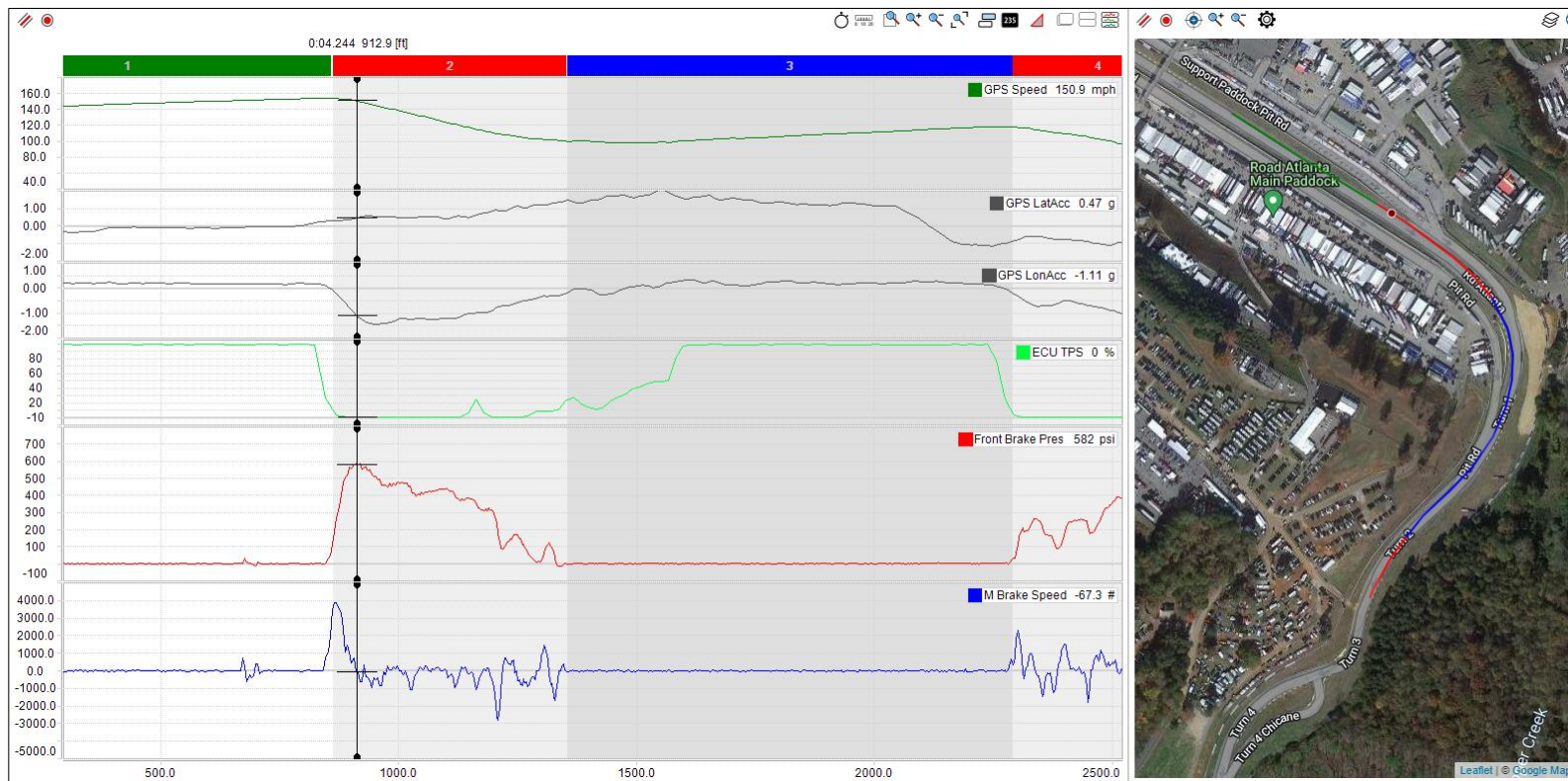


Race Studio 3 Data Analysis

Braking & Corner Entry Analysis



Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

Ray Phillips

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#155

Ray Phillips

www.precisiondrivinganalytics.com
rphillips@drivinganalytics.com



- Owner of Precision Driving Analytics
- Involved in Motorsports for 28 Years
- Driver for 17 Years
- Data Engineer for 2019 Ferrari Challenge Championship Team
- 7 Time Aim LearnFast Webinar Co-Host!



Ray Phillips

Precision Driving Analytics

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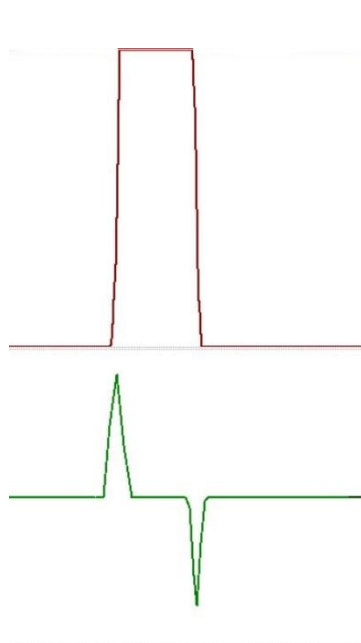


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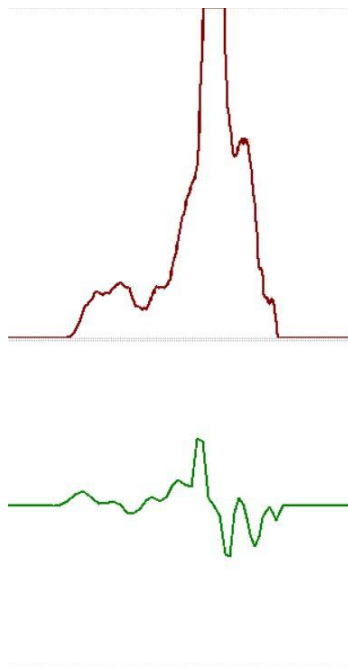
Brake and Brake Velocity Traces



