § 54.3.

## II. APPLICABILITY

3. The obligations of this Consent Decree apply to and are binding upon the United States and CARB, and upon Cummins and any successors, assigns, or other entities or persons otherwise bound by law.

4. No transfer of ownership or operation, whether in compliance with the procedures of this Paragraph or otherwise, shall relieve Cummins of its obligation to ensure that the terms of the Decree are implemented. At least 30 Days prior to such transfer, Cummins shall provide a copy of this Consent Decree to the proposed transferee and shall simultaneously provide written notice of the prospective transfer, together with a copy of the proposed written agreement, to the United States, CARB, and the California Attorney General in accordance with Section XV (Notices and Submissions).

5. Cummins shall provide a copy of this Consent Decree to the members of its Board of Directors and to its officers and executives whose duties might reasonably include compliance with, or oversight of compliance with, any provision of this Consent Decree. Cummins shall also ensure that any contractor or Business Partner that will perform work required under this Consent Decree, or any agent or employee whose duties might reasonably include the performance of work required under this Consent Decree, are made aware of those requirements relevant to their performance. Cummins shall undertake reasonable best efforts to condition any contract for performance of work required under this Consent Decree upon performance of the work in conformity with the terms of this Consent Decree.



6. In any action to enforce this Consent Decree, Cummins shall not raise as a defense the failure by any of its officers, directors, employees, agents, contractors, or Business Partners to take any actions necessary to comply with the provisions of this Consent Decree, except in accordance with the provisions of Section X (Force Majeure), below.

### III. DEFINITIONS

7. Capitalized terms used in this Consent Decree that are defined in the Act or in regulations promulgated pursuant to the Act have the meanings assigned to them in the Act or such regulations, unless otherwise provided in this Consent Decree. Likewise, where context-appropriate, capitalized terms that are defined in the California Health and Safety Code or in CARB regulations promulgated pursuant to the California Health and Safety Code shall have the meanings assigned to them in the California Health and Safety Code or such regulations, unless otherwise provided in this Consent Decree. Capitalized terms that are defined in this Consent Decree are defined for purposes of this Consent Decree only and are not defined or applicable for any other purpose. Whenever the capitalized terms set forth below are used in this Consent Decree, the following definitions apply:

- a. “2013-2019 RAMs” means the sub-category of Subject Vehicles identified as 2013-2019 RAMs in Appendix A.
- b. “2019-2023 RAMs” means the sub-category of Subject Vehicles identified as 2019-2023 RAMs in Appendix A.
- c. “2019-2023 RAM Software Configurations/Calibrations” means the Emissions Control System software configurations/calibrations prescribed by Cummins that are: (i) installed in the 2019-2023 RAMs as of the Date of Lodging; and

(ii) subsequently installed in the 2019-2023 RAMs as modifications or adjustments before Termination of this Consent Decree.

d. “Air Pollution Control Fund” means the fund established by California Health and Safety Code section 43015.

e. “Auxiliary Emission Control Device” or “AECDD” has the meaning set forth in 40 C.F.R. § 86.1803-01.

f. “Business Day” means a calendar day that does not fall on a Saturday, Sunday, or federal or California holiday. In computing any period of time under this Consent Decree, where the last Day would fall on a Saturday, Sunday, a federal holiday, or a California or Indiana state holiday, the period shall run until the close of business of the next Business Day. The time in which any act provided by this Consent Decree is to be done is computed by excluding the first day, and including the last, unless the last day is a Saturday, Sunday, or federal, Indiana, or California holiday, and then it is also excluded.

g. “Business Partners” means: (1) Cummins’ First-Tier Customer; and (2) Dealers.

h. “CA AG” or “California Attorney General” means the California Attorney General Rob Bonta and any of his successors.

i. “Calendar Quarter” means the period of time in a calendar year from January 1- March 30, from April 1-June 30, from July 1-September 30, or from October 1-December 31. In measuring time by Calendar Quarters after the Consent Decree’s Effective Date, the Calendar Quarters after the Effective Date shall not be construed to include the Calendar Quarter that includes the Consent Decree’s Effective

Date. For example, if the Consent Decree’s Effective Date is January 15 of a given year, then the first Calendar Quarter after the Effective Date is April 1-June 30 of that year.

j. “California” or “CA” means the State of California.

k. “California Complaint” means the complaint filed by the State of California in this action.

l. “California EMP Rate” means the California Emission Modification Program success rate of at least 85% for the 2013-2019 RAMs in California specified in Consent Decree Paragraph 24.d.

m. “CARB” means the California Air Resources Board and any of its successor departments or agencies.

n. “CDCS” means Consolidated Debt Collection System.

o. “CDX” means Central Data Exchange, the EPA’s electronic reporting site which can be found at found at [https://cdx.epa.gov/epa\\_home.asp](https://cdx.epa.gov/epa_home.asp).

p. “Certificate of Conformity” means the document that EPA issues to a vehicle or engine manufacturer to certify that a vehicle or engine class conforms to EPA requirements.

q. “Clean Air Act” or “Act” means 42 U.S.C. §§ 7401–7671q.

r. “Complaints” means the U.S. Complaint and the California Complaint.

s. “Confidential Business Information” or “CBI” means information protected under 40 C.F.R. Part 2 and/or comparable California law, including California Government Code § 7920.000 et seq. and 17 C.C.R. §§ 91000 et seq.

t. “Consent Decree” or “Decree” means this Consent Decree and all appendices attached hereto (listed in Section XXV (Appendices)).

u. “Consumer Emission Modification Disclosure” means the disclosure to all affected Eligible Owners and Eligible Lessees made and described in Consent Decree Paragraphs 20.c and 21.c.

v. “Cummins” means Defendant Cummins Inc.

w. “Date of Lodging” means the day this Consent Decree is filed for lodging with the Court, before commencement of the opportunity for public comment envisioned by Section XX (Public Participation).

x. “Day” means a calendar day unless expressly stated to be a Business Day. In computing any period of time for a deadline under this Consent Decree, where the last day would fall on a Saturday, Sunday, a federal holiday, or a California or Indiana state holiday, the period runs until the close of business of the next Business Day. The time in which any act provided by this Consent Decree is to be done is computed by excluding the first day, and including the last, unless the last day is a Saturday, Sunday, or federal, Indiana, or California holiday, and then it is also excluded.

y. “Dealers” means RAM truck dealers authorized by the First-Tier Customer to sell and/or service Subject Vehicles in the United States.

z. “Defeat Device” has the meaning provided under 40 C.F.R. § 86.1803-01 and 42 U.S.C. § 7522(a)(3)(B).

aa. “Diesel Exhaust Fluid” or “DEF” means a liquid reducing agent used in conjunction with selective catalytic reduction to reduce NOx emissions. DEF is generally understood to be an aqueous solution of urea conforming to the specification of ISO 22241.

bb. “Diesel-Fueled Engines” means engines with operating characteristics significantly similar to the theoretical diesel combustion cycle. The non-use of a throttle during normal operation is indicative of a diesel engine as that term is used in 40 C.F.R. Part 86, Subpart S.

cc. “Diesel Fueled Vehicles” means vehicles equipped with Diesel-Fueled Engines.

dd. “DOJ” means the United States Department of Justice and any of its successor departments or agencies.

ee. “Effective Date” means the date upon which this Consent Decree is entered by the Court or a motion to enter the Consent Decree is granted, whichever occurs first, as recorded on the Court’s docket.

ff. “Eligible Lessee” means: (1) the current lessee or lessees of an Eligible Vehicle with an active lease as of the date the Eligible Vehicle receives the applicable Emission Modification; or (2) solely for purposes of any applicable Special Extended Warranty, the subsequent lessee or lessees of an Eligible Vehicle that has received the applicable Emission Modification.

gg. “Eligible Owner” means: (1) the owner or owners of an Eligible Vehicle on the day that the Eligible Vehicle receives or is eligible to receive the Emission Modification; or (2) solely for purposes of any applicable Special Extended Warranty, the subsequent owner or owners of an Eligible Vehicle that has received the Emission Modification.

hh. “Eligible Vehicle” means any 2013-2019 RAM that is: (1) registered with a state Department of Motor Vehicles or equivalent agency or held by a Dealer or

unaffiliated dealer and located in the United States; and (2) operable as of the date the vehicle is brought in for the Emission Modification. For the provisions of this Consent Decree concerning the MY 2019 Special Extended Warranty, the term “Eligible Vehicle” shall also include any MY 2019 RAM that was originally equipped with the 2019 Emission Modification (also known as MY 2019 RAM Software Calibration 3). “Eligible Vehicles” includes any RAM vehicles imported into the United States and equipped with the Pre-Replacement Software Configurations for the MY 2013-2018 RAMs or the MY 2019 RAMs.

ii. “Emission Control System” means all emission control devices, auxiliary emission control devices, engine modifications and strategies, and other elements of design that are used to control exhaust emissions of a vehicle.

jj. “Emission Modification” or “Emissions Modifications” means the revised software configurations/calibrations that Cummins and its Business Partners have been and will be installing in Subject Vehicles as part of the Emissions Modification Program outlined in Consent Decree Paragraph 20 (relating to the 2019 Emission Modification) and/or Consent Decree Paragraph 21 (relating to the 2013-2018 Emission Modification). The terms “Emission Modification” and “Emissions Modifications” shall also include and encompass any Allowable Emissions Modification Adjustments to the 2019 Emission Modification and/or the 2013-2018 Emission Modification that are made in compliance with Consent Decree Paragraph 23.

kk. “EPA” means the United States Environmental Protection Agency and any of its successor departments or agencies.

ll. “Field Fix” has the meaning pursuant to 40 C.F.R. § 86.1842-01(b) and/or 13 C.C.R. §§ 1961(d), 1961.2(d) and/or CARB Manufacturer’s Advisory Correspondence #79-002, “Field Fixes Involving Emission-Related Components,” (Jan. 31, 1979), and/or EPA Advisory Circular 2B, *Field Fixes Related to Emission Control-Related Components* dated March 17, 1975, as applicable.

mm. “First-Tier Customer” means FCA US LLC, which purchased Diesel-Fueled Engines from Cummins for use in Subject Vehicles that FCA US LLC manufactured.

nn. “Flat File” means a comprehensive file that consists of a series of rows of test records organized in columns of test parameters or variables from dynamometer tests. The unique records are identified in a tabular format by test vehicle, test ID, test type, and phase number. The tabular file is to be provided in Excel format.

oo. “Materials” means submissions and other documents, certifications, plans, reports, notifications, statements of position, data, or other information required by or submitted pursuant to this Consent Decree.

pp. “MIL” means the malfunction indicator light of the OBD system outlined in 13 C.C.R. § 1968.2 that illuminates to notify the vehicle operator of detected malfunctions.

qq. “Model Year” or “MY” has the meaning provided under 40 C.F.R. § 86.1803–01.

rr. “MY 2013-2018 RAMs” means the Subject Vehicles categorized and listed in Appendix A as MY 2013, MY 2014, MY 2015, MY 2016, MY 2017, and MY 2018 RAM vehicles.

ss. “MY 2018 RAMs” means the Subject Vehicles categorized and listed in Appendix A as MY 2018 RAM vehicles, including both the MY 2018 RAM vehicles in Test Group CEXD06.78VV2500 and the MY 2018 RAM vehicles in Test Group CEXD06.78WV.

tt. “MY 2018 RAM Emission Standard” means the following full useful life emissions standards: (1) for Test Group JCEXD06.78VV — Federal Tier 3, HD Class 2b, Bin 250, as set forth in 40 C.F. R. § 86.1816-18, and California LEV III ULEV250, as set forth in 13 C.C.R. § 1961; and (2) for Test Group JCEXD06.78WV — Federal Tier 3, HD Class 3, Bin 400, as set forth in 40 C.F. R. § 86.1816-18, and California LEV III ULEV400, as set forth in 13 C.C.R. § 1961.

uu. “MY 2019 RAMs” means the Subject Vehicles categorized and listed in Appendix A as MY 2019 RAM vehicles, including the MY 2019 RAM 2500 and MY 2019 RAM 3500 vehicles originally equipped with Software Calibration 1 and Software Calibration 3.

vv. “National EMP Rate” means the National Emission Modification Program success rate of at least 85% for the 2013-2019 RAMs in the United States specified in Consent Decree Paragraph 24.c.

ww. “NHTSA” means the National Highway Traffic Safety Administration and any of its successor departments or agencies.

xx. “NO<sub>x</sub>” means oxides of nitrogen, i.e., the sum of the nitric oxide and nitrogen dioxide contained in a gas sample as if the nitric oxide were in the form of nitrogen dioxide.



yy. “On-Board Diagnostic System” or “OBD System” means all hardware, components, parts, sensors, subassemblies, software, AECDs, calibrations, and other elements of design that collectively constitute the system for monitoring all systems and components that must be monitored pursuant to the version of 13 C.C.R. § 1968.2 applicable at the time of certification for the particular Model Year of a Subject Vehicle, for the purpose of identifying and detecting malfunctions of such monitored systems and components, and for alerting the driver of such potential malfunctions by illuminating the MIL.

zz. “Paragraph” means a portion of this Consent Decree identified by an Arabic numeral.

aaa. “Parties” means the United States, the People of California by and through CARB, and Cummins.

bbb. “Pre-Replacement Software Configurations” means the Cummins-designed software configurations/calibrations in Subject Vehicles that were: (1) installed in certain MY 2019 RAMs before the commencement of the Emission Modification Program for MY 2019 outlined in Consent Decree Paragraph 20; and (2) installed in certain MY 2013-2018 RAMs before the commencement of Emission Modification Program for MY 2013-2018 outlined in Consent Decree Paragraph 21; and (3) installed in the 2019-2023 RAMs before the Date of Lodging.

ccc. “Records” means all non-identical copies of all documents, records, reports, or other information (including documents, records, or other information in electronic form).

ddd. “Root-Cause Evaluation” means an investigation of an In-Use Confirmatory Program (“IUCP”) noncompliance, as described in Paragraph 30.e of this Consent Decree, that occurs in a Subject Vehicle during implementation of this Consent Decree and which requires investigation pursuant to this Consent Decree. The purpose of the Root-Cause Evaluation is to identify the reason(s) why the IUCP noncompliance occurred. A Root-Cause Evaluation shall also include an assessment of whether the noncompliance is likely to occur in five or more Subject Vehicles and, if so, shall include the recommended actions to be taken by Cummins, if any, to address such noncompliance in Subject Vehicles.

eee. “Running Change” has the meaning provided under 40 C.F.R. § 86.1803-01.

fff. “Section” means a portion of this Consent Decree identified by a Roman numeral.

ggg. “Special Extended Warranty” means the warranty provided pursuant to the Consent Decree Paragraphs 19 and 26.

hhh. “Subject Vehicles” means any vehicles identified in Appendix A that were sold or offered for sale in (or introduced or delivered for introduction into commerce in) the United States and that are or were purported to have been covered by the EPA test groups listed in Appendix A, including such vehicles sub-categorized as 2013-2019 RAMs and 2019-2023 RAMs.

iii. “Submission” means any plan, report, application, or other item that is required to be submitted for approval pursuant to this Consent Decree.

jjj. “Test Group” means a vehicle family that is grouped together for certification and compliance purposes because the vehicles are expected to have similar emission characteristics throughout their useful life periods. Each Test Group is assigned a unique alphanumeric Test Group that begins with a one-digit model year date code. As used in this Consent Decree, the term “Test Group Suffix” means the portion of the alphanumeric Test Group code after the one-digit model year date code. For example, as shown in Appendix A, the Test Group Suffix for the 2019-2023 RAM 2500 vehicles is “CEXD06.78VV” and the Test Group Suffix for the 2019-2023 RAM 3500 vehicles is “CEXD06.78WV.”

kkk. “Undisclosed AECD” means an AECD installed in Subject Vehicles that:

- (1) Cummins developed and prescribed for installation in Subject Vehicles; and
- (2) Cummins did not list and describe as required by 40 C.F.R. § 86.1844-01(d)(11) and/or 40 C.F.R. § 86.1842-01. Provided, however, that solely for the purpose of this Consent Decree, the specially defined term “Undisclosed AECD” shall not include:
  - (1) the Alternative NOx Conversion Target Table AECD disclosed in Cummins’ December 21, 2022, supplemental AECD disclosure for MY 2023 Subject Vehicles; and
  - (2) prior versions or iterations of the Alternative NOx Conversion Target Table AECD previously installed in other Subject Vehicles.

lll. “United States” means the United States of America, acting on behalf of EPA. For the purpose of this Consent Decree, geographic references to the “United States” shall mean the United States of America’s 50 states, District of Columbia, and permanently inhabited territories of American Samoa, Guam, the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands.

mmm. “U.S. Complaint” means the complaint filed by the United States in this action.

nnn. “VIN” means vehicle identification number as defined in 49 C.F.R. § 565.12.

#### IV. CIVIL PENALTY

8. Civil Penalty Payments Under this Consent Decree. Within 30 Days after the Effective Date, Cummins shall pay the total sum of \$1,642,000,000 as a civil penalty, together with interest accruing from the Date of Lodging, at the rate specified in 28 U.S.C. § 1961. That civil penalty payment under this Consent Decree will be divided between the United States and CARB as follows:

a. Cummins shall pay the United States \$1,478,000,000 (together with the accrued interest on that amount).

b. Cummins shall pay CARB \$164,000,000 (together with the accrued interest on that amount).

9. Instructions for Payment to the United States.

a. Cummins shall pay the amount set forth in Paragraph 8.a to the United States by FedWire Electronic Funds Transfer to the DOJ account, in accordance with instructions provided to Cummins by the Financial Litigation Unit of the United States Attorney’s Office for the District of Columbia after the Effective Date. The payment instructions provided by the Financial Litigation Unit will include a CDCS number, which Cummins shall use to identify all payments required to be made in accordance with this Consent Decree. The Financial Litigation Unit will provide the payment instructions to:

Cummins Inc.  
Treasury & Tax  
500 Jackson Street, MC 60128  
Email: To Be Provided by Cummins

on behalf of Cummins no later than five Business Days after the Effective Date.

Cummins may change the individual to receive payment instructions on its behalf by providing written notice of such change to DOJ and EPA in accordance with Section XV (Notices and Submissions).

b. At the time of payment to the United States, Cummins shall send notice that payment has been made: (i) to EPA via email at [cinwd\\_acctsreceivable@epa.gov](mailto:cinwd_acctsreceivable@epa.gov) or via regular mail at EPA Cincinnati Finance Office, 26 W. Martin Luther King Drive, Cincinnati, Ohio 45268; (ii) to EPA via email or regular mail in accordance with Section XIV; and (iii) to DOJ via email or regular mail in accordance with Section XV (Notices and Submissions). Such notice shall state that the payment is for the civil penalty owed pursuant to the Consent Decree in *United States, v. Cummins Inc.* and shall reference the civil action number, CDCS Number and DOJ case number 90-5-2-1-12300.

10. Instructions for Payment to CARB.

a. Cummins shall pay the amount set forth in Paragraph 8.b to the “California Air Resources Board” by check, accompanied by a Payment Transmittal Form (which CARB will provide to the addressee listed in Paragraph 9.a no later than five Business Days after the Effective Date), with the check mailed to:

California Air Resources Board  
Accounting Office  
P.O. Box 1436  
Sacramento, CA 95812-1436;

or by wire transfer, in which case Cummins shall use the following wire transfer information and send the Payment Transmittal Form to the above address prior to each wire transfer:

State of California Air Resources Board  
c/o Bank of America, Inter Branch to 0148  
Routing No. 0260-0959-3; Account No. 01482-80005  
Notice of Transfer: Accounting; Fax: (916) 322-9612  
Reference: United States v. Cummins, CARB Case #C00261.

Cummins is responsible for any bank charges incurred for processing wire transfers, and for replacing any checks due to a check bouncing or being lost in the mail.

b. Penalties paid to CARB under this Consent Decree shall be deposited into the Air Pollution Control Fund for the purpose of enhancing CARB's mobile source emissions control program through additional certification review, in-use evaluation, real-world testing, enforcement actions, and other CARB activities related to the control of air pollution.

11. At the time of payment to CARB, Cummins shall send electronic notice that payment has been made to CARB via email to CumminsCD@arb.ca.gov and by email in accordance with Section XV (Notices and Submissions).

12. Cummins shall not deduct any penalties paid under this Consent Decree pursuant to this Section IV (Civil Penalty) or Section IX (Stipulated Penalties) — or the accrued interest on such penalties — in calculating its federal, state, or local income tax.

**V. APPROVAL OF SUBMISSIONS; U.S./EPA/CARB DECISION-MAKING**

13. For purposes of this Consent Decree, unless otherwise specified in this Consent Decree:

a. with respect to any Submission, other obligation that requires approval or other decision by Plaintiffs, or force majeure claim of Cummins that concerns Section VI.A (2013-2019 RAM Compliance), EPA/CARB or the United States/CARB shall issue a joint or sole decision, as applicable, concerning the Submission, other obligation, or force majeure claim;

b. with respect to any Submission, other obligation that requires approval or other decision by Plaintiffs, or force majeure claim of Cummins that concerns Section VII (Mitigation), EPA or the United States shall issue a decision concerning the Submission, other obligation, or force majeure claim;

c. with respect to any other Submission, obligation that requires approval or decision by Plaintiffs, or force majeure claim of Cummins under this Consent Decree, the position of EPA or the United States, after consultation with CARB, shall control.

14. Except as otherwise specified after review of any Submission, EPA/CARB or the United States/CARB shall in writing: (i) approve the Submission; (ii) approve the Submission upon specified conditions; (iii) approve part of the Submission and disapprove the remainder; or (iv) disapprove the Submission. In the event of an approval upon specified conditions or a disapproval, in full or in part, of any portion of the Submission, if not already provided with the EPA/CARB or the United States/CARB written decision, upon the request of Cummins, EPA/CARB or the United States/CARB will provide in writing the reasons for such specified conditions or disapproval.

15. If the Submission is approved pursuant to (i) in Paragraph 14 above, Cummins shall take all actions required by the Submission, in accordance with the schedules and requirements of the Submission, as approved. If the Submission is conditionally approved or

approved only in part pursuant to (ii) or (iii) in Paragraph 14 above, Cummins shall, upon written direction from EPA/CARB or the United States/CARB, take all actions required by the Submission that EPA/CARB or the United States/CARB determine(s) are technically severable from any disapproved portions, subject to Cummins' right to dispute only the conditions EPA/CARB or the United States/CARB specified or the disapproved portions, under Section XI (Dispute Resolution).

16. If the Submission is disapproved, in whole or in part pursuant to (iii) or (iv) in Paragraph 14 above, Cummins shall, within 45 Days or such other time as the Parties agree to in writing, correct all deficiencies and resubmit the Submission, or disapproved portion thereof, for approval, in accordance with Paragraph 14. If the resubmission is approved in whole or in part, Cummins shall proceed in accordance with Paragraph 15.

17. If a resubmitted Submission is disapproved, in whole or in part, EPA/CARB or the United States/CARB may again require Cummins to correct any deficiencies, in accordance with Paragraph 16; or EPA/CARB or the United States/CARB may itself/themselves correct any deficiencies, and Cummins shall implement the Submission as modified by EPA/CARB or the United States/CARB, subject to Cummins' right to invoke the dispute resolution procedures set forth in Section XI (Dispute Resolution) and the right of EPA/CARB or the United States/CARB to seek stipulated penalties.

18. Any stipulated penalties applicable to the original Submission, as provided in Section IX (Stipulated Penalties), shall accrue during the 45-Day period or such other time as the Parties agreed to in writing pursuant to Paragraph 16, but shall not be payable unless the resubmission of the original Submission is untimely or is disapproved in whole or in part; provided that, if EPA or the United States, in consultation with CARB, determines that the



original Submission was so deficient as to constitute a material breach of Cummins' obligations under this Consent Decree, the stipulated penalties applicable to the original submission shall be due and payable notwithstanding any subsequent resubmission. In the event that EPA or the United States seeks stipulated penalties under this Paragraph, upon request of Cummins, EPA or the United States will provide in writing the reasons for such a finding of material deficiency, if not already provided with the EPA/CARB or United States/CARB written decision.

## VI. COMPLIANCE REQUIREMENTS

### A. 2013-2019 RAM Compliance.

#### 19. Establishment and Maintenance of an Emission Modification Program and a Special Extended Warranty Program.

a. As described and provided by Paragraphs 20-27, Cummins shall establish and maintain, and shall cause its Business Partners to establish and maintain, a vehicle Emission Modification program for the 2013-2019 RAMs, which allows each Eligible Owner or Eligible Lessee to learn about the applicable Emission Modification for their Eligible Vehicle and arrange to have that Eligible Vehicle modified to operate with an Emission Modification (the "Emission Modification Program").

b. Cummins shall make the Emission Modification available, and shall cause its Business Partners to make the Emission Modifications available, to all Eligible Owners and Eligible Lessees at no cost. Cummins shall ensure, and shall cause its Business Partners to ensure, that no consumer payment or release of any Eligible Owner's or Eligible Lessee's rights or claims shall be required in exchange for performing the Emission Modification.

c. As a protective measure and an incentive for participation in the Emission Modification Programs, and as described and provided by Paragraph 26, Cummins shall establish and maintain, and shall cause its Business Partners to establish and maintain, a vehicle extended warranty program, which provides a specially tailored extended warranty for each Eligible Vehicle equipped to operate with an Emission Modification (the “Special Extended Warranty Programs”).

d. Cummins shall make the Special Extended Warranty available, and shall cause its Business Partners to make the Special Extended Warranty available, to all Eligible Owners and Eligible Lessees at no cost. Cummins shall ensure, and shall cause its Business Partners to ensure, that no consumer payment or release of any Eligible Owner’s or Eligible Lessee’s rights or claims shall be required in exchange for providing the Special Extended Warranty.

e. As described and provided by Paragraph 27, Cummins shall cause its Business Partners to ensure that information regarding the Emission Modification and Special Extended Warranty is made available online on a publicly available website that provides vehicle-specific information searchable by vehicle identification number (“VIN”).

f. The requirements outlined in this Paragraph shall continue in full force and effect after termination of the Consent Decree.

20. MY 2019 RAM Calibration Upgrade and Emissions Recall.

a. In February 2020, after consulting with EPA and CARB, Cummins caused its Business Partners to commence an emissions recall of MY 2019 RAMs to update their Pre-Replacement Software Configuration with an upgraded calibration that was designed

to achieve better emission performance (the “2019 Emission Modification”). Even before that emissions recall, Cummins had already begun equipping MY 2019 RAMs with the 2019 Emission Modification toward the end of the MY 2019 production run.

b. Cummins hereby certifies that the 2019 Emission Modification does not contain any Defeat Devices or Undisclosed AECDs.

c. In connection with the commencement of the emissions recall of MY 2019 RAMs, Cummins caused its Business Partners to send a Consumer Emission Modification Disclosure about the 2019 Emission Modification to affected Eligible Owners and Eligible Lessees.

d. By February 2022, Cummins informed EPA and CARB that the emissions recall of the MY 2019 RAMs had succeeded in replacing the original software calibration installed in those vehicles with the upgraded 2019 Emission Modification in: (i) more than 85% of the MY 2019 RAMs in the United States; and (ii) more than 94% of the MY 2019 RAMs in California.

e. Cummins shall ensure, and shall cause its Business Partners to ensure, that the 2019 Emission Modification will continue be offered to Eligible Owners and Eligible Lessees of MY 2019 RAMs and shall ensure that MY 2019 Eligible Vehicles will continue to be equipped with the 2019 Emission Modification.

21. MY 2013-2018 RAM Calibration Upgrade and Emissions Recall.

a. In November 2023, after consulting with EPA and CARB, Cummins commenced, and caused its Business Partners to commence, an emissions recall of MY 2013-2018 RAMs to update their Pre-Replacement Software Configurations with an

upgraded calibration that was designed to achieve better emission performance (the “2013-2018 Emission Modification”).

b. Cummins hereby certifies that the 2013-2018 Emission Modification does not contain any Defeat Devices or Undisclosed AECDs.

c. In connection with the commencement of the emissions recall of MY 2013-2018 RAMs, Cummins caused its Business Partners to send a Consumer Emission Modification Disclosure about the 2013-2018 Emission Modification to affected Eligible Owners and Eligible Lessees.

d. Cummins shall ensure, and shall cause its Business Partners to ensure, that the 2013-2018 Emission Modification will continue to be offered to Eligible Owners and Eligible Lessees of MY 2013-2018 RAMs and shall ensure that MY 2013-2018 Eligible Vehicles will continue to be equipped with the 2013-2018 Emission Modification.

22. General Terms and Conditions for Emission Modification Program.

a. Grounds for Refusal to Apply the Emission Modification to an Eligible Vehicle. If an Eligible Vehicle has been altered with the use of any after-market emissions-related components, parts, and/or software or the removal of any original emissions-related components, parts, and/or software, and such alteration(s) are likely to substantially affect the operation of the vehicle with the applicable Emission Modification or substantially impede installation of the Emission Modification, Cummins shall not be required (and Cummins shall not be required to cause its Business Partners) to install the Emission Modification on the Eligible Vehicle until the owner of such vehicle, at their expense, has reversed the alteration(s) such that the Emission Modification may be installed and not be substantially affected.

b. Scheduling. Cummins shall use commercially reasonable efforts, and shall cause its Business Partners to use commercially reasonable efforts, to install the applicable Emission Modification in a given Eligible Vehicle within 15 Days of the date on which an Eligible Owner or Eligible Lessee requests and schedules the modification. Cummins shall take reasonable steps, and Cummins shall cause its Business Partners to take reasonable steps, to ensure that no Eligible Owner or Eligible Lessee is required to wait more than 75 Days for a scheduled appointment to receive the Emission Modification after requesting an appointment.

23. Subsequent Emission Modification Adjustments to Subject Vehicles.

a. Prohibited Adjustments. After the Date of Lodging, Cummins shall not participate in any systematic campaign to adjust or modify the Emission Modification in 2013-2019 RAMs (including in any subset of the 2013-2019 RAMs) in a manner that may impair, decrease, or degrade the emission control performance of the vehicles' Emission Control System, or to install a configuration/calibration that contains a Defeat Device or an Undisclosed AECD, including through: (i) a recall pursuant to 40 C.F.R. Part 85, Subpart S, 40 C.F.R. § 85.1904, and/or 13 C.C.R. §§ 2111-2135; (ii) a Running Change and/or Field Fix; or (iii) any other systematic campaign to modify the Emission Modification.

b. Allowable Emission Modification Adjustments. After the Date of Lodging, Cummins may undertake or participate in systematic campaigns to adjust or modify the Emission Modification in 2013-2019 RAMs (including in any subset of the 2013-2019 RAMs) so long as the adjustments to the configuration/calibration will not impair, decrease, or degrade the emission control performance of the vehicles' Emission

Control System and do not contain a Defeat Device or an Undisclosed AECD (an “Allowable Emission Modification Adjustment”).

c. Pre-Adjustment Compliance and Certification Requirements. Before undertaking or participating in any systematic campaign to make an Allowable Emission Modification Adjustment, Cummins shall, as applicable: (i) comply with 40 C.F.R. Part 85, Subpart S, 40 C.F.R. § 85.1904, and/or CARB regulations, including 13 C.C.R. §§ 2111-2135, and, if applicable under the regulations, submit a recall report; or (ii) comply with applicable Running Change and/or Field Fix requirements; or (iii) comply with OBD requirements pursuant to 13 C.C.R. § 1968.5(d). In its initial written submission(s) required for compliance with the applicable requirements referenced in the preceding sentence, Cummins shall include a written explanation addressing why the adjustment or modification qualifies as an Allowable Emission Modification Adjustment — and why it does not constitute a Prohibited Adjustment — together with the required certification specified by Consent Decree Paragraph 50.

d. Modifications Approved by NHTSA.

(1) Notwithstanding Paragraphs 23.a and 23.b, Cummins may implement any modification to the 2013-2019 RAMs (including in any subset of the 2013-2019 RAMs) that has been reported to and approved by NHTSA either as a safety recall action or a voluntary campaign in accordance with 49 C.F.R. Part 573 (“Part 573 Report”).

(2) On the Day of submission to NHTSA of any Part 573 Report relevant to the 2013-2019 RAMs (including in any subset of the 2013-2019 RAMs), Cummins shall send written notification to EPA/CARB that Cummins

intends to implement a NHTSA modification and attach a copy of the Part 573 Report to the notification.

(3) No later than 90 Days after the submittal of the Part 573 Report to EPA/CARB, Cummins shall submit a follow-up notification to EPA/CARB that indicates whether the NHTSA-approved modification includes an Emission Control System- or OBD System-related calibration or hardware change to the 2013-2019 RAMs (including in any subset of the 2013-2019 RAMs). If the NHTSA-approved modification includes an Emission Control System- or OBD System-related calibration or hardware change to the vehicles, Cummins' follow-up notification to EPA/CARB shall also provide: (i) a description of the specific modifications, alterations, repairs, corrections, adjustments, or other changes to be made to the vehicles; and (ii) a description of the NHTSA-approved modification's expected influence on the performance or operation of the vehicles' Emission Control System and OBD System. For OBD-related modifications, Cummins' follow up notification shall also provide the information required by 13 C.C.R. § 1968.5(d). Cummins' follow up notification shall include the required certification specified by Consent Decree Paragraph 50.

(4) If EPA and CARB subsequently notify Cummins that the NHTSA-approved modification is non-compliant with regulatory requirements relating to environmental laws, Cummins shall, within 60 Days of such notification, either: (i) submit to EPA and CARB for review and approval a proposed plan and schedule for addressing the non-compliances identified by EPA and CARB (a "Response Plan"); or (ii) challenge EPA's and CARB's determination in

accordance with Section XI (Dispute Resolution). If Cummins believes that the non-compliances cannot be addressed without jeopardizing compliance with NHTSA requirements, Cummins shall set forth all the bases for this belief and submit a proposed Response Plan that provides for “no further action” to be taken to remedy the non-compliances identified by EPA and CARB.

(5) Upon receipt of written approval of a Response Plan by EPA and CARB, Cummins shall implement the Response Plan in accordance with the approved schedule. If EPA and CARB fail to make a determination within 60 Days of receipt of the Response Plan, Cummins may, at its discretion, consider the proposal to be denied for the purposes of invoking Dispute Resolution pursuant to Section XI (Dispute Resolution) of this Consent Decree.

24. Emission Modification Program Rate. Cummins shall ensure the installation of the 2013-2018 Emission Modification and the 2019 Emission Modification on the 2013-2019 RAMs, as applicable, to achieve Emission Modification Program Rates (“EMP Rates”) of at least 85% in the United States and in California by no later than three years after the Effective Date (the “EMP Rates Deadline”), as follows:

a. To assess Cummins’ progress toward and achievement of the EMP Rates for the 2013-2019 RAMs, Cummins shall receive credit for every Eligible Vehicle that has received the Emission Modification by the EMP Rates Deadline, excluding MY 2013-2015 RAM vehicles not equipped with a two-sensor SCR controller (the “Credited Vehicles”).

b. To assess Cummins’ progress toward and achievement of the EMP Rates for the 2013-2019 RAMs, the Parties have agreed to divide the number of Credited



Vehicles in the United States and California by agreed total baseline vehicle population figures for the United States and California, as indicated in Paragraphs 24.c and 24.d.

c. For the National EMP Rate. By no later than three years after the Effective Date, Cummins shall ensure installation of Emission Modifications to achieve a National EMP Rate of at least 85% for the 2013-2019 RAMs in the United States, computed as follows:

$$85\% = \frac{413,950}{487,000} \begin{array}{l} \text{(agreed minimum number of U.S. Credited Vehicles)} \\ \text{(divided by)} \\ \text{(agreed baseline total U.S. vehicles, reflecting estimated attrition)} \end{array}$$

d. For the California EMP Rate.

(1) By no later than three years after the Effective Date, Cummins shall achieve a California EMP Rate of at least 85% for the 2013-2019 MY RAMs in California, computed as the total number of Eligible Vehicles registered with the California Department of Motor Vehicles (“DMV”) on the third anniversary of the Effective Date and calculating 85% of those DMV-registered Eligible Vehicles, which is as follows:

$$85\% = \frac{\text{Total California Credited Vehicles}}{\text{Total DMV registered Eligible Vehicles three years from Effective Date, excluding ineligible vehicles in accordance with Paragraph 22.a}} \quad \text{(divided by)}$$

(2) For purposes of the denominator of the California EMP Rate, Eligible Vehicles shall include all MY 2013-2019 RAM vehicles except for:  
 (i) MY 2019 RAM vehicles originally equipped with MY 2019 RAM Software Calibration 3 with a production date after October 1, 2019; and (ii) MY 2013-

2015 RAM vehicles not equipped with a two-sensor SCR controller. Included or excluded vehicles shall be determined by reference to VIN.

25. Sale and Export Restrictions.

a. After the Date of Lodging, Cummins shall instruct its Business Partners not to: (i) sell or cause to be sold, resell or cause to be resold, lease or cause to be leased, import, or otherwise introduce into commerce, any 2013-2019 RAM, unless it has received the applicable Emission Modification; or (ii) export from the United States to another country, any 2013-2019 RAM, unless it has received the applicable Emission Modification and any subsequent emission-related recalls.

b. After the Date of Lodging, Cummins shall ensure, and shall cause its Business Partners to ensure, that Cummins and its Business Partners shall not: (i) sell or cause to be sold, resell or cause to be resold, lease or cause to be leased, introduce into commerce, any 2013-2019 RAM, unless the 2013-2019 RAM has received the applicable Emission Modification; or (ii) export from the United States to another country, any 2013-2019 RAM, unless the 2013-2019 RAM has received the applicable Emission Modification and any subsequent emission-related recalls.

26. Special Extended Warranty Program.

a. In General. Cummins shall establish and maintain, and shall cause its Business Partners to establish and maintain, a Special Extended Warranty Program that provides a Special Extended Warranty for each Eligible Vehicle that has received or receives an Emission Modification. Subject to standard limitations that must be disclosed to Eligible Owners and Eligible Lessees, which may set forth exclusions like accident, abuse, neglect, or installation of unexempted parts (as that term is described in 13 C.C.R.

§ 2038(h)), and applicable existing warranty provisions that will remain in effect, the Special Extended Warranty shall cover the costs of all parts and labor, including diagnosis of any illuminated OBD MIL, needed to repair the items listed in Appendix B.1 (for MY 2019 RAMs) and Appendix B.2 (for MY 2013-2018 RAMs), as well as the cost or provision of a loaner vehicle for warranty service lasting longer than three hours where such a loaner vehicle is available. Cummins shall ensure, and shall cause its Business Partners to ensure, that no fees or charges are imposed on customers, and Cummins shall pay any fees or charges imposed by Dealers related to the warranty service.

b. Special Extended Warranty Period and Beneficiaries. The warranty period for the Special Extended Warranty shall be the greater of: (i) ten years from date of initial sale or 120,000 miles on the odometer (whichever comes first); or (ii) four years or 48,000 miles from the date of installation of the applicable Emission Modification (whichever comes first) (the “Special Extended Warranty Period”). However, for any Subject Vehicle that receives the Approved Emission Modification after the Recall Target Deadline, the warranty period shall be as described in the previous sentence, but in no event shall the Special Extended Warranty apply to or provide any coverage for the Subject Vehicle after December 31, 2033. As specified by Paragraph 19.f and Paragraph 128, these Special Extended Warranty duration requirements shall continue in full force and effect after termination of the Consent Decree. The Special Extended Warranty shall be associated with the vehicle and shall remain available to all Eligible Owners and Eligible Lessees during the vehicle’s Special Extended Warranty Period.

c. Grounds for Denial of Special Extended Warranty Coverage. Special Extended Warranty coverage may be denied if an Eligible Vehicle has been altered with

the use of any after-market emissions-related components, parts, and/or software, or with the removal of any original emissions-related components, parts, and/or software, and such alteration(s) are likely to substantially affect the operation of the vehicle with the Emission Modification, until the owner of such vehicle, at their expense, has reversed the alteration(s) such that the Emission Modification will not be substantially affected.

d. Other Warranty-Related Terms and Conditions.

(1) The Special Extended Warranty shall not modify, limit, or affect any state, local, or federal legal rights available to the Eligible Owners or Eligible Lessees. The warranty shall be subject to any remedies provided by state or federal laws, such as the Magnuson-Moss Warranty Act, that provide consumers with protections, including without limitation “Lemon Law” protections, with respect to warranties.

(2) In no event shall warranty coverage under the Special Extended Warranty be subject to service writers’ discretion.

(3) Neither the Special Extended Warranty, nor installation of the Emission Modification, shall supersede or void any outstanding warranty. To the extent there is a conflict between any Special Extended Warranty or Emission Modification requirements and any other warranty on any 2013-2019 RAMs, that conflict shall be resolved to the benefit of the consumer, and Cummins shall give written notice of the resolution to EPA and CARB in the next semi-annual report.

27. Online Access to Information.

a. Cummins has caused its First-Tier Customer to make information regarding the 2013-2018 Emission Modification and the 2019 Emission Modification

available online on a publicly available website for RAM vehicles that provides vehicle-specific information searchable by VIN at <https://www.mopar.com/en-us/my-vehicle/recalls/search.html> (the “RAM Recall Website”). As of the Date of Lodging, the information about the 2013-2019 RAMs on the RAM Recall Website includes:

(i) vehicle-specific information about the availability of an Emission Modification; (ii) vehicle-specific status indication on whether or not the pertinent Emission Modification has been completed; and (iii) a viewable and downloadable copy of the pertinent Consumer Emission Modification Disclosures.

b. By no later than 30 Days after the Effective Date, Cummins shall ensure, and shall cause its First-Tier Customer to ensure, that the information about the 2013-2019 RAMs is updated on the RAM Recall Website to add vehicle-specific information concerning the availability and coverage of the Special Extended Warranty for the Eligible Vehicles.

c. For at least 10 years after the Effective Date, Cummins shall ensure, and shall cause its First-Tier Customer to ensure, that the information referenced in Paragraphs 27.a and 27.b of this Consent Decree continues to be maintained on the RAM Recall Website or in a similarly accessible format that shall be accessible free of charge to owners, lessees, and prospective purchasers. This requirement shall continue after termination of the Consent Decree, as provided by Paragraph 19.f.

B. 2019-2023 RAM Compliance

28. Current Configurations/Calibrations. Cummins hereby certifies that, as of the Date of Lodging, the 2019-2023 RAM Software Configurations/Calibrations do not contain any Defeat Devices or Undisclosed AECDS.

29. Subsequent Adjustments.

a. Prohibited Adjustments. After the Date of Lodging, Cummins shall not participate in any systematic campaign to adjust or modify the 2019-2023 RAM Software Configurations/Calibrations (including for any subset of the 2019-2023 RAMs) in a manner that may impair, decrease, or degrade the NO<sub>x</sub> control performance of the vehicles' Emission Control Systems, or to install a configuration/calibration that contains a Defeat Device or an Undisclosed AECD, including through: (i) a recall pursuant to 40 C.F.R. Part 85, Subpart S, 40 C.F.R. § 85.1904, and/or 13 C.C.R. §§ 2111-2135; (ii) a Running Change and/or Field Fix; or (iii) any other systematic campaign to modify the 2019-2023 RAM Software Configurations/Calibrations.

b. Modifications Approved by NHTSA. Notwithstanding Paragraph 29.a, Cummins may implement any modification to the 2019-2023 RAMs (including in any subset of the 2019-2023 RAMs) that has been reported to and approved by NHTSA either as a safety recall action or a voluntary campaign in accordance with a Part 573 Report, so long as the modification is implemented in a manner consistent with the requirements of Paragraph 23.d.

C. Enhanced Vehicle Testing

30. Emission Modification Enhanced In-Use Testing. In addition to any other compliance testing required by law, Cummins shall conduct Enhanced In-Use Testing that includes two rounds of In-Use Verification Testing and any required round of In-Use Confirmatory Program Testing of MY 2018 RAMs equipped with the 2013-2018 Emission Modification — including separate testing for vehicles in each MY 2018 RAM Test Group — as provided by this Paragraph.

a. Advance Notice to EPA and CARB. At least 15 Business Days before any planned Enhanced In-Use Testing, Cummins shall provide EPA and CARB written notice of the planned testing date and location. During the Enhanced In-Use Testing, Cummins shall afford EPA/CARB in-person access to the test facility upon request, as well as an opportunity for virtual observation upon request.

b. Testing Oversight. All Enhanced In-Use Testing required by this Paragraph shall be overseen and verified by representatives of the Cummins Product Compliance and Regulatory Affairs organization (“PCRA”).

c. Testing Timing and Requirements.

(1) Round 1 In-Use Verification Testing. Cummins shall complete a first round of scheduled In-Use Verification Testing within the seventh Calendar Quarter after the Consent Decree’s Effective Date, using high-mileage MY 2018 RAMs that have been in service for at least 12 months and driven for at least 10,000 miles since being equipped with the 2013-2018 Emission Modification. This In-Use Verification Testing shall conform to the substantive requirements for high-mileage manufacturer in-use verification testing specified by 40 C.F.R. § 86.1845-04.

(2) Round 2 In-Use Verification Testing. Cummins shall complete a second round of scheduled In-Use Verification Testing within the eleventh Calendar Quarter after the Consent Decree’s Effective Date, using high-mileage MY 2018 RAMs that have been in service for at least 24 months and driven for at least 20,000 miles since being equipped with the 2013-2018 Emission Modification. This In-Use Verification Testing shall conform to the substantive

requirements for high-mileage manufacturer in-use verification testing specified by 40 C.F.R. § 86.1845-04.

(3) In-Use Confirmatory Program Testing. If the results of a round of scheduled In-Use Verification Testing under Paragraph 30.c(1) or Paragraph 30.c(2) meet the criteria for additional in-use confirmatory testing specified by 40 C.F.R. § 86.1846-01(b), then Cummins shall complete a supplemental round of In-Use Confirmatory Program Testing that shall conform to the substantive and timing requirements for manufacturer in-use confirmatory testing specified by 40 C.F.R. § 86.1846-01 (“IUCP Testing”).

(4) For all In-Use Verification Testing and IUCP Testing performed under this Paragraph, Cummins shall provide EPA and CARB all downloads of all standardized OBD data, in accordance with 13 C.C.R. § 1968.2, of the tested vehicles. This data shall be collected both pre- and post-testing, on the as-received vehicles.

(5) If the results of any In-Use Verification Testing or IUCP Testing performed under this Paragraph exceed the applicable emission standard (after accounting for any applicable adjustment factors as described in Appendix G), Cummins shall formally notify EPA and CARB within 72 hours of the failure.

d. Reporting on Enhanced In-Use Testing. For all Enhanced In-Use Testing events completed under this Paragraph, Cummins shall submit to EPA and CARB all information specified by 40 C.F.R. § 86.1847-01 — together with an Enhanced In-Use Testing Report providing a narrative summary of the testing event results — in accordance with the timeframes specified by 40 C.F.R. § 86.1847-01. Cummins’



information submission and Enhanced In-Use Testing Report shall be made in accordance with Section XV (Notices and Submissions) and shall include the required certification specified by Consent Decree Paragraph 50.

e. Additional Actions and Reporting for IUCP Test Vehicle Failures.

(1) If one or more of the vehicles used for IUCP Testing under Paragraph 29.c(3) (“IUCP Test Vehicles”) failed to meet the applicable MY 2018 RAM Emission Standard during the IUCP Testing, then Cummins shall conduct a Root-Cause Evaluation to determine the reason(s) for the failure, and Cummins shall submit a Root-Cause Evaluation Report to EPA and CARB within 120 Days of the end of the IUCP Testing under Paragraph 29.c(3). As part of the Root-Cause Evaluation Report, Cummins shall analyze and report on whether the IUCP Test Vehicle’s emission test failure was due, in whole or part, to: (i) a failure of the Emission Modification; (ii) the lack of durability of the Emission Control System as modified by the Emission Modification; (iii) unrepresentative conditions unique to the IUCP Test Vehicle; (iv) other factors identified by Cummins; or (v) other possible factors proposed for further study by Cummins, which shall be analyzed in a supplemental Root-Cause Evaluation Report. Cummins’ Root-Cause Evaluation Report shall be made in accordance with Section IX and shall include the required certification specified by Consent Decree Paragraph 50.

(2) Noncompliance Determination. If, after considering a Root-Cause Evaluation Report submitted under Paragraph 30.e(1), EPA and CARB determine that one or more IUCP Test Vehicles failed the IUCP Testing due, in whole or in

part, to (i) a failure of the Emission Modification or (ii) the lack of durability of the Emission Control System as modified by the Emission Modification, then the agencies may issue a Noncompliance Determination if EPA and CARB determine that an issue that caused an IUCP Test Vehicle to fail the IUCP Testing is likely to occur in a substantial number of 2013-2018 RAMs or is likely to cause certain 2013-2018 RAMs to exceed applicable emission standards by substantial margins. If EPA and CARB issue a Noncompliance Determination, they will do so jointly and in writing, setting forth the factual, technical, and legal bases for their determination and addressing the recommendations and findings, if any, in Cummins' Root-Cause Evaluation Report(s).

(3) IUCP Failure Mitigation Plan. Within 90 Days after receipt of a Noncompliance Determination, Cummins shall submit an IUCP Failure Mitigation Plan proposing additional U.S. Mitigation Projects to offset the estimated excess emission from the 2013-2018 RAMs due to issues related to the Emission Modification that EPA/CARB identified in their Noncompliance Determination and a commensurate additional mitigation payment to CARB. The IUCP Mitigation Plan shall: (i) specify an estimated number of 2013-2018 RAMs (broken out by MY and between California and the United States) impacted by issues related to the Emission Modification that EPA/CARB identified in their Noncompliance Determination; (ii) the methodology used to estimate excess NOx emission from those impacted 2013-2018 RAMs; (iii) the additional U.S. Mitigation Projects that Cummins proposes to complete under Paragraph 43.b; and (iv) the methodology used to compute the proposed additional mitigation

payment to CARB. If EPA/CARB approve Cummins' IUCP Failure Mitigation Plan under Paragraph 14(i)-(iii), then Cummins shall implement the IUCP Mitigation Plan as approved by EPA/CARB.

31. Special Cycle Testing of Future Model Year Vehicles. As provided by this Paragraph, Cummins shall conduct dynamometer testing to demonstrate off-cycle tailpipe emissions and screen for undisclosed AECDs and/or Defeat Devices on MY 2026-2028 RAM 2500 and RAM 3500 Diesel-Fueled Vehicles equipped with engines manufactured by Cummins. The Parties agree and acknowledge that neither United States nor California law sets forth a standard by which off-cycle dynamometer testing can be used to determine compliance for purposes of certification under Title II of the Clean Air Act.

a. Advance Notice to EPA/CARB. At least 15 Business Days before any planned Special Cycle Testing, Cummins shall provide EPA/CARB written notice of the planned testing date and location. During the Special Cycle Testing, Cummins shall afford EPA/CARB in-person access to the test facility upon request, as well as an opportunity for virtual observation upon request.

b. Testing Oversight. All Special Cycle Testing required by this Paragraph shall be overseen by representatives of the Cummins Product Compliance and Regulatory Affairs organization.

c. Testing and Reporting Timing.

(1) Annual Precertification Testing for MY 2026-2028 RAM vehicles.

Cummins shall complete and report on annual Special Cycle Testing with MY 2026-2028 RAM vehicles before seeking vehicle emission certifications for the model year being tested. Through the data submissions and reports required by

Paragraph 31.f, Cummins shall report the results of such annual precertification Special Cycle Testing to the certification departments at EPA/CARB by no later than the date on which Cummins submits the Confirmation Test Decision Information (CTDI waiver request) for its emissions data vehicle(s).

(2) Retesting for Running Changes. If any Running Changes to powertrain controls software, powertrain hardware, or emissions control software are made to MY 2026-2028 RAM vehicles that may affect emissions performance, Cummins shall repeat Special Cycle Testing after making the Running Change, unless EPA/CARB grant Cummins a written waiver of this retesting requirement. Through the data submissions and reports required by Paragraph 31.f, Cummins shall report the results of the Running Change Special Cycle Testing to EPA/CARB by no later than 30 Days after the date of Cummins Running Change notification letter to EPA/CARB.

d. Vehicle Selection.

(1) For Annual Precertification Testing. Cummins shall conduct annual precertification Special Cycle Testing on one RAM vehicle from one Test Group per model year. After the first annual precertification test with one RAM vehicle from one MY 2026 Test Group, subsequent annual testing of later model year RAM vehicles shall utilize vehicles with different Test Group Suffixes until RAM vehicles with all Test Group Suffixes have been subjected to annual precertification Special Cycle Testing.

(2) For Retesting with Running Changes. For any Running Change to MY 2026-2028 RAMs, Cummins shall conduct Running Change Special Cycle

Testing on one RAM vehicle from the same Test Group used for the annual precertification Special Cycle Testing for the model year.

e. Special Cycle Testing. All Special Cycle Testing shall measure and record RAM vehicle emissions and other parameters listed in Paragraph 31.f throughout a dynamometer test cycle that approximates the operation of RAM vehicles on the LA Area Model Driving Route depicted and described in Appendix C. Consistent with the programming parameters included in Appendix C, the dynamometer shall be programmed to approximate the speed trace, road loads, and conditions during Portable Emissions Measurement System (“PEMS”) testing that Cummins completed with MY 2013-2018 RAMs on the LA Area Model Driving Route, and the dynamometer load shall be adjusted to appropriately account for varying road grades on the LA Area Model Driving Route.

(1) Vehicle Weight and Load. During each Special Cycle Test, the RAM vehicle shall begin with a full tank of fuel and the vehicle shall be weighted to simulate a vehicle load consisting of a driver, one passenger, and a PEMS unit.

(2) Preconditioning and Regeneration. Cummins shall perform a road load derivation and run one LA4 cycle prior to a Special Cycle Test. No other vehicle preconditioning shall be done before a Special Cycle Test. Cummins shall check the soot level on the diesel particulate filter before the test. If the soot level suggests that regeneration is imminent, Cummins may run the vehicle until the regeneration is complete. If a regeneration event occurs during a test, the data for that test session shall be discarded and the test session shall be repeated.

(3) Equipment. All Special Cycle Testing shall be conducted with use of a road speed fan and a four-wheel dynamometer.

(4) Test Conditions. All Special Cycle Testing shall be conducted at a standard ambient temperature between 68 and 86 degrees Fahrenheit. All Special Cycle Testing shall be done with the worst case emissions-related operating configuration for the RAM vehicle being tested (including but not limited to operation with the towing mode selector switch activated or any other worst case operating parameter Cummins deems appropriate).

f. Data Collection and Reporting. For each Special Cycle Testing event, Cummins shall collect the following data and information for submission to the certification departments at EPA/CARB:

(1) the test vehicle's Test Group code and the Cal ID and Calibration Verification Number codes that identify the calibration of the test vehicle's engine control module;

(2) industry standard span check traces and reports and other quality reports;

(3) a Flat File of each test that includes vehicle identification information, the VIN, and a test identification number;

(4) continuous concentration (expressed in parts per million) and mass (expressed in grams), as well as average emission rate (expressed in grams per mile), results generated for oxides of nitrogen (NO<sub>x</sub>), total hydrocarbons (THC), non-methane hydrocarbons (NMHC), carbon monoxide (CO), and carbon dioxide

(CO<sub>2</sub>) emissions in an unlocked .CSV file format that can be imported into a spreadsheet or database;

(5) all available OBDII parameters defined by SAE J1979/J1939, recorded by a nonproprietary OBD parameter recorder, also in an unlocked .CSV file format that can be imported into a spreadsheet or database;

(6) other parameters measured by the test site equipment, including continuous vehicle speed, air flow, and the test cell temperature in an unlocked .CSV file format that can be imported into a spreadsheet or database; and

(7) a processed analysis in Excel format with graphical presentation of distance, grade, vehicle speed, engine speed, exhaust gas recirculation flow, fuel flow, air flow, DEF dosing mass flow, and emission constituents (NO<sub>x</sub>, THC, CO, etc.), with all results plotted on a continuous timescale.

Within the time specified by Paragraph 31.c(1) or Paragraph 31.c(2) (as applicable), Cummins shall submit this information together with a Special Cycle Testing Report that contains a narrative summary of the Special Cycle Testing results. Cummins' information submission and Special Cycle Testing Report shall be made in accordance with Paragraph 49 and shall include the required certification specified by Consent Decree Paragraph 50.

D. Corporate Compliance.

32. Cummins shall implement the Corporate Compliance provisions of this Consent Decree in conjunction with its existing corporate and compliance management activities to advance the goals of:

- a. preventing environmental compliance problems related to United States or California environmental laws and regulations from arising in the first instance;
- b. detecting any environmental compliance problems related to United States or California environmental laws and regulations that do arise; and
- c. responding to any environmental compliance problems related to United States or California environmental laws and regulations that arise, including modifying broader policies, processes, controls or any other activities that allowed the environmental compliance problem to arise, and self-disclosing, as appropriate, to EPA, CARB, and the California Attorney General where disclosure should have occurred in the first instance.

To meet the goals of this Section VI.B (2013-2019 RAM Compliance), Cummins has designed and will implement the measures described in Paragraphs 33-38 to target compliance with United States and California laws and regulations, including those governing vehicle emissions and certification.

33. Cummins Corporate Policies and Practices.

- a. Cummins has developed and shall continue to implement and enhance various corporate governance policies and practices in the areas of integrity, business ethics, and environmental compliance. Cummins describes these policies and practices in its Code of Business Conduct, on its Ethics and Compliance Violations and Reporting webpage; on its Ethics and Compliance Non-Retaliation webpage; in its Supplier Code of Conduct policies; and in other written policies.
- b. Among its corporate compliance policies and practices, Cummins has developed and shall continue to implement and enhance policies and practices focused



particularly on compliance with air pollutant emissions related laws and regulations.

These include practices and written policies related to compliance with Diesel-Fueled Engine and Diesel-Fueled Vehicle emission control and certification requirements (“Diesel Compliance”) such as maintaining: (i) a Cummins Off-Cycle Emissions Policy; (ii) several Cummins Engineering Standards on the AECD development process and on compliance with emission certification requirements and defeat device prohibitions; and (iii) formal training programs for Cummins employees on compliance with emission certification requirements and defeat device prohibitions.

c. Over the last few years, Cummins has made significant enhancements to its corporate compliance policies and practices focused on Diesel Compliance. These recent enhancements have included: (i) adding a question to the Cummins Annual Ethics Certification regarding compliance with, or violations of, emissions laws or regulations or Cummins’ compliance policies, procedures, or work instructions, including the prohibition against defeat devices; (ii) adding a section on emissions compliance to the Cummins Code of Business Conduct which highlights Cummins’ Off-Cycle Emissions Policy specifically; and (iii) assessing its compliance program.

34. Based on its assessment, Cummins has taken the following steps to reform and enhance its product emissions compliance programs, and Cummins shall maintain these measures as a requirement of this Consent Decree:

a. Separation of Functions and Establishment of a Product Compliance and Regulatory Affairs Component. Cummins has established and shall maintain a separation of work functions between its product development business components and its PCRA component, which was formed in 2020. Cummins’ PCRA organization includes a large

staff of dedicated global employees and Cummins shall continue to maintain an adequate staffing level for its PCRA organization. For Diesel Compliance matters, the head of the Cummins' PCRA organization currently reports, and shall continue to report, directly to Cummins' Chief Executive Officer or to another Cummins Executive Officer.

b. Enhanced Product Development Compliance Review Procedures.

Cummins has established and shall maintain certain enhanced internal review and consultation procedures that elevate compliance considerations in Cummins' internal product development processes for Diesel Compliance. These procedures include:

- (i) mandatory navigation of a formal engine product development process that requires PCRA compliance approvals at multiple steps in the product development process; and
- (ii) key decision making on product design acceptability/compliance by a multi-member Cummins AECD Technical Advisory Council.

c. Enhanced Employee Training and Certification. Cummins has established and shall maintain specific PCRA-managed programs for enhanced training and certification of employees with responsibility for product development, certification, and Diesel Compliance. These programs include: (i) mandatory Defeat Device Awareness & Prevention Training that designated employees receive on a two year refresher cycle; (ii) Emission Control Features Analysis Training that designated employees receive on a two year refresher cycle; (iii) periodic AECD Workshop training sessions led by Diesel Compliance experts; and (iv) a Cummins Emissions Academy training program with a dedicated training team, monthly instructor-led training programs, and dozens of specially tailored training modules for company employees.

d. Enhanced Internal Communications. Cummins has established and shall maintain enhanced internal communications measures focused on product compliance and regulatory affairs for Diesel Compliance. These measures include: (i) operation of a web-based and phone-based confidential ethics hotline; (ii) an annual ethics certification process for employees; (iii) periodic “town hall” style employee meetings with members of the PCRA organization; and (iv) periodic “Ask Us Anything” employee question and answer sessions hosted by the PCRA leadership team.

35. Employee Discipline and Compensation. Cummins shall continue to require employees to comply with environmental laws and regulations, including those governing Diesel Compliance. Upon discovery, receipt of a complaint, or other notice of potential non-compliance, Cummins shall review the matter and ensure appropriate remedial action is taken to prevent future similar incidents, such as discipline or termination, training or retraining, and disqualification of responsible employees for variable compensation or other discretionary compensation through application of company policy.

36. Ethics and Compliance Concern Reporting. Cummins shall continue to implement its existing web-based and phone-based ethics reporting systems as avenues to report environmental compliance issues, including Diesel Compliance issues. Those reporting systems shall continue to be centralized and available to all Cummins employees, and shall maintain the ability to report environmental compliance issues anonymously in the United States, and otherwise as permitted by local law. Cummins shall continue to prohibit retaliation against employees who raise concerns about adherence to, or who report violations of, environmental compliance requirements.

37. Compliance Risk Assessment. Cummins shall continue to perform annual and continual compliance risk assessment and compliance process evaluations for Diesel Compliance. Cummins shall implement any mitigation measures determined to address compliance risks and shall track completion of new mitigation measures for material risks, including risks related to compliance with U.S. and California laws and regulations governing Diesel-Fueled Engine and Diesel-Fueled Vehicle emissions and certification.

38. Verification and Control Requirements for Diesel Compliance. Commencing on the Date of Lodging and continuing thereafter, Cummins' PCRA shall oversee and ensure Cummins' compliance with the Defeat Device Verification, AECD Verification, Software Lifecycle Management Control, and Field Software Control requirements of this Paragraph 38 for each Diesel-Fueled Engine and each Diesel-Fueled Vehicle for which Cummins applies for a Certificate of Conformity or an Executive Order in California.

a. Defeat Device Verification. For each such Diesel-Fueled Engine or Diesel-Fueled Vehicle intended to be certified in the United States, Cummins shall perform a complete and accurate pre-certification verification that Cummins' final pre-certification software calibration does not include any Defeat Devices.

b. AECD Verification. For each such Diesel-Fueled Engine or Diesel-Fueled Vehicle intended to be certified in the United States, Cummins shall perform a complete and accurate pre-certification verification that the AECDs included in Cummins' final pre-certification software calibration match the AECDs identified in the final disclosure documentation to be submitted to EPA and CARB.

c. Software Lifecycle Management Control.

(1) Tracking and Recording of Certified Configuration(s). For each such Diesel-Fueled Engine or Diesel-Fueled Vehicle issued a Certificate of Conformity in the United States or an Executive Order in California, Cummins shall retain a complete and accurate record of its certified software configuration (as well as any changes to the certified software configuration) in a centralized database.

(2) Software Change Process. For any planned change to the previously certified software configuration for any such Diesel-Fueled Engine or Diesel-Fueled Vehicle issued a Certificate of Conformity in the United States or an Executive Order in California, Cummins shall perform a complete and accurate pre-verification that: (i) Cummins' changed software calibration does not include any Defeat Devices; and (ii) the AECs included in Cummins' changed software calibration match the AECs identified in the corresponding disclosure documentation to be submitted to EPA and CARB. As part of that pre-verification, Cummins shall perform a dataset check of all emissions-relevant software functions which compares the software datasets before and after the planned change to ensure that any planned change is accurately described in the disclosure documentation to be submitted to EPA and CARB.

d. Field Software Control. Within each 12-month period after the Effective Date, Cummins shall randomly select and conduct sample checks of the software configurations of calibrations in the emission control system of at least three Diesel-Fueled Vehicles certified in the United States to determine whether such software

configurations are consistent with the certified configuration of the vehicle or engine as reported to EPA and CARB (including any Field Fixes or Running Changes), and to confirm that any changes made by Cummins to the certified configuration were made in accordance with United States and California regulatory requirements, as applicable.

## VII. MITIGATION

39. U.S. Mitigation Program. As set forth in Paragraphs 39-44, Cummins shall fully mitigate the total lifetime excess NOx emissions from 2013-2019 RAMs in the United States, excluding California, by implementing a program to reduce emissions from older locomotives (“Mitigation Program”).

a. The Mitigation Program shall include a suite of Mitigation Projects as determined by Paragraphs 40-42 below. Cummins shall complete the Mitigation Program by no later than June 30, 2029.

b. If required by Paragraph 42, Cummins shall carry out additional Mitigation Projects that reduce NOx emissions as determined by Paragraphs 40-42.

40. Types of Mitigation Projects. The Mitigation Program shall include a mix of the following types of Mitigation Projects:

a. Road Switch Locomotive Repowering Projects. For a Road Switch Locomotive Repowering Project, Cummins shall fund in whole, or carry out at its own expense, the repowering of an unregulated, Tier 0, Tier 0+, or Tier 1 road switch locomotive of between 1,500 and 3,800 horsepower. For purposes of Paragraphs 40.a and 40.b, “repowering” means: (i) replacing the existing engines with engines certified to EPA Tier 4 or more stringent locomotive emission standards; and (ii) permanently

retiring the replaced engines. A Road Switch Locomotive Repowering Project shall utilize one of the following replacement engines:

(1) A Road Switch Locomotive Repowering Project may utilize an engine that was not produced by Cummins that is certified to EPA Tier 4 or more stringent locomotive emission standards.

(2) After June 30, 2024, a Road Switch Locomotive Repowering Project may utilize a model year 2024 Cummins QSK50 engine certified to EPA Tier 4 or more stringent locomotive emission standards. In the first Semi-Annual Report after the Effective Date, Cummins shall certify that any model year 2024 Cummins QSK50 engine to be installed in any United States-based locomotive after June 30, 2024, does not contain in the Emission Control System any:

(i) defeat devices, as defined by 40 C.F.R. § 1033.115(f); or (ii) undisclosed auxiliary emission control devices, as defined by 40 C.F.R. § 1033.901.

(3) A Road Switch Locomotive Repowering Project may utilize a model year 2025 or later Cummins engine certified to EPA Tier 4 or more stringent locomotive emission standards. Cummins hereby certifies that any model year 2025 or later Cummins Emissions Control System in the engine used for a Road Switch Locomotive Repowering Project shall not contain any:

(i) defeat devices, as defined by 40 C.F.R. § 1033.115(f); or (ii) undisclosed auxiliary emission control devices, as defined by 40 C.F.R. § 1033.901.

b. Yard Switch Locomotive Repowering Projects. For a Yard Switch Locomotive Repowering Project, Cummins shall fund in whole, or carry out at its own expense, the repowering of an unregulated, Tier 0, or Tier 0+ yard switch locomotive as

defined in 40 C.F.R. § 1033.901. A Yard Switch Locomotive Repowering Project shall utilize one of the following replacement engines:

(1) A Yard Switch Locomotive Repowering Project may utilize an engine that was not produced by Cummins that is certified to EPA Tier 4 or more stringent locomotive emission standards.

