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DATA ANALYSIS

Eds Mega Data Analysis Report

Rider: **Ed**
Bike: **Ducati V4 2020**
Track: **Phillip Island Grand Prix Circuit**
Category: Superbike
Event: Practice Day
Dates: 8 December 2025 - 9 December 2025
Sessions: 10 | Flying Laps: 37
Total Distance: 164.5 km

WEEKEND BEST LAP

1:57.340

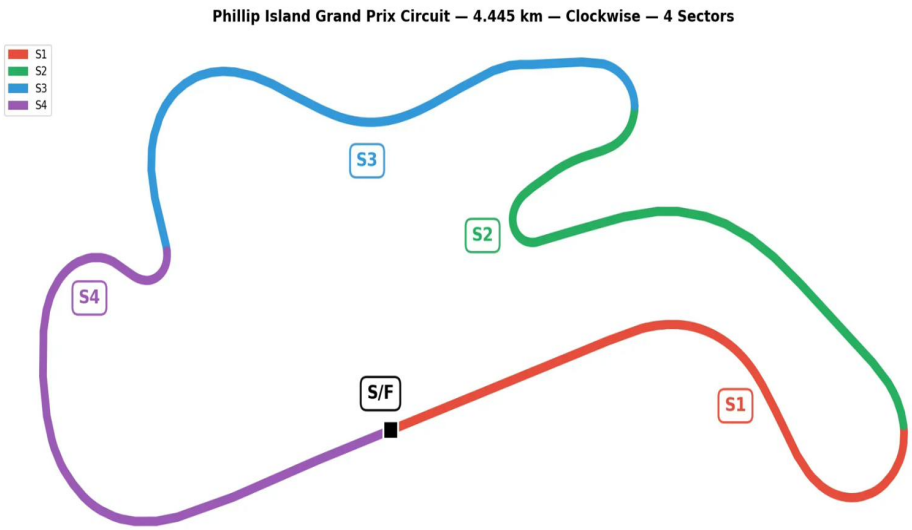
Day 2, Session 2, Lap 6

PERSONAL BEST

1:55.340

24 April 2025

Gap to PB: +2.000s



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Executive Summary

This two-day practice session at Phillip Island delivered a **weekend best of 1:57.340**, 2.000s off the personal best of 1:55.340. The data reveals a theoretical best of 1:54.827, indicating **2.513 seconds** of additional potential by combining best sector times from different laps.

Across 10 sessions and 37 flying laps over two days, the data shows progressive improvement with Day 2 producing faster lap times than Day 1. **S1 (Doohan → Southern Loop)** shows the highest variability (σ = 3.72s), indicating this as the primary focus area for finding consistent lap time.

Weekend Highlights

✓ **Day-on-day improvement:** Day 1 best 1:58.093 → Day 2 best 1:57.340 (0.753s faster)

✓ **Consistent sub-2:00 pace:** Multiple laps under 2:00 achieved across both days

✓ **Strong theoretical potential:** 1:54.827 achievable by combining best sectors

Areas to Focus

→ **Gap to PB:** 2.000s to match personal best of 1:55.340

→ **Sector consistency:** S1 shows 3.72s variability – focus area for next session

→ **Theoretical gap:** 2.513s available by combining best sectors – no single perfect lap yet

Data Logger Note

This analysis is based on Speed Angle data which provides lap times, sector times, GPS speed, lean angle, and G-force data. Throttle position, brake pressure, lambda/AFR, and vehicle health parameters are not available from this logger.