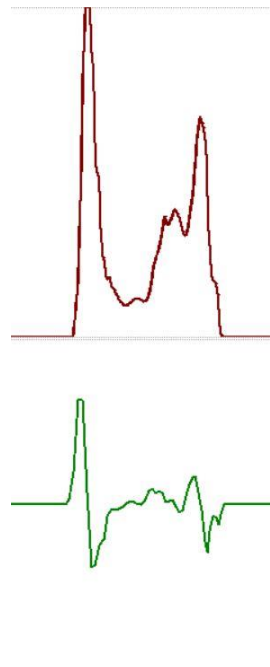
On and Off



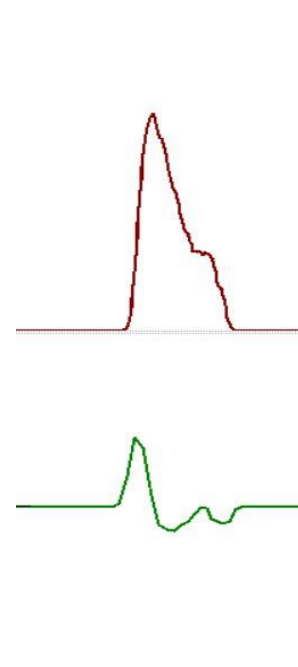
Soft Initial Application



Brake, Release, Brake Again



Trail Braking



Braking & Corner Entry Analysis

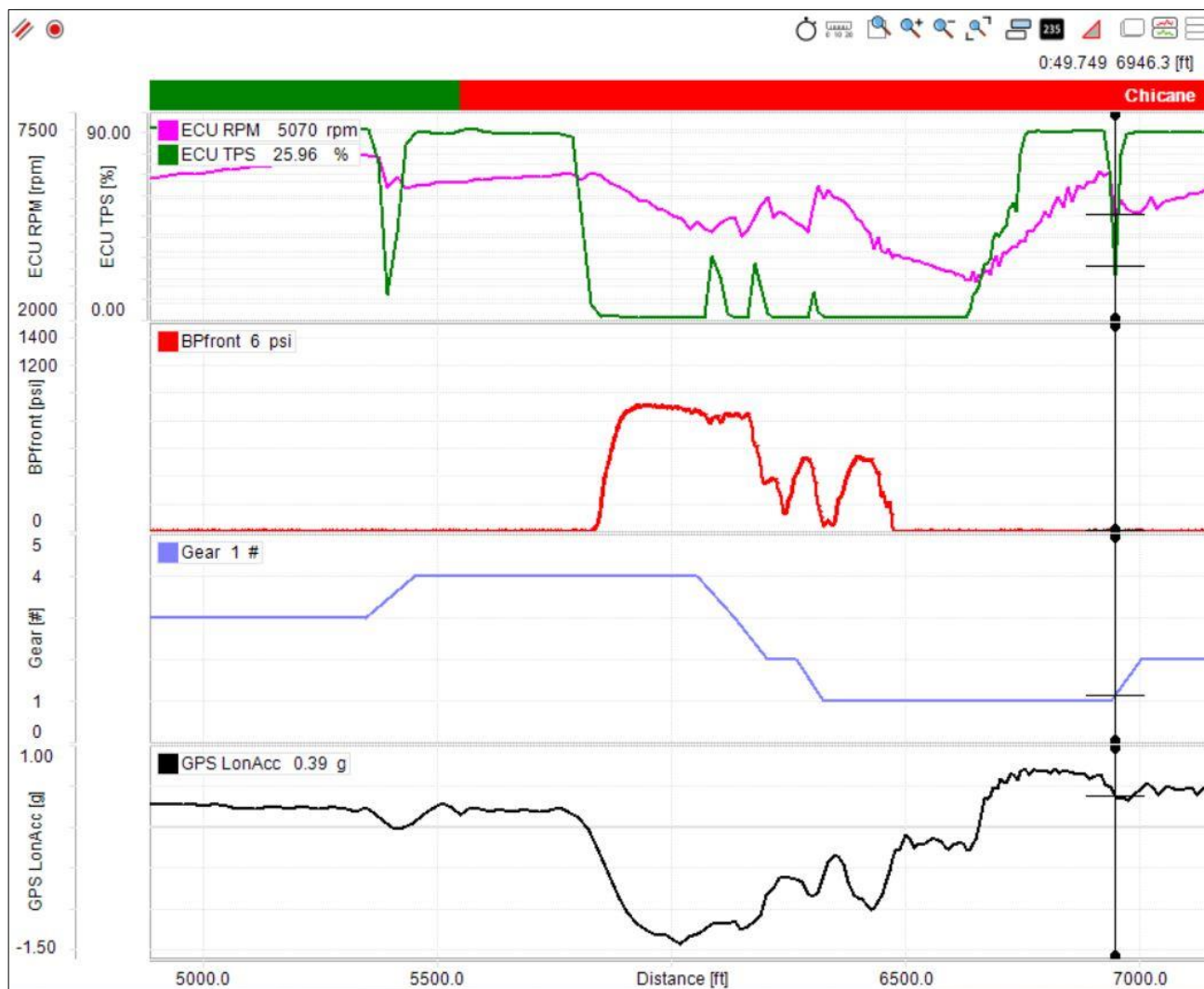
Brake and Braking Velocity Traces

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Downshifting



Braking & Corner Entry Analysis

Downshifting

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Downshifting (Cont'd)