(2) After June 30, 2024, a Yard Switch Repowering Project may utilize a model year 2024 Cummins QST30 engine certified to EPA Tier 4 or more stringent locomotive emission standards. In the first Semi-Annual Report after the Effective Date, Cummins shall certify that any model year 2024 Cummins QST30 engine to be installed in any United States-based locomotive after June 30, 2024, does not contain in the Emission Control System any:

(i) defeat devices, as defined by 40 C.F.R. § 1033.115(f); or (ii) undisclosed auxiliary emission control devices, as defined by 40 C.F.R. § 1033.901.

(3) A Yard Switch Locomotive Repowering Project may utilize a model year 2025 or later Cummins engine certified to EPA Tier 4 or more stringent locomotive emission standards. Cummins hereby certifies that any model year 2025 or later Cummins Emissions Control System in the engine used for a Yard Switch Locomotive Repowering Project shall not contain any:

(i) defeat devices, as defined by 40 C.F.R. § 1033.115(f); or (ii) undisclosed auxiliary emission control devices, as defined by 40 C.F.R. § 1033.901.

c. Switch Locomotive Idle Reduction Projects. For a Switch Locomotive Idle Reduction Project, Cummins shall fund in whole, or carry out at its own expense, projects that result in reduced idling time and therefore reduced fuel usage and reduced



emissions of NO<sub>x</sub>, particulate matter, volatile organic compounds, and carbon dioxide from switch locomotives. A Switch Locomotive Idle Reduction Project may include:

- (i) outfitting a switch locomotive with automatic engine start/stop functionality;
- (ii) outfitting a switch locomotive with a battery powered auxiliary power unit;
- (iii) installing a fuel-fired or electric coolant heater system in a switch locomotive; or
- (iv) equipping a switch locomotive with a wayside power or shore system to supply electrical power in lieu of engine operation.

41. Mitigation Project Selection Criteria.

a. Project Types. The Mitigation Program shall consist of 14 Road Switch Locomotive Repowering Projects, 13 Yard Switch Locomotive Repowering Projects, and 50 Switch Locomotive Idle Reduction Projects. The number of Switch Locomotive Idle Reduction Projects shall be the number of switch locomotives that receive a Switch Locomotive Idle Reduction Project, even if a single switch locomotive receives multiple subcategory project types.

b. Geographic Diversity.

(1) In selecting Road Switch Locomotive Repowering Projects and Yard Switch Locomotive Repowering Projects, Cummins shall use reasonable best efforts to repower locomotives based in switchyards that are located in geographically diverse locations across the United States (excluding California), including at least one Yard Switch Locomotive Repowering Project located in each of the ten EPA regions.

(2) In selecting Switch Locomotive Idle Reduction Projects, Cummins shall use reasonable best efforts to carry out projects in switchyards that are

located in geographically diverse locations across the United States (excluding California).

c. Target Locomotives. In selecting Road Switch Locomotive Repowering Projects and Yard Switch Locomotive Repowering Projects, Cummins: (i) shall prioritize and use reasonable best efforts to repower unregulated locomotives; and (ii) shall thereafter prioritize the repowering of Tier 0, Tier 0+, and Tier 1 locomotives (in that order of priority).

d. Electrification. In carrying out Road Switch Locomotive Repowering Projects and Yard Switch Locomotive Repowering Projects, Cummins shall evaluate the potential to repower one or more unregulated, Tier 0, Tier 0+, or Tier 1 engines with electric locomotive motors. If Cummins chooses to carry out a Road Switch Locomotive Repowering Project or a Yard Switch Locomotive Repowering Project by replacing the existing engine with an electric motor, Cummins shall propose to the United States, for review and approval in accordance with Section V (Approval of Submissions), an appropriate NOx emissions reduction credit for that project.

42. Status Report and Proposals to Change Mix of Project Types.

a. By no later than two years after the Effective Date, Cummins shall submit to the United States a Mitigation Program Status Report that includes: (i) the number of Road Switch Locomotive Repowering Projects, Yard Switch Locomotive Repowering Projects, and Switch Locomotive Idle Reduction Projects carried out or in progress; (ii) the results of Cummins' evaluation of the potential to repower one or more unregulated, Tier 0, Tier 0+, or Tier 1 engines with electric locomotive motors pursuant

to Paragraph 41.d; and (iii) the expected total NO<sub>x</sub> emission reductions from the mix of Mitigation Project types specified in Paragraph 41.a.

b. As part of the Mitigation Program Status Report, or at any point prior to submission of the Mitigation Program Status Report, Cummins may propose a different mix of the Mitigation Project types identified in Paragraph 41.a (with quantities of Road Switch Locomotive Repowering Projects, Yard Switch Locomotive Repowering Projects, and Switch Locomotive Idle Reduction Projects that differ from those specified by Paragraph 41.a). Any such proposal shall include an estimate of the expected total NO<sub>x</sub> emission reductions from the different mix of Mitigation Project types proposed by Cummins. Any proposed mix of Road Switch Locomotive Repowering Projects, Yard Switch Locomotive Repowering Projects, and Switch Locomotive Idle Reduction Projects shall result in NO<sub>x</sub> emission reductions consistent with the expected total emission reductions from the mix of Mitigation Project types specified in Paragraph 41.a. Any Cummins proposal pursuant to this Paragraph shall be subject to review and approval by the United States in accordance with Section V (Approval of Submissions).

43. Additional Mitigation.

a. EMP Rate Shortfall Mitigation. If Cummins fails to achieve an 85 percent National EMP Rate by the date specified in Paragraph 24.c, Cummins shall perform additional Mitigation Projects that result in NO<sub>x</sub> emission reductions equal to or greater than the total excess NO<sub>x</sub> emissions from the National EMP Rate shortfall. If necessary, these additional Mitigation Projects shall be completed by no later than June 30, 2029. The requirements of this Paragraph are in addition to any stipulated penalties that may apply.

b. IUCP Failure Mitigation. Cummins shall perform additional Mitigation Projects as required by any IUCP Failure Mitigation Plan approved under Paragraph 30.e(3). The requirements of this Paragraph are in addition to any stipulated penalties that may apply.

44. Mitigation Program Certifications. With regard to the Mitigation Program, Cummins certifies the truth and accuracy of each of the following:

a. That, as of the date of executing this Consent Decree, Cummins is not required to perform or develop the Mitigation Program or any Mitigation Projects by any federal, state, or local law or regulation and is not required to perform or develop the Mitigation Program or any Mitigation Projects by agreement, grant, or as injunctive relief awarded in any other action in any forum;

b. That the Mitigation Program is not a Mitigation Program that Cummins was planning or intending to construct, perform, or implement other than in settlement of the claims resolved in this Consent Decree;

c. That Cummins has not received and will not receive credit for the Mitigation Program in any other enforcement action; and

d. That Cummins shall neither generate nor use any pollutant reductions from the Mitigation Program as netting reductions, pollutant offsets, or to apply for, obtain, trade, or sell any pollutant reduction credits.

45. California Mitigation Payment. Cummins has entered into a separate agreement with the California Plaintiffs, which is intended to fully mitigate the total lifetime excess NOx emissions from the 2013-2019 RAMs in California. That agreement is set forth in the separate

California Partial Consent Decree between Cummins and the California Plaintiffs that has been lodged contemporaneously with this Consent Decree.

### **VIII. REPORTING REQUIREMENTS**

46. Consent Decree Compliance Reports. Cummins shall submit reports documenting its compliance with the requirements of this Consent Decree in Semi-Annual Reports described by this Section and in certain other required reports referenced in other Sections of this Consent Decree.

47. Timing of Semi-Annual Reports. Unless otherwise specified in this Consent Decree, or the Parties otherwise agree in writing:

a. General Timing. For Semi-Annual Reports required under this Consent Decree, Cummins shall submit each Report within one month after the end of the applicable semi-annual reporting period (i.e., by January 31 for the reporting period from the preceding July to December and by July 31 for the reporting period from the preceding January to June).

b. Timing for First Semi-Annual Reports. If this Consent Decree's Effective Date is at least 45 Days before the end of a semi-annual period, Cummins' Semi-Annual Reports for the first partial reporting period shall be due by the last Day of the month following the end of that reporting period. For example, if the Effective Date is September 2, the first Reports shall be due on January 31 and shall cover the period from September 2 to December 31. If this Consent Decree's Effective Date is less than 45 Days before the end of a semi-annual period, Cummins' first Semi-Annual Reports shall not be due until the last Day of the month following the end of the next semi-annual

period. For example, if the Effective Date is December 3, the first Reports shall be due on July 31 and shall cover the period from December 3 to June 30.

c. Continued Submission of Semi-Annual Reports. Cummins shall continue submitting Semi-Annual Reports under this Consent Decree until this Consent Decree is terminated in accordance with Section XIX (Termination).

48. Contents of Semi-Annual Reports. Cummins shall submit separate Semi-Annual Reports to the United States, EPA, CARB, and the California Attorney General that include the content specified in the subparagraphs below. An agency shall not receive the content of a subparagraph unless the agency is specifically identified in the subparagraph or the agency otherwise requests the content.

a. Emission Modification Program.

(1) *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a written description of any problems encountered in implementing the Emission Modification Program since the last semi-annual reporting period and any solutions taken or planned.

(2) *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a narrative description and quantitative assessment of whether Cummins met the National EMP Rate and the California EMP Rate for the 2013-2019 RAMs during the semi-annual reporting period (recognizing that the attainment of the California EMP Rate will only be determined after the third anniversary of the Effective Date).

(3) *To the United States, EPA, and CARB:* The Semi-Annual Report shall include an Excel data spreadsheet listing each Credited Vehicle (identified

by VIN and separated by vehicles located in California and those outside of California, within the United States) that counts toward achievement of the EMP Rates.

(4) *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a written description of any Subsequent Emission Modification Adjustments to Subject Vehicles under Paragraph 23 since the last semi-annual reporting period.

b. Sale and Export Restrictions. *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a written description of any systematic problems encountered in satisfying the sale and export restriction requirements imposed by Paragraph 25 since the last semi-annual reporting period and any solutions taken or planned.

c. Special Extended Warranty Program. *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a written description of any systematic problems encountered in implementing the Special Extended Warranty Program since the last semi-annual reporting period and any solutions taken or planned.

d. Online Access to Information. *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a written description of any systematic problems encountered in implementing the requirements regarding online access to information under Paragraph 27 since the last semi-annual reporting period and any solutions taken or planned.

e. Enhanced Vehicle Testing. *To the United States, EPA and CARB:* The Semi-Annual Report shall provide a narrative summary of any activities since the last

semi-annual reporting period relating to Emission Modification Enhanced In-Use Testing under Paragraph 30 and Special Cycle Testing under Paragraph 31, including a written description of any systematic problems encountered in implementing the Enhanced Vehicle Testing program since the last semi-annual reporting period and any solutions taken or planned. This is in addition to the submission of the Special Cycle Testing information to the certification departments at EPA/CARB, as described in Paragraph 31.f.

f. Corporate Compliance.

(1) *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a written description of any systematic problems encountered in implementing the Corporate Compliance measures outlined in Section VI.D (Corporate Compliance) since the last semi-annual reporting period and any solutions taken or planned.

(2) *To the United States, EPA, and CARB:* The Semi-Annual Report shall provide a written description of any major systematic changes in Cummins' approach to the Corporate Compliance measures outlined in Section VI.D (Corporate Compliance) since the last semi-annual reporting period.

g. U.S. Mitigation Projects. *To the United States and EPA:* The Semi-Annual Report shall provide a narrative summary of the Mitigation Projects in progress and completed under Section VII (Mitigation) by the end of the semi-annual reporting period. For each Mitigation Project, the Semi-Annual Report shall: (i) identify the Mitigation Project type and the expected NOx emissions reduction for the Mitigation Project, which may reference earlier provided estimates; and (ii) identify whether each



Mitigation Project is being or has been completed as part of the Mitigation Program under Paragraph 39.a or as an additional Mitigation Project under Paragraph 43.a or 43.b.

49. Submission Method. Cummins shall submit each Semi-Annual Report, including any relevant documentation, and each other report required by this Consent Decree to the specified agencies with copies (as required) sent to EPA, DOJ, and CARB by electronic mail transmitted to the e-mail addresses set forth Section XV (Notices and Submissions).

50. Required Certification.

a. Each written report submitted by Cummins under this Section shall be signed by an official of the submitting party and include the following certification:

I certify under penalty of perjury that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

b. Cummins agrees that the certification required by this Paragraph 50 is subject to 18 U.S.C. §§ 1001(a) and 1621 and California Penal Code §§ 115, 118, and 132.

c. This certification requirement does not apply to emergency or similar notifications where compliance would be impractical.

51. Special Reporting Requirements. Whenever Cummins reasonably believes any violation of this Consent Decree or any other event affecting Cummins' performance under this Consent Decree may pose an immediate threat to the public health or welfare or the environment,

Cummins shall notify EPA and CARB by telephone and email as soon as possible, but no later than 24 hours after Cummins first reasonably believes the violation or event may pose an immediate threat to the public health or welfare or the environment.

52. The reporting requirements of this Consent Decree do not relieve Cummins of any reporting obligations required by the Act or implementing regulations, or by any other federal, state, or local law, regulation, permit, or other requirement.

53. Any information provided pursuant to this Consent Decree may be used by the United States or California in any proceeding to enforce the provisions of this Consent Decree and as otherwise permitted by law, and consistent with Paragraph 107 (regarding protected or otherwise confidential information).

#### **IX. STIPULATED PENALTIES**

54. Cummins shall be liable for stipulated penalties to the United States and CARB for violations of this Consent Decree as specified in this Section, unless excused under Section X (Force Majeure). A violation includes failing to perform any obligation required by the terms of this Consent Decree, including any work plan or schedule approved under this Consent Decree, according to all applicable requirements of this Consent Decree and within the specified time schedules established by or approved under this Consent Decree.

##### **A. Civil Penalties.**

##### **55. Late Payment of Civil Penalty.**

a. If Cummins fails to pay the civil penalty required to be paid to the United States under Paragraph 8 when due, Cummins shall pay the United States a stipulated penalty of 0.10% of the unpaid principal amount due to the United States per Day for each Day that the payment is late.

b. If Cummins fails to pay the civil penalty required to be paid to CARB under Paragraph 8 when due, Cummins shall pay CARB a stipulated penalty of 0.10% of the unpaid principal amount due to CARB per Day for each Day that the payment is late.

B. 2013-2019 RAM Compliance and 2019-2023 RAM Compliance.

56. Continuation of Emission Modification Programs. If Cummins fails to ensure continuation of an Emission Modification Program for any Eligible Vehicle as required by Paragraphs 19.b, 19.e, 20.e, and 21.d, Cummins shall pay stipulated penalties for each Day on which the Emission Modification Program should have been offered and maintained (but was not) as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$4,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$10,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$20,000	31 <sup>st</sup> Day and beyond

57. Sale and Export Restrictions. Cummins shall pay stipulated penalties of \$25,000 per affected Subject Vehicle for any violation of the sale, leasing, and export restrictions specified by Paragraph 25.

58. Establishment and Maintenance of Special Extended Warranty Programs.

a. If Cummins fails to ensure the establishment and maintenance of a Special Extended Warranty Program as required by Paragraphs 19.c, 19.d, 19.e, and 26 (and Appendix B), Cummins shall pay stipulated penalties for each Day on which the Special Extended Warranty Program should have been offered and maintained (but was not) through termination of this Consent Decree under Section XIX (Termination), as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$4,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$10,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$20,000	31 <sup>st</sup> Day and beyond

b. In addition to paying these stipulated penalties, Cummins shall reimburse any affected Eligible Owner or Eligible Lessee any amount paid by the Eligible Owner or the Eligible Lessee to Cummins or its Business Partners because of a failure to honor a Special Extended Warranty.

59. Failure to Meet Emission Modification Program Rate Targets.

a. If Cummins fails to achieve an 85 percent National EMP Rate by the date specified in Paragraph 24.c, Cummins shall pay the United States a stipulated penalty of \$8,000,000 for each percentage point that the National EMP Rate falls short of 85 percent.

b. If Cummins fails to achieve an 85 percent California EMP Rate by the date specified in Paragraph 24.d, Cummins shall pay CARB a stipulated penalty of: \$2,550,000 for each percentage point that the California EMP Rate falls short of 85 percent.

In calculating any payment under this Paragraph 59, each Emission Modification Program Rate shall be rounded to the nearest percentage point. The calculated percentage should first be rounded to two significant digits to the right of the decimal point. Then: (i) if the fractional portion of the percentage is .50 or more, round up (so 83.50% rounds to 84%); and (ii) if the fractional portion of the percentage is .49 or below, round down (so 83.49% rounds to 83%).

60. Failure to Comply with Prohibition on Defeat Devices. Cummins shall pay a stipulated penalty of \$50,000,000 per Defeat Device (for each affected Test Group listed in

Appendix A, but not per vehicle) if any of the following software configurations/calibrations installed in Subject Vehicles contain a Defeat Device: (i) the 2019 Emission Modification; (ii) the 2013-2018 Emission Modification; (iii) any prohibited adjustment to the Emissions Modifications for the 2013-2019 RAM covered by Paragraph 23.a; and/or (iv) the 2019-2023 RAM Software Configurations/Calibrations (including any prohibited adjustment covered by Paragraph 29).

61. Failure to Disclose AECDs. Cummins shall pay a stipulated penalty of \$250,000 per Undisclosed AECD (for each affected Test Group listed in Appendix A, but not per vehicle) if any of the following software configurations/calibrations installed in Subject Vehicles contain an Undisclosed AECD: (i) the 2019 Emission Modification; (ii) the 2013-2018 Emission Modification; (iii) any prohibited adjustment to the Emission Modifications for the 2013-2019 RAM covered by Paragraph 23.a; and/or (iv) the 2013-2023 RAM Software Configurations/Calibrations (including any prohibited adjustment covered by Paragraph 29). Stipulated penalties shall not be assessed under this Paragraph for any calibration features identified in the Confidential Business Information attachment to the December 12, 2023, letter from Cummins to the United States Department of Justice and the California Department of Justice.

C. Enhanced Vehicle Testing.

62. Failure to Provide Advance Notice of Enhanced Vehicle Testing. If Cummins fails to give EPA/CARB advance notice of enhanced vehicle testing in accordance with Paragraph 30.a or Paragraph 31.a, Cummins shall pay stipulated penalties for each Day of noncompliance, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$2,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$3,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$10,000	31 <sup>st</sup> Day and beyond

63. Emission Modification Enhanced In-Use Testing. If Cummins fails to comply with the Enhanced In-Use Testing requirements under Paragraph 30, Cummins shall pay stipulated penalties for each Day of noncompliance, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$5,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$20,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$50,000	31 <sup>st</sup> Day and beyond

64. Failure to Comply with Emission Standards Based on Emission Modification Enhanced In-Use Testing.

(1) If EPA/CARB issue a Noncompliance Determination under Paragraph 30.e(2) and then EPA/CARB approve Cummins' IUCP Failure Mitigation Plan under Paragraph 14(i)-(iii) and Paragraph 30.e(3), then Cummins shall pay a stipulated penalty of \$25,000,000.

(2) If EPA/CARB issue a Noncompliance Determination under Paragraph 30.e(2) and then EPA/CARB disapprove Cummins' IUCP Failure Mitigation Plan under Paragraph 14(iv) and Paragraph 30.e(3), then Cummins shall pay a stipulated penalty of \$50,000,000.

65. Special Cycle Testing of Future Model Year Vehicles. If Cummins fails to complete any annual precertification Special Cycle Testing or any Running Change Special Cycle Testing as required by Paragraph 31, Cummins shall pay stipulated penalties for each affected Test Group for each Day of noncompliance, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$5,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$20,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$50,000	31 <sup>st</sup> Day and beyond

D. Corporate Compliance.

66. Separation of Functions. Cummins shall pay stipulated penalties per Day for each Day that Cummins fails to implement and maintain any requirement of Paragraph 34.a, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$2,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$10,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$50,000	31 <sup>st</sup> Day and beyond

67. Employee Discipline and Compensation. Cummins shall pay stipulated penalties per Day for each Day that Cummins fails to implement and maintain any requirement of Paragraph 35, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$1,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$2,500	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$10,000	31 <sup>st</sup> Day and beyond

68. Ethics and Compliance Concern Reporting. Cummins shall pay stipulated penalties per Day for each Day that Cummins fails to implement and maintain any requirement of Paragraph 36, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$1,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$2,500	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$10,000	31 <sup>st</sup> Day and beyond

69. Verification and Control Requirements for Diesel Compliance. Cummins shall pay stipulated penalties per Day for each Day that Cummins fails to implement and maintain any requirement of Paragraph 38, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$2,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$5,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$10,000	31 <sup>st</sup> Day and beyond

E. Mitigation.

70. Failure to Comply with Prohibition on Defeat Devices in Locomotive Engines. Cummins shall pay the United States a stipulated penalty of \$50,000,000 per defeat device (for each affected engine family, but not per locomotive) if the Emissions Control System for any of the following locomotive engines contains a defeat device, as defined by 40 C.F.R.

§ 1033.115(f): (i) any model year 2024 Cummins QST30 or QSK50 engine installed in any United States-based locomotive after June 30, 2024; and/or (ii) any model year 2025 or later Cummins engine used for a Repowering Project under Paragraph 40.a or 40.b.

71. Failure to Disclose AECDs in Locomotive Engines. Cummins shall pay the United States a stipulated penalty of \$250,000 per auxiliary emission control device (for each affected engine family, but not per locomotive) if the Emissions Control System for any of the following locomotive engines contains an auxiliary emission control device, as defined by 40 C.F.R. § 1033.901, not disclosed in the application for certification: (i) any model year 2024 Cummins QST30 or QSK50 engine installed in any United States-based locomotive after March 31, 2024; and/or (ii) any model year 2025 or later Cummins engine used for a Repowering Project under Paragraph 40.a or 40.b.



72. Failure to Complete U.S. Mitigation Projects. If Cummins fails to complete all Mitigation Projects required by Paragraphs 39-41 by the specified deadlines contained in Paragraph 39.a, Cummins shall pay the United States the following stipulated penalties per violation per Day:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$5,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$10,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$20,000	31 <sup>st</sup> Day and beyond

73. Failure to Complete Additional Mitigation Projects. If Cummins fails to complete additional Mitigation Projects in accordance with the required amounts and deadlines in Paragraphs 43.a or 43.b, Cummins shall pay the United States the following stipulated penalties per violation per Day:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$5,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$10,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$20,000	31 <sup>st</sup> Day and beyond

F. Reporting Requirements and Testing and Information Requests.

74. Reports and Required Information Submissions. If Cummins fails to submit a report or information as required by Paragraphs 23.d, 30.d or 31.f, or Section VIII (Reporting Requirements), Cummins shall pay stipulated penalties for each Day of noncompliance, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$2,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$5,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$10,000	31 <sup>st</sup> Day and beyond

75. Requests Concerning Testing and Requests for Information. If Cummins fails to provide EPA or CARB with test vehicles, equipment, software, or information covered by Paragraphs 103 or 104 within 45 Days of a request by EPA/CARB, Cummins shall pay stipulated penalties for each Day of noncompliance with the request, as follows:

<u>Penalty per Day</u>	<u>Period of Noncompliance</u>
\$2,000	1 <sup>st</sup> through 14 <sup>th</sup> Day
\$5,000	15 <sup>th</sup> through 30 <sup>th</sup> Day
\$10,000	31 <sup>st</sup> Day and beyond

76. Stipulated penalties under this Section shall begin to accrue on the Day after performance is due or on the Day a violation occurs, whichever is applicable, and shall continue to accrue until performance is satisfactorily completed or until the violation ceases. Stipulated penalties shall accrue simultaneously for separate violations of this Consent Decree.

77. The United States, in consultation with CARB, shall issue any demand for stipulated penalties in writing to Cummins. The written demand for payment of stipulated penalties shall specifically identify the violation.

78. Cummins shall pay any stipulated penalties to the United States and CARB, as applicable, within 30 Days of receiving the written demand. Cummins shall pay 75 percent of the total stipulated penalty amount due to the United States and 25 percent to CARB, except for: (i) violations of the civil penalty payment requirements of Paragraph 8, for which Cummins shall pay stipulated penalties as specified by Paragraph 55; (ii) violations of the Emission Modification Program Rate requirements of Paragraph 24, for which Cummins shall pay stipulated penalties as specified by Paragraph 59; and (iii) violations of U.S. Mitigation Program requirements covered by Paragraphs 70-73, for which Cummins shall pay the entire stipulated penalty amount to the United States.

79. Either the United States or CARB may in the unreviewable exercise of its discretion, reduce or waive stipulated penalties otherwise due it under this Consent Decree. However, no action by either the United States or CARB may reduce or waive stipulated penalties due the other.

80. Stipulated penalties shall continue to accrue as provided in Paragraph 76 during any Dispute Resolution, but need not be paid until the following:

a. If the dispute is resolved by agreement of the Parties or by a decision of EPA/CARB that is not appealed to the District Court, Cummins shall pay accrued penalties determined to be owing, together with interest, to the United States and CARB, as applicable, within 30 Days of the effective date of the agreement or the receipt of EPA's/CARB's decision or order.

b. If the dispute is appealed to the District Court and the United States/California prevail(s) in whole or in part, Cummins shall pay all accrued penalties determined by the Court to be owing, together with interest, within 60 Days of receiving the Court's decision or order, except as provided in Paragraph 80.c, below.

c. If any Party appeals the District Court's decision and the United States/California prevails(s) in whole or in part, Cummins shall pay all accrued penalties determined to be owing, together with interest, within 15 Days of receiving the final appellate court decision.

d. The interest payable under this Paragraph shall accrue from 30 Days after Cummins' receipt of the written demand for penalties through the date of payment. The interest shall be computed at the rate specified in 28 U.S.C. § 1961 as of the date falling 30 Days after Cummins' receipt of the written demand for penalties.

81. Obligations Prior to the Effective Date. Upon the Effective Date, the stipulated penalty provisions of this Consent Decree shall be retroactively enforceable with regard to any and all violations of requirements of this Consent Decree that have occurred from the Date of Lodging to the Effective Date, provided that stipulated penalties that may have accrued prior to the Effective Date may not be collected unless and until this Consent Decree is entered by the Court.

82. Cummins shall pay stipulated penalties owing to the United States in the manner set forth and with the confirmation notices required by Paragraph 9, except that the transmittal letter shall state that the payment is for stipulated penalties and shall state for which violation(s) the penalties are being paid.

83. Cummins shall pay stipulated penalties owing to CARB by check, accompanied by a Payment Transmittal Form (which CARB will provide to the addressee listed in Paragraph 119 after the Effective Date), with each check mailed to:

California Air Resources Board,  
Accounting Office  
P.O. Box 1436  
Sacramento, CA 95812-1436;

or by wire transfer, in which case Cummins shall use the following wire transfer information and send the Payment Transmittal Form to the above address prior to each wire transfer:

State of California Air Resources Board  
c/o Bank of America, Inter Branch to 0148  
Routing No. 0260-0959-3 Account No. 01482-80005  
Notice of Transfer: Accounting; Fax: (916) 322-9612.  
Reference: United States v. Cummins, CARB Case # C00261.

Cummins is responsible for any bank charges incurred for processing wire transfers. Stipulated penalties paid to CARB under this Consent Decree shall be deposited into the Air Pollution Control Fund for the purpose of enhancing CARB's mobile source emissions control program

through additional certification review, in-use evaluation, real-world testing, enforcement actions, and other CARB activities related to the control of air pollution.

84. If Cummins fails to pay stipulated penalties according to the terms of this Consent Decree, Cummins shall be liable for interest on such penalties, as provided for in 28 U.S.C. § 1961, accruing as of the date payment became due and continuing until payment has been made in full. Nothing in this Paragraph shall be construed to limit the United States or California from seeking any remedy otherwise provided by law for Cummins' failure to pay any stipulated penalties.

85. The payment of penalties and interest, if any, shall not alter in any way Cummins' obligation to complete the performance of the requirements of this Consent Decree.

86. Non-Exclusivity of Remedy. Stipulated penalties are not the United States' or California's exclusive remedy for violations of this Consent Decree, including violations of this Consent Decree that are also violations of law. Subject to the provisions of Section XIII (Effect of Settlement/Reservation of Rights), the United States and California expressly reserve the right to seek any other relief they deem appropriate for Cummins' violation of this Consent Decree or applicable law, including but not limited to an action against Cummins for statutory penalties, additional administrative or injunctive relief, mitigation or offset measures, and/or contempt. However, the amount of any statutory penalty assessed for a violation of this Consent Decree shall be reduced by an amount equal to the amount of any stipulated penalty assessed and paid pursuant to this Consent Decree (to the United States or to CARB, respectively).

#### **X. FORCE MAJEURE**

87. "Force majeure," for purposes of this Consent Decree, means any event arising from causes beyond the control of Cummins, of any entity controlled by Cummins, or of

Cummins' contractors or Business Partners, that delays or prevents the performance of any obligation under this Consent Decree despite Cummins' best efforts to fulfill the obligation. Given the need to protect public health and welfare and the environment, the requirement that Cummins exercise "best efforts to fulfill the obligation" includes using best efforts to anticipate any potential force majeure and best efforts to address the effects of any potential force majeure — as it is occurring and following the potential force majeure — such that any delay or non-performance is, and any adverse effects of the delay or non-performance are, minimized to the greatest extent possible. "Force majeure" does not include financial inability to perform any obligation under this Consent Decree.

88. If any event occurs for which Cummins will or may assert a claim of force majeure, Cummins shall provide initial notice to EPA/CARB by electronic mail transmitted to the e-mail addresses set forth Section XV (Notices and Submissions). The deadline for the initial notice is seven Days after Cummins first knew or should have known that the event would likely delay or prevent performance. Cummins shall be deemed to know of any circumstance of which any Business Partner of, contractor of, subcontractor of, or entity controlled by Cummins knew or should have known.

89. If Cummins seeks to assert a claim of force majeure concerning the event, within seven Days after the initial notice under Paragraph 88, Cummins shall submit a further notice to EPA/CARB by electronic mail transmitted to the e-mail addresses set forth Section XV (Notices and Submissions). That further notice shall include: (i) an explanation and description of the event and its effect on Cummins' completion of the requirements of the Consent Decree; (ii) a description and schedule of all actions taken or to be taken to prevent or minimize the delay and/or other adverse effects of the event; (iii) if applicable, the proposed extension of time for

Cummins to complete the requirements of the Consent Decree; (iv) Cummins' rationale for attributing such delay to a force majeure; (v) a statement as to whether, in the opinion of Cummins, such event may cause or contribute to an endangerment to public health or welfare or the environment; and (vi) all available proof supporting the claim that the delay was attributable to a force majeure.

90. Failure to submit a timely or complete notice or claim under Paragraph 88 or 89 regarding an event precludes Cummins from asserting any claim of force majeure regarding that event.

91. If EPA/CARB agree that the delay or anticipated delay is attributable to a force majeure event, the time for performance of the obligations under this Consent Decree that are affected by the force majeure event will be extended by EPA/CARB for such time as is necessary to complete those obligations. An extension of the time for performance of the obligations affected by the force majeure event shall not, of itself, extend the time for performance of any other obligation. EPA/CARB will notify Cummins in writing of the length of the extension, if any, for performance of the obligations affected by the force majeure event.

92. If EPA/CARB do not agree that the delay or anticipated delay has been or will be caused by a force majeure event, EPA/CARB will notify Cummins in writing of that decision.

93. If Cummins elects to invoke the dispute resolution procedures set forth in Section XI (Dispute Resolution), it shall do so no later than 15 Days after receipt of EPA/CARB's notice. In any such proceeding, Cummins has the burden of proving that it is entitled to relief under Paragraph 87, that its proposed excuse or extension was or will be warranted under the circumstances, and that it complied with the requirements of Paragraphs 87-89. If Cummins carries this burden, the delay or non-performance at issue shall be deemed not

to be a violation by Cummins of the affected obligation of this Consent Decree identified to EPA/CARB and the Court.

## **XI. DISPUTE RESOLUTION**

94. Unless otherwise expressly provided for in this Consent Decree, the dispute resolution procedures of this Section shall be the exclusive mechanism to resolve disputes arising between the Parties under or with respect to this Consent Decree. Cummins' failure to seek resolution of a dispute under this Section concerning an issue of which it had notice and an opportunity to dispute under this Section prior to an action by the United States or CARB to enforce any obligation of Cummins arising under this Consent Decree precludes Cummins from raising any such issue as a defense to any such enforcement action.

95. Informal Dispute Resolution. Any dispute subject to Dispute Resolution under this Consent Decree shall first be the subject of informal negotiations. The dispute shall be considered to have arisen when Cummins sends the United States and CARB a written Notice of Dispute. Such Notice of Dispute shall state clearly the matter in dispute. The period of informal negotiations shall not exceed 20 Days from the date Cummins sent its Notice of Dispute, unless that period is modified by a written agreement of the Parties. If the Parties cannot resolve a dispute by informal negotiations, then the position advanced by the United States/CARB shall be considered binding unless, within 30 Days after the conclusion of the informal negotiation period, Cummins invokes formal dispute resolution procedures as set forth below.

96. Formal Dispute Resolution. Cummins shall invoke formal dispute resolution procedures, within the time period provided in the preceding Paragraph, by sending the United States/CARB a written Statement of Position regarding the matter in dispute. The Statement of



Position shall include, but need not be limited to, any factual data, analysis, or opinion supporting Cummins' position and any supporting documentation relied upon by Cummins.

97. The United States/CARB will send Cummins its/their Statement of Position within 45 Days of receipt of Cummins' Statement of Position. The United States'/CARB's Statement of Position shall include, but need not be limited to, any factual data, analysis, or opinion supporting that position and any supporting documentation relied upon by the United States/CARB. The United States'/CARB's Statement of Position is binding on Cummins, unless Cummins files a motion for judicial review of the dispute in accordance with the following Paragraph.

98. Judicial Dispute Resolution. Cummins may seek judicial review of the dispute by filing with the Court and serving on the United States/CARB a motion requesting judicial resolution of the dispute. The motion must be filed within 30 Days of receipt of the United States' Statement of Position pursuant to the preceding Paragraph. The motion may not raise any issue that Cummins did not raise in informal dispute resolution pursuant to Paragraph 96 unless the issue was first raised by the United States'/CARB's Statement of Position. The motion shall contain a written statement of Cummins' position on the matter in dispute, including any supporting factual data, analysis, opinion, or documentation, and shall set forth the relief requested and any schedule within which the dispute must be resolved for orderly implementation of the Consent Decree.

99. The United States/CARB shall respond to Cummins' motion within the time period allowed by the Local Rules of this Court. Cummins may file a reply memorandum, to the extent permitted by the Local Rules.

100. Standard of Review.

a. Disputes Concerning Matters Accorded Record Review. Except as otherwise provided in this Consent Decree, in any dispute brought pursuant to Paragraph 96 that pertains to:

(i) the adequacy or appropriateness of plans or procedures to implement plans, schedules, or any other item that requires approval by EPA/CARB under this Consent Decree;

(ii) the adequacy of the performance of work undertaken pursuant to this Consent Decree; and/or

(iii) all other disputes that are accorded review on the administrative record under applicable principles of administrative law.

Cummins shall have the burden of demonstrating, based on the administrative record, that the position of EPA/CARB is arbitrary and capricious or otherwise not in accordance with law based on the administrative record. For purposes of this Paragraph, EPA/CARB will maintain an administrative record of the dispute, which will contain all statements of position, including supporting documentation, submitted pursuant to this Section. Prior to the filing of any motion, the Parties may submit additional materials to be part of the administrative record pursuant to applicable principles of administrative law.

b. Other Disputes. Except as otherwise provided in this Consent Decree, in any other dispute brought pursuant to Paragraph 96, Cummins shall bear the burden of demonstrating by a preponderance of the evidence that its position complies with this Consent Decree.

101. In any disputes brought under this Section, it is hereby expressly acknowledged and agreed that this Consent Decree was jointly drafted in good faith by the United States, California, and Cummins. Accordingly, the Parties hereby agree that any and all rules of construction to the effect that ambiguity is construed against the drafting party shall be inapplicable in any dispute concerning the terms, meaning, or interpretation of this Consent Decree.

102. The invocation of dispute resolution procedures under this Section shall not, by itself, extend, postpone, or affect in any way any obligation of Cummins under this Consent Decree, unless and until final resolution of the dispute so provides. Stipulated penalties with respect to the disputed matter shall continue to accrue from the first Day of noncompliance, but payment shall be stayed pending resolution of the dispute as provided in Paragraph 80. If Cummins does not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in Section IX (Stipulated Penalties).

## **XII. INFORMATION COLLECTION AND RETENTION**

103. Access to Information. The United States, CARB, and their representatives, including attorneys, contractors, and consultants (collectively, “Agency Representatives”), shall have the right of entry, upon presentation of credentials, at all reasonable times into any of Cummins’ offices, plants, or facilities:

- a. to monitor the progress of activities required under this Consent Decree;
- b. to verify any data or information submitted to the United States or CARB in accordance with the terms of this Consent Decree;

c. to conduct or observe testing related to this Consent Decree, whereupon a representative of Cummins shall be given the opportunity to accompany the Agency Representatives conducting any such testing;

d. to obtain documentary evidence, including photographs and similar data;

e. to assess Cummins' compliance with this Consent Decree; and/or

f. for other purposes as set forth in 42 U.S.C. § 7542(b) and Cal. Gov't Code § 11180 et seq.

104. Requests Concerning Testing. Upon request, and for purposes of evaluating compliance with this Consent Decree, Cummins shall, as soon as is reasonably practicable, provide EPA/CARB or agency representatives at locations to be designated by EPA/CARB:

a. a reasonable number of the Subject Vehicles and/or any MY 2025-2028 RAM 2500 and RAM 3500 Diesel-Fueled Vehicles for emissions testing;

b. specified software, hardware, and related documentation for Subject Vehicles of specified configurations and/or any MY 2025-2028 RAM 2500 and RAM 3500 Diesel-Fueled Vehicles of specified configurations, including any tools needed for testing; and/or

c. other items or information that could be requested pursuant to 42 U.S.C. § 7542(a) or Cal. Gov't Code § 11180 et seq.

105. Records Retention and Access to Records.

a. Until three years after the termination of this Consent Decree, Cummins shall retain, and shall instruct its contractors and agents to preserve, all Records in its or its contractors' or agents' possession or control, or that come into its or its contractors' or agents' possession or control, and that relate in any manner to Cummins' performance of

its obligations under this Consent Decree. The United States and CARB have an interest in these Records, which are necessary to their ability to oversee and assess Cummins' compliance with the terms of this Consent Decree resolving the United States' and CARB's allegations in their respective Complaints. These information-retention requirements shall apply regardless of any contrary corporate or institutional policies or procedures. Nothing in this Paragraph shall apply to any documents in the possession, custody, or control of any outside legal counsel retained by Cummins in connection with this Consent Decree or of any contractors or agents retained by such outside legal counsel solely to assist in the legal representation of Cummins.

b. At any time during the three-year information-retention period specified by Paragraph 105.a, upon request by the United States or CARB, Cummins shall provide the requesting agency representative copies of any Records required to be maintained under Paragraph 105.a.

106. Privileged or Protected Information. Cummins may assert that certain Records contain material that is privileged or protected as provided under federal or California law. If Cummins asserts such a privilege or protection, Cummins shall provide the requesting agency representative a redacted version of the Record and the following information, if it is not apparent in the redacted version of the Record: (i) the title of the Record; (ii) the date of the Record; (iii) the name and title of each author of the Record; (iv) the name and title of each addressee and recipient; (v) a description of the subject of the Record; and (vi) the privilege or protection asserted by Cummins. However, Cummins may make no claim of privilege or protection regarding: (i) any data regarding the Subject Vehicles that Cummins is required to

create or generate pursuant to this Consent Decree; or (ii) the final version of a portion of any record that Cummins is required to create or generate pursuant to this Consent Decree.

107. Confidential Business Information. Cummins may also assert that Records required to be provided under this Consent Decree are protected as Confidential Business Information (“CBI”) under 40 C.F.R. Part 2 or 17 C.C.R. §§ 91000 et seq. As to any Record that Cummins seeks to protect as CBI, Cummins and the United States and/or California, as applicable, shall follow the procedures set forth in 40 C.F.R. Part 2, and, for California, in 17 C.C.R. §§ 91000 et seq.

108. This Consent Decree in no way limits or affects any right of entry and inspection, or any right to obtain information, held by the United States or California pursuant to applicable federal or state laws, regulations, or permits, nor does it limit or affect any duty or obligation of Cummins to maintain Records imposed by applicable federal or state laws, regulations, or permits.

### **XIII. EFFECT OF SETTLEMENT/RESERVATION OF RIGHTS**

109. Effect of Settlement of Civil Claims of the United States. Subject to the reservations of rights in this Section XIII, this Consent Decree resolves only the civil claims of the United States for civil penalties and injunctive relief against Cummins through the Date of Lodging for: (i) the violations alleged in the U.S. Complaint; (ii) violations arising from or relating to the Pre-Replacement Software Configurations installed in the 2013-2019 RAMs; and (iii) violations arising from or relating to Cummins’ applications for a Certificate of Conformity for the Subject Vehicles and any information provided to EPA for the purpose of securing such certificates.

110. Effect of Settlement of Civil Claims of CARB. Subject to the reservations of rights in this Section XIII, this Consent Decree resolves only the civil claims of CARB for civil penalties and injunctive relief against Cummins through the Date of Lodging for: (i) the violations alleged in the California Complaint; (ii) violations arising from or relating to the Pre- Replacement Software Configurations installed in the 2013-2019 RAMs; and (iii) violations arising from or relating to Cummins' applications for an Executive Order for the Subject Vehicles and any information provided to CARB for the purpose of securing such Executive Orders.

111. Neither this Consent Decree nor Cummins' consent to its entry constitutes an admission by Cummins of violations alleged by EPA or CARB in the Complaints related to the Subject Vehicles. Cummins reserves all defenses and all rights and remedies, legal and equitable, available to it in any action by a non-party pertaining to the Act, or any other federal, state, or local statute, rule, or regulation.

112. Reservations of Rights by the United States and the California Plaintiffs.

a. The United States and the California Plaintiffs reserve all legal and equitable remedies available to enforce the provisions of this Consent Decree.

b. The United States further reserves any claim(s) of any agency of the United States other than EPA.

c. The California Plaintiffs further reserve, and this Consent Decree is without prejudice to, any and all civil claims, rights, and remedies against Cummins with respect to:

(1) further injunctive relief, including prohibitory and mandatory injunctive provisions intended to enjoin, prevent, and deter future misconduct,

and/or incentivize its detection, disclosure, and/or prosecution; or to enjoin false advertising, violation of environmental laws, violation of consumer laws, the making of false statements, or the use or employment of any practice that constitutes unfair competition;

(2) further injunctive relief pursuant to the California Health and Safety Code as alleged in the California Complaint to mitigate the total lifetime excess emissions in California from the Subject Vehicles, which injunctive relief is fully set forth in and resolved by the California Partial Consent Decree, lodged concurrently with this Consent Decree;

(3) any part of any claims for the violation of securities or false claims laws;

(4) any criminal liability;

(5) any and all other claim(s) of any officer or agency of the State of California other than CARB;

(6) any and all claims for relief to customers, including claims for restitution, refunds, rescission, damages, disgorgement;

(7) any and all claims of the California Attorney General; and

(8) any all claims held by individual consumers.

113. This Consent Decree shall not be construed to limit the rights of the United States or the California Plaintiffs to obtain penalties or injunctive relief under the Act or implementing regulations, or under other federal or state laws, regulations, or permit conditions, except as expressly specified in Paragraphs 109-110. The United States and the California Plaintiffs further reserve all legal and equitable remedies to address any conditions if there is or may be an



imminent and substantial endangerment to the public health or welfare or the environment arising at any of Cummins' facilities, or posed by Subject Vehicles, whether related to the violations addressed in this Consent Decree or otherwise. This Consent Decree does not impair the California Attorney General's right to seek relief for the claims alleged in the California Complaint or other violations of applicable law. However, the California Partial Consent Decree resolves the remaining claims in the California Complaint, including the claims brought by the California Attorney General.

114. In any subsequent administrative or judicial proceeding initiated by the United States or the California Plaintiffs for injunctive relief, civil penalties, other appropriate relief relating to any alleged violations by Cummins, Cummins shall not assert, and may not maintain, any defense or claim based upon the principles of waiver, claim preclusion (*res judicata*), issue preclusion (*collateral estoppel*), claim-splitting, or other defenses based upon any contention that the claims raised by the United States or the California Plaintiffs in the subsequent proceeding were or should have been brought in the instant case, except with respect to claims that have been specifically resolved pursuant to Paragraphs 109-110.

115. This Consent Decree is not a permit, or a modification of any permit, under any federal, State, or local laws or regulations. Cummins is responsible for achieving and maintaining complete compliance with all applicable federal, state, and local laws, regulations, and permits; and Cummins' compliance with this Consent Decree shall be no defense to any action commenced pursuant to any such laws, regulations, or permits, except as set forth herein. The United States and the California Plaintiffs do not, by their consent to the entry of this Consent Decree, warrant or aver in any manner that Cummins' compliance with any aspect of

this Consent Decree will result in compliance with provisions of the Act or with any other provisions of federal, state, or local laws, regulations, or permits.

116. This Consent Decree does not limit or affect the rights of Cummins or of the United States or the California Plaintiffs against any third parties not party to this Consent Decree, nor does it limit or affect the rights of third parties not party to this Consent Decree against Cummins, except as otherwise provided by law.

117. This Consent Decree shall not be construed to create rights in, or grant any cause of action to, any third party not party to this Consent Decree.

#### **XIV. COSTS**

118. The Parties shall bear their own costs of this action, including attorneys' fees, subject to Paragraph 112.c(5), except that the United States and CARB shall be entitled to collect the costs (including attorneys' fees) incurred in any action necessary to collect any portion of the civil penalty or any stipulated penalties due under this Consent Decree but not paid by Cummins.

#### **XV. NOTICES AND SUBMISSIONS**

119. Unless otherwise specified in this Consent Decree, Materials shall be accompanied by a cover letter and submitted electronically as described below, unless such notices are unable to be uploaded to the CDX electronic system (in the case of EPA) or transmitted by email (in the case of any other party). For all Materials submitted to EPA, Cummins shall register for the CDX electronic system and upload such notices at [https://cdx.epa.gov/epa\\_home.asp](https://cdx.epa.gov/epa_home.asp). All Materials concerning enhanced vehicle testing submitted pursuant to Section VI.C (Enhanced Vehicle Testing) shall be submitted: (i) on an electronic data site hosted by Cummins that is accessible to the United States, EPA, CARB, and the California Attorney General at all times until 60 Days after termination of this Consent Decree, and from

which the United States, EPA, CARB, and the California Attorney General are able to download all data hosted on that site; and (ii) on a hard disk that must be mailed to the addresses specified below no later than the date that the next set of semi-annual reports are due after the relevant data has been uploaded to the data site, and an email specifying the method of mailing and tracking information shall be sent to the addresses below. If there is any discrepancy between the information submitted to the electronic data site and the information submitted on the hard disk, the information submitted to the data site shall control. Any Materials that cannot be uploaded to CDX or the Cummins-hosted electronic data site or transmitted via email or via a secure server shall be provided in writing via overnight mail (and if any attachment is voluminous, it shall be provided on a disk, hard drive, or other equivalent successor technology) to the addresses below:

<u>As to the United States:</u>	DOJ at the email, or if necessary, the mail addresses below <b>and</b> EPA (via CDX or the mail address below if CDX is not possible)
As to DOJ by email:	<a href="mailto:eescdcopy.enrd@usdoj.gov">eescdcopy.enrd@usdoj.gov</a> Re: DJ # 90-5-2-1-12300
As to DOJ by U.S. mail:	EES Case Management Unit Environment and Natural Resources Division U.S. Department of Justice P.O. Box 7611 Washington, DC 20044-7611 Re: DJ # 90-5-2-1-12300
As to DOJ by overnight mail:	4 Constitution Square 150 M Street, N. E. Suite 2.900 Washington, DC 20002 Re: DJ # 90-5-2-1-12300
As to EPA by email:	<a href="mailto:meisenbach.caitlin@epa.gov">meisenbach.caitlin@epa.gov</a>

As to EPA by U.S. mail:

Director, Air Enforcement Division  
1200 Pennsylvania Avenue, NW  
William J. Clinton South Building  
MC 2242A  
Washington, DC 20460

Materials regarding enhanced vehicle testing submitted pursuant to Paragraphs 30 and 31 shall be sent to OTAQ via hard drive at the following address:

Director, Compliance Division  
USEPA National Vehicle and Fuel Emissions Laboratory  
2565 Plymouth Road  
Ann Arbor, MI 48105

Submissions to OTAQ shall be labelled, "Attn: Joel Dalton" and "Time Sensitive"

As to California:

CARB and CA AG at the email or if necessary, mail addresses below, as applicable. All information should be submitted to CARB electronically without paper copies, where possible.

As to CARB by email:

CumminsCD@arb.ca.gov

As to CARB by mail:

Chief Counsel  
California Air Resources Board  
Legal Office  
1001 I Street  
Sacramento, CA 95814

As to CARB by telephone:

916-322-2884

As to CA AG by email:

Mike.Cayaban@doj.ca.gov  
Josh.Caplan@doj.ca.gov  
Natalie.Collins@doj.ca.gov  
Elizabeth.Song@doj.ca.gov  
Taylor.Wetzel@doj.ca.gov

As to CA AG by mail:

Mike Cayaban  
Supervising Deputy Attorney General  
Joshua Caplan  
Natalie Collins  
Deputy Attorneys General  
Natural Resources Law Section  
Office of the Attorney General  
600 West Broadway, Suite 1800  
San Diego, CA 92101

Elizabeth Song  
Taylor Wetzel  
Deputy Attorneys General  
Environment Section  
Office of the Attorney General  
300 S. Spring Street, Suite 1702  
Los Angeles, CA 90013

As to Cummins:

To Cummins at the email or if necessary, mail addresses below.

As to Cummins by email:

To be provided by Cummins

As to Cummins by mail:

Nicole Y. Lamb-Hale  
Vice President, Chief Legal Officer and Corporate Secretary

Jonathan Wood  
Vice President and Chief Technical Officer

301 E. Market Street  
Indianapolis, IN 46204

120. Any Party may, by written notice to the other Parties, change its designated Materials recipient or submission address provided in Paragraph 119.

121. Materials submitted pursuant to this Section shall be deemed submitted upon mailing or transmission by email, unless otherwise provided in this Consent Decree or by mutual agreement of the Parties in writing.

## **XVI. EFFECTIVE DATE**

122. The Effective Date of this Consent Decree shall be the date upon which this Consent Decree is entered by the Court or a motion to enter the Consent Decree is granted, whichever occurs first, as recorded on the Court's docket; provided, however, that Cummins hereby agrees that it shall be bound to perform duties under this Consent Decree scheduled to occur prior to the Effective Date and shall perform those duties pursuant to this Consent Decree. In the event the United States withdraws or withholds consent to this Consent Decree before entry, or the Court declines to enter the Consent Decree, then the preceding requirement to perform duties scheduled to occur before the Effective Date shall terminate.

## **XVII. RETENTION OF JURISDICTION**

123. The Court shall retain jurisdiction over this case, until termination of this Consent Decree, for the purpose of resolving disputes arising under this Consent Decree or entering orders modifying this Consent Decree, pursuant to Sections XI (Dispute Resolution) and XVIII (Modification), or effectuating or enforcing compliance with the terms of this Consent Decree.

## **XVIII. MODIFICATION**

124. The terms of this Consent Decree, including any attached appendices, may be modified only by a subsequent written agreement signed by all the Parties. Where the modification constitutes a material change to this Consent Decree, it shall be effective only upon approval by the Court.

125. The United States or CARB, as applicable, will file any non-material modifications with the Court. The following modifications will be considered non-material: (i) changes to the method of submission of Materials unless this Consent Decree originally mandated that a Material be made public and the proposed change involves changing that

method of submission to make it non-public; (ii) extensions of time not to exceed 90 Days at a time or 180 Days cumulatively; and (iii) corrections of scrivener's errors.

126. Any disputes concerning modification of this Consent Decree shall be resolved pursuant to Section XI (Dispute Resolution), provided, however, that, instead of the burdens of proof provided by Paragraph 100, the Party seeking the modification bears the burden of demonstrating that it is entitled to the requested modification in accordance with Federal Rule of Civil Procedure 60(b).

### **XIX. TERMINATION**

127. No earlier than five years after the Effective Date, after Cummins has completed the requirements of Section VI.A (2013-2019 RAM Compliance), Section VI.C (Enhanced Vehicle Testing), and Section VII (Mitigation); has demonstrated that it is in compliance with the requirements of Section VI.D (Corporate Compliance); has complied with all other requirements of this Consent Decree; and has paid the civil penalty and any accrued stipulated penalties as required by this Consent Decree, Cummins may serve upon the United States and CARB a request for termination, stating that Cummins has satisfied those requirements, together with all necessary supporting documentation. Cummins may serve such a request for termination notwithstanding specified requirements that shall continue after termination of the Consent Decree.

128. Following receipt by the United States and CARB of Cummins' request for termination, the Parties shall confer informally concerning the request and any disagreement that the Parties may have as to whether Cummins has satisfactorily complied with the requirements for termination of this Consent Decree. If the United States (after consultation with CARB) agrees that the Consent Decree may be terminated, the United States shall file a motion or a

stipulation and agreed order seeking entry of a Court order terminating the Decree; provided, however, that: (i) the provisions associated with effectuating and enforcing Paragraph 25 (Sale and Export Restrictions) shall continue in full force and effect for ten years from the Effective Date; and (ii) the provisions associated with effectuating and enforcing Paragraph 19 (Establishment and Maintenance of an Emission Modification Program and a Special Extended Warranty Program.) shall continue in full force and effect until those provisions terminate by their own terms.

129. If the United States (after consultation with CARB) does not agree that this Consent Decree may be terminated, Cummins may invoke Dispute Resolution under Section XI. However, Cummins shall not seek Dispute Resolution of any dispute regarding termination until at least 90 Days after service of its request for termination.

## **XX. PUBLIC PARTICIPATION**

130. This Consent Decree shall be lodged with the Court for a period of not less than 30 Days for public notice and comment in accordance with 28 C.F.R. § 50.7. The United States reserves the right to withdraw or withhold its consent if the comments regarding this Consent Decree disclose facts or considerations indicating that this Consent Decree is inappropriate, improper, or inadequate. CARB reserves the right to withdraw or withhold its consent if the United States does so. Cummins consents to entry of this Consent Decree without further notice and agrees not to withdraw from or oppose entry of this Consent Decree by the Court or to challenge any provision of this Consent Decree, unless the United States has notified Cummins in writing that it no longer supports entry of this Consent Decree.



## **XXI. SIGNATORIES/SERVICE**

131. Each undersigned representative of Cummins, California, and the U.S. Department of Justice identified on the DOJ signature page below, certifies that that person is fully authorized to enter into the terms and conditions of this Consent Decree and to execute and legally bind the Party that person represents to this document.

132. This Consent Decree may be signed in counterparts, and its validity shall not be challenged on that basis. For purposes of this Consent Decree, a signature page that is transmitted electronically (e.g., by facsimile or emailed “PDF”) shall have the same effect as an original.

133. Cummins agrees to accept service of process by mail with respect to all matters arising under or relating to this Consent Decree and to waive the formal service requirements set forth in Rules 4 and 5 of the Federal Rules of Civil Procedure and any applicable Local Rules of this Court including, but not limited to, service of a summons. Cummins need not file an answer to the Complaint in this action unless or until the Court expressly declines to enter this Consent Decree.

## **XXII. INTEGRATION**

134. This Consent Decree constitutes the final, complete, and exclusive agreement and understanding among the Parties with respect to the settlement embodied in this Consent Decree and supersedes all prior agreements and understandings, whether oral or written, concerning the settlement embodied herein. Other than deliverables that are subsequently submitted and approved pursuant to this Consent Decree, the Parties acknowledge that there are no representations, agreements, or understandings relating to the settlement other than those expressly contained in this Consent Decree.

### **XXIII. 26 U.S.C. SECTION 162(f)(2)(A)(ii) IDENTIFICATION**

135. For purposes of the identification requirement in Section 162(f)(2)(A)(ii) of the Internal Revenue Code, 26 U.S.C. § 162(f)(2)(A)(ii), and 26 C.F.R. § 1.162-21(b)(2), performance by Cummins of Section II (Applicability), Paragraph 5, Section V (Approval of Submissions; U.S./EPA/CARB Decision-making), Paragraphs 15-17, Section VI (Compliance Requirements), Paragraphs 19-38 (excluding Paragraphs 20.b, 23.a, 28, and 29), Section VII (Mitigation), Paragraphs 39-43, 45, Section VIII (Reporting Requirements), Paragraphs 46-51, Section XII (Information Collection and Retention), Paragraphs 103-105, Section XV (Notices and Submissions), Paragraph 119, and the requirements of the documents identified and incorporated by Section XXV (Appendices), is restitution, remediation, or required to come into compliance with law.

### **XXIV. HEADINGS**

136. Headings to the Sections and Subsections of this Consent Decree are provided for convenience and do not affect the meaning or interpretation of the provisions of this Consent Decree.

### **XXV. APPENDICES**

137. The following Appendices are attached to and part of this Consent Decree:

Appendix A: Identification of Subject Vehicles and Subject Vehicle Sub-Categories

Appendix B: Special Extended Warranty Parts Lists

Appendix C: LA Area Model Driving Route and Dynamometer Programming  
for Special Cycle Testing

Appendix D: Adjustment Factors

**XXVI. FINAL JUDGMENT**

138. Upon approval and entry of this Consent Decree by the Court, this Consent Decree shall constitute a final judgment of the Court as to the United States, California, and Cummins. The Court therefore enters this judgment as a final judgment under Fed. R. Civ. P. 54 and 58.

Dated and entered this \_\_\_ day of \_\_\_\_\_, 20\_\_.


---

UNITED STATES DISTRICT JUDGE


Signature Page for Consent Decree in *United States v. Cummins Inc.* and  
*People of the State of California v Cummins Inc.* (D.D.C)

FOR THE UNITED STATES OF AMERICA:

1/9/2024  
Date

  
TODD KIM, D.C. Bar # 501200  
Assistant Attorney General  
Environment and Natural Resources Division  
U.S. Department of Justice

1/9/2024  
Date

  
NICHOLAS A. McDANIEL  
RANDALL M. STONE, D.C. Bar # 428003  
Attorneys  
Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
Washington, DC 20044-7611

Signature Page for Consent Decree in *United States v. Cummins, Inc.* and  
*People of the State of California v Cummins, Inc.* (D.D.C.)

FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY:

Date: \_\_\_\_\_

DAVID  
UHLMANN



Digitally signed by DAVID  
UHLMANN  
Date: 2024.01.04  
18:35:40 -05'00'

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DAVID M. UHLMANN  
Assistant Administrator  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency

ROSEMARIE KELLEY  
Office Director  
Office of Civil Enforcement  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency

MARY E. GREENE  
Division Director  
Air Enforcement Division  
Office of Civil Enforcement  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency

CAITLIN KELLEHER MEISENBACH  
Attorney-Advisor  
Air Enforcement Division  
Office of Civil Enforcement  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency

Signature Page for Consent Decree in *United States v. Cummins, Inc.* and  
*People of the State of California v Cummins, Inc.* (D.D.C)

FOR THE PEOPLE OF THE STATE OF CALIFORNIA BY AND THROUGH THE  
CALIFORNIA AIR RESOURCES BOARD:

Date: January 9, 2024



---

MICHAEL P. CAYABAN  
Supervising Deputy Attorney General  
JOSHUA M. CAPLAN  
NATALIE COLLINS  
Deputy Attorneys General  
California Department of Justice  
Office of the Attorney General  
600 West Broadway, Suite 1800  
San Diego, CA 92101

Signature Page for Consent Decree in *United States v. Cummins Inc.* and  
*People of the State of California v Cummins, Inc.* (D.D.C.)

FOR THE CALIFORNIA AIR RESOURCES BOARD:

Date: January 9, 2024



LIANE RANDOLPH  
Chair  
California Air Resources Board  
1001 I Street  
Sacramento, CA 95814



STEVEN S. CLIFF, PH.D.  
Executive Officer  
California Air Resources Board  
1001 I Street  
Sacramento, CA 95814




ELLEN M. PETER  
Chief Counsel  
SHANNON DILLEY  
Assistant Chief Counsel

Legal Office  
California Air Resources Board  
1001 I Street  
Sacramento, CA 95814

Signature Page for Consent Decree in *United States v. Cummins Inc.* and  
*People of the State of California v Cummins, Inc.* (D.D.C.)

FOR CUMMINS INC.:

\_\_\_\_\_  
Date

DocuSigned by:  
  
28040C6675754BD

\_\_\_\_\_  
NICOLE Y. LAMB-HALE  
Vice President, Chief Legal Officer and Corporate  
Secretary  
301 E. Market Street  
Indianapolis, IN 46204

\_\_\_\_\_  
Date

DocuSigned by:  
  
D20FEE7D2E944E3...

\_\_\_\_\_  
JONATHAN WOOD  
Vice President and Chief Technical Officer  
301 E. Market Street  
Indianapolis, IN 46204



## APPENDIX A

## Identification of Subject Vehicles and Subject Vehicle Sub-Categories

<u>MY</u>	<u>Vehicle</u>	<u>Test Group</u>	<u>Other Defining Criteria</u>	<u>Sub-Category</u>
2013	RAM 2500 & RAM 3500	DCEXD06.78VV		2013-2019 RAMs
2013	RAM 3500	DCEXD06.78WV		2013-2019 RAMs
2014	RAM 2500 & RAM 3500	ECEXD06.78VV		2013-2019 RAMs
2014	RAM 3500	ECEXD06.78WV		2013-2019 RAMs
2015	RAM 2500 & RAM 3500	FCEXD06.78VV		2013-2019 RAMs
2015	RAM 3500	FCEXD06.78WV		2013-2019 RAMs
2016	RAM 2500 & RAM 3500	GCEXD06.78VV		2013-2019 RAMs
2016	RAM 3500	GCEXD06.78WV		2013-2019 RAMs
2017	RAM 2500 & RAM 3500	HCEXD06.78VV		2013-2019 RAMs
2017	RAM 3500	HCEXD06.78WV		2013-2019 RAMs
2018	RAM 2500 & RAM 3500	JCEXD06.78VV		2013-2019 RAMs
2018	RAM 3500	JCEXD06.78WV		2013-2019 RAMs
2019	RAM 2500	KCEXD06.78VV	Software Calibration 1	2013-2019 RAMs
2019	RAM 3500	KCEXD06.78WV	Software Calibration 1	2013-2019 RAMs
2019	RAM 2500	KCEXD06.78VV	Software Calibration 3	2019-2023 RAMs
2019	RAM 3500	KCEXD06.78WV	Software Calibration 3	2019-2023 RAMs
2020	RAM 2500	LCEXD06.78VV		2019-2023 RAMs
2020	RAM 3500	LCEXD06.78WV		2019-2023 RAMs
2021	RAM 2500	MCEXD06.78VV		2019-2023 RAMs
2021	RAM 3500	MCEXD06.78WV		2019-2023 RAMs
2022	RAM 2500	NCEXD06.78VV		2019-2023 RAMs
2022	RAM 3500	NCEXD06.78WV		2019-2023 RAMs
2023	RAM 2500	PCEXD06.78VV	Vehicles with engines sold before 12/21/2022	2019-2023 RAMs
2023	RAM 3500	PCEXD06.78WV	Vehicles with engines sold before 12/21/2022	2019-2023 RAMs

## APPENDIX B.1

### Special Extended Warranty – MY19 RAM

Subject to standard limitations that must be identified to Eligible Owners and Eligible Lessees, which may set forth exclusions like accident, abuse, neglect, or installation of unexempted parts (as that term is described in 13 C.C.R. § 2038(h)), and applicable existing warranty provisions that will remain in effect, the Special Extended Warranty shall cover the cost of all parts and labor needed to repair the items listed below.

- Exhaust and Aftertreatment Components, including:
  - Catalysts
    - Diesel Oxidation Catalyst / Diesel Particulate Filter (DPF) Assembly
    - Selective Catalyst Reduction (SCR) Catalyst Assembly
    - Ammonia Oxidation Catalyst
  - Sensors
    - NOx Sensors (including Engine Out and System Out)
    - DPF Differential Pressure Sensor
- Diesel Exhaust Fluid (DEF) System, including:
  - DEF Injector
  - DEF Injector Controller
  - DEF Storage Tank
  - DEF Delivery Lines
  - DEF Quality Sensor
  - DEF Supply Module, Pump, & Temperature Sensor Unit
- Exhaust Gas Recirculation (EGR) System, including:
  - EGR Cooler
  - EGR Valve
  - EGR Temperature Sensors
  - EGR Cooler Bypass Valve and Actuator

Additionally, the Special Extended Warranty shall cover the cost of any OBD diagnostic scan for malfunctions that trigger the OBD malfunction indicator light (MIL), regardless of whether the malfunction is attributable to a part that is covered under the Special Extended Warranty.

In the event that the hardware of the SCR controller is damaged by the software flash during installation of the Approved Emission Modification, Defendants will replace the hardware at no cost to the customer and provide a 2-year “spare parts” warranty for the replaced part.

If any repairs, recalls, or service is performed on any of the subject vehicles to correct a problem discovered during, or as a result of, the Enhanced In-Use Testing, the Special Extended Warranty shall also cover all parts replaced or repaired, or all parts that could reasonably be impacted by the repair, recall, or service.

## APPENDIX B.2

### Special Extended Warranty – MY13-18 RAM

Subject to standard limitations that must be identified to Eligible Owners and Eligible Lessees, which may set forth exclusions like accident, abuse, neglect, or installation of unexempted parts (as that term is described in 13 C.C.R. § 2038(h)), and applicable existing warranty provisions that will remain in effect, the Special Extended Warranty shall cover the cost of all parts and labor needed to repair the items listed below.

- Exhaust and Aftertreatment Components, including:
  - Catalysts
    - Selective Catalyst Reduction (SCR) Catalyst Assembly
    - Ammonia Oxidation Catalyst
  - Sensors
    - NOx Sensors (including Engine Out and System Out)
- Diesel Exhaust Fluid (DEF) System, including:
  - DEF Injector
  - DEF Injector Controller
  - DEF Storage Tank
  - DEF Delivery Lines
  - DEF Quality Sensor
  - DEF Supply Module, Pump, & Temperature Sensor Unit

Additionally, the Special Extended Warranty shall cover the cost of any OBD diagnostic scan for malfunctions that trigger the OBD malfunction indicator light (MIL), regardless of whether the malfunction is attributable to a part that is covered under the Special Extended Warranty.

