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new steam tests linux

AMD Ryzen 9 7950X 16-Core testing with a ASUS ROG CROSSHAIR X670E HERO (0805 BIOS) and NVIDIA GeForce RTX 3060 Ti 8GB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

RTX 3090 had the most wins, coming in first place for 78% of the tests.

Based on the geometric mean of all complete results, the fastest (RTX 3090) was 1.619x the speed of the slowest (RTX 3060 Ti). RTX 3080 Ti was 0.975x the speed of RTX 3090, 3080 Ti was 0.997x the speed of RTX 3080 Ti, RTX 3080 was 0.951x the speed of 3080 Ti, RTX 3070 Ti was 0.823x the speed of RTX 3080, 3060 ti was 0.812x the speed of RTX 3070 Ti, RTX 3060 Ti was 1x the speed of 3060 ti.

The results with the greatest spread from best to worst included:

F1 22 (Resolution: 3840 x 2160 - Graphics Preset: Medium) at 3.938x
F1 22 (Resolution: 3840 x 2160 - Graphics Preset: High) at 3.789x
F1 22 (Resolution: 3840 x 2160 - Graphics Preset: Ultra High) at 2.264x
Grand Theft Auto V (Resolution: 3840 x 2160 - Quality: High) at 1.917x
Grand Theft Auto V (Resolution: 2560 x 1440 - Quality: Very High) at 1.909x
Cyberpunk 2077 (Resolution: 3840 x 2160 - Graphics Setting: Ultra) at 1.888x
Cyberpunk 2077 (Resolution: 3840 x 2160 - Graphics Setting: High) at 1.84x

F1 22 (Resolution: 3840 x 2160 - Graphics Preset: Low) at 1.829x
Grand Theft Auto V (Resolution: 1920 x 1080 - Quality: Very High) at 1.791x
Cyberpunk 2077 (Resolution: 3840 x 2160 - Graphics Setting: Medium) at 1.777x.

Test Systems:

RTX 3090

Processor: AMD Ryzen 9 7950X 16-Core @ 5.88GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus + 2000GB, Graphics: NVIDIA GeForce RTX 3090 24GB, Audio: NVIDIA GA102 HD Audio, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 22.10, Kernel: 6.0.9-060009-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server 1.21.1.4, Display Driver: NVIDIA 525.53, OpenGL: 4.6.0, Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa601203
Graphics Notes: BAR1 / Visible vRAM Size: 32768 MiB - vBIOS Version: 94.02.27.00.02
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

RTX 3070 Ti

Processor: AMD Ryzen 9 7950X 16-Core @ 5.88GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus + 2000GB, Graphics: NVIDIA GeForce RTX 3070 Ti 8GB, Audio: NVIDIA GA104 HD Audio, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 22.10, Kernel: 6.0.9-060009-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server 1.21.1.4, Display Driver: NVIDIA 525.53, OpenGL: 4.6.0, Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa601203
Graphics Notes: BAR1 / Visible vRAM Size: 8192 MiB - vBIOS Version: 94.04.5b.00.02
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

RTX 3080

Processor: AMD Ryzen 9 7950X 16-Core @ 5.88GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus + 2000GB, Graphics: NVIDIA GeForce RTX 3080 10GB, Audio: NVIDIA GA102 HD Audio, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 22.10, Kernel: 6.0.9-060009-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server

1.21.1.4, Display Driver: NVIDIA 525.53, OpenGL: 4.6.0, Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa601203
Graphics Notes: BAR1 / Visible vRAM Size: 16384 MiB - vBIOS Version: 94.02.20.00.07
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

RTX 3080 Ti

3080 Ti

Processor: AMD Ryzen 9 7950X 16-Core @ 5.88GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus + 2000GB, Graphics: NVIDIA GeForce RTX 3080 Ti 12GB, Audio: NVIDIA GA102 HD Audio, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 22.10, Kernel: 6.0.9-060009-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server 1.21.1.4, Display Driver: NVIDIA 525.53, OpenGL: 4.6.0, Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa601203
Graphics Notes: BAR1 / Visible vRAM Size: 16384 MiB - vBIOS Version: 94.02.71.00.01
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

RTX 3060 Ti

3060 ti

Processor: AMD Ryzen 9 7950X 16-Core @ 5.88GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus + 2000GB, Graphics: NVIDIA GeForce RTX 3060 Ti 8GB, Audio: NVIDIA GA104 HD Audio, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 22.10, Kernel: 6.0.9-060009-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server 1.21.1.4, Display Driver: NVIDIA 525.53, OpenGL: 4.6.0, Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa601203
Graphics Notes: BAR1 / Visible vRAM Size: 8192 MiB - vBIOS Version: 94.04.25.00.2c
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	RTX 3090	RTX 3070 Ti	RTX 3080	RTX 3080 Ti	3080 Ti	RTX 3060 Ti	3060 ti