Braking & Corner Entry Analysis

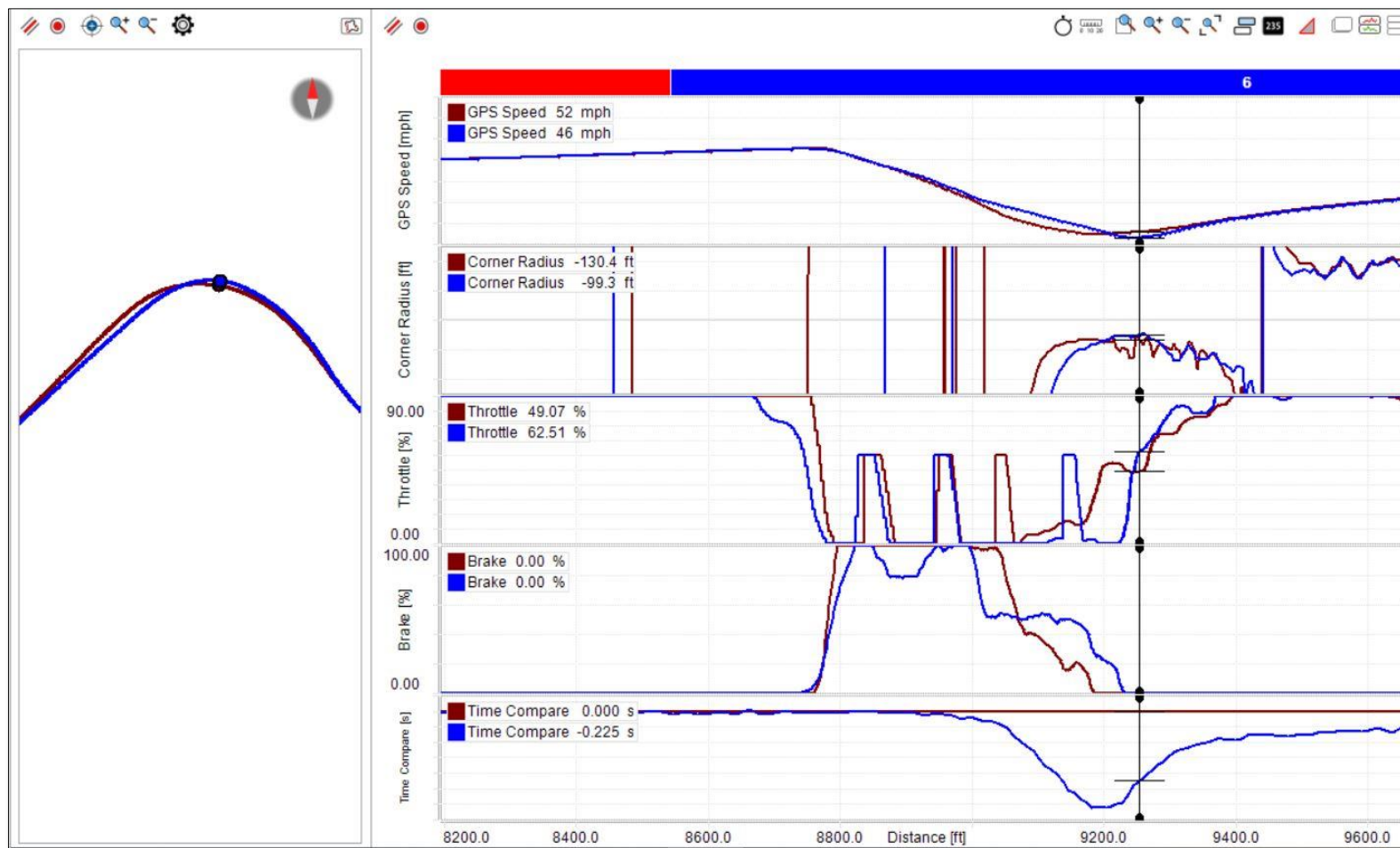
Downshifting (Cont'd)