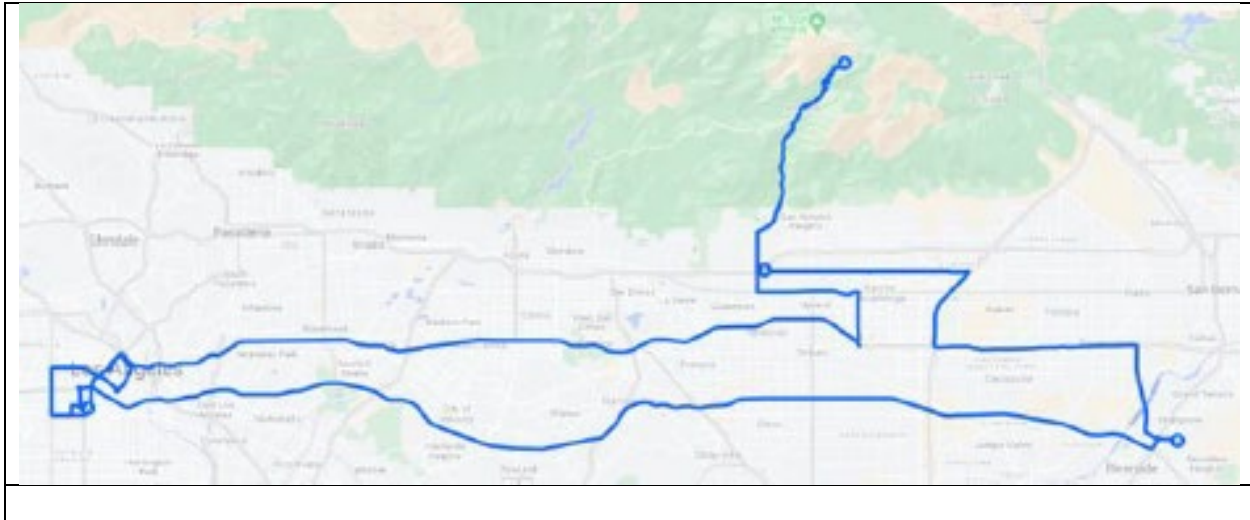
In the event that the hardware of the SCR controller is damaged by the software flash during installation of the Approved Emission Modification, Defendants will replace the hardware at no cost to the customer and provide a 2-year “spare parts” warranty for the replaced part.

If any repairs, recalls, or service is performed on any of the subject vehicles to correct a problem discovered during, or as a result of, the Enhanced In-Use Testing, the Special Extended Warranty shall also cover all parts replaced or repaired, or all parts that could reasonably be impacted by the repair, recall, or service.

## APPENDIX C

### LA Area Model Driving Route and Dynamometer Programming for Special Cycle Testing

The following “LA Area Modeling Driving Route” is used to program the dynamometer test cycle for special cycle testing pursuant to the Consent Decree.



**Summary:** Approximately 198 miles

**Departure: CECERT – 1084 Columbia Ave, Riverside, CA 92507, USA**

295 ft	Head north toward Columbia Ave
1.04 mi	Turn left onto Columbia Ave
423 ft	Turn right onto Primer St
118 ft	Turn right toward Interchange St
187 ft	Slight right onto Interchange St
0.26 mi	Merge onto I-215 S via the ramp on the left to Riverside
922 ft	Continue onto CA-91 W/State Rte 91 W (signs for Riverside/Beach Cities)
0.495 mi	Take exit 34C for CA-60 W toward Los Angeles
27.7 mi	Keep left and merge onto CA-60 W
0.382 mi	Keep right to continue on CA-57 S/CA-60 W
23.0 mi	Keep left at the fork to continue on CA-60 W, follow signs for Los Angeles
1.20 mi	Take exit 1A on the left toward Santa Monica
2.95 mi	Continue onto I-10 W
2.95 mi	Take the exit toward Hoover St 0.664 mi
531 ft	Turn right onto W 20th St
3927 ft	Turn right onto S Hoover St
359 ft	Turn right from Hoover onto 30th
1018 ft	Bear left on onto McKlintock Ave and continue to Jefferson Blvd
0.265 mi	Turn left onto W Jefferson Blvd
961 ft	Turn left onto S Figueroa St
410 ft	Turn right onto W 31st St
25 ft	Turn right onto Flower St

**End CECERT-LA**

890 ft	Continue on Flower St
0.803 mi	Turn right onto W Jefferson Blvd
0.503 mi	Turn left onto S Vermont Ave
0.991 mi	Turn right onto W Exposition Blvd
2.36 mi	Turn right onto S Western Ave
3.58 mi	Turn right onto W Olympic Blvd
472 ft	Turn right onto San Julian St
374 ft	Turn left onto E 11th St
1.25 mi	Turn left onto San Pedro St
837 ft	Continue onto Judge John Aiso St
0.551 mi	Turn left onto E Temple St
830 ft	Turn right onto N Grand Ave
128 ft	Turn left onto the ramp to CA-110
2.57 mi	Keep right at the fork, follow signs for I-110 S and merge onto CA-110
1.21 mi	Continue onto I-110 S

0.279 mi	Take exit 20B for Exposition Blvd
0.626 mi	Turn right onto W Exposition Blvd
0.626 mi	Turn right onto S Vermont Ave 0.491 mi
0.714 mi	Turn right onto W Jefferson Blvd
961 ft	Turn left onto S Figueroa St
410 ft	Turn right onto W 31st St
25 ft	Turn right onto Flower St
<b>End LA-LA</b>	
39 ft	Head southeast on W 31st St toward Flower St
890 ft	Continue on Flower St
0.803 mi	Turn right onto W Jefferson Blvd
0.503 mi	Turn left onto S Vermont Ave
0.991 mi	Turn right onto W Exposition Blvd
2.36 mi	Turn right onto S Western Ave
2.53 mi	Turn right onto W Olympic Blvd
722 mi	Turn left on Georgia St. It's from that street (not Wilshire) that we enter 110 N.
811 ft	Proceed onto the entrance ramp for CA-110 N/Harbor Fwy
1.06 mi	Merge onto CA-110 N/Harbor Fwy
2208 ft	Take exit 24A toward I-5 S/I-10 E
1.27 mi	Merge onto US-101 S
1.21 mi	Keep left at the fork to continue on San Bernardino Fwy, follow signs for I-10 E/San Bernardino
35.2 mi	Continue onto I-10 E/San Bernardino Fwy
1,204 ft	Take exit 54 for Vineyard Ave
2.55 mi	Turn left onto N Vineyard Ave
5.08 mi	Turn left onto W Foothill Blvd/Historic Rte 66 W, Continue to follow W Foothill Blvd
0.344 mi	Turn right onto Monte Vista Ave
0.669 mi	Continue straight to stay on Monte Vista Ave
0.342 mi	Turn right onto E Baseline Rd
272 ft	Turn left into parking lot (Sycamore Hills Plaza)
<b>End LA-Upland</b>	
256 ft	Return south through parking lot toward Base Line Rd
0.341 mi	Turn right onto Base Line Rd
1.79 mi	Turn right onto Padua Ave
9.97 mi	Turn right onto Mt Baldy Rd
1.85 mi	Turn right to stay on Mt Baldy Rd
<b>End Upland-Mt. Baldy</b>	
1.83 mi	Head southwest on Mt Baldy Rd toward Falls Rd
9.96 mi	Turn left to stay on Mt Baldy Rd
1.80 mi	Turn left onto Padua Ave
0.363 mi	Turn left onto E Baseline Rd
269 ft	Turn left into parking lot (Sycamore Hills Plaza)
<b>End Mt. Baldy-Upland</b>	
252 ft	Return south through parking lot toward Base Line Rd
0.664 mi	Turn left onto Base Line Rd
3.31 mi	Continue onto W 16th St
1.24 mi	Continue onto Base Line Rd
102 ft	Turn right toward Hellman Ave
282 ft	Turn right toward Hellman Ave
194 ft	Turn right onto Hellman Ave
4.90 mi	Turn right at the 1st cross street onto Base Line Rd
3.93 mi	Turn right to merge onto I-15 S toward San Diego
10.2 mi	Take exit 109B to merge onto I-10 E toward Indio/San Bernardino
0.330 mi	Take exit 68 for Riverside Ave toward Rialto
2.09 mi	Turn right onto S Riverside Ave; and stop at Agua Mansa Rd (for weight measurement)
1.35 mi	Continue on S Riverside Ave
0.870 mi	Continue onto Main St
1.72 mi	Turn left onto Columbia Ave
203 ft	Turn right into parking lot at CE-CERT
<b>End Upland-CECERT</b>	
<b>Arrival: CECERT – 1084 Columbia Ave, Riverside, CA 92507, USA</b>	

### **Dynamometer Programming for Special Cycle Testing**

The parties recognize that certain technical adjustments may be required to implement this special cycle test on the dynamometer, such as breaking the trace into segments, restarting individual segments, or soak procedures. Any such technical adjustments may be made by written agreement from certification department staff at EPA and CARB. Any agreed-to technical adjustments will not be considered a modification of the Consent Decree.







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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 625-702.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 703-780.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 781-858.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 859-936.









Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 2185-2262.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 2341-2418.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 2263-2340.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 2419-2496.







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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Data rows 3121-3198.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Data rows 3277-3354.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Data rows 3199-3276.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Data rows 3355-3432.



Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Data points for routes 3745 through 3822.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Data points for routes 3823 through 3900.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Data points for routes 3901 through 3978.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Data points for routes 3979 through 4056.





Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 4681-4758 showing data for CECCERT-LA route.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 4837-4914 showing data for IdletA-01 route.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 4759-4836 showing data for CECCERT-LA and IdletA-01 routes.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 4915-4992 showing data for IdletA-01 and LA-LA routes.





Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 5305 through 5382.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 5383 through 5460.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 5461 through 5538.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 5539 through 5616.









Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Data points range from 6865 to 6942.

Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Data points range from 6943 to 7020.

Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Data points range from 7021 to 7098.

Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Data points range from 7099 to 7176.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows range from 7177 to 7254.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows range from 7255 to 7332.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows range from 7333 to 7410.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows range from 7411 to 7488.



time [s]	route	speed [mph]	distance [mi]	grade [%]
7489	LA-LA	33.11	69.74	0.46
7490	LA-LA	34.38	69.75	0.46
7491	LA-LA	34.09	69.76	0.62
7492	LA-LA	23.83	69.77	0.62
7493	LA-LA	34.53	69.78	0.62
7494	LA-LA	34.53	69.79	0.62
7495	LA-LA	34.50	69.80	0.62
7496	LA-LA	33.78	69.81	0.62
7497	LA-LA	33.41	69.81	0.62
7498	LA-LA	32.71	69.82	0.62
7499	LA-LA	32.29	69.83	0.62
7500	LA-LA	33.18	69.84	0.62
7501	LA-LA	33.96	69.85	0.88
7502	LA-LA	33.43	69.86	0.88
7503	LA-LA	32.35	69.87	0.88
7504	LA-LA	30.29	69.88	0.88
7505	LA-LA	26.54	69.88	0.88
7506	LA-LA	22.61	69.89	0.88
7507	LA-LA	18.73	69.90	0.88
7508	LA-LA	14.70	69.90	0.88
7509	LA-LA	10.25	69.90	0.88
7510	LA-LA	5.89	69.90	0.88
7511	LA-LA	2.72	69.91	0.88
7512	LA-LA	0.37	69.91	0.88
7513	LA-LA	0.00	69.91	0.88
7514	LA-LA	0.00	69.91	0.88
7515	LA-LA	0.00	69.91	0.88
7516	LA-LA	0.00	69.91	0.88
7517	LA-LA	0.00	69.91	0.88
7518	LA-LA	0.00	69.91	0.88
7519	LA-LA	0.00	69.91	0.88
7520	LA-LA	0.00	69.91	0.88
7521	LA-LA	0.00	69.91	0.88
7522	LA-LA	0.00	69.91	0.88
7523	LA-LA	0.00	69.91	0.88
7524	LA-LA	0.00	69.91	0.88
7525	LA-LA	0.00	69.91	0.88
7526	LA-LA	0.00	69.91	0.88
7527	LA-LA	0.00	69.91	0.88
7528	LA-LA	0.00	69.91	0.88
7529	LA-LA	0.00	69.91	0.88
7530	LA-LA	0.00	69.91	0.88
7531	LA-LA	0.00	69.91	0.88
7532	LA-LA	0.00	69.91	0.88
7533	LA-LA	0.00	69.91	0.88
7534	LA-LA	0.00	69.91	0.88
7535	LA-LA	0.00	69.91	0.88
7536	LA-LA	0.00	69.91	0.88
7537	LA-LA	0.00	69.91	0.88
7538	LA-LA	0.00	69.91	0.88
7539	LA-LA	0.00	69.91	0.88
7540	LA-LA	0.00	69.91	0.88
7541	LA-LA	0.00	69.91	0.88
7542	LA-LA	0.00	69.91	0.88
7543	LA-LA	0.00	69.91	0.88
7544	LA-LA	0.00	69.91	0.88
7545	LA-LA	0.00	69.91	0.88
7546	LA-LA	0.00	69.91	0.88
7547	LA-LA	0.00	69.91	0.88
7548	LA-LA	0.00	69.91	0.88
7549	LA-LA	0.00	69.91	0.88
7550	LA-LA	0.00	69.91	0.88
7551	LA-LA	0.00	69.91	0.88
7552	LA-LA	0.00	69.91	0.88
7553	LA-LA	0.00	69.91	0.88
7554	LA-LA	0.00	69.91	0.88
7555	LA-LA	0.00	69.91	0.88
7556	LA-LA	0.00	69.91	0.88
7557	LA-LA	0.00	69.91	0.88
7558	LA-LA	0.00	69.91	0.88
7559	LA-LA	0.00	69.91	0.88
7560	LA-LA	0.00	69.91	0.88
7561	LA-LA	0.00	69.91	0.88
7562	LA-LA	0.00	69.91	0.88
7563	LA-LA	0.00	69.91	0.88
7564	LA-LA	0.00	69.91	0.88
7565	LA-LA	0.52	69.91	0.88
7566	LA-LA	5.02	69.91	0.88

time [s]	route	speed [mph]	distance [mi]	grade [%]
7645	LA-LA	0.00	70.16	1.97
7646	LA-LA	0.00	70.16	1.97
7647	LA-LA	0.00	70.16	1.97
7648	LA-LA	0.00	70.16	1.97
7649	LA-LA	0.00	70.16	1.97
7650	LA-LA	0.00	70.16	1.97
7651	LA-LA	0.00	70.16	1.97
7652	LA-LA	0.41	70.16	1.97
7653	LA-LA	0.27	70.16	1.97
7654	LA-LA	0.00	70.16	1.97
7655	LA-LA	0.00	70.16	1.97
7656	LA-LA	0.75	70.16	1.97
7657	LA-LA	5.95	70.16	1.97
7658	LA-LA	11.65	70.16	1.97
7659	LA-LA	15.75	70.17	1.97
7660	LA-LA	19.40	70.17	1.97
7661	LA-LA	23.35	70.18	1.97
7662	LA-LA	26.58	70.19	1.97
7663	LA-LA	28.74	70.20	1.97
7664	LA-LA	30.21	70.20	1.97
7665	LA-LA	31.17	70.21	1.97
7666	LA-LA	31.95	70.22	1.97
7667	LA-LA	32.57	70.23	1.97
7668	LA-LA	33.08	70.24	1.97
7669	LA-LA	34.10	70.25	1.97
7670	LA-LA	35.82	70.26	4.42
7671	LA-LA	38.62	70.27	4.42
7672	LA-LA	36.91	70.28	4.42
7673	LA-LA	36.69	70.29	4.42
7674	LA-LA	36.09	70.30	4.42
7675	LA-LA	35.61	70.31	4.42
7676	LA-LA	36.02	70.32	4.42
7677	LA-LA	37.27	70.33	4.42
7678	LA-LA	38.75	70.34	4.42
7679	LA-LA	39.58	70.35	4.42
7680	LA-LA	39.80	70.36	5.80
7681	LA-LA	38.66	70.37	5.80
7682	LA-LA	36.60	70.38	5.80
7683	LA-LA	33.75	70.39	5.80
7684	LA-LA	30.08	70.40	5.80
7685	LA-LA	27.82	70.41	5.80
7686	LA-LA	26.69	70.41	5.80
7687	LA-LA	24.66	70.42	5.80
7688	LA-LA	21.35	70.43	5.80
7689	LA-LA	18.08	70.43	5.80
7690	LA-LA	16.38	70.44	5.80
7691	LA-LA	16.66	70.44	5.80
7692	LA-LA	18.07	70.45	5.80
7693	LA-LA	19.53	70.45	4.45
7694	LA-LA	20.85	70.46	4.45
7695	LA-LA	22.15	70.46	4.45
7696	LA-LA	22.75	70.47	4.45
7697	LA-LA	22.80	70.48	4.45
7698	LA-LA	22.39	70.48	4.45
7699	LA-LA	23.41	70.49	4.45
7700	LA-LA	25.18	70.49	4.45
7701	LA-LA	26.81	70.50	4.45
7702	LA-LA	28.05	70.51	4.45
7703	LA-LA	29.59	70.52	4.45
7704	LA-LA	30.72	70.53	4.45
7705	LA-LA	31.34	70.54	4.45
7706	LA-LA	32.32	70.54	4.45
7707	LA-LA	32.62	70.55	4.23
7708	LA-LA	32.11	70.56	4.23
7709	LA-LA	30.62	70.57	4.23
7710	LA-LA	28.78	70.58	4.23
7711	LA-LA	27.12	70.59	4.23
7712	LA-LA	24.99	70.59	4.23
7713	LA-LA	21.61	70.60	4.23
7714	LA-LA	16.91	70.60	4.23
7715	LA-LA	11.82	70.61	4.23
7716	LA-LA	6.74	70.61	4.23
7717	LA-LA	3.16	70.61	4.23
7718	LA-LA	0.46	70.61	4.23
7719	LA-LA	0.00	70.61	4.23
7720	LA-LA	0.00	70.61	4.23
7721	LA-LA	0.00	70.61	4.23
7722	LA-LA	0.00	70.61	4.23

time [s]	route	speed [mph]	distance [mi]	grade [%]
7567	LA-LA	9.76	69.91	0.88
7568	LA-LA	13.36	69.91	0.88
7569	LA-LA	16.33	69.92	0.88
7570	LA-LA	19.61	69.92	0.88
7571	LA-LA	22.61	69.93	0.88
7572	LA-LA	23.53	69.94	0.88
7573	LA-LA	23.41	69.94	0.88
7574	LA-LA	24.63	69.95	0.88
7575	LA-LA	25.30	69.96	0.32
7576	LA-LA	27.06	69.96	0.32
7577	LA-LA	28.61	69.97	0.32
7578	LA-LA	30.98	69.98	0.32
7579	LA-LA	33.03	69.99	0.32
7580	LA-LA	34.75	70.00	0.32
7581	LA-LA	36.23	70.01	0.32
7582	LA-LA	37.27	70.02	0.32
7583	LA-LA	36.33	70.03	0.32
7584	LA-LA	35.54	70.04	0.32
7585	LA-LA	34.10	70.05	0.32
7586	LA-LA	31.46	70.06	0.57
7587	LA-LA	28.00	70.06	0.57
7588	LA-LA	24.29	70.07	0.57
7589	LA-LA	20.78	70.08	0.57
7590	LA-LA	18.42	70.08	0.57
7591	LA-LA	18.93	70.09	0.57
7592	LA-LA	21.20	70.09	0.57
7593	LA-LA	23.75	70.10	0.57
7594	LA-LA	26.09	70.11	0.57
7595	LA-LA	27.66	70.11	0.57
7596	LA-LA	27.68	70.12	0.57
7597	LA-LA	26.74	70.13	0.57
7598	LA-LA	24.34	70.14	0.57
7599	LA-LA	20.88	70.14	0.57
7600	LA-LA	17.32	70.15	0.57
7601	LA-LA	13.88	70.15	0.57
7602	LA-LA	11.26	70.15	1.97
7603	LA-LA	8.82	70.16	1.97
7604	LA-LA	6.05	70.16	1.97
7605	LA-LA	3.63	70.16	1.97
7606	LA-LA	1.33	70.16	1.97
7607	LA-LA	0.00	70.16	1.97
7608	LA-LA	0.00	70.16	1.97
7609	LA-LA	0.82	70.16	1.97
7610	LA-LA	0.42	70.16	1.97
7611	LA-LA	0.00	70.16	1.97
7612	LA-LA	0.00	70.16	1.97
7613	LA-LA	0.00	70.16	1.97
7614	LA-LA	0.00	70.16	1.97
7615	LA-LA	0.00	70.16	1.97
7616	LA-LA	0.00	70.16	1.97
7617	LA-LA	0.00	70.16	1.97
7618	LA-LA	0.00	70.16	1.97
7619	LA-LA	0.00	70.16	1.97
7620	LA-LA	0.00	70.16	1.97
7621	LA-LA	0.00	70.16	1.97
7622	LA-LA	0.00	70.16	1.97
7623	LA-LA	0.00	70.16	1.97
7624	LA-LA	0.00	70.16	1.97
7625	LA-LA	0.00	70.16	1.97
7626	LA-LA	0.00	70.16	1.97
7627	LA-LA	0.00	70.16	1.97
7628	LA-LA	0.00	70.16	1.97
7629	LA-LA	0.00	70.16	1.97
7630	LA-LA	0.00	70.16	1.97
7631	LA-LA	0.00	70.16	1.97
7632	LA-LA	0.00	70.16	1.97
7633	LA-LA	0.00	70.16	1.97
7634	LA-LA	0.00	70.16	1.97
7635	LA-LA	0.00	70.16	1.97
7636	LA-LA	0.00	70.16	1.97
7637	LA-LA	0.00	70.16	1.97
7638	LA-LA	0.00	70.16	1.97
7639	LA-LA	0.00	70.16	1.97
7640	LA-LA	0.00	70.16	1.97
7641	LA-LA	0.00	70.16	1.97
7642	LA-LA	0.00	70.16	1.97
7643	LA-LA	0.00	70.16	1.97
7644	LA-LA	0.00	70.16	1.97

time [s]	route	speed [mph]	distance [mi]	grade [%]
7723	LA-LA	0.00	70.61	4.23
7724	LA-LA	0.00	70.61	4.23
7725	LA-LA	0.00	70.61	4.23
7726	LA-LA	0.00	70.61	4.23
7727	LA-LA	0.00	7	

time (s)	route	speed (mph)	distance (mi)	grade (%)
7801	LA-LA	41.19	70.88	-2.69
7802	LA-LA	42.14	70.90	-2.69
7803	LA-LA	43.96	70.91	-2.69
7804	LA-LA	45.16	70.92	-2.69
7805	LA-LA	45.81	70.93	-2.69
7806	LA-LA	45.68	70.95	-2.69
7807	LA-LA	44.95	71.06	0.40
7808	LA-LA	44.11	70.97	0.40
7809	LA-LA	43.02	70.98	0.40
7810	LA-LA	42.14	70.99	0.40
7811	LA-LA	40.72	71.00	0.40
7812	LA-LA	38.30	71.01	0.40
7813	LA-LA	36.17	71.02	0.40
7814	LA-LA	35.06	71.03	0.40
7815	LA-LA	34.33	71.04	0.40
7816	LA-LA	34.50	71.05	-5.84
7817	LA-LA	35.60	71.06	-5.84
7818	LA-LA	35.15	71.07	-5.84
7819	LA-LA	34.54	71.08	-5.84
7820	LA-LA	34.81	71.09	-5.84
7821	LA-LA	35.28	71.10	-5.84
7822	LA-LA	35.78	71.11	-5.84
7823	LA-LA	36.16	71.12	-5.84
7824	LA-LA	35.75	71.13	-5.84
7825	LA-LA	35.90	71.14	-5.84
7826	LA-LA	34.14	71.15	2.90
7827	LA-LA	28.44	71.16	2.90
7828	LA-LA	23.13	71.16	2.90
7829	LA-LA	18.27	71.17	2.90
7830	LA-LA	14.95	71.17	2.90
7831	LA-LA	12.39	71.18	2.90
7832	LA-LA	10.40	71.18	2.90
7833	LA-LA	9.49	71.18	2.90
7834	LA-LA	9.43	71.18	2.90
7835	LA-LA	9.85	71.19	2.90
7836	LA-LA	9.83	71.19	2.90
7837	LA-LA	8.98	71.19	2.90
7838	LA-LA	8.29	71.20	2.90
7839	LA-LA	7.95	71.20	2.90
7840	LA-LA	8.07	71.20	2.90
7841	LA-LA	8.31	71.20	2.90
7842	LA-LA	7.78	71.20	2.90
7843	LA-LA	6.86	71.21	2.90
7844	LA-LA	6.07	71.21	2.90
7845	LA-LA	5.41	71.21	2.90
7846	LA-LA	5.05	71.21	2.90
7847	LA-LA	3.67	71.21	2.90
7848	LA-LA	2.11	71.21	2.90
7849	LA-LA	2.67	71.21	2.90
7850	LA-LA	4.04	71.21	2.90
7851	LA-LA	5.18	71.22	2.90
7852	LA-LA	5.41	71.22	2.90
7853	LA-LA	4.95	71.22	2.90
7854	LA-LA	5.08	71.22	2.90
7855	LA-LA	6.15	71.22	2.90
7856	LA-LA	7.98	71.22	2.90
7857	LA-LA	5.82	71.22	2.90
7858	LA-LA	2.71	71.23	2.90
7859	LA-LA	0.41	71.23	2.90
7860	LA-LA	0.00	71.23	2.90
7861	LA-LA	0.69	71.23	2.90
7862	LA-LA	3.90	71.23	2.90
7863	LA-LA	6.84	71.23	2.90
7864	LA-LA	7.64	71.23	2.90
7865	LA-LA	6.97	71.23	2.90
7866	LA-LA	6.99	71.23	2.90
7867	LA-LA	9.09	71.24	2.90
7868	LA-LA	11.14	71.24	2.90
7869	LA-LA	10.57	71.24	2.90
7870	LA-LA	7.92	71.25	2.90
7871	LA-LA	5.83	71.25	2.90
7872	LA-LA	3.69	71.25	2.90
7873	LA-LA	2.41	71.25	2.90
7874	LA-LA	3.64	71.25	2.90
7875	LA-LA	5.88	71.25	1.18
7876	LA-LA	7.21	71.25	1.18
7877	LA-LA	7.64	71.26	1.18
7878	LA-LA	7.46	71.26	1.18

time (s)	route	speed (mph)	distance (mi)	grade (%)
7957	LA-LA	43.54	71.68	-1.25
7958	LA-LA	44.02	71.69	-1.25
7959	LA-LA	43.73	71.70	-1.25
7960	LA-LA	43.28	71.72	-1.25
7961	LA-LA	42.38	71.73	-1.25
7962	LA-LA	40.62	71.74	-1.25
7963	LA-LA	38.32	71.75	-1.25
7964	LA-LA	36.62	71.76	-0.08
7965	LA-LA	36.21	71.77	-0.08
7966	LA-LA	36.67	71.78	-0.08
7967	LA-LA	37.78	71.79	-0.08
7968	LA-LA	39.54	71.80	-0.08
7969	LA-LA	41.20	71.81	-0.08
7970	LA-LA	42.41	71.82	-0.08
7971	LA-LA	42.20	71.84	-0.08
7972	LA-LA	41.15	71.85	-0.08
7973	LA-LA	40.18	71.86	1.23
7974	LA-LA	41.37	71.87	1.23
7975	LA-LA	42.60	71.88	1.23
7976	LA-LA	43.60	71.89	1.23
7977	LA-LA	44.29	71.91	1.23
7978	LA-LA	44.86	71.92	1.23
7979	LA-LA	44.91	71.93	1.23
7980	LA-LA	46.16	71.94	1.23
7981	LA-LA	46.66	71.96	-1.63
7982	LA-LA	47.76	71.97	-1.63
7983	LA-LA	49.20	71.98	-1.63
7984	LA-LA	50.00	71.99	-1.63
7985	LA-LA	49.44	72.01	-1.63
7986	LA-LA	49.91	72.02	-1.63
7987	LA-LA	49.30	72.04	-1.63
7988	LA-LA	50.49	72.05	-1.37
7989	LA-LA	51.87	72.07	-1.37
7990	LA-LA	53.32	72.08	-1.37
7991	LA-LA	54.94	72.09	-1.37
7992	LA-LA	56.69	72.11	-1.37
7993	LA-LA	58.09	72.13	-1.37
7994	LA-LA	59.18	72.14	-1.37
7995	LA-LA	59.29	72.16	-3.40
7996	LA-LA	60.06	72.18	-3.40
7997	LA-LA	61.25	72.19	-3.40
7998	LA-LA	61.53	72.21	-3.40
7999	LA-LA	61.67	72.23	-3.40
8000	LA-LA	61.37	72.24	-3.40
8001	LA-LA	61.12	72.26	-2.39
8002	LA-LA	60.49	72.28	-2.39
8003	LA-LA	60.73	72.29	-2.39
8004	LA-LA	61.56	72.31	-2.39
8005	LA-LA	62.17	72.33	-2.39
8006	LA-LA	63.00	72.34	-2.39
8007	LA-LA	62.64	72.36	-0.35
8008	LA-LA	61.72	72.38	-0.35
8009	LA-LA	61.84	72.40	-0.35
8010	LA-LA	62.19	72.41	-0.35
8011	LA-LA	62.81	72.43	-0.35
8012	LA-LA	63.29	72.45	-0.35
8013	LA-LA	63.15	72.46	0.03
8014	LA-LA	62.83	72.48	0.03
8015	LA-LA	63.19	72.50	0.03
8016	LA-LA	63.63	72.52	0.03
8017	LA-LA	63.93	72.53	0.03
8018	LA-LA	63.76	72.55	-3.44
8019	LA-LA	64.19	72.57	-3.44
8020	LA-LA	64.90	72.59	-3.44
8021	LA-LA	65.92	72.61	-3.44
8022	LA-LA	66.88	72.62	-3.44
8023	LA-LA	67.55	72.64	-3.44
8024	LA-LA	67.22	72.66	0.57
8025	LA-LA	66.43	72.68	0.57
8026	LA-LA	65.69	72.70	0.57
8027	LA-LA	65.98	72.72	0.57
8028	LA-LA	66.74	72.73	0.57
8029	LA-LA	67.56	72.75	-0.32
8030	LA-LA	68.03	72.77	-0.32
8031	LA-LA	68.00	72.79	-0.32
8032	LA-LA	67.28	72.81	-0.32
8033	LA-LA	66.83	72.83	-0.32
8034	LA-LA	66.42	72.85	-0.32

time (s)	route	speed (mph)	distance (mi)	grade (%)
7879	LA-LA	7.17	71.26	1.18
7880	LA-LA	6.74	71.26	1.18
7881	LA-LA	6.60	71.26	1.18
7882	LA-LA	8.09	71.27	1.18
7883	LA-LA	11.39	71.27	1.18
7884	LA-LA	13.57	71.27	1.18
7885	LA-LA	15.01	71.28	1.18
7886	LA-LA	15.32	71.28	1.18
7887	LA-LA	16.52	71.29	1.18
7888	LA-LA	16.58	71.29	1.18
7889	LA-LA	16.60	71.29	1.18
7890	LA-LA	15.78	71.30	1.18
7891	LA-LA	13.95	71.30	1.18
7892	LA-LA	11.15	71.31	1.18
7893	LA-LA	6.89	71.31	1.18
7894	LA-LA	3.30	71.31	1.18
7895	LA-LA	1.20	71.31	1.18
7896	LA-LA	1.85	71.31	1.18
7897	LA-LA	4.50	71.31	1.18
7898	LA-LA	8.33	71.31	1.18
7899	LA-LA	9.84	71.32	1.18
7900	LA-LA	9.77	71.32	1.18
7901	LA-LA	11.41	71.32	1.18
7902	LA-LA	13.02	71.32	1.18
7903	LA-LA	13.56	71.33	1.18
7904	LA-LA	13.66	71.33	1.18
7905	LA-LA	14.59	71.34	1.18
7906	LA-LA	14.81	71.34	1.18
7907	LA-LA	14.30	71.34	1.18
7908	LA-LA	13.12	71.35	1.18
7909	LA-LA	12.22	71.35	-1.92
7910	LA-LA	10.20	71.35	-1.92
7911	LA-LA	8.79	71.36	-1.92
7912	LA-LA	8.35	71.36	-1.92
7913	LA-LA	10.18	71.36	-1.92
7914	LA-LA	11.52	71.36	-1.92
7915	LA-LA	12.00	71.37	-1.92
7916	LA-LA	13.02	71.37	-1.92
7917	LA-LA	13.10	71.38	-1.92
7918	LA-LA	13.00	71.38	-1.92
7919	LA-LA	14.42	71.38	-1.92
7920	LA-LA	16.59	71.39	-1.92
7921	LA-LA	18.27	71.39	-1.92
7922	LA-LA	18.41	71.40	-1.92
7923	LA-LA	19.23	71.40	-1.92
7924	LA-LA	20.54	71.41	-1.92
7925	LA-LA	20.50	71.41	-1.92
7926	LA-LA	20.11	71.41	-1.92
7927	LA-LA	19.76	71.42	-1.92
7928	LA-LA	20.27	71.43	-1.92
7929	LA-LA	20.65	71.44	-1.92
7930	LA-LA	20.35	71.44	-1.92
7931	LA-LA	19.65	71.45	-1.92
7932	LA-LA	20.25	71.45	-2.36
7933	LA-LA	21.87	71.46	-2.36
7934	LA-LA	22.95	71.46	-2.36
7935	LA-LA	24.06	71.47	-2.36
7936	LA-LA	25.64	71.48	-2.36
7937	LA-LA	27.77	71.49	-2.36
7938	LA-LA	30.46	71.49	-2.36
7939	LA-LA	31.36	71.50	-2.36
7940	LA-LA	30.45	71.51	-2.36
7941	LA-LA	28.73	71.52	-2.36
7942	LA-LA	27.12	71.53	-2.36
7943	LA-LA	27.17	71.53	-2.36
7944	LA-LA	28.82	71.54	-2.36
7945	LA-LA	30.85	71.55	-0.44
7946	LA-LA	33.12	71.56	-0.44
7947	LA-LA	36.07	71.57	-0.44
7948	LA-LA	38.05	71.58	-0.44
7949	LA-LA	38.26	71.59	-0.44
7950	LA-LA	38.28	71.60	-0.44
7951	LA-LA	39.59	71.61	-0.44
7952	LA-LA	40.09	71.62	-0.44
7953	LA-LA	39.89	71.63	-0.44
7954	LA-LA	40.57	71.65	-0.44
7955	LA-LA	41.86	71.66	-1.25
7956	LA-LA	42.98	71.67	

time (s)	route	speed (mph)	distance (mi)	grade (%)
8113	LA-LA	57.23	74.07	-0.72
8114	LA-LA	56.58	74.08	-0.72
8115	LA-LA	56.45	74.10	-0.72
8116	LA-LA	56.67	74.11	-0.72
8117	LA-LA	56.12	74.13	-0.72
8118	LA-LA	55.66	74.14	-0.72
8119	LA-LA	56.14	74.16	-2.72
8120	LA-LA	56.95	74.17	2.72
8121	LA-LA	57.71	74.19	2.72
8122	LA-LA	57.14	74.21	2.72
8123	LA-LA	55.85	74.22	2.72
8124	LA-LA	53.42	74.24	2.72
8125	LA-LA	50.69	74.25	-2.57
8126	LA-LA	48.09	74.26	-2.57
8127	LA-LA	46.44	74.28	-2.57
8128	LA-LA	46.15	74.29	-2.57
8129	LA-LA	46.69	74.30	-2.57
8130	LA-LA	47.98	74.31	-2.57
8131	LA-LA	49.64	74.33	-2.57
8132	LA-LA	51.24	74.34	-2.57
8133	LA-LA	52.99	74.36	0.67
8134	LA-LA	53.73	74.37	0.67
8135	LA-LA	54.85	74.39	0.67
8136	LA-LA	55.18	74.40	0.67
8137	LA-LA	54.14	74.42	0.67
8138	LA-LA	52.98	74.43	0.67
8139	LA-LA	52.80	74.45	0.67
8140	LA-LA	52.80	74.46	2.24
8141	LA-LA	51.76	74.47	2.24
8142	LA-LA	51.14	74.49	2.24
8143	LA-LA	50.82	74.50	2.24
8144	LA-LA	50.56	74.52	2.24
8145	LA-LA	50.88	74.53	2.24
8146	LA-LA	51.35	74.54	2.24
8147	LA-LA	52.07	74.56	-0.27
8148	LA-LA	51.89	74.57	-0.27
8149	LA-LA	50.82	74.59	-0.27
8150	LA-LA	49.99	74.60	-0.27
8151	LA-LA	48.20	74.61	-0.27
8152	LA-LA	48.09	74.63	-0.27
8153	LA-LA	48.31	74.64	-0.27
8154	LA-LA	48.75	74.65	-0.55
8155	LA-LA	48.43	74.67	-0.55
8156	LA-LA	47.80	74.68	-0.55
8157	LA-LA	47.26	74.69	-0.55
8158	LA-LA	45.61	74.71	-0.55
8159	LA-LA	43.58	74.72	-0.55
8160	LA-LA	41.89	74.73	-0.55
8161	LA-LA	38.85	74.74	-0.55
8162	LA-LA	36.04	74.75	-0.55
8163	LA-LA	33.23	74.76	-0.03
8164	LA-LA	30.50	74.77	-0.03
8165	LA-LA	27.64	74.77	-0.03
8166	LA-LA	24.32	74.78	-0.03
8167	LA-LA	20.95	74.79	-0.03
8168	LA-LA	17.51	74.79	-0.03
8169	LA-LA	14.26	74.80	-0.03
8170	LA-LA	11.07	74.80	-0.03
8171	LA-LA	9.22	74.80	-0.03
8172	LA-LA	6.37	74.80	-0.03
8173	LA-LA	4.25	74.80	-0.03
8174	LA-LA	3.30	74.81	-0.03
8175	LA-LA	2.46	74.81	-0.03
8176	LA-LA	1.65	74.81	-0.03
8177	LA-LA	0.60	74.81	-0.03
8178	LA-LA	0.00	74.81	-0.03
8179	LA-LA	0.00	74.81	-0.03
8180	LA-LA	0.00	74.81	-0.03
8181	LA-LA	0.00	74.81	-0.03
8182	LA-LA	0.00	74.81	-0.03
8183	LA-LA	0.00	74.81	-0.03
8184	LA-LA	0.00	74.81	-0.03
8185	LA-LA	0.00	74.81	-0.03
8186	LA-LA	0.00	74.81	-0.03
8187	LA-LA	0.00	74.81	-0.03
8188	LA-LA	0.00	74.81	-0.03
8189	LA-LA	0.00	74.81	-0.03
8190	LA-LA	0.00	74.81	-0.03

time (s)	route	speed (mph)	distance (mi)	grade (%)
8269	LA-LA	34.84	75.06	-0.22
8270	LA-LA	34.22	75.07	-0.22
8271	LA-LA	33.74	75.08	-0.22
8272	LA-LA	34.41	75.09	-0.22
8273	LA-LA	34.95	75.10	-0.22
8274	LA-LA	35.21	75.11	-0.22
8275	LA-LA	35.23	75.12	-0.22
8276	LA-LA	34.67	75.13	-0.22
8277	LA-LA	33.92	75.14	-0.22
8278	LA-LA	33.21	75.15	-0.22
8279	LA-LA	32.47	75.16	-0.44
8280	LA-LA	32.39	75.17	-0.44
8281	LA-LA	31.85	75.18	-0.44
8282	LA-LA	32.30	75.18	-0.44
8283	LA-LA	33.06	75.19	-0.44
8284	LA-LA	33.86	75.20	-0.44
8285	LA-LA	34.11	75.21	-0.44
8286	LA-LA	33.66	75.22	-0.44
8287	LA-LA	33.01	75.23	-0.44
8288	LA-LA	32.39	75.24	-0.44
8289	LA-LA	32.08	75.25	-0.44
8290	LA-LA	32.34	75.26	-0.50
8291	LA-LA	31.66	75.27	-0.50
8292	LA-LA	31.29	75.27	-0.50
8293	LA-LA	30.63	75.28	-0.50
8294	LA-LA	28.52	75.29	-0.50
8295	LA-LA	25.39	75.30	-0.50
8296	LA-LA	22.36	75.30	-0.50
8297	LA-LA	20.18	75.31	-0.50
8298	LA-LA	20.39	75.31	-0.50
8299	LA-LA	22.07	75.32	-0.50
8300	LA-LA	24.16	75.33	-0.50
8301	LA-LA	25.91	75.33	-0.50
8302	LA-LA	27.79	75.34	-0.50
8303	LA-LA	29.57	75.35	-0.69
8304	LA-LA	31.30	75.36	-0.69
8305	LA-LA	32.70	75.37	-0.69
8306	LA-LA	32.57	75.38	-0.69
8307	LA-LA	32.48	75.39	-0.69
8308	LA-LA	32.54	75.39	-0.69
8309	LA-LA	32.63	75.40	-0.69
8310	LA-LA	32.48	75.41	-0.69
8311	LA-LA	31.60	75.42	-0.69
8312	LA-LA	29.37	75.43	-0.69
8313	LA-LA	26.36	75.44	-0.69
8314	LA-LA	22.42	75.44	-0.69
8315	LA-LA	18.02	75.45	-0.69
8316	LA-LA	13.74	75.45	-1.14
8317	LA-LA	10.08	75.45	-1.14
8318	LA-LA	7.22	75.46	-1.14
8319	LA-LA	5.29	75.46	-1.14
8320	LA-LA	3.39	75.46	-1.14
8321	LA-LA	1.38	75.46	-1.14
8322	LA-LA	0.00	75.46	-1.14
8323	LA-LA	0.00	75.46	-1.14
8324	LA-LA	0.00	75.46	-1.14
8325	LA-LA	0.00	75.46	-1.14
8326	LA-LA	0.00	75.46	-1.14
8327	LA-LA	0.00	75.46	-1.14
8328	LA-LA	0.83	75.46	-1.14
8329	LA-LA	1.41	75.46	-1.14
8330	LA-LA	1.21	75.46	-1.14
8331	LA-LA	0.85	75.46	-1.14
8332	LA-LA	0.00	75.46	-1.14
8333	LA-LA	0.00	75.46	-1.14
8334	LA-LA	0.00	75.46	-1.14
8335	LA-LA	0.00	75.46	-1.14
8336	LA-LA	0.38	75.46	-1.14
8337	LA-LA	1.29	75.46	-1.14
8338	LA-LA	1.08	75.46	-1.14
8339	LA-LA	0.85	75.46	-1.14
8340	LA-LA	0.73	75.46	-1.14
8341	LA-LA	1.23	75.46	-1.14
8342	LA-LA	2.25	75.46	-1.14
8343	LA-LA	2.98	75.46	-1.14
8344	LA-LA	3.01	75.46	-1.14
8345	LA-LA	4.32	75.46	-1.14
8346	LA-LA	6.67	75.47	-1.14

time (s)	route	speed (mph)	distance (mi)	grade (%)
8191	LA-LA	0.00	74.81	-0.03
8192	LA-LA	0.00	74.81	-0.03
8193	LA-LA	0.00	74.81	-0.03
8194	LA-LA	0.00	74.81	-0.03
8195	LA-LA	0.00	74.81	-0.03
8196	LA-LA	0.00	74.81	-0.03
8197	LA-LA	0.00	74.81	-0.03
8198	LA-LA	0.00	74.81	-0.03
8199	LA-LA	0.00	74.81	-0.03
8200	LA-LA	0.00	74.81	-0.03
8201	LA-LA	0.00	74.81	-0.03
8202	LA-LA	0.00	74.81	-0.03
8203	LA-LA	0.00	74.81	-0.03
8204	LA-LA	0.00	74.81	-0.03
8205	LA-LA	0.00	74.81	-0.03
8206	LA-LA	0.00	74.81	-0.03
8207	LA-LA	0.00	74.81	-0.03
8208	LA-LA	0.16	74.81	-0.03
8209	LA-LA	1.70	74.81	-0.03
8210	LA-LA	3.04	74.81	-0.03
8211	LA-LA	3.01	74.81	-0.03
8212	LA-LA	2.78	74.81	-0.03
8213	LA-LA	5.06	74.81	-0.03
8214	LA-LA	9.83	74.81	-0.03
8215	LA-LA	13.37	74.82	-0.03
8216	LA-LA	15.65	74.82	-0.03
8217	LA-LA	16.50	74.83	-0.03
8218	LA-LA	17.81	74.83	-0.03
8219	LA-LA	17.88	74.84	-0.03
8220	LA-LA	17.71	74.84	-0.03
8221	LA-LA	18.69	74.85	-0.03
8222	LA-LA	18.91	74.85	-0.55
8223	LA-LA	18.62	74.86	-0.55
8224	LA-LA	18.33	74.86	-0.55
8225	LA-LA	17.29	74.87	-0.55
8226	LA-LA	15.71	74.87	-0.55
8227	LA-LA	13.90	74.87	-0.55
8228	LA-LA	11.90	74.88	-0.55
8229	LA-LA	9.76	74.88	-0.55
8230	LA-LA	7.27	74.88	-0.55
8231	LA-LA	5.35	74.88	-0.55
8232	LA-LA	4.30	74.89	-0.55
8233	LA-LA	3.22	74.89	-0.55
8234	LA-LA	1.65	74.89	-0.55
8235	LA-LA	0.15	74.89	-0.55
8236	LA-LA	0.00	74.89	-0.55
8237	LA-LA	0.00	74.89	-0.55
8238	LA-LA	0.00	74.89	-0.55
8239	LA-LA	0.00	74.89	-0.55
8240	LA-LA	0.00	74.89	-0.55
8241	LA-LA	0.00	74.89	-0.55
8242	LA-LA	0.98	74.89	-0.55
8243	LA-LA	2.82	74.89	-0.55
8244	LA-LA	6.98	74.89	-0.55
8245	LA-LA	8.66	74.89	-0.55
8246	LA-LA	10.29	74.89	-0.55
8247	LA-LA	12.41	74.90	-0.55
8248	LA-LA	14.59	74.90	-0.55
8249	LA-LA	16.73	74.91	-0.55
8250	LA-LA	18.17	74.91	-0.55
8251	LA-LA	19.28	74.92	-0.55
8252	LA-LA	20.84	74.92	-0.55
8253	LA-LA	22.37	74.93	-0.55
8254	LA-LA	23.73	74.94	-0.55
8255	LA-LA	24.85	74.94	-0.55
8256	LA-LA	25.88	74.95	-0.55
8257	LA-LA	26.84	74.96	-0.27
8258	LA-LA	27.64	74.96	-0.27
8259	LA-LA	28.22	74.97	-0.27
8260	LA-LA	28.99	74.98	-0.27
8261	LA-LA	30.04	74.99	-0.27
8262	LA-LA	31.40	75.00	-0.27
8263	LA-LA	32.83	75.01	-0.27
8264	LA-LA	33.95	75.02	-0.27
8265	LA-LA	34.53	75.02	-0.17
8266	LA-LA	34.77	75.03	-0.27
8267	LA-LA	34.97	75.04	-0.27
8268	LA-LA	35.08	75.05	-0.22

time (s)	route	speed (mph)	distance (mi)	grade (%)
8425	LA-LA	28.15	76.00	0.39
8426	LA-LA	29.84	76.01	0.39
8427	LA-LA	31.30	76.02	0.39
8428	LA-LA	32.69	76.02	0.39
8429	LA-LA	33.07	76.03	0.39
8430	LA-LA	32.45	76.04	0.39
8431	LA-LA	32.74	76.05	0.61
8432	LA-LA	33.01	76.06	0.61
8433	LA-LA	32.20	76.07	0.61
8434	LA-LA	31.43	76.08	0.61
8435	LA-LA	30.67	76.09	0.61
8436	LA-LA	29.20	76.09	0.61
8437	LA-LA	26.20	76.10	0.61
8438	LA-LA	22.37	76.11	0.61
8439	LA-LA	18.40	76.11	0.61
8440	LA-LA	13.99	76.12	0.61
8441	LA-LA	9.00	76.12	0.61
8442	LA-LA	4.23	76.12	0.61
8443	LA-LA	0.92	76.12	0.61
8444	LA-LA	0.00	76.12	0.61
8445	LA-LA	0.00	76.12	0.61
8446	LA-LA	0.00	76.12	0.61
8447	LA-LA	0.00	76.12	0.61
8448	LA-LA	2.75	76.12	0.61
8449	LA-LA	7.02	76.12	0.61
8450	LA-LA	10.49	76.13	0.61
8451	LA-LA	13.17	76.13	0.61
8452	LA-LA	15.43	76.13	0.61
8453	LA-LA	17.73	76.14	0.61
8454	LA-LA	20.24	76.14	0.61
8455	LA-LA	22.67	76.15	0.14
8456	LA-LA	23.17	76.16	0.14
8457	LA-LA	21.21	76.16	0.14
8458	LA-LA	17.74	76.17	0.14
8459	LA-LA	15.17	76.17	0.14
8460	LA-LA	15.77	76.18	0.14
8461	LA-LA	18.51	76.18	0.14
8462	LA-LA	21.71	76.19	0.14
8463	LA-LA	23.58	76.19	0.14
8464	LA-LA	20.15	76.20	0.14
8465	LA-LA	18.12	76.20	0.14
8466	LA-LA	18.67	76.21	0.14
8467	LA-LA	21.21	76.22	0.14
8468	LA-LA	24.06	76.22	0.14
8469	LA-LA	26.90	76.23	0.14
8470	LA-LA	29.44	76.24	0.14
8471	LA-LA	31.16	76.25	0.14
8472	LA-LA	33.14	76.26	0.28
8473	LA-LA	34.65	76.26	0.28
8474	LA-LA	34.69	76.27	0.28
8475	LA-LA	33.91	76.28	0.28
8476	LA-LA	33.00	76.29	0.28
8477	LA-LA	32.26	76.30	0.28
8478	LA-LA	31.47	76.31	0.28
8479	LA-LA	30.14	76.32	0.28
8480	LA-LA	28.08	76.33	0.28
8481	LA-LA	25.82	76.33	0.28
8482	LA-LA	23.95	76.34	0.28
8483	LA-LA	19.46	76.35	0.28
8484	LA-LA	15.72	76.35	0.28
8485	LA-LA	12.08	76.35	0.30
8486	LA-LA	8.75	76.36	0.30
8487	LA-LA	6.05	76.36	0.30
8488	LA-LA	5.65	76.36	0.30
8489	LA-LA	5.13	76.36	0.30
8490	LA-LA	4.06	76.36	0.30
8491	LA-LA	2.54	76.36	0.30
8492	LA-LA	0.76	76.36	0.30
8493	LA-LA	0.00	76.36	0.30
8494	LA-LA	0.00	76.36	0.30
8495	LA-LA	0.00	76.36	0.30
8496	LA-LA	0.00	76.36	0.30
8497	LA-LA	0.00	76.36	0.30
8498	LA-LA	0.00	76.36	0.30
8499	LA-LA	0.00	76.36	0.30
8500	LA-LA	0.00	76.36	0.30
8501	LA-LA	0.00	76.36	0.30
8502	LA-LA	0.00	76.36	0.30

time (s)	route	speed (mph)	distance (mi)	grade (%)
8581	LA-LA	2.36	76.66	0.63
8582	LA-LA	0.18	76.66	0.63
8583	LA-LA	0.00	76.66	0.63
8584	LA-LA	0.00	76.66	0.63
8585	LA-LA	0.00	76.66	0.63
8586	LA-LA	0.00	76.66	0.63
8587	LA-LA	0.00	76.66	0.63
8588	LA-LA	0.00	76.66	0.63
8589	LA-LA	0.00	76.66	0.63
8590	LA-LA	0.00	76.66	0.63
8591	LA-LA	0.00	76.66	0.63
8592	LA-LA	0.00	76.66	0.63
8593	LA-LA	0.00	76.66	0.63
8594	LA-LA	0.00	76.66	0.63
8595	LA-LA	0.00	76.66	0.63
8596	LA-LA	0.00	76.66	0.63
8597	LA-LA	0.00	76.66	0.63
8598	LA-LA	0.00	76.66	0.63
8599	LA-LA	0.00	76.66	0.63
8600	LA-LA	0.00	76.66	0.63
8601	LA-LA	0.00	76.66	0.63
8602	LA-LA	0.00	76.66	0.63
8603	LA-LA	0.00	76.66	0.63
8604	LA-LA	0.00	76.66	0.63
8605	LA-LA	0.00	76.66	0.63
8606	LA-LA	0.00	76.66	0.63
8607	LA-LA	0.00	76.66	0.63
8608	LA-LA	0.00	76.66	0.63
8609	LA-LA	0.00	76.66	0.63
8610	LA-LA	0.00	76.66	0.63
8611	LA-LA	0.00	76.66	0.63
8612	LA-LA	0.00	76.66	0.63
8613	LA-LA	0.00	76.66	0.63
8614	LA-LA	0.00	76.66	0.63
8615	LA-LA	0.00	76.66	0.63
8616	LA-LA	0.00	76.66	0.63
8617	LA-LA	0.00	76.66	0.63
8618	LA-LA	0.79	76.66	0.63
8619	LA-LA	5.69	76.66	0.63
8620	LA-LA	10.60	76.66	0.63
8621	LA-LA	13.67	76.67	0.63
8622	LA-LA	14.54	76.67	0.63
8623	LA-LA	14.29	76.67	0.63
8624	LA-LA	15.03	76.68	0.63
8625	LA-LA	16.09	76.68	0.63
8626	LA-LA	18.20	76.69	0.63
8627	LA-LA	20.94	76.69	0.63
8628	LA-LA	23.47	76.70	0.63
8629	LA-LA	25.73	76.71	0.63
8630	LA-LA	27.80	76.71	0.63
8631	LA-LA	28.75	76.72	0.63
8632	LA-LA	28.50	76.73	0.63
8633	LA-LA	27.77	76.74	0.63
8634	LA-LA	26.98	76.74	0.63
8635	LA-LA	26.13	76.75	0.24
8636	LA-LA	24.61	76.76	0.24
8637	LA-LA	22.23	76.76	0.24
8638	LA-LA	19.12	76.77	0.24
8639	LA-LA	15.93	76.77	0.24
8640	LA-LA	12.88	76.78	0.24
8641	LA-LA	10.01	76.78	0.24
8642	LA-LA	6.88	76.78	0.24
8643	LA-LA	4.44	76.78	0.24
8644	LA-LA	2.72	76.78	0.24
8645	LA-LA	0.79	76.78	0.24
8646	LA-LA	0.00	76.78	0.24
8647	LA-LA	0.00	76.78	0.24
8648	LA-LA	0.00	76.78	0.24
8649	LA-LA	0.00	76.78	0.24
8650	LA-LA	0.00	76.78	0.24
8651	LA-LA	0.00	76.78	0.24
8652	LA-LA	0.00	76.78	0.24
8653	LA-LA	0.00	76.78	0.24
8654	LA-LA	0.00	76.78	0.24
8655	LA-LA	0.00	76.78	0.24
8656	LA-LA	0.00	76.78	0.24
8657	LA-LA	0.00	76.78	0.24
8658	LA-LA	0.00	76.78	0.24

time (s)	route	speed (mph)	distance (mi)	grade (%)
8503	LA-LA	0.00	76.36	0.30
8504	LA-LA	0.00	76.36	0.30
8505	LA-LA	0.00	76.36	0.30
8506	LA-LA	0.00	76.36	0.30
8507	LA-LA	0.00	76.36	0.30
8508	LA-LA	0.00	76.36	0.30
8509	LA-LA	0.00	76.36	0.30
8510	LA-LA	0.00	76.36	0.30
8511	LA-LA	0.00	76.36	0.30
8512	LA-LA	0.00	76.36	0.30
8513	LA-LA	0.00	76.36	0.30
8514	LA-LA	0.00	76.36	0.30
8515	LA-LA	0.00	76.36	0.30
8516	LA-LA	0.00	76.36	0.30
8517	LA-LA	0.00	76.36	0.30
8518	LA-LA	0.00	76.36	0.30
8519	LA-LA	0.00	76.36	0.30
8520	LA-LA	0.00	76.36	0.30
8521	LA-LA	0.00	76.36	0.30
8522	LA-LA	0.00	76.36	0.30
8523	LA-LA	0.00	76.36	0.30
8524	LA-LA	0.00	76.36	0.30
8525	LA-LA	0.00	76.36	0.30
8526	LA-LA	0.00	76.36	0.30
8527	LA-LA	0.00	76.36	0.30
8528	LA-LA	0.00	76.36	0.30
8529	LA-LA	0.00	76.36	0.30
8530	LA-LA	0.00	76.36	0.30
8531	LA-LA	0.00	76.36	0.30
8532	LA-LA	0.00	76.36	0.30
8533	LA-LA	0.00	76.36	0.30
8534	LA-LA	0.16	76.36	0.30
8535	LA-LA	3.49	76.36	0.30
8536	LA-LA	8.75	76.37	0.30
8537	LA-LA	12.46	76.37	0.30
8538	LA-LA	14.24	76.37	0.30
8539	LA-LA	15.61	76.38	0.30
8540	LA-LA	15.93	76.38	0.30
8541	LA-LA	17.08	76.39	0.30
8542	LA-LA	19.19	76.39	0.30
8543	LA-LA	19.80	76.40	0.30
8544	LA-LA	19.71	76.40	0.30
8545	LA-LA	20.12	76.41	0.30
8546	LA-LA	19.89	76.41	0.30
8547	LA-LA	20.83	76.42	0.30
8548	LA-LA	21.72	76.42	0.30
8549	LA-LA	22.27	76.43	0.30
8550	LA-LA	22.33	76.44	0.30
8551	LA-LA	23.54	76.44	0.30
8552	LA-LA	24.61	76.45	0.50
8553	LA-LA	25.94	76.46	0.50
8554	LA-LA	27.08	76.46	0.50
8555	LA-LA	28.21	76.47	0.50
8556	LA-LA	29.49	76.48	0.50
8557	LA-LA	30.50	76.49	0.50
8558	LA-LA	31.25	76.50	0.50
8559	LA-LA	31.72	76.51	0.50
8560	LA-LA	31.09	76.51	0.50
8561	LA-LA	31.45	76.52	0.50
8562	LA-LA	32.79	76.53	0.50
8563	LA-LA	34.01	76.54	0.50
8564	LA-LA	34.73	76.55	0.54
8565	LA-LA	34.12	76.56	0.54
8566	LA-LA	33.21	76.57	0.54
8567	LA-LA	31.94	76.58	0.54
8568	LA-LA	29.77	76.59	0.54
8569	LA-LA	27.54	76.59	0.54
8570	LA-LA	26.47	76.60	0.54
8571	LA-LA	26.17	76.61	0.54
8572	LA-LA	27.68	76.62	0.54
8573	LA-LA	27.75	76.62	0.54
8574	LA-LA	26.60	76.63	0.54
8575	LA-LA	23.77	76.64	0.54
8576	LA-LA	20.37	76.64	0.54
8577	LA-LA	16.68	76.65	0.54
8578	LA-LA	12.99	76.65	0.63
8579	LA-LA	9.19	76.65	0.63
8580	LA-LA	5.30	76.66	0.63



Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 9049 to 9126.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 9205 to 9282.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 9127 to 9204.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 9283 to 9360.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 9361-9438.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 9517-9594.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 9439-9516.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 9595-9672.

time (s)	route	speed (mph)	distance (mi)	grade (%)
9673	LA-Upland	21.53	81.34	-0.20
9674	LA-Upland	22.93	81.35	-0.17
9675	LA-Upland	24.50	81.36	-0.17
9676	LA-Upland	25.23	81.36	-0.17
9677	LA-Upland	26.43	81.37	-0.17
9678	LA-Upland	28.02	81.38	-0.17
9679	LA-Upland	29.31	81.39	-0.17
9680	LA-Upland	29.59	81.40	-0.17
9681	LA-Upland	29.80	81.40	-0.17
9682	LA-Upland	29.75	81.41	-0.17
9683	LA-Upland	29.67	81.42	-0.17
9684	LA-Upland	29.05	81.43	-0.17
9685	LA-Upland	28.12	81.44	-0.17
9686	LA-Upland	27.16	81.44	-0.17
9687	LA-Upland	27.00	81.45	-0.54
9688	LA-Upland	25.84	81.46	-0.54
9689	LA-Upland	23.84	81.46	-0.54
9690	LA-Upland	21.55	81.47	-0.54
9691	LA-Upland	18.24	81.48	-0.54
9692	LA-Upland	14.53	81.48	-0.54
9693	LA-Upland	11.27	81.48	-0.54
9694	LA-Upland	8.69	81.48	-0.54
9695	LA-Upland	6.87	81.49	-0.54
9696	LA-Upland	5.37	81.49	-0.54
9697	LA-Upland	4.29	81.49	-0.54
9698	LA-Upland	3.35	81.49	-0.54
9699	LA-Upland	2.53	81.49	-0.54
9700	LA-Upland	2.29	81.49	-0.54
9701	LA-Upland	2.52	81.49	-0.54
9702	LA-Upland	4.37	81.49	-0.54
9703	LA-Upland	8.06	81.50	-0.54
9704	LA-Upland	11.76	81.50	-0.54
9705	LA-Upland	15.24	81.50	-0.54
9706	LA-Upland	18.28	81.51	-0.54
9707	LA-Upland	20.69	81.51	-0.54
9708	LA-Upland	21.48	81.52	-0.54
9709	LA-Upland	21.37	81.53	-0.54
9710	LA-Upland	21.17	81.53	-0.54
9711	LA-Upland	21.13	81.54	-0.54
9712	LA-Upland	21.44	81.54	-0.54
9713	LA-Upland	20.92	81.55	-0.54
9714	LA-Upland	20.73	81.55	-2.94
9715	LA-Upland	20.75	81.56	-2.94
9716	LA-Upland	20.57	81.57	-2.94
9717	LA-Upland	21.11	81.57	-2.94
9718	LA-Upland	21.55	81.58	-2.94
9719	LA-Upland	23.03	81.58	-2.94
9720	LA-Upland	24.48	81.59	-2.94
9721	LA-Upland	25.17	81.60	-2.94
9722	LA-Upland	24.63	81.60	-2.94
9723	LA-Upland	22.85	81.61	-2.94
9724	LA-Upland	19.86	81.62	-2.94
9725	LA-Upland	16.96	81.62	-2.94
9726	LA-Upland	16.16	81.63	-2.94
9727	LA-Upland	17.21	81.63	-2.94
9728	LA-Upland	18.90	81.64	-2.94
9729	LA-Upland	20.45	81.64	-2.94
9730	LA-Upland	22.40	81.65	-2.94
9731	LA-Upland	23.97	81.65	-1.46
9732	LA-Upland	25.60	81.66	-1.46
9733	LA-Upland	26.93	81.67	-1.46
9734	LA-Upland	27.36	81.68	-1.46
9735	LA-Upland	26.99	81.68	-1.46
9736	LA-Upland	25.29	81.69	-1.46
9737	LA-Upland	23.21	81.70	-1.46
9738	LA-Upland	18.58	81.70	-1.46
9739	LA-Upland	15.51	81.71	-1.46
9740	LA-Upland	12.91	81.71	-1.46
9741	LA-Upland	11.68	81.71	-1.46
9742	LA-Upland	12.22	81.72	-1.46
9743	LA-Upland	14.38	81.72	-1.46
9744	LA-Upland	17.35	81.72	-1.46
9745	LA-Upland	21.56	81.73	-1.46
9746	LA-Upland	25.00	81.74	-1.46
9747	LA-Upland	27.17	81.74	-1.46
9748	LA-Upland	29.65	81.75	1.53
9749	LA-Upland	31.44	81.76	1.53
9750	LA-Upland	32.76	81.77	1.53

time (s)	route	speed (mph)	distance (mi)	grade (%)
9829	LA-Upland	24.31	82.29	0.95
9830	LA-Upland	25.44	82.30	0.95
9831	LA-Upland	26.51	82.30	0.95
9832	LA-Upland	26.84	82.31	0.95
9833	LA-Upland	26.24	82.32	0.95
9834	LA-Upland	25.47	82.33	0.95
9835	LA-Upland	24.18	82.33	0.95
9836	LA-Upland	23.26	82.34	0.95
9837	LA-Upland	23.17	82.35	0.95
9838	LA-Upland	24.07	82.35	1.18
9839	LA-Upland	25.55	82.36	1.18
9840	LA-Upland	27.19	82.37	1.18
9841	LA-Upland	28.01	82.37	1.18
9842	LA-Upland	27.64	82.38	1.18
9843	LA-Upland	26.74	82.39	1.18
9844	LA-Upland	25.06	82.40	1.18
9845	LA-Upland	23.11	82.40	1.18
9846	LA-Upland	22.42	82.41	1.18
9847	LA-Upland	22.21	82.41	1.18
9848	LA-Upland	23.39	82.42	1.18
9849	LA-Upland	24.83	82.43	1.18
9850	LA-Upland	25.23	82.43	1.18
9851	LA-Upland	25.06	82.44	1.18
9852	LA-Upland	25.82	82.45	1.18
9853	LA-Upland	26.58	82.46	0.88
9854	LA-Upland	27.10	82.46	0.88
9855	LA-Upland	26.31	82.47	0.88
9856	LA-Upland	25.18	82.48	0.88
9857	LA-Upland	22.79	82.48	0.88
9858	LA-Upland	19.15	82.49	0.88
9859	LA-Upland	15.94	82.49	0.88
9860	LA-Upland	10.50	82.50	0.88
9861	LA-Upland	5.93	82.50	0.88
9862	LA-Upland	3.54	82.50	0.88
9863	LA-Upland	2.20	82.50	0.88
9864	LA-Upland	2.21	82.50	0.88
9865	LA-Upland	3.05	82.50	0.88
9866	LA-Upland	5.02	82.50	0.88
9867	LA-Upland	6.97	82.50	0.88
9868	LA-Upland	6.93	82.51	0.88
9869	LA-Upland	4.82	82.51	0.88
9870	LA-Upland	2.53	82.51	0.88
9871	LA-Upland	0.38	82.51	0.88
9872	LA-Upland	0.00	82.51	0.88
9873	LA-Upland	0.00	82.51	0.88
9874	LA-Upland	0.00	82.51	0.88
9875	LA-Upland	0.00	82.51	0.88
9876	LA-Upland	0.00	82.51	0.88
9877	LA-Upland	0.00	82.51	0.88
9878	LA-Upland	0.00	82.51	0.88
9879	LA-Upland	0.00	82.51	0.88
9880	LA-Upland	0.00	82.51	0.88
9881	LA-Upland	0.00	82.51	0.88
9882	LA-Upland	0.00	82.51	0.88
9883	LA-Upland	0.00	82.51	0.88
9884	LA-Upland	0.00	82.51	0.88
9885	LA-Upland	0.00	82.51	0.88
9886	LA-Upland	0.00	82.51	0.88
9887	LA-Upland	0.00	82.51	0.88
9888	LA-Upland	0.00	82.51	0.88
9889	LA-Upland	0.00	82.51	0.88
9890	LA-Upland	0.00	82.51	0.88
9891	LA-Upland	0.00	82.51	0.88
9892	LA-Upland	0.00	82.51	0.88
9893	LA-Upland	0.00	82.51	0.88
9894	LA-Upland	0.00	82.51	0.88
9895	LA-Upland	0.00	82.51	0.88
9896	LA-Upland	0.00	82.51	0.88
9897	LA-Upland	0.00	82.51	0.88
9898	LA-Upland	0.00	82.51	0.88
9899	LA-Upland	0.00	82.51	0.88
9900	LA-Upland	0.51	82.51	0.88
9901	LA-Upland	5.11	82.51	0.88
9902	LA-Upland	10.48	82.51	0.88
9903	LA-Upland	14.15	82.52	0.88
9904	LA-Upland	17.34	82.52	0.88
9905	LA-Upland	19.97	82.53	0.88
9906	LA-Upland	21.33	82.53	0.88

time (s)	route	speed (mph)	distance (mi)	grade (%)
9751	LA-Upland	33.71	81.78	1.53
9752	LA-Upland	33.65	81.79	1.53
9753	LA-Upland	34.30	81.80	1.53
9754	LA-Upland	34.15	81.81	1.53
9755	LA-Upland	35.13	81.82	1.53
9756	LA-Upland	35.66	81.83	1.53
9757	LA-Upland	35.83	81.84	1.53
9758	LA-Upland	35.39	81.85	1.53
9759	LA-Upland	35.79	81.86	1.75
9760	LA-Upland	35.86	81.87	1.75
9761	LA-Upland	35.66	81.88	1.75
9762	LA-Upland	34.58	81.89	1.75
9763	LA-Upland	33.19	81.90	1.75
9764	LA-Upland	31.47	81.90	1.75
9765	LA-Upland	29.72	81.91	1.75
9766	LA-Upland	27.98	81.92	1.75
9767	LA-Upland	26.09	81.93	1.75
9768	LA-Upland	23.85	81.93	1.75
9769	LA-Upland	22.18	81.94	1.75
9770	LA-Upland	22.12	81.95	1.75
9771	LA-Upland	23.12	81.95	-0.90
9772	LA-Upland	24.41	81.96	-0.90
9773	LA-Upland	26.05	81.97	-0.90
9774	LA-Upland	27.59	81.97	-0.90
9775	LA-Upland	29.24	81.98	-0.90
9776	LA-Upland	29.10	81.99	-0.90
9777	LA-Upland	28.64	82.00	-0.90
9778	LA-Upland	28.57	82.01	-0.90
9779	LA-Upland	28.64	82.01	-0.90
9780	LA-Upland	28.48	82.02	-0.90
9781	LA-Upland	27.91	82.02	-0.90
9782	LA-Upland	27.61	82.04	-0.90
9783	LA-Upland	28.09	82.04	-0.90
9784	LA-Upland	27.50	82.05	-1.28
9785	LA-Upland	26.68	82.06	-1.28
9786	LA-Upland	26.34	82.07	-1.28
9787	LA-Upland	26.08	82.07	-1.28
9788	LA-Upland	26.02	82.08	-1.28
9789	LA-Upland	26.40	82.09	-1.28
9790	LA-Upland	26.87	82.10	-1.28
9791	LA-Upland	27.16	82.10	-1.28
9792	LA-Upland	27.79	82.11	-1.28
9793	LA-Upland	28.73	82.12	-1.28
9794	LA-Upland	29.43	82.13	-1.28
9795	LA-Upland	29.66	82.13	-1.28
9796	LA-Upland	29.50	82.14	-1.28
9797	LA-Upland	28.03	82.15	-1.28
9798	LA-Upland	27.69	82.16	-1.28
9799	LA-Upland	26.41	82.16	-0.01
9800	LA-Upland	23.65	82.17	-0.01
9801	LA-Upland	20.24	82.18	-0.01
9802	LA-Upland	16.57	82.18	-0.01
9803	LA-Upland	12.89	82.18	-0.01
9804	LA-Upland	9.66	82.19	-0.01
9805	LA-Upland	6.66	82.19	-0.01
9806	LA-Upland	4.48	82.19	-0.01
9807	LA-Upland	2.69	82.19	-0.01
9808	LA-Upland	0.47	82.19	-0.01
9809	LA-Upland	0.00	82.19	-0.01
9810	LA-Upland	0.00	82.19	-0.01
9811	LA-Upland	0.69	82.19	-0.01
9812	LA-Upland	5.13	82.19	-0.01
9813	LA-Upland	9.81	82.20	-0.01
9814	LA-Upland	13.30	82.20	-0.01
9815	LA-Upland	15.62	82.20	-0.01
9816	LA-Upland	17.72	82.21	-0.01
9817	LA-Upland	19.83	82.21	-0.01
9818	LA-Upland	21.39	82.22	-0.01
9819	LA-Upland	22.32	82.23	-0.01
9820	LA-Upland	21.83	82.23	-0.01
9821	LA-Upland	21.29	82.24	-0.01
9822	LA-Upland	21.76	82.24	-0.01
9823	LA-Upland	23.04	82.25	0.95
9824	LA-Upland	24.13	82.26	0.