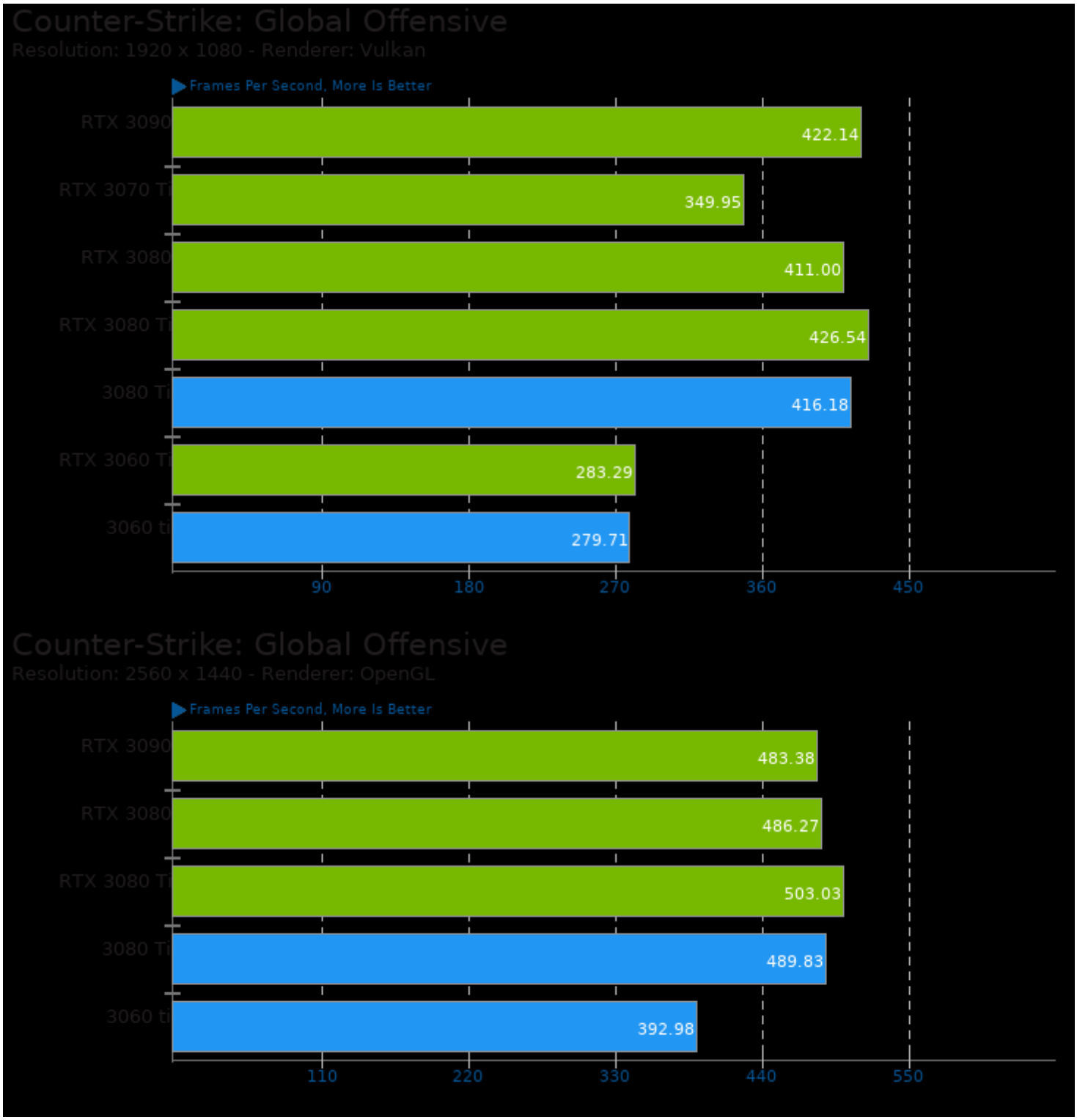
Counter-Strike: Global Offensive - 1920 x 1080 - Vulkan (FPS)	422.14	349.95	411	**426.54**	416.18	283.29	**279.71**
Normalized	98.97%	82.04%	96.36%	100%	97.57%	66.42%	65.58%
Counter-Strike: Global Offensive - 2560 x 1440 - OpenGL (FPS)	483.38		486.27	**503.03**	489.83		**392.98**
Normalized	96.09%		96.67%	100%	97.38%		78.12%
Counter-Strike: Global Offensive - 2560 x 1440 - Vulkan (FPS)	**433.53**	354.88	408.33	417.72	418.34	280.05	**278.06**
Normalized	100%	81.86%	94.19%	96.35%	96.5%	64.6%	64.14%
Counter-Strike: Global Offensive - 3840 x 2160 - OpenGL (FPS)	**357.86**	267.38	315.69	340.77	340.37	**208.84**	209.44
Normalized	100%	74.72%	88.22%	95.22%	95.11%	58.36%	58.53%
Counter-Strike: Global Offensive - 3840 x 2160 - Vulkan (FPS)	**434.07**	352.88	409.23	423.25	422.89	280.47	**278.53**
Normalized	100%	81.3%	94.28%	97.51%	97.42%	64.61%	64.17%
Cyberpunk 2077 - 1920 x 1080 - Low (FPS)	**204.41**	164.65	192.18	200.40	199.60	**134.43**	135.17
Normalized	100%	80.55%	94.02%	98.04%	97.65%	65.76%	66.13%
Cyberpunk 2077 - 2560 x 1440 - Low (FPS)	**176.1445312 5**	136.77	161.36	170.54	170.12	110.39	**110.08**
Normalized	100%	77.65%	91.61%	96.82%	96.58%	62.67%	62.49%
Cyberpunk 2077 - 3840 x 2160 - Low (FPS)	**135.90**	100.92	122.36	131.89	132.35	78.73	**78.54**
Normalized	100%	74.26%	90.04%	97.05%	97.39%	57.93%	57.79%
Cyberpunk 2077 - 1920 x 1080 - High (FPS)	**161.86**	127.14	147.90	156.60	155.91	**101.64**	101.96
Normalized	100%	78.55%	91.38%	96.75%	96.32%	62.8%	62.99%
Cyberpunk 2077 - 2560 x 1440 - High (FPS)	**122.56**	92.46	109.74	117.77	118.28	72.68	**72.44**
Normalized	100%	75.44%	89.54%	96.09%	96.51%	59.3%	59.11%
Cyberpunk 2077 - 3840 x 2160 - High (FPS)	**74.95**	53.56	65.81	72.15	72.39	**40.73**	41.16
Normalized	100%	71.46%	87.81%	96.26%	96.58%	54.34%	54.92%
Cyberpunk 2077 - 1920 x 1080 - Ultra (FPS)	**137.19**	105.68	124.62	132.07	132.46	83.89	**82.89**
Normalized	100%	77.03%	90.84%	96.27%	96.55%	61.15%	60.42%
Cyberpunk 2077 - 2560 x 1440 - Ultra (FPS)	**95.05**	70.56	84.63	91.52	90.56	**54.40**	54.72
Normalized	100%	74.23%	89.04%	96.29%	95.28%	57.23%	57.57%
Cyberpunk 2077 - 3840 x 2160 - Ultra (FPS)	**51.65**	36.59	44.85	49.68	49.14	27.73	**27.36**
Normalized	100%	70.84%	86.83%	96.19%	95.14%	53.69%	52.97%
Cyberpunk 2077 - 1920 x 1080 - Medium (FPS)	**185.74**	146.25	172.27	180.08	179.97	118.73	**118.51**
Normalized	100%	78.74%	92.75%	96.95%	96.89%	63.92%	63.8%

