

Initial Velocity Bucket Analysis Report

Report Summary:

- Bucket Type: Initial Velocity
- Total Buckets: 13
- Date Range: 2025-08-01 to 2025-10-15

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
20-25	4	39.6	14.75	69.88	0.45
25-30	613	29.2	13.48	35.45	0.58
30-35	572	32.0	13.64	43.23	0.67
35-40	518	32.8	13.7	51.95	0.76
40-45	410	34.4	13.9	62.66	0.85
45-50	271	36.0	14.06	73.68	0.93
50-55	205	38.0	14.14	83.63	1.04
55-60	145	38.0	14.24	86.47	1.12
60-65	78	43.8	14.14	104.43	1.22
65-70	53	44.4	14.18	106.27	1.32
70-75	22	52.4	14.47	111.14	1.38
75-80	10	59.8	14.1	130.37	1.53
80-85	1	54.4	14.74	172.2	1.6

Initial Velocity - 95th Percentile Statistics

bucket	total_events	p95_max_bpp	p95_total_time	p95_total_distance	p95_deceleration
20-25	4	45.9	14.92	72.42	0.46
25-30	613	47.76	14.9	57.54	0.94
30-35	572	51.38	14.84	68.06	1.04
35-40	518	52.12	14.9	75.98	1.07
40-45	410	55.82	14.92	89.6	1.12
45-50	271	55.6	14.88	97.02	1.21
50-55	205	59.92	14.96	108.11	1.21
55-60	145	62.32	14.94	116.7	1.38
60-65	78	63.56	14.96	128.26	1.56
65-70	53	66.96	14.92	132.17	1.74
70-75	22	66.3	14.98	148.31	2.06
75-80	10	80.78	14.6	152.07	1.61
80-85	1	54.4	14.74	172.2	1.6

Initial Velocity - 99th Percentile Statistics

bucket	total_events	p99_max_bpp	p99_total_time	p99_total_distance	p99_deceleration
20-25	4	46.62	14.93	72.75	0.46
25-30	613	55.95	14.98	67.24	1.17
30-35	572	57.66	14.95	77.52	1.28
35-40	518	62.93	14.98	85.63	1.22
40-45	410	67.56	15.0	99.65	1.36
45-50	271	68.12	14.98	107.12	1.39
50-55	205	65.17	15.0	115.85	1.37
55-60	145	73.94	15.0	129.22	1.76
60-65	78	74.21	15.0	130.73	1.67
65-70	53	71.57	14.95	145.87	1.93
70-75	22	67.66	14.99	154.14	2.14
75-80	10	87.84	14.6	157.57	1.62
80-85	1	54.4	14.74	172.2	1.6