time [s]	route	speed [mph]	distance [mi]	grade (%)
9985	LA-Upland	0.00	82.69	0.67
9986	LA-Upland	0.00	82.69	0.67
9987	LA-Upland	0.00	82.69	0.67
9988	LA-Upland	0.00	82.69	0.67
9989	LA-Upland	0.00	82.69	0.67
9990	LA-Upland	0.00	82.69	0.67
9991	LA-Upland	0.00	82.69	0.67
9992	LA-Upland	0.00	82.69	0.67
9993	LA-Upland	1.60	82.69	0.67
9994	LA-Upland	6.42	82.69	0.67
9995	LA-Upland	10.77	82.69	0.67
9996	LA-Upland	13.64	82.70	0.67
9997	LA-Upland	15.43	82.70	0.67
9998	LA-Upland	16.15	82.71	0.67
9999	LA-Upland	18.24	82.71	0.67
10000	LA-Upland	19.38	82.72	0.67
10001	LA-Upland	19.83	82.72	0.67
10002	LA-Upland	20.75	82.73	0.67
10003	LA-Upland	22.14	82.73	0.67
10004	LA-Upland	23.44	82.74	0.67
10005	LA-Upland	24.74	82.75	0.67
10006	LA-Upland	26.04	82.75	1.03
10007	LA-Upland	26.81	82.76	1.03
10008	LA-Upland	26.52	82.77	1.03
10009	LA-Upland	25.74	82.78	1.03
10010	LA-Upland	24.98	82.78	1.03
10011	LA-Upland	24.23	82.79	1.03
10012	LA-Upland	23.46	82.80	1.03
10013	LA-Upland	22.03	82.80	1.03
10014	LA-Upland	19.95	82.81	1.03
10015	LA-Upland	17.83	82.81	1.03
10016	LA-Upland	15.92	82.82	1.03
10017	LA-Upland	13.85	82.82	1.03
10018	LA-Upland	11.26	82.82	1.03
10019	LA-Upland	8.41	82.83	1.03
10020	LA-Upland	5.37	82.83	1.03
10021	LA-Upland	3.63	82.83	1.03
10022	LA-Upland	2.28	82.83	1.03
10023	LA-Upland	0.90	82.83	1.03
10024	LA-Upland	0.00	82.83	1.03
10025	LA-Upland	0.00	82.83	1.03
10026	LA-Upland	0.00	82.83	1.03
10027	LA-Upland	0.00	82.83	1.03
10028	LA-Upland	0.00	82.83	1.03
10029	LA-Upland	0.00	82.83	1.03
10030	LA-Upland	0.00	82.83	1.03
10031	LA-Upland	0.00	82.83	1.03
10032	LA-Upland	0.00	82.83	1.03
10033	LA-Upland	0.00	82.83	1.03
10034	LA-Upland	0.00	82.83	1.03
10035	LA-Upland	0.00	82.83	1.03
10036	LA-Upland	0.00	82.83	1.03
10037	LA-Upland	0.00	82.83	1.03
10038	LA-Upland	0.13	82.83	1.03
10039	LA-Upland	1.06	82.83	1.03
10040	LA-Upland	1.18	82.83	1.03
10041	LA-Upland	1.01	82.83	1.03
10042	LA-Upland	0.14	82.83	1.03
10043	LA-Upland	0.00	82.83	1.03
10044	LA-Upland	0.00	82.83	1.03
10045	LA-Upland	0.00	82.83	1.03
10046	LA-Upland	0.00	82.83	1.03
10047	LA-Upland	0.00	82.83	1.03
10048	LA-Upland	0.47	82.83	1.03
10049	LA-Upland	0.29	82.83	1.03
10050	LA-Upland	0.00	82.83	1.03
10051	LA-Upland	0.00	82.83	1.03
10052	LA-Upland	0.00	82.83	1.03
10053	LA-Upland	1.95	82.83	1.03
10054	LA-Upland	5.13	82.83	1.03
10055	LA-Upland	6.67	82.83	1.03
10056	LA-Upland	9.12	82.84	1.03
10057	LA-Upland	10.80	82.84	1.03
10058	LA-Upland	12.01	82.84	1.03
10059	LA-Upland	12.92	82.85	1.03
10060	LA-Upland	9.97	82.85	1.03
10061	LA-Upland	4.97	82.85	0.96
10062	LA-Upland	0.67	82.85	0.96

time [s]	route	speed [mph]	distance [mi]	grade (%)
10141	LA-Upland	0.00	82.92	0.96
10142	LA-Upland	0.00	82.92	0.96
10143	LA-Upland	0.00	82.92	0.96
10144	LA-Upland	0.00	82.92	0.96
10145	LA-Upland	0.00	82.92	0.96
10146	LA-Upland	0.00	82.92	0.96
10147	LA-Upland	0.00	82.92	0.96
10148	LA-Upland	0.16	82.92	0.96
10149	LA-Upland	1.09	82.92	0.96
10150	LA-Upland	0.00	82.92	0.96
10151	LA-Upland	0.95	82.92	0.96
10152	LA-Upland	4.40	82.92	0.96
10153	LA-Upland	8.31	82.92	0.96
10154	LA-Upland	10.83	82.92	0.96
10155	LA-Upland	11.78	82.93	0.96
10156	LA-Upland	12.69	82.93	0.96
10157	LA-Upland	12.78	82.93	0.96
10158	LA-Upland	12.55	82.94	0.96
10159	LA-Upland	12.11	82.94	0.96
10160	LA-Upland	10.76	82.94	0.96
10161	LA-Upland	9.06	82.95	0.96
10162	LA-Upland	7.44	82.95	0.96
10163	LA-Upland	6.55	82.95	0.96
10164	LA-Upland	5.78	82.95	1.85
10165	LA-Upland	5.25	82.95	1.85
10166	LA-Upland	5.42	82.95	1.85
10167	LA-Upland	6.45	82.96	1.85
10168	LA-Upland	7.34	82.96	1.85
10169	LA-Upland	6.57	82.96	1.85
10170	LA-Upland	4.40	82.96	1.85
10171	LA-Upland	2.14	82.96	1.85
10172	LA-Upland	0.16	82.96	1.85
10173	LA-Upland	0.00	82.96	1.85
10174	LA-Upland	0.00	82.96	1.85
10175	LA-Upland	0.00	82.96	1.85
10176	LA-Upland	0.00	82.96	1.85
10177	LA-Upland	0.00	82.96	1.85
10178	LA-Upland	0.00	82.96	1.85
10179	LA-Upland	0.00	82.96	1.85
10180	LA-Upland	0.00	82.96	1.85
10181	LA-Upland	0.15	82.96	1.85
10182	LA-Upland	0.15	82.96	1.85
10183	LA-Upland	0.00	82.96	1.85
10184	LA-Upland	0.15	82.96	1.85
10185	LA-Upland	2.01	82.96	1.85
10186	LA-Upland	3.28	82.96	1.85
10187	LA-Upland	2.25	82.96	1.85
10188	LA-Upland	0.62	82.96	1.85
10189	LA-Upland	0.00	82.96	1.85
10190	LA-Upland	0.16	82.96	1.85
10191	LA-Upland	0.17	82.96	1.85
10192	LA-Upland	0.00	82.96	1.85
10193	LA-Upland	0.00	82.96	1.85
10194	LA-Upland	0.00	82.96	1.85
10195	LA-Upland	0.00	82.96	1.85
10196	LA-Upland	0.00	82.96	1.85
10197	LA-Upland	0.00	82.96	1.85
10198	LA-Upland	0.00	82.96	1.85
10199	LA-Upland	0.13	82.96	1.85
10200	LA-Upland	0.00	82.96	1.85
10201	LA-Upland	0.00	82.96	1.85
10202	LA-Upland	0.98	82.96	1.85
10203	LA-Upland	3.63	82.97	1.85
10204	LA-Upland	4.92	82.97	1.85
10205	LA-Upland	4.17	82.97	1.85
10206	LA-Upland	4.25	82.97	1.85
10207	LA-Upland	4.10	82.97	1.85
10208	LA-Upland	3.89	82.97	1.85
10209	LA-Upland	1.97	82.97	1.85
10210	LA-Upland	0.37	82.97	1.85
10211	LA-Upland	0.00	82.97	1.85
10212	LA-Upland	0.00	82.97	1.85
10213	LA-Upland	0.00	82.97	1.85
10214	LA-Upland	0.00	82.97	1.85
10215	LA-Upland	0.00	82.97	1.85
10216	LA-Upland	0.63	82.97	1.85
10217	LA-Upland	4.23	82.97	1.85
10218	LA-Upland	6.91	82.97	1.85

time [s]	route	speed [mph]	distance [mi]	grade (%)
10063	LA-Upland	0.00	82.85	0.96
10064	LA-Upland	0.00	82.85	0.96
10065	LA-Upland	0.14	82.85	0.96
10066	LA-Upland	2.28	82.85	0.96
10067	LA-Upland	6.09	82.85	0.96
10068	LA-Upland	9.44	82.86	0.96
10069	LA-Upland	12.48	82.86	0.96
10070	LA-Upland	15.04	82.86	0.96
10071	LA-Upland	17.54	82.87	0.96
10072	LA-Upland	19.38	82.87	0.96
10073	LA-Upland	19.61	82.88	0.96
10074	LA-Upland	18.68	82.88	0.96
10075	LA-Upland	16.09	82.89	0.96
10076	LA-Upland	12.95	82.89	0.96
10077	LA-Upland	9.79	82.90	0.96
10078	LA-Upland	6.63	82.90	0.96
10079	LA-Upland	4.57	82.90	0.96
10080	LA-Upland	3.09	82.90	0.96
10081	LA-Upland	1.87	82.90	0.96
10082	LA-Upland	2.11	82.90	0.96
10083	LA-Upland	1.95	82.90	0.96
10084	LA-Upland	1.28	82.90	0.96
10085	LA-Upland	0.89	82.90	0.96
10086	LA-Upland	0.75	82.90	0.96
10087	LA-Upland	0.28	82.90	0.96
10088	LA-Upland	1.02	82.90	0.96
10089	LA-Upland	0.54	82.90	0.96
10090	LA-Upland	0.00	82.90	0.96
10091	LA-Upland	0.00	82.90	0.96
10092	LA-Upland	0.00	82.90	0.96
10093	LA-Upland	0.00	82.90	0.96
10094	LA-Upland	0.00	82.90	0.96
10095	LA-Upland	0.00	82.90	0.96
10096	LA-Upland	0.00	82.90	0.96
10097	LA-Upland	0.28	82.90	0.96
10098	LA-Upland	0.89	82.90	0.96
10099	LA-Upland	1.56	82.90	0.96
10100	LA-Upland	2.16	82.90	0.96
10101	LA-Upland	1.85	82.90	0.96
10102	LA-Upland	1.28	82.90	0.96
10103	LA-Upland	1.11	82.90	0.96
10104	LA-Upland	1.47	82.91	0.96
10105	LA-Upland	1.89	82.91	0.96
10106	LA-Upland	1.38	82.91	0.96
10107	LA-Upland	0.51	82.91	0.96
10108	LA-Upland	0.00	82.91	0.96
10109	LA-Upland	0.00	82.91	0.96
10110	LA-Upland	0.00	82.91	0.96
10111	LA-Upland	0.00	82.91	0.96
10112	LA-Upland	0.16	82.91	0.96
10113	LA-Upland	1.22	82.91	0.96
10114	LA-Upland	2.16	82.91	0.96
10115	LA-Upland	4.10	82.91	0.96
10116	LA-Upland	5.26	82.91	0.96
10117	LA-Upland	4.96	82.91	0.96
10118	LA-Upland	3.78	82.91	0.96
10119	LA-Upland	3.74	82.91	0.96
10120	LA-Upland	3.60	82.91	0.96
10121	LA-Upland	2.89	82.91	0.96
10122	LA-Upland	2.00	82.92	0.96
10123	LA-Upland	1.23	82.92	0.96
10124	LA-Upland	0.51	82.92	0.96
10125	LA-Upland	0.00	82.92	0.96
10126	LA-Upland	0.00	82.92	0.96
10127	LA-Upland	0.00	82.92	0.96
10128	LA-Upland	0.00	82.92	0.96
10129	LA-Upland	0.00	82.92	0.96
10130	LA-Upland	0.00	82.92	0.96
10131	LA-Upland	0.00	82.92	0.96
10132	LA-Upland	0.00	82.92	0.96
10133	LA-Upland	0.00	82.92	0.96
10134	LA-Upland	0.00		

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries from 10297 to 10374.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries from 10375 to 10452.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries from 10453 to 10530.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries from 10531 to 10608.

time (s)	route	speed (mph)	distance (mi)	grade (%)
10609	LA-Upland	7.22	83.58	0.13
10610	LA-Upland	8.93	83.58	0.13
10611	LA-Upland	10.56	83.58	0.13
10612	LA-Upland	12.28	83.59	0.13
10613	LA-Upland	13.03	83.59	0.13
10614	LA-Upland	12.97	83.59	0.13
10615	LA-Upland	13.24	83.60	0.13
10616	LA-Upland	14.83	83.60	0.13
10617	LA-Upland	15.07	83.61	0.13
10618	LA-Upland	16.68	83.61	0.13
10619	LA-Upland	18.62	83.61	0.13
10620	LA-Upland	19.57	83.62	0.13
10621	LA-Upland	20.11	83.63	0.13
10622	LA-Upland	20.54	83.63	0.13
10623	LA-Upland	20.14	83.64	0.13
10624	LA-Upland	20.60	83.64	0.13
10625	LA-Upland	21.55	83.65	0.13
10626	LA-Upland	22.42	83.65	0.55
10627	LA-Upland	23.55	83.66	0.55
10628	LA-Upland	24.89	83.67	0.55
10629	LA-Upland	26.32	83.68	0.55
10630	LA-Upland	27.34	83.68	0.55
10631	LA-Upland	28.68	83.69	0.55
10632	LA-Upland	29.80	83.70	0.55
10633	LA-Upland	29.79	83.71	0.55
10634	LA-Upland	30.07	83.72	0.55
10635	LA-Upland	30.65	83.72	0.55
10636	LA-Upland	30.75	83.73	0.55
10637	LA-Upland	31.33	83.74	0.55
10638	LA-Upland	31.16	83.75	0.55
10639	LA-Upland	30.61	83.76	0.05
10640	LA-Upland	30.22	83.77	-0.05
10641	LA-Upland	29.87	83.77	-0.05
10642	LA-Upland	29.49	83.78	-0.05
10643	LA-Upland	29.14	83.79	-0.05
10644	LA-Upland	28.18	83.80	-0.05
10645	LA-Upland	26.71	83.81	-0.05
10646	LA-Upland	24.73	83.81	-0.05
10647	LA-Upland	22.91	83.82	-0.05
10648	LA-Upland	20.67	83.82	-0.05
10649	LA-Upland	18.86	83.83	-0.05
10650	LA-Upland	15.53	83.83	-0.05
10651	LA-Upland	12.93	83.84	-0.05
10652	LA-Upland	10.71	83.84	-0.05
10653	LA-Upland	8.93	83.84	-0.05
10654	LA-Upland	7.23	83.84	-0.05
10655	LA-Upland	6.67	83.85	-0.05
10656	LA-Upland	6.54	83.85	-0.05
10657	LA-Upland	8.81	83.85	-1.53
10658	LA-Upland	11.19	83.85	-1.53
10659	LA-Upland	12.85	83.86	-1.53
10660	LA-Upland	14.72	83.86	-1.53
10661	LA-Upland	16.73	83.87	-1.53
10662	LA-Upland	18.84	83.87	-1.53
10663	LA-Upland	20.64	83.88	-1.53
10664	LA-Upland	22.26	83.88	-1.53
10665	LA-Upland	22.93	83.89	-1.53
10666	LA-Upland	22.55	83.90	-1.53
10667	LA-Upland	23.19	83.90	-1.53
10668	LA-Upland	24.22	83.91	-1.53
10669	LA-Upland	24.63	83.91	-1.53
10670	LA-Upland	24.61	83.92	-1.53
10671	LA-Upland	23.93	83.93	-1.53
10672	LA-Upland	23.53	83.93	-1.53
10673	LA-Upland	23.17	83.94	-1.53
10674	LA-Upland	22.61	83.95	-1.53
10675	LA-Upland	21.89	83.95	-0.72
10676	LA-Upland	21.22	83.96	-0.72
10677	LA-Upland	20.56	83.96	-0.72
10678	LA-Upland	20.03	83.97	-0.72
10679	LA-Upland	19.00	83.98	-0.72
10680	LA-Upland	17.99	83.98	-0.72
10681	LA-Upland	15.16	83.98	-0.72
10682	LA-Upland	13.25	83.99	-0.72
10683	LA-Upland	11.69	83.99	-0.72
10684	LA-Upland	10.02	83.99	-0.72
10685	LA-Upland	8.20	84.00	-0.72
10686	LA-Upland	6.12	84.00	-0.72

time (s)	route	speed (mph)	distance (mi)	grade (%)
10765	LA-Upland	9.27	84.33	0.47
10766	LA-Upland	4.74	84.33	0.47
10767	LA-Upland	1.28	84.33	0.47
10768	LA-Upland	0.00	84.33	0.47
10769	LA-Upland	0.00	84.33	0.47
10770	LA-Upland	0.00	84.33	0.47
10771	LA-Upland	0.00	84.33	0.47
10772	LA-Upland	0.00	84.33	0.47
10773	LA-Upland	0.00	84.33	0.47
10774	LA-Upland	0.00	84.33	0.47
10775	LA-Upland	0.00	84.33	0.47
10776	LA-Upland	0.00	84.33	0.47
10777	LA-Upland	0.00	84.33	0.47
10778	LA-Upland	0.00	84.33	0.47
10779	LA-Upland	0.00	84.33	0.47
10780	LA-Upland	0.00	84.33	0.47
10781	LA-Upland	0.00	84.33	0.47
10782	LA-Upland	0.00	84.33	0.47
10783	LA-Upland	2.19	84.34	0.47
10784	LA-Upland	7.34	84.34	0.47
10785	LA-Upland	11.61	84.34	0.47
10786	LA-Upland	14.32	84.34	0.47
10787	LA-Upland	16.42	84.35	0.47
10788	LA-Upland	18.36	84.35	-1.05
10789	LA-Upland	20.76	84.36	-1.05
10790	LA-Upland	23.07	84.37	-1.05
10791	LA-Upland	25.90	84.37	-1.05
10792	LA-Upland	28.98	84.38	-1.05
10793	LA-Upland	30.33	84.39	-1.05
10794	LA-Upland	32.43	84.40	-1.05
10795	LA-Upland	34.18	84.41	-1.05
10796	LA-Upland	34.93	84.42	-1.05
10797	LA-Upland	35.24	84.43	-1.05
10798	LA-Upland	35.63	84.44	-1.05
10799	LA-Upland	36.43	84.45	-1.05
10800	LA-Upland	35.14	84.46	1.06
10801	LA-Upland	35.58	84.47	1.06
10802	LA-Upland	35.99	84.48	1.06
10803	LA-Upland	36.66	84.49	1.06
10804	LA-Upland	36.08	84.50	1.06
10805	LA-Upland	35.13	84.51	1.06
10806	LA-Upland	34.06	84.51	1.06
10807	LA-Upland	29.47	84.52	1.06
10808	LA-Upland	23.41	84.53	1.06
10809	LA-Upland	19.66	84.53	1.06
10810	LA-Upland	18.03	84.54	1.06
10811	LA-Upland	18.30	84.54	1.06
10812	LA-Upland	20.74	84.55	1.61
10813	LA-Upland	23.46	84.56	5.61
10814	LA-Upland	24.28	84.56	5.61
10815	LA-Upland	24.11	84.57	5.61
10816	LA-Upland	24.50	84.58	5.61
10817	LA-Upland	24.82	84.58	5.61
10818	LA-Upland	25.45	84.59	5.61
10819	LA-Upland	25.62	84.60	5.61
10820	LA-Upland	24.77	84.60	5.61
10821	LA-Upland	23.02	84.61	5.61
10822	LA-Upland	20.88	84.62	5.61
10823	LA-Upland	18.78	84.62	5.61
10824	LA-Upland	17.41	84.63	5.61
10825	LA-Upland	16.95	84.63	5.61
10826	LA-Upland	17.83	84.64	5.61
10827	LA-Upland	19.35	84.64	5.61
10828	LA-Upland	19.68	84.65	5.61
10829	LA-Upland	18.57	84.65	5.61
10830	LA-Upland	16.71	84.66	-0.83
10831	LA-Upland	14.30	84.66	-0.83
10832	LA-Upland	11.59	84.66	-0.83
10833	LA-Upland	8.91	84.67	-0.83
10834	LA-Upland	6.18	84.67	-0.83
10835	LA-Upland	5.56	84.67	-0.83
10836	LA-Upland	7.45	84.67	-0.83
10837	LA-Upland	9.76	84.67	-0.83
10838	LA-Upland	9.62	84.68	-0.83
10839	LA-Upland	6.89	84.68	-0.83
10840	LA-Upland	4.49	84.68	-0.83
10841	LA-Upland	4.07	84.68	-0.83
10842	LA-Upland	5.42	84.68	-0.83

time (s)	route	speed (mph)	distance (mi)	grade (%)
10687	LA-Upland	4.71	84.00	-0.72
10688	LA-Upland	3.92	84.00	-0.72
10689	LA-Upland	3.57	84.00	-0.72
10690	LA-Upland	2.80	84.00	-0.72
10691	LA-Upland	1.84	84.00	-0.72
10692	LA-Upland	0.39	84.00	-0.72
10693	LA-Upland	0.00	84.00	-0.72
10694	LA-Upland	0.00	84.00	-0.72
10695	LA-Upland	0.00	84.00	-0.72
10696	LA-Upland	0.00	84.00	-0.72
10697	LA-Upland	0.00	84.00	-0.72
10698	LA-Upland	0.00	84.00	-0.72
10699	LA-Upland	0.00	84.00	-0.72
10700	LA-Upland	0.00	84.00	-0.72
10701	LA-Upland	0.00	84.00	-0.72
10702	LA-Upland	0.00	84.00	-0.72
10703	LA-Upland	0.00	84.00	-0.72
10704	LA-Upland	0.00	84.00	-0.72
10705	LA-Upland	0.00	84.00	-0.72
10706	LA-Upland	0.00	84.00	-0.72
10707	LA-Upland	0.00	84.00	-0.72
10708	LA-Upland	0.00	84.00	-0.72
10709	LA-Upland	0.00	84.00	-0.72
10710	LA-Upland	0.00	84.00	-0.72
10711	LA-Upland	0.00	84.00	-0.72
10712	LA-Upland	0.00	84.00	-0.72
10713	LA-Upland	0.00	84.00	-0.72
10714	LA-Upland	1.18	84.00	-0.72
10715	LA-Upland	4.22	84.00	-0.72
10716	LA-Upland	7.44	84.01	-0.72
10717	LA-Upland	10.86	84.01	-0.72
10718	LA-Upland	13.61	84.01	-0.72
10719	LA-Upland	16.11	84.02	-0.72
10720	LA-Upland	18.09	84.02	-0.72
10721	LA-Upland	20.00	84.03	-0.72
10722	LA-Upland	22.49	84.03	-0.72
10723	LA-Upland	24.36	84.04	-0.72
10724	LA-Upland	24.22	84.05	-0.72
10725	LA-Upland	23.80	84.05	0.56
10726	LA-Upland	24.51	84.06	0.56
10727	LA-Upland	25.77	84.07	0.56
10728	LA-Upland	27.03	84.08	0.56
10729	LA-Upland	28.02	84.08	0.56
10730	LA-Upland	29.07	84.09	0.56
10731	LA-Upland	30.56	84.10	0.56
10732	LA-Upland	30.51	84.11	0.56
10733	LA-Upland	30.40	84.12	0.56
10734	LA-Upland	31.28	84.12	0.56
10735	LA-Upland	30.80	84.13	0.56
10736	LA-Upland	31.23	84.14	0.56
10737	LA-Upland	32.38	84.15	-0.10
10738	LA-Upland	33.52	84.16	-0.10
10739	LA-Upland	32.75	84.17	-0.10
10740	LA-Upland	32.42	84.18	-0.10
10741	LA-Upland	31.77	84.19	-0.10
10742	LA-Upland	30.89	84.19	-0.10
10743	LA-Upland	30.13	84.20	-0.10
10744	LA-Upland	29.38	84.21	-0.10
10745	LA-Upland	27.40	84.22	-0.10
10746	LA-Upland	24.85	84.23	-0.10
10747	LA-Upland	21.83	84.23	-0.10
10748	LA-Upland	19.01	84.24	-0.10
10749	LA-Upland	16.15	84.24	-0.10
10750	LA-Upland	14.62	84.25	-0.10
10751	LA-Upland	14.67	84.25	-0.10
10752	LA-Upland	15.57	84.25	0.47
10753	LA-Upland	17.87	84.26	0.47
10754	LA-Upland	20.45	84.26	0.47
10755				

time (s)	route	speed (mph)	distance (mi)	grade (%)
10921	LA-Upland	11.80	84.95	3.39
10922	LA-Upland	13.81	84.95	3.39
10923	LA-Upland	15.13	84.95	2.23
10924	LA-Upland	14.86	84.96	2.23
10925	LA-Upland	14.12	84.96	2.23
10926	LA-Upland	12.40	84.97	2.23
10927	LA-Upland	10.26	84.97	2.23
10928	LA-Upland	8.16	84.97	2.23
10929	LA-Upland	6.40	84.97	2.23
10930	LA-Upland	5.89	84.97	2.23
10931	LA-Upland	5.80	84.98	2.23
10932	LA-Upland	6.14	84.98	2.23
10933	LA-Upland	6.34	84.98	2.23
10934	LA-Upland	6.63	84.98	2.23
10935	LA-Upland	8.13	84.98	2.23
10936	LA-Upland	8.06	84.98	2.23
10937	LA-Upland	7.30	84.99	2.23
10938	LA-Upland	5.82	84.99	2.23
10939	LA-Upland	4.64	84.99	2.23
10940	LA-Upland	4.86	84.99	2.23
10941	LA-Upland	7.06	84.99	2.23
10942	LA-Upland	10.06	85.00	2.23
10943	LA-Upland	11.39	85.00	2.23
10944	LA-Upland	10.97	85.00	2.23
10945	LA-Upland	11.75	85.01	2.23
10946	LA-Upland	13.62	85.01	2.23
10947	LA-Upland	15.13	85.01	2.23
10948	LA-Upland	15.71	85.02	2.23
10949	LA-Upland	15.00	85.02	2.23
10950	LA-Upland	13.94	85.03	2.23
10951	LA-Upland	11.61	85.03	2.23
10952	LA-Upland	8.72	85.03	2.23
10953	LA-Upland	5.80	85.03	2.23
10954	LA-Upland	4.57	85.03	2.23
10955	LA-Upland	3.90	85.03	2.23
10956	LA-Upland	4.09	85.04	2.23
10957	LA-Upland	4.53	85.04	2.23
10958	LA-Upland	5.45	85.04	2.23
10959	LA-Upland	8.10	85.04	2.23
10960	LA-Upland	10.94	85.04	2.23
10961	LA-Upland	13.34	85.05	2.23
10962	LA-Upland	15.60	85.05	0.92
10963	LA-Upland	16.83	85.06	0.92
10964	LA-Upland	16.32	85.06	0.92
10965	LA-Upland	15.99	85.07	0.92
10966	LA-Upland	17.04	85.07	0.92
10967	LA-Upland	19.22	85.08	0.92
10968	LA-Upland	21.36	85.08	0.92
10969	LA-Upland	21.76	85.09	0.92
10970	LA-Upland	21.20	85.09	0.92
10971	LA-Upland	20.01	85.10	0.92
10972	LA-Upland	19.53	85.10	0.92
10973	LA-Upland	19.11	85.11	0.92
10974	LA-Upland	18.84	85.11	0.92
10975	LA-Upland	18.62	85.12	0.92
10976	LA-Upland	19.48	85.12	0.92
10977	LA-Upland	21.38	85.13	0.92
10978	LA-Upland	22.75	85.14	0.92
10979	LA-Upland	22.61	85.14	0.92
10980	LA-Upland	21.32	85.15	0.92
10981	LA-Upland	17.85	85.15	-0.21
10982	LA-Upland	13.39	85.16	-0.21
10983	LA-Upland	10.18	85.16	-0.21
10984	LA-Upland	9.63	85.16	-0.21
10985	LA-Upland	12.07	85.17	-0.21
10986	LA-Upland	14.72	85.17	-0.21
10987	LA-Upland	17.47	85.18	-0.21
10988	LA-Upland	20.05	85.18	-0.21
10989	LA-Upland	22.65	85.19	-0.21
10990	LA-Upland	25.51	85.19	-0.21
10991	LA-Upland	27.88	85.20	-0.21
10992	LA-Upland	28.99	85.21	-0.21
10993	LA-Upland	28.35	85.22	-0.21
10994	LA-Upland	27.33	85.22	-0.21
10995	LA-Upland	26.40	85.23	-0.21
10996	LA-Upland	25.76	85.24	-0.21
10997	LA-Upland	25.31	85.25	-0.21
10998	LA-Upland	23.16	85.25	-0.23

time (s)	route	speed (mph)	distance (mi)	grade (%)
11077	LA-Upland	55.49	86.14	2.02
11078	LA-Upland	55.79	86.15	-3.03
11079	LA-Upland	56.09	86.17	-3.03
11080	LA-Upland	56.45	86.18	-3.03
11081	LA-Upland	57.18	86.20	-3.03
11082	LA-Upland	57.55	86.21	-3.03
11083	LA-Upland	57.86	86.23	-3.03
11084	LA-Upland	58.44	86.25	-3.03
11085	LA-Upland	58.52	86.26	-3.93
11086	LA-Upland	58.75	86.28	-3.93
11087	LA-Upland	59.02	86.29	-3.93
11088	LA-Upland	59.36	86.31	-3.93
11089	LA-Upland	60.19	86.33	-3.93
11090	LA-Upland	61.18	86.34	-3.93
11091	LA-Upland	62.30	86.36	-3.37
11092	LA-Upland	62.71	86.38	-3.37
11093	LA-Upland	62.88	86.40	-3.37
11094	LA-Upland	62.70	86.41	-3.37
11095	LA-Upland	62.60	86.43	-3.37
11096	LA-Upland	62.95	86.45	-3.37
11097	LA-Upland	62.91	86.46	-5.18
11098	LA-Upland	62.48	86.48	-5.18
11099	LA-Upland	62.29	86.50	-5.18
11100	LA-Upland	62.21	86.52	-5.18
11101	LA-Upland	62.04	86.53	-5.18
11102	LA-Upland	61.83	86.55	-2.61
11103	LA-Upland	62.25	86.57	-2.61
11104	LA-Upland	62.61	86.58	-2.61
11105	LA-Upland	62.03	86.60	-2.61
11106	LA-Upland	60.48	86.62	-2.61
11107	LA-Upland	59.73	86.63	-2.61
11108	LA-Upland	58.95	86.65	1.63
11109	LA-Upland	57.35	86.67	1.63
11110	LA-Upland	55.74	86.68	1.63
11111	LA-Upland	52.35	86.70	1.63
11112	LA-Upland	47.37	86.71	1.63
11113	LA-Upland	42.20	86.72	1.63
11114	LA-Upland	37.01	86.73	1.63
11115	LA-Upland	32.21	86.74	1.63
11116	LA-Upland	28.78	86.75	1.63
11117	LA-Upland	26.63	86.76	1.54
11118	LA-Upland	25.31	86.76	1.54
11119	LA-Upland	25.02	86.77	1.54
11120	LA-Upland	25.97	86.78	1.54
11121	LA-Upland	27.70	86.78	1.54
11122	LA-Upland	29.44	86.79	1.54
11123	LA-Upland	30.67	86.80	1.54
11124	LA-Upland	30.54	86.81	1.54
11125	LA-Upland	30.35	86.82	1.54
11126	LA-Upland	31.50	86.83	1.54
11127	LA-Upland	32.71	86.83	1.54
11128	LA-Upland	33.52	86.84	1.54
11129	LA-Upland	34.14	86.85	2.01
11130	LA-Upland	33.63	86.86	2.01
11131	LA-Upland	33.96	86.87	2.01
11132	LA-Upland	33.60	86.88	2.01
11133	LA-Upland	33.22	86.89	2.01
11134	LA-Upland	33.70	86.90	2.01
11135	LA-Upland	34.73	86.91	2.01
11136	LA-Upland	36.24	86.92	2.01
11137	LA-Upland	37.92	86.93	2.01
11138	LA-Upland	39.88	86.94	2.01
11139	LA-Upland	42.09	86.95	0.62
11140	LA-Upland	44.13	86.96	0.62
11141	LA-Upland	45.83	86.98	0.62
11142	LA-Upland	46.90	86.99	0.62
11143	LA-Upland	46.94	87.00	0.62
11144	LA-Upland	46.80	87.02	0.62
11145	LA-Upland	46.79	87.03	0.62
11146	LA-Upland	47.40	87.04	0.62
11147	LA-Upland	48.17	87.05	-0.60
11148	LA-Upland	48.53	87.07	-0.60
11149	LA-Upland	49.86	87.08	-0.60
11150	LA-Upland	51.03	87.10	-0.60
11151	LA-Upland	52.13	87.11	-0.60
11152	LA-Upland	53.30	87.12	-0.60
11153	LA-Upland	54.49	87.14	-0.60
11154	LA-Upland	55.24	87.15	-1.26

time (s)	route	speed (mph)	distance (mi)	grade (%)
10999	LA-Upland	20.01	85.26	-0.23
11000	LA-Upland	18.51	85.26	-0.23
11001	LA-Upland	18.96	85.27	-0.23
11002	LA-Upland	20.51	85.27	-0.23
11003	LA-Upland	21.52	85.28	-0.23
11004	LA-Upland	22.63	85.29	-0.23
11005	LA-Upland	23.78	85.29	-0.23
11006	LA-Upland	24.81	85.30	-0.23
11007	LA-Upland	26.42	85.31	-0.23
11008	LA-Upland	29.37	85.31	-0.23
11009	LA-Upland	31.55	85.32	-0.23
11010	LA-Upland	32.88	85.33	-0.23
11011	LA-Upland	34.80	85.34	-0.23
11012	LA-Upland	36.99	85.35	0.93
11013	LA-Upland	37.44	85.36	0.93
11014	LA-Upland	36.99	85.37	0.93
11015	LA-Upland	37.91	85.38	0.93
11016	LA-Upland	38.37	85.39	0.93
11017	LA-Upland	38.02	85.40	0.93
11018	LA-Upland	38.25	85.41	0.93
11019	LA-Upland	38.06	85.43	0.93
11020	LA-Upland	38.72	85.44	0.93
11021	LA-Upland	39.56	85.45	0.93
11022	LA-Upland	40.50	85.46	1.11
11023	LA-Upland	41.13	85.47	1.11
11024	LA-Upland	41.48	85.48	1.11
11025	LA-Upland	40.78	85.49	1.11
11026	LA-Upland	39.95	85.50	1.11
11027	LA-Upland	39.08	85.51	1.11
11028	LA-Upland	38.35	85.52	1.11
11029	LA-Upland	37.48	85.53	1.11
11030	LA-Upland	36.64	85.54	1.11
11031	LA-Upland	36.68	85.55	-1.15
11032	LA-Upland	37.46	85.56	-1.15
11033	LA-Upland	38.18	85.58	-1.15
11034	LA-Upland	38.77	85.59	-1.15
11035	LA-Upland	39.44	85.60	-1.15
11036	LA-Upland	40.22	85.61	-1.15
11037	LA-Upland	41.41	85.62	-1.15
11038	LA-Upland	42.66	85.63	-1.15
11039	LA-Upland	43.80	85.64	-1.15
11040	LA-Upland	44.63	85.66	3.46
11041	LA-Upland	44.55	85.67	3.46
11042	LA-Upland	43.80	85.68	3.46
11043	LA-Upland	43.07	85.69	3.46
11044	LA-Upland	42.64	85.70	3.46
11045	LA-Upland	42.37	85.71	3.46
11046	LA-Upland	41.82	85.73	3.46
11047	LA-Upland	42.03	85.74	3.46
11048	LA-Upland	42.01	85.75	3.46
11049	LA-Upland	41.22	85.76	1.44
11050	LA-Upland	41.02	85.77	1.44
11051	LA-Upland	41.45	85.78	1.44
11052	LA-Upland	42.10	85.80	1.44
11053	LA-Upland	42.02	85.81	1.44
11054	LA-Upland	44.07	85.82	1.44
11055	LA-Upland	45.03	85.83	1.44
11056	LA-Upland	45.48	85.84	1.44
11057	LA-Upland	46.18	85.86	0.63
11058	LA-Upland	46.50	85.87	0.63
11059	LA-Upland	46.75	85.88	0.63
11060	LA-Upland	47.25	85.90	0.63
11061	LA-Upland	47.52	85.91	0.63
11062	LA-Upland	47.96	85.92	0.63
11063	LA-Upland	48.31	85.93	0.63
11064	LA-Upland	48.54	85.95	0.63
11065	LA-Upland	48.60	85.96	0.97
11066	LA-Upland	48.71	85.97	0.97
11067				

time (s)	route	speed (mph)	distance (mi)	grade (%)
12233	LA-Upland	65.33	88.47	1.88
12234	LA-Upland	65.22	88.48	1.88
12235	LA-Upland	65.18	88.50	1.88
12236	LA-Upland	64.71	88.52	1.88
12237	LA-Upland	63.78	88.54	1.88
12238	LA-Upland	63.42	88.55	1.44
12239	LA-Upland	63.98	88.57	1.44
12240	LA-Upland	64.60	88.59	1.44
12241	LA-Upland	65.52	88.61	1.44
12242	LA-Upland	66.44	88.63	1.44
12243	LA-Upland	67.05	88.64	1.44
12244	LA-Upland	67.71	88.66	0.54
12245	LA-Upland	68.23	88.68	0.54
12246	LA-Upland	68.37	88.70	0.54
12247	LA-Upland	67.92	88.72	0.54
12248	LA-Upland	67.46	88.74	0.54
12249	LA-Upland	67.11	88.76	-0.67
12250	LA-Upland	66.44	88.77	-0.67
12251	LA-Upland	65.18	88.79	-0.67
12252	LA-Upland	64.26	88.81	-0.67
12253	LA-Upland	64.63	88.83	-0.67
12254	LA-Upland	65.37	88.85	-0.67
12255	LA-Upland	65.95	88.86	0.77
12256	LA-Upland	66.82	88.88	0.77
12257	LA-Upland	67.62	88.90	0.77
12258	LA-Upland	68.22	88.92	0.77
12259	LA-Upland	68.52	88.94	0.77
12260	LA-Upland	68.71	88.96	1.79
12261	LA-Upland	68.94	88.98	1.79
12262	LA-Upland	69.17	88.99	1.79
12263	LA-Upland	69.60	89.01	1.79
12264	LA-Upland	69.74	89.03	1.79
12265	LA-Upland	70.05	89.05	1.17
12266	LA-Upland	70.58	89.07	1.17
12267	LA-Upland	71.20	89.09	1.17
12268	LA-Upland	71.82	89.11	1.17
12269	LA-Upland	72.47	89.13	1.17
12270	LA-Upland	72.95	89.15	1.05
12271	LA-Upland	73.32	89.17	1.05
12272	LA-Upland	73.55	89.19	1.05
12273	LA-Upland	73.81	89.21	1.05
12274	LA-Upland	73.87	89.23	1.05
12275	LA-Upland	74.03	89.25	0.91
12276	LA-Upland	74.04	89.27	0.91
12277	LA-Upland	73.12	89.29	0.91
12278	LA-Upland	71.72	89.31	0.91
12279	LA-Upland	70.55	89.33	0.91
12280	LA-Upland	69.36	89.35	0.67
12281	LA-Upland	67.95	89.37	1.07
12282	LA-Upland	66.02	89.39	1.07
12283	LA-Upland	64.59	89.41	1.07
12284	LA-Upland	63.54	89.42	1.07
12285	LA-Upland	63.64	89.44	1.07
12286	LA-Upland	64.10	89.46	1.81
12287	LA-Upland	64.72	89.48	1.81
12288	LA-Upland	65.49	89.49	1.81
12289	LA-Upland	66.24	89.51	1.81
12290	LA-Upland	67.09	89.53	1.81
12291	LA-Upland	67.46	89.55	1.81
12292	LA-Upland	66.74	89.57	1.53
12293	LA-Upland	65.39	89.59	1.53
12294	LA-Upland	64.95	89.60	1.53
12295	LA-Upland	65.14	89.62	1.53
12296	LA-Upland	65.65	89.64	1.53
12297	LA-Upland	66.65	89.66	1.56
12298	LA-Upland	66.49	89.68	2.16
12299	LA-Upland	67.00	89.69	2.16
12300	LA-Upland	67.23	89.71	2.16
12301	LA-Upland	67.59	89.73	2.16
12302	LA-Upland	67.23	89.75	2.16
12303	LA-Upland	67.28	89.77	2.09
12304	LA-Upland	67.60	89.79	2.09
12305	LA-Upland	68.01	89.81	2.09
12306	LA-Upland	68.44	89.82	2.09
12307	LA-Upland	68.82	89.84	2.09
12308	LA-Upland	69.00	89.86	1.24
12309	LA-Upland	69.31	89.88	1.24
12310	LA-Upland	69.70	89.90	1.24

time (s)	route	speed (mph)	distance (mi)	grade (%)
12319	LA-Upland	56.60	91.41	1.58
12320	LA-Upland	56.73	91.43	1.58
12321	LA-Upland	57.36	91.44	1.58
12322	LA-Upland	58.00	91.46	3.44
12323	LA-Upland	58.35	91.47	3.44
12324	LA-Upland	58.58	91.49	3.44
12325	LA-Upland	58.57	91.51	3.44
12326	LA-Upland	58.55	91.52	3.44
12327	LA-Upland	58.73	91.54	3.44
12328	LA-Upland	58.95	91.55	1.89
12329	LA-Upland	59.49	91.57	1.89
12330	LA-Upland	60.05	91.59	1.89
12331	LA-Upland	61.00	91.60	1.89
12332	LA-Upland	61.70	91.62	1.89
12333	LA-Upland	62.17	91.64	1.89
12334	LA-Upland	62.45	91.66	1.60
12335	LA-Upland	62.75	91.67	1.60
12336	LA-Upland	62.98	91.69	1.60
12337	LA-Upland	63.05	91.71	1.60
12338	LA-Upland	63.50	91.72	1.60
12339	LA-Upland	64.01	91.74	1.60
12340	LA-Upland	64.74	91.76	1.46
12341	LA-Upland	65.39	91.78	1.46
12342	LA-Upland	65.83	91.80	1.46
12343	LA-Upland	66.57	91.81	1.46
12344	LA-Upland	66.89	91.83	1.46
12345	LA-Upland	66.97	91.85	1.35
12346	LA-Upland	67.09	91.87	1.35
12347	LA-Upland	67.03	91.89	1.35
12348	LA-Upland	67.31	91.91	1.35
12349	LA-Upland	67.56	91.93	1.35
12350	LA-Upland	67.63	91.94	1.35
12351	LA-Upland	67.75	91.96	0.83
12352	LA-Upland	68.07	91.98	0.83
12353	LA-Upland	68.63	92.00	0.83
12354	LA-Upland	69.19	92.02	0.83
12355	LA-Upland	69.57	92.04	0.83
12356	LA-Upland	69.91	92.06	4.10
12357	LA-Upland	70.14	92.08	4.10
12358	LA-Upland	70.39	92.10	4.10
12359	LA-Upland	70.56	92.12	4.10
12360	LA-Upland	70.71	92.13	4.10
12361	LA-Upland	70.92	92.15	1.35
12362	LA-Upland	71.20	92.17	1.35
12363	LA-Upland	71.31	92.19	1.35
12364	LA-Upland	71.17	92.21	1.35
12365	LA-Upland	70.98	92.23	1.35
12366	LA-Upland	71.15	92.25	0.23
12367	LA-Upland	71.38	92.27	0.23
12368	LA-Upland	71.64	92.29	0.23
12369	LA-Upland	71.96	92.31	-0.23
12370	LA-Upland	72.24	92.33	0.23
12371	LA-Upland	72.40	92.35	0.26
12372	LA-Upland	72.67	92.37	0.26
12373	LA-Upland	72.98	92.39	0.26
12374	LA-Upland	73.37	92.41	0.26
12375	LA-Upland	73.67	92.43	0.26
12376	LA-Upland	73.72	92.45	0.37
12377	LA-Upland	73.58	92.47	0.37
12378	LA-Upland	73.57	92.49	0.37
12379	LA-Upland	73.62	92.51	0.37
12380	LA-Upland	73.91	92.53	0.37
12381	LA-Upland	74.14	92.55	-0.54
12382	LA-Upland	74.33	92.57	-0.54
12383	LA-Upland	74.74	92.59	-0.54
12384	LA-Upland	74.98	92.61	-0.54
12385	LA-Upland	74.78	92.64	-0.54
12386	LA-Upland	73.96	92.66	-0.47
12387	LA-Upland	73.01	92.68	-0.47
12388	LA-Upland	72.29	92.70	-0.47
12389	LA-Upland	72.45	92.72	-0.47
12390	LA-Upland	71.98	92.74	-0.47
12391	LA-Upland	71.45	92.75	-0.52
12392	LA-Upland	71.26	92.77	-0.52
12393	LA-Upland	71.20	92.79	-0.52
12394	LA-Upland	70.80	92.81	-0.52
12395	LA-Upland	70.38	92.83	-0.52
12396	LA-Upland	69.61	92.85	-0.38

time (s)	route	speed (mph)	distance (mi)	grade (%)
12311	LA-Upland	70.27	89.92	1.24
12312	LA-Upland	70.98	89.94	1.24
12313	LA-Upland	71.54	89.96	-0.56
12314	LA-Upland	71.04	89.98	-0.56
12315	LA-Upland	69.88	90.00	-0.56
12316	LA-Upland	68.85	90.02	-0.56
12317	LA-Upland	67.54	90.04	-0.56
12318	LA-Upland	68.06	90.05	-0.45
12319	LA-Upland	68.42	90.07	-0.45
12320	LA-Upland	68.95	90.09	-0.45
12321	LA-Upland	69.27	90.11	-0.45
12322	LA-Upland	69.64	90.13	-0.45
12323	LA-Upland	70.11	90.15	-0.45
12324	LA-Upland	70.36	90.17	-0.89
12325	LA-Upland	70.62	90.19	0.89
12326	LA-Upland	70.88	90.21	0.89
12327	LA-Upland	70.82	90.23	0.89
12328	LA-Upland	70.53	90.25	0.89
12329	LA-Upland	70.28	90.27	1.07
12330	LA-Upland	70.07	90.28	1.07
12331	LA-Upland	68.59	90.30	-0.67
12332	LA-Upland	68.00	90.32	1.07
12333	LA-Upland	67.01	90.34	1.07
12334	LA-Upland	66.53	90.36	1.00
12335	LA-Upland	67.29	90.38	1.00
12336	LA-Upland	67.97	90.40	1.00
12337	LA-Upland	68.78	90.42	1.00
12338	LA-Upland	69.60	90.43	0.00
12339	LA-Upland	70.43	90.45	0.86
12340	LA-Upland	71.08	90.47	0.86
12341	LA-Upland	71.46	90.49	0.86
12342	LA-Upland	71.54	90.51	0.86
12343	LA-Upland	71.28	90.53	0.86
12344	LA-Upland	71.35	90.55	-0.56
12345	LA-Upland	71.85	90.57	-0.56
12346	LA-Upland	72.34	90.59	-0.56
12347	LA-Upland	72.96	90.61	-0.56
12348	LA-Upland	73.51	90.63	-0.56
12349	LA-Upland	73.73	90.65	-2.44
12350	LA-Upland	74.21	90.67	-2.44
12351	LA-Upland	74.66	90.69	-2.44
12352	LA-Upland	75.12	90.71	-2.44
12353	LA-Upland	75.36	90.73	-2.44
12354	LA-Upland	75.47	90.76	-2.89
12355	LA-Upland	75.28	90.78	-2.89
12356	LA-Upland	74.77	90.80	-2.89
12357	LA-Upland	74.59	90.82	-2.89
12358	LA-Upland	75.12	90.84	-2.89
12359	LA-Upland	75.16	90.86	-2.85
12360	LA-Upland	74.64	90.88	-2.85
12361	LA-Upland	74.36	90.90	-2.85
12362	LA-Upland	74.65	90.92	-2.85
12363	LA-Upland	74.68	90.94	-2.85
12364	LA-Upland	74.13	90.96	-2.95
12365	LA-Upland	73.60	90.98	-2.95
12366	LA-Upland	73.25	91.00	-2.95
12367	LA-Upland	72.75	91.02	-2.95
12368	LA-Upland	72.66	91.04	-2.95
12369	LA-Upland	71.32	91.06	-2.33
12370	LA-Upland	70.07	91.08	-2.33
12371	LA-Upland	69.13	91.10	-2.33
12372	LA-Upland	67.82	91.12	-2.33
12373	LA-Upland	66.87	91.14	-2.33
12374	LA-Upland	65.75	91.15	0.56
12375	LA-Upland	64.65	91.17	0.56
12376	LA-Upland	63.44	91.19	0.56
12377	LA-Upland	62.74	91.21	0.56
12378	LA-Upland	62.61	91.22	0

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 11545 through 11622.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 11623 through 11700.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 11701 through 11778.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 11779 through 11856.

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time (s)	route	speed (mph)	distance (mi)	grade (%)
11857	LA-Upland	68.63	99.30	-1.58
11858	LA-Upland	68.42	99.32	-1.58
11859	LA-Upland	68.00	99.34	-1.58
11860	LA-Upland	67.89	99.36	-1.52
11861	LA-Upland	66.82	99.38	2.32
11862	LA-Upland	66.98	99.40	2.32
11863	LA-Upland	66.21	99.41	2.32
11864	LA-Upland	65.24	99.43	2.32
11865	LA-Upland	64.32	99.45	2.32
11866	LA-Upland	63.66	99.47	0.85
11867	LA-Upland	62.87	99.48	0.85
11868	LA-Upland	62.35	99.50	0.85
11869	LA-Upland	61.92	99.52	0.85
11870	LA-Upland	61.56	99.54	0.85
11871	LA-Upland	60.97	99.55	1.21
11872	LA-Upland	60.84	99.57	1.21
11873	LA-Upland	61.16	99.59	1.21
11874	LA-Upland	61.60	99.60	1.21
11875	LA-Upland	62.30	99.62	1.21
11876	LA-Upland	63.07	99.64	1.21
11877	LA-Upland	62.74	99.65	-1.13
11878	LA-Upland	64.20	99.67	-1.13
11879	LA-Upland	64.24	99.69	-1.13
11880	LA-Upland	63.50	99.71	-1.13
11881	LA-Upland	63.01	99.72	-1.13
11882	LA-Upland	63.57	99.74	-1.13
11883	LA-Upland	64.30	99.76	0.24
11884	LA-Upland	65.04	99.78	0.24
11885	LA-Upland	65.49	99.80	0.24
11886	LA-Upland	65.87	99.81	0.24
11887	LA-Upland	66.00	99.83	0.24
11888	LA-Upland	65.44	99.85	0.24
11889	LA-Upland	64.87	99.87	-1.83
11890	LA-Upland	64.22	99.89	-1.83
11891	LA-Upland	63.63	99.90	-1.83
11892	LA-Upland	64.01	99.92	-1.83
11893	LA-Upland	64.58	99.94	-1.83
11894	LA-Upland	65.98	99.96	-1.42
11895	LA-Upland	66.98	99.97	-1.42
11896	LA-Upland	67.87	99.99	-1.42
11897	LA-Upland	68.43	100.01	-1.42
11898	LA-Upland	68.69	100.03	-1.42
11899	LA-Upland	68.96	100.05	-1.42
11900	LA-Upland	69.31	100.07	0.26
11901	LA-Upland	68.66	100.09	0.26
11902	LA-Upland	67.26	100.11	0.26
11903	LA-Upland	66.57	100.12	0.26
11904	LA-Upland	66.00	100.14	0.26
11905	LA-Upland	66.49	100.16	0.72
11906	LA-Upland	65.54	100.18	0.72
11907	LA-Upland	65.13	100.20	0.72
11908	LA-Upland	64.61	100.21	0.72
11909	LA-Upland	64.64	100.23	0.72
11910	LA-Upland	64.94	100.25	2.94
11911	LA-Upland	65.52	100.27	2.94
11912	LA-Upland	66.33	100.29	2.94
11913	LA-Upland	67.27	100.31	2.94
11914	LA-Upland	68.00	100.32	2.94
11915	LA-Upland	68.76	100.34	2.94
11916	LA-Upland	69.16	100.36	-0.31
11917	LA-Upland	69.28	100.38	-0.31
11918	LA-Upland	69.14	100.40	-0.31
11919	LA-Upland	68.81	100.42	-0.31
11920	LA-Upland	67.92	100.44	-0.31
11921	LA-Upland	67.58	100.46	-0.98
11922	LA-Upland	67.95	100.47	-0.98
11923	LA-Upland	68.19	100.49	-0.98
11924	LA-Upland	68.50	100.51	-1.98
11925	LA-Upland	68.80	100.53	-1.98
11926	LA-Upland	69.10	100.55	-2.32
11927	LA-Upland	69.31	100.57	-2.32
11928	LA-Upland	69.16	100.59	-2.32
11929	LA-Upland	68.80	100.61	-2.32
11930	LA-Upland	69.08	100.63	-2.32
11931	LA-Upland	69.13	100.65	-2.32
11932	LA-Upland	70.31	100.66	2.64
11933	LA-Upland	70.84	100.68	2.64
11934	LA-Upland	71.54	100.70	2.64

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time (s)	route	speed (mph)	distance (mi)	grade (%)
12013	LA-Upland	73.87	102.33	0.00
12014	LA-Upland	74.37	102.35	1.52
12015	LA-Upland	74.75	102.37	1.52
12016	LA-Upland	74.88	102.40	1.52
12017	LA-Upland	75.11	102.42	1.52
12018	LA-Upland	75.04	102.44	1.52
12019	LA-Upland	74.54	102.46	0.05
12020	LA-Upland	74.68	102.48	0.05
12021	LA-Upland	74.38	102.50	0.05
12022	LA-Upland	74.27	102.52	0.05
12023	LA-Upland	74.07	102.54	0.05
12024	LA-Upland	74.06	102.56	-0.49
12025	LA-Upland	74.19	102.58	-0.49
12026	LA-Upland	74.14	102.60	-0.49
12027	LA-Upland	74.45	102.62	-0.49
12028	LA-Upland	74.51	102.64	-0.49
12029	LA-Upland	74.71	102.66	-0.42
12030	LA-Upland	74.93	102.68	0.42
12031	LA-Upland	75.04	102.70	0.42
12032	LA-Upland	75.22	102.72	0.42
12033	LA-Upland	75.08	102.74	0.42
12034	LA-Upland	75.08	102.76	0.31
12035	LA-Upland	74.88	102.79	0.31
12036	LA-Upland	74.73	102.81	0.31
12037	LA-Upland	74.64	102.83	0.31
12038	LA-Upland	74.49	102.85	0.31
12039	LA-Upland	74.24	102.87	0.23
12040	LA-Upland	73.40	102.89	-0.23
12041	LA-Upland	72.40	102.91	0.23
12042	LA-Upland	72.36	102.93	0.23
12043	LA-Upland	72.49	102.95	0.23
12044	LA-Upland	72.67	102.97	0.24
12045	LA-Upland	72.99	102.99	0.24
12046	LA-Upland	73.24	103.01	0.24
12047	LA-Upland	73.30	103.03	0.24
12048	LA-Upland	73.02	103.05	0.24
12049	LA-Upland	72.07	103.07	-0.33
12050	LA-Upland	71.57	103.09	-0.33
12051	LA-Upland	71.50	103.11	-0.33
12052	LA-Upland	71.31	103.13	-0.33
12053	LA-Upland	71.07	103.15	-0.33
12054	LA-Upland	70.82	103.17	0.79
12055	LA-Upland	70.61	103.18	0.79
12056	LA-Upland	70.41	103.20	0.79
12057	LA-Upland	70.13	103.22	0.79
12058	LA-Upland	69.97	103.24	0.79
12059	LA-Upland	69.94	103.26	1.34
12060	LA-Upland	69.99	103.28	1.34
12061	LA-Upland	70.07	103.30	1.34
12062	LA-Upland	70.16	103.32	1.34
12063	LA-Upland	70.31	103.34	1.34
12064	LA-Upland	70.50	103.36	-0.04
12065	LA-Upland	70.78	103.38	-0.04
12066	LA-Upland	71.01	103.40	-0.04
12067	LA-Upland	71.21	103.42	0.04
12068	LA-Upland	71.36	103.44	0.04
12069	LA-Upland	71.50	103.46	0.20
12070	LA-Upland	71.63	103.48	0.20
12071	LA-Upland	71.84	103.50	0.20
12072	LA-Upland	71.88	103.52	0.20
12073	LA-Upland	71.95	103.54	0.20
12074	LA-Upland	72.02	103.56	0.44
12075	LA-Upland	71.96	103.57	0.44
12076	LA-Upland	71.98	103.59	0.44
12077	LA-Upland	71.93	103.61	0.44
12078	LA-Upland	71.89	103.63	0.44
12079	LA-Upland	71.83	103.65	0.60
12080	LA-Upland	71.80	103.67	0.60
12081	LA-Upland	71.66	103.69	0.60
12082	LA-Upland	71.56	103.71	0.60
12083	LA-Upland	71.51	103.73	0.60
12084	LA-Upland	71.49	103.75	0.92
12085	LA-Upland	71.52	103.77	0.92
12086	LA-Upland	71.49	103.79	0.92
12087	LA-Upland	71.47	103.81	0.92
12088	LA-Upland	71.56	103.83	0.92
12089	LA-Upland	71.78	103.85	1.01
12090	LA-Upland	72.12	103.87	1.01

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time (s)	route	speed (mph)	distance (mi)	grade (%)
11935	LA-Upland	70.74	100.72	2.64
11936	LA-Upland	70.25	100.74	2.64
11937	LA-Upland	70.50	100.76	0.13
11938	LA-Upland	69.93	100.78	0.13
11939	LA-Upland	69.17	100.80	0.13
11940	LA-Upland	67.26	100.82	0.13
11941	LA-Upland	64.78	100.84	0.13
11942	LA-Upland	62.30	100.85	0.06
11943	LA-Upland	61.53	100.87	0.06
11944	LA-Upland	61.91	100.89	0.06
11945	LA-Upland	63.41	100.91	0.06
11946	LA-Upland	66.42	100.92	0.06
11947	LA-Upland	68.73	100.94	0.06
11948	LA-Upland	70.73	100.96	0.05
11949	LA-Upland	72.00	100.98	0.05
11950	LA-Upland	73.02	101.00	0.05
11951	LA-Upland	73.87	101.02	0.05
11952	LA-Upland	74.52	101.04	0.05
11953	LA-Upland	75.14	101.06	0.41
11954	LA-Upland	75.71	101.08	0.41
11955	LA-Upland	76.31	101.10	0.41
11956	LA-Upland	76.82	101.13	0.41
11957	LA-Upland	77.01	101.15	0.41
11958	LA-Upland	76.53	101.17	0.96
11959	LA-Upland	76.78	101.19	0.96
11960	LA-Upland	76.64	101.21	0.96
11961	LA-Upland	76.73	101.23	0.96
11962	LA-Upland	76.94	101.25	0.96
11963	LA-Upland	77.22	101.27	2.01
11964	LA-Upland	77.56	101.30	2.01
11965	LA-Upland	77.83	101.32	2.01
11966	LA-Upland	78.02	101.34	2.01
11967	LA-Upland	78.07	101.36	-0.59
11968	LA-Upland	78.17	101.38	-0.59
11969	LA-Upland	78.02	101.40	-0.59
11970	LA-Upland	78.35	101.42	-0.59
11971	LA-Upland	78.45	101.45	-0.59
11972	LA-Upland	78.62	101.47	-0.14
11973	LA-Upland	78.89	101.49	-0.14
11974	LA-Upland	79.04	101.51	-0.14
11975	LA-Upland	79.27	101.53	-0.14
11976	LA-Upland	79.45	101.55	-0.14
11977	LA-Upland	79.45	101.58	-0.14
11978	LA-Upland	79.62	101.60	-0.14
11979	LA-Upland	79.56	101.62	-0.14
11980	LA-Upland	79.48	101.64	-0.14
11981	LA-Upland	79.33	101.66	0.54
11982	LA-Upland	79.20	101.69	0.54
11983	LA-Upland	78.96	101.71	0.54
11984	LA-Upland	78.77	101.73	0.54
11985	LA-Upland	78.62	101.75	1.12
11986	LA-Upland	78.50	101.77	1.12
11987	LA-Upland	78.57	101.79	1.12
11988	LA-Upland	78.65	101.82	1.12
11989	LA-Upland	78.68	101.84	1.12
11990	LA-Upland	78.77	101.86	0.04
11991	LA-Upland	78.74	101.88	0.04
11992	LA-Upland	78.68	101.90	0.04
11993	LA-Upland	78.42	101.92	0.04
11994	LA-Upland	78.02	101.94	0.04
11995	LA-Upland	77.57	101.97	1.07
11996	LA-Upland	77.08	101.99	1.07
11997	LA-Upland	76.68	102.01	1.07
11998	LA-Upland	76.32	102.03	1.07
11999	LA-Upland	75.99	102.05	0.57
12000	LA-Upland	75.20	102.07	0.57
12001	LA-Upland	73.81	102.09	0.57
12002	LA-Upland	73.31	102.11	0.57
12003	LA-Upland	73.86	102.13	0.57
12004	LA-Upland	73.62	102.15	0.29

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 12169 to 12246.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 12325 to 12402.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 12247 to 12324.