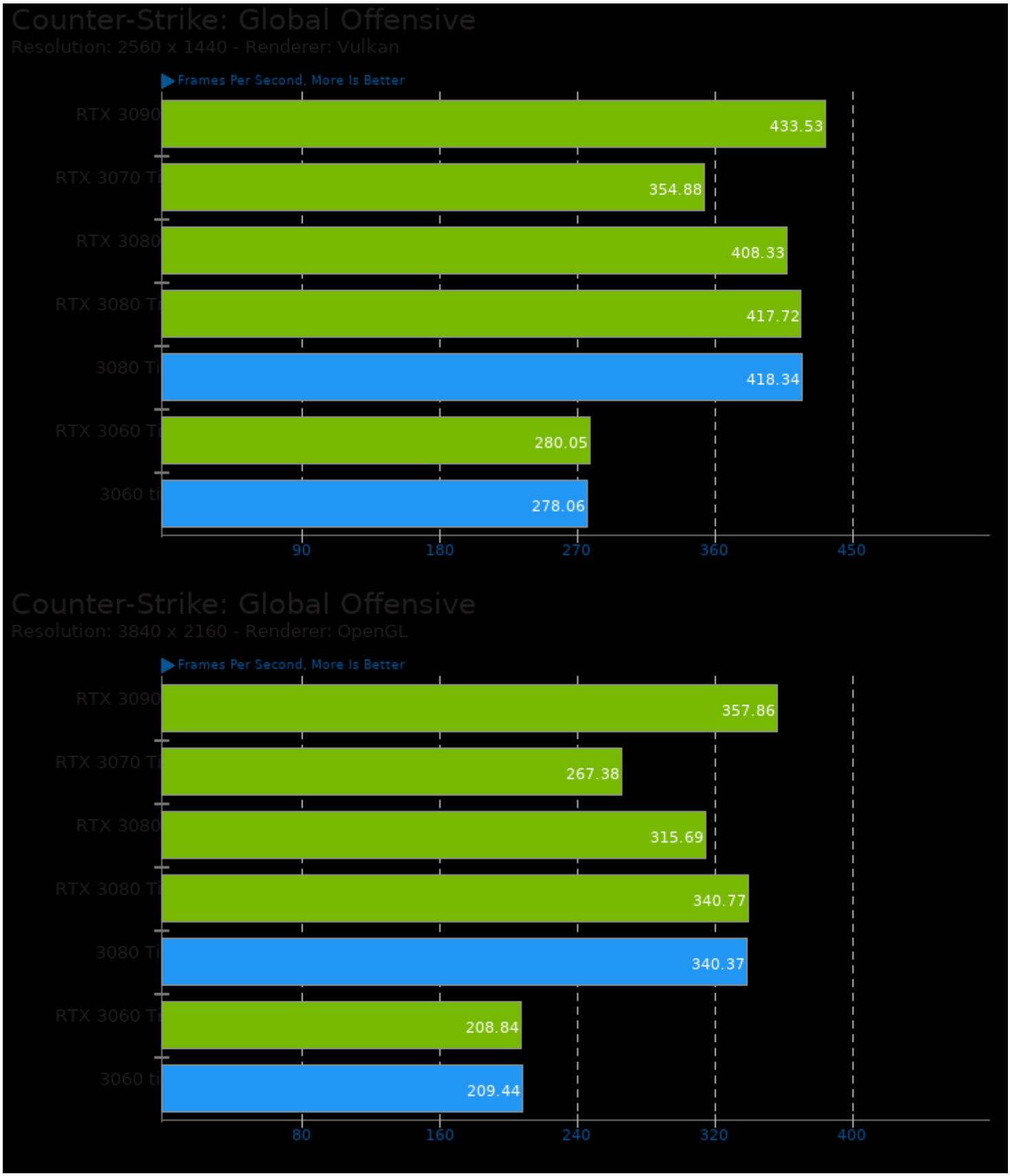
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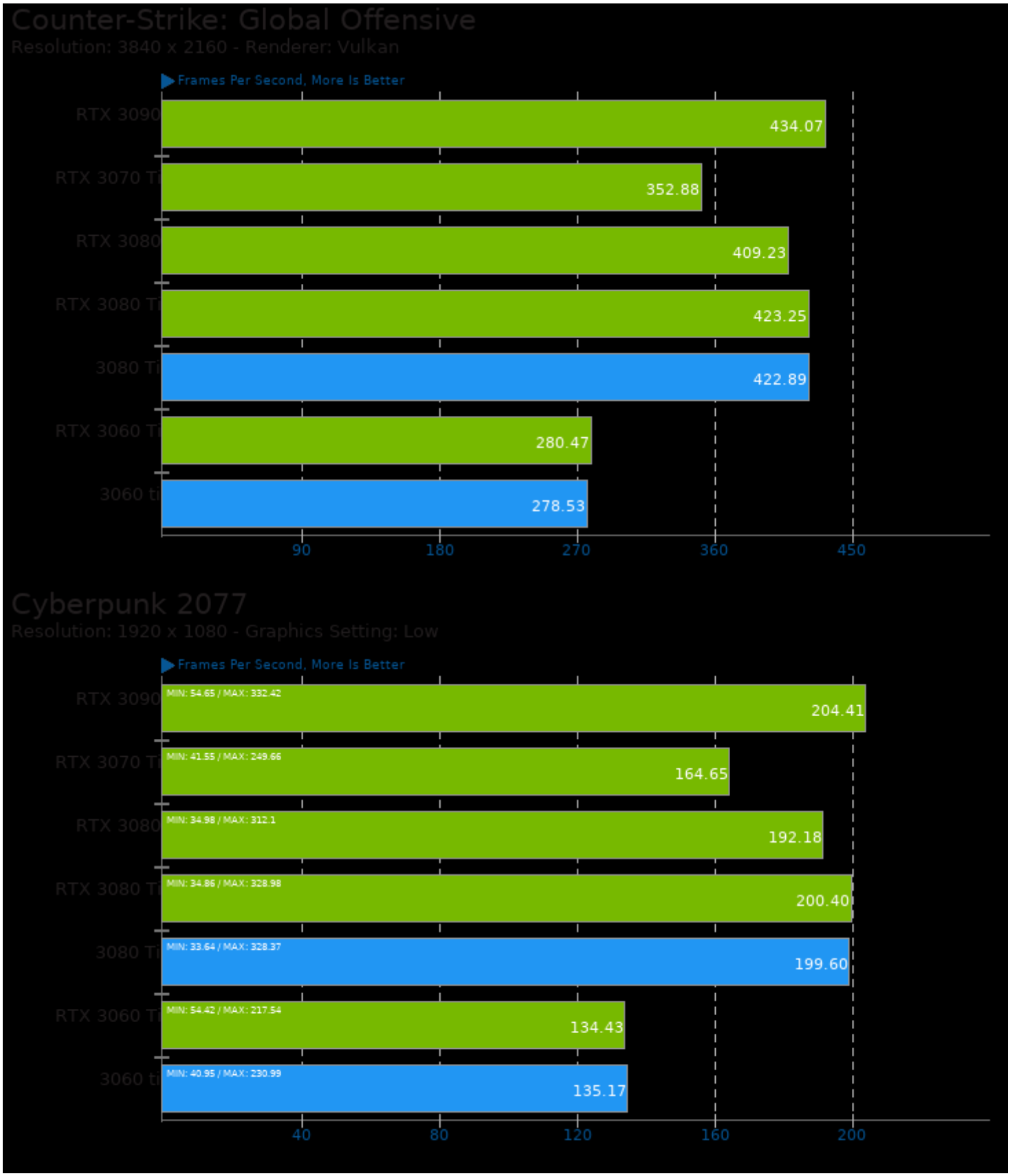
Cyberpunk 2077 - 2560 x 1440 - Medium (FPS)	**156.08**	118.03	141.29	149.96875	150.19	95.06	**94.59**
Normalized	100%	75.62%	90.52%	96.08%	96.23%	60.9%	60.6%
Cyberpunk 2077 - 3840 x 2160 - Medium (FPS)	**116.49**	85.01	103.75	112.14	112.26	**65.57**	65.74
Normalized	100%	72.98%	89.06%	96.27%	96.37%	56.29%	56.43%
F1 22 - 2560 x 1440 - Low (FPS)	**256**	239	253	254	250	**204**	**204**
Normalized	100%	93.36%	98.83%	99.22%	97.66%	79.69%	79.69%
F1 22 - 3840 x 2160 - Low (FPS)	**214**	153	188	205	204	**117**	**117**
Normalized	100%	71.5%	87.85%	95.79%	95.33%	54.67%	54.67%
F1 22 - 1920 x 1080 - High (FPS)	239	233	**250**	245	236	**192**	196
Normalized	95.6%	93.2%	100%	98%	94.4%	76.8%	78.4%
F1 22 - 2560 x 1440 - High (FPS)	**231**	178	214	224	224	**138**	**138**
Normalized	100%	77.06%	92.64%	96.97%	96.97%	59.74%	59.74%
F1 22 - 3840 x 2160 - High (FPS)	**144**	45	126	138	138	**38**	**38**
Normalized	100%	31.25%	87.5%	95.83%	95.83%	26.39%	26.39%
F1 22 - 1920 x 1080 - Medium (FPS)	264	263	**268**	266	262	**247**	251
Normalized	98.51%	98.13%	100%	99.25%	97.76%	92.16%	93.66%
F1 22 - 2560 x 1440 - Medium (FPS)	262	233	258	260	**269**	**184**	185
