

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	28	34.0	13.94	39.28	0.55
30-35	22	38.2	13.05	48.09	0.67
35-40	29	40.4	14.38	54.24	0.73
40-45	13	44.4	14.4	68.61	0.82
45-50	27	46.4	14.63	83.85	0.92
50-55	6	46.0	14.57	92.66	0.99
55-60	10	53.8	14.73	98.18	1.09
60-65	2	52.4	14.92	105.87	1.13
65-70	5	58.8	14.42	108.04	1.31
70-75	1	60.0	14.62	133.35	1.36

Initial Velocity - 95th Percentile Statistics

bucket	total_events	p95_max_bpp	p95_total_time	p95_total_distance	p95_deceleration
25-30	28	51.28	14.76	53.92	0.86
30-35	22	50.66	14.88	63.4	1.12
35-40	29	54.16	14.86	79.11	1.06
40-45	13	50.8	14.84	92.38	0.99
45-50	27	59.2	14.84	105.35	1.19
50-55	6	53.9	14.89	108.88	1.02
55-60	10	62.54	14.84	105.5	1.2
60-65	2	54.2	14.94	108.83	1.13
65-70	5	64.8	14.72	140.66	1.46
70-75	1	60.0	14.62	133.35	1.36

Initial Velocity - 99th Percentile Statistics

bucket	total_events	p99_max_bpp	p99_total_time	p99_total_distance	p99_deceleration
25-30	28	55.9	14.91	54.76	0.89
30-35	22	51.12	14.93	68.85	1.14
35-40	29	55.09	14.95	81.21	1.23
40-45	13	50.8	14.9	92.83	1.05
45-50	27	60.99	14.87	106.44	1.25
50-55	6	53.98	14.91	111.86	1.02
55-60	10	64.99	14.87	105.78	1.24
60-65	2	54.36	14.94	109.1	1.13
65-70	5	65.44	14.75	142.22	1.48
70-75	1	60.0	14.62	133.35	1.36