

Initial Velocity Bucket Analysis Report

Report Summary:

- Bucket Type: Initial Velocity
- Total Buckets: 12
- 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	3	34.0	14.54	65.05	0.47
25-30	512	26.0	13.04	33.73	0.59
30-35	505	27.6	13.68	43.92	0.67
35-40	406	29.6	13.79	54.01	0.76
40-45	340	31.6	13.94	62.28	0.85
45-50	295	32.8	14.0	74.03	0.94
50-55	216	35.0	13.9	81.73	1.06
55-60	135	37.2	14.22	92.0	1.13
60-65	68	38.8	14.03	99.35	1.23
65-70	46	40.4	14.39	111.38	1.32
70-75	21	41.2	14.18	119.98	1.42
75-80	5	47.6	14.42	135.36	1.49

Initial Velocity - 95th Percentile Statistics

bucket	total_events	p95_max_bpp	p95_total_time	p95_total_distance	p95_deceleration
20-25	3	40.84	14.54	67.19	0.52
25-30	512	36.0	14.89	56.67	1.02
30-35	505	36.8	14.92	71.6	1.02
35-40	406	38.0	14.88	79.71	1.12
40-45	340	40.0	14.92	88.36	1.18
45-50	295	41.32	14.91	98.17	1.26
50-55	216	43.6	14.89	110.12	1.33
55-60	135	45.84	14.88	119.84	1.45
60-65	68	48.12	14.98	128.2	1.44
65-70	46	47.9	14.9	137.87	1.59
70-75	21	50.4	14.88	160.61	1.63
75-80	5	52.72	14.91	145.69	1.67

Initial Velocity - 99th Percentile Statistics

bucket	total_events	p99_max_bpp	p99_total_time	p99_total_distance	p99_deceleration
20-25	3	41.45	14.54	67.38	0.53
25-30	512	43.47	14.98	68.08	1.18
30-35	505	40.0	15.0	80.68	1.27
35-40	406	42.38	14.98	93.37	1.3
40-45	340	50.68	14.98	102.16	1.47
45-50	295	45.39	14.98	109.64	1.59
50-55	216	55.04	14.96	119.13	1.56
55-60	135	53.46	14.97	134.08	1.59
60-65	68	55.33	15.0	133.57	1.66
65-70	46	59.68	14.94	148.31	2.02
70-75	21	52.0	14.98	172.6	1.8
75-80	5	53.74	14.95	146.27	1.69