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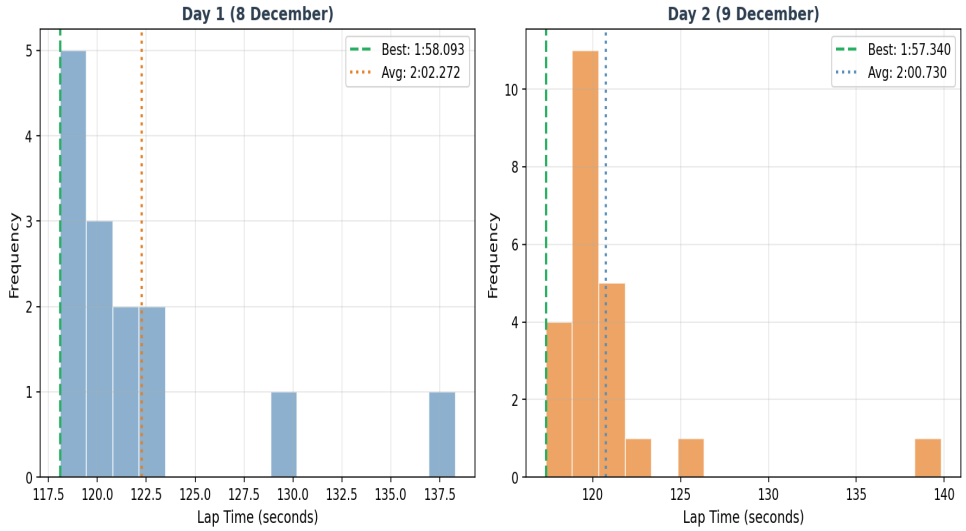
Session Breakdown

Summary of all sessions recorded across both days with key performance metrics.

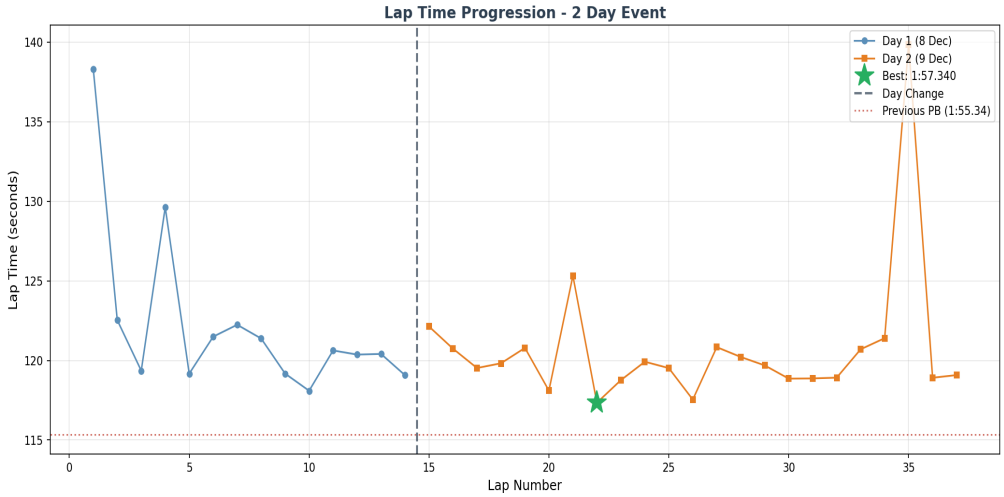
Day Comparison

	Day 1	Day 2
Date	8 December 2025	9 December 2025
Sessions	4	5
Flying Laps	14	23
Best Lap	1:58.093	**1:57.340**

Lap Time Distribution by Day



Lap Time Progression



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Day 1 - 8 December 2025

Session 1 - 10:22 AM

5 flying laps | Best: 1:59.166 | Top Speed: 233 km/h | Consistency: ±7.31s

Lap	Time	Top Speed	Delta to Best
2	2:18.296	223 km/h	+20.956s
3	2:02.532	218 km/h	+5.192s
4	1:59.352	220 km/h	+2.012s
5	2:09.621	222 km/h	+12.281s
6	**1:59.166**	233 km/h	+1.826s