Normalized	97.4%	86.62%	95.91%	96.65%	100%	68.4%	68.77%
F1 22 - 3840 x 2160 - Medium (FPS)	**189**	57	169	183	183	**48**	**48**
Normalized	100%	30.16%	89.42%	96.83%	96.83%	25.4%	25.4%
F1 22 - 1920 x 1080 - Ultra High (FPS)	**221**	182	213	215	215	**144**	147
Normalized	100%	82.35%	96.38%	97.29%	97.29%	65.16%	66.52%
F1 22 - 2560 x 1440 - Ultra High (FPS)	**188**	141	172	182	182	110	**109**
Normalized	100%	75%	91.49%	96.81%	96.81%	58.51%	57.98%
F1 22 - 3840 x 2160 - Ultra High (FPS)	**120**	73	105	114	114	54	**53**
Normalized	100%	60.83%	87.5%	95%	95%	45%	44.17%
Grand Theft Auto V - 1920 x 1080 - High (FPS)	181.581184	**182.072655**	180.60223	181.892009	180.56641	177.226066	**177.195564**
Normalized	99.73%	100%	99.19%	99.9%	99.17%	97.34%	97.32%
Grand Theft Auto V - 2560 x 1440 - High (FPS)	**181.971334**	157.251306	178.499187	181.022774	180.452607	**118.976319**	119.327999
Normalized	100%	86.42%	98.09%	99.48%	99.17%	65.38%	65.58%
Grand Theft Auto V - 3840 x 2160 - High (FPS)	**113.300419**	79.53581	97.57541	109.379883	109.725666	59.24845	**59.096295**
Normalized	100%	70.2%	86.12%	96.54%	96.84%	52.29%	52.16%
Grand Theft Auto V - 1920 x 1080 - Normal (FPS)	186.701788	**187.297796**	186.212903	**185.518491**	186.493474	185.97353	186.182414
Normalized	99.68%	100%	99.42%	99.05%	99.57%	99.29%	99.4%