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Corner Radius



Braking & Corner Entry Analysis

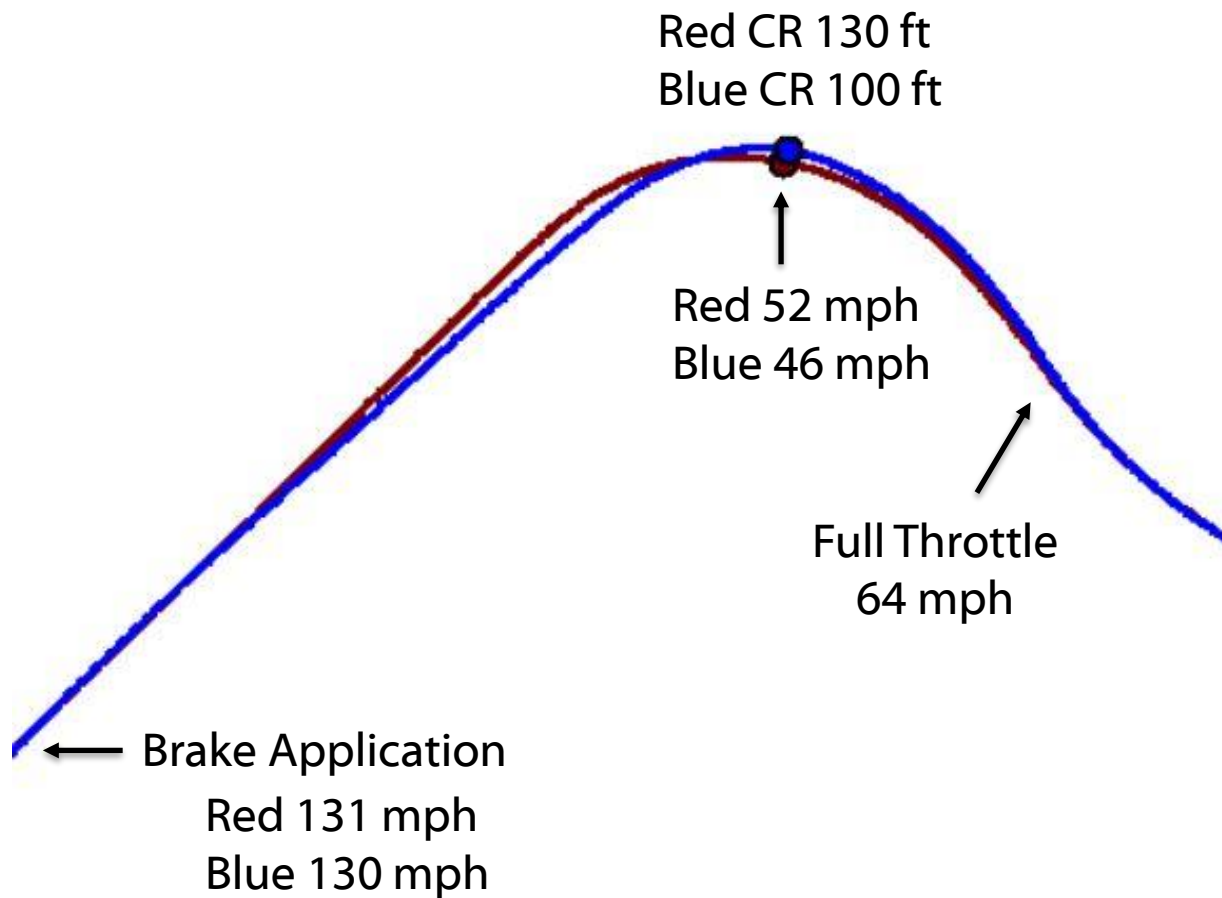
Corner Radius

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Corner Radius (Cont'd)



Braking & Corner Entry Analysis

Corner Radius (Cont'd)

Load Transfer Math Channels



LF

$$\text{IF}(\text{GT}(\text{"GPS LatAcc"},0),\text{COS}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},\text{IF}(\text{LT}(\text{"GPS LatAcc"},0),-\text{COS}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},0))$$

RF

$$\text{IF}(\text{GT}(\text{"GPS LatAcc"},0),\text{SIN}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},\text{IF}(\text{LT}(\text{"GPS LatAcc"},0),-\text{SIN}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},0))$$

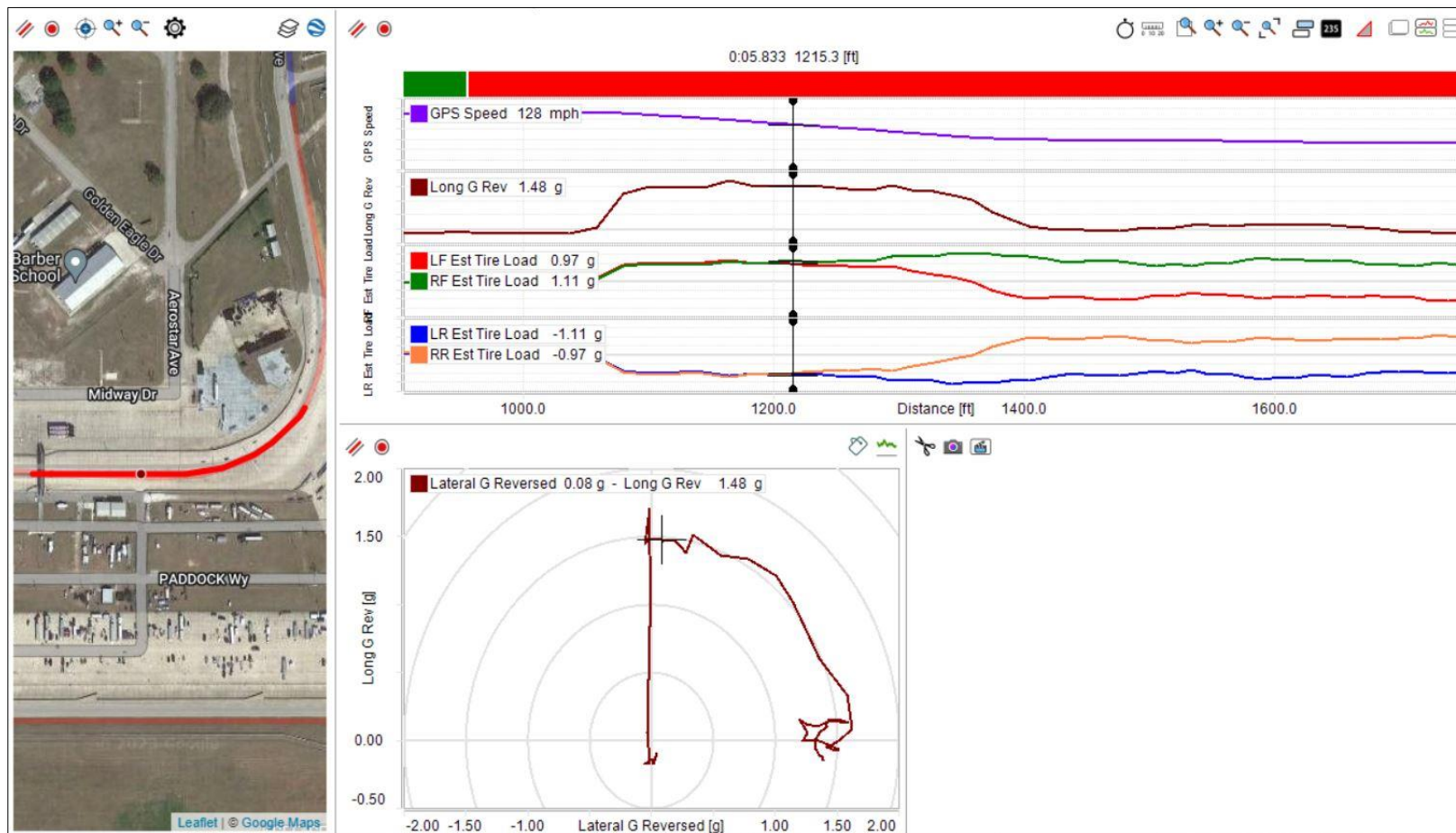
LR

$$\text{IF}(\text{GT}(\text{"GPS LatAcc"},0),-\text{SIN}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},\text{IF}(\text{LT}(\text{"GPS LatAcc"},0),\text{SIN}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},0))$$