Session 2 - 11:47 AM

5 flying laps | Best: 1:58.093 | Top Speed: 230 km/h | Consistency: ±1.57s

Lap	Time	Top Speed	Delta to Best
2	2:01.491	226 km/h	+4.151s
3	2:02.240	225 km/h	+4.900s
4	2:01.376	220 km/h	+4.036s
5	1:59.170	218 km/h	+1.830s
6	**1:58.093**	230 km/h	+0.753s

Session 3 - 02:24 PM

2 flying laps | Best: 2:00.367 | Top Speed: 236 km/h | Consistency: ±0.13s

Lap	Time	Top Speed	Delta to Best
2	2:00.625	223 km/h	+3.285s
3	**2:00.367**	236 km/h	+3.027s

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Session 4 - 03:44 PM

2 flying laps | Best: 1:59.068 | Top Speed: 236 km/h | Consistency: ±0.67s

Lap	Time	Top Speed	Delta to Best
2	2:00.406	234 km/h	+3.066s
3	1:59.068	236 km/h	+1.728s

Day 2 - 9 December 2025

Session 1 - 08:09 AM

4 flying laps | Best: 1:59.522 | Top Speed: 223 km/h | Consistency: ±1.01s

Lap	Time	Top Speed	Delta to Best
2	2:02.129	223 km/h	+4.789s
3	2:00.737	220 km/h	+3.397s
4	1:59.522	223 km/h	+2.182s
5	1:59.818	223 km/h	+2.478s

Session 2 - 09:28 AM

4 flying laps | Best: 1:57.340 | Top Speed: 236 km/h | Consistency: ±3.12s

Lap	Time	Top Speed	Delta to Best
2	2:00.784	231 km/h	+3.444s
3	1:58.101	231 km/h	+0.761s
5	2:05.316	228 km/h	+7.976s
6	1:57.340	236 km/h	+0.000s

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Session 3 - 10:47 AM

5 flying laps | Best: 1:57.539 | Top Speed: 236 km/h | Consistency: ±1.11s

Lap	Time	Top Speed	Delta to Best
2	1:58.759	222 km/h	+1.419s
3	1:59.918	236 km/h	+2.578s
4	1:59.516	236 km/h	+2.176s
5	**1:57.539**	234 km/h	+0.199s
6	2:00.833	234 km/h	+3.493s

Session 5 - 01:00 PM

5 flying laps | Best: 1:58.856 | Top Speed: 238 km/h | Consistency: ±0.55s

Lap	Time	Top Speed	Delta to Best
2	2:00.216	236 km/h	+2.876s
3	1:59.685	238 km/h	+2.345s
4	**1:58.856**	230 km/h	+1.516s
5	1:58.868	228 km/h	+1.528s
6	1:58.917	222 km/h	+1.577s