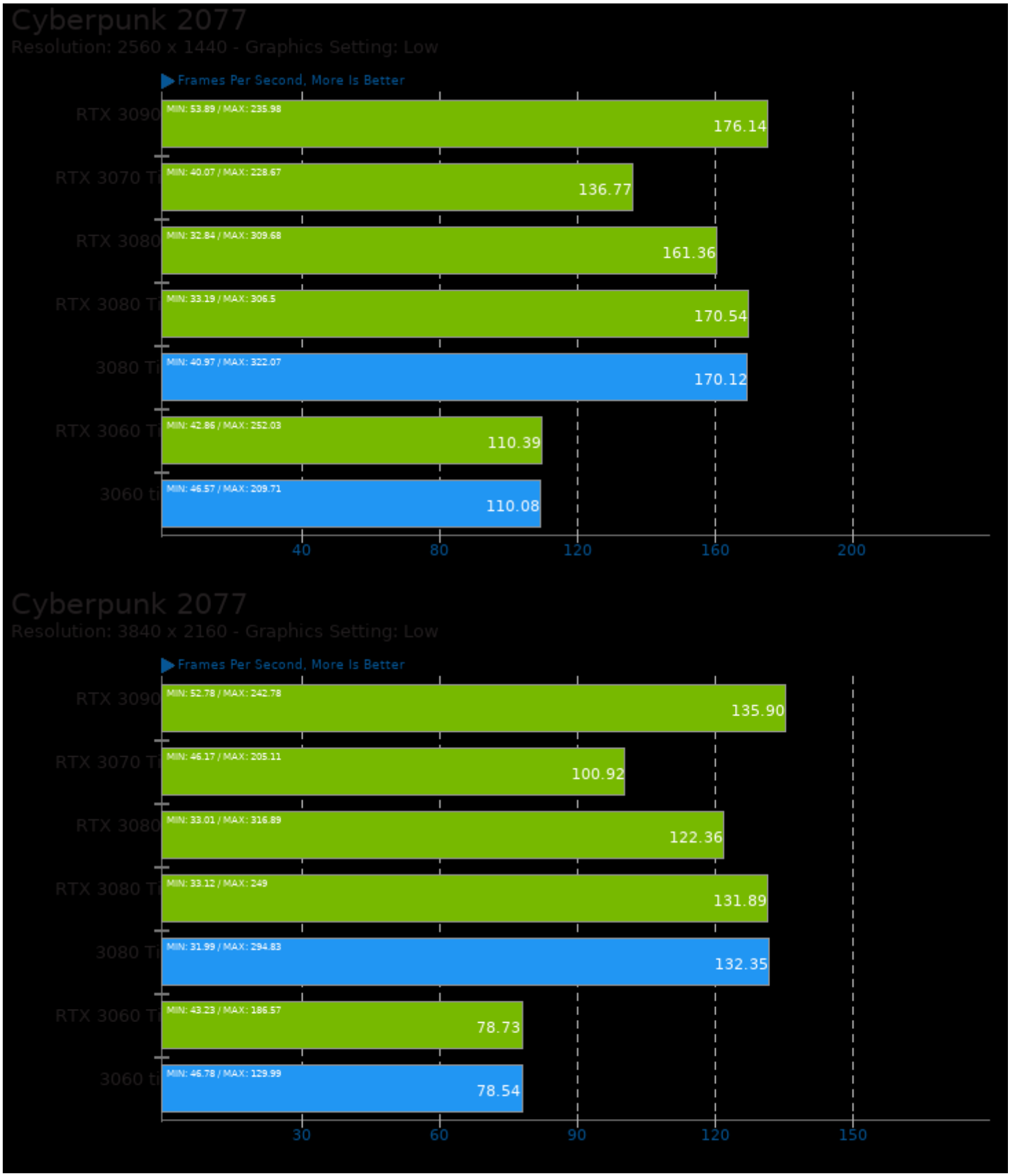
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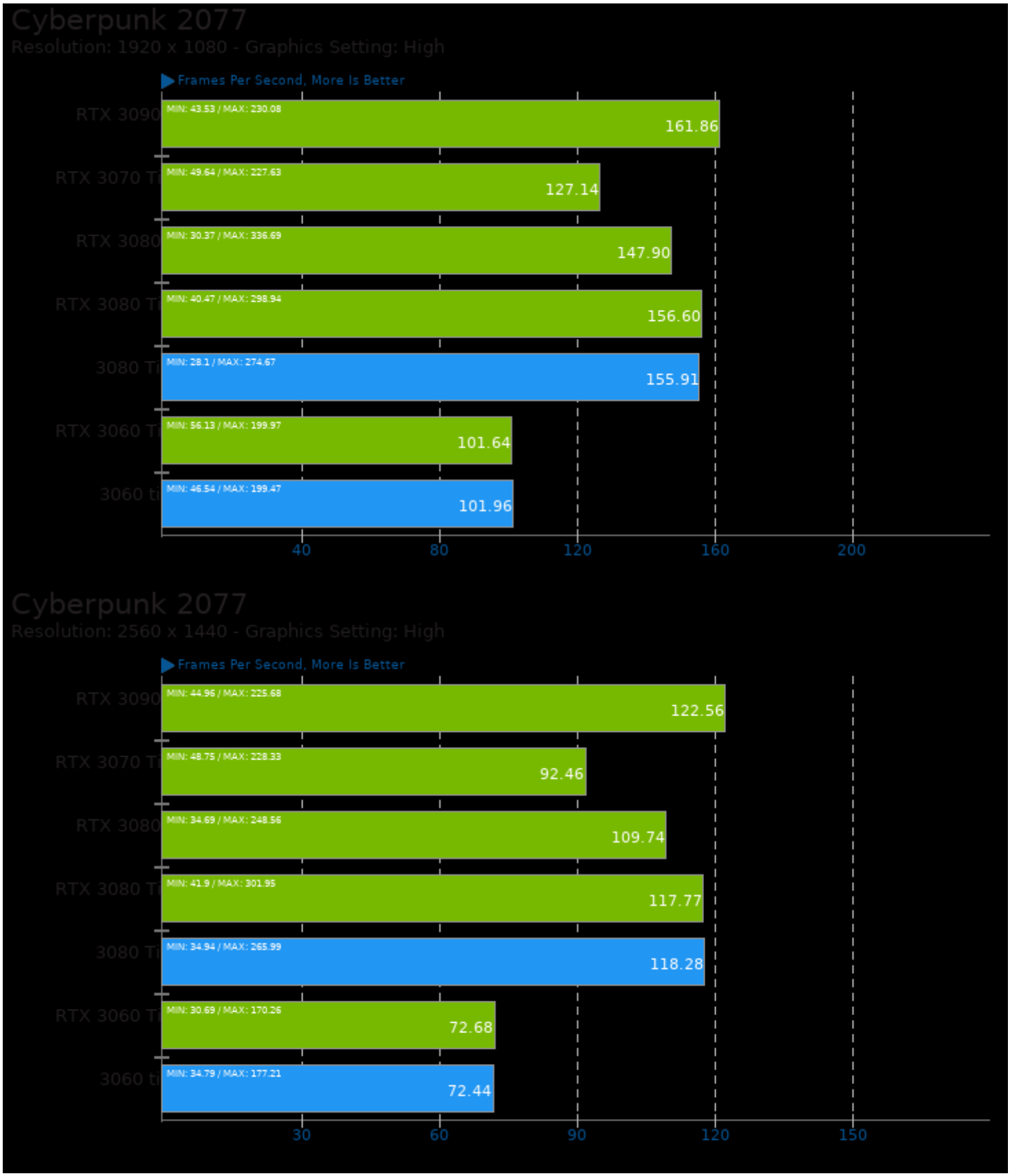
Grand Theft Auto V - 2560 x 1440 - Normal (FPS)	**187.205632**	186.524431	185.980169	186.467577	186.297799	186.387546	**185.800965**
Normalized	100%	99.64%	99.35%	99.61%	99.52%	99.56%	99.25%
Grand Theft Auto V - 3840 x 2160 - Normal (FPS)	186.277259	**186.351554**	185.489956	185.521221	185.477242	**185.099482**	185.183475
Normalized	99.96%	100%	99.54%	99.55%	99.53%	99.33%	99.37%
Grand Theft Auto V - 1920 x 1080 - Very High (FPS)	**162.962502**	120.179985	143.064402	157.894221	157.650779	91.21923	**90.988356**
Normalized	100%	73.75%	87.79%	96.89%	96.74%	55.98%	55.83%
Grand Theft Auto V - 2560 x 1440 - Very High (FPS)	**105.850637**	74.678995	90.519619	101.736373	101.384586	**55.449454**	55.598449
Normalized	100%	70.55%	85.52%	96.11%	95.78%	52.38%	52.53%
Grand Theft Auto V - 3840 x 2160 - Very High (FPS)	**51.169689**	38.907218	43.225458	49.057103	48.984474	**30.506699**	30.74799
Normalized	100%	76.04%	84.47%	95.87%	95.73%	59.62%	60.09%