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Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 12403 to 12480.



time (s)	route	speed (mph)	distance (mi)	grade (%)
12481	LA-Upland	74.02	110.67	3.39
12482	LA-Upland	74.35	110.69	3.39
12483	LA-Upland	74.36	110.71	3.39
12484	LA-Upland	74.32	110.73	3.39
12485	LA-Upland	73.80	110.75	-0.82
12486	LA-Upland	74.18	110.77	-0.82
12487	LA-Upland	75.05	110.79	-0.82
12488	LA-Upland	75.91	110.81	-0.82
12489	LA-Upland	75.86	110.84	-0.82
12490	LA-Upland	75.71	110.86	-2.08
12491	LA-Upland	75.50	110.88	-2.08
12492	LA-Upland	75.43	110.90	-2.08
12493	LA-Upland	75.33	110.92	-2.08
12494	LA-Upland	75.09	110.94	-2.08
12495	LA-Upland	75.01	110.96	-4.31
12496	LA-Upland	75.11	110.98	-4.31
12497	LA-Upland	75.86	111.00	-4.31
12498	LA-Upland	75.03	111.02	-4.31
12499	LA-Upland	75.07	111.04	-4.31
12500	LA-Upland	75.10	111.06	-5.61
12501	LA-Upland	75.66	111.08	-5.61
12502	LA-Upland	75.60	111.10	-5.61
12503	LA-Upland	75.44	111.13	-5.61
12504	LA-Upland	74.88	111.15	-5.61
12505	LA-Upland	74.80	111.17	-4.95
12506	LA-Upland	74.85	111.19	-4.95
12507	LA-Upland	74.31	111.21	-4.95
12508	LA-Upland	73.45	111.23	-4.95
12509	LA-Upland	73.16	111.25	-4.95
12510	LA-Upland	73.21	111.27	-5.36
12511	LA-Upland	73.22	111.29	-5.36
12512	LA-Upland	73.71	111.31	-5.36
12513	LA-Upland	74.60	111.33	-5.36
12514	LA-Upland	75.44	111.35	-5.36
12515	LA-Upland	75.53	111.37	-3.65
12516	LA-Upland	75.66	111.39	-3.65
12517	LA-Upland	75.71	111.41	-3.65
12518	LA-Upland	75.88	111.43	-3.65
12519	LA-Upland	75.91	111.45	-5.88
12520	LA-Upland	76.14	111.47	-5.88
12521	LA-Upland	76.16	111.50	-5.88
12522	LA-Upland	76.05	111.52	-5.88
12523	LA-Upland	75.96	111.54	-5.88
12524	LA-Upland	75.66	111.56	-5.38
12525	LA-Upland	75.65	111.58	-5.38
12526	LA-Upland	75.89	111.60	-5.38
12527	LA-Upland	75.95	111.62	-5.38
12528	LA-Upland	76.15	111.64	-3.38
12529	LA-Upland	76.14	111.66	-4.86
12530	LA-Upland	75.53	111.68	-4.86
12531	LA-Upland	74.81	111.70	-4.86
12532	LA-Upland	74.71	111.72	-4.86
12533	LA-Upland	74.44	111.74	-4.86
12534	LA-Upland	74.15	111.77	-0.05
12535	LA-Upland	74.16	111.79	-0.05
12536	LA-Upland	74.38	111.81	-0.05
12537	LA-Upland	74.43	111.83	-0.05
12538	LA-Upland	74.64	111.85	-0.05
12539	LA-Upland	74.76	111.87	-0.89
12540	LA-Upland	74.74	111.89	-0.89
12541	LA-Upland	74.67	111.91	-0.89
12542	LA-Upland	74.64	111.93	-0.89
12543	LA-Upland	74.54	111.95	-0.89
12544	LA-Upland	74.66	111.97	-0.12
12545	LA-Upland	74.75	111.99	-0.12
12546	LA-Upland	74.73	112.01	-0.12
12547	LA-Upland	74.90	112.03	-0.12
12548	LA-Upland	74.95	112.05	1.24
12549	LA-Upland	74.84	112.07	1.24
12550	LA-Upland	74.94	112.09	1.24
12551	LA-Upland	74.99	112.11	1.24
12552	LA-Upland	75.00	112.13	1.24
12553	LA-Upland	75.04	112.16	1.08
12554	LA-Upland	74.83	112.18	1.08
12555	LA-Upland	74.73	112.20	1.08
12556	LA-Upland	74.64	112.22	1.08
12557	LA-Upland	74.60	112.24	1.08
12558	LA-Upland	74.57	112.26	-0.29

time (s)	route	speed (mph)	distance (mi)	grade (%)
12637	LA-Upland	74.17	113.88	1.33
12638	LA-Upland	74.52	113.90	1.33
12639	LA-Upland	74.85	113.92	1.33
12640	LA-Upland	74.97	113.94	1.33
12641	LA-Upland	74.87	113.96	-0.05
12642	LA-Upland	74.38	113.98	-0.05
12643	LA-Upland	73.89	114.00	-0.05
12644	LA-Upland	72.49	114.02	-0.05
12645	LA-Upland	71.42	114.04	-0.05
12646	LA-Upland	71.08	114.06	1.20
12647	LA-Upland	71.23	114.08	2.09
12648	LA-Upland	71.50	114.10	1.20
12649	LA-Upland	71.60	114.12	1.20
12650	LA-Upland	71.49	114.14	1.20
12651	LA-Upland	71.44	114.16	0.32
12652	LA-Upland	71.23	114.18	0.32
12653	LA-Upland	71.19	114.20	0.32
12654	LA-Upland	71.17	114.22	0.32
12655	LA-Upland	71.18	114.24	0.32
12656	LA-Upland	71.21	114.26	0.33
12657	LA-Upland	71.21	114.28	0.33
12658	LA-Upland	71.24	114.30	0.33
12659	LA-Upland	71.25	114.32	0.33
12660	LA-Upland	71.37	114.34	0.33
12661	LA-Upland	71.49	114.36	1.54
12662	LA-Upland	71.74	114.38	1.54
12663	LA-Upland	72.04	114.40	1.54
12664	LA-Upland	72.34	114.42	1.54
12665	LA-Upland	72.55	114.44	1.54
12666	LA-Upland	72.72	114.46	0.62
12667	LA-Upland	72.67	114.48	0.62
12668	LA-Upland	72.72	114.50	0.62
12669	LA-Upland	72.82	114.52	0.62
12670	LA-Upland	73.11	114.54	0.62
12671	LA-Upland	73.36	114.56	1.67
12672	LA-Upland	73.64	114.58	1.67
12673	LA-Upland	73.86	114.60	1.67
12674	LA-Upland	74.04	114.62	1.67
12675	LA-Upland	74.17	114.64	1.67
12676	LA-Upland	74.05	114.66	1.54
12677	LA-Upland	73.73	114.68	1.54
12678	LA-Upland	73.44	114.70	1.54
12679	LA-Upland	73.27	114.72	1.54
12680	LA-Upland	73.37	114.74	1.54
12681	LA-Upland	72.88	114.76	1.55
12682	LA-Upland	72.57	114.78	1.55
12683	LA-Upland	72.51	114.80	1.55
12684	LA-Upland	72.33	114.82	1.55
12685	LA-Upland	72.07	114.84	1.55
12686	LA-Upland	71.90	114.86	2.12
12687	LA-Upland	71.74	114.88	2.12
12688	LA-Upland	71.17	114.90	2.12
12689	LA-Upland	69.93	114.92	2.12
12690	LA-Upland	69.67	114.94	2.12
12691	LA-Upland	69.74	114.96	1.85
12692	LA-Upland	69.83	114.97	1.85
12693	LA-Upland	69.76	114.99	1.85
12694	LA-Upland	69.56	115.01	1.85
12695	LA-Upland	69.19	115.03	1.85
12696	LA-Upland	69.02	115.05	3.63
12697	LA-Upland	68.36	115.07	3.63
12698	LA-Upland	66.91	115.09	3.63
12699	LA-Upland	65.70	115.11	3.63
12700	LA-Upland	64.56	115.12	3.63
12701	LA-Upland	64.17	115.14	3.63
12702	LA-Upland	64.19	115.16	0.25
12703	LA-Upland	64.28	115.18	0.25
12704	LA-Upland	64.75	115.19	0.25
12705	LA-Upland	65.64	115.21	0.25
12706	LA-Upland	66.36	115.23	0.25
12707	LA-Upland	67.15	115.25	0.25
12708	LA-Upland	67.81	115.27	1.37
12709	LA-Upland	68.37	115.29	1.37
12710	LA-Upland	68.62	115.31	1.37
12711	LA-Upland	68.20	115.32	1.37
12712	LA-Upland	67.31	115.34	1.37
12713	LA-Upland	67.97	115.36	2.40
12714	LA-Upland	68.49	115.38	2.40

time (s)	route	speed (mph)	distance (mi)	grade (%)
12558	LA-Upland	74.35	112.28	-0.29
12559	LA-Upland	73.82	112.30	-0.29
12560	LA-Upland	72.63	112.32	-0.29
12561	LA-Upland	72.21	112.34	-0.29
12562	LA-Upland	72.24	112.36	0.24
12563	LA-Upland	72.29	112.38	0.24
12564	LA-Upland	72.30	112.40	0.24
12565	LA-Upland	72.26	112.42	0.24
12566	LA-Upland	72.15	112.44	0.24
12567	LA-Upland	72.35	112.46	3.03
12568	LA-Upland	72.22	112.48	3.03
12569	LA-Upland	72.08	112.50	3.03
12570	LA-Upland	71.98	112.52	3.03
12571	LA-Upland	71.95	112.54	3.03
12572	LA-Upland	71.99	112.56	-1.26
12573	LA-Upland	72.11	112.58	-1.26
12574	LA-Upland	72.15	112.60	-1.26
12575	LA-Upland	72.38	112.62	-1.26
12576	LA-Upland	72.44	112.64	-1.26
12577	LA-Upland	72.62	112.66	1.96
12578	LA-Upland	72.63	112.68	1.96
12579	LA-Upland	72.95	112.70	1.96
12580	LA-Upland	73.06	112.72	1.96
12581	LA-Upland	73.27	112.74	1.96
12582	LA-Upland	73.29	112.76	0.75
12583	LA-Upland	73.39	112.78	0.75
12584	LA-Upland	73.70	112.78	0.75
12585	LA-Upland	73.96	112.80	0.75
12586	LA-Upland	74.23	112.82	0.75
12587	LA-Upland	74.38	112.84	0.75
12588	LA-Upland	74.60	112.86	1.08
12589	LA-Upland	74.83	112.88	1.08
12590	LA-Upland	74.85	112.90	1.08
12591	LA-Upland	74.99	112.92	1.08
12592	LA-Upland	74.99	112.94	1.08
12593	LA-Upland	74.83	112.96	0.35
12594	LA-Upland	74.87	112.98	0.35
12595	LA-Upland	74.91	113.00	0.35
12596	LA-Upland	75.26	113.02	0.35
12597	LA-Upland	75.61	113.04	0.35
12598	LA-Upland	75.91	113.07	1.29
12599	LA-Upland	76.08	113.09	1.29
12600	LA-Upland	76.20	113.11	1.29
12601	LA-Upland	76.28	113.13	1.29
12602	LA-Upland	76.37	113.15	1.29
12603	LA-Upland	76.88	113.17	0.65
12604	LA-Upland	77.27	113.19	0.65
12605	LA-Upland	77.57	113.21	0.65
12606	LA-Upland	77.79	113.23	0.65
12607	LA-Upland	78.10	113.26	1.08
12608	LA-Upland	78.31	113.28	1.08
12609	LA-Upland	78.48	113.30	1.08
12610	LA-Upland	78.57	113.32	0.08
12611	LA-Upland	78.63	113.34	1.08
12612	LA-Upland	78.82	113.36	-0.07
12613	LA-Upland	78.90	113.38	0.65
12614	LA-Upland	79.02	113.41	-0.07
12615	LA-Upland	79.01	113.43	-0.07
12616	LA-Upland	78.33	113.45	-0.29
12617	LA-Upland	77.25	113.47	0.29
12618	LA-Upland	77.14	113.49	0.29
12619	LA-Upland	76.99	113.51	0.29
12620	LA-Upland	76.74	113.54	0.29
12621	LA-Upland	76.66	113.56	0.17</

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time (s)	route	speed (mph)	distance (mi)	grade (%)
12793	LA-Upland	72.15	116.96	0.07
12794	LA-Upland	70.76	116.98	0.07
12795	LA-Upland	68.76	116.99	0.07
12796	LA-Upland	67.55	117.01	0.07
12797	LA-Upland	66.36	117.03	0.07
12798	LA-Upland	64.31	117.05	0.07
12799	LA-Upland	62.13	117.07	0.06
12800	LA-Upland	59.96	117.08	0.06
12801	LA-Upland	58.74	117.10	0.06
12802	LA-Upland	57.64	117.11	0.06
12803	LA-Upland	55.54	117.13	0.06
12804	LA-Upland	53.18	117.14	0.06
12805	LA-Upland	51.56	117.16	0.45
12806	LA-Upland	50.51	117.17	0.45
12807	LA-Upland	49.78	117.19	0.45
12808	LA-Upland	47.93	117.20	0.45
12809	LA-Upland	45.36	117.21	0.45
12810	LA-Upland	43.76	117.22	0.45
12811	LA-Upland	43.18	117.24	0.45
12812	LA-Upland	43.01	117.25	0.45
12813	LA-Upland	41.81	117.26	1.45
12814	LA-Upland	39.41	117.27	1.45
12815	LA-Upland	34.91	117.28	1.45
12816	LA-Upland	30.33	117.29	1.45
12817	LA-Upland	26.76	117.29	1.45
12818	LA-Upland	23.51	117.30	1.45
12819	LA-Upland	21.90	117.31	1.45
12820	LA-Upland	21.13	117.31	1.45
12821	LA-Upland	21.26	117.32	1.45
12822	LA-Upland	22.15	117.32	1.45
12823	LA-Upland	22.27	117.33	1.45
12824	LA-Upland	24.81	117.34	1.45
12825	LA-Upland	26.57	117.35	1.45
12826	LA-Upland	28.13	117.35	2.74
12827	LA-Upland	29.12	117.36	2.74
12828	LA-Upland	28.50	117.37	2.74
12829	LA-Upland	27.78	117.38	2.74
12830	LA-Upland	27.22	117.38	2.74
12831	LA-Upland	26.72	117.39	2.74
12832	LA-Upland	25.92	117.40	2.74
12833	LA-Upland	24.62	117.41	2.74
12834	LA-Upland	24.00	117.41	2.74
12835	LA-Upland	23.89	117.42	2.74
12836	LA-Upland	23.56	117.43	2.74
12837	LA-Upland	22.47	117.43	2.74
12838	LA-Upland	21.17	117.44	2.74
12839	LA-Upland	20.02	117.44	2.74
12840	LA-Upland	19.83	117.45	2.74
12841	LA-Upland	19.38	117.45	0.01
12842	LA-Upland	17.89	117.46	0.01
12843	LA-Upland	16.31	117.46	0.01
12844	LA-Upland	14.38	117.47	0.01
12845	LA-Upland	11.95	117.47	0.01
12846	LA-Upland	10.98	117.47	0.01
12847	LA-Upland	11.75	117.48	0.01
12848	LA-Upland	13.89	117.48	0.01
12849	LA-Upland	16.20	117.48	0.01
12850	LA-Upland	18.51	117.49	0.01
12851	LA-Upland	20.63	117.50	0.01
12852	LA-Upland	22.52	117.50	0.01
12853	LA-Upland	23.36	117.51	0.01
12854	LA-Upland	24.35	117.51	0.01
12855	LA-Upland	25.43	117.52	0.01
12856	LA-Upland	26.40	117.53	0.01
12857	LA-Upland	25.11	117.54	0.01
12858	LA-Upland	25.89	117.54	0.01
12859	LA-Upland	25.26	117.55	-0.81
12860	LA-Upland	25.32	117.56	-0.81
12861	LA-Upland	25.43	117.56	-0.81
12862	LA-Upland	24.97	117.57	-0.81
12863	LA-Upland	24.47	117.58	-0.81
12864	LA-Upland	25.10	117.58	-0.81
12865	LA-Upland	26.32	117.59	-0.81
12866	LA-Upland	27.63	117.60	-0.81
12867	LA-Upland	29.61	117.61	-0.81
12868	LA-Upland	30.42	117.62	-0.81
12869	LA-Upland	31.99	117.62	-0.81
12870	LA-Upland	33.54	117.63	-0.81

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time (s)	route	speed (mph)	distance (mi)	grade (%)
12949	LA-Upland	36.17	118.27	-0.44
12950	LA-Upland	37.56	118.28	-0.44
12951	LA-Upland	38.91	118.29	-0.44
12952	LA-Upland	40.10	118.30	-0.44
12953	LA-Upland	40.98	118.32	-0.44
12954	LA-Upland	41.67	118.33	-0.44
12955	LA-Upland	42.22	118.34	-0.44
12956	LA-Upland	42.84	118.35	-0.16
12957	LA-Upland	41.94	118.36	-0.16
12958	LA-Upland	40.78	118.37	-0.16
12959	LA-Upland	38.98	118.38	-0.16
12960	LA-Upland	38.00	118.39	-0.16
12961	LA-Upland	38.16	118.40	-0.16
12962	LA-Upland	38.71	118.42	-0.16
12963	LA-Upland	39.33	118.43	-0.16
12964	LA-Upland	39.97	118.44	-0.16
12965	LA-Upland	40.78	118.45	-0.16
12966	LA-Upland	40.50	118.46	2.33
12967	LA-Upland	39.32	118.47	2.33
12968	LA-Upland	38.32	118.48	2.33
12969	LA-Upland	36.91	118.49	2.33
12970	LA-Upland	35.88	118.50	2.33
12971	LA-Upland	36.04	118.51	2.33
12972	LA-Upland	36.60	118.52	2.33
12973	LA-Upland	37.56	118.53	2.33
12974	LA-Upland	38.51	118.54	2.33
12975	LA-Upland	38.97	118.55	2.76
12976	LA-Upland	38.17	118.56	2.76
12977	LA-Upland	38.84	118.57	2.76
12978	LA-Upland	39.75	118.58	2.76
12979	LA-Upland	39.62	118.60	2.76
12980	LA-Upland	38.82	118.61	2.76
12981	LA-Upland	37.54	118.62	2.76
12982	LA-Upland	36.32	118.63	2.76
12983	LA-Upland	36.66	118.64	2.76
12984	LA-Upland	38.13	118.65	2.76
12985	LA-Upland	39.58	118.66	1.53
12986	LA-Upland	39.64	118.67	1.53
12987	LA-Upland	38.76	118.68	1.53
12988	LA-Upland	36.78	118.69	1.53
12989	LA-Upland	34.20	118.70	1.53
12990	LA-Upland	31.08	118.71	1.53
12991	LA-Upland	28.20	118.72	1.53
12992	LA-Upland	25.53	118.72	1.53
12993	LA-Upland	23.45	118.73	1.53
12994	LA-Upland	22.98	118.73	1.53
12995	LA-Upland	23.16	118.74	1.53
12996	LA-Upland	24.16	118.75	1.53
12997	LA-Upland	26.02	118.76	-1.91
12998	LA-Upland	27.45	118.76	-1.91
12999	LA-Upland	27.86	118.77	-1.91
13000	LA-Upland	26.88	118.78	-1.91
13001	LA-Upland	25.96	118.78	-1.91
13002	LA-Upland	24.30	118.79	-1.91
13003	LA-Upland	22.65	118.80	-1.91
13004	LA-Upland	21.93	118.80	-1.91
13005	LA-Upland	22.43	118.81	-1.91
13006	LA-Upland	23.62	118.82	-1.91
13007	LA-Upland	25.47	118.82	-1.91
13008	LA-Upland	28.11	118.83	-1.91
13009	LA-Upland	31.07	118.84	-1.91
13010	LA-Upland	33.89	118.85	-1.91
13011	LA-Upland	35.96	118.86	1.14
13012	LA-Upland	37.44	118.87	1.14
13013	LA-Upland	38.07	118.88	1.14
13014	LA-Upland	37.07	118.89	1.14
13015	LA-Upland	37.06	118.90	1.14
13016	LA-Upland	37.22	118.91	1.14
13017	LA-Upland	36.88	118.92	1.14
13018	LA-Upland	37.25	118.93	1.14
13019	LA-Upland	36.90	118.94	1.14
13020	LA-Upland	35.67	118.95	1.52
13021	LA-Upland	34.45	118.96	1.52
13022	LA-Upland	34.17	118.97	1.52
13023	LA-Upland	34.37	118.98	1.52
13024	LA-Upland	35.69	118.99	1.52
13025	LA-Upland	36.62	119.00	1.52
13026	LA-Upland	37.21	119.01	1.52

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time (s)	route	speed (mph)	distance (mi)	grade (%)
12871	LA-Upland	34.77	117.64	-0.81
12872	LA-Upland	35.82	117.65	1.15
12873	LA-Upland	36.80	117.66	1.15
12874	LA-Upland	37.73	117.67	1.15
12875	LA-Upland	37.66	117.68	1.15
12876	LA-Upland	36.74	117.69	1.15
12877	LA-Upland	36.87	117.70	1.15
12878	LA-Upland	37.37	117.71	1.15
12879	LA-Upland	38.03	117.72	1.15
12880	LA-Upland	38.40	117.74	1.15
12881	LA-Upland	38.56	117.75	1.15
12882	LA-Upland	38.77	117.76	0.44
12883	LA-Upland	39.09	117.77	0.44
12884	LA-Upland	39.59	117.78	0.44
12885	LA-Upland	40.07	117.79	0.44
12886	LA-Upland	40.53	117.80	0.44
12887	LA-Upland	40.78	117.81	0.44
12888	LA-Upland	40.88	117.82	0.44
12889	LA-Upland	40.40	117.83	0.44
12890	LA-Upland	39.48	117.84	0.44
12891	LA-Upland	39.84	117.85	1.10
12892	LA-Upland	40.32	117.87	1.10
12893	LA-Upland	40.83	117.88	0.10
12894	LA-Upland	40.29	117.89	0.10
12895	LA-Upland	40.42	117.90	0.10
12896	LA-Upland	40.84	117.91	0.10
12897	LA-Upland	40.42	117.92	0.10
12898	LA-Upland	39.90	117.93	0.10
12899	LA-Upland	39.46	117.94	0.10
12900	LA-Upland	38.79	117.96	0.87
12901	LA-Upland	37.48	117.97	0.87
12902	LA-Upland	35.71	117.98	0.87
12903	LA-Upland	34.72	117.98	0.87
12904	LA-Upland	34.65	117.99	0.87
12905	LA-Upland	35.84	118.00	0.87
12906	LA-Upland	36.04	118.01	0.87
12907	LA-Upland	36.62	118.02	0.87
12908	LA-Upland	37.17	118.03	0.87
12909	LA-Upland	36.66	118.04	0.87
12910	LA-Upland	35.77	118.05	1.10
12911	LA-Upland	34.28	118.06	1.10
12912	LA-Upland	32.58	118.07	1.10
12913	LA-Upland	31.45	118.08	1.10
12914	LA-Upland	30.54	118.09	1.10
12915	LA-Upland	29.80	118.10	1.10
12916	LA-Upland	29.17	118.11	1.10
12917	LA-Upland	28.39	118.11	1.10
12918	LA-Upland	27.22	118.12	1.10
12919	LA-Upland	26.40	118.13	1.10
12920	LA-Upland	25.83	118.14	1.10
12921	LA-Upland	25.35	118.14	1.10
12922	LA-Upland	25.41	118.15	1.57
12923	LA-Upland	25.38	118.16	1.57
12924	LA-Upland	23.10	118.16	1.57
12925	LA-Upland	18.86	118.17	1.57
12926	LA-Upland	10.30	118.17	1.57
12927	LA-Upland	3.56	118.17	1.57
12928	LA-Upland	0.18	118.17	1.57
12929	LA-Upland	0.00	118.17	1.57
12930	LA-Upland	0.00	118.17	1.57
12931	LA-Upland	0.00	118.17	1.57
12932	LA-Upland	0.60	118.17	1.57
12933	LA-Upland	2.20	118.17	1.57
12934	LA-Upland	5.78	118.17	1.57
12935	LA-Upland	9.28	118.18	1.57
12936	LA-Upland	12.92	118.18	1.57
12937	LA-Upland	15.74	118.18	1.57
12938	LA-Upland	18.43	118.19	1.57
12939	LA-Upland	20.40	118.20	1.57
12940	LA-Upland	20.58	118.20	

time (s)	route	speed (mph)	distance (mi)	grade (%)
13105	LA-Upland	56.81	120.05	0.38
13106	LA-Upland	57.12	120.07	0.45
13107	LA-Upland	57.17	120.08	0.45
13108	LA-Upland	56.97	120.10	0.45
13109	LA-Upland	56.20	120.11	0.45
13110	LA-Upland	55.14	120.13	0.45
13111	LA-Upland	54.40	120.14	0.45
13112	LA-Upland	53.83	120.16	0.95
13113	LA-Upland	53.72	120.17	0.95
13114	LA-Upland	54.02	120.19	0.95
13115	LA-Upland	54.48	120.20	0.95
13116	LA-Upland	54.60	120.22	0.95
13117	LA-Upland	53.42	120.23	0.95
13118	LA-Upland	53.22	120.25	0.95
13119	LA-Upland	50.64	120.26	0.85
13120	LA-Upland	48.31	120.27	0.85
13121	LA-Upland	45.93	120.29	0.85
13122	LA-Upland	43.70	120.30	0.85
13123	LA-Upland	41.44	120.31	0.85
13124	LA-Upland	39.93	120.32	0.85
13125	LA-Upland	39.67	120.33	0.85
13126	LA-Upland	39.68	120.34	0.85
13127	LA-Upland	39.90	120.35	-0.40
13128	LA-Upland	38.80	120.36	-0.40
13129	LA-Upland	36.39	120.37	-0.40
13130	LA-Upland	33.89	120.38	-0.40
13131	LA-Upland	31.52	120.39	-0.40
13132	LA-Upland	30.35	120.40	-0.40
13133	LA-Upland	30.51	120.41	-0.40
13134	LA-Upland	30.77	120.42	-0.40
13135	LA-Upland	31.18	120.43	-0.40
13136	LA-Upland	32.88	120.43	-0.40
13137	LA-Upland	34.29	120.44	-0.40
13138	LA-Upland	35.67	120.45	-0.07
13139	LA-Upland	36.73	120.46	-0.07
13140	LA-Upland	37.12	120.47	-0.07
13141	LA-Upland	37.99	120.48	-0.07
13142	LA-Upland	38.63	120.49	-0.07
13143	LA-Upland	37.67	120.51	-0.07
13144	LA-Upland	37.92	120.52	-0.07
13145	LA-Upland	38.88	120.53	-0.07
13146	LA-Upland	37.39	120.54	-0.07
13147	LA-Upland	35.30	120.55	-0.07
13148	LA-Upland	33.12	120.56	-0.33
13149	LA-Upland	32.45	120.56	-0.33
13150	LA-Upland	32.04	120.57	-0.33
13151	LA-Upland	32.64	120.58	-0.33
13152	LA-Upland	34.17	120.59	-0.33
13153	LA-Upland	36.68	120.60	-0.33
13154	LA-Upland	38.86	120.61	-0.33
13155	LA-Upland	40.07	120.62	-0.33
13156	LA-Upland	40.02	120.63	-0.33
13157	LA-Upland	39.62	120.65	-0.33
13158	LA-Upland	39.19	120.66	-1.12
13159	LA-Upland	38.55	120.67	-1.12
13160	LA-Upland	37.62	120.68	-1.12
13161	LA-Upland	36.05	120.69	-1.12
13162	LA-Upland	35.42	120.70	-1.12
13163	LA-Upland	35.83	120.71	-1.12
13164	LA-Upland	37.22	120.72	-1.12
13165	LA-Upland	38.68	120.73	-1.12
13166	LA-Upland	40.36	120.74	-1.12
13167	LA-Upland	41.77	120.75	-1.12
13168	LA-Upland	42.77	120.76	-0.65
13169	LA-Upland	43.82	120.77	-0.65
13170	LA-Upland	44.45	120.79	-0.65
13171	LA-Upland	45.55	120.80	-0.65
13172	LA-Upland	46.90	120.81	-0.65
13173	LA-Upland	47.80	120.82	-0.65
13174	LA-Upland	48.23	120.84	-0.65
13175	LA-Upland	48.48	120.85	0.00
13176	LA-Upland	48.82	120.86	0.00
13177	LA-Upland	49.12	120.88	0.00
13178	LA-Upland	49.41	120.89	0.00
13179	LA-Upland	49.56	120.91	0.00
13180	LA-Upland	50.98	120.92	0.00
13181	LA-Upland	51.02	120.93	0.00
13182	LA-Upland	50.27	120.95	0.00

time (s)	route	speed (mph)	distance (mi)	grade (%)
13261	LA-Upland	68.17	122.43	-1.51
13262	LA-Upland	67.31	122.44	-1.51
13263	LA-Upland	66.57	122.46	-1.10
13264	LA-Upland	65.66	122.48	-1.10
13265	LA-Upland	64.88	122.50	-1.10
13266	LA-Upland	64.83	122.52	-1.10
13267	LA-Upland	64.87	122.53	-1.10
13268	LA-Upland	64.57	122.55	-0.84
13269	LA-Upland	63.74	122.57	-0.84
13270	LA-Upland	63.09	122.59	-0.84
13271	LA-Upland	62.50	122.60	-0.84
13272	LA-Upland	61.70	122.62	-0.84
13273	LA-Upland	61.20	122.64	-0.84
13274	LA-Upland	60.42	122.65	-1.57
13275	LA-Upland	59.66	122.67	-1.57
13276	LA-Upland	59.20	122.69	-1.57
13277	LA-Upland	59.16	122.70	-1.57
13278	LA-Upland	59.41	122.72	-1.57
13279	LA-Upland	59.40	122.74	-1.57
13280	LA-Upland	58.97	122.75	-0.53
13281	LA-Upland	58.58	122.77	-0.53
13282	LA-Upland	57.53	122.78	-0.53
13283	LA-Upland	55.92	122.80	-0.53
13284	LA-Upland	55.82	122.82	-0.53
13285	LA-Upland	55.32	122.83	-0.53
13286	LA-Upland	55.10	122.85	-0.53
13287	LA-Upland	55.07	122.86	-0.15
13288	LA-Upland	54.96	122.88	-0.15
13289	LA-Upland	54.92	122.89	-0.15
13290	LA-Upland	54.93	122.91	-0.15
13291	LA-Upland	54.99	122.92	-0.15
13292	LA-Upland	55.59	122.94	-0.15
13293	LA-Upland	55.35	122.95	-1.71
13294	LA-Upland	53.78	122.97	-1.71
13295	LA-Upland	50.00	122.98	-1.71
13296	LA-Upland	46.06	122.99	-1.71
13297	LA-Upland	42.70	123.00	-1.71
13298	LA-Upland	39.52	123.02	-1.71
13299	LA-Upland	36.81	123.03	-1.71
13300	LA-Upland	35.18	123.04	-1.71
13301	LA-Upland	34.36	123.04	-1.71
13302	LA-Upland	34.87	123.05	-1.38
13303	LA-Upland	36.45	123.06	-1.38
13304	LA-Upland	37.58	123.07	-1.38
13305	LA-Upland	36.88	123.08	-1.38
13306	LA-Upland	36.34	123.09	-1.38
13307	LA-Upland	36.94	123.11	-1.38
13308	LA-Upland	38.10	123.12	-1.38
13309	LA-Upland	39.74	123.13	-1.38
13310	LA-Upland	40.52	123.14	-1.38
13311	LA-Upland	40.41	123.15	-1.38
13312	LA-Upland	41.69	123.16	-2.07
13313	LA-Upland	43.21	123.17	-2.07
13314	LA-Upland	43.33	123.18	-2.07
13315	LA-Upland	43.28	123.20	-2.07
13316	LA-Upland	43.72	123.21	-2.07
13317	LA-Upland	43.74	123.22	-2.07
13318	LA-Upland	43.18	123.23	-2.07
13319	LA-Upland	41.78	123.24	-2.07
13320	LA-Upland	40.76	123.25	-1.96
13321	LA-Upland	41.49	123.27	-1.96
13322	LA-Upland	43.29	123.28	-1.96
13323	LA-Upland	45.09	123.29	-1.96
13324	LA-Upland	46.42	123.30	-1.96
13325	LA-Upland	47.17	123.32	-1.96
13326	LA-Upland	48.05	123.33	-1.96
13327	LA-Upland	48.43	123.34	-1.96
13328	LA-Upland	48.81	123.36	-2.21
13329	LA-Upland	49.37	123.37	-2.21
13330	LA-Upland	50.17	123.38	-2.21
13331	LA-Upland	51.17	123.40	-2.21
13332	LA-Upland	52.13	123.41	-2.21
13333	LA-Upland	54.07	123.43	-2.21
13334	LA-Upland	55.92	123.44	-2.21
13335	LA-Upland	57.10	123.46	-1.99
13336	LA-Upland	58.39	123.47	-1.99
13337	LA-Upland	59.62	123.49	-1.99
13338	LA-Upland	60.81	123.51	-1.99

time (s)	route	speed (mph)	distance (mi)	grade (%)
13183	LA-Upland	49.60	120.96	0.00
13184	LA-Upland	49.09	120.97	0.00
13185	LA-Upland	49.67	120.99	0.00
13186	LA-Upland	50.19	121.00	0.00
13187	LA-Upland	50.82	121.02	0.00
13188	LA-Upland	51.25	121.03	0.00
13189	LA-Upland	50.67	121.04	0.00
13190	LA-Upland	49.90	121.06	0.00
13191	LA-Upland	49.39	121.07	0.00
13192	LA-Upland	49.71	121.08	0.00
13193	LA-Upland	50.42	121.10	0.00
13194	LA-Upland	51.75	121.11	0.00
13195	LA-Upland	53.53	121.13	0.00
13196	LA-Upland	55.07	121.14	0.00
13197	LA-Upland	56.48	121.16	0.00
13198	LA-Upland	58.92	121.17	0.00
13199	LA-Upland	62.75	121.19	0.00
13200	LA-Upland	66.54	121.21	0.00
13201	LA-Upland	70.07	121.23	0.00
13202	LA-Upland	73.29	121.25	0.00
13203	LA-Upland	75.44	121.27	0.00
13204	LA-Upland	76.27	121.29	0.00
13205	LA-Upland	77.09	121.31	0.00
13206	LA-Upland	78.61	121.33	0.00
13207	LA-Upland	78.82	121.36	0.00
13208	LA-Upland	79.51	121.38	0.00
13209	LA-Upland	79.05	121.40	0.00
13210	LA-Upland	78.69	121.42	0.00
13211	LA-Upland	77.93	121.44	0.00
13212	LA-Upland	77.97	121.46	0.00
13213	LA-Upland	77.52	121.48	0.00
13214	LA-Upland	76.85	121.51	0.00
13215	LA-Upland	76.41	121.53	0.00
13216	LA-Upland	76.49	121.55	0.00
13217	LA-Upland	76.45	121.57	0.00
13218	LA-Upland	76.48	121.59	0.00
13219	LA-Upland	75.72	121.61	0.00
13220	LA-Upland	74.82	121.63	0.00
13221	LA-Upland	73.91	121.65	0.00
13222	LA-Upland	73.40	121.67	0.00
13223	LA-Upland	72.60	121.69	0.00
13224	LA-Upland	72.69	121.71	0.00
13225	LA-Upland	71.95	121.73	0.00
13226	LA-Upland	71.07	121.75	0.00
13227	LA-Upland	70.74	121.77	0.00
13228	LA-Upland	70.99	121.79	0.00
13229	LA-Upland	71.21	121.81	0.00
13230	LA-Upland	71.41	121.83	0.00
13231	LA-Upland	71.69	121.85	0.00
13232	LA-Upland	71.93	121.87	-0.54
13233	LA-Upland	72.03	121.89	-0.54
13234	LA-Upland	71.22	121.92	-0.54
13235	LA-Upland	70.51	121.93	-0.54
13236	LA-Upland	70.63	121.95	-0.54
13237	LA-Upland	70.75	121.97	-0.15
13238	LA-Upland	70.92	121.99	-1.25
13239	LA-Upland	71.16	122.01	-1.25
13240	LA-Upland	71.27	122.02	-1.25
13241	LA-Upland	71.16	122.04	-1.25
13242	LA-Upland	71.09	122.06	-0.92
13243	LA-Upland	70.43	122.08	-0.92
13244	LA-Upland	69.77	122.10	-0.92
13245	LA-Upland	69.62	122.12	

time [s]	route	speed [mph]	distance [mi]	grade [%]
13417	LA-Upland	0.00	123.98	-0.86
13418	LA-Upland	0.00	123.98	-0.86
13419	LA-Upland	0.00	123.98	-0.86
13420	LA-Upland	0.25	123.98	-0.86
13421	LA-Upland	4.24	123.98	-0.86
13422	LA-Upland	9.07	123.99	-0.86
13423	LA-Upland	12.33	123.99	-0.86
13424	LA-Upland	14.18	123.99	-0.86
13425	LA-Upland	14.44	124.00	-0.86
13426	LA-Upland	14.31	124.00	-0.86
13427	LA-Upland	14.00	124.01	-0.86
13428	LA-Upland	14.07	124.01	-0.86
13429	LA-Upland	14.86	124.01	-0.86
13430	LA-Upland	16.20	124.02	-0.86
13431	LA-Upland	18.50	124.02	-0.86
13432	LA-Upland	21.59	124.03	-0.86
13433	LA-Upland	24.75	124.04	-0.86
13434	LA-Upland	27.82	124.04	-0.86
13435	LA-Upland	30.20	124.05	-0.53
13436	LA-Upland	31.75	124.06	-0.53
13437	LA-Upland	33.23	124.07	-0.53
13438	LA-Upland	33.87	124.08	-0.53
13439	LA-Upland	33.46	124.09	-0.53
13440	LA-Upland	34.16	124.10	-0.53
13441	LA-Upland	35.29	124.11	-0.53
13442	LA-Upland	36.43	124.12	-0.53
13443	LA-Upland	37.67	124.13	-0.53
13444	LA-Upland	38.94	124.14	-0.53
13445	LA-Upland	41.07	124.15	-0.53
13446	LA-Upland	42.80	124.16	-0.51
13447	LA-Upland	43.91	124.17	-0.51
13448	LA-Upland	44.93	124.19	-0.51
13449	LA-Upland	45.82	124.20	-0.51
13450	LA-Upland	46.49	124.21	-0.51
13451	LA-Upland	46.78	124.22	-0.51
13452	LA-Upland	45.95	124.24	-0.51
13453	LA-Upland	44.80	124.25	-0.51
13454	LA-Upland	43.68	124.26	-0.49
13455	LA-Upland	42.17	124.27	-0.49
13456	LA-Upland	40.73	124.28	-0.49
13457	LA-Upland	39.75	124.29	-0.49
13458	LA-Upland	38.77	124.30	-0.49
13459	LA-Upland	37.85	124.32	-0.49
13460	LA-Upland	36.76	124.33	-0.49
13461	LA-Upland	35.67	124.34	-0.49
13462	LA-Upland	34.68	124.34	-0.49
13463	LA-Upland	34.10	124.35	0.38
13464	LA-Upland	34.15	124.36	0.38
13465	LA-Upland	35.05	124.37	0.38
13466	LA-Upland	35.13	124.38	0.38
13467	LA-Upland	34.09	124.39	0.38
13468	LA-Upland	33.06	124.40	0.38
13469	LA-Upland	31.05	124.41	0.38
13470	LA-Upland	28.08	124.42	0.38
13471	LA-Upland	25.32	124.42	0.38
13472	LA-Upland	24.80	124.43	0.38
13473	LA-Upland	24.16	124.44	0.38
13474	LA-Upland	23.03	124.44	0.38
13475	LA-Upland	21.70	124.45	1.47
13476	LA-Upland	20.32	124.46	1.47
13477	LA-Upland	18.39	124.46	1.47
13478	LA-Upland	17.48	124.47	1.47
13479	LA-Upland	16.44	124.47	1.47
13480	LA-Upland	14.97	124.47	1.47
13481	LA-Upland	13.23	124.48	1.47
13482	LA-Upland	11.48	124.48	1.47
13483	LA-Upland	9.13	124.48	1.47
13484	LA-Upland	5.83	124.49	1.47
13485	LA-Upland	3.42	124.49	1.47
13486	LA-Upland	1.67	124.49	1.47
13487	LA-Upland	1.35	124.49	1.47
13488	LA-Upland	1.56	124.49	1.47
13489	LA-Upland	1.09	124.49	1.47
13490	LA-Upland	0.00	124.49	1.47
13491	LA-Upland	0.00	124.49	1.47
13492	LA-Upland	0.00	124.49	1.47
13493	LA-Upland	0.00	124.49	1.47
13494	LA-Upland	0.00	124.49	1.47

time [s]	route	speed [mph]	distance [mi]	grade [%]
13573	LA-Upland	44.37	124.72	1.23
13574	LA-Upland	44.98	124.73	1.23
13575	LA-Upland	45.49	124.74	1.23
13576	LA-Upland	45.95	124.76	1.16
13577	LA-Upland	45.83	124.77	1.16
13578	LA-Upland	45.57	124.78	1.16
13579	LA-Upland	45.03	124.79	1.16
13580	LA-Upland	43.99	124.80	1.16
13581	LA-Upland	43.03	124.82	1.16
13582	LA-Upland	43.36	124.83	1.16
13583	LA-Upland	44.08	124.84	1.16
13584	LA-Upland	44.50	124.85	1.42
13585	LA-Upland	44.81	124.87	1.42
13586	LA-Upland	44.80	124.88	1.42
13587	LA-Upland	45.42	124.89	1.42
13588	LA-Upland	45.20	124.90	1.42
13589	LA-Upland	45.13	124.91	1.42
13590	LA-Upland	44.54	124.93	1.42
13591	LA-Upland	43.45	124.94	1.42
13592	LA-Upland	42.49	124.95	1.27
13593	LA-Upland	42.63	124.96	1.27
13594	LA-Upland	43.40	124.97	1.27
13595	LA-Upland	44.39	124.99	1.27
13596	LA-Upland	44.74	125.00	1.27
13597	LA-Upland	44.92	125.01	1.27
13598	LA-Upland	45.03	125.02	1.27
13599	LA-Upland	45.37	125.04	1.27
13600	LA-Upland	44.84	125.05	1.27
13601	LA-Upland	45.52	125.06	1.04
13602	LA-Upland	46.37	125.07	1.04
13603	LA-Upland	47.44	125.09	1.04
13604	LA-Upland	47.46	125.10	1.04
13605	LA-Upland	46.44	125.11	1.04
13606	LA-Upland	46.43	125.13	1.04
13607	LA-Upland	46.92	125.14	1.04
13608	LA-Upland	47.19	125.15	1.60
13609	LA-Upland	47.22	125.16	1.60
13610	LA-Upland	47.06	125.18	1.60
13611	LA-Upland	46.96	125.19	1.60
13612	LA-Upland	47.46	125.20	1.60
13613	LA-Upland	47.94	125.22	1.60
13614	LA-Upland	47.28	125.23	1.60
13615	LA-Upland	46.27	125.24	1.60
13616	LA-Upland	46.40	125.25	1.11
13617	LA-Upland	46.89	125.27	1.11
13618	LA-Upland	47.24	125.28	1.11
13619	LA-Upland	47.17	125.29	1.11
13620	LA-Upland	46.81	125.31	1.11
13621	LA-Upland	45.69	125.32	1.11
13622	LA-Upland	45.66	125.33	1.11
13623	LA-Upland	46.45	125.34	1.11
13624	LA-Upland	47.43	125.36	1.54
13625	LA-Upland	48.21	125.37	1.54
13626	LA-Upland	48.22	125.38	1.54
13627	LA-Upland	48.07	125.40	1.54
13628	LA-Upland	47.93	125.41	1.54
13629	LA-Upland	47.20	125.42	1.54
13630	LA-Upland	46.54	125.44	1.54
13631	LA-Upland	45.02	125.45	1.54
13632	LA-Upland	44.04	125.46	1.80
13633	LA-Upland	43.99	125.47	1.80
13634	LA-Upland	44.28	125.48	1.80
13635	LA-Upland	44.72	125.50	1.80
13636	LA-Upland	44.80	125.51	1.80
13637	LA-Upland	44.15	125.52	1.80
13638	LA-Upland	43.27	125.53	1.80
13639	LA-Upland	42.20	125.54	1.80
13640	LA-Upland	41.26	125.56	1.68
13641	LA-Upland	39.42	125.57	1.68
13642	LA-Upland	37.55	125.58	1.68
13643	LA-Upland	36.70	125.59	1.68
13644	LA-Upland	36.97	125.60	1.68
13645	LA-Upland	37.03	125.61	1.68
13646	LA-Upland	36.22	125.62	1.68
13647	LA-Upland	35.22	125.63	1.68
13648	LA-Upland	34.26	125.64	1.68
13649	LA-Upland	34.09	125.65	1.68
13650	LA-Upland	34.03	125.66	1.93

time [s]	route	speed [mph]	distance [mi]	grade [%]
13495	LA-Upland	0.14	124.49	1.47
13496	LA-Upland	0.00	124.49	1.47
13497	LA-Upland	0.00	124.49	1.47
13498	LA-Upland	0.00	124.49	1.47
13499	LA-Upland	0.00	124.49	1.47
13500	LA-Upland	0.00	124.49	1.47
13501	LA-Upland	0.00	124.49	1.47
13502	LA-Upland	0.00	124.49	1.47
13503	LA-Upland	0.00	124.49	1.47
13504	LA-Upland	0.00	124.49	1.47
13505	LA-Upland	0.00	124.49	1.47
13506	LA-Upland	0.00	124.49	1.47
13507	LA-Upland	0.00	124.49	1.47
13508	LA-Upland	0.00	124.49	1.47
13509	LA-Upland	0.00	124.49	1.47
13510	LA-Upland	0.00	124.49	1.47
13511	LA-Upland	0.00	124.49	1.47
13512	LA-Upland	0.00	124.49	1.47
13513	LA-Upland	0.00	124.49	1.47
13514	LA-Upland	0.00	124.49	1.47
13515	LA-Upland	0.00	124.49	1.47
13516	LA-Upland	0.00	124.49	1.47
13517	LA-Upland	0.00	124.49	1.47
13518	LA-Upland	0.00	124.49	1.47
13519	LA-Upland	0.00	124.49	1.47
13520	LA-Upland	0.00	124.49	1.47
13521	LA-Upland	0.00	124.49	1.47
13522	LA-Upland	0.00	124.49	1.47
13523	LA-Upland	0.00	124.49	1.47
13524	LA-Upland	0.00	124.49	1.47
13525	LA-Upland	0.00	124.49	1.47
13526	LA-Upland	0.00	124.49	1.47
13527	LA-Upland	0.00	124.49	1.47
13528	LA-Upland	0.00	124.49	1.47
13529	LA-Upland	0.00	124.49	1.47
13530	LA-Upland	0.00	124.49	1.47
13531	LA-Upland	0.00	124.49	1.47
13532	LA-Upland	0.00	124.49	1.47
13533	LA-Upland	0.00	124.49	1.47
13534	LA-Upland	0.00	124.49	1.47
13535	LA-Upland	0.00	124.49	1.47
13536	LA-Upland	0.00	124.49	1.47
13537	LA-Upland	0.00	124.49	1.47
13538	LA-Upland	0.00	124.49	1.47
13539	LA-Upland	0.00	124.49	1.47
13540	LA-Upland	0.00	124.49	1.47
13541	LA-Upland	0.00	124.49	1.47
13542	LA-Upland	0.00	124.49	1.47
13543	LA-Upland	0.00	124.49	1.47
13544	LA-Upland	0.00	124.49	1.47
13545	LA-Upland	0.00	124.49	1.47
13546	LA-Upland	0.00	124.49	1.47
13547	LA-Upland	3.66	124.49	1.47
13548	LA-Upland	9.27	124.49	1.47
13549	LA-Upland	13.49	124.50	1.47
13550	LA-Upland	16.50	124.50	1.47
13551	LA-Upland	19.28	124.50	1.47
13552	LA-Upland	22.55	124.51	1.47
13553	LA-Upland	24.79	124.52	1.47
13554	LA-Upland	24.67	124.52	1.47
13555	LA-Upland	24.80	124.53	1.47
13556	LA-Upland	27.19	124.54	1.47
13557	LA-Upland	30.43	124.55	1.47
13558	LA-Upland	32.67	124.56	1.60
13559	LA-Upland	34.23	124.57	1.60
13560				

time (s)	route	speed (mph)	distance (mi)	grade (%)
13729	LA-Upland	0.00	126.01	2.14
13730	LA-Upland	0.00	126.01	2.14
13731	LA-Upland	0.00	126.01	2.14
13732	LA-Upland	0.00	126.01	2.14
13733	LA-Upland	0.00	126.01	2.14
13734	LA-Upland	0.00	126.01	2.14
13735	LA-Upland	0.00	126.01	2.14
13736	LA-Upland	0.00	126.01	2.14
13737	LA-Upland	0.00	126.01	2.14
13738	LA-Upland	0.00	126.01	2.14
13739	LA-Upland	0.00	126.01	2.14
13740	LA-Upland	0.00	126.01	2.14
13741	LA-Upland	0.00	126.01	2.14
13742	LA-Upland	0.00	126.01	2.14
13743	LA-Upland	0.00	126.01	2.14
13744	LA-Upland	0.00	126.01	2.14
13745	LA-Upland	0.00	126.01	2.14
13746	LA-Upland	0.00	126.01	2.14
13747	LA-Upland	0.00	126.01	2.14
13748	LA-Upland	0.00	126.01	2.14
13749	LA-Upland	0.00	126.01	2.14
13750	LA-Upland	0.00	126.01	2.14
13751	LA-Upland	0.00	126.01	2.14
13752	LA-Upland	0.00	126.01	2.14
13753	LA-Upland	0.00	126.01	2.14
13754	LA-Upland	0.00	126.01	2.14
13755	LA-Upland	0.00	126.01	2.14
13756	LA-Upland	0.00	126.01	2.14
13757	LA-Upland	0.00	126.01	2.14
13758	LA-Upland	0.00	126.01	2.14
13759	LA-Upland	1.06	126.01	2.14
13760	LA-Upland	5.09	126.01	2.14
13761	LA-Upland	9.61	126.02	2.14
13762	LA-Upland	13.83	126.02	2.14
13763	LA-Upland	17.44	126.03	2.14
13764	LA-Upland	20.85	126.03	2.14
13765	LA-Upland	24.22	126.04	2.14
13766	LA-Upland	27.50	126.04	2.14
13767	LA-Upland	30.22	126.05	2.38
13768	LA-Upland	32.40	126.06	2.38
13769	LA-Upland	34.40	126.07	2.38
13770	LA-Upland	35.72	126.08	2.38
13771	LA-Upland	37.57	126.09	2.38
13772	LA-Upland	38.94	126.10	2.38
13773	LA-Upland	39.91	126.11	2.38
13774	LA-Upland	40.43	126.12	2.38
13775	LA-Upland	41.33	126.14	2.38
13776	LA-Upland	42.31	126.15	2.38
13777	LA-Upland	44.07	126.16	2.52
13778	LA-Upland	45.03	126.17	2.52
13779	LA-Upland	45.83	126.18	2.52
13780	LA-Upland	46.49	126.20	2.52
13781	LA-Upland	47.25	126.21	2.52
13782	LA-Upland	48.09	126.22	2.52
13783	LA-Upland	48.22	126.24	2.52
13784	LA-Upland	48.04	126.25	2.21
13785	LA-Upland	47.12	126.26	2.21
13786	LA-Upland	46.38	126.28	2.21
13787	LA-Upland	46.94	126.29	2.21
13788	LA-Upland	46.81	126.30	2.21
13789	LA-Upland	46.77	126.31	2.21
13790	LA-Upland	46.74	126.33	2.21
13791	LA-Upland	46.73	126.34	2.21
13792	LA-Upland	46.75	126.35	2.37
13793	LA-Upland	46.37	126.37	2.37
13794	LA-Upland	46.55	126.38	2.37
13795	LA-Upland	46.10	126.39	2.37
13796	LA-Upland	45.68	126.40	2.37
13797	LA-Upland	44.59	126.42	2.37
13798	LA-Upland	43.78	126.43	2.37
13799	LA-Upland	42.15	126.44	2.37
13800	LA-Upland	40.25	126.45	2.29
13801	LA-Upland	38.82	126.46	2.29
13802	LA-Upland	37.67	126.47	2.29
13803	LA-Upland	36.47	126.48	2.29
13804	LA-Upland	34.28	126.49	2.29
13805	LA-Upland	31.53	126.50	2.29
13806	LA-Upland	28.04	126.51	2.29

time (s)	route	speed (mph)	distance (mi)	grade (%)
13885	LA-Upland	49.43	126.81	0.27
13886	LA-Upland	50.02	126.82	0.27
13887	LA-Upland	50.86	126.84	0.27
13888	LA-Upland	51.59	126.85	0.55
13889	LA-Upland	52.25	126.87	0.55
13890	LA-Upland	52.13	126.88	0.55
13891	LA-Upland	51.33	126.89	0.55
13892	LA-Upland	52.03	126.91	0.55
13893	LA-Upland	52.57	126.92	0.55
13894	LA-Upland	52.97	126.94	0.55
13895	LA-Upland	53.14	126.95	-0.24
13896	LA-Upland	52.73	126.97	-0.24
13897	LA-Upland	52.07	126.98	-0.24
13898	LA-Upland	52.28	127.00	-0.24
13899	LA-Upland	52.49	127.01	-0.24
13900	LA-Upland	52.57	127.02	-0.24
13901	LA-Upland	52.64	127.04	-0.24
13902	LA-Upland	52.61	127.05	-0.36
13903	LA-Upland	52.80	127.07	-0.36
13904	LA-Upland	53.22	127.08	-0.36
13905	LA-Upland	53.69	127.10	-0.36
13906	LA-Upland	54.12	127.11	-0.36
13907	LA-Upland	54.53	127.13	-0.36
13908	LA-Upland	54.74	127.14	-0.36
13909	LA-Upland	54.34	127.16	1.02
13910	LA-Upland	52.99	127.17	1.02
13911	LA-Upland	51.47	127.19	1.02
13912	LA-Upland	49.86	127.20	1.02
13913	LA-Upland	47.74	127.21	1.02
13914	LA-Upland	44.33	127.22	1.02
13915	LA-Upland	40.13	127.24	1.02
13916	LA-Upland	35.81	127.25	1.02
13917	LA-Upland	31.74	127.25	0.73
13918	LA-Upland	28.40	127.26	0.73
13919	LA-Upland	25.21	127.27	0.73
13920	LA-Upland	22.00	127.28	0.73
13921	LA-Upland	18.84	127.28	0.73
13922	LA-Upland	14.81	127.28	0.73
13923	LA-Upland	11.03	127.29	0.73
13924	LA-Upland	7.29	127.29	0.73
13925	LA-Upland	3.83	127.29	0.73
13926	LA-Upland	1.67	127.29	0.73
13927	LA-Upland	0.17	127.29	0.73
13928	LA-Upland	0.00	127.29	0.73
13929	LA-Upland	0.00	127.29	0.73
13930	LA-Upland	0.00	127.29	0.73
13931	LA-Upland	0.00	127.29	0.73
13932	LA-Upland	0.00	127.29	0.73
13933	LA-Upland	0.00	127.29	0.73
13934	LA-Upland	0.00	127.29	0.73
13935	LA-Upland	0.00	127.29	0.73
13936	LA-Upland	0.00	127.29	0.73
13937	LA-Upland	0.00	127.29	0.73
13938	LA-Upland	0.00	127.29	0.73
13939	LA-Upland	0.00	127.29	0.73
13940	LA-Upland	0.00	127.29	0.73
13941	LA-Upland	0.00	127.29	0.73
13942	LA-Upland	0.00	127.29	0.73
13943	LA-Upland	0.00	127.29	0.73
13944	LA-Upland	0.00	127.29	0.73
13945	LA-Upland	0.00	127.29	0.73
13946	LA-Upland	0.00	127.29	0.73
13947	LA-Upland	0.00	127.29	0.73
13948	LA-Upland	0.00	127.29	0.73
13949	LA-Upland	0.00	127.29	0.73
13950	LA-Upland	0.00	127.29	0.73
13951	LA-Upland	0.00	127.29	0.73
13952	LA-Upland	0.00	127.29	0.73
13953	LA-Upland	2.10	127.29	0.73
13954	LA-Upland	8.58	127.29	0.73
13955	LA-Upland	14.60	127.30	0.73
13956	LA-Upland	18.83	127.30	0.73
13957	LA-Upland	22.73	127.31	0.73
13958	LA-Upland	25.89	127.32	0.73
13959	LA-Upland	28.62	127.32	0.73
13960	LA-Upland	29.73	127.33	0.73
13961	LA-Upland	31.78	127.34	0.73
13962	LA-Upland	33.47	127.35	3.00

time (s)	route	speed (mph)	distance (mi)	grade (%)
13807	LA-Upland	24.43	126.51	2.29
13808	LA-Upland	20.43	126.52	2.29
13809	LA-Upland	15.98	126.52	2.29
13810	LA-Upland	10.71	126.53	2.29
13811	LA-Upland	5.41	126.53	2.29
13812	LA-Upland	1.51	126.53	2.29
13813	LA-Upland	0.00	126.53	2.29
13814	LA-Upland	0.00	126.53	2.29
13815	LA-Upland	0.00	126.53	2.29
13816	LA-Upland	0.00	126.53	2.29
13817	LA-Upland	0.00	126.53	2.29
13818	LA-Upland	0.00	126.53	2.29
13819	LA-Upland	0.00	126.53	2.29
13820	LA-Upland	0.00	126.53	2.29
13821	LA-Upland	0.00	126.53	2.29
13822	LA-Upland	0.00	126.53	2.29
13823	LA-Upland	0.00	126.53	2.29
13824	LA-Upland	0.00	126.53	2.29
13825	LA-Upland	0.00	126.53	2.29
13826	LA-Upland	0.00	126.53	2.29
13827	LA-Upland	0.00	126.53	2.29
13828	LA-Upland	0.00	126.53	2.29
13829	LA-Upland	0.00	126.53	2.29
13830	LA-Upland	0.00	126.53	2.29
13831	LA-Upland	0.00	126.53	2.29
13832	LA-Upland	0.00	126.53	2.29
13833	LA-Upland	0.00	126.53	2.29
13834	LA-Upland	0.00	126.53	2.29
13835	LA-Upland	0.00	126.53	2.29
13836	LA-Upland	0.00	126.53	2.29
13837	LA-Upland	0.00	126.53	2.29
13838	LA-Upland	0.00	126.53	2.29
13839	LA-Upland	0.00	126.53	2.29
13840	LA-Upland	0.00	126.53	2.29
13841	LA-Upland	0.00	126.53	2.29
13842	LA-Upland	0.00	126.53	2.29
13843	LA-Upland	0.00	126.53	2.29
13844	LA-Upland	0.00	126.53	2.29
13845	LA-Upland	0.00	126.53	2.29
13846	LA-Upland	0.00	126.53	2.29
13847	LA-Upland	0.00	126.53	2.29
13848	LA-Upland	0.00	126.53	2.29
13849	LA-Upland	0.00	126.53	2.29
13850	LA-Upland	0.00	126.53	2.29
13851	LA-Upland	0.00	126.53	2.29
13852	LA-Upland	0.00	126.53	2.29
13853	LA-Upland	0.00	126.53	2.29
13854	LA-Upland	0.00	126.53	2.29
13855	LA-Upland	0.00	126.53	2.29
13856	LA-Upland	0.00	126.53	2.29
13857	LA-Upland	0.00	126.53	2.29
13858	LA-Upland	1.48	126.53	2.29
13859	LA-Upland	7.64	126.54	2.29
13860	LA-Upland	13.75	126.54	2.29
13861	LA-Upland	16.75	126.54	2.29
13862	LA-Upland	18.48	126.55	2.81
13863	LA-Upland	19.57	126.55	2.81
13864	LA-Upland	21.31	126.56	2.81
13865	LA-Upland	24.14	126.56	2.81
13866	LA-Upland	27.79	126.57	2.81
13867	LA-Upland	31.42	126.58	2.81
13868	LA-Upland	34.87	126.58	2.81
13869	LA-Upland	38.06	126.60	2.81
13870	LA-Upland	41.10	126.61	2.81
13871	LA-Upland	43.64	126.62	2.81
13872	LA-Upland	45.41	126.64	2.81
13873	LA-Upland	46.95	126.65	2.81
13874	LA-Upland	48.04	126.66	1.48
13875	LA-Upland	48.59	126.67	1.48
13876	LA-Upland	47.88	126.69	1.48

time (s)	route	speed (mph)	distance (mi)	grade (%)
14041	LA-Upland	38.35	128.03	0.19
14042	LA-Upland	38.12	128.04	0.19
14043	LA-Upland	38.46	128.05	0.19
14044	LA-Upland	38.78	128.06	1.18
14045	LA-Upland	38.08	128.07	1.18
14046	LA-Upland	38.54	128.08	1.18
14047	LA-Upland	39.12	128.09	1.18
14048	LA-Upland	39.02	128.10	1.18
14049	LA-Upland	38.77	128.11	1.18
14050	LA-Upland	39.08	128.12	1.18
14051	LA-Upland	39.52	128.13	1.18
14052	LA-Upland	39.40	128.14	1.18
14053	LA-Upland	38.95	128.16	0.78
14054	LA-Upland	38.91	128.17	0.78
14055	LA-Upland	39.31	128.18	0.78
14056	LA-Upland	39.34	128.19	0.78
14057	LA-Upland	38.50	128.20	0.78
14058	LA-Upland	37.67	128.21	0.78
14059	LA-Upland	36.82	128.22	0.78
14060	LA-Upland	34.76	128.23	0.78
14061	LA-Upland	22.25	128.24	0.78
14062	LA-Upland	31.31	128.25	0.78
14063	LA-Upland	30.55	128.25	0.51
14064	LA-Upland	29.95	128.26	0.51
14065	LA-Upland	29.49	128.27	0.51
14066	LA-Upland	28.67	128.28	0.51
14067	LA-Upland	27.02	128.29	0.51
14068	LA-Upland	25.05	128.29	0.51
14069	LA-Upland	22.84	128.30	0.51
14070	LA-Upland	20.16	128.30	0.51
14071	LA-Upland	17.14	128.31	0.51
14072	LA-Upland	13.70	128.31	0.51
14073	LA-Upland	10.55	128.32	0.51
14074	LA-Upland	6.99	128.32	0.51
14075	LA-Upland	3.18	128.32	0.51
14076	LA-Upland	1.44	128.32	0.51
14077	LA-Upland	0.00	128.32	0.51
14078	LA-Upland	0.00	128.32	0.51
14079	LA-Upland	0.00	128.32	0.51
14080	LA-Upland	0.00	128.32	0.51
14081	LA-Upland	0.00	128.32	0.51
14082	LA-Upland	0.00	128.32	0.51
14083	LA-Upland	0.00	128.32	0.51
14084	LA-Upland	0.00	128.32	0.51
14085	LA-Upland	0.00	128.32	0.51
14086	LA-Upland	0.00	128.32	0.51
14087	LA-Upland	0.00	128.32	0.51
14088	LA-Upland	0.00	128.32	0.51
14089	LA-Upland	0.00	128.32	0.51
14090	LA-Upland	0.00	128.32	0.51
14091	LA-Upland	0.00	128.32	0.51
14092	LA-Upland	0.00	128.32	0.51
14093	LA-Upland	0.00	128.32	0.51
14094	LA-Upland	0.00	128.32	0.51
14095	LA-Upland	0.00	128.32	0.51
14096	LA-Upland	0.00	128.32	0.51
14097	LA-Upland	0.00	128.32	0.51
14098	LA-Upland	0.00	128.32	0.51
14099	LA-Upland	0.00	128.32	0.51
14100	LA-Upland	0.00	128.32	0.51
14101	LA-Upland	0.00	128.32	0.51
14102	LA-Upland	0.00	128.32	0.51
14103	LA-Upland	0.00	128.32	0.51
14104	LA-Upland	0.00	128.32	0.51
14105	LA-Upland	0.00	128.32	0.51
14106	LA-Upland	0.00	128.32	0.51
14107	LA-Upland	0.00	128.32	0.51
14108	LA-Upland	0.00	128.32	0.51
14109	LA-Upland	0.00	128.32	0.51
14110	LA-Upland	0.00	128.32	0.51
14111	LA-Upland	0.00	128.32	0.51
14112	LA-Upland	0.00	128.32	0.51
14113	LA-Upland	0.00	128.32	0.51
14114	LA-Upland	0.00	128.32	0.51
14115	LA-Upland	0.00	128.32	0.51
14116	LA-Upland	0.00	128.32	0.51
14117	LA-Upland	0.00	128.32	0.51
14118	LA-Upland	0.00	128.32	0.51

time (s)	route	speed (mph)	distance (mi)	grade (%)
14197	LA-Upland	29.67	128.51	0.58
14198	LA-Upland	31.60	128.52	0.58
14199	LA-Upland	32.82	128.52	0.58
14200	LA-Upland	33.16	128.53	0.58
14201	LA-Upland	33.91	128.54	0.58
14202	LA-Upland	35.19	128.55	0.31
14203	LA-Upland	36.00	128.56	0.31
14204	LA-Upland	35.85	128.57	0.31
14205	LA-Upland	35.32	128.58	0.31
14206	LA-Upland	34.86	128.59	0.31
14207	LA-Upland	34.63	128.60	0.31
14208	LA-Upland	34.01	128.61	0.31
14209	LA-Upland	34.67	128.62	0.31
14210	LA-Upland	35.38	128.63	0.31
14211	LA-Upland	36.43	128.64	0.31
14212	LA-Upland	37.62	128.65	0.31
14213	LA-Upland	39.28	128.66	0.38
14214	LA-Upland	40.75	128.67	0.38
14215	LA-Upland	41.49	128.68	0.38
14216	LA-Upland	41.38	128.69	0.38
14217	LA-Upland	40.85	128.71	0.38
14218	LA-Upland	41.38	128.72	0.38
14219	LA-Upland	40.99	128.73	0.38
14220	LA-Upland	40.01	128.74	0.38
14221	LA-Upland	39.13	128.75	0.20
14222	LA-Upland	38.77	128.76	0.20
14223	LA-Upland	39.15	128.77	0.20
14224	LA-Upland	38.50	128.78	0.20
14225	LA-Upland	37.47	128.79	0.20
14226	LA-Upland	35.48	128.80	0.20
14227	LA-Upland	33.60	128.81	0.20
14228	LA-Upland	29.45	128.82	0.20
14229	LA-Upland	26.48	128.83	0.20
14230	LA-Upland	23.22	128.83	0.20
14231	LA-Upland	20.71	128.84	0.20
14232	LA-Upland	18.00	128.84	0.20
14233	LA-Upland	16.50	128.85	0.20
14234	LA-Upland	15.11	128.85	0.59
14235	LA-Upland	13.15	128.86	0.59
14236	LA-Upland	10.75	128.86	0.59
14237	LA-Upland	8.35	128.86	0.59
14238	LA-Upland	5.73	128.86	0.59
14239	LA-Upland	4.33	128.86	0.59
14240	LA-Upland	3.27	128.86	0.59
14241	LA-Upland	2.36	128.87	0.59
14242	LA-Upland	1.79	128.87	0.59
14243	LA-Upland	0.57	128.87	0.59
14244	LA-Upland	0.00	128.87	0.59
14245	LA-Upland	0.00	128.87	0.59
14246	LA-Upland	0.00	128.87	0.59
14247	LA-Upland	0.00	128.87	0.59
14248	LA-Upland	0.00	128.87	0.59
14249	LA-Upland	0.00	128.87	0.59
14250	LA-Upland	0.00	128.87	0.59
14251	LA-Upland	0.00	128.87	0.59
14252	LA-Upland	0.00	128.87	0.59
14253	LA-Upland	0.00	128.87	0.59
14254	LA-Upland	0.00	128.87	0.59
14255	LA-Upland	0.00	128.87	0.59
14256	LA-Upland	0.00	128.87	0.59
14257	LA-Upland	0.00	128.87	0.59
14258	LA-Upland	0.00	128.87	0.59
14259	LA-Upland	1.95	128.87	0.59
14260	LA-Upland	7.42	128.87	0.59
14261	LA-Upland	13.17	128.87	0.59
14262	LA-Upland	17.27	128.88	0.59
14263	LA-Upland	20.84	128.88	0.59
14264	LA-Upland	24.60	128.89	0.59
14265	LA-Upland	26.86	128.90	0.59
14266	LA-Upland	29.43	128.90	0.59
14267	LA-Upland	31.95	128.91	0.59
14268	LA-Upland	33.87	128.92	0.59
14269	LA-Upland	34.98	128.93	0.59
14270	LA-Upland	34.73	128.94	0.59
14271	LA-Upland	35.12	128.95	0.48
14272	LA-Upland	35.01	128.96	0.48
14273	LA-Upland	34.10	128.97	0.48
14274	LA-Upland	34.12	128.98	0.48

time (s)	route	speed (mph)	distance (mi)	grade (%)
14119	LA-Upland	0.00	128.32	0.51
14120	LA-Upland	0.00	128.32	0.51
14121	LA-Upland	0.00	128.32	0.51
14122	LA-Upland	0.00	128.32	0.51
14123	LA-Upland	0.00	128.32	0.51
14124	LA-Upland	0.00	128.32	0.51
14125	LA-Upland	0.00	128.32	0.51
14126	LA-Upland	0.00	128.32	0.51
14127	LA-Upland	0.00	128.32	0.51
14128	LA-Upland	0.00	128.32	0.51
14129	LA-Upland	0.00	128.32	0.51
14130	LA-Upland	0.00	128.32	0.51
14131	LA-Upland	0.00	128.32	0.51
14132	LA-Upland	0.00	128.32	0.51
14133	LA-Upland	0.00	128.32	0.51
14134	LA-Upland	0.00	128.32	0.51
14135	LA-Upland	0.00	128.32	0.51
14136	LA-Upland	0.00	128.32	0.51
14137	LA-Upland	0.00	128.32	0.51
14138	LA-Upland	1.32	128.32	0.51
14139	LA-Upland	6.61	128.32	0.51
14140	LA-Upland	11.30	128.32	0.51
14141	LA-Upland	14.52	128.33	0.51
14142	LA-Upland	17.14	128.33	0.51
14143	LA-Upland	19.67	128.34	0.51
14144	LA-Upland	22.21	128.34	0.51
14145	LA-Upland	24.53	128.35	0.35
14146	LA-Upland	26.60	128.36	0.35
14147	LA-Upland	28.21	128.37	0.35
14148	LA-Upland	29.55	128.37	0.35
14149	LA-Upland	31.15	128.38	0.35
14150	LA-Upland	32.62	128.39	0.35
14151	LA-Upland	32.15	128.40	0.35
14152	LA-Upland	30.30	128.41	0.35
14153	LA-Upland	27.58	128.42	0.35
14154	LA-Upland	25.14	128.42	0.35
14155	LA-Upland	23.19	128.43	0.35
14156	LA-Upland	21.34	128.44	0.35
14157	LA-Upland	19.31	128.44	0.35
14158	LA-Upland	17.07	128.45	0.35
14159	LA-Upland	14.55	128.45	0.35
14160	LA-Upland	11.70	128.45	0.58
14161	LA-Upland	9.40	128.46	0.58
14162	LA-Upland	7.31	128.46	0.58
14163	LA-Upland	6.03	128.46	0.58
14164	LA-Upland	5.77	128.46	0.58
14165	LA-Upland	5.35	128.46	0.58
14166	LA-Upland	4.41	128.46	0.58
14167	LA-Upland	3.25	128.46	0.58
14168	LA-Upland	1.61	128.46	0.58
14169	LA-Upland	0.00	128.46	0.58
14170	LA-Upland	0.00	128.46	0.58
14171	LA-Upland	0.00	128.46	0.58
14172	LA-Upland	0.00	128.46	0.58
14173	LA-Upland	0.00	128.46	0.58
14174	LA-Upland	0.00	128.46	0.58
14175	LA-Upland	0.00	128.46	0.58
14176	LA-Upland	0.00	128.46	0.58
14177	LA-Upland	0.00	128.46	0.58
14178	LA-Upland	0.00	128.46	0.58
14179	LA-Upland	0.00	128.46	0.58
14180	LA-Upland	0.00	128.46	0.58
14181	LA-Upland	0.00	128.46	0.58
14182	LA-Upland	0.00	128.46	0.58
14183	LA-Upland	0.00	128.46	0.58
14184	LA-Upland	0.00	128.46	0.58
14185	LA-Upland	0.00	128.46	0.58
14186	LA-Upland	0.00	128.46	0.58
14187	LA-Upland	0.00	128.46	0.58
14188	LA-Upland	0.00	128.46	0.58
14189	LA-Upland	1.52	128.47	0.58
14190	LA-Upland			