RR

$$\text{IF}(\text{GT}(\text{"GPS LatAcc"},0),-\text{COS}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},\text{IF}(\text{LT}(\text{"GPS LatAcc"},0),\text{COS}(\text{ATAN}(\text{"GPS LonAcc"/"GPS LatAcc"})-3.14/4)*\text{"Combined G"},0))$$

Load Transfer (Cont'd)



Braking & Corner Entry Analysis

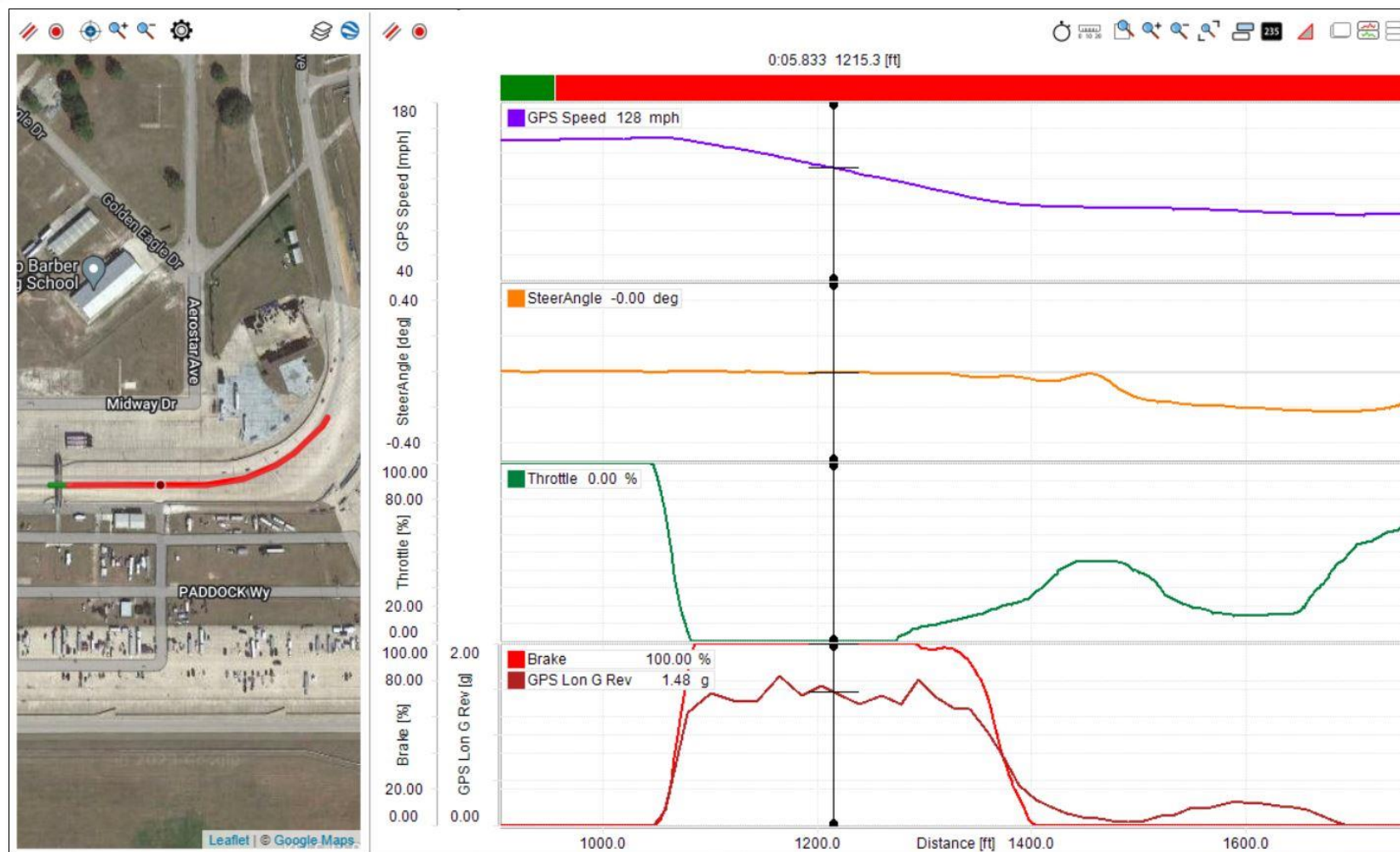
Load Transfer (Cont'd)

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Load Transfer (Cont'd)