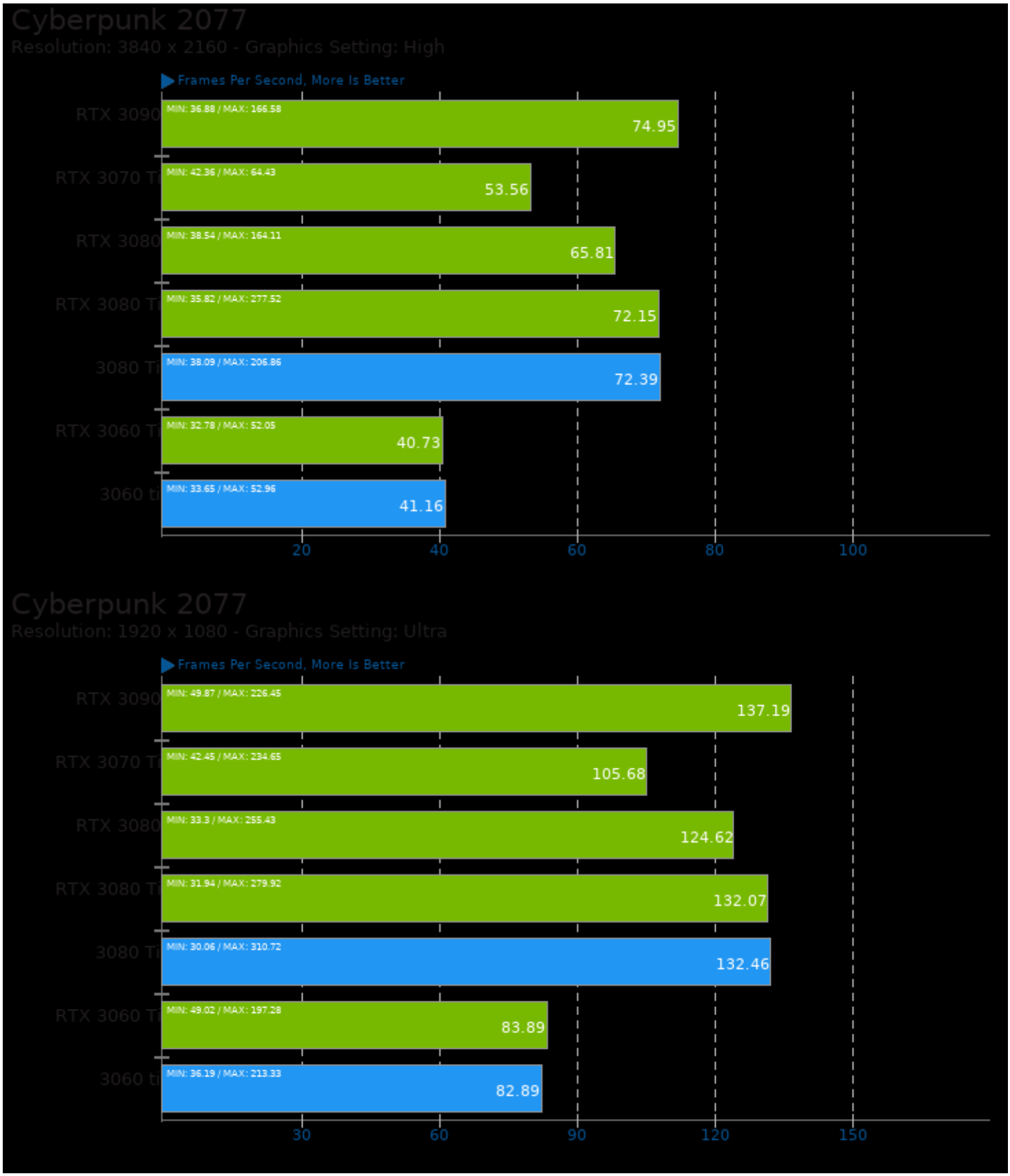

Counter-Strike: Global Offensive
Resolution: 1920 x 1080 - Renderer: Vulkan
Frames Per Second, More Is Better
RTX 3090
422.14
RTX 3070 Ti
349.95
RTX 3080
411.00
RTX 3080 Ti
426.54
3080 Ti
416.18
RTX 3060 Ti
283.29
3060 ti
279.71
90
180
270
360
450
Counter-Strike: Global Offensive
Resolution: 2560 x 1440 - Renderer: OpenGL
Frames Per Second, More Is Better
RTX 3090
483.38
RTX 3080
486.27
RTX 3080 Ti
503.03
3080 Ti
489.83
3060 ti
392.98
110
220
330
440
550