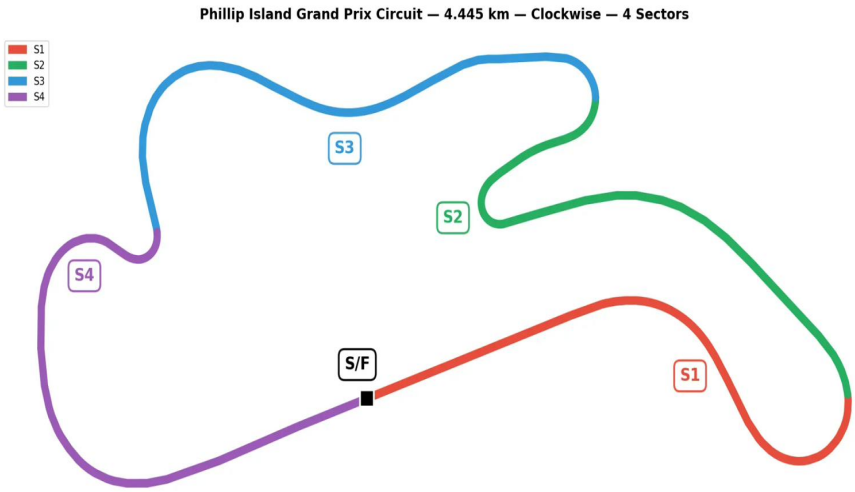
Session 6 - 02:16 PM

5 flying laps | Best: 1:58.910 | Top Speed: 225 km/h | Consistency: ±7.99s

Lap	Time	Top Speed	Delta to Best
2	2:00.699	223 km/h	+3.359s
3	2:01.396	222 km/h	+4.056s
4	2:19.843	225 km/h	+22.503s
5	**1:58.910**	222 km/h	+1.570s
6	1:59.078	225 km/h	+1.738s

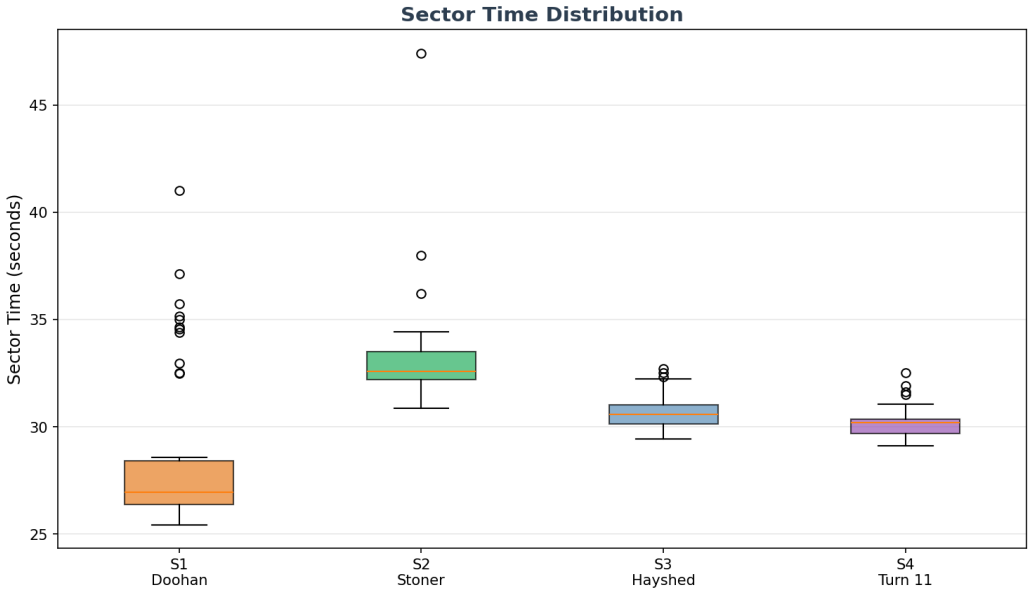
Sector Analysis

Performance breakdown across the four track sectors showing consistency and theoretical best calculation.



Sector	Best Time	Avg Time	Std Dev	Gap to Best
S1: Doohan → Southern Loop	**25.433s**	28.730s	3.722s	+3.297s
S2: Stoner → Siberia	**30.855s**	33.194s	2.417s	+2.339s
S3: Hayshed → MG	**29.438s**	30.701s	0.767s	+1.263s
S4: Turn 11 → Gardner	**29.101s**	30.206s	0.706s	+1.105s
THEORETICAL BEST	**114.827s**	-	-	-

Sector Time Distribution



Priority Improvement Areas

Priority 1: S1 - Doohan → Southern Loop

High variability (σ = 3.722s) indicates inconsistent execution.

Potential gain of 3.297s by matching best sector time consistently.

Priority 2: S2 - Stoner → Siberia

High variability (σ = 2.417s) indicates inconsistent execution.

Potential gain of 2.339s by matching best sector time consistently.

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Theoretical Best Lap

Calculated from the best sector times achieved across all laps during the weekend.

