

Initial Velocity Bucket Analysis Report

Report Summary:

- Bucket Type: Initial Velocity
- Total Buckets: 10
- Date Range: 2025-08-01 to 2025-08-04

This report contains three tables showing:

1. Median statistics for each bucket
2. 95th percentile statistics for each bucket
3. 99th percentile statistics for each bucket

Each table shows:

- Bucket range
- Total events in the bucket
- Median/95th/99th percentile values for:
 - * Max Brake Pedal Position (BPP)
 - * Total Time (seconds)
 - * Total Distance (meters)
 - * Deceleration (m/s^2)

Initial Velocity - Median Statistics

bucket	total_events	median_max_bpp	median_total_time	median_total_distance	median_deceleration
25-30	35	39.6	13.42	34.92	0.59
30-35	34	37.0	14.04	50.78	0.63
35-40	29	42.4	14.26	55.0	0.75
40-45	23	50.4	14.16	62.7	0.88
45-50	11	40.4	14.61	85.08	0.89
50-55	9	54.4	14.48	86.32	0.99
55-60	3	52.8	13.98	97.12	1.16
60-65	2	58.8	13.95	105.03	1.24
65-70	2	64.2	14.62	130.41	1.24
70-75	2	60.6	14.82	122.66	1.33

Initial Velocity - 95th Percentile Statistics

bucket	total_events	p95_max_bpp	p95_total_time	p95_total_distance	p95_deceleration
25-30	35	54.0	14.88	60.13	0.96
30-35	34	53.52	14.81	70.73	0.94
35-40	29	61.28	14.88	73.7	0.94
40-45	23	59.12	14.92	94.9	1.13
45-50	11	50.2	14.84	96.19	1.02
50-55	9	59.84	14.85	96.22	1.19
55-60	3	53.16	14.66	106.93	1.16
60-65	2	62.04	14.61	113.13	1.27
65-70	2	66.9	14.85	141.35	1.26
70-75	2	62.94	14.91	133.82	1.33

Initial Velocity - 99th Percentile Statistics

bucket	total_events	p99_max_bpp	p99_total_time	p99_total_distance	p99_deceleration
25-30	35	56.11	14.99	62.95	1.13
30-35	34	56.14	14.86	75.56	1.15
35-40	29	62.75	14.98	75.55	1.03
40-45	23	67.0	14.99	97.32	1.29
45-50	11	50.68	14.86	102.93	1.03
50-55	9	59.97	14.91	97.12	1.2
55-60	3	53.19	14.72	107.8	1.16
60-65	2	62.33	14.67	113.85	1.27
65-70	2	67.14	14.87	142.32	1.26
70-75	2	63.15	14.92	134.82	1.33