Braking & Corner Entry Analysis

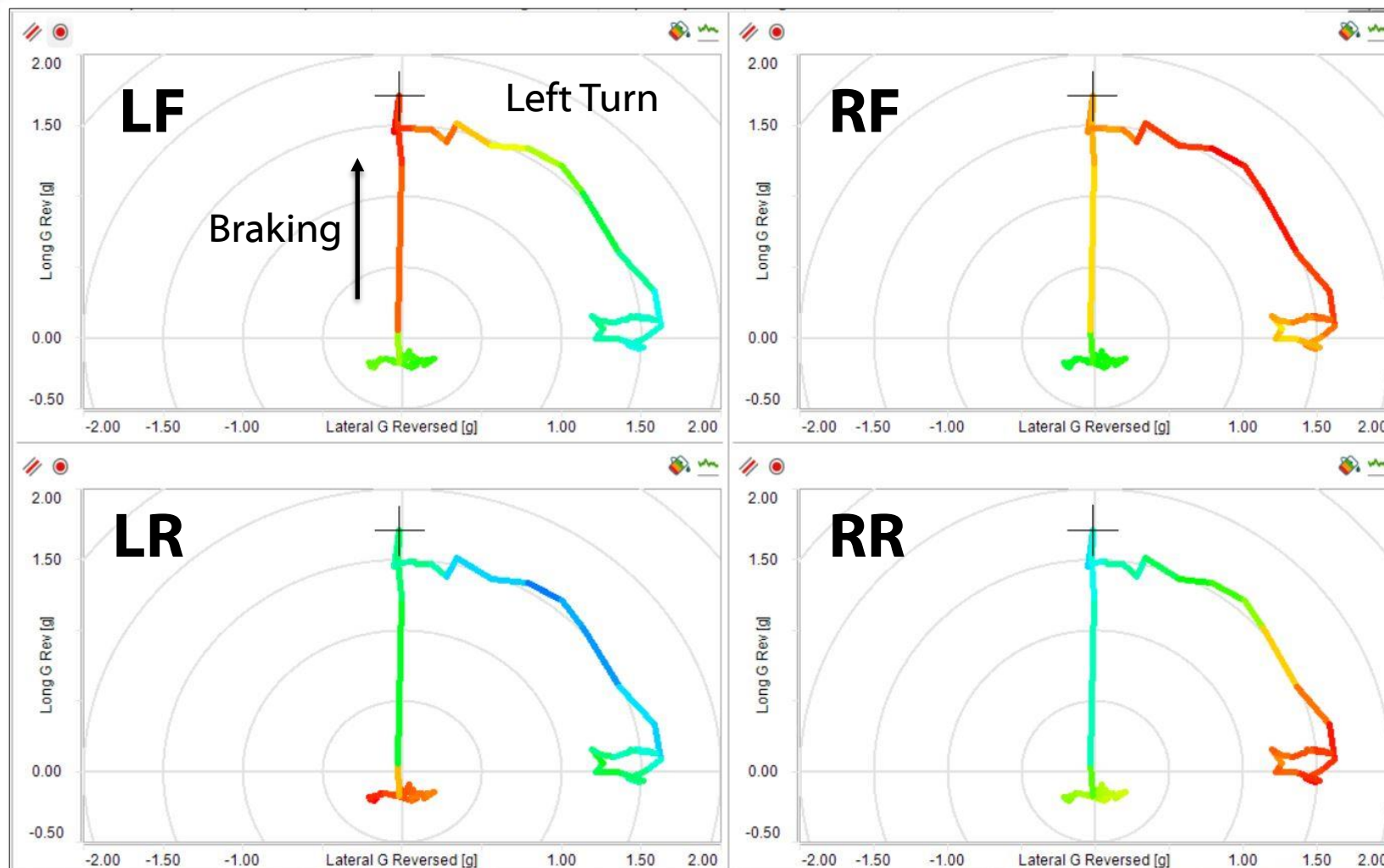
Load Transfer (Cont'd)

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Load Transfer (Cont'd)



Braking & Corner Entry Analysis

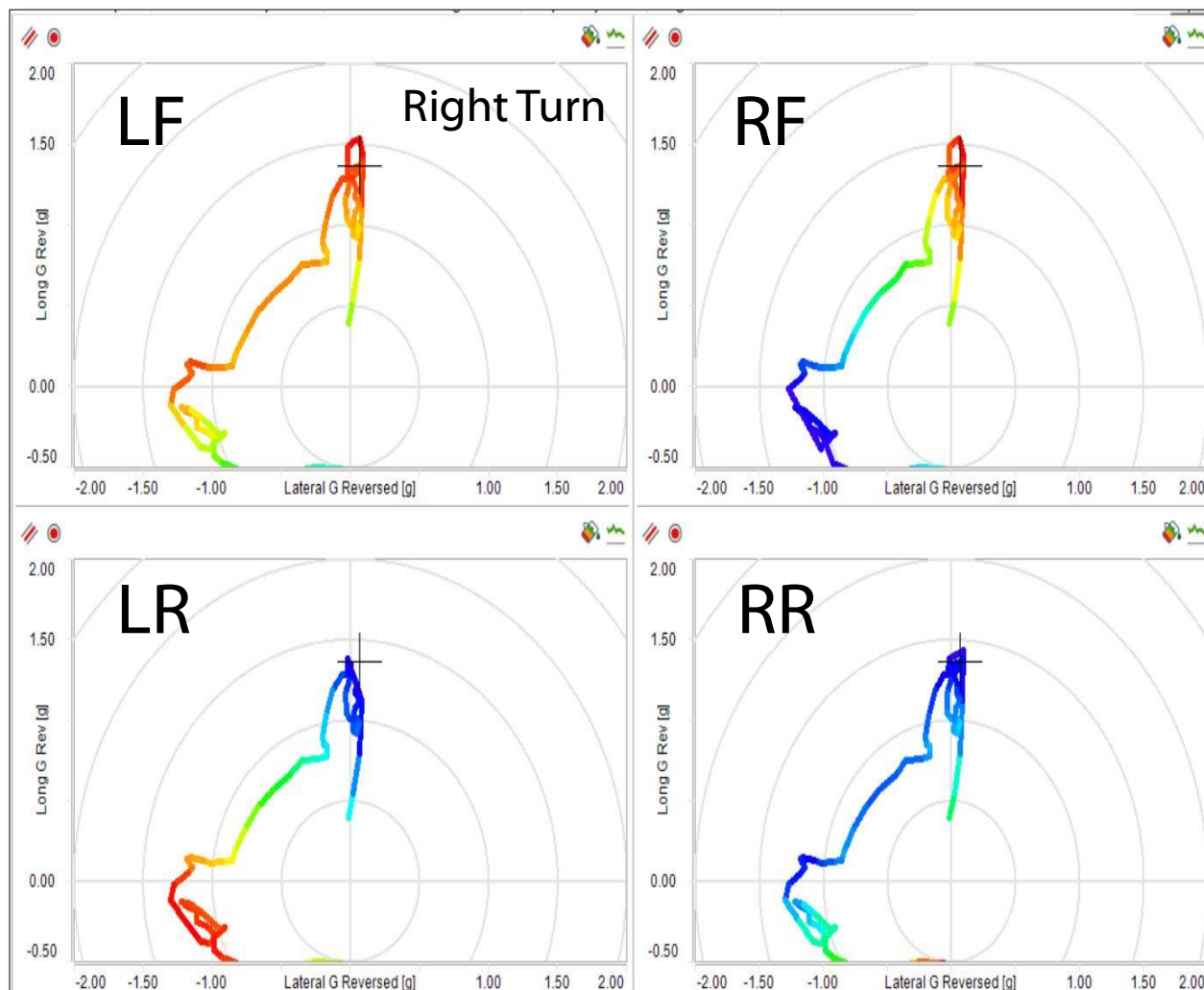
Load Transfer (Cont'd)