THEORETICAL BEST

1:54.827

GAP TO THEORETICAL

+2.513s

Best Sector Composition

Sector	Best Time	Name
S1	**25.433s**	Doohan → Southern Loop
S2	**30.855s**	Stoner → Siberia
S3	**29.438s**	Hayshed → MG
S4	**29.101s**	Turn 11 → Gardner
TOTAL	**1:54.827**	-

Analysis

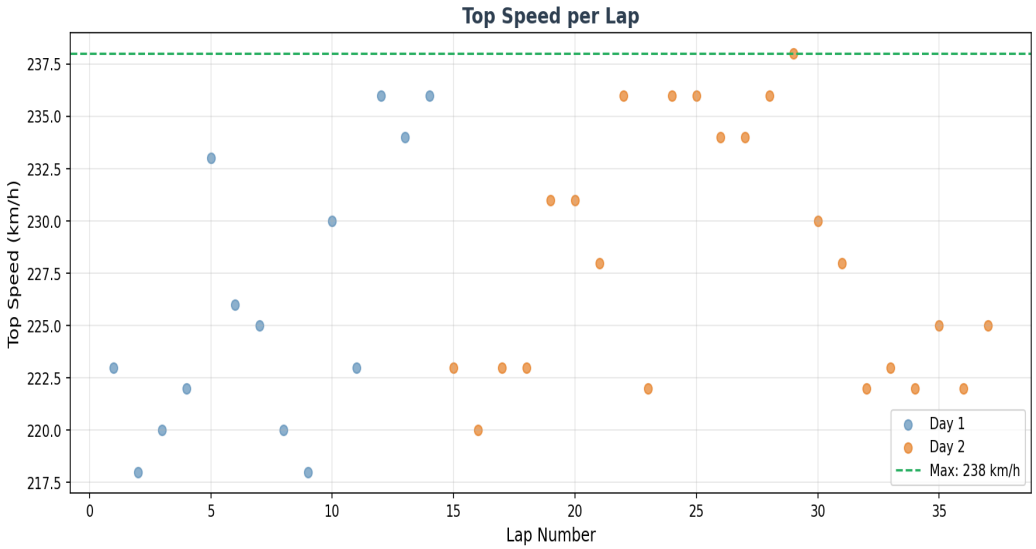
Biggest opportunity: S1 with 3.297s available between average and best.

Best sectors came from different laps - potential to find more time

Top Speed Analysis

GPS-recorded maximum speeds across all sessions. Speed Angle provides accurate GPS speed data at 10Hz.

Maximum speed recorded: **238 km/h**



Speed Observations

The data shows top speed generally correlates with lap time – faster laps tend to achieve higher maximum speeds on the main straight (Gardner Straight). This indicates the rider is carrying more momentum through the preceding corners on better laps.

Report Summary

This Mega Data Analysis Report provides comprehensive insights from your two-day practice session at Phillip Island.

Key Findings

• Weekend best lap: 1:57.340 (Day 2, Session 2)

• Personal best: 1:55.340 – Gap: +2.000s

• Theoretical best: 1:54.827 (Gap to actual: +2.513s)

• Total flying laps: 37 across 10 sessions

• Distance covered: 164.5 km

What the Data Shows Went Well

✓ **Day-on-day improvement:** Day 2 best (1:57.340) was 0.753s faster than Day 1

✓ **Consistent pace:** Multiple sub-2:00 laps across different sessions

✓ **Session progression:** Best laps typically came mid-session after warming up

Areas for Improvement

→ **S1 consistency:** 3.72s variability indicates inconsistent execution

→ **S2 consistency:** 2.42s variability – second priority area

→ **Theoretical gap:** 2.513s available by combining best sectors from different laps

Next Session Focus

Based on this analysis, the data suggests focusing on sector consistency, particularly in S1. The theoretical best of 1:54.827 shows the pace is there – the opportunity is in replicating best sectors consistently within the same lap to close the 2.000s gap to personal best.