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time (s)	route	speed (mph)	distance (mi)	grade (%)
14353	LA-Upland	0.00	129.43	0.32
14354	LA-Upland	0.00	129.43	0.32
14355	LA-Upland	0.00	129.43	0.32
14356	LA-Upland	0.00	129.43	0.32
14357	LA-Upland	0.00	129.43	0.32
14358	LA-Upland	0.00	129.43	0.32
14359	LA-Upland	0.00	129.43	0.32
14360	LA-Upland	0.00	129.43	0.32
14361	LA-Upland	0.00	129.43	0.32
14362	LA-Upland	0.00	129.43	0.32
14363	LA-Upland	0.00	129.43	0.32
14364	LA-Upland	0.00	129.43	0.32
14365	LA-Upland	0.00	129.43	0.32
14366	LA-Upland	0.00	129.43	0.32
14367	LA-Upland	0.00	129.43	0.32
14368	LA-Upland	0.00	129.43	0.32
14369	LA-Upland	0.00	129.43	0.32
14370	LA-Upland	0.00	129.43	0.32
14371	LA-Upland	0.00	129.43	0.32
14372	LA-Upland	0.00	129.43	0.32
14373	LA-Upland	0.00	129.43	0.32
14374	LA-Upland	0.00	129.43	0.32
14375	LA-Upland	0.00	129.43	0.32
14376	LA-Upland	0.00	129.43	0.32
14377	LA-Upland	0.00	129.43	0.32
14378	LA-Upland	0.00	129.43	0.32
14379	LA-Upland	0.00	129.43	0.32
14380	LA-Upland	0.00	129.43	0.32
14381	LA-Upland	0.00	129.43	0.32
14382	LA-Upland	0.00	129.43	0.32
14383	LA-Upland	0.00	129.43	0.32
14384	LA-Upland	0.00	129.43	0.32
14385	LA-Upland	0.00	129.43	0.32
14386	LA-Upland	0.00	129.43	0.32
14387	LA-Upland	0.00	129.43	0.32
14388	LA-Upland	0.00	129.43	0.32
14389	LA-Upland	0.00	129.43	0.32
14390	LA-Upland	0.00	129.43	0.32
14391	LA-Upland	0.00	129.43	0.32
14392	LA-Upland	0.00	129.43	0.32
14393	LA-Upland	0.00	129.43	0.32
14394	LA-Upland	0.00	129.43	0.32
14395	LA-Upland	0.14	129.43	0.32
14396	LA-Upland	3.13	129.43	0.32
14397	LA-Upland	8.39	129.43	0.32
14398	LA-Upland	13.26	129.43	0.32
14399	LA-Upland	16.73	129.44	0.32
14400	LA-Upland	19.64	129.44	0.32
14401	LA-Upland	20.95	129.45	0.32
14402	LA-Upland	22.91	129.46	0.43
14403	LA-Upland	25.40	129.46	0.43
14404	LA-Upland	27.80	129.47	0.43
14405	LA-Upland	29.42	129.48	0.43
14406	LA-Upland	30.34	129.49	0.43
14407	LA-Upland	29.62	129.50	0.43
14408	LA-Upland	28.85	129.50	0.43
14409	LA-Upland	28.31	129.51	0.43
14410	LA-Upland	28.25	129.52	0.43
14411	LA-Upland	27.55	129.53	0.43
14412	LA-Upland	28.50	129.53	0.43
14413	LA-Upland	30.11	129.54	0.43
14414	LA-Upland	31.75	129.55	0.80
14415	LA-Upland	32.75	129.56	0.80
14416	LA-Upland	32.78	129.57	0.80
14417	LA-Upland	31.56	129.58	0.80
14418	LA-Upland	31.84	129.59	0.80
14419	LA-Upland	32.99	129.60	0.80
14420	LA-Upland	32.83	129.60	0.80
14421	LA-Upland	32.10	129.61	0.80
14422	LA-Upland	31.29	129.62	0.80
14423	LA-Upland	30.06	129.63	0.80
14424	LA-Upland	27.92	129.64	0.80
14425	LA-Upland	24.60	129.64	0.80
14426	LA-Upland	21.49	129.65	-0.24
14427	LA-Upland	18.11	129.66	-0.24
14428	LA-Upland	15.67	129.66	-0.24
14429	LA-Upland	13.48	129.66	-0.24
14430	LA-Upland	11.09	129.67	-0.24

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time (s)	route	speed (mph)	distance (mi)	grade (%)
14509	LA-Upland	40.59	130.12	0.29
14510	LA-Upland	41.30	130.14	0.29
14511	LA-Upland	41.29	130.15	0.29
14512	LA-Upland	40.53	130.16	0.34
14513	LA-Upland	40.73	130.17	0.34
14514	LA-Upland	41.31	130.18	0.34
14515	LA-Upland	41.32	130.19	0.34
14516	LA-Upland	42.15	130.20	0.34
14517	LA-Upland	42.71	130.22	0.34
14518	LA-Upland	43.26	130.23	0.34
14519	LA-Upland	43.73	130.24	0.34
14520	LA-Upland	43.17	130.25	0.49
14521	LA-Upland	42.51	130.26	0.49
14522	LA-Upland	42.84	130.28	0.49
14523	LA-Upland	43.28	130.29	0.49
14524	LA-Upland	43.13	130.30	0.49
14525	LA-Upland	42.42	130.31	0.49
14526	LA-Upland	41.65	130.32	0.49
14527	LA-Upland	41.32	130.33	0.49
14528	LA-Upland	41.30	130.34	0.49
14529	LA-Upland	40.78	130.36	0.19
14530	LA-Upland	39.97	130.37	0.19
14531	LA-Upland	39.11	130.38	0.19
14532	LA-Upland	38.67	130.39	0.19
14533	LA-Upland	38.80	130.40	0.19
14534	LA-Upland	39.50	130.41	0.19
14535	LA-Upland	39.81	130.42	0.19
14536	LA-Upland	39.32	130.43	0.19
14537	LA-Upland	38.83	130.44	0.19
14538	LA-Upland	39.06	130.45	0.03
14539	LA-Upland	38.12	130.46	0.03
14540	LA-Upland	37.64	130.47	0.03
14541	LA-Upland	37.51	130.48	0.03
14542	LA-Upland	36.88	130.49	0.03
14543	LA-Upland	36.36	130.50	0.03
14544	LA-Upland	35.47	130.51	0.03
14545	LA-Upland	34.83	130.52	0.03
14546	LA-Upland	34.12	130.53	0.03
14547	LA-Upland	32.56	130.54	0.03
14548	LA-Upland	30.41	130.55	-0.35
14549	LA-Upland	27.79	130.56	-0.35
14550	LA-Upland	23.92	130.56	-0.35
14551	LA-Upland	19.33	130.57	-0.35
14552	LA-Upland	14.30	130.57	-0.35
14553	LA-Upland	10.92	130.58	-0.35
14554	LA-Upland	9.40	130.58	-0.35
14555	LA-Upland	6.14	130.58	-0.35
14556	LA-Upland	3.42	130.58	-0.35
14557	LA-Upland	1.23	130.58	-0.35
14558	LA-Upland	0.00	130.58	-0.35
14559	LA-Upland	0.00	130.58	-0.35
14560	LA-Upland	0.00	130.58	-0.35
14561	LA-Upland	0.00	130.58	-0.35
14562	LA-Upland	0.00	130.58	-0.35
14563	LA-Upland	0.00	130.58	-0.35
14564	LA-Upland	0.00	130.58	-0.35
14565	LA-Upland	0.00	130.58	-0.35
14566	LA-Upland	0.00	130.58	-0.35
14567	LA-Upland	0.00	130.58	-0.35
14568	LA-Upland	0.00	130.58	-0.35
14569	LA-Upland	0.00	130.58	-0.35
14570	LA-Upland	0.00	130.58	-0.35
14571	LA-Upland	0.00	130.58	-0.35
14572	LA-Upland	0.00	130.58	-0.35
14573	LA-Upland	0.00	130.58	-0.35
14574	LA-Upland	0.00	130.58	-0.35
14575	LA-Upland	0.00	130.58	-0.35
14576	LA-Upland	0.00	130.58	-0.35
14577	LA-Upland	0.00	130.58	-0.35
14578	LA-Upland	0.00	130.58	-0.35
14579	LA-Upland	0.00	130.58	-0.35
14580	LA-Upland	0.00	130.58	-0.35
14581	LA-Upland	0.00	130.58	-0.35
14582	LA-Upland	0.00	130.58	-0.35
14583	LA-Upland	0.00	130.58	-0.35
14584	LA-Upland	0.00	130.58	-0.35
14585	LA-Upland	0.00	130.58	-0.35
14586	LA-Upland	0.00	130.58	-0.35

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time (s)	route	speed (mph)	distance (mi)	grade (%)
14431	LA-Upland	8.86	129.67	-0.24
14432	LA-Upland	6.70	129.67	-0.24
14433	LA-Upland	5.20	129.67	-0.24
14434	LA-Upland	4.26	129.67	-0.24
14435	LA-Upland	3.12	129.67	-0.24
14436	LA-Upland	1.71	129.68	-0.24
14437	LA-Upland	0.17	129.68	-0.24
14438	LA-Upland	0.00	129.68	-0.24
14439	LA-Upland	0.00	129.68	-0.24
14440	LA-Upland	0.00	129.68	-0.24
14441	LA-Upland	0.00	129.68	-0.24
14442	LA-Upland	0.00	129.68	-0.24
14443	LA-Upland	0.00	129.68	-0.24
14444	LA-Upland	0.00	129.68	-0.24
14445	LA-Upland	0.00	129.68	-0.24
14446	LA-Upland	0.00	129.68	-0.24
14447	LA-Upland	0.00	129.68	-0.24
14448	LA-Upland	0.00	129.68	-0.24
14449	LA-Upland	0.00	129.68	-0.24
14450	LA-Upland	0.00	129.68	-0.24
14451	LA-Upland	0.00	129.68	-0.24
14452	LA-Upland	0.00	129.68	-0.24
14453	LA-Upland	0.00	129.68	-0.24
14454	LA-Upland	0.22	129.68	-0.24
14455	LA-Upland	3.49	129.68	-0.24
14456	LA-Upland	7.47	129.68	-0.24
14457	LA-Upland	8.18	129.68	-0.24
14458	LA-Upland	8.43	129.68	-0.24
14459	LA-Upland	11.22	129.69	-0.24
14460	LA-Upland	14.03	129.69	-0.24
14461	LA-Upland	16.28	129.69	-0.24
14462	LA-Upland	18.72	129.70	-0.24
14463	LA-Upland	20.64	129.70	-0.24
14464	LA-Upland	22.24	129.71	-0.24
14465	LA-Upland	23.77	129.72	-0.24
14466	LA-Upland	25.34	129.72	-0.24
14467	LA-Upland	26.83	129.73	-0.24
14468	LA-Upland	28.03	129.74	-0.24
14469	LA-Upland	28.48	129.75	-0.24
14470	LA-Upland	27.70	129.76	0.09
14471	LA-Upland	26.79	129.76	0.09
14472	LA-Upland	26.46	129.77	0.09
14473	LA-Upland	26.32	129.78	0.09
14474	LA-Upland	26.88	129.78	0.09
14475	LA-Upland	27.66	129.79	0.09
14476	LA-Upland	28.50	129.80	0.09
14477	LA-Upland	29.12	129.81	0.09
14478	LA-Upland	29.72	129.81	0.09
14479	LA-Upland	30.38	129.82	0.09
14480	LA-Upland	30.98	129.83	0.09
14481	LA-Upland	31.75	129.84	0.09
14482	LA-Upland	32.49	129.85	0.64
14483	LA-Upland	33.42	129.86	0.64
14484	LA-Upland	34.37	129.87	0.64
14485	LA-Upland	34.63	129.88	0.64
14486	LA-Upland	33.57	129.89	0.64
14487	LA-Upland	34.21	129.90	0.64
14488	LA-Upland	34.97	129.91	0.64
14489	LA-Upland	35.86	129.92	0.64
14490	LA-Upland	36.04	129.93	0.64
14491	LA-Upland	36.45	129.94	0.64
14492	LA-Upland	36.62	129.95	0.64
14493	LA-Upland	36.73	129.96	0.44
14494	LA-Upland	35.85	129.97	0.44
14495	LA-Upland	35.15	129.98	0.44
14496				

time (s)	route	speed (mph)	distance (mi)	grade (%)
14665	LA-Upland	50.55	131.09	0.09
14666	LA-Upland	49.87	131.11	0.09
14667	LA-Upland	49.22	131.12	0.09
14668	LA-Upland	48.78	131.13	0.09
14669	LA-Upland	47.55	131.15	0.09
14670	LA-Upland	45.83	131.16	-0.37
14671	LA-Upland	43.74	131.17	-0.37
14672	LA-Upland	41.46	131.18	-0.37
14673	LA-Upland	39.32	131.19	-0.37
14674	LA-Upland	36.76	131.20	-0.37
14675	LA-Upland	34.89	131.21	-0.37
14676	LA-Upland	34.28	131.22	-0.37
14677	LA-Upland	33.53	131.23	-0.37
14678	LA-Upland	32.94	131.24	-0.37
14679	LA-Upland	31.75	131.25	-0.37
14680	LA-Upland	30.63	131.26	-0.51
14681	LA-Upland	30.01	131.26	-0.51
14682	LA-Upland	28.57	131.27	-0.51
14683	LA-Upland	26.53	131.28	-0.51
14684	LA-Upland	23.75	131.29	-0.51
14685	LA-Upland	21.92	131.29	-0.51
14686	LA-Upland	18.99	131.30	-0.51
14687	LA-Upland	15.70	131.30	-0.51
14688	LA-Upland	13.85	131.31	-0.51
14689	LA-Upland	11.14	131.31	-0.51
14690	LA-Upland	9.57	131.31	-0.51
14691	LA-Upland	7.79	131.31	-0.51
14692	LA-Upland	6.05	131.31	-0.51
14693	LA-Upland	4.92	131.32	-0.51
14694	LA-Upland	4.02	131.32	-0.51
14695	LA-Upland	3.26	131.32	-0.51
14696	LA-Upland	2.38	131.32	-0.51
14697	LA-Upland	1.64	131.32	-0.51
14698	LA-Upland	2.32	131.32	-0.51
14699	LA-Upland	4.50	131.32	-0.51
14700	LA-Upland	7.86	131.32	-0.51
14701	LA-Upland	11.19	131.33	-0.51
14702	LA-Upland	14.94	131.33	-0.51
14703	LA-Upland	18.36	131.34	-0.51
14704	LA-Upland	21.78	131.34	-0.51
14705	LA-Upland	24.85	131.35	-0.51
14706	LA-Upland	27.26	131.36	-0.63
14707	LA-Upland	29.56	131.36	-0.63
14708	LA-Upland	31.18	131.37	-0.63
14709	LA-Upland	32.08	131.38	-0.63
14710	LA-Upland	32.21	131.39	-0.63
14711	LA-Upland	32.40	131.40	-0.63
14712	LA-Upland	31.69	131.41	-0.63
14713	LA-Upland	30.83	131.42	-0.63
14714	LA-Upland	30.45	131.42	-0.63
14715	LA-Upland	29.64	131.43	-0.63
14716	LA-Upland	28.47	131.44	-0.63
14717	LA-Upland	27.72	131.45	-0.63
14718	LA-Upland	28.15	131.46	-0.41
14719	LA-Upland	28.59	131.46	-0.41
14720	LA-Upland	30.36	131.47	-0.41
14721	LA-Upland	31.90	131.48	-0.41
14722	LA-Upland	33.27	131.49	-0.41
14723	LA-Upland	34.94	131.50	-0.41
14724	LA-Upland	36.13	131.51	-0.41
14725	LA-Upland	37.13	131.52	-0.41
14726	LA-Upland	38.09	131.53	-0.41
14727	LA-Upland	38.34	131.54	-0.41
14728	LA-Upland	37.93	131.55	-0.23
14729	LA-Upland	36.73	131.56	-0.23
14730	LA-Upland	34.46	131.57	-0.23
14731	LA-Upland	31.02	131.58	-0.23
14732	LA-Upland	27.19	131.59	-0.23
14733	LA-Upland	23.58	131.59	-0.23
14734	LA-Upland	19.10	131.60	-0.23
14735	LA-Upland	16.24	131.60	-0.23
14736	LA-Upland	16.07	131.61	-0.23
14737	LA-Upland	18.14	131.61	-0.23
14738	LA-Upland	22.37	131.62	-0.23
14739	LA-Upland	27.89	131.63	-0.23
14740	LA-Upland	32.72	131.64	-0.23
14741	LA-Upland	36.07	131.65	-0.23
14742	LA-Upland	39.19	131.66	-0.29

time (s)	route	speed (mph)	distance (mi)	grade (%)
14821	LA-Upland	19.02	132.62	4.05
14822	LA-Upland	21.60	132.63	4.05
14823	LA-Upland	23.51	132.63	4.05
14824	LA-Upland	24.98	132.64	4.05
14825	LA-Upland	25.70	132.65	4.05
14826	LA-Upland	24.82	132.65	6.26
14827	LA-Upland	22.60	132.66	6.26
14828	LA-Upland	20.34	132.67	6.26
14829	LA-Upland	18.04	132.67	6.26
14830	LA-Upland	15.66	132.67	6.26
14831	LA-Upland	12.93	132.68	6.26
14832	LA-Upland	9.21	132.68	6.26
14833	LA-Upland	5.68	132.68	6.26
14834	LA-Upland	3.13	132.68	6.26
14835	LA-Upland	0.84	132.68	6.26
14836	LA-Upland	0.00	132.68	6.26
14837	LA-Upland	0.00	132.68	6.26
14838	LA-Upland	0.00	132.68	6.26
14839	LA-Upland	0.00	132.68	6.26
14840	LA-Upland	0.00	132.68	6.26
14841	LA-Upland	0.00	132.68	6.26
14842	LA-Upland	0.00	132.68	6.26
14843	LA-Upland	0.00	132.68	6.26
14844	LA-Upland	0.00	132.68	6.26
14845	LA-Upland	0.00	132.68	6.26
14846	LA-Upland	0.00	132.68	6.26
14847	LA-Upland	0.00	132.68	6.26
14848	LA-Upland	0.00	132.68	6.26
14849	LA-Upland	0.00	132.68	6.26
14850	LA-Upland	0.00	132.68	6.26
14851	LA-Upland	0.00	132.68	6.26
14852	LA-Upland	0.00	132.68	6.26
14853	LA-Upland	0.00	132.68	6.26
14854	LA-Upland	0.00	132.68	6.26
14855	LA-Upland	0.00	132.68	6.26
14856	LA-Upland	0.00	132.68	6.26
14857	LA-Upland	0.00	132.68	6.26
14858	LA-Upland	0.00	132.68	6.26
14859	LA-Upland	0.00	132.68	6.26
14860	LA-Upland	0.00	132.68	6.26
14861	LA-Upland	0.00	132.68	6.26
14862	LA-Upland	0.00	132.68	6.26
14863	LA-Upland	0.81	132.68	6.26
14864	LA-Upland	1.90	132.68	6.26
14865	LA-Upland	5.13	132.69	6.26
14866	LA-Upland	10.31	132.69	6.26
14867	LA-Upland	15.00	132.69	6.26
14868	LA-Upland	18.18	132.70	6.26
14869	LA-Upland	21.76	132.70	6.26
14870	LA-Upland	24.64	132.71	6.26
14871	LA-Upland	27.49	132.72	6.26
14872	LA-Upland	29.53	132.73	6.26
14873	LA-Upland	31.21	132.73	6.26
14874	LA-Upland	32.53	132.74	6.26
14875	LA-Upland	33.50	132.75	1.23
14876	LA-Upland	34.53	132.76	1.23
14877	LA-Upland	35.81	132.77	1.23
14878	LA-Upland	35.63	132.78	1.23
14879	LA-Upland	34.48	132.79	1.23
14880	LA-Upland	34.39	132.80	1.23
14881	LA-Upland	34.82	132.81	1.23
14882	LA-Upland	34.05	132.82	1.23
14883	LA-Upland	33.41	132.83	1.23
14884	LA-Upland	32.63	132.84	1.23
14885	LA-Upland	30.12	132.85	1.23
14886	LA-Upland	25.83	132.85	2.56
14887	LA-Upland	20.11	132.86	2.56
14888	LA-Upland	14.24	132.86	2.56
14889	LA-Upland	9.25	132.87	2.56
14890	LA-Upland	5.54	132.87	2.56
14891	LA-Upland	3.68	132.87	2.56
14892	LA-Upland	2.50	132.87	2.56
14893	LA-Upland	1.82	132.87	2.56
14894	LA-Upland	1.22	132.87	2.56
14895	LA-Upland	0.33	132.87	2.56
14896	LA-Upland	0.00	132.87	2.56
14897	LA-Upland	0.00	132.87	2.56
14898	LA-Upland	0.00	132.87	2.56

time (s)	route	speed (mph)	distance (mi)	grade (%)
14743	LA-Upland	41.74	131.67	-0.29
14744	LA-Upland	43.53	131.68	-0.29
14745	LA-Upland	45.27	131.69	-0.29
14746	LA-Upland	46.75	131.70	-0.29
14747	LA-Upland	48.22	131.72	-0.29
14748	LA-Upland	49.63	131.73	-0.29
14749	LA-Upland	50.88	131.75	-0.29
14750	LA-Upland	51.88	131.76	-0.78
14751	LA-Upland	52.75	131.77	-0.78
14752	LA-Upland	53.25	131.79	-0.78
14753	LA-Upland	53.80	131.80	-0.78
14754	LA-Upland	54.33	131.82	-0.78
14755	LA-Upland	53.97	131.83	-0.78
14756	LA-Upland	52.58	131.85	-0.78
14757	LA-Upland	52.42	131.86	2.09
14758	LA-Upland	52.30	131.88	2.09
14759	LA-Upland	52.88	131.89	2.09
14760	LA-Upland	54.63	131.91	2.09
14761	LA-Upland	55.15	131.92	2.09
14762	LA-Upland	54.36	131.94	2.09
14763	LA-Upland	53.49	131.95	2.09
14764	LA-Upland	53.93	131.97	3.05
14765	LA-Upland	54.63	131.98	3.05
14766	LA-Upland	53.77	132.00	3.05
14767	LA-Upland	52.46	132.01	3.05
14768	LA-Upland	52.29	132.02	3.05
14769	LA-Upland	52.77	132.04	3.05
14770	LA-Upland	53.19	132.05	4.71
14771	LA-Upland	53.63	132.07	4.71
14772	LA-Upland	54.18	132.08	4.71
14773	LA-Upland	54.42	132.09	4.71
14774	LA-Upland	55.11	132.11	4.71
14775	LA-Upland	55.81	132.13	4.71
14776	LA-Upland	56.15	132.14	4.71
14777	LA-Upland	56.67	132.16	3.79
14778	LA-Upland	56.18	132.18	3.79
14779	LA-Upland	56.08	132.19	3.79
14780	LA-Upland	56.13	132.21	3.79
14781	LA-Upland	56.22	132.22	3.79
14782	LA-Upland	56.21	132.24	3.79
14783	LA-Upland	56.34	132.25	3.14
14784	LA-Upland	56.68	132.27	3.14
14785	LA-Upland	56.83	132.28	3.14
14786	LA-Upland	55.96	132.30	3.14
14787	LA-Upland	54.80	132.31	3.14
14788	LA-Upland	55.01	132.33	3.14
14789	LA-Upland	55.23	132.34	3.14
14790	LA-Upland	55.11	132.36	2.84
14791	LA-Upland	55.96	132.38	2.84
14792	LA-Upland	56.32	132.39	2.84
14793	LA-Upland	56.15	132.41	2.84
14794	LA-Upland	55.93	132.42	2.84
14795	LA-Upland	53.37	132.44	2.84
14796	LA-Upland	51.23	132.45	3.48
14797	LA-Upland	49.63	132.46	3.48
14798	LA-Upland	47.39	132.48	3.48
14799	LA-Upland	44.41	132.49	3.48
14800	LA-Upland	41.09	132.50	2.14
14801	LA-Upland	38.36	132.51	3.48
14802	LA-Upland	35.56	132.52	3.48
14803	LA-Upland	32.90	132.53	3.48
14804	LA-Upland	29.63	132.54	3.48
14805	LA-Upland	23.26	132.54	3.48
14806	LA-Upland	18.16	132.55	3.48
14807	LA-Upland	15.46	132.55	4.05



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Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Contains data for routes LA-Upland from time 14877 to 15054.

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Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Contains data for routes IteUpland-01 from time 15133 to 15210.

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Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Contains data for routes IteUpland-01 from time 15055 to 15132.

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Table with 5 columns: time [s], route, speed [mph], distance [mi], grade [%]. Contains data for routes IteUpland-01 from time 15211 to 15288.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 15289 through 15366.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 15445 through 15522.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 15367 through 15444.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 15523 through 15600.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 15601-15678.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 15679-15756.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 15757-15884.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 15885-15992.

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time (s)	route	speed (mph)	distance (mi)	grade (%)
19913	Upland-MtBaldy	31.44	139.72	3.82
19914	Upland-MtBaldy	30.23	139.73	3.82
19915	Upland-MtBaldy	29.39	139.74	3.82
19916	Upland-MtBaldy	29.06	139.75	3.82
19917	Upland-MtBaldy	29.00	139.76	5.97
19918	Upland-MtBaldy	31.07	139.77	5.97
19919	Upland-MtBaldy	33.31	139.77	5.97
19920	Upland-MtBaldy	34.22	139.78	5.97
19921	Upland-MtBaldy	33.52	139.79	5.97
19922	Upland-MtBaldy	33.62	139.80	5.97
19923	Upland-MtBaldy	33.74	139.81	5.97
19924	Upland-MtBaldy	34.02	139.82	5.97
19925	Upland-MtBaldy	33.95	139.83	5.97
19926	Upland-MtBaldy	32.92	139.84	5.97
19927	Upland-MtBaldy	31.84	139.85	5.97
19928	Upland-MtBaldy	31.01	139.86	8.80
19929	Upland-MtBaldy	30.80	139.87	8.80
19930	Upland-MtBaldy	30.56	139.87	8.80
19931	Upland-MtBaldy	30.12	139.88	8.80
19932	Upland-MtBaldy	29.41	139.89	8.80
19933	Upland-MtBaldy	28.63	139.90	8.80
19934	Upland-MtBaldy	28.11	139.91	8.80
19935	Upland-MtBaldy	27.49	139.91	8.80
19936	Upland-MtBaldy	28.07	139.92	8.80
19937	Upland-MtBaldy	30.18	139.93	8.80
19938	Upland-MtBaldy	31.61	139.94	8.80
19939	Upland-MtBaldy	33.34	139.95	8.80
19940	Upland-MtBaldy	34.77	139.96	7.31
19941	Upland-MtBaldy	35.75	139.97	7.31
19942	Upland-MtBaldy	36.05	139.98	7.31
19943	Upland-MtBaldy	35.59	139.99	7.31
19944	Upland-MtBaldy	35.70	140.00	7.31
19945	Upland-MtBaldy	35.74	140.01	7.31
19946	Upland-MtBaldy	36.10	140.02	7.31
19947	Upland-MtBaldy	36.78	140.03	7.31
19948	Upland-MtBaldy	37.55	140.04	7.31
19949	Upland-MtBaldy	37.60	140.05	7.31
19950	Upland-MtBaldy	37.72	140.06	9.80
19951	Upland-MtBaldy	37.54	140.07	9.80
19952	Upland-MtBaldy	36.76	140.08	9.80
19953	Upland-MtBaldy	35.83	140.09	9.80
19954	Upland-MtBaldy	35.33	140.10	9.80
19955	Upland-MtBaldy	35.03	140.11	9.80
19956	Upland-MtBaldy	35.27	140.12	9.80
19957	Upland-MtBaldy	35.96	140.13	9.80
19958	Upland-MtBaldy	36.08	140.14	9.80
19959	Upland-MtBaldy	35.43	140.15	9.80
19960	Upland-MtBaldy	34.45	140.16	8.55
19961	Upland-MtBaldy	33.36	140.16	8.55
19962	Upland-MtBaldy	32.81	140.17	8.55
19963	Upland-MtBaldy	32.48	140.18	8.55
19964	Upland-MtBaldy	32.63	140.19	8.55
19965	Upland-MtBaldy	31.85	140.20	8.55
19966	Upland-MtBaldy	31.83	140.21	8.55
19967	Upland-MtBaldy	31.83	140.22	8.55
19968	Upland-MtBaldy	31.16	140.23	8.55
19969	Upland-MtBaldy	32.13	140.23	8.55
19970	Upland-MtBaldy	34.17	140.24	8.55
19971	Upland-MtBaldy	35.18	140.25	6.57
19972	Upland-MtBaldy	35.66	140.26	6.57
19973	Upland-MtBaldy	34.58	140.27	6.57
19974	Upland-MtBaldy	33.10	140.28	6.57
19975	Upland-MtBaldy	31.13	140.29	6.57
19976	Upland-MtBaldy	29.77	140.30	6.57
19977	Upland-MtBaldy	28.89	140.31	6.57
19978	Upland-MtBaldy	28.34	140.31	6.57
19979	Upland-MtBaldy	30.13	140.32	6.57
19980	Upland-MtBaldy	32.66	140.33	6.57
19981	Upland-MtBaldy	34.52	140.34	6.57
19982	Upland-MtBaldy	36.13	140.35	7.65
19983	Upland-MtBaldy	37.16	140.36	7.65
19984	Upland-MtBaldy	37.32	140.37	7.65
19985	Upland-MtBaldy	36.31	140.38	7.65
19986	Upland-MtBaldy	35.37	140.39	7.65
19987	Upland-MtBaldy	34.40	140.40	7.65
19988	Upland-MtBaldy	34.12	140.41	7.65
19989	Upland-MtBaldy	33.48	140.42	7.65
19990	Upland-MtBaldy	32.91	140.43	7.65

time (s)	route	speed (mph)	distance (mi)	grade (%)
16069	Upland-MtBaldy	32.51	141.17	10.33
16070	Upland-MtBaldy	32.72	141.18	10.33
16071	Upland-MtBaldy	33.07	141.19	10.33
16072	Upland-MtBaldy	33.99	141.20	10.33
16073	Upland-MtBaldy	35.97	141.21	10.33
16074	Upland-MtBaldy	38.16	141.22	10.33
16075	Upland-MtBaldy	38.97	141.23	10.33
16076	Upland-MtBaldy	38.83	141.24	10.33
16077	Upland-MtBaldy	38.21	141.25	11.71
16078	Upland-MtBaldy	37.61	141.26	11.71
16079	Upland-MtBaldy	37.07	141.27	11.71
16080	Upland-MtBaldy	38.27	141.28	11.71
16081	Upland-MtBaldy	38.35	141.29	11.71
16082	Upland-MtBaldy	38.74	141.30	11.71
16083	Upland-MtBaldy	39.47	141.31	11.71
16084	Upland-MtBaldy	40.50	141.33	11.71
16085	Upland-MtBaldy	40.35	141.34	11.71
16086	Upland-MtBaldy	39.34	141.35	11.71
16087	Upland-MtBaldy	38.01	141.36	13.43
16088	Upland-MtBaldy	36.54	141.37	13.43
16089	Upland-MtBaldy	34.84	141.38	13.43
16090	Upland-MtBaldy	34.33	141.39	13.43
16091	Upland-MtBaldy	34.61	141.40	13.43
16092	Upland-MtBaldy	35.52	141.41	13.43
16093	Upland-MtBaldy	37.07	141.42	13.43
16094	Upland-MtBaldy	40.50	141.43	13.43
16095	Upland-MtBaldy	45.01	141.44	13.43
16096	Upland-MtBaldy	49.03	141.45	6.87
16097	Upland-MtBaldy	52.17	141.47	6.87
16098	Upland-MtBaldy	53.49	141.48	6.87
16099	Upland-MtBaldy	55.04	141.50	6.87
16100	Upland-MtBaldy	56.40	141.51	6.87
16101	Upland-MtBaldy	57.83	141.53	6.87
16102	Upland-MtBaldy	58.28	141.55	6.87
16103	Upland-MtBaldy	58.04	141.56	6.87
16104	Upland-MtBaldy	56.41	141.58	6.87
16105	Upland-MtBaldy	54.72	141.59	6.87
16106	Upland-MtBaldy	52.89	141.61	6.87
16107	Upland-MtBaldy	51.59	141.62	6.87
16108	Upland-MtBaldy	51.40	141.63	6.87
16109	Upland-MtBaldy	51.55	141.65	6.87
16110	Upland-MtBaldy	52.15	141.66	6.87
16111	Upland-MtBaldy	52.46	141.68	6.87
16112	Upland-MtBaldy	52.56	141.69	6.87
16113	Upland-MtBaldy	52.70	141.71	6.87
16114	Upland-MtBaldy	51.71	141.72	6.87
16115	Upland-MtBaldy	50.26	141.73	6.87
16116	Upland-MtBaldy	48.68	141.75	6.87
16117	Upland-MtBaldy	47.46	141.76	10.00
16118	Upland-MtBaldy	46.36	141.77	10.00
16119	Upland-MtBaldy	45.23	141.80	10.00
16120	Upland-MtBaldy	46.49	141.80	10.00
16121	Upland-MtBaldy	46.75	141.81	10.00
16122	Upland-MtBaldy	47.22	141.83	10.00
16123	Upland-MtBaldy	47.56	141.84	10.00
16124	Upland-MtBaldy	47.88	141.85	9.17
16125	Upland-MtBaldy	48.20	141.86	9.17
16126	Upland-MtBaldy	48.74	141.88	9.17
16127	Upland-MtBaldy	49.17	141.89	9.17
16128	Upland-MtBaldy	49.45	141.91	9.17
16129	Upland-MtBaldy	49.19	141.92	9.17
16130	Upland-MtBaldy	48.54	141.93	9.17
16131	Upland-MtBaldy	47.77	141.95	9.17
16132	Upland-MtBaldy	46.50	141.96	8.57
16133	Upland-MtBaldy	45.06	141.97	8.57
16134	Upland-MtBaldy	43.70	141.98	8.57
16135	Upland-MtBaldy	42.39	141.99	8.57
16136	Upland-MtBaldy	40.21	142.01	8.57
16137	Upland-MtBaldy	39.30	142.02	8.57
16138	Upland-MtBaldy	37.75	142.03	8.57
16139	Upland-MtBaldy	35.91	142.04	8.57
16140	Upland-MtBaldy	33.66	142.05	8.57
16141	Upland-MtBaldy	31.67	142.05	6.81
16142	Upland-MtBaldy	30.00	142.06	6.81
16143	Upland-MtBaldy	28.68	142.07	6.81
16144	Upland-MtBaldy	27.91	142.08	6.81
16145	Upland-MtBaldy	27.69	142.09	6.81
16146	Upland-MtBaldy	27.87	142.09	6.81

time (s)	route	speed (mph)	distance (mi)	grade (%)
15991	Upland-MtBaldy	32.61	140.44	7.65
15992	Upland-MtBaldy	32.30	140.45	7.65
15993	Upland-MtBaldy	32.80	140.46	6.94
15994	Upland-MtBaldy	34.62	140.47	6.94
15995	Upland-MtBaldy	36.37	140.48	6.94
15996	Upland-MtBaldy	37.53	140.49	6.94
15997	Upland-MtBaldy	38.24	140.50	6.94
15998	Upland-MtBaldy	38.42	140.51	6.94
15999	Upland-MtBaldy	38.30	140.52	6.94
16000	Upland-MtBaldy	37.77	140.53	6.94
16001	Upland-MtBaldy	37.41	140.54	6.94
16002	Upland-MtBaldy	37.02	140.55	6.94
16003	Upland-MtBaldy	36.30	140.56	10.99
16004	Upland-MtBaldy	35.42	140.57	10.99
16005	Upland-MtBaldy	34.04	140.58	10.99
16006	Upland-MtBaldy	32.44	140.59	10.99
16007	Upland-MtBaldy	31.24	140.59	10.99
16008	Upland-MtBaldy	30.56	140.60	10.99
16009	Upland-MtBaldy	29.48	140.61	10.99
16010	Upland-MtBaldy	30.24	140.62	10.99
16011	Upland-MtBaldy	31.43	140.63	10.99
16012	Upland-MtBaldy	34.30	140.64	10.99
16013	Upland-MtBaldy	35.63	140.65	10.99
16014	Upland-MtBaldy	34.29	140.66	11.20
16015	Upland-MtBaldy	32.17	140.67	11.20
16016	Upland-MtBaldy	31.29	140.67	11.20
16017	Upland-MtBaldy	30.72	140.68	11.20
16018	Upland-MtBaldy	30.66	140.69	11.20
16019	Upland-MtBaldy	32.75	140.70	11.20
16020	Upland-MtBaldy	35.15	140.71	11.20
16021	Upland-MtBaldy	37.03	140.72	11.20
16022	Upland-MtBaldy	38.57	140.73	11.20
16023	Upland-MtBaldy	39.23	140.74	11.20
16024	Upland-MtBaldy	39.60	140.75	9.74
16025	Upland-MtBaldy	39.52	140.76	9.74
16026	Upland-MtBaldy	39.19	140.77	9.74
16027	Upland-MtBaldy	38.62	140.78	9.74
16028	Upland-MtBaldy	37.66	140.80	9.74
16029	Upland-MtBaldy	36.40	140.81	9.74
16030	Upland-MtBaldy	35.09	140.81	9.74
16031	Upland-MtBaldy	33.71	140.82	9.74
16032	Upland-MtBaldy	32.61	140.83	9.74
16033	Upland-MtBaldy	33.01	140.84	9.74
16034	Upland-MtBaldy	33.79	140.85	10.42
16035	Upland-MtBaldy	32.87	140.86	10.42
16036	Upland-MtBaldy	31.57	140.87	10.42
16037	Upland-MtBaldy	29.88	140.88	10.42
16038	Upland-MtBaldy	28.28	140.89	10.42
16039				

time [s]	route	speed [mph]	distance [mi]	grade [%]
16225	Upland-MtBaldy	23.96	142.75	6.71
16226	Upland-MtBaldy	24.09	142.76	6.71
16227	Upland-MtBaldy	24.49	142.77	6.71
16228	Upland-MtBaldy	24.67	142.77	6.71
16229	Upland-MtBaldy	25.71	142.78	6.71
16230	Upland-MtBaldy	27.53	142.79	6.71
16231	Upland-MtBaldy	28.29	142.80	6.71
16232	Upland-MtBaldy	29.78	142.81	6.71
16233	Upland-MtBaldy	29.88	142.81	6.71
16234	Upland-MtBaldy	30.00	142.82	6.71
16235	Upland-MtBaldy	30.64	142.83	6.71
16236	Upland-MtBaldy	31.06	142.84	6.71
16237	Upland-MtBaldy	31.86	142.85	6.71
16238	Upland-MtBaldy	33.10	142.86	6.71
16239	Upland-MtBaldy	34.48	142.87	5.61
16240	Upland-MtBaldy	35.84	142.88	5.61
16241	Upland-MtBaldy	36.50	142.89	5.61
16242	Upland-MtBaldy	35.66	142.90	5.61
16243	Upland-MtBaldy	36.05	142.91	5.61
16244	Upland-MtBaldy	36.23	142.92	5.61
16245	Upland-MtBaldy	36.45	142.93	5.61
16246	Upland-MtBaldy	35.58	142.94	5.61
16247	Upland-MtBaldy	35.26	142.95	5.61
16248	Upland-MtBaldy	35.57	142.96	4.89
16249	Upland-MtBaldy	36.09	142.97	4.89
16250	Upland-MtBaldy	37.09	142.98	4.89
16251	Upland-MtBaldy	37.51	142.99	4.89
16252	Upland-MtBaldy	38.50	143.00	4.89
16253	Upland-MtBaldy	39.39	143.01	4.89
16254	Upland-MtBaldy	40.15	143.02	4.89
16255	Upland-MtBaldy	40.15	143.03	4.89
16256	Upland-MtBaldy	41.36	143.04	4.89
16257	Upland-MtBaldy	42.06	143.05	4.54
16258	Upland-MtBaldy	42.36	143.06	4.54
16259	Upland-MtBaldy	42.48	143.08	4.54
16260	Upland-MtBaldy	42.52	143.09	4.54
16261	Upland-MtBaldy	42.04	143.10	4.54
16262	Upland-MtBaldy	40.05	143.11	4.54
16263	Upland-MtBaldy	38.03	143.12	4.54
16264	Upland-MtBaldy	35.97	143.13	4.54
16265	Upland-MtBaldy	34.50	143.14	4.54
16266	Upland-MtBaldy	33.33	143.15	4.54
16267	Upland-MtBaldy	33.44	143.16	4.27
16268	Upland-MtBaldy	35.16	143.17	4.27
16269	Upland-MtBaldy	34.86	143.18	4.27
16270	Upland-MtBaldy	33.89	143.19	4.27
16271	Upland-MtBaldy	33.78	143.20	4.27
16272	Upland-MtBaldy	34.21	143.21	4.27
16273	Upland-MtBaldy	34.95	143.21	4.27
16274	Upland-MtBaldy	35.88	143.22	4.27
16275	Upland-MtBaldy	36.95	143.23	4.27
16276	Upland-MtBaldy	38.10	143.25	4.27
16277	Upland-MtBaldy	39.04	143.26	7.71
16278	Upland-MtBaldy	39.61	143.27	7.71
16279	Upland-MtBaldy	39.66	143.28	7.71
16280	Upland-MtBaldy	40.04	143.29	7.71
16281	Upland-MtBaldy	40.42	143.30	7.71
16282	Upland-MtBaldy	40.38	143.31	7.71
16283	Upland-MtBaldy	41.93	143.32	7.71
16284	Upland-MtBaldy	42.56	143.33	7.71
16285	Upland-MtBaldy	43.22	143.35	7.71
16286	Upland-MtBaldy	43.64	143.36	8.65
16287	Upland-MtBaldy	43.94	143.37	8.65
16288	Upland-MtBaldy	43.84	143.38	8.65
16289	Upland-MtBaldy	43.64	143.39	8.65
16290	Upland-MtBaldy	43.51	143.41	8.65
16291	Upland-MtBaldy	43.75	143.42	8.65
16292	Upland-MtBaldy	43.94	143.43	8.65
16293	Upland-MtBaldy	44.10	143.44	8.65
16294	Upland-MtBaldy	44.41	143.45	6.64
16295	Upland-MtBaldy	44.75	143.47	6.64
16296	Upland-MtBaldy	44.38	143.48	6.64
16297	Upland-MtBaldy	43.69	143.49	6.64
16298	Upland-MtBaldy	42.58	143.50	6.64
16299	Upland-MtBaldy	41.58	143.51	6.64
16300	Upland-MtBaldy	41.33	143.53	6.64
16301	Upland-MtBaldy	41.03	143.54	6.64
16302	Upland-MtBaldy	41.05	143.55	6.64

time [s]	route	speed [mph]	distance [mi]	grade [%]
16381	Upland-MtBaldy	21.50	144.35	9.57
16382	Upland-MtBaldy	18.28	144.36	9.57
16383	Upland-MtBaldy	14.40	144.36	9.57
16384	Upland-MtBaldy	10.11	144.37	9.57
16385	Upland-MtBaldy	6.88	144.37	9.57
16386	Upland-MtBaldy	6.33	144.37	9.57
16387	Upland-MtBaldy	6.48	144.37	9.57
16388	Upland-MtBaldy	6.33	144.37	9.57
16389	Upland-MtBaldy	6.48	144.37	9.57
16390	Upland-MtBaldy	7.68	144.38	9.57
16391	Upland-MtBaldy	9.89	144.38	9.57
16392	Upland-MtBaldy	11.80	144.38	9.57
16393	Upland-MtBaldy	12.90	144.39	9.57
16394	Upland-MtBaldy	13.20	144.39	9.57
16395	Upland-MtBaldy	13.06	144.39	9.57
16396	Upland-MtBaldy	13.01	144.40	9.57
16397	Upland-MtBaldy	12.94	144.40	9.57
16398	Upland-MtBaldy	12.76	144.40	9.57
16399	Upland-MtBaldy	12.47	144.41	9.57
16400	Upland-MtBaldy	11.94	144.41	9.57
16401	Upland-MtBaldy	11.19	144.41	9.57
16402	Upland-MtBaldy	10.39	144.42	9.57
16403	Upland-MtBaldy	9.59	144.42	9.57
16404	Upland-MtBaldy	8.97	144.42	9.57
16405	Upland-MtBaldy	7.08	144.42	9.57
16406	Upland-MtBaldy	5.80	144.43	9.57
16407	Upland-MtBaldy	5.23	144.43	9.57
16408	Upland-MtBaldy	4.56	144.43	9.57
16409	Upland-MtBaldy	3.05	144.43	9.57
16410	Upland-MtBaldy	0.87	144.43	9.57
16411	Upland-MtBaldy	0.00	144.43	9.57
16412	Upland-MtBaldy	0.00	144.43	9.57
16413	Upland-MtBaldy	0.62	144.43	9.57
16414	Upland-MtBaldy	4.26	144.43	9.57
16415	Upland-MtBaldy	5.07	144.43	9.57
16416	Upland-MtBaldy	4.79	144.43	9.57
16417	Upland-MtBaldy	5.28	144.43	9.57
16418	Upland-MtBaldy	4.58	144.44	9.57
16419	Upland-MtBaldy	2.28	144.44	9.57
16420	Upland-MtBaldy	0.17	144.44	9.57
16421	Upland-MtBaldy	0.00	144.44	9.57
16422	Upland-MtBaldy	0.00	144.44	9.57
16423	Upland-MtBaldy	0.00	144.44	9.57
16424	Upland-MtBaldy	0.00	144.44	9.57
16425	Upland-MtBaldy	0.00	144.44	9.57
16426	Upland-MtBaldy	0.00	144.44	9.57
16427	Upland-MtBaldy	0.00	144.44	9.57
16428	Upland-MtBaldy	0.00	144.44	9.57
16429	Upland-MtBaldy	0.00	144.44	9.57
16430	Upland-MtBaldy	0.00	144.44	9.57
16431	Upland-MtBaldy	0.00	144.44	9.57
16432	Upland-MtBaldy	0.00	144.44	9.57
16433	Upland-MtBaldy	0.00	144.44	9.57
16434	Upland-MtBaldy	0.00	144.44	9.57
16435	Upland-MtBaldy	0.00	144.44	9.57
16436	Upland-MtBaldy	0.00	144.44	9.57
16437	Upland-MtBaldy	0.00	144.44	9.57
16438	Upland-MtBaldy	0.00	144.44	9.57
16439	Upland-MtBaldy	0.00	144.44	9.57
16440	Upland-MtBaldy	0.00	144.44	9.57
16441	Upland-MtBaldy	0.00	144.44	9.57
16442	Upland-MtBaldy	0.00	144.44	9.57
16443	Upland-MtBaldy	0.00	144.44	9.57
16444	Upland-MtBaldy	0.00	144.44	9.57
16445	Upland-MtBaldy	0.00	144.44	9.57
16446	Upland-MtBaldy	0.00	144.44	9.57
16447	Upland-MtBaldy	0.00	144.44	9.57
16448	Upland-MtBaldy	0.00	144.44	9.57
16449	Upland-MtBaldy	0.00	144.44	9.57
16450	Upland-MtBaldy	0.00	144.44	9.57
16451	Upland-MtBaldy	0.00	144.44	9.57
16452	Upland-MtBaldy	0.00	144.44	9.57
16453	Upland-MtBaldy	0.00	144.44	9.57
16454	Upland-MtBaldy	0.00	144.44	9.57
16455	Upland-MtBaldy	0.00	144.44	9.57
16456	Upland-MtBaldy	0.00	144.44	9.57
16457	Upland-MtBaldy	0.00	144.44	9.57
16458	Upland-MtBaldy	0.00	144.44	9.57

time [s]	route	speed [mph]	distance [mi]	grade [%]
16303	Upland-MtBaldy	41.18	143.56	9.59
16304	Upland-MtBaldy	41.20	143.57	9.59
16305	Upland-MtBaldy	40.74	143.58	9.59
16306	Upland-MtBaldy	40.94	143.59	9.59
16307	Upland-MtBaldy	41.34	143.60	9.59
16308	Upland-MtBaldy	41.74	143.62	9.59
16309	Upland-MtBaldy	42.01	143.63	9.59
16310	Upland-MtBaldy	42.10	143.64	9.59
16311	Upland-MtBaldy	42.05	143.65	8.97
16312	Upland-MtBaldy	42.14	143.66	8.97
16313	Upland-MtBaldy	42.35	143.67	8.97
16314	Upland-MtBaldy	42.66	143.69	8.97
16315	Upland-MtBaldy	43.49	143.70	8.97
16316	Upland-MtBaldy	44.26	143.71	8.97
16317	Upland-MtBaldy	45.09	143.72	8.97
16318	Upland-MtBaldy	45.63	143.74	8.97
16319	Upland-MtBaldy	45.60	143.75	8.97
16320	Upland-MtBaldy	45.85	143.76	8.56
16321	Upland-MtBaldy	45.66	143.77	8.56
16322	Upland-MtBaldy	45.18	143.79	8.56
16323	Upland-MtBaldy	44.66	143.80	8.56
16324	Upland-MtBaldy	43.59	143.81	8.56
16325	Upland-MtBaldy	42.13	143.82	8.56
16326	Upland-MtBaldy	42.66	143.83	8.56
16327	Upland-MtBaldy	38.08	143.84	8.56
16328	Upland-MtBaldy	36.47	143.85	8.42
16329	Upland-MtBaldy	35.08	143.86	8.42
16330	Upland-MtBaldy	34.45	143.87	8.42
16331	Upland-MtBaldy	34.40	143.88	8.42
16332	Upland-MtBaldy	34.85	143.89	8.42
16333	Upland-MtBaldy	35.59	143.90	8.42
16334	Upland-MtBaldy	36.79	143.91	8.42
16335	Upland-MtBaldy	37.49	143.92	8.42
16336	Upland-MtBaldy	37.98	143.93	8.42
16337	Upland-MtBaldy	38.17	143.94	8.42
16338	Upland-MtBaldy	38.61	143.95	8.99
16339	Upland-MtBaldy	39.30	143.96	8.99
16340	Upland-MtBaldy	39.96	143.97	8.99
16341	Upland-MtBaldy	40.72	143.99	8.99
16342	Upland-MtBaldy	41.65	144.00	8.99
16343	Upland-MtBaldy	42.66	144.01	8.99
16344	Upland-MtBaldy	43.32	144.02	8.99
16345	Upland-MtBaldy	43.13	144.03	8.99
16346	Upland-MtBaldy	41.91	144.04	8.99
16347	Upland-MtBaldy	40.72	144.07	7.33
16348	Upland-MtBaldy	39.76	144.07	7.33
16349	Upland-MtBaldy	39.44	144.08	7.33
16350	Upland-MtBaldy	39.89	144.09	7.33
16351	Upland-MtBaldy	40.42	144.10	7.33
16352	Upland-MtBaldy	41.07		

time [s]	route	speed [mph]	distance [mi]	grade [%]
16537	IdlieMBaldy	0.00	144.44	9.57
16538	IdlieMBaldy	0.00	144.44	9.57
16539	IdlieMBaldy	0.00	144.44	9.57
16540	IdlieMBaldy	0.00	144.44	9.57
16541	IdlieMBaldy	0.00	144.44	9.57
16542	IdlieMBaldy	0.00	144.44	9.57
16543	IdlieMBaldy	0.00	144.44	9.57
16544	IdlieMBaldy	0.00	144.44	9.57
16545	IdlieMBaldy	0.00	144.44	9.57
16546	IdlieMBaldy	0.00	144.44	9.57
16547	IdlieMBaldy	0.00	144.44	9.57
16548	IdlieMBaldy	0.00	144.44	9.57
16549	IdlieMBaldy	0.00	144.44	9.57
16550	IdlieMBaldy	0.00	144.44	9.57
16551	IdlieMBaldy	0.00	144.44	9.57
16552	IdlieMBaldy	0.00	144.44	9.57
16553	IdlieMBaldy	0.00	144.44	9.57
16554	IdlieMBaldy	0.00	144.44	9.57
16555	IdlieMBaldy	0.00	144.44	9.57
16556	IdlieMBaldy	0.00	144.44	9.57
16557	IdlieMBaldy	0.00	144.44	9.57
16558	IdlieMBaldy	0.00	144.44	9.57
16559	IdlieMBaldy	0.00	144.44	9.57
16560	IdlieMBaldy	0.00	144.44	9.57
16561	IdlieMBaldy	0.00	144.44	9.57
16562	IdlieMBaldy	0.00	144.44	9.57
16563	IdlieMBaldy	0.00	144.44	9.57
16564	IdlieMBaldy	0.00	144.44	9.57
16565	IdlieMBaldy	0.00	144.44	9.57
16566	IdlieMBaldy	0.00	144.44	9.57
16567	IdlieMBaldy	0.00	144.44	9.57
16568	IdlieMBaldy	0.00	144.44	9.57
16569	IdlieMBaldy	0.00	144.44	9.57
16570	IdlieMBaldy	0.00	144.44	9.57
16571	IdlieMBaldy	0.00	144.44	9.57
16572	IdlieMBaldy	0.00	144.44	9.57
16573	IdlieMBaldy	0.00	144.44	9.57
16574	IdlieMBaldy	0.00	144.44	9.57
16575	IdlieMBaldy	0.00	144.44	9.57
16576	IdlieMBaldy	0.00	144.44	9.57
16577	IdlieMBaldy	0.00	144.44	9.57
16578	IdlieMBaldy	0.00	144.44	9.57
16579	IdlieMBaldy	0.00	144.44	9.57
16580	IdlieMBaldy	0.00	144.44	9.57
16581	IdlieMBaldy	0.00	144.44	9.57
16582	IdlieMBaldy	0.00	144.44	9.57
16583	IdlieMBaldy	0.00	144.44	9.57
16584	IdlieMBaldy	0.00	144.44	9.57
16585	IdlieMBaldy	0.00	144.44	9.57
16586	IdlieMBaldy	0.00	144.44	9.57
16587	IdlieMBaldy	0.00	144.44	9.57
16588	IdlieMBaldy	0.00	144.44	9.57
16589	IdlieMBaldy	0.00	144.44	9.57
16590	IdlieMBaldy	0.00	144.44	9.57
16591	IdlieMBaldy	0.00	144.44	9.57
16592	IdlieMBaldy	0.00	144.44	9.57
16593	IdlieMBaldy	0.00	144.44	9.57
16594	IdlieMBaldy	0.00	144.44	9.57
16595	IdlieMBaldy	0.00	144.44	9.57
16596	IdlieMBaldy	0.00	144.44	9.57
16597	IdlieMBaldy	0.00	144.44	9.57
16598	IdlieMBaldy	0.00	144.44	9.57
16599	IdlieMBaldy	0.00	144.44	9.57
16600	IdlieMBaldy	0.00	144.44	9.57
16601	IdlieMBaldy	0.00	144.44	9.57
16602	IdlieMBaldy	0.00	144.44	9.57
16603	IdlieMBaldy	0.00	144.44	9.57
16604	IdlieMBaldy	0.00	144.44	9.57
16605	IdlieMBaldy	0.00	144.44	9.57
16606	IdlieMBaldy	0.00	144.44	9.57
16607	IdlieMBaldy	0.00	144.44	9.57
16608	MtBaldy-Upland	0.00	144.44	9.57
16609	MtBaldy-Upland	0.00	144.44	9.57
16610	MtBaldy-Upland	0.00	144.44	9.57
16611	MtBaldy-Upland	0.00	144.44	9.57
16612	MtBaldy-Upland	0.00	144.44	9.57
16613	MtBaldy-Upland	0.00	144.44	9.57
16614	MtBaldy-Upland	0.00	144.44	9.57

time [s]	route	speed [mph]	distance [mi]	grade [%]
16693	MtBaldy-Upland	42.39	145.10	-7.36
16694	MtBaldy-Upland	41.46	145.11	-7.36
16695	MtBaldy-Upland	40.52	145.12	-7.36
16696	MtBaldy-Upland	40.06	145.13	-7.36
16697	MtBaldy-Upland	40.48	145.15	-7.36
16698	MtBaldy-Upland	39.90	145.16	-7.20
16699	MtBaldy-Upland	39.02	145.17	-7.20
16700	MtBaldy-Upland	37.74	145.18	-7.20
16701	MtBaldy-Upland	36.57	145.19	-7.20
16702	MtBaldy-Upland	35.84	145.20	-7.20
16703	MtBaldy-Upland	35.11	145.21	-7.20
16704	MtBaldy-Upland	35.17	145.22	-7.20
16705	MtBaldy-Upland	35.68	145.23	-7.20
16706	MtBaldy-Upland	36.35	145.24	-7.20
16707	MtBaldy-Upland	37.09	145.25	-7.20
16708	MtBaldy-Upland	38.21	145.26	-10.29
16709	MtBaldy-Upland	39.45	145.27	-10.29
16710	MtBaldy-Upland	40.58	145.28	-10.29
16711	MtBaldy-Upland	40.46	145.29	-10.29
16712	MtBaldy-Upland	39.91	145.30	-10.29
16713	MtBaldy-Upland	39.19	145.31	-10.29
16714	MtBaldy-Upland	38.76	145.32	-10.29
16715	MtBaldy-Upland	38.59	145.33	-10.29
16716	MtBaldy-Upland	39.34	145.34	-10.29
16717	MtBaldy-Upland	40.20	145.35	-7.90
16718	MtBaldy-Upland	40.61	145.37	-7.90
16719	MtBaldy-Upland	40.28	145.38	-7.90
16720	MtBaldy-Upland	39.91	145.39	-7.90
16721	MtBaldy-Upland	39.69	145.40	-7.90
16722	MtBaldy-Upland	39.42	145.41	-7.90
16723	MtBaldy-Upland	38.82	145.42	-7.90
16724	MtBaldy-Upland	38.14	145.43	-7.90
16725	MtBaldy-Upland	37.18	145.44	-7.90
16726	MtBaldy-Upland	35.98	145.45	-8.06
16727	MtBaldy-Upland	34.39	145.46	-8.06
16728	MtBaldy-Upland	32.95	145.47	-8.06
16729	MtBaldy-Upland	32.83	145.48	-8.06
16730	MtBaldy-Upland	32.83	145.49	-8.06
16731	MtBaldy-Upland	31.77	145.50	-8.06
16732	MtBaldy-Upland	31.01	145.50	-8.06
16733	MtBaldy-Upland	30.39	145.51	-8.06
16734	MtBaldy-Upland	29.81	145.52	-8.06
16735	MtBaldy-Upland	28.82	145.53	-8.06
16736	MtBaldy-Upland	27.49	145.54	-8.06
16737	MtBaldy-Upland	26.16	145.54	-8.06
16738	MtBaldy-Upland	25.05	145.55	-9.40
16739	MtBaldy-Upland	24.41	145.56	-9.40
16740	MtBaldy-Upland	24.14	145.56	-9.40
16741	MtBaldy-Upland	25.11	145.57	-9.40
16742	MtBaldy-Upland	24.60	145.58	-9.40
16743	MtBaldy-Upland	24.24	145.58	-9.40
16744	MtBaldy-Upland	23.43	145.59	-9.40
16745	MtBaldy-Upland	22.26	145.60	-9.40
16746	MtBaldy-Upland	21.77	145.60	-9.40
16747	MtBaldy-Upland	23.04	145.61	-9.40
16748	MtBaldy-Upland	25.21	145.62	-9.40
16749	MtBaldy-Upland	28.08	145.62	-9.40
16750	MtBaldy-Upland	31.10	145.63	-9.40
16751	MtBaldy-Upland	34.02	145.64	-9.40
16752	MtBaldy-Upland	36.79	145.65	-8.18
16753	MtBaldy-Upland	39.23	145.66	-8.18
16754	MtBaldy-Upland	41.78	145.67	-8.18
16755	MtBaldy-Upland	43.39	145.69	-8.18
16756	MtBaldy-Upland	43.81	145.70	-8.18
16757	MtBaldy-Upland	44.63	145.71	-8.18
16758	MtBaldy-Upland	45.43	145.72	-8.18
16759	MtBaldy-Upland	46.12	145.74	-8.18
16760	MtBaldy-Upland	46.75	145.75	-8.18
16761	MtBaldy-Upland	47.62	145.76	-4.68
16762	MtBaldy-Upland	47.43	145.78	-4.68
16763	MtBaldy-Upland	45.28	145.79	-4.68
16764	MtBaldy-Upland	42.74	145.80	-4.68
16765	MtBaldy-Upland	40.71	145.81	-4.68
16766	MtBaldy-Upland	38.41	145.82	-4.68
16767	MtBaldy-Upland	36.01	145.83	-4.68
16768	MtBaldy-Upland	35.76	145.84	-4.68
16769	MtBaldy-Upland	35.27	145.85	-8.23
16770	MtBaldy-Upland	34.87	145.86	-8.23