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Load Transfer (Cont'd)



Braking & Corner Entry Analysis

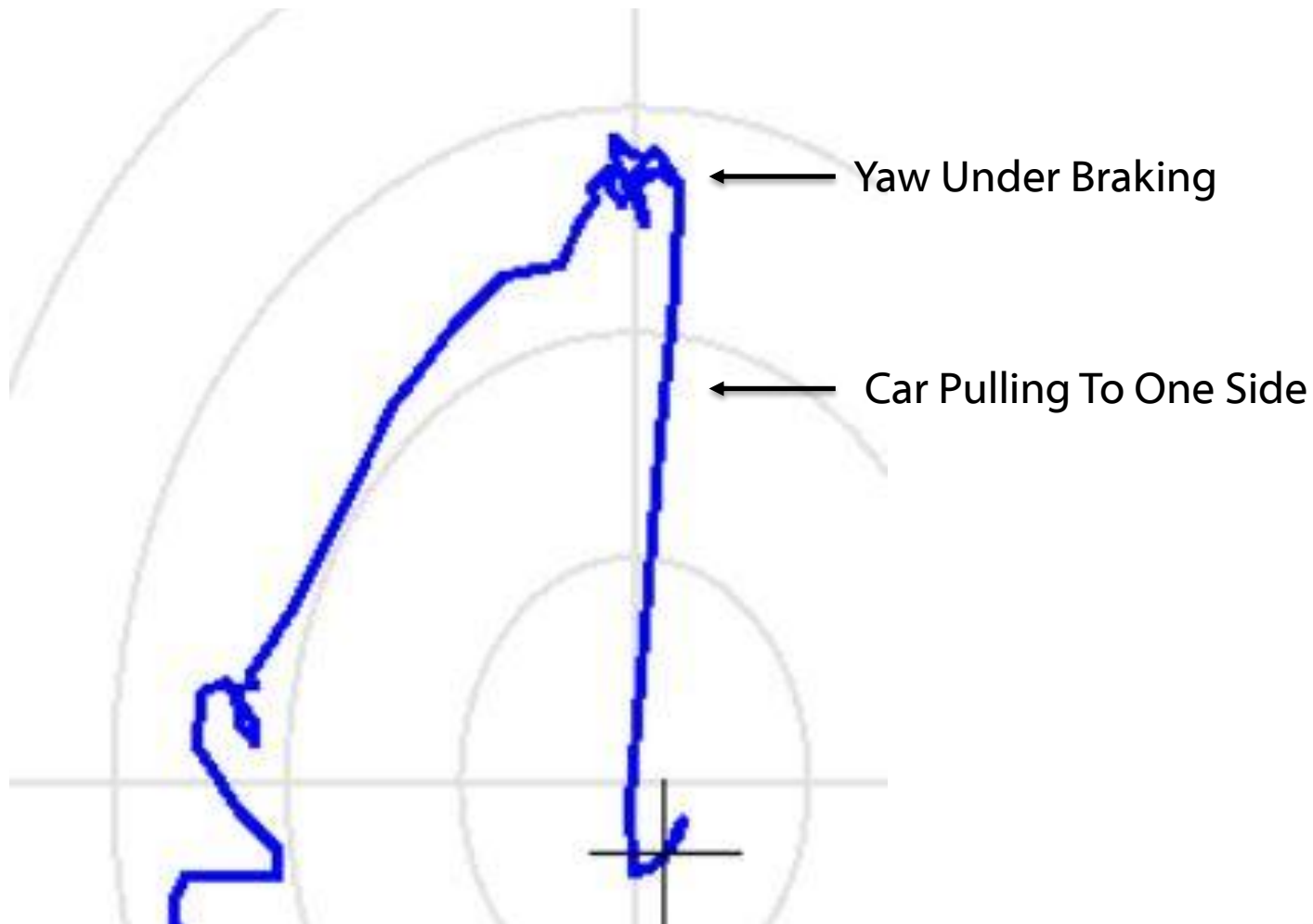
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Load Transfer (Cont'd)



Braking & Corner Entry Analysis

Load Transfer (Cont'd)

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If You Have Questions

Race Studio 3 Data Analysis

Braking & Corner Entry Analysis

Host:
Roger Caddell
AIM Sports - National Training Manager

Co-Host:
Ray Phillips
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- All New 2020 - 23 Live Webinar Videos
- Software Updates with Race Studio 3
- Pre-Calculated Gear Position Function
- Configuring WiFi Communication
- Customizing AiM Device Logos
- Race Studio 3 Basic Configuration - Part 1
- Race Studio 3 Basic Configuration - Part 2
- **I Have Downloaded my Data, Now What - Part 1*
- **I Have Downloaded my Data, Now What - Part 2*
- GPS Lap Insert
 - Selection Criteria
- Data Views
 - Sensor Calibration
- Measure Units
 - Conditional Alarms
- Sort Channels
 - Gear Position
- Test Properties
 - Firmware Update
- Per Lap Color
 - Solo Configuration
- Export Tests
 - Transmit Tracks
- Channel Reports
 - Gps Manager Overview
- Setting Time
 - New GPS Track
- Track Mapping
 - Webinars

