

Initial Velocity Bucket Analysis Report

Report Summary:

- Bucket Type: Initial Velocity
- Total Buckets: 14
- 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
15-20	1	44.0	14.99	66.18	0.31
20-25	0	nan	nan	nan	nan
25-30	584	28.8	13.34	34.66	0.58
30-35	531	31.2	13.62	43.36	0.67
35-40	438	32.4	14.0	53.42	0.75
40-45	343	35.6	13.96	61.03	0.85
45-50	296	36.8	13.9	69.74	0.95
50-55	195	36.0	14.02	81.31	1.04
55-60	142	41.8	14.02	90.37	1.14
60-65	75	43.2	14.26	98.59	1.22
65-70	33	39.2	14.18	106.99	1.32
70-75	25	44.8	14.32	111.86	1.42
75-80	8	47.8	13.04	114.67	1.64
80-85	3	42.8	14.5	132.9	1.55

Initial Velocity - 95th Percentile Statistics

bucket	total_events	p95_max_bpp	p95_total_time	p95_total_distance	p95_deceleration
15-20	1	44.0	14.99	66.18	0.31
20-25	0	nan	nan	nan	nan
25-30	584	47.14	14.84	55.62	1.0
30-35	531	48.0	14.86	66.02	1.02
35-40	438	50.0	14.92	77.81	1.09
40-45	343	53.92	14.9	88.64	1.11
45-50	296	58.0	14.84	93.24	1.32
50-55	195	54.92	14.92	102.06	1.26
55-60	142	61.14	14.88	113.58	1.31
60-65	75	63.28	14.93	126.61	1.55
65-70	33	53.12	14.79	132.5	1.61
70-75	25	63.04	14.91	128.65	1.65
75-80	8	76.34	14.7	148.91	1.94
80-85	3	44.6	14.54	163.65	1.55

Initial Velocity - 99th Percentile Statistics

bucket	total_events	p99_max_bpp	p99_total_time	p99_total_distance	p99_deceleration
15-20	1	44.0	14.99	66.18	0.31
20-25	0	nan	nan	nan	nan
25-30	584	60.4	14.96	66.45	1.2
30-35	531	57.76	14.97	74.06	1.21
35-40	438	57.11	14.98	86.57	1.26
40-45	343	66.32	14.98	96.17	1.32
45-50	296	68.18	14.98	100.16	1.6
50-55	195	61.6	14.98	115.16	1.52
55-60	142	68.12	14.99	123.85	1.42
60-65	75	71.35	14.95	135.15	1.67
65-70	33	55.62	14.89	154.55	2.73
70-75	25	79.1	14.92	131.67	1.68
75-80	8	79.59	14.8	152.56	2.01
80-85	3	44.76	14.55	166.38	1.55