time [s]	route	speed [mph]	distance [mi]	grade [%]
16615	MtBaldy-Upland	1.47	144.44	9.57
16616	MtBaldy-Upland	3.59	144.44	9.57
16617	MtBaldy-Upland	6.94	144.44	9.57
16618	MtBaldy-Upland	8.91	144.44	9.57
16619	MtBaldy-Upland	9.73	144.45	9.57
16620	MtBaldy-Upland	9.86	144.45	9.57
16621	MtBaldy-Upland	9.61	144.45	9.57
16622	MtBaldy-Upland	9.85	144.45	7.59
16623	MtBaldy-Upland	10.94	144.46	7.59
16624	MtBaldy-Upland	12.47	144.46	7.59
16625	MtBaldy-Upland	14.27	144.46	7.59
16626	MtBaldy-Upland	16.22	144.47	7.59
16627	MtBaldy-Upland	18.25	144.47	7.59
16628	MtBaldy-Upland	19.38	144.48	7.59
16629	MtBaldy-Upland	19.55	144.48	7.59
16630	MtBaldy-Upland	19.17	144.49	7.59
16631	MtBaldy-Upland	18.01	144.49	7.59
16632	MtBaldy-Upland	16.59	144.50	7.59
16633	MtBaldy-Upland	15.18	144.50	7.59
16634	MtBaldy-Upland	13.70	144.51	7.59
16635	MtBaldy-Upland	6.54	144.52	7.59
16636	MtBaldy-Upland	9.92	144.51	7.59
16637	MtBaldy-Upland	7.59	144.51	7.59
16638	MtBaldy-Upland	6.54	144.52	7.59
16639	MtBaldy-Upland	8.72	144.52	7.59
16640	MtBaldy-Upland	12.87	144.52	7.59
16641	MtBaldy-Upland	18.83	144.53	7.59
16642	MtBaldy-Upland	26.54	144.53	7.59
16643	MtBaldy-Upland	34.14	144.54	7.59
16644	MtBaldy-Upland	39.87	144.56	10.00
16645	MtBaldy-Upland	44.49	144.57	10.00
16646	MtBaldy-Upland	46.29	144.58	10.00
16647	MtBaldy-Upland	46.40	144.59	10.00
16648	MtBaldy-Upland	45.74	144.61	10.00
16649	MtBaldy-Upland	44.52	144.62	10.00
16650	MtBaldy-Upland	45.16	144.63	10.00
16651	MtBaldy-Upland	43.58	144.64	10.00
16652	MtBaldy-Upland	42.19	144.65	-15.76
16653	MtBaldy-Upland	40.93	144.67	-15.76
16654	MtBaldy-Upland	39.63	144.68	-15.76
16655	MtBaldy-Upland	38.51	144.69	-15.76
16656	MtBaldy-Upland	37.38	144.70	-15.76
16657	MtBaldy-Upland	36.60	144.71	-15.76
16658	MtBaldy-Upland	37.57	144.72	-15.76
16659	MtBaldy-Upland	38.71	144.73	-15.76
16660	MtBaldy-Upland	39.94	144.74	-15.76
16661	MtBaldy-Upland	40.92	144.75	-10.09
16662	MtBaldy-Upland	40.92	144.76	-10.09
16663	MtBaldy-Upland	40.41	144.77	-10.09
16664	MtBaldy-Upland	39.98	144.78	-10.09
16665	MtBaldy-Upland	39.58	144.79	-10.09
16666	MtBaldy-Upland	39.06	144.80	-10.09
16667	MtBaldy-Upland	38.44	144.82	-10.09
16668	MtBaldy-Upland	37.61	144.83	-10.09
16669	MtBaldy-Upland	37.69	144.84	-10.09
166				

time (s)	route	speed (mph)	distance (mi)	grade (%)
16849	MtBaldy-Upland	26.00	146.37	-6.45
16850	MtBaldy-Upland	26.57	146.37	-6.45
16851	MtBaldy-Upland	27.01	146.38	-6.45
16852	MtBaldy-Upland	26.63	146.39	-6.45
16853	MtBaldy-Upland	25.92	146.40	-6.45
16854	MtBaldy-Upland	25.04	146.40	-6.45
16855	MtBaldy-Upland	24.11	146.41	-6.45
16856	MtBaldy-Upland	24.30	146.42	-6.45
16857	MtBaldy-Upland	24.84	146.42	-6.45
16858	MtBaldy-Upland	25.49	146.43	-6.45
16859	MtBaldy-Upland	25.96	146.44	-6.45
16860	MtBaldy-Upland	26.01	146.45	-6.45
16861	MtBaldy-Upland	25.56	146.45	-6.45
16862	MtBaldy-Upland	25.65	146.46	-6.45
16863	MtBaldy-Upland	26.05	146.47	-6.45
16864	MtBaldy-Upland	26.41	146.47	-6.45
16865	MtBaldy-Upland	26.80	146.48	-6.45
16866	MtBaldy-Upland	26.93	146.49	-6.45
16867	MtBaldy-Upland	27.01	146.50	-6.45
16868	MtBaldy-Upland	27.18	146.50	-6.45
16869	MtBaldy-Upland	27.53	146.51	-6.45
16870	MtBaldy-Upland	27.96	146.52	-6.45
16871	MtBaldy-Upland	27.84	146.53	-6.45
16872	MtBaldy-Upland	28.22	146.53	-6.45
16873	MtBaldy-Upland	27.74	146.54	-6.45
16874	MtBaldy-Upland	27.00	146.55	-6.45
16875	MtBaldy-Upland	25.56	146.56	-9.13
16876	MtBaldy-Upland	24.17	146.56	-9.13
16877	MtBaldy-Upland	24.52	146.57	-9.13
16878	MtBaldy-Upland	24.44	146.58	-9.13
16879	MtBaldy-Upland	24.27	146.58	-9.13
16880	MtBaldy-Upland	24.13	146.59	-9.13
16881	MtBaldy-Upland	24.05	146.60	-9.13
16882	MtBaldy-Upland	24.08	146.60	-9.13
16883	MtBaldy-Upland	24.18	146.61	-9.13
16884	MtBaldy-Upland	23.92	146.62	-9.13
16885	MtBaldy-Upland	23.33	146.62	-9.13
16886	MtBaldy-Upland	23.70	146.63	-9.13
16887	MtBaldy-Upland	25.50	146.64	-9.13
16888	MtBaldy-Upland	27.11	146.64	-9.13
16889	MtBaldy-Upland	28.41	146.65	-9.96
16890	MtBaldy-Upland	29.93	146.66	-9.96
16891	MtBaldy-Upland	31.72	146.67	-9.96
16892	MtBaldy-Upland	32.93	146.68	-9.96
16893	MtBaldy-Upland	33.90	146.69	-9.96
16894	MtBaldy-Upland	34.41	146.70	-9.96
16895	MtBaldy-Upland	34.75	146.71	-9.96
16896	MtBaldy-Upland	34.88	146.72	-9.96
16897	MtBaldy-Upland	34.76	146.72	-9.96
16898	MtBaldy-Upland	34.89	146.73	-9.96
16899	MtBaldy-Upland	35.87	146.74	-9.96
16900	MtBaldy-Upland	36.62	146.75	-9.50
16901	MtBaldy-Upland	37.43	146.76	-9.50
16902	MtBaldy-Upland	35.80	146.77	-3.50
16903	MtBaldy-Upland	33.75	146.78	-5.50
16904	MtBaldy-Upland	32.08	146.79	-3.50
16905	MtBaldy-Upland	31.71	146.80	-3.50
16906	MtBaldy-Upland	32.29	146.81	-3.50
16907	MtBaldy-Upland	32.71	146.82	-3.50
16908	MtBaldy-Upland	33.29	146.83	-3.50
16909	MtBaldy-Upland	33.76	146.84	-3.50
16910	MtBaldy-Upland	34.23	146.85	-3.50
16911	MtBaldy-Upland	34.72	146.86	-5.16
16912	MtBaldy-Upland	35.08	146.87	-5.16
16913	MtBaldy-Upland	35.54	146.88	-5.16
16914	MtBaldy-Upland	35.94	146.89	-5.16
16915	MtBaldy-Upland	35.97	146.90	-5.16
16916	MtBaldy-Upland	34.64	146.91	-5.16
16917	MtBaldy-Upland	32.85	146.91	-5.16
16918	MtBaldy-Upland	31.49	146.92	-5.16
16919	MtBaldy-Upland	31.06	146.93	-5.16
16920	MtBaldy-Upland	31.53	146.94	-5.16
16921	MtBaldy-Upland	31.89	146.95	-5.16
16922	MtBaldy-Upland	32.20	146.96	-10.39
16923	MtBaldy-Upland	32.42	146.97	-10.39
16924	MtBaldy-Upland	32.94	146.98	-10.39
16925	MtBaldy-Upland	33.36	146.98	-10.39
16926	MtBaldy-Upland	33.60	146.99	-10.39

time (s)	route	speed (mph)	distance (mi)	grade (%)
17005	MtBaldy-Upland	28.62	147.72	-3.12
17006	MtBaldy-Upland	28.03	147.73	-3.12
17007	MtBaldy-Upland	28.09	147.73	-3.12
17008	MtBaldy-Upland	28.18	147.74	-3.12
17009	MtBaldy-Upland	28.22	147.75	-3.12
17010	MtBaldy-Upland	28.08	147.76	-4.85
17011	MtBaldy-Upland	28.54	147.77	-4.85
17012	MtBaldy-Upland	30.23	147.77	-4.85
17013	MtBaldy-Upland	30.64	147.78	-4.85
17014	MtBaldy-Upland	32.45	147.79	-4.85
17015	MtBaldy-Upland	32.73	147.80	-4.85
17016	MtBaldy-Upland	32.86	147.81	-4.85
17017	MtBaldy-Upland	33.52	147.82	-4.85
17018	MtBaldy-Upland	33.32	147.83	-4.85
17019	MtBaldy-Upland	32.92	147.84	-4.85
17020	MtBaldy-Upland	32.51	147.85	-4.85
17021	MtBaldy-Upland	32.60	147.85	-4.71
17022	MtBaldy-Upland	32.88	147.86	-4.71
17023	MtBaldy-Upland	33.07	147.87	-4.71
17024	MtBaldy-Upland	32.64	147.88	-4.71
17025	MtBaldy-Upland	32.41	147.89	-4.71
17026	MtBaldy-Upland	32.80	147.90	-4.71
17027	MtBaldy-Upland	32.92	147.91	-4.71
17028	MtBaldy-Upland	32.65	147.92	-4.71
17029	MtBaldy-Upland	32.27	147.93	-4.71
17030	MtBaldy-Upland	32.25	147.94	-4.71
17031	MtBaldy-Upland	32.36	147.94	-4.71
17032	MtBaldy-Upland	32.43	147.95	-10.84
17033	MtBaldy-Upland	32.35	147.96	-10.84
17034	MtBaldy-Upland	32.24	147.97	-10.84
17035	MtBaldy-Upland	32.57	147.98	-10.84
17036	MtBaldy-Upland	35.04	147.99	-10.84
17037	MtBaldy-Upland	38.44	148.00	-10.84
17038	MtBaldy-Upland	40.84	148.01	-10.84
17039	MtBaldy-Upland	39.83	148.02	-10.84
17040	MtBaldy-Upland	36.37	148.03	-10.84
17041	MtBaldy-Upland	33.52	148.04	-10.84
17042	MtBaldy-Upland	31.21	148.05	-10.84
17043	MtBaldy-Upland	30.07	148.06	-11.36
17044	MtBaldy-Upland	29.82	148.07	-11.36
17045	MtBaldy-Upland	30.54	148.07	-11.36
17046	MtBaldy-Upland	31.21	148.08	-11.36
17047	MtBaldy-Upland	31.38	148.09	-11.36
17048	MtBaldy-Upland	30.94	148.10	-11.36
17049	MtBaldy-Upland	30.43	148.11	-11.36
17050	MtBaldy-Upland	30.23	148.12	-11.36
17051	MtBaldy-Upland	30.74	148.13	-11.36
17052	MtBaldy-Upland	30.13	148.13	-11.36
17053	MtBaldy-Upland	28.97	148.14	-11.36
17054	MtBaldy-Upland	27.40	148.15	-11.36
17055	MtBaldy-Upland	26.69	148.16	-11.36
17056	MtBaldy-Upland	27.25	148.16	-10.44
17057	MtBaldy-Upland	28.14	148.17	-10.44
17058	MtBaldy-Upland	29.47	148.18	-10.44
17059	MtBaldy-Upland	31.27	148.19	-10.44
17060	MtBaldy-Upland	32.07	148.20	-10.44
17061	MtBaldy-Upland	32.71	148.21	-10.44
17062	MtBaldy-Upland	33.38	148.22	-10.44
17063	MtBaldy-Upland	33.43	148.22	-10.44
17064	MtBaldy-Upland	32.75	148.23	-10.44
17065	MtBaldy-Upland	32.03	148.24	-10.44
17066	MtBaldy-Upland	31.08	148.25	-11.67
17067	MtBaldy-Upland	30.41	148.26	-11.67
17068	MtBaldy-Upland	30.99	148.27	-11.67
17069	MtBaldy-Upland	31.90	148.28	-11.67
17070	MtBaldy-Upland	33.42	148.29	-11.67
17071	MtBaldy-Upland	34.27	148.30	-11.67
17072	MtBaldy-Upland	34.23	148.31	-11.67
17073	MtBaldy-Upland	34.54	148.31	-11.67
17074	MtBaldy-Upland	33.03	148.32	-11.67
17075	MtBaldy-Upland	31.42	148.33	-11.67
17076	MtBaldy-Upland	29.81	148.34	-11.67
17077	MtBaldy-Upland	28.20	148.35	-11.67
17078	MtBaldy-Upland	27.52	148.36	-9.20
17079	MtBaldy-Upland	28.13	148.36	-9.20
17080	MtBaldy-Upland	29.87	148.37	-9.20
17081	MtBaldy-Upland	31.16	148.38	-9.20
17082	MtBaldy-Upland	31.63	148.39	-9.20

time (s)	route	speed (mph)	distance (mi)	grade (%)
16927	MtBaldy-Upland	33.97	147.00	-10.39
16928	MtBaldy-Upland	34.36	147.01	-10.39
16929	MtBaldy-Upland	34.57	147.02	-10.39
16930	MtBaldy-Upland	34.85	147.03	-10.39
16931	MtBaldy-Upland	34.44	147.04	-10.39
16932	MtBaldy-Upland	33.68	147.05	-9.36
16933	MtBaldy-Upland	33.08	147.06	-9.36
16934	MtBaldy-Upland	33.27	147.07	-9.36
16935	MtBaldy-Upland	33.56	147.08	-9.36
16936	MtBaldy-Upland	33.95	147.09	-9.36
16937	MtBaldy-Upland	34.33	147.10	-9.36
16938	MtBaldy-Upland	34.57	147.11	-9.36
16939	MtBaldy-Upland	34.90	147.12	-9.36
16940	MtBaldy-Upland	35.26	147.13	-9.36
16941	MtBaldy-Upland	34.88	147.14	-9.36
16942	MtBaldy-Upland	34.14	147.14	-9.36
16943	MtBaldy-Upland	33.29	147.15	-8.40
16944	MtBaldy-Upland	32.46	147.16	-8.40
16945	MtBaldy-Upland	32.65	147.17	-8.40
16946	MtBaldy-Upland	33.02	147.18	-8.40
16947	MtBaldy-Upland	33.44	147.19	-8.40
16948	MtBaldy-Upland	33.74	147.20	-8.40
16949	MtBaldy-Upland	34.32	147.21	-8.40
16950	MtBaldy-Upland	34.79	147.22	-8.40
16951	MtBaldy-Upland	35.38	147.23	-8.40
16952	MtBaldy-Upland	35.89	147.24	-8.40
16953	MtBaldy-Upland	36.35	147.25	-8.40
16954	MtBaldy-Upland	36.79	147.26	-8.40
16955	MtBaldy-Upland	37.05	147.27	-10.05
16956	MtBaldy-Upland	37.86	147.28	-10.05
16957	MtBaldy-Upland	38.60	147.29	-10.05
16958	MtBaldy-Upland	38.01	147.30	-10.05
16959	MtBaldy-Upland	36.78	147.31	-10.05
16960	MtBaldy-Upland	34.99	147.32	-10.05
16961	MtBaldy-Upland	34.27	147.33	-10.05
16962	MtBaldy-Upland	34.82	147.34	-10.05
16963	MtBaldy-Upland	35.31	147.35	-10.05
16964	MtBaldy-Upland	35.26	147.36	-7.99
16965	MtBaldy-Upland	35.12	147.37	-7.99
16966	MtBaldy-Upland	34.75	147.38	-7.99
16967	MtBaldy-Upland	34.16	147.39	-7.99
16968	MtBaldy-Upland	33.29	147.40	-7.99
16969	MtBaldy-Upland	32.24	147.40	-7.99
16970	MtBaldy-Upland	31.88	147.41	-7.99
16971	MtBaldy-Upland	32.32	147.42	-7.99
16972	MtBaldy-Upland	32.92	147.43	-7.99
16973	MtBaldy-Upland	33.84	147.44	-7.99
16974	MtBaldy-Upland	34.36	147.45	-7.99
16975	MtBaldy-Upland	33.36	147.46	-9.83
16976	MtBaldy-Upland	32.10	147.47	-9.83
16977	MtBaldy-Upland	30.99	147.48	-9.83
16978	MtBaldy-Upland	3		

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time (s)	route	speed (mph)	distance (mi)	grade (%)
17164	MTBaldy-Upgrade	39.02	149.12	-9.33
17165	MTBaldy-Upgrade	37.95	149.13	-9.33
17166	MTBaldy-Upgrade	36.22	149.14	-9.33
17167	MTBaldy-Upgrade	35.24	149.15	-9.33
17168	MTBaldy-Upgrade	35.18	149.16	-10.15
17169	MTBaldy-Upgrade	34.72	149.17	-10.15
17170	MTBaldy-Upgrade	35.11	149.18	-10.15
17171	MTBaldy-Upgrade	35.23	149.19	-10.15
17172	MTBaldy-Upgrade	35.05	149.20	-10.15
17173	MTBaldy-Upgrade	34.81	149.21	-10.15
17174	MTBaldy-Upgrade	34.45	149.22	-10.15
17175	MTBaldy-Upgrade	34.50	149.23	-10.15
17176	MTBaldy-Upgrade	35.45	149.23	-10.15
17177	MTBaldy-Upgrade	35.17	149.24	-10.15
17178	MTBaldy-Upgrade	34.77	149.25	-8.33
17179	MTBaldy-Upgrade	34.19	149.26	-8.33
17180	MTBaldy-Upgrade	33.59	149.27	-8.33
17181	MTBaldy-Upgrade	32.60	149.28	-8.33
17182	MTBaldy-Upgrade	31.42	149.29	-8.33
17183	MTBaldy-Upgrade	31.23	149.30	-8.33
17184	MTBaldy-Upgrade	32.24	149.31	-8.33
17185	MTBaldy-Upgrade	33.38	149.32	-8.33
17186	MTBaldy-Upgrade	33.68	149.33	-8.33
17187	MTBaldy-Upgrade	32.81	149.34	-8.33
17188	MTBaldy-Upgrade	33.33	149.34	-8.33
17189	MTBaldy-Upgrade	34.36	149.35	-9.40
17190	MTBaldy-Upgrade	35.66	149.36	-9.40
17191	MTBaldy-Upgrade	37.06	149.37	-9.40
17192	MTBaldy-Upgrade	37.56	149.38	-9.40
17193	MTBaldy-Upgrade	36.70	149.39	-9.40
17194	MTBaldy-Upgrade	36.40	149.40	-9.40
17195	MTBaldy-Upgrade	36.33	149.41	-9.40
17196	MTBaldy-Upgrade	35.38	149.42	-9.40
17197	MTBaldy-Upgrade	34.81	149.43	-9.40
17198	MTBaldy-Upgrade	33.76	149.44	-9.40
17199	MTBaldy-Upgrade	33.75	149.45	-6.16
17200	MTBaldy-Upgrade	33.33	149.46	-6.16
17201	MTBaldy-Upgrade	32.25	149.47	-6.16
17202	MTBaldy-Upgrade	31.75	149.48	-6.16
17203	MTBaldy-Upgrade	31.91	149.49	-6.16
17204	MTBaldy-Upgrade	32.23	149.50	-6.16
17205	MTBaldy-Upgrade	32.39	149.51	-6.16
17206	MTBaldy-Upgrade	32.65	149.51	-6.16
17207	MTBaldy-Upgrade	33.34	149.52	-6.16
17208	MTBaldy-Upgrade	33.69	149.53	-6.16
17209	MTBaldy-Upgrade	34.95	149.54	-6.16
17210	MTBaldy-Upgrade	35.37	149.55	-3.26
17211	MTBaldy-Upgrade	36.40	149.56	-3.26
17212	MTBaldy-Upgrade	36.47	149.57	-3.26
17213	MTBaldy-Upgrade	36.50	149.58	-3.26
17214	MTBaldy-Upgrade	35.18	149.59	-3.26
17215	MTBaldy-Upgrade	33.17	149.60	-3.26
17216	MTBaldy-Upgrade	32.68	149.61	-3.26
17217	MTBaldy-Upgrade	33.40	149.62	-3.26
17218	MTBaldy-Upgrade	34.36	149.63	-3.26
17219	MTBaldy-Upgrade	35.53	149.64	-3.26
17220	MTBaldy-Upgrade	36.66	149.65	-3.26
17221	MTBaldy-Upgrade	36.18	149.66	-2.45
17222	MTBaldy-Upgrade	36.18	149.67	-2.45
17223	MTBaldy-Upgrade	36.83	149.68	-2.45
17224	MTBaldy-Upgrade	37.05	149.69	-2.45
17225	MTBaldy-Upgrade	36.90	149.70	-2.45
17226	MTBaldy-Upgrade	36.64	149.71	-2.45
17227	MTBaldy-Upgrade	36.78	149.72	-2.45
17228	MTBaldy-Upgrade	36.86	149.73	-2.45
17229	MTBaldy-Upgrade	36.85	149.74	-2.45
17230	MTBaldy-Upgrade	37.17	149.75	-2.45
17231	MTBaldy-Upgrade	38.02	149.76	1.35
17232	MTBaldy-Upgrade	38.66	149.77	1.35
17233	MTBaldy-Upgrade	38.97	149.78	1.35
17234	MTBaldy-Upgrade	38.98	149.79	1.35
17235	MTBaldy-Upgrade	38.38	149.80	1.35
17236	MTBaldy-Upgrade	37.40	149.81	1.35
17237	MTBaldy-Upgrade	36.32	149.82	1.35
17238	MTBaldy-Upgrade	35.35	149.83	1.35
17239	MTBaldy-Upgrade	35.17	149.84	1.35
17240	MTBaldy-Upgrade	35.43	149.85	1.83
17241	MTBaldy-Upgrade	35.63	149.86	1.83

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time (s)	route	speed (mph)	distance (mi)	grade (%)
17317	MTBaldy-Upgrade	35.00	150.67	-4.68
17318	MTBaldy-Upgrade	35.33	150.67	-4.68
17319	MTBaldy-Upgrade	35.62	150.68	-4.68
17320	MTBaldy-Upgrade	35.96	150.69	-4.68
17321	MTBaldy-Upgrade	36.27	150.70	-4.68
17322	MTBaldy-Upgrade	36.64	150.71	-4.68
17323	MTBaldy-Upgrade	36.50	150.72	-4.68
17324	MTBaldy-Upgrade	35.23	150.73	-4.68
17325	MTBaldy-Upgrade	33.73	150.74	-4.68
17326	MTBaldy-Upgrade	32.43	150.75	-5.45
17327	MTBaldy-Upgrade	31.12	150.76	-5.45
17328	MTBaldy-Upgrade	29.76	150.77	-5.45
17329	MTBaldy-Upgrade	28.94	150.78	-5.45
17330	MTBaldy-Upgrade	28.90	150.79	-5.45
17331	MTBaldy-Upgrade	29.78	150.79	-5.45
17332	MTBaldy-Upgrade	31.43	150.80	-5.45
17333	MTBaldy-Upgrade	34.84	150.81	-5.45
17334	MTBaldy-Upgrade	38.75	150.82	-5.45
17335	MTBaldy-Upgrade	42.29	150.83	-5.45
17336	MTBaldy-Upgrade	45.29	150.85	-5.45
17337	MTBaldy-Upgrade	48.21	150.86	-4.89
17338	MTBaldy-Upgrade	51.33	150.87	-4.89
17339	MTBaldy-Upgrade	53.12	150.89	-4.89
17340	MTBaldy-Upgrade	52.81	150.90	-4.89
17341	MTBaldy-Upgrade	52.70	150.92	-4.89
17342	MTBaldy-Upgrade	53.14	150.93	-4.89
17343	MTBaldy-Upgrade	53.48	150.95	-4.89
17344	MTBaldy-Upgrade	53.45	150.96	-4.89
17345	MTBaldy-Upgrade	52.47	150.98	-8.93
17346	MTBaldy-Upgrade	51.37	150.99	-8.93
17347	MTBaldy-Upgrade	52.29	151.00	-8.93
17348	MTBaldy-Upgrade	52.58	151.02	-8.93
17349	MTBaldy-Upgrade	53.00	151.03	-8.93
17350	MTBaldy-Upgrade	53.82	151.05	-8.93
17351	MTBaldy-Upgrade	53.99	151.06	-9.13
17352	MTBaldy-Upgrade	53.70	151.08	-9.13
17353	MTBaldy-Upgrade	53.12	151.09	-9.13
17354	MTBaldy-Upgrade	52.85	151.11	-9.13
17355	MTBaldy-Upgrade	52.05	151.12	-9.13
17356	MTBaldy-Upgrade	52.06	151.14	-9.13
17357	MTBaldy-Upgrade	52.83	151.15	-9.13
17358	MTBaldy-Upgrade	52.29	151.16	-8.40
17359	MTBaldy-Upgrade	51.63	151.18	-8.40
17360	MTBaldy-Upgrade	52.06	151.19	-8.40
17361	MTBaldy-Upgrade	53.06	151.21	-8.40
17362	MTBaldy-Upgrade	53.80	151.22	-8.40
17363	MTBaldy-Upgrade	53.54	151.24	-8.40
17364	MTBaldy-Upgrade	53.09	151.25	-8.40
17365	MTBaldy-Upgrade	53.96	151.27	-3.22
17366	MTBaldy-Upgrade	53.97	151.28	-3.22
17367	MTBaldy-Upgrade	53.40	151.30	-3.22
17368	MTBaldy-Upgrade	53.17	151.31	-3.22
17369	MTBaldy-Upgrade	53.09	151.32	-3.22
17370	MTBaldy-Upgrade	53.60	151.34	-3.22
17371	MTBaldy-Upgrade	53.66	151.35	-3.22
17372	MTBaldy-Upgrade	53.42	151.37	-3.22
17373	MTBaldy-Upgrade	53.28	151.38	-3.22
17374	MTBaldy-Upgrade	53.05	151.40	-3.22
17375	MTBaldy-Upgrade	52.95	151.41	-3.22
17376	MTBaldy-Upgrade	52.62	151.43	-3.22
17377	MTBaldy-Upgrade	51.90	151.44	-3.22
17378	MTBaldy-Upgrade	50.40	151.46	-3.22
17379	MTBaldy-Upgrade	48.94	151.47	-3.22
17380	MTBaldy-Upgrade	47.39	151.48	-3.22
17381	MTBaldy-Upgrade	47.37	151.49	-3.22
17382	MTBaldy-Upgrade	47.31	151.51	-3.22
17383	MTBaldy-Upgrade	47.16	151.52	-3.22
17384	MTBaldy-Upgrade	46.44	151.53	-3.22
17385	MTBaldy-Upgrade	45.54	151.55	-3.22
17386	MTBaldy-Upgrade	45.51	151.56	-3.19
17387	MTBaldy-Upgrade	46.10	151.57	-3.19
17388	MTBaldy-Upgrade	47.04	151.58	-3.19
17389	MTBaldy-Upgrade	47.05	151.60	-3.19
17390	MTBaldy-Upgrade	47.05	151.61	-3.19
17391	MTBaldy-Upgrade	45.73	151.62	-3.19
17392	MTBaldy-Upgrade	44.27	151.63	-3.19
17393	MTBaldy-Upgrade	42.86	151.65	-3.19
17394	MTBaldy-Upgrade	42.87	151.66	-5.33

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time (s)	route	speed (mph)	distance (mi)	grade (%)
17238	MTBaldy-Upgrade	35.68	149.87	1.83
17240	MTBaldy-Upgrade	35.73	149.88	1.83
17241	MTBaldy-Upgrade	36.79	149.89	1.83
17242	MTBaldy-Upgrade	38.59	149.90	1.83
17243	MTBaldy-Upgrade	39.45	149.91	1.83
17244	MTBaldy-Upgrade	39.47	149.92	1.83
17245	MTBaldy-Upgrade	40.41	149.94	1.83
17246	MTBaldy-Upgrade	41.32	149.95	1.83
17247	MTBaldy-Upgrade	41.25	149.96	-7.62
17248	MTBaldy-Upgrade	41.15	149.97	-7.62
17249	MTBaldy-Upgrade	41.07	149.98	-7.62
17250	MTBaldy-Upgrade	41.76	149.99	-7.62
17251	MTBaldy-Upgrade	41.24	150.00	-7.62
17252	MTBaldy-Upgrade	40.69	150.01	-7.62
17253	MTBaldy-Upgrade	39.48	150.03	-7.62
17254	MTBaldy-Upgrade	39.00	150.04	-7.62
17255	MTBaldy-Upgrade	38.33	150.05	-7.62
17256	MTBaldy-Upgrade	37.38	150.06	-7.43
17257	MTBaldy-Upgrade	37.43	150.07	-7.43
17258	MTBaldy-Upgrade	37.08	150.08	-7.43
17259	MTBaldy-Upgrade	36.14	150.09	-7.43
17260	MTBaldy-Upgrade	35.56	150.10	-7.43
17261	MTBaldy-Upgrade	36.33	150.11	-7.43
17262	MTBaldy-Upgrade	35.97	150.12	-7.43
17263	MTBaldy-Upgrade	35.28	150.13	-7.43
17264	MTBaldy-Upgrade	35.23	150.14	-7.43
17265	MTBaldy-Upgrade	35.79	150.15	-7.43
17266	MTBaldy-Upgrade	35.33	150.16	-8.90
17267	MTBaldy-Upgrade	35.18	150.17	-8.90
17268	MTBaldy-Upgrade	35.34	150.18	-8.90
17269	MTBaldy-Upgrade	36.13	150.19	-8.90
17270	MTBaldy-Upgrade	36.76	150.20	-8.90
17271	MTBaldy-Upgrade	37.22	150.21	-8.90
17272	MTBaldy-Upgrade	37.42	150.22	-8.90
17273	MTBaldy-Upgrade	37.23	150.23	-8.90
17274	MTBaldy-Upgrade	36.98	150.24	-8.90
17275	MTBaldy-Upgrade	36.73	150.25	-8.90
17276	MTBaldy-Upgrade	36.58	150.26	-5.15
17277	MTBaldy-Upgrade	37.70	150.27	-5.15
17278	MTBaldy-Upgrade	38.11	150.28	-5.15
17279	MTBaldy-Upgrade	37.89	150.29	-5.15
17280	MTBaldy-Upgrade	37.56	150.30	-5.15
17281	MTBaldy-Upgrade	36.99	150.31	-5.15
17282	MTBaldy-Upgrade	36.55	150.32	-5.15
17283	MTBaldy-Upgrade	36.13	150.33	-5.15
17284	MTBaldy-Upgrade	37.20	150.34	-3.24
17285	MTBaldy-Upgrade	38.48	150.35	-5.15
17286	MTBaldy-Upgrade	39.17	150.36	-2.44
17287	MTBaldy-Upgrade	38.72	150.37	-2.44
17288	MTBaldy-Upgrade	37.85	150.38	-2.44
17289	MTBaldy-Upgrade	36.72	150.39	-2.44
17290	MTBaldy-Upgrade	36.40	150.40	-2.44
17291	MTBaldy-Upgrade	34.65	150.41	-2.44
17292	MTBaldy-Upgrade	35.30	150.42	-2.44
17293	MTBaldy-Upgrade	35.28	150.43	-2.44
17294	MTBaldy-Upgrade	36.10	150.44	-2.44



Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 17473 to 17550.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 17629 to 17706.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 17551 to 17628.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 17707 to 17784.



time (s)	route	speed (mph)	distance (mi)	grade (%)
18097	Upland-CECET	5.76	155.64	4.92
18098	Upland-CECET	5.26	155.64	4.92
18099	Upland-CECET	4.92	155.64	4.92
18100	Upland-CECET	4.44	155.64	4.92
18101	Upland-CECET	3.96	155.65	4.92
18102	Upland-CECET	3.56	155.65	4.92
18103	Upland-CECET	2.97	155.65	4.92
18104	Upland-CECET	1.93	155.65	4.92
18105	Upland-CECET	0.80	155.65	4.92
18106	Upland-CECET	0.00	155.65	4.92
18107	Upland-CECET	0.00	155.65	4.92
18108	Upland-CECET	0.00	155.65	4.92
18109	Upland-CECET	0.00	155.65	4.92
18110	Upland-CECET	0.00	155.65	4.92
18111	Upland-CECET	0.00	155.65	4.92
18112	Upland-CECET	0.00	155.65	4.92
18113	Upland-CECET	0.00	155.65	4.92
18114	Upland-CECET	0.00	155.65	4.92
18115	Upland-CECET	0.00	155.65	4.92
18116	Upland-CECET	0.00	155.65	4.92
18117	Upland-CECET	0.00	155.65	4.92
18118	Upland-CECET	0.00	155.65	4.92
18119	Upland-CECET	0.00	155.65	4.92
18120	Upland-CECET	0.00	155.65	4.92
18121	Upland-CECET	0.00	155.65	4.92
18122	Upland-CECET	0.00	155.65	4.92
18123	Upland-CECET	0.00	155.65	4.92
18124	Upland-CECET	0.00	155.65	4.92
18125	Upland-CECET	0.00	155.65	4.92
18126	Upland-CECET	0.00	155.65	4.92
18127	Upland-CECET	0.00	155.65	4.92
18128	Upland-CECET	0.00	155.65	4.92
18129	Upland-CECET	0.00	155.65	4.92
18130	Upland-CECET	0.00	155.65	4.92
18131	Upland-CECET	0.00	155.65	4.92
18132	Upland-CECET	0.00	155.65	4.92
18133	Upland-CECET	0.00	155.65	4.92
18134	Upland-CECET	0.00	155.65	4.92
18135	Upland-CECET	0.00	155.65	4.92
18136	Upland-CECET	0.00	155.65	4.92
18137	Upland-CECET	0.00	155.65	4.92
18138	Upland-CECET	0.00	155.65	4.92
18139	Upland-CECET	0.00	155.65	4.92
18140	Upland-CECET	0.00	155.65	4.92
18141	Upland-CECET	0.00	155.65	4.92
18142	Upland-CECET	0.00	155.65	4.92
18143	Upland-CECET	0.00	155.65	4.92
18144	Upland-CECET	0.00	155.65	4.92
18145	Upland-CECET	0.00	155.65	4.92
18146	Upland-CECET	0.00	155.65	4.92
18147	Upland-CECET	0.00	155.65	4.92
18148	Upland-CECET	0.00	155.65	4.92
18149	Upland-CECET	0.15	155.65	4.92
18150	Upland-CECET	2.05	155.65	4.92
18151	Upland-CECET	2.44	155.65	4.92
18152	Upland-CECET	1.24	155.65	4.92
18153	Upland-CECET	1.98	155.65	-1.16
18154	Upland-CECET	5.73	155.65	-1.16
18155	Upland-CECET	9.20	155.65	-1.16
18156	Upland-CECET	11.66	155.66	-1.16
18157	Upland-CECET	13.73	155.66	-1.16
18158	Upland-CECET	17.13	155.67	-1.16
18159	Upland-CECET	21.29	155.67	-1.16
18160	Upland-CECET	27.40	155.68	-1.16
18161	Upland-CECET	34.43	155.69	-1.16
18162	Upland-CECET	40.91	155.70	-1.16
18163	Upland-CECET	46.48	155.71	-1.16
18164	Upland-CECET	51.56	155.73	-1.16
18165	Upland-CECET	55.61	155.74	-1.16
18166	Upland-CECET	59.04	155.76	-1.59
18167	Upland-CECET	62.35	155.78	-1.59
18168	Upland-CECET	62.58	155.79	-1.59
18169	Upland-CECET	61.47	155.81	-1.59
18170	Upland-CECET	60.39	155.83	-1.59
18171	Upland-CECET	60.11	155.84	-1.59
18172	Upland-CECET	60.35	155.86	0.21
18173	Upland-CECET	60.75	155.88	0.21
18174	Upland-CECET	60.90	155.89	0.21

time (s)	route	speed (mph)	distance (mi)	grade (%)
18253	Upland-CECET	0.00	156.25	-0.18
18254	Upland-CECET	0.00	156.25	-0.18
18255	Upland-CECET	0.00	156.25	-0.18
18256	Upland-CECET	0.00	156.25	-0.18
18257	Upland-CECET	0.00	156.25	-0.18
18258	Upland-CECET	0.00	156.25	-0.18
18259	Upland-CECET	0.00	156.25	-0.18
18260	Upland-CECET	0.00	156.25	-0.18
18261	Upland-CECET	0.00	156.25	-0.18
18262	Upland-CECET	0.00	156.25	-0.18
18263	Upland-CECET	0.00	156.25	-0.18
18264	Upland-CECET	0.00	156.25	-0.18
18265	Upland-CECET	0.00	156.25	-0.18
18266	Upland-CECET	0.00	156.25	-0.18
18267	Upland-CECET	0.00	156.25	-0.18
18268	Upland-CECET	0.96	156.25	-0.18
18269	Upland-CECET	5.39	156.25	-0.18
18270	Upland-CECET	10.65	156.25	-0.18
18271	Upland-CECET	14.57	156.26	-0.18
18272	Upland-CECET	18.31	156.26	-0.18
18273	Upland-CECET	21.69	156.27	-0.18
18274	Upland-CECET	24.17	156.27	-0.18
18275	Upland-CECET	26.11	156.28	-0.18
18276	Upland-CECET	28.86	156.29	-0.18
18277	Upland-CECET	30.71	156.30	-0.18
18278	Upland-CECET	32.01	156.30	-0.18
18279	Upland-CECET	33.16	156.31	-0.18
18280	Upland-CECET	33.32	156.32	-0.18
18281	Upland-CECET	34.64	156.33	-0.18
18282	Upland-CECET	36.72	156.34	-0.18
18283	Upland-CECET	37.97	156.35	0.24
18284	Upland-CECET	38.80	156.36	0.24
18285	Upland-CECET	39.69	156.37	0.24
18286	Upland-CECET	40.68	156.39	0.24
18287	Upland-CECET	41.72	156.40	0.24
18288	Upland-CECET	42.70	156.41	0.24
18289	Upland-CECET	43.55	156.42	0.24
18290	Upland-CECET	43.61	156.43	0.24
18291	Upland-CECET	43.03	156.44	0.24
18292	Upland-CECET	43.74	156.46	0.17
18293	Upland-CECET	44.37	156.47	0.17
18294	Upland-CECET	44.57	156.48	0.17
18295	Upland-CECET	44.77	156.49	0.17
18296	Upland-CECET	45.42	156.51	0.17
18297	Upland-CECET	44.85	156.52	0.17
18298	Upland-CECET	44.42	156.53	0.17
18299	Upland-CECET	45.29	156.54	0.17
18300	Upland-CECET	46.21	156.56	0.24
18301	Upland-CECET	46.93	156.57	0.24
18302	Upland-CECET	47.28	156.58	0.24
18303	Upland-CECET	47.28	156.59	0.24
18304	Upland-CECET	46.73	156.61	0.24
18305	Upland-CECET	46.94	156.62	0.24
18306	Upland-CECET	46.67	156.63	0.24
18307	Upland-CECET	46.62	156.65	0.24
18308	Upland-CECET	46.80	156.66	0.19
18309	Upland-CECET	46.58	156.67	0.19
18310	Upland-CECET	45.34	156.68	0.19
18311	Upland-CECET	45.17	156.70	0.19
18312	Upland-CECET	44.57	156.71	0.19
18313	Upland-CECET	44.69	156.72	0.19
18314	Upland-CECET	44.14	156.73	0.19
18315	Upland-CECET	43.53	156.75	0.19
18316	Upland-CECET	42.79	156.76	-0.12
18317	Upland-CECET	42.21	156.77	-0.12
18318	Upland-CECET	42.14	156.78	-0.12
18319	Upland-CECET	42.88	156.79	-0.12
18320	Upland-CECET	42.63	156.80	-0.12
18321	Upland-CECET	41.67	156.82	-0.12
18322	Upland-CECET	40.17	156.83	-0.12
18323	Upland-CECET	37.66	156.84	-0.12
18324	Upland-CECET	34.58	156.85	-0.12
18325	Upland-CECET	31.24	156.85	-0.58
18326	Upland-CECET	28.22	156.86	-0.58
18327	Upland-CECET	25.28	156.87	-0.58
18328	Upland-CECET	22.14	156.88	-0.58
18329	Upland-CECET	18.81	156.88	-0.58
18330	Upland-CECET	14.99	156.88	-0.58

time (s)	route	speed (mph)	distance (mi)	grade (%)
18175	Upland-CECET	60.09	155.91	0.21
18176	Upland-CECET	58.18	155.93	0.21
18177	Upland-CECET	58.62	155.94	0.21
18178	Upland-CECET	57.71	155.96	0.86
18179	Upland-CECET	57.45	155.97	0.86
18180	Upland-CECET	57.50	155.99	0.86
18181	Upland-CECET	57.32	156.01	0.86
18182	Upland-CECET	56.72	156.02	0.86
18183	Upland-CECET	56.38	156.04	0.86
18184	Upland-CECET	56.73	156.05	0.31
18185	Upland-CECET	56.80	156.07	0.31
18186	Upland-CECET	55.13	156.08	0.31
18187	Upland-CECET	51.57	156.10	0.31
18188	Upland-CECET	47.43	156.11	0.31
18189	Upland-CECET	43.26	156.12	0.31
18190	Upland-CECET	39.33	156.13	0.31
18191	Upland-CECET	36.21	156.14	0.31
18192	Upland-CECET	33.47	156.15	-0.18
18193	Upland-CECET	31.09	156.16	-0.18
18194	Upland-CECET	28.67	156.17	-0.18
18195	Upland-CECET	26.20	156.18	-0.18
18196	Upland-CECET	23.76	156.18	-0.18
18197	Upland-CECET	21.53	156.19	-0.18
18198	Upland-CECET	20.09	156.19	-0.18
18199	Upland-CECET	20.04	156.20	-0.18
18200	Upland-CECET	19.69	156.20	-0.18
18201	Upland-CECET	18.32	156.21	-0.18
18202	Upland-CECET	16.42	156.21	-0.18
18203	Upland-CECET	14.64	156.22	-0.18
18204	Upland-CECET	13.28	156.22	-0.18
18205	Upland-CECET	12.19	156.22	-0.18
18206	Upland-CECET	10.88	156.23	-0.18
18207	Upland-CECET	9.12	156.23	-0.18
18208	Upland-CECET	6.84	156.23	-0.18
18209	Upland-CECET	4.81	156.23	-0.18
18210	Upland-CECET	3.87	156.23	-0.18
18211	Upland-CECET	3.06	156.24	-0.18
18212	Upland-CECET	2.20	156.24	-0.18
18213	Upland-CECET	2.20	156.24	-0.18
18214	Upland-CECET	3.22	156.24	-0.18
18215	Upland-CECET	4.18	156.24	-0.18
18216	Upland-CECET	4.98	156.24	-0.18
18217	Upland-CECET	5.48	156.24	-0.18
18218	Upland-CECET	5.22	156.24	-0.18
18219	Upland-CECET	4.73	156.24	-0.18
18220	Upland-CECET	3.85	156.25	-0.18
18221	Upland-CECET	2.61	156.25	-0.18
18222	Upland-CECET	1.02	156.25	-0.18
18223	Upland-CECET	0.00	156.25	-0.18
18224	Upland-CECET	0.00	156.25	-0.18
18225	Upland-CECET	0.00	156.25	-0.18
18226	Upland-CECET	0.00	156.25	-0.18
18227	Upland-CECET	0.00	156.25	-0.18
18228	Upland-CECET	0.00	156.25	-0

time (s)	route	speed (mph)	distance (mi)	grade (%)
18405	Upland-CECER2	44.82	157.05	-0.43
18410	Upland-CECER2	46.66	157.06	-0.62
18411	Upland-CECER2	48.65	157.07	-0.62
18412	Upland-CECER2	50.74	157.09	-0.62
18413	Upland-CECER2	51.24	157.10	-0.62
18414	Upland-CECER2	50.72	157.11	-0.62
18415	Upland-CECER2	51.22	157.13	-0.62
18416	Upland-CECER2	52.42	157.14	-0.62
18417	Upland-CECER2	52.05	157.16	-1.08
18418	Upland-CECER2	51.95	157.17	-1.08
18419	Upland-CECER2	52.67	157.19	-1.08
18420	Upland-CECER2	53.65	157.20	-1.08
18421	Upland-CECER2	54.51	157.22	-1.08
18422	Upland-CECER2	54.84	157.23	-1.08
18423	Upland-CECER2	55.46	157.25	-1.08
18424	Upland-CECER2	55.85	157.26	-1.18
18425	Upland-CECER2	56.08	157.28	-1.18
18426	Upland-CECER2	56.29	157.29	-1.18
18427	Upland-CECER2	55.90	157.31	-1.18
18428	Upland-CECER2	56.48	157.32	-1.18
18429	Upland-CECER2	56.62	157.34	-1.18
18430	Upland-CECER2	56.26	157.35	-1.09
18431	Upland-CECER2	56.77	157.37	-1.09
18432	Upland-CECER2	56.84	157.39	-1.09
18433	Upland-CECER2	57.03	157.40	-1.09
18434	Upland-CECER2	56.92	157.42	-1.09
18435	Upland-CECER2	56.07	157.43	-1.09
18436	Upland-CECER2	55.57	157.45	-0.99
18437	Upland-CECER2	55.16	157.46	-0.64
18438	Upland-CECER2	55.78	157.48	-0.64
18439	Upland-CECER2	55.33	157.49	-0.64
18440	Upland-CECER2	55.17	157.51	-0.64
18441	Upland-CECER2	55.88	157.52	-0.64
18442	Upland-CECER2	56.68	157.54	-0.64
18443	Upland-CECER2	56.54	157.56	-1.19
18444	Upland-CECER2	56.34	157.57	-1.19
18445	Upland-CECER2	56.41	157.59	-1.19
18446	Upland-CECER2	56.38	157.60	-1.19
18447	Upland-CECER2	55.69	157.62	-1.19
18448	Upland-CECER2	55.27	157.63	-1.19
18449	Upland-CECER2	54.81	157.65	-1.19
18450	Upland-CECER2	54.78	157.66	-1.25
18451	Upland-CECER2	54.45	157.68	-1.25
18452	Upland-CECER2	54.14	157.69	-1.25
18453	Upland-CECER2	54.69	157.71	-1.25
18454	Upland-CECER2	55.14	157.72	-1.25
18455	Upland-CECER2	55.30	157.74	-1.25
18456	Upland-CECER2	55.75	157.75	-1.47
18457	Upland-CECER2	54.48	157.77	-1.47
18458	Upland-CECER2	54.02	157.78	-1.47
18459	Upland-CECER2	52.93	157.80	-1.47
18460	Upland-CECER2	51.11	157.81	-1.47
18461	Upland-CECER2	49.69	157.82	-1.47
18462	Upland-CECER2	49.22	157.84	-1.47
18463	Upland-CECER2	48.86	157.85	-1.33
18464	Upland-CECER2	49.00	157.87	-1.33
18465	Upland-CECER2	48.39	157.88	-1.33
18466	Upland-CECER2	47.78	157.89	-1.33
18467	Upland-CECER2	47.47	157.90	-1.33
18468	Upland-CECER2	48.16	157.92	-1.33
18469	Upland-CECER2	49.09	157.93	-1.33
18470	Upland-CECER2	49.64	157.95	-1.33
18471	Upland-CECER2	48.25	157.96	-0.87
18472	Upland-CECER2	46.53	157.97	-0.87
18473	Upland-CECER2	44.45	157.98	-0.87
18474	Upland-CECER2	42.24	157.99	-0.87
18475	Upland-CECER2	40.03	158.01	-0.87
18476	Upland-CECER2	38.12	158.02	-0.87
18477	Upland-CECER2	37.00	158.03	-0.87
18478	Upland-CECER2	37.07	158.04	-0.87
18479	Upland-CECER2	36.85	158.05	-0.87
18480	Upland-CECER2	36.58	158.06	-0.87
18481	Upland-CECER2	37.88	158.07	-0.87
18482	Upland-CECER2	39.73	158.08	-0.87
18483	Upland-CECER2	41.79	158.09	-0.87
18484	Upland-CECER2	43.67	158.10	-0.87
18485	Upland-CECER2	43.65	158.11	-0.87
18486	Upland-CECER2	43.02	158.13	-0.87

time (s)	route	speed (mph)	distance (mi)	grade (%)
18565	Upland-CECER2	0.00	158.53	-0.91
18566	Upland-CECER2	0.00	158.53	-0.91
18567	Upland-CECER2	0.00	158.53	-0.91
18568	Upland-CECER2	0.00	158.53	-0.91
18569	Upland-CECER2	0.00	158.53	-0.91
18570	Upland-CECER2	0.00	158.53	-0.91
18571	Upland-CECER2	0.00	158.53	-0.91
18572	Upland-CECER2	0.00	158.53	-0.91
18573	Upland-CECER2	0.00	158.53	-0.91
18574	Upland-CECER2	0.00	158.53	-0.91
18575	Upland-CECER2	0.00	158.53	-0.91
18576	Upland-CECER2	0.00	158.53	-0.91
18577	Upland-CECER2	0.00	158.53	-0.91
18578	Upland-CECER2	0.00	158.53	-0.91
18579	Upland-CECER2	0.00	158.53	-0.91
18580	Upland-CECER2	0.00	158.53	-0.91
18581	Upland-CECER2	0.00	158.53	-0.91
18582	Upland-CECER2	0.00	158.53	-0.91
18583	Upland-CECER2	0.00	158.53	-0.91
18584	Upland-CECER2	0.00	158.53	-0.91
18585	Upland-CECER2	0.00	158.53	-0.91
18586	Upland-CECER2	0.00	158.53	-0.91
18587	Upland-CECER2	0.00	158.53	-0.91
18588	Upland-CECER2	0.39	158.53	-0.91
18589	Upland-CECER2	3.95	158.53	-0.91
18590	Upland-CECER2	8.79	158.54	-0.91
18591	Upland-CECER2	13.13	158.54	-0.91
18592	Upland-CECER2	16.69	158.54	-0.91
18593	Upland-CECER2	19.66	158.55	-1.17
18594	Upland-CECER2	21.51	158.56	-1.17
18595	Upland-CECER2	23.14	158.56	-1.17
18596	Upland-CECER2	24.79	158.57	-1.17
18597	Upland-CECER2	26.97	158.58	-1.17
18598	Upland-CECER2	28.66	158.58	-1.17
18599	Upland-CECER2	30.07	158.59	-1.17
18600	Upland-CECER2	31.30	158.60	-1.17
18601	Upland-CECER2	32.78	158.61	-1.17
18602	Upland-CECER2	34.15	158.62	-1.17
18603	Upland-CECER2	35.23	158.63	-1.17
18604	Upland-CECER2	35.35	158.64	-1.17
18605	Upland-CECER2	34.88	158.65	-1.17
18606	Upland-CECER2	35.87	158.66	0.31
18607	Upland-CECER2	37.22	158.67	0.31
18608	Upland-CECER2	38.45	158.68	0.31
18609	Upland-CECER2	39.62	158.69	0.31
18610	Upland-CECER2	38.93	158.70	0.31
18611	Upland-CECER2	39.69	158.71	0.31
18612	Upland-CECER2	40.64	158.72	0.31
18613	Upland-CECER2	40.97	158.73	0.31
18614	Upland-CECER2	40.30	158.75	0.31
18615	Upland-CECER2	39.63	158.76	0.04
18616	Upland-CECER2	39.11	158.77	0.04
18617	Upland-CECER2	38.39	158.78	0.04
18618	Upland-CECER2	37.89	158.79	0.04
18619	Upland-CECER2	37.89	158.80	0.04
18620	Upland-CECER2	37.24	158.81	0.04
18621	Upland-CECER2	36.64	158.82	0.04
18622	Upland-CECER2	37.06	158.83	0.04
18623	Upland-CECER2	38.03	158.84	0.04
18624	Upland-CECER2	39.31	158.85	0.44
18625	Upland-CECER2	40.62	158.86	0.44
18626	Upland-CECER2	41.80	158.87	0.44
18627	Upland-CECER2	42.21	158.88	0.44
18628	Upland-CECER2	42.48	158.90	0.44
18629	Upland-CECER2	42.14	158.91	0.44
18630	Upland-CECER2	43.00	158.92	0.44
18631	Upland-CECER2	43.28	158.93	0.44
18632	Upland-CECER2	43.72	158.94	0.44
18633	Upland-CECER2	44.04	158.96	0.47
18634	Upland-CECER2	44.61	158.97	0.47
18635	Upland-CECER2	45.22	158.98	0.47
18636	Upland-CECER2	45.89	158.99	0.47
18637	Upland-CECER2	46.33	159.01	0.47
18638	Upland-CECER2	46.74	159.02	0.47
18639	Upland-CECER2	46.16	159.03	0.47
18640	Upland-CECER2	45.67	159.04	0.14
18641	Upland-CECER2	45.88	159.06	0.14
18642	Upland-CECER2	46.67	159.07	0.14

time (s)	route	speed (mph)	distance (mi)	grade (%)
18487	Upland-CECER2	43.58	158.14	-0.38
18488	Upland-CECER2	45.17	158.15	-0.67
18489	Upland-CECER2	47.16	158.16	-0.67
18490	Upland-CECER2	47.29	158.18	-0.67
18491	Upland-CECER2	46.74	158.19	-0.67
18492	Upland-CECER2	45.93	158.20	-0.67
18493	Upland-CECER2	45.40	158.21	-0.67
18494	Upland-CECER2	45.51	158.23	-0.67
18495	Upland-CECER2	45.11	158.24	-0.67
18496	Upland-CECER2	44.50	158.25	-0.74
18497	Upland-CECER2	45.32	158.26	-0.74
18498	Upland-CECER2	45.93	158.28	-0.74
18499	Upland-CECER2	45.19	158.29	-0.74
18500	Upland-CECER2	44.42	158.30	-0.74
18501	Upland-CECER2	42.73	158.31	-0.74
18502	Upland-CECER2	40.03	158.32	-0.74
18503	Upland-CECER2	37.52	158.33	-0.74
18504	Upland-CECER2	36.85	158.34	-0.74
18505	Upland-CECER2	33.87	158.35	-0.63
18506	Upland-CECER2	32.11	158.36	-0.63
18507	Upland-CECER2	23.50	158.37	-0.63
18508	Upland-CECER2	30.99	158.38	-0.63
18509	Upland-CECER2	30.47	158.39	-0.63
18510	Upland-CECER2	29.94	158.40	-0.63
18511	Upland-CECER2	28.58	158.40	-0.63
18512	Upland-CECER2	26.17	158.41	-0.63
18513	Upland-CECER2	22.63	158.42	-0.63
18514	Upland-CECER2	18.64	158.42	-0.63
18515	Upland-CECER2	12.88	158.43	-0.63
18516	Upland-CECER2	7.25	158.43	-0.63
18517	Upland-CECER2	3.32	158.43	-0.63
18518	Upland-CECER2	1.40	158.43	-0.63
18519	Upland-CECER2	1.75	158.43	-0.63
18520	Upland-CECER2	3.05	158.43	-0.63
18521	Upland-CECER2	4.22	158.43	-0.63
18522	Upland-CECER2	5.24	158.43	-0.63
18523	Upland-CECER2	7.60	158.43	-0.63
18524	Upland-CECER2	8.96	158.44	-0.63
18525	Upland-CECER2	10.27	158.44	-0.63
18526	Upland-CECER2	12.47	158.44	-0.63
18527	Upland-CECER2	14.15	158.45	-0.63
18528	Upland-CECER2	15.68	158.45	-0.91
18529	Upland-CECER2	16.98	158.46	-0.91
18530	Upland-CECER2	17.37	158.46	-0.91
18531	Upland-CECER2	17.09	158.47	-0.91
18532	Upland-CECER2	17.42	158.47	-0.91
18533	Upland-CECER2	17.64	158.48	-0.91
18534	Upland-CECER2	17.32	158.48	-0.91
18535	Upland-CECER2	17.56	158.49	-0.91
18536	Upland-CEC			

time [s]	route	speed [mph]	distance [mi]	grade [%]
18721	Upland-CECERT	34.61	159.63	0.23
18722	Upland-CECERT	35.06	159.64	0.23
18723	Upland-CECERT	35.45	159.65	0.02
18724	Upland-CECERT	35.63	159.66	0.02
18725	Upland-CECERT	36.08	159.67	0.02
18726	Upland-CECERT	35.69	159.68	0.02
18727	Upland-CECERT	34.41	159.69	0.02
18728	Upland-CECERT	32.32	159.70	0.02
18729	Upland-CECERT	29.87	159.71	0.02
18730	Upland-CECERT	27.50	159.72	0.02
18731	Upland-CECERT	24.83	159.72	0.02
18732	Upland-CECERT	21.98	159.73	0.02
18733	Upland-CECERT	19.00	159.74	0.02
18734	Upland-CECERT	15.98	159.74	0.02
18735	Upland-CECERT	13.86	159.74	0.02
18736	Upland-CECERT	12.04	159.75	0.02
18737	Upland-CECERT	10.67	159.75	0.02
18738	Upland-CECERT	9.39	159.75	0.45
18739	Upland-CECERT	7.82	159.75	0.45
18740	Upland-CECERT	6.60	159.76	0.45
18741	Upland-CECERT	5.66	159.76	0.45
18742	Upland-CECERT	5.36	159.76	0.45
18743	Upland-CECERT	5.59	159.76	0.45
18744	Upland-CECERT	7.88	159.76	0.45
18745	Upland-CECERT	12.32	159.77	0.45
18746	Upland-CECERT	15.40	159.77	0.45
18747	Upland-CECERT	18.51	159.78	0.45
18748	Upland-CECERT	21.18	159.78	0.45
18749	Upland-CECERT	23.40	159.79	0.45
18750	Upland-CECERT	24.07	159.79	0.45
18751	Upland-CECERT	24.80	159.80	0.45
18752	Upland-CECERT	26.41	159.81	0.45
18753	Upland-CECERT	27.69	159.82	0.45
18754	Upland-CECERT	29.27	159.82	0.45
18755	Upland-CECERT	30.88	159.83	0.45
18756	Upland-CECERT	31.73	159.84	0.45
18757	Upland-CECERT	32.26	159.85	-2.32
18758	Upland-CECERT	22.52	159.86	-2.32
18759	Upland-CECERT	33.07	159.87	-2.32
18760	Upland-CECERT	32.11	159.88	-2.32
18761	Upland-CECERT	31.97	159.89	-2.32
18762	Upland-CECERT	32.22	159.89	-2.32
18763	Upland-CECERT	32.06	159.90	-2.32
18764	Upland-CECERT	31.28	159.91	-2.32
18765	Upland-CECERT	30.68	159.92	-2.32
18766	Upland-CECERT	30.10	159.93	-2.32
18767	Upland-CECERT	29.37	159.94	-2.32
18768	Upland-CECERT	28.30	159.94	-2.32
18769	Upland-CECERT	26.47	159.95	0.03
18770	Upland-CECERT	24.65	159.96	0.03
18771	Upland-CECERT	23.03	159.97	0.03
18772	Upland-CECERT	20.88	159.97	0.03
18773	Upland-CECERT	18.60	159.98	0.03
18774	Upland-CECERT	16.54	159.98	0.03
18775	Upland-CECERT	14.73	159.98	0.03
18776	Upland-CECERT	13.77	159.99	0.03
18777	Upland-CECERT	13.43	159.99	0.03
18778	Upland-CECERT	11.86	160.00	0.03
18779	Upland-CECERT	9.99	160.00	0.03
18780	Upland-CECERT	8.36	160.00	0.03
18781	Upland-CECERT	6.76	160.00	0.03
18782	Upland-CECERT	5.42	160.00	0.03
18783	Upland-CECERT	4.45	160.00	0.03
18784	Upland-CECERT	3.62	160.01	0.03
18785	Upland-CECERT	2.74	160.01	0.03
18786	Upland-CECERT	1.58	160.01	0.03
18787	Upland-CECERT	0.17	160.01	0.03
18788	Upland-CECERT	0.00	160.01	0.03
18789	Upland-CECERT	0.00	160.01	0.03
18790	Upland-CECERT	0.00	160.01	0.03
18791	Upland-CECERT	0.00	160.01	0.03
18792	Upland-CECERT	0.00	160.01	0.03
18793	Upland-CECERT	0.00	160.01	0.03
18794	Upland-CECERT	0.00	160.01	0.03
18795	Upland-CECERT	0.00	160.01	0.03
18796	Upland-CECERT	0.00	160.01	0.03
18797	Upland-CECERT	0.00	160.01	0.03
18798	Upland-CECERT	1.17	160.01	0.03

time [s]	route	speed [mph]	distance [mi]	grade [%]
18877	Upland-CECERT	37.82	160.37	-0.06
18878	Upland-CECERT	38.60	160.38	-0.06
18879	Upland-CECERT	39.63	160.40	-0.06
18880	Upland-CECERT	40.28	160.41	-0.06
18881	Upland-CECERT	40.06	160.42	-0.06
18882	Upland-CECERT	40.53	160.43	-0.06
18883	Upland-CECERT	40.25	160.44	-0.06
18884	Upland-CECERT	41.01	160.45	1.85
18885	Upland-CECERT	41.06	160.46	1.85
18886	Upland-CECERT	41.83	160.47	1.85
18887	Upland-CECERT	43.36	160.49	1.85
18888	Upland-CECERT	44.97	160.50	1.85
18889	Upland-CECERT	46.35	160.51	1.85
18890	Upland-CECERT	46.56	160.52	1.85
18891	Upland-CECERT	47.49	160.54	1.85
18892	Upland-CECERT	48.86	160.55	1.85
18893	Upland-CECERT	49.85	160.56	-3.02
18894	Upland-CECERT	50.52	160.58	-3.02
18895	Upland-CECERT	51.41	160.59	-3.02
18896	Upland-CECERT	51.67	160.61	-3.02
18897	Upland-CECERT	51.96	160.62	-3.02
18898	Upland-CECERT	51.28	160.63	-3.02
18899	Upland-CECERT	49.89	160.65	-3.02
18900	Upland-CECERT	47.60	160.66	-5.24
18901	Upland-CECERT	45.83	160.67	-5.24
18902	Upland-CECERT	45.23	160.69	-5.24
18903	Upland-CECERT	43.66	160.70	-5.24
18904	Upland-CECERT	41.60	160.71	-5.24
18905	Upland-CECERT	39.20	160.72	-5.24
18906	Upland-CECERT	36.80	160.73	-5.24
18907	Upland-CECERT	34.48	160.74	-5.24
18908	Upland-CECERT	31.94	160.75	-5.24
18909	Upland-CECERT	29.01	160.76	-2.99
18910	Upland-CECERT	25.85	160.76	-2.99
18911	Upland-CECERT	21.93	160.77	-2.99
18912	Upland-CECERT	18.03	160.77	-2.99
18913	Upland-CECERT	14.21	160.78	-2.99
18914	Upland-CECERT	12.01	160.78	-2.99
18915	Upland-CECERT	10.13	160.78	-2.99
18916	Upland-CECERT	7.80	160.79	-2.99
18917	Upland-CECERT	5.81	160.79	-2.99
18918	Upland-CECERT	4.57	160.79	-2.99
18919	Upland-CECERT	3.34	160.79	-2.99
18920	Upland-CECERT	2.26	160.79	-2.99
18921	Upland-CECERT	1.24	160.79	-2.99
18922	Upland-CECERT	0.00	160.79	-2.99
18923	Upland-CECERT	0.00	160.79	-2.99
18924	Upland-CECERT	0.00	160.79	-2.99
18925	Upland-CECERT	0.00	160.79	-2.99
18926	Upland-CECERT	0.00	160.79	-2.99
18927	Upland-CECERT	0.00	160.79	-2.99
18928	Upland-CECERT	0.00	160.79	-2.99
18929	Upland-CECERT	0.00	160.79	-2.99
18930	Upland-CECERT	0.00	160.79	-2.99
18931	Upland-CECERT	0.00	160.79	-2.99
18932	Upland-CECERT	0.00	160.79	-2.99
18933	Upland-CECERT	1.51	160.79	-2.99
18934	Upland-CECERT	5.16	160.79	-2.99
18935	Upland-CECERT	10.14	160.80	-2.99
18936	Upland-CECERT	13.81	160.80	-2.99
18937	Upland-CECERT	17.06	160.80	-2.99
18938	Upland-CECERT	21.52	160.81	-2.99
18939	Upland-CECERT	25.70	160.82	-2.99
18940	Upland-CECERT	28.66	160.83	-2.99
18941	Upland-CECERT	30.77	160.83	-2.99
18942	Upland-CECERT	32.46	160.84	-2.99
18943	Upland-CECERT	34.11	160.85	0.15
18944	Upland-CECERT	34.78	160.86	0.15
18945	Upland-CECERT	34.29	160.87	0.15
18946	Upland-CECERT	34.62	160.88	0.15
18947	Upland-CECERT	36.00	160.89	0.15
18948	Upland-CECERT	36.68	160.90	0.15
18949	Upland-CECERT	36.87	160.91	0.15
18950	Upland-CECERT	37.99	160.92	0.15
18951	Upland-CECERT	39.18	160.93	0.15
18952	Upland-CECERT	38.89	160.94	0.15
18953	Upland-CECERT	38.19	160.95	-0.75
18954	Upland-CECERT	37.70	160.96	-0.75

time [s]	route	speed [mph]	distance [mi]	grade [%]
18799	Upland-CECERT	1.31	160.01	0.03
18800	Upland-CECERT	1.34	160.01	0.03
18801	Upland-CECERT	1.30	160.01	0.03
18802	Upland-CECERT	1.24	160.01	0.03
18803	Upland-CECERT	1.31	160.01	0.03
18804	Upland-CECERT	1.43	160.01	0.03
18805	Upland-CECERT	0.88	160.01	0.03
18806	Upland-CECERT	0.00	160.01	0.03
18807	Upland-CECERT	0.00	160.01	0.03
18808	Upland-CECERT	0.00	160.01	0.03
18809	Upland-CECERT	0.00	160.01	0.03
18810	Upland-CECERT	0.00	160.01	0.03
18811	Upland-CECERT	0.00	160.01	0.03
18812	Upland-CECERT	0.00	160.01	0.03
18813	Upland-CECERT	0.00	160.01	0.03
18814	Upland-CECERT	0.00	160.01	0.03
18815	Upland-CECERT	0.00	160.01	0.03
18816	Upland-CECERT	0.00	160.01	0.03
18817	Upland-CECERT	0.00	160.01	0.03
18818	Upland-CECERT	0.00	160.01	0.03
18819	Upland-CECERT	0.00	160.01	0.03
18820	Upland-CECERT	0.00	160.01	0.03
18821	Upland-CECERT	0.00	160.01	0.03
18822	Upland-CECERT	0.00	160.01	0.03
18823	Upland-CECERT	0.00	160.01	0.03
18824	Upland-CECERT	0.00	160.01	0.03
18825	Upland-CECERT	0.00	160.01	0.03
18826	Upland-CECERT	0.00	160.01	0.03
18827	Upland-CECERT	0.00	160.01	0.03
18828	Upland-CECERT	0.00	160.01	0.03
18829	Upland-CECERT	0.00	160.01	0.03
18830	Upland-CECERT	0.00	160.01	0.03
18831	Upland-CECERT	0.00	160.01	0.03
18832	Upland-CECERT	0.00	160.01	0.03
18833	Upland-CECERT	0.00	160.01	0.03
18834	Upland-CECERT	0.43	160.01	0.03
18835	Upland-CECERT	2.67	160.01	0.03
18836	Upland-CECERT	4.91	160.01	0.03
18837	Upland-CECERT	6.95	160.01	0.03
18838	Upland-CECERT	10.08	160.02	0.03
18839	Upland-CECERT	12.25	160.02	0.03
18840	Upland-CECERT	14.54	160.02	0.03
18841	Upland-CECERT	18.03	160.03	0.03
18842	Upland-CECERT	22.52	160.04	0.03
18843	Upland-CECERT	24.91	160.04	0.03
18844	Upland-CECERT	24.91	160.05	0.03
18845	Upland-CECERT	25.06	160.06	0.03
18846	Upland-CECERT	27.20	160.06	0.03
18847	Upland-CECERT	30.59	160.07	0.03
18848	Upland-CECERT	33.79	160.08	0.03
18849	Upland-CECERT	36.34	160.09	0.03
18850	Upland-CECERT	38.54	160.09	0.03
18851	Upland-CECERT	40.02	160.11	0.03
18852	Upland-CECERT	40.07		

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 19033 to 19110.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 19189 to 19266.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 19111 to 19188.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Contains data for routes 19267 to 19344.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 19345 to 19422.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 19501 to 19578.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 19423 to 19500.