* *Most Popular and Recommended*

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'AiM Cloud' Data Sharing

Fast, Safe, and Powerful

Host:
Roger Caddell
AIM Sports - National Training Manager

Co-Host:
Emiliano Bina
AIM Sports - Software Lead

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Webinar Series

Bringing Data Support and Training to You

Data Download Options
In Race Studio 3

March 31st, 2020

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Additional Materials

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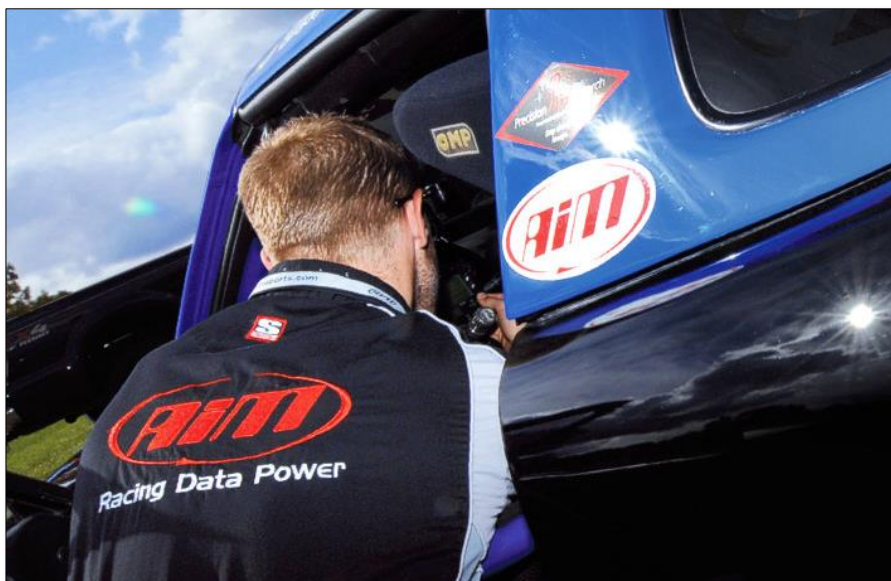
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AiM Sports Technical Support Staff Regularly
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Customer Support

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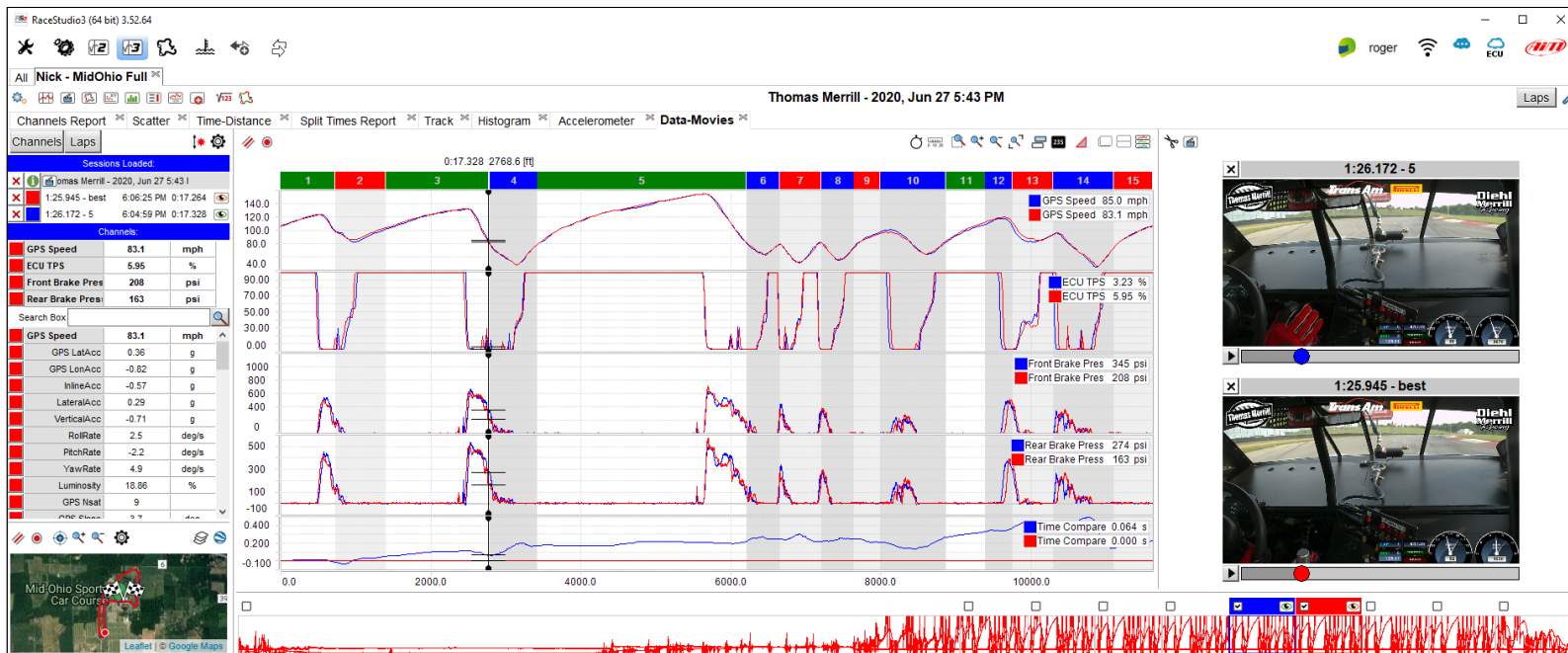
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Next AiM Sports Webinar

Feb 28th, 2023 – Last Tuesday of Each Month



Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

TBD

TBD

Next Webinar: Tuesday February 28th, 2023 - 10:00am Pac/1:00pm East

Next Webinar

Last Tuesday of Each Month

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Contact Information



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