Table with columns: time (s), route, speed (mph), distance (mi), grade (%). Rows 19579 to 19656.

time [s]	route	speed [mph]	distance [mi]	grade [%]
19657	Upland-CECER2	40.63	168.86	-1.39
19658	Upland-CECER2	42.98	168.87	-1.39
19659	Upland-CECER2	45.50	168.88	-1.39
19660	Upland-CECER2	47.79	168.89	-1.39
19661	Upland-CECER2	49.88	168.91	-1.39
19662	Upland-CECER2	51.79	168.92	-1.39
19663	Upland-CECER2	53.47	168.94	-1.39
19664	Upland-CECER2	55.14	168.95	-1.25
19665	Upland-CECER2	56.54	168.97	-1.25
19666	Upland-CECER2	56.52	168.98	-1.25
19667	Upland-CECER2	56.75	169.00	-1.25
19668	Upland-CECER2	57.83	169.01	-1.25
19669	Upland-CECER2	58.84	169.03	-1.25
19670	Upland-CECER2	60.86	169.05	-1.25
19671	Upland-CECER2	61.65	169.06	-1.84
19672	Upland-CECER2	62.82	169.08	-1.84
19673	Upland-CECER2	63.56	169.10	-1.84
19674	Upland-CECER2	64.49	169.12	-1.84
19675	Upland-CECER2	65.07	169.13	-1.84
19676	Upland-CECER2	65.63	169.15	-1.26
19677	Upland-CECER2	66.22	169.17	-1.26
19678	Upland-CECER2	66.72	169.19	-1.26
19679	Upland-CECER2	66.82	169.21	-1.26
19680	Upland-CECER2	67.02	169.22	-1.26
19681	Upland-CECER2	67.21	169.24	-1.26
19682	Upland-CECER2	67.25	169.26	-1.36
19683	Upland-CECER2	67.04	169.28	-1.36
19684	Upland-CECER2	66.91	169.30	-1.36
19685	Upland-CECER2	67.13	169.32	-1.36
19686	Upland-CECER2	67.30	169.34	-1.36
19687	Upland-CECER2	67.39	169.35	-1.30
19688	Upland-CECER2	67.78	169.37	-1.30
19689	Upland-CECER2	68.12	169.39	-1.30
19690	Upland-CECER2	68.34	169.41	-1.30
19691	Upland-CECER2	68.59	169.43	-1.30
19692	Upland-CECER2	68.86	169.45	-1.30
19693	Upland-CECER2	68.40	169.47	-1.24
19694	Upland-CECER2	68.81	169.49	-1.24
19695	Upland-CECER2	68.95	169.50	-1.24
19696	Upland-CECER2	68.43	169.52	-1.24
19697	Upland-CECER2	67.73	169.54	-1.24
19698	Upland-CECER2	67.82	169.56	-1.10
19699	Upland-CECER2	68.09	169.58	-1.10
19700	Upland-CECER2	67.52	169.60	-1.10
19701	Upland-CECER2	67.05	169.62	-1.10
19702	Upland-CECER2	67.12	169.64	-1.10
19703	Upland-CECER2	67.12	169.65	-1.38
19704	Upland-CECER2	67.39	169.67	-1.38
19705	Upland-CECER2	66.72	169.69	-1.38
19706	Upland-CECER2	66.76	169.71	-1.38
19707	Upland-CECER2	67.34	169.73	-1.38
19708	Upland-CECER2	68.08	169.76	-1.38
19709	Upland-CECER2	68.77	169.78	-1.29
19710	Upland-CECER2	69.20	169.78	-1.29
19711	Upland-CECER2	69.59	169.80	-1.29
19712	Upland-CECER2	69.44	169.82	-1.29
19713	Upland-CECER2	69.27	169.84	-1.29
19714	Upland-CECER2	68.92	169.86	-1.34
19715	Upland-CECER2	68.53	169.88	-1.34
19716	Upland-CECER2	68.25	169.90	-1.34
19717	Upland-CECER2	67.80	169.92	-1.34
19718	Upland-CECER2	66.51	169.93	-1.34
19719	Upland-CECER2	65.86	169.95	-1.21
19720	Upland-CECER2	65.20	169.97	-1.21
19721	Upland-CECER2	64.78	169.99	-1.21
19722	Upland-CECER2	64.38	170.01	-1.21
19723	Upland-CECER2	63.90	170.02	-1.21
19724	Upland-CECER2	63.55	170.04	-1.21
19725	Upland-CECER2	63.41	170.06	-1.25
19726	Upland-CECER2	63.61	170.08	-1.25
19727	Upland-CECER2	63.85	170.09	-1.25
19728	Upland-CECER2	64.20	170.11	-1.25
19729	Upland-CECER2	64.32	170.13	-1.25
19730	Upland-CECER2	64.86	170.15	-1.25
19731	Upland-CECER2	65.42	170.16	-0.41
19732	Upland-CECER2	66.86	170.18	-0.41
19733	Upland-CECER2	66.43	170.20	-0.41
19734	Upland-CECER2	67.16	170.22	-0.41

time [s]	route	speed [mph]	distance [mi]	grade [%]
19813	Upland-CECER2	67.17	171.73	0.89
19814	Upland-CECER2	67.52	171.75	1.01
19815	Upland-CECER2	67.79	171.77	1.01
19816	Upland-CECER2	68.15	171.79	1.01
19817	Upland-CECER2	68.41	171.81	1.01
19818	Upland-CECER2	68.56	171.83	1.01
19819	Upland-CECER2	68.61	171.85	1.01
19820	Upland-CECER2	68.88	171.86	-0.67
19821	Upland-CECER2	69.37	171.88	-0.67
19822	Upland-CECER2	69.27	171.90	-0.67
19823	Upland-CECER2	68.38	171.92	-0.67
19824	Upland-CECER2	68.31	171.94	-0.67
19825	Upland-CECER2	69.06	171.96	4.98
19826	Upland-CECER2	69.85	171.98	4.98
19827	Upland-CECER2	70.46	172.00	4.98
19828	Upland-CECER2	70.82	172.02	4.98
19829	Upland-CECER2	71.19	172.04	4.98
19830	Upland-CECER2	71.75	172.06	-1.18
19831	Upland-CECER2	71.90	172.08	-1.18
19832	Upland-CECER2	71.61	172.10	-1.18
19833	Upland-CECER2	71.58	172.12	-1.18
19834	Upland-CECER2	70.97	172.13	-1.18
19835	Upland-CECER2	70.48	172.15	-4.07
19836	Upland-CECER2	69.92	172.17	-4.07
19837	Upland-CECER2	70.06	172.19	-4.07
19838	Upland-CECER2	70.48	172.21	-4.07
19839	Upland-CECER2	70.89	172.23	-4.07
19840	Upland-CECER2	71.20	172.25	-1.18
19841	Upland-CECER2	71.50	172.27	-1.18
19842	Upland-CECER2	71.79	172.29	-2.18
19843	Upland-CECER2	72.01	172.31	-2.18
19844	Upland-CECER2	71.99	172.33	-2.18
19845	Upland-CECER2	72.04	172.35	-2.18
19846	Upland-CECER2	71.97	172.37	-0.41
19847	Upland-CECER2	71.34	172.39	-0.41
19848	Upland-CECER2	70.60	172.41	-0.41
19849	Upland-CECER2	70.55	172.43	-0.41
19850	Upland-CECER2	70.92	172.45	-0.41
19851	Upland-CECER2	71.29	172.47	0.05
19852	Upland-CECER2	71.24	172.49	0.05
19853	Upland-CECER2	70.91	172.51	0.05
19854	Upland-CECER2	70.13	172.53	0.05
19855	Upland-CECER2	69.78	172.54	0.05
19856	Upland-CECER2	70.17	172.56	0.08
19857	Upland-CECER2	70.53	172.58	0.08
19858	Upland-CECER2	70.83	172.60	0.08
19859	Upland-CECER2	70.89	172.62	0.08
19860	Upland-CECER2	70.60	172.64	0.08
19861	Upland-CECER2	70.35	172.66	0.21
19862	Upland-CECER2	70.43	172.68	0.21
19863	Upland-CECER2	70.49	172.70	0.21
19864	Upland-CECER2	70.54	172.72	0.21
19865	Upland-CECER2	70.57	172.74	0.21
19866	Upland-CECER2	70.60	172.76	-0.04
19867	Upland-CECER2	70.63	172.78	-0.04
19868	Upland-CECER2	70.62	172.80	-0.04
19869	Upland-CECER2	69.95	172.82	-0.04
19870	Upland-CECER2	68.89	172.84	0.04
19871	Upland-CECER2	68.40	172.85	-0.02
19872	Upland-CECER2	68.42	172.87	-0.02
19873	Upland-CECER2	68.02	172.89	-0.02
19874	Upland-CECER2	67.72	172.91	-0.02
19875	Upland-CECER2	67.80	172.93	-0.02
19876	Upland-CECER2	67.37	172.95	-0.02
19877	Upland-CECER2	67.09	172.97	0.30
19878	Upland-CECER2	67.22	172.98	0.30
19879	Upland-CECER2	67.40	173.00	0.30
19880	Upland-CECER2	67.15	173.02	0.30
19881	Upland-CECER2	66.79	173.04	0.30
19882	Upland-CECER2	66.44	173.06	0.66
19883	Upland-CECER2	66.42	173.08	0.66
19884	Upland-CECER2	66.69	173.09	0.66
19885	Upland-CECER2	67.01	173.11	0.66
19886	Upland-CECER2	67.36	173.13	0.66
19887	Upland-CECER2	67.11	173.15	0.66
19888	Upland-CECER2	67.96	173.17	0.45
19889	Upland-CECER2	68.19	173.19	0.45
19890	Upland-CECER2	68.40	173.21	0.45

time [s]	route	speed [mph]	distance [mi]	grade [%]
19735	Upland-CECER2	68.24	170.24	-0.41
19736	Upland-CECER2	69.51	170.26	-0.40
19737	Upland-CECER2	70.75	170.28	-0.40
19738	Upland-CECER2	71.13	170.30	-0.40
19739	Upland-CECER2	71.86	170.32	-0.40
19740	Upland-CECER2	73.23	170.34	-0.40
19741	Upland-CECER2	74.51	170.36	-0.51
19742	Upland-CECER2	75.56	170.38	-0.51
19743	Upland-CECER2	75.56	170.40	-0.51
19744	Upland-CECER2	75.45	170.42	-0.51
19745	Upland-CECER2	75.47	170.44	-0.51
19746	Upland-CECER2	75.21	170.46	-0.79
19747	Upland-CECER2	74.52	170.48	0.79
19748	Upland-CECER2	73.39	170.50	0.79
19749	Upland-CECER2	72.55	170.52	0.79
19750	Upland-CECER2	71.83	170.54	0.79
19751	Upland-CECER2	71.05	170.56	-0.21
19752	Upland-CECER2	69.72	170.58	-0.21
19753	Upland-CECER2	67.62	170.60	-0.21
19754	Upland-CECER2	65.44	170.62	-0.21
19755	Upland-CECER2	64.29	170.63	-0.21
19756	Upland-CECER2	64.52	170.65	0.55
19757	Upland-CECER2	65.22	170.67	0.55
19758	Upland-CECER2	65.79	170.69	0.55
19759	Upland-CECER2	66.36	170.71	0.55
19760	Upland-CECER2	66.86	170.72	0.55
19761	Upland-CECER2	66.27	170.74	0.55
19762	Upland-CECER2	65.88	170.76	0.13
19763	Upland-CECER2	66.20	170.78	0.13
19764	Upland-CECER2	66.34	170.80	0.13
19765	Upland-CECER2	66.61	170.82	0.13
19766	Upland-CECER2	67.14	170.83	0.13
19767	Upland-CECER2	67.82	170.85	0.06
19768	Upland-CECER2	68.18	170.87	0.06
19769	Upland-CECER2	68.69	170.89	0.06
19770	Upland-CECER2	69.17	170.91	0.06
19771	Upland-CECER2	69.61	170.93	0.06
19772	Upland-CECER2	69.57	170.95	0.06
19773	Upland-CECER2	69.81	170.97	-1.02
19774	Upland-CECER2	70.74	170.99	-1.02
19775	Upland-CECER2	71.59	171.01	-1.02
19776	Upland-CECER2	72.28	171.03	-1.02
19777	Upland-CECER2	72.57	171.05	-1.02
19778	Upland-CECER2	72.79	171.07	-0.69
19779	Upland-CECER2	72.94	171.09	-0.69
19780	Upland-CECER2	73.07	171.11	-0.69
19781	Upland-CECER2	72.74	171.13	-0.69
19782	Upland-CECER2	71.87	171.15	-0.69



time (s)	route	speed (mph)	distance (mi)	grade (%)
19969	Upland-CECER2	67.33	174.66	0.47
19970	Upland-CECER2	66.55	174.67	0.47
19971	Upland-CECER2	66.10	174.69	0.47
19972	Upland-CECER2	66.45	174.71	0.47
19973	Upland-CECER2	66.74	174.73	0.47
19974	Upland-CECER2	67.03	174.75	0.47
19975	Upland-CECER2	67.07	174.77	0.33
19976	Upland-CECER2	66.31	174.78	0.33
19977	Upland-CECER2	66.02	174.80	0.33
19978	Upland-CECER2	65.97	174.82	0.33
19979	Upland-CECER2	65.87	174.84	0.33
19980	Upland-CECER2	66.27	174.86	0.60
19981	Upland-CECER2	66.76	174.88	0.60
19982	Upland-CECER2	66.65	174.89	0.60
19983	Upland-CECER2	66.12	174.91	0.60
19984	Upland-CECER2	66.80	174.93	0.60
19985	Upland-CECER2	67.27	174.95	0.60
19986	Upland-CECER2	66.99	174.97	0.53
19987	Upland-CECER2	66.22	174.99	0.53
19988	Upland-CECER2	65.79	175.00	0.53
19989	Upland-CECER2	66.37	175.02	0.53
19990	Upland-CECER2	67.20	175.04	0.53
19991	Upland-CECER2	67.70	175.06	0.63
19992	Upland-CECER2	67.39	175.08	0.63
19993	Upland-CECER2	67.06	175.10	0.63
19994	Upland-CECER2	67.21	175.11	0.63
19995	Upland-CECER2	67.78	175.13	0.63
19996	Upland-CECER2	68.08	175.15	0.51
19997	Upland-CECER2	67.92	175.17	0.51
19998	Upland-CECER2	66.83	175.19	0.51
19999	Upland-CECER2	66.60	175.21	0.51
20000	Upland-CECER2	67.02	175.23	0.51
20001	Upland-CECER2	67.35	175.24	0.51
20002	Upland-CECER2	67.28	175.26	0.79
20003	Upland-CECER2	66.55	175.28	0.79
20004	Upland-CECER2	65.52	175.30	0.79
20005	Upland-CECER2	64.64	175.32	0.79
20006	Upland-CECER2	63.78	175.33	0.79
20007	Upland-CECER2	62.75	175.35	-0.10
20008	Upland-CECER2	61.44	175.37	-0.10
20009	Upland-CECER2	59.91	175.39	-0.10
20010	Upland-CECER2	59.77	175.40	-0.10
20011	Upland-CECER2	60.49	175.42	-0.10
20012	Upland-CECER2	61.54	175.43	-0.10
20013	Upland-CECER2	62.14	175.45	0.98
20014	Upland-CECER2	61.93	175.47	0.98
20015	Upland-CECER2	61.59	175.49	0.98
20016	Upland-CECER2	61.86	175.50	0.98
20017	Upland-CECER2	61.79	175.52	0.98
20018	Upland-CECER2	61.62	175.54	0.98
20019	Upland-CECER2	61.06	175.55	3.15
20020	Upland-CECER2	61.46	175.57	3.15
20021	Upland-CECER2	61.30	175.59	3.15
20022	Upland-CECER2	60.49	175.60	3.15
20023	Upland-CECER2	59.90	175.62	3.15
20024	Upland-CECER2	58.61	175.64	3.15
20025	Upland-CECER2	56.16	175.65	-0.07
20026	Upland-CECER2	55.11	175.67	-0.07
20027	Upland-CECER2	50.44	175.68	-0.07
20028	Upland-CECER2	48.18	175.69	-0.07
20029	Upland-CECER2	46.00	175.71	-0.07
20030	Upland-CECER2	44.62	175.72	-0.07
20031	Upland-CECER2	44.48	175.73	-0.07
20032	Upland-CECER2	45.04	175.74	-0.07
20033	Upland-CECER2	45.86	175.76	0.41
20034	Upland-CECER2	46.69	175.77	0.41
20035	Upland-CECER2	48.34	175.78	0.41
20036	Upland-CECER2	50.20	175.80	0.41
20037	Upland-CECER2	51.59	175.81	0.41
20038	Upland-CECER2	53.64	175.83	0.41
20039	Upland-CECER2	55.27	175.84	0.41
20040	Upland-CECER2	56.58	175.86	0.81
20041	Upland-CECER2	58.04	175.87	0.81
20042	Upland-CECER2	59.37	175.89	0.81
20043	Upland-CECER2	60.45	175.90	0.81
20044	Upland-CECER2	61.05	175.92	0.81
20045	Upland-CECER2	60.51	175.94	0.81
20046	Upland-CECER2	59.94	175.95	0.43

time (s)	route	speed (mph)	distance (mi)	grade (%)
20125	Upland-CECER2	55.93	177.32	-0.24
20126	Upland-CECER2	56.56	177.33	-0.24
20127	Upland-CECER2	57.66	177.35	-0.24
20128	Upland-CECER2	58.81	177.37	-0.32
20129	Upland-CECER2	60.08	177.38	-0.32
20130	Upland-CECER2	60.57	177.40	-0.32
20131	Upland-CECER2	60.48	177.42	-0.32
20132	Upland-CECER2	60.12	177.43	-0.32
20133	Upland-CECER2	59.98	177.45	-0.32
20134	Upland-CECER2	60.38	177.46	0.01
20135	Upland-CECER2	60.83	177.48	0.01
20136	Upland-CECER2	61.63	177.50	0.01
20137	Upland-CECER2	62.36	177.52	0.01
20138	Upland-CECER2	63.41	177.53	0.01
20139	Upland-CECER2	64.19	177.55	-0.04
20140	Upland-CECER2	64.67	177.57	-0.04
20141	Upland-CECER2	65.15	177.59	-0.04
20142	Upland-CECER2	64.67	177.60	-0.04
20143	Upland-CECER2	63.90	177.62	-0.04
20144	Upland-CECER2	63.53	177.64	-0.04
20145	Upland-CECER2	64.01	177.66	-0.18
20146	Upland-CECER2	64.43	177.67	-0.18
20147	Upland-CECER2	64.12	177.69	-0.18
20148	Upland-CECER2	64.50	177.71	-0.18
20149	Upland-CECER2	64.02	177.73	-0.18
20150	Upland-CECER2	63.81	177.75	-0.18
20151	Upland-CECER2	63.58	177.76	-0.45
20152	Upland-CECER2	63.89	177.78	-0.45
20153	Upland-CECER2	63.80	177.80	-0.45
20154	Upland-CECER2	63.21	177.82	-0.45
20155	Upland-CECER2	63.59	177.83	-0.45
20156	Upland-CECER2	64.11	177.85	-0.26
20157	Upland-CECER2	64.21	177.87	-0.26
20158	Upland-CECER2	63.44	177.89	-0.26
20159	Upland-CECER2	62.67	177.90	-0.26
20160	Upland-CECER2	62.70	177.92	-0.26
20161	Upland-CECER2	62.98	177.94	-0.26
20162	Upland-CECER2	63.20	177.95	-0.19
20163	Upland-CECER2	63.38	177.97	-0.19
20164	Upland-CECER2	63.35	177.99	-0.19
20165	Upland-CECER2	63.13	178.01	-0.19
20166	Upland-CECER2	62.35	178.02	-0.19
20167	Upland-CECER2	62.64	178.04	-0.19
20168	Upland-CECER2	63.14	178.06	0.17
20169	Upland-CECER2	63.84	178.08	0.17
20170	Upland-CECER2	64.66	178.09	0.17
20171	Upland-CECER2	65.34	178.11	0.17
20172	Upland-CECER2	66.00	178.13	0.17
20173	Upland-CECER2	66.61	178.15	0.17
20174	Upland-CECER2	66.96	178.17	0.15
20175	Upland-CECER2	67.45	178.19	0.15
20176	Upland-CECER2	67.99	178.20	0.15
20177	Upland-CECER2	67.92	178.22	0.15
20178	Upland-CECER2	67.29	178.24	0.15
20179	Upland-CECER2	66.45	178.26	0.11
20180	Upland-CECER2	65.74	178.28	-0.11
20181	Upland-CECER2	64.30	178.29	-0.11
20182	Upland-CECER2	62.45	178.31	-0.11
20183	Upland-CECER2	60.27	178.33	-0.11
20184	Upland-CECER2	59.34	178.35	-0.11
20185	Upland-CECER2	58.69	178.36	-0.25
20186	Upland-CECER2	57.97	178.38	-0.25
20187	Upland-CECER2	57.31	178.39	-0.25
20188	Upland-CECER2	56.78	178.41	-0.25
20189	Upland-CECER2	56.02	178.42	-0.25
20190	Upland-CECER2	55.47	178.44	-0.25
20191	Upland-CECER2	54.83	178.45	-0.16
20192	Upland-CECER2	54.88	178.47	-0.16
20193	Upland-CECER2	55.10	178.48	-0.16
20194	Upland-CECER2	54.55	178.50	-0.16
20195	Upland-CECER2	54.80	178.51	-0.16
20196	Upland-CECER2	54.51	178.53	-0.16
20197	Upland-CECER2	54.94	178.54	-0.16
20198	Upland-CECER2	55.58	178.56	0.79
20199	Upland-CECER2	55.74	178.58	0.79
20200	Upland-CECER2	55.58	178.59	0.79
20201	Upland-CECER2	56.46	178.61	0.79
20202	Upland-CECER2	57.18	178.62	0.79

time (s)	route	speed (mph)	distance (mi)	grade (%)
20047	Upland-CECER2	60.16	175.97	0.43
20048	Upland-CECER2	60.04	175.99	0.43
20049	Upland-CECER2	59.29	176.00	0.43
20050	Upland-CECER2	58.66	176.02	0.43
20051	Upland-CECER2	58.46	176.04	0.43
20052	Upland-CECER2	59.09	176.05	0.36
20053	Upland-CECER2	59.82	176.07	0.36
20054	Upland-CECER2	60.41	176.09	0.36
20055	Upland-CECER2	61.11	176.10	0.36
20056	Upland-CECER2	61.61	176.12	0.36
20057	Upland-CECER2	62.24	176.14	0.36
20058	Upland-CECER2	62.80	176.15	0.08
20059	Upland-CECER2	63.49	176.17	0.08
20060	Upland-CECER2	64.43	176.19	0.08
20061	Upland-CECER2	65.08	176.21	0.08
20062	Upland-CECER2	65.61	176.22	0.08
20063	Upland-CECER2	65.38	176.24	0.08
20064	Upland-CECER2	64.46	176.26	0.25
20065	Upland-CECER2	63.75	176.28	0.25
20066	Upland-CECER2	63.95	176.30	0.25
20067	Upland-CECER2	64.29	176.31	0.25
20068	Upland-CECER2	64.85	176.33	0.25
20069	Upland-CECER2	64.84	176.35	0.25
20070	Upland-CECER2	64.60	176.37	2.07
20071	Upland-CECER2	63.34	176.38	2.07
20072	Upland-CECER2	63.56	176.40	2.07
20073	Upland-CECER2	64.22	176.42	2.07
20074	Upland-CECER2	64.82	176.44	2.07
20075	Upland-CECER2	64.93	176.45	1.01
20076	Upland-CECER2	64.90	176.47	1.01
20077	Upland-CECER2	64.80	176.49	1.01
20078	Upland-CECER2	64.55	176.51	1.01
20079	Upland-CECER2	64.99	176.53	1.01
20080	Upland-CECER2	65.30	176.54	1.01
20081	Upland-CECER2	65.50	176.56	0.89
20082	Upland-CECER2	65.69	176.58	-0.89
20083	Upland-CECER2	65.97	176.60	-0.89
20084	Upland-CECER2	66.26	176.62	-0.89
20085	Upland-CECER2	66.80	176.63	-0.89
20086	Upland-CECER2	67.29	176.65	-1.37
20087	Upland-CECER2	67.66	176.67	-1.37
20088	Upland-CECER2	67.98	176.69	-1.37
20089	Upland-CECER2	68.06	176.71	-1.37
20090	Upland-CECER2	68.29	176.73	-1.37
20091	Upland-CECER2	68.42	176.75	-1.37
20092	Upland-CECER2	68.27	176.77	-0.19
20093	Upland-CECER2	67.51	176.78	-0.19
20094	Upland-CECER2	66.76	176.80	-0.19

time (s)	route	speed (mph)	distance (mi)	grade (%)
20281	Upland-CECET	5.38	179.90	-0.50
20282	Upland-CECET	2.60	179.91	-0.50
20283	Upland-CECET	1.24	179.91	-0.50
20284	Upland-CECET	2.08	179.91	-0.50
20285	Upland-CECET	3.55	179.91	-0.50
20286	Upland-CECET	5.01	179.91	-0.50
20287	Upland-CECET	5.91	179.91	-0.50
20288	Upland-CECET	7.54	179.91	-0.50
20289	Upland-CECET	8.11	179.91	-0.50
20290	Upland-CECET	7.49	179.92	-0.50
20291	Upland-CECET	6.58	179.92	-0.50
20292	Upland-CECET	6.38	179.92	-0.50
20293	Upland-CECET	6.79	179.92	-0.50
20294	Upland-CECET	9.27	179.92	-0.50
20295	Upland-CECET	11.55	179.93	-0.50
20296	Upland-CECET	11.79	179.93	-0.50
20297	Upland-CECET	11.32	179.93	-0.50
20298	Upland-CECET	11.30	179.94	-0.50
20299	Upland-CECET	10.27	179.94	-0.50
20300	Upland-CECET	10.25	179.94	-0.50
20301	Upland-CECET	9.59	179.95	-0.50
20302	Upland-CECET	9.09	179.95	-0.50
20303	Upland-CECET	8.18	179.95	-0.81
20304	Upland-CECET	8.83	179.95	-0.81
20305	Upland-CECET	7.95	179.96	-0.81
20306	Upland-CECET	7.89	179.96	-0.81
20307	Upland-CECET	7.80	179.96	-0.81
20308	Upland-CECET	7.73	179.96	-0.81
20309	Upland-CECET	7.66	179.96	-0.81
20310	Upland-CECET	7.62	179.97	-0.81
20311	Upland-CECET	7.55	179.97	-0.81
20312	Upland-CECET	7.50	179.97	-0.81
20313	Upland-CECET	7.46	179.97	-0.81
20314	Upland-CECET	7.40	179.97	-0.81
20315	Upland-CECET	7.56	179.98	-0.81
20316	Upland-CECET	8.20	179.98	-0.81
20317	Upland-CECET	8.41	179.98	-0.81
20318	Upland-CECET	8.20	179.98	-0.81
20319	Upland-CECET	8.15	179.99	-0.81
20320	Upland-CECET	7.75	179.99	-0.81
20321	Upland-CECET	6.38	179.99	-0.81
20322	Upland-CECET	4.76	179.99	-0.81
20323	Upland-CECET	3.74	179.99	-0.81
20324	Upland-CECET	3.27	179.99	-0.81
20325	Upland-CECET	2.51	179.99	-0.81
20326	Upland-CECET	1.50	179.99	-0.81
20327	Upland-CECET	0.35	179.99	-0.81
20328	Upland-CECET	0.34	179.99	-0.81
20329	Upland-CECET	1.38	179.99	-0.81
20330	Upland-CECET	1.30	179.99	-0.81
20331	Upland-CECET	0.33	179.99	-0.81
20332	Upland-CECET	0.00	179.99	-0.81
20333	Upland-CECET	0.00	179.99	-0.81
20334	Upland-CECET	0.00	179.99	-0.81
20335	Upland-CECET	0.00	179.99	-0.81
20336	Upland-CECET	0.00	179.99	-0.81
20337	Upland-CECET	0.00	179.99	-0.81
20338	Upland-CECET	0.00	179.99	-0.81
20339	Upland-CECET	0.00	179.99	-0.81
20340	Upland-CECET	0.00	179.99	-0.81
20341	Upland-CECET	0.00	179.99	-0.81
20342	Upland-CECET	0.00	179.99	-0.81
20343	Upland-CECET	0.00	179.99	-0.81
20344	Upland-CECET	0.00	179.99	-0.81
20345	Upland-CECET	0.00	179.99	-0.81
20346	Upland-CECET	0.90	179.99	-0.81
20347	Upland-CECET	0.98	179.99	-0.81
20348	Upland-CECET	0.81	180.00	-0.81
20349	Upland-CECET	0.00	180.00	-0.81
20350	Upland-CECET	0.00	180.00	-0.81
20351	Upland-CECET	0.00	180.00	-0.81
20352	Upland-CECET	0.00	180.00	-0.81
20353	Upland-CECET	0.00	180.00	-0.81
20354	Upland-CECET	0.00	180.00	-0.81
20355	Upland-CECET	0.00	180.00	-0.81
20356	Upland-CECET	0.00	180.00	-0.81
20357	Upland-CECET	0.00	180.00	-0.81
20358	Upland-CECET	0.00	180.00	-0.81

time (s)	route	speed (mph)	distance (mi)	grade (%)
20437	Upland-CECET	51.00	180.42	3.74
20438	Upland-CECET	47.05	180.44	3.74
20439	Upland-CECET	43.27	180.45	3.74
20440	Upland-CECET	40.68	180.46	3.75
20441	Upland-CECET	38.40	180.47	-6.75
20442	Upland-CECET	36.56	180.48	-6.75
20443	Upland-CECET	35.85	180.49	-6.75
20444	Upland-CECET	36.08	180.50	-6.75
20445	Upland-CECET	37.51	180.51	-6.75
20446	Upland-CECET	39.82	180.52	-6.75
20447	Upland-CECET	42.11	180.53	-6.75
20448	Upland-CECET	44.64	180.55	-6.75
20449	Upland-CECET	46.59	180.56	-1.44
20450	Upland-CECET	46.12	180.57	-1.44
20451	Upland-CECET	45.00	180.58	-1.44
20452	Upland-CECET	42.80	180.59	-1.44
20453	Upland-CECET	40.41	180.61	-1.44
20454	Upland-CECET	37.95	180.62	-1.44
20455	Upland-CECET	36.25	180.63	-1.44
20456	Upland-CECET	36.42	180.64	-1.44
20457	Upland-CECET	36.81	180.65	-1.44
20458	Upland-CECET	36.44	180.66	-1.57
20459	Upland-CECET	37.27	180.67	-1.57
20460	Upland-CECET	38.73	180.68	-1.57
20461	Upland-CECET	39.73	180.69	-1.57
20462	Upland-CECET	39.25	180.70	-1.57
20463	Upland-CECET	38.06	180.71	-1.57
20464	Upland-CECET	37.12	180.72	-1.57
20465	Upland-CECET	36.82	180.73	-1.57
20466	Upland-CECET	37.65	180.74	-1.57
20467	Upland-CECET	38.17	180.75	-1.55
20468	Upland-CECET	38.16	180.76	-1.55
20469	Upland-CECET	37.75	180.77	-1.55
20470	Upland-CECET	37.45	180.78	-1.55
20471	Upland-CECET	37.00	180.79	-1.55
20472	Upland-CECET	36.59	180.80	-1.55
20473	Upland-CECET	35.56	180.81	-1.55
20474	Upland-CECET	34.89	180.82	-1.55
20475	Upland-CECET	33.66	180.83	-1.55
20476	Upland-CECET	33.13	180.84	-1.55
20477	Upland-CECET	32.71	180.85	-1.55
20478	Upland-CECET	32.13	180.86	-1.26
20479	Upland-CECET	30.94	180.87	-1.26
20480	Upland-CECET	29.18	180.87	-1.26
20481	Upland-CECET	27.52	180.88	-1.26
20482	Upland-CECET	25.47	180.89	-1.26
20483	Upland-CECET	23.51	180.90	-1.26
20484	Upland-CECET	21.50	180.90	-1.26
20485	Upland-CECET	19.40	180.91	-1.26
20486	Upland-CECET	17.11	180.91	-1.26
20487	Upland-CECET	14.50	180.92	-1.26
20488	Upland-CECET	12.61	180.92	-1.26
20489	Upland-CECET	11.44	180.92	-1.26
20490	Upland-CECET	10.89	180.92	-1.26
20491	Upland-CECET	9.59	180.93	-1.26
20492	Upland-CECET	7.70	180.93	-1.26
20493	Upland-CECET	5.83	180.93	-1.26
20494	Upland-CECET	4.61	180.93	-1.26
20495	Upland-CECET	3.67	180.93	-1.26
20496	Upland-CECET	2.90	180.93	-1.26
20497	Upland-CECET	2.15	180.93	-1.26
20498	Upland-CECET	1.56	180.94	-1.26
20499	Upland-CECET	0.96	180.94	-1.26
20500	Upland-CECET	0.00	180.94	-1.26
20501	Upland-CECET	0.00	180.94	-1.26
20502	Upland-CECET	0.00	180.94	-1.26
20503	Upland-CECET	0.78	180.94	-1.26
20504	Upland-CECET	0.00	180.94	-1.26
20505	Upland-CECET	0.00	180.94	-1.26
20506	Upland-CECET	0.00	180.94	-1.26
20507	Upland-CECET	0.51	180.94	-1.26
20508	Upland-CECET	1.16	180.94	-1.26
20509	Upland-CECET	0.70	180.94	-1.26
20510	Upland-CECET	0.00	180.94	-1.26
20511	Upland-CECET	0.00	180.94	-1.26
20512	Upland-CECET	0.76	180.94	-1.26
20513	Upland-CECET	0.00	180.94	-1.26
20514	Upland-CECET	0.96	180.94	-1.26

time (s)	route	speed (mph)	distance (mi)	grade (%)
20359	Upland-CECET	0.00	180.00	-0.81
20360	Upland-CECET	0.00	180.00	-0.81
20361	Upland-CECET	0.00	180.00	-0.81
20362	Upland-CECET	0.00	180.00	-0.81
20363	Upland-CECET	0.00	180.00	-0.81
20364	Upland-CECET	0.00	180.00	-0.81
20365	Upland-CECET	0.14	180.00	-0.81
20366	Upland-CECET	1.23	180.00	-0.81
20367	Upland-CECET	1.52	180.00	-0.81
20368	Upland-CECET	2.48	180.00	-0.81
20369	Upland-CECET	4.81	180.00	-0.81
20370	Upland-CECET	7.36	180.00	-0.81
20371	Upland-CECET	7.79	180.00	-0.81
20372	Upland-CECET	8.07	180.00	-0.81
20373	Upland-CECET	8.50	180.01	-0.81
20374	Upland-CECET	8.08	180.01	-0.81
20375	Upland-CECET	8.82	180.01	-0.81
20376	Upland-CECET	10.06	180.01	-0.81
20377	Upland-CECET	11.67	180.02	-0.81
20378	Upland-CECET	12.87	180.02	-0.81
20379	Upland-CECET	13.86	180.02	-0.81
20380	Upland-CECET	13.59	180.03	-0.81
20381	Upland-CECET	12.69	180.03	-0.81
20382	Upland-CECET	12.25	180.04	-0.81
20383	Upland-CECET	13.55	180.04	-0.81
20384	Upland-CECET	15.28	180.04	-0.81
20385	Upland-CECET	17.43	180.05	-0.81
20386	Upland-CECET	19.53	180.05	-1.03
20387	Upland-CECET	20.11	180.06	-1.03
20388	Upland-CECET	18.90	180.06	-1.03
20389	Upland-CECET	17.58	180.07	-1.03
20390	Upland-CECET	15.98	180.07	-1.03
20391	Upland-CECET	14.61	180.08	-1.03
20392	Upland-CECET	14.09	180.08	-1.03
20393	Upland-CECET	14.57	180.09	-1.03
20394	Upland-CECET	14.53	180.09	-1.03
20395	Upland-CECET	14.81	180.09	-1.03
20396	Upland-CECET	14.26	180.10	-1.03
20397	Upland-CECET	13.68	180.10	-1.03
20398	Upland-CECET	13.45	180.10	-1.03
20399	Upland-CECET	13.36	180.11	-1.03
20400	Upland-CECET	13.27	180.11	-1.03
20401	Upland-CECET	12.90	180.12	-1.03
20402	Upland-CECET	11.57	180.12	-1.03
20403	Upland-CECET	9.02	180.12	-1.03
20404	Upland-CECET	7.17	180.12	-1.03
20405	Upland-CECET	7.06	180.12	-1.03
20406	Upland-CECET	6.70	180.13	-1.03
20407	Upland-CECET	11.28	180.13	-1.03
20408	Upland-CECET	13.13	180.13	-1.03
20409	Upland-CECET	13.25	180.14	-1.03
20410	Upland-CECET	11.71	180.14	-1.03
20411	Upland-CECET	9.15	180.14	-1.03
20412	Upland-CECET	7.95	180.15	-1.03
20413	Upland-CECET			

time [s]	route	speed [mph]	distance [mi]	grade [%]
20593	Upland-CECER7	6.26	181.52	-1.03
20594	Upland-CECER7	7.58	181.52	-1.03
20595	Upland-CECER7	10.76	181.53	-1.03
20596	Upland-CECER7	11.17	181.53	-1.03
20597	Upland-CECER7	12.53	181.53	-1.03
20598	Upland-CECER7	15.92	181.54	-1.03
20599	Upland-CECER7	19.84	181.54	-1.03
20600	Upland-CECER7	23.75	181.55	-1.03
20601	Upland-CECER7	27.09	181.56	-1.00
20602	Upland-CECER7	29.98	181.56	-1.00
20603	Upland-CECER7	32.42	181.57	-1.00
20604	Upland-CECER7	33.96	181.58	-1.00
20605	Upland-CECER7	35.51	181.59	-1.00
20606	Upland-CECER7	36.77	181.60	-1.00
20607	Upland-CECER7	38.42	181.61	-1.00
20608	Upland-CECER7	40.50	181.62	-1.00
20609	Upland-CECER7	43.12	181.64	-1.00
20610	Upland-CECER7	45.60	181.65	-1.00
20611	Upland-CECER7	47.42	181.66	-0.77
20612	Upland-CECER7	48.55	181.68	-0.77
20613	Upland-CECER7	49.20	181.69	-0.77
20614	Upland-CECER7	49.34	181.70	-0.77
20615	Upland-CECER7	48.68	181.72	-0.77
20616	Upland-CECER7	48.27	181.73	-0.77
20617	Upland-CECER7	47.75	181.74	-0.77
20618	Upland-CECER7	46.88	181.75	-0.78
20619	Upland-CECER7	45.06	181.77	-0.78
20620	Upland-CECER7	42.17	181.78	-0.78
20621	Upland-CECER7	39.77	181.79	-0.78
20622	Upland-CECER7	36.54	181.80	-0.78
20623	Upland-CECER7	33.38	181.81	-0.78
20624	Upland-CECER7	30.33	181.82	-0.78
20625	Upland-CECER7	28.31	181.83	-0.78
20626	Upland-CECER7	26.48	181.83	-0.78
20627	Upland-CECER7	24.63	181.84	-0.78
20628	Upland-CECER7	22.83	181.85	-0.78
20629	Upland-CECER7	21.26	181.85	-1.12
20630	Upland-CECER7	19.74	181.86	-1.12
20631	Upland-CECER7	18.24	181.86	-1.12
20632	Upland-CECER7	16.88	181.87	-1.12
20633	Upland-CECER7	15.64	181.87	-1.12
20634	Upland-CECER7	14.53	181.87	-1.12
20635	Upland-CECER7	12.79	181.88	-1.12
20636	Upland-CECER7	11.45	181.88	-1.12
20637	Upland-CECER7	9.97	181.88	-1.12
20638	Upland-CECER7	8.33	181.89	-1.12
20639	Upland-CECER7	7.15	181.89	-1.12
20640	Upland-CECER7	6.35	181.89	-1.12
20641	Upland-CECER7	5.64	181.89	-1.12
20642	Upland-CECER7	5.21	181.89	-1.12
20643	Upland-CECER7	4.72	181.89	-1.12
20644	Upland-CECER7	4.28	181.90	-1.12
20645	Upland-CECER7	3.81	181.90	-1.12
20646	Upland-CECER7	3.29	181.90	-1.12
20647	Upland-CECER7	2.73	181.90	-1.12
20648	Upland-CECER7	2.21	181.90	-1.12
20649	Upland-CECER7	1.66	181.90	-1.12
20650	Upland-CECER7	1.09	181.90	-1.12
20651	Upland-CECER7	0.54	181.90	-1.12
20652	Upland-CECER7	0.00	181.90	-1.12
20653	Upland-CECER7	1.65	181.90	-1.12
20654	Upland-CECER7	3.04	181.90	-1.12
20655	Upland-CECER7	3.38	181.90	-1.12
20656	Upland-CECER7	3.06	181.90	-1.12
20657	Upland-CECER7	2.93	181.90	-1.12
20658	Upland-CECER7	2.83	181.90	-1.12
20659	Upland-CECER7	2.66	181.91	-1.12
20660	Upland-CECER7	2.43	181.91	-1.12
20661	Upland-CECER7	2.01	181.91	-1.12
20662	Upland-CECER7	1.35	181.91	-1.12
20663	Upland-CECER7	0.49	181.91	-1.12
20664	Upland-CECER7	0.00	181.91	-1.12
20665	Upland-CECER7	0.00	181.91	-1.12
20666	Upland-CECER7	0.44	181.91	-1.12
20667	Upland-CECER7	2.32	181.91	-1.12
20668	Upland-CECER7	4.52	181.91	-1.12
20669	Upland-CECER7	7.12	181.91	-1.12
20670	Upland-CECER7	8.87	181.91	-1.12

time [s]	route	speed [mph]	distance [mi]	grade [%]
20749	Upland-CECER7	7.98	182.21	-4.41
20750	Upland-CECER7	8.81	182.21	-4.41
20751	Upland-CECER7	8.51	182.21	-4.41
20752	Upland-CECER7	8.16	182.22	-4.41
20753	Upland-CECER7	7.78	182.22	-4.41
20754	Upland-CECER7	7.15	182.22	-4.41
20755	Upland-CECER7	5.22	182.22	-4.41
20756	Upland-CECER7	3.82	182.22	-4.41
20757	Upland-CECER7	2.31	182.22	-4.41
20758	Upland-CECER7	3.10	182.22	-4.41
20759	Upland-CECER7	4.97	182.23	-4.41
20760	Upland-CECER7	6.47	182.23	-4.41
20761	Upland-CECER7	6.02	182.23	-4.41
20762	Upland-CECER7	3.65	182.23	-4.41
20763	Upland-CECER7	1.42	182.23	-4.41
20764	Upland-CECER7	3.47	182.23	-4.41
20765	Upland-CECER7	8.15	182.23	-4.41
20766	Upland-CECER7	12.74	182.24	-4.41
20767	Upland-CECER7	16.68	182.24	-4.41
20768	Upland-CECER7	20.93	182.25	-0.68
20769	Upland-CECER7	24.63	182.25	-0.68
20770	Upland-CECER7	26.99	182.26	-0.68
20771	Upland-CECER7	26.54	182.27	-0.68
20772	Upland-CECER7	25.62	182.28	-0.68
20773	Upland-CECER7	23.15	182.28	-0.68
20774	Upland-CECER7	21.30	182.29	-0.68
20775	Upland-CECER7	20.66	182.29	-0.68
20776	Upland-CECER7	19.11	182.30	-0.68
20777	Upland-CECER7	17.26	182.30	-0.68
20778	Upland-CECER7	14.98	182.31	-0.68
20779	Upland-CECER7	12.52	182.31	-0.68
20780	Upland-CECER7	9.94	182.31	-0.68
20781	Upland-CECER7	6.36	182.32	-0.68
20782	Upland-CECER7	3.28	182.32	-0.68
20783	Upland-CECER7	0.72	182.32	-0.68
20784	Upland-CECER7	0.00	182.32	-0.68
20785	Upland-CECER7	0.00	182.32	-0.68
20786	Upland-CECER7	0.00	182.32	-0.68
20787	Upland-CECER7	0.00	182.32	-0.68
20788	Upland-CECER7	0.00	182.32	-0.68
20789	Upland-CECER7	0.00	182.32	-0.68
20790	Upland-CECER7	0.00	182.32	-0.68
20791	Upland-CECER7	0.00	182.32	-0.68
20792	Upland-CECER7	0.00	182.32	-0.68
20793	Upland-CECER7	0.00	182.32	-0.68
20794	Upland-CECER7	0.00	182.32	-0.68
20795	Upland-CECER7	0.00	182.32	-0.68
20796	Upland-CECER7	0.00	182.32	-0.68
20797	Upland-CECER7	0.00	182.32	-0.68
20798	Upland-CECER7	0.00	182.32	-0.68
20799	Upland-CECER7	0.00	182.32	-0.68
20800	Upland-CECER7	0.00	182.32	-0.68
20801	Upland-CECER7	0.00	182.32	-0.68
20802	Upland-CECER7	0.00	182.32	-0.68
20803	Upland-CECER7	0.00	182.32	-0.68
20804	Upland-CECER7	0.00	182.32	-0.68
20805	Upland-CECER7	0.00	182.32	-0.68
20806	Upland-CECER7	0.00	182.32	-0.68
20807	Upland-CECER7	0.00	182.32	-0.68
20808	Upland-CECER7	0.00	182.32	-0.68
20809	Upland-CECER7	0.00	182.32	-0.68
20810	Upland-CECER7	0.00	182.32	-0.68
20811	Upland-CECER7	0.00	182.32	-0.68
20812	Upland-CECER7	0.00	182.32	-0.68
20813	Upland-CECER7	0.58	182.32	-0.68
20814	Upland-CECER7	2.23	182.32	-0.68
20815	Upland-CECER7	4.86	182.32	-0.68
20816	Upland-CECER7	7.86	182.32	-0.68
20817	Upland-CECER7	10.42	182.32	-0.68
20818	Upland-CECER7	9.36	182.33	-0.68
20819	Upland-CECER7	7.48	182.33	-0.68
20820	Upland-CECER7	5.52	182.33	-0.68
20821	Upland-CECER7	3.72	182.33	-0.68
20822	Upland-CECER7	0.57	182.33	-0.68
20823	Upland-CECER7	2.87	182.33	-0.68
20824	Upland-CECER7	6.78	182.33	-0.68
20825	Upland-CECER7	8.49	182.34	-0.68
20826	Upland-CECER7	8.99	182.34	-0.68

time [s]	route	speed [mph]	distance [mi]	grade [%]
20671	Upland-CECER7	12.25	181.92	-1.12
20672	Upland-CECER7	15.49	181.92	-1.12
20673	Upland-CECER7	18.88	181.93	-1.12
20674	Upland-CECER7	21.70	181.93	-1.12
20675	Upland-CECER7	24.39	181.94	-1.12
20676	Upland-CECER7	25.73	181.95	-1.12
20677	Upland-CECER7	26.50	181.95	-1.96
20678	Upland-CECER7	27.82	181.96	-1.96
20679	Upland-CECER7	29.84	181.97	-1.96
20680	Upland-CECER7	31.87	181.98	-1.96
20681	Upland-CECER7	32.90	181.99	-1.96
20682	Upland-CECER7	32.95	182.00	-1.96
20683	Upland-CECER7	34.05	182.01	-1.96
20684	Upland-CECER7	35.40	182.01	-1.96
20685	Upland-CECER7	35.38	182.02	-1.96
20686	Upland-CECER7	35.47	182.03	-1.96
20687	Upland-CECER7	35.88	182.04	-1.96
20688	Upland-CECER7	35.91	182.05	-4.88
20689	Upland-CECER7	35.61	182.06	-4.88
20690	Upland-CECER7	35.39	182.07	-4.88
20691	Upland-CECER7	35.25	182.08	-4.88
20692	Upland-CECER7	34.95	182.09	-4.88
20693	Upland-CECER7	34.52	182.10	-4.88
20694	Upland-CECER7	34.02	182.11	-4.88
20695	Upland-CECER7	33.55	182.12	-4.88
20696	Upland-CECER7	33.03	182.13	-4.88
20697	Upland-CECER7	32.44	182.14	-4.88
20698	Upland-CECER7	31.88	182.15	-4.88
20699	Upland-CECER7	31.25	182.16	-4.41
20700	Upland-CECER7	30.15	182.16	-4.41
20701	Upland-CECER7	28.17	182.17	-4.41
20702	Upland-CECER7	26.48	182.18	-4.41
20703	Upland-CECER7	24.10	182.19	-4.41
20704	Upland-CECER7	19.87	182.19	-4.41
20705	Upland-CECER7	15.05	182.20	-4.41
20706	Upland-CECER7	9.86	182.20	-4.41
20707	Upland-CECER7	5.00	182.20	-4.41
20708	Upland-CECER7	1.56	182.20	-4.41
20709	Upland-CECER7	0.00	182.20	-4.41
20710	Upland-CECER7	0.00	182.20	-4.41
20711	Upland-CECER7	0.00	182.20	-4.41
20712	Upland-CECER7	0.00	182.20	-4.41
20713	Upland-CECER7	0.00	182.20	-4.41
20714	Upland-CECER7	0.00	182.20	-4.41
20715	Upland-CECER7	0.00	182.20	-4.41
20716	Upland-CECER7	0.00	182.20	-4.41
20717	Upland-CECER7	0.00	182.20	-4.41
20718	Upland-CECER7	1.83	182.20	-4.41
20719	Upland-CECER7	3.63	182.20	-4.41
20720	Upland-CECER7	3.69	182.20	

time (s)	route	speed (mph)	distance (mi)	grade (%)
29005	Upland-CECERT	0.00	182.38	-1.11
29006	Upland-CECERT	0.00	182.38	-1.11
29007	Upland-CECERT	0.00	182.38	-1.11
29008	Upland-CECERT	0.00	182.38	-1.11
29009	Upland-CECERT	0.00	182.38	-1.11
29010	Upland-CECERT	0.00	182.38	-1.11
29011	Upland-CECERT	0.00	182.38	-1.11
29012	Upland-CECERT	0.00	182.38	-1.11
29013	Upland-CECERT	0.00	182.38	-1.11
29014	Upland-CECERT	0.00	182.38	-1.11
29015	Upland-CECERT	0.00	182.38	-1.11
29016	Upland-CECERT	0.00	182.38	-1.11
29017	Upland-CECERT	0.00	182.38	-1.11
29018	Upland-CECERT	0.00	182.38	-1.11
29019	Upland-CECERT	0.00	182.38	-1.11
29020	Upland-CECERT	0.00	182.38	-1.11
29021	Upland-CECERT	0.00	182.38	-1.11
29022	Upland-CECERT	0.00	182.38	-1.11
29023	Upland-CECERT	0.00	182.38	-1.11
29024	Upland-CECERT	0.00	182.38	-1.11
29025	Upland-CECERT	0.00	182.38	-1.11
29026	Upland-CECERT	0.00	182.38	-1.11
29027	Upland-CECERT	0.00	182.38	-1.11
29028	Upland-CECERT	0.00	182.38	-1.11
29029	Upland-CECERT	0.00	182.38	-1.11
29030	Upland-CECERT	0.00	182.38	-1.11
29031	Upland-CECERT	0.00	182.38	-1.11
29032	Upland-CECERT	0.00	182.38	-1.11
29033	Upland-CECERT	0.00	182.38	-1.11
29034	Upland-CECERT	0.00	182.38	-1.11
29035	Upland-CECERT	0.00	182.38	-1.11
29036	Upland-CECERT	0.00	182.38	-1.11
29037	Upland-CECERT	0.00	182.38	-1.11
29038	Upland-CECERT	0.00	182.38	-1.11
29039	Upland-CECERT	0.00	182.38	-1.11
29040	Upland-CECERT	0.00	182.38	-1.11
29041	Upland-CECERT	0.00	182.38	-1.11
29042	Upland-CECERT	0.00	182.38	-1.11
29043	Upland-CECERT	0.00	182.38	-1.11
29044	Upland-CECERT	0.00	182.38	-1.11
29045	Upland-CECERT	0.00	182.38	-1.11
29046	Upland-CECERT	0.00	182.38	-1.11
29047	Upland-CECERT	0.00	182.38	-1.11
29048	Upland-CECERT	0.00	182.38	-1.11
29049	Upland-CECERT	0.00	182.38	-1.11
29050	Upland-CECERT	0.14	182.38	-1.11
29051	Upland-CECERT	1.57	182.38	-1.11
29052	Upland-CECERT	4.10	182.38	-1.11
29053	Upland-CECERT	6.37	182.38	-1.11
29054	Upland-CECERT	11.7	182.39	-1.11
29055	Upland-CECERT	9.80	182.39	-1.11
29056	Upland-CECERT	10.61	182.39	-1.11
29057	Upland-CECERT	10.89	182.40	-1.11
29058	Upland-CECERT	10.36	182.40	-1.11
29059	Upland-CECERT	9.63	182.40	-1.11
29060	Upland-CECERT	11.45	182.40	-1.11
29061	Upland-CECERT	14.28	182.41	-1.11
29062	Upland-CECERT	15.55	182.41	-1.11
29063	Upland-CECERT	15.80	182.42	-1.11
29064	Upland-CECERT	15.13	182.42	-1.11
29065	Upland-CECERT	12.95	182.42	-1.11
29066	Upland-CECERT	9.61	182.43	-1.11
29067	Upland-CECERT	5.16	182.43	-1.11
29068	Upland-CECERT	4.65	182.43	-1.11
29069	Upland-CECERT	7.39	182.43	-1.11
29070	Upland-CECERT	10.72	182.43	-1.11
29071	Upland-CECERT	15.58	182.44	-1.11
29072	Upland-CECERT	20.74	182.44	-1.11
29073	Upland-CECERT	26.42	182.45	-1.11
29074	Upland-CECERT	31.44	182.46	-1.81
29075	Upland-CECERT	35.32	182.47	-1.81
29076	Upland-CECERT	39.36	182.48	-1.81
29077	Upland-CECERT	42.84	182.49	-1.81
29078	Upland-CECERT	45.08	182.51	-1.81
29079	Upland-CECERT	45.88	182.52	-1.81
29080	Upland-CECERT	48.65	182.53	-1.81
29081	Upland-CECERT	51.50	182.55	-1.81
29082	Upland-CECERT	51.85	182.56	-2.81

time (s)	route	speed (mph)	distance (mi)	grade (%)
21061	Upland-CECERT	61.49	183.76	-0.50
21062	Upland-CECERT	60.77	183.77	-0.50
21063	Upland-CECERT	60.57	183.79	-0.50
21064	Upland-CECERT	60.51	183.81	-0.50
21065	Upland-CECERT	60.49	183.82	-0.50
21066	Upland-CECERT	59.84	183.84	-0.50
21067	Upland-CECERT	59.20	183.86	-0.40
21068	Upland-CECERT	58.95	183.87	-0.40
21069	Upland-CECERT	58.13	183.89	-0.40
21070	Upland-CECERT	57.36	183.90	-0.40
21071	Upland-CECERT	56.68	183.92	-0.40
21072	Upland-CECERT	56.24	183.94	-0.40
21073	Upland-CECERT	56.59	183.95	-0.65
21074	Upland-CECERT	56.53	183.97	-0.65
21075	Upland-CECERT	55.68	183.98	-0.65
21076	Upland-CECERT	55.02	184.00	-0.65
21077	Upland-CECERT	54.67	184.01	-0.65
21078	Upland-CECERT	54.73	184.03	-0.65
21079	Upland-CECERT	54.30	184.04	-0.65
21080	Upland-CECERT	54.09	184.06	-0.55
21081	Upland-CECERT	54.45	184.07	-0.55
21082	Upland-CECERT	54.79	184.09	-0.55
21083	Upland-CECERT	55.17	184.10	-0.55
21084	Upland-CECERT	55.53	184.12	-0.55
21085	Upland-CECERT	55.88	184.13	-0.55
21086	Upland-CECERT	56.16	184.15	-0.55
21087	Upland-CECERT	56.45	184.16	-0.35
21088	Upland-CECERT	56.86	184.18	-0.35
21089	Upland-CECERT	57.32	184.20	-0.35
21090	Upland-CECERT	56.93	184.21	-0.35
21091	Upland-CECERT	56.86	184.23	-0.35
21092	Upland-CECERT	57.20	184.24	-0.35
21093	Upland-CECERT	56.62	184.26	-0.47
21094	Upland-CECERT	55.60	184.27	-0.47
21095	Upland-CECERT	52.84	184.29	-0.47
21096	Upland-CECERT	49.09	184.30	-0.47
21097	Upland-CECERT	44.94	184.31	-0.47
21098	Upland-CECERT	41.46	184.33	-0.47
21099	Upland-CECERT	38.20	184.34	-0.47
21100	Upland-CECERT	35.44	184.35	-0.47
21101	Upland-CECERT	32.99	184.35	-0.53
21102	Upland-CECERT	31.12	184.36	-0.53
21103	Upland-CECERT	29.11	184.37	-0.53
21104	Upland-CECERT	27.26	184.38	-0.53
21105	Upland-CECERT	25.81	184.39	-0.53
21106	Upland-CECERT	24.66	184.39	-0.53
21107	Upland-CECERT	24.26	184.40	-0.53
21108	Upland-CECERT	24.16	184.41	-0.53
21109	Upland-CECERT	23.35	184.41	-0.53
21110	Upland-CECERT	22.10	184.42	-0.53
21111	Upland-CECERT	20.13	184.42	-0.53
21112	Upland-CECERT	18.05	184.43	-0.53
21113	Upland-CECERT	15.75	184.43	-0.53
21114	Upland-CECERT	12.99	184.44	-0.53
21115	Upland-CECERT	10.32	184.44	-0.53
21116	Upland-CECERT	7.54	184.44	-0.53
21117	Upland-CECERT	5.32	184.44	-0.53
21118	Upland-CECERT	4.51	184.44	-0.53
21119	Upland-CECERT	5.90	184.45	-0.53
21120	Upland-CECERT	8.44	184.45	-0.53
21121	Upland-CECERT	9.36	184.45	-0.27
21122	Upland-CECERT	9.61	184.45	-0.27
21123	Upland-CECERT	9.64	184.46	-0.27
21124	Upland-CECERT	10.78	184.46	-0.27
21125	Upland-CECERT	10.74	184.46	-0.27
21126	Upland-CECERT	11.39	184.47	-0.27
21127	Upland-CECERT	12.44	184.47	-0.27
21128	Upland-CECERT	12.46	184.47	-0.27
21129	Upland-CECERT	13.58	184.48	-0.27
21130	Upland-CECERT	13.44	184.48	-0.27
21131	Upland-CECERT	14.45	184.48	-0.27
21132	Upland-CECERT	14.58	184.49	-0.27
21133	Upland-CECERT	14.58	184.49	-0.27
21134	Upland-CECERT	15.20	184.50	-0.27
21135	Upland-CECERT	15.32	184.50	-0.27
21136	Upland-CECERT	14.84	184.50	-0.27
21137	Upland-CECERT	13.44	184.51	-0.27
21138	Upland-CECERT	11.27	184.51	-0.27

time (s)	route	speed (mph)	distance (mi)	grade (%)
20983	Upland-CECERT	51.51	182.57	-2.81
20984	Upland-CECERT	52.29	182.59	-2.81
20985	Upland-CECERT	53.27	182.60	-2.81
20986	Upland-CECERT	52.26	182.62	-2.81
20987	Upland-CECERT	53.11	182.63	-2.81
20988	Upland-CECERT	53.16	182.65	-2.81
20989	Upland-CECERT	52.19	182.66	-1.89
20990	Upland-CECERT	51.97	182.68	-1.89
20991	Upland-CECERT	51.44	182.69	-1.89
20992	Upland-CECERT	50.86	182.70	-1.89
20993	Upland-CECERT	50.66	182.72	-1.89
20994	Upland-CECERT	48.46	182.73	-1.89
20995	Upland-CECERT	45.90	182.74	-1.89
20996	Upland-CECERT	42.94	182.76	-0.36
20997	Upland-CECERT	39.91	182.77	-0.36
20998	Upland-CECERT	36.81	182.78	-0.36
20999	Upland-CECERT	33.74	182.79	-0.36
21000	Upland-CECERT	30.59	182.79	-0.36
21001	Upland-CECERT	28.02	182.80	-0.36
21002	Upland-CECERT	26.55	182.81	-0.36
21003	Upland-CECERT	25.17	182.82	-0.36
21004	Upland-CECERT	24.66	182.82	-0.36
21005	Upland-CECERT	25.30	182.83	-0.36
21006	Upland-CECERT	27.33	182.84	-0.36
21007	Upland-CECERT	31.45	182.85	-0.36
21008	Upland-CECERT	36.70	182.86	-0.47
21009	Upland-CECERT	41.52	182.87	-0.47
21010	Upland-CECERT	45.68	182.88	-0.47
21011	Upland-CECERT	48.74	182.89	-0.47
21012	Upland-CECERT	51.56	182.91	-0.47
21013	Upland-CECERT	54.18	182.93	-0.47
21014	Upland-CECERT	56.63	182.94	-0.47
21015	Upland-CECERT	58.54	182.95	0.05
21016	Upland-CECERT	59.75	182.97	0.05
21017	Upland-CECERT	60.67	182.99	0.05
21018	Upland-CECERT	61.45	183.00	0.05
21019	Upland-CECERT	62.25	183.02	0.05
21020	Upland-CECERT	62.97	183.04	0.05
21021	Upland-CECERT	63.97	183.06	2.47
21022	Upland-CECERT	64.60	183.07	2.47
21023	Upland-CECERT	63.84	183.09	2.47
21024	Upland-CECERT	63.59	183.11	2.47
21025	Upland-CECERT	63.65	183.13	2.47
21026	Upland-CECERT	63.29	183.14	2.47
21027	Upland-CECERT	63.65	183.16	0.00
21028	Upland-CECERT	63.98	183.18	0.00
21029	Upland-CECERT	64.22	183.20	0.00
21030	Upland-CECERT	64.51	183.21	0.00
21031	Upland-CECERT	64.79	183.23	0.00
21032	Upland-CECERT	64.20	183.25	0.00
21033	Upland-CECERT	63.58	183.27	-0.36
21034	Upland-CECERT	63.38	183.28	-0.36
21035	Upland-CECERT	63.17	183.30	-0.36
21036				

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries like 21217 Upland-CECERT 48.89 184.67 -0.13, 21218 Upland-CECERT 50.63 184.68 -0.13, etc., ending at 21294 Upland-CECERT 45.07 185.24 3.67.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries like 21373 Upland-CECERT 49.28 185.73 6.11, 21374 Upland-CECERT 49.59 185.74 6.11, etc., ending at 21450 Upland-CECERT 0.00 185.99 0.95.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries like 21295 Upland-CECERT 46.38 185.25 1.84, 21296 Upland-CECERT 46.75 185.26 1.84, etc., ending at 21372 Upland-CECERT 48.47 185.72 6.11.

Table with 5 columns: time (s), route, speed (mph), distance (mi), grade (%). Rows include entries like 21451 Upland-CECERT 0.00 185.99 0.95, 21452 Upland-CECERT 3.05 186.00 0.95, etc., ending at 21528 IDieCECERT 0.00 186.37 1.74.



**APPENDIX D****Adjustment Factors**

The table below contains the upward adjustment factors to be added to the testing results for the Emission Modification Enhanced In-Use Testing performed pursuant to this Consent Decree. These adjustment factors, submitted by Cummins as part of the application for the MY 2018 RAMS, account for the emissions associated with regeneration of the Diesel Particulate Filter (DPF).

<b>Adjustment Factors as Submitted for 2018 MY Certification Application</b>						
<b>Infrequent Regeneration Adjustment Factor (IRAF)</b>	<b>NMOG/NMHC (Non-methane Hydrocarbons) g/mi</b>	<b>CO (Carbon Monoxide) g/mi</b>	<b>NOx (Oxides of Nitrogen) g/mi</b>	<b>CH4 (Methane) g/mi</b>	<b>THC (Total Hydrocarbons)</b>	<b>N2O (Nitrous Oxide) g/mi</b>
<b>Class 2b/3 - Upward Diesel Adjustment Factor (FTP75)</b>	0.0005	0.0013	0.0118	0.0		0.0
<b>Class 2b/3 - Upward Diesel Adjustment Factor (HWFET)</b>	0.0002	N/a	0.0036	0.0		0.0