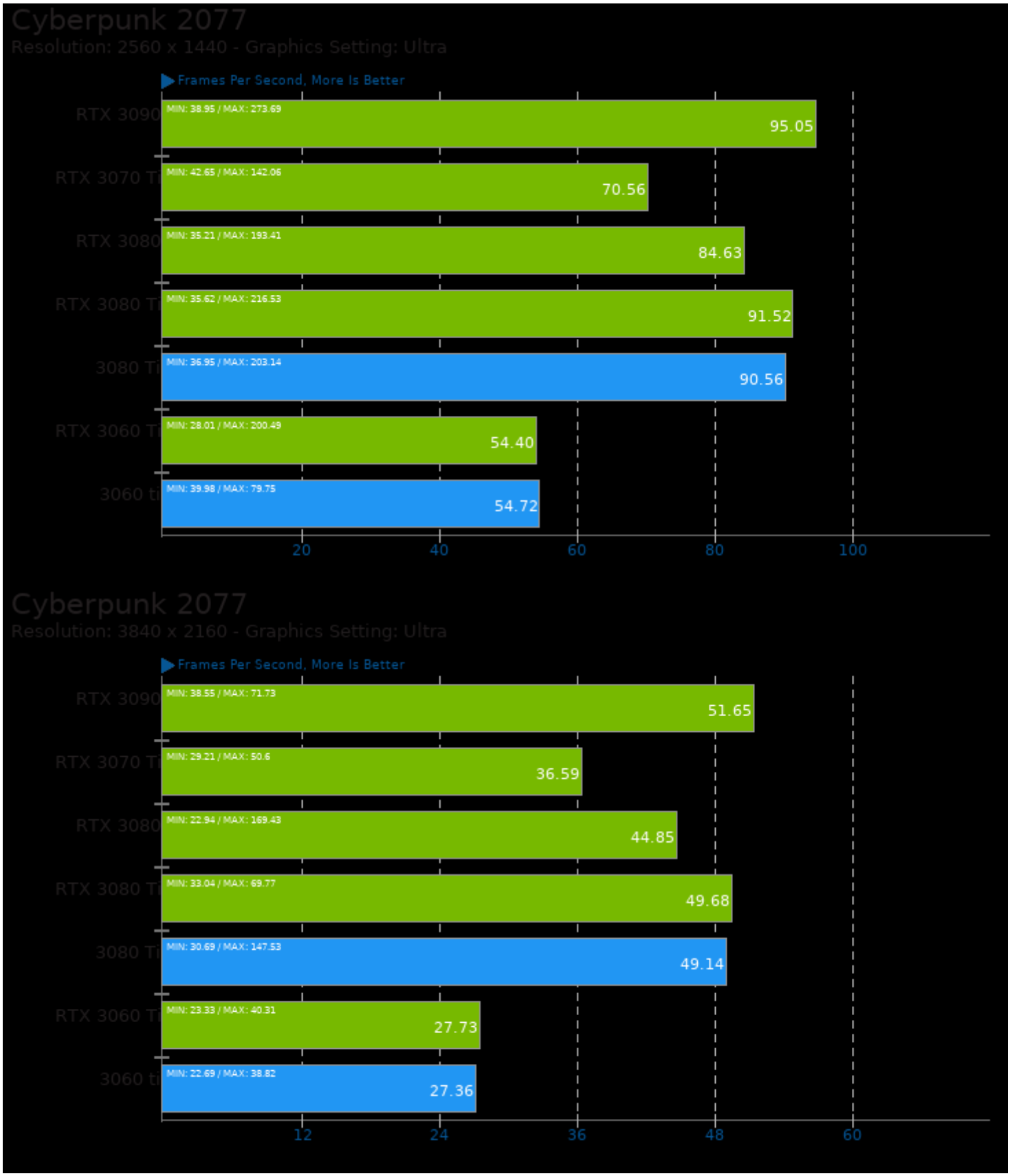

Counter-Strike: Global Offensive
Resolution: 2560 x 1440 - Renderer: Vulkan
Frames Per Second, More Is Better
RTX 3090
433.53
RTX 3070 Ti
354.88
RTX 3080
408.33
RTX 3080 Ti
417.72
3080 Ti
418.34
RTX 3060 Ti
280.05
3060 ti
278.06
90
180
270
360
450
Counter-Strike: Global Offensive
Resolution: 3840 x 2160 - Renderer: OpenGL
Frames Per Second, More Is Better
RTX 3090
357.86
RTX 3070 Ti
267.38
RTX 3080
315.69
RTX 3080 Ti
340.77
3080 Ti
340.37
RTX 3060 Ti
208.84
3060 ti
209.44
80
160
240
320
400

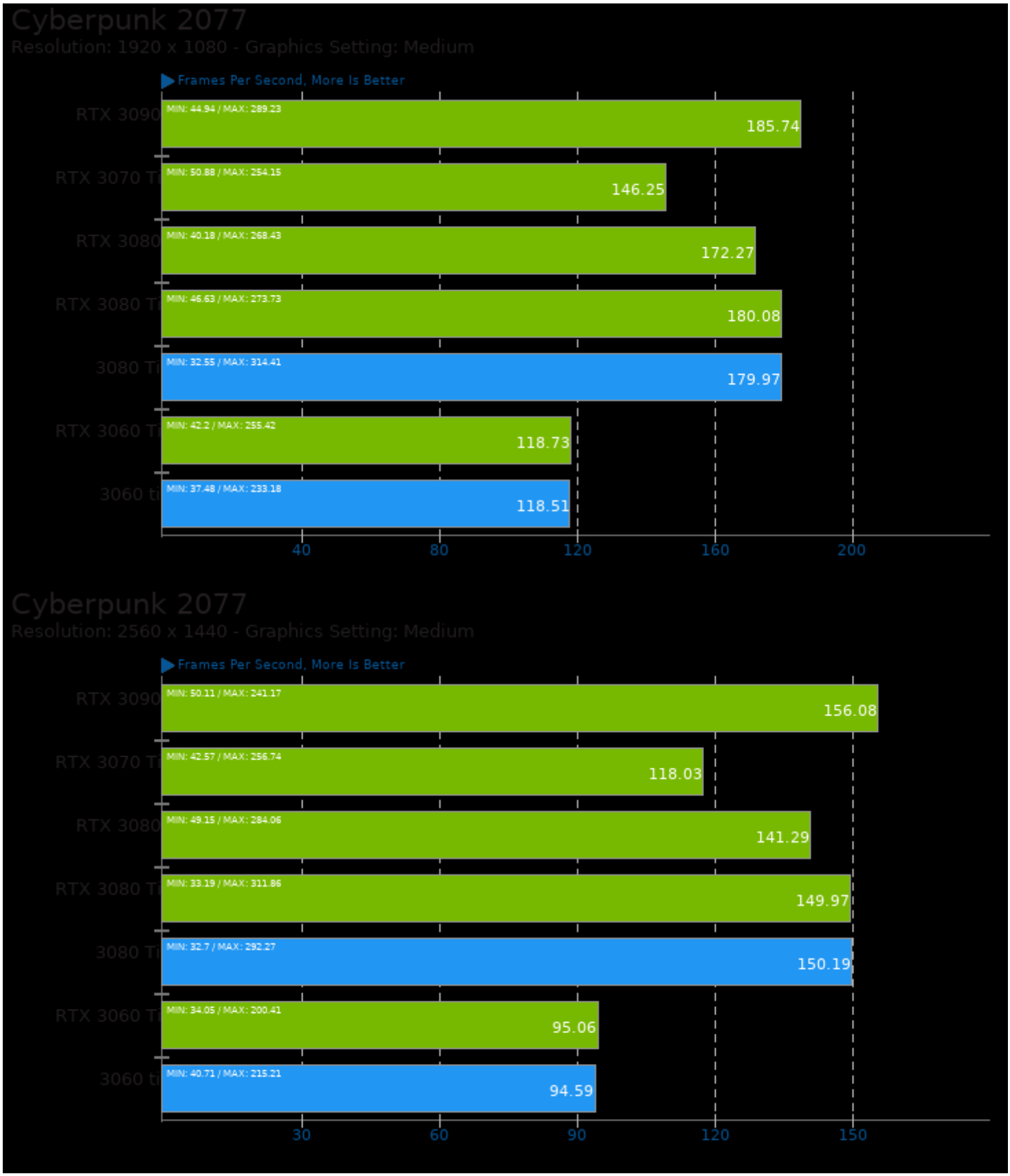

Counter-Strike: Global Offensive
Resolution: 3840 x 2160 - Renderer: Vulkan
Frames Per Second, More Is Better
RTX 3090
434.07
RTX 3070 Ti
352.88
RTX 3080
409.23
RTX 3080 Ti
423.25
3080 Ti
422.89
RTX 3060 Ti
280.47
3060 ti
278.53
90
180
270
360
450
Cyberpunk 2077
Resolution: 1920 x 1080 - Graphics Setting: Low
Frames Per Second, More Is Better
RTX 3090
MIN: 54.65 / MAX: 332.42
204.41
RTX 3070 Ti
MIN: 41.55 / MAX: 249.66
164.65
RTX 3080
MIN: 34.98 / MAX: 312.1
192.18
RTX 3080 Ti
MIN: 34.86 / MAX: 328.98
200.40
3080 Ti
MIN: 33.64 / MAX: 328.37
199.60
RTX 3060 Ti
MIN: 54.42 / MAX: 217.54
134.43
3060 ti
MIN: 40.95 / MAX: 230.99
135.17
40
80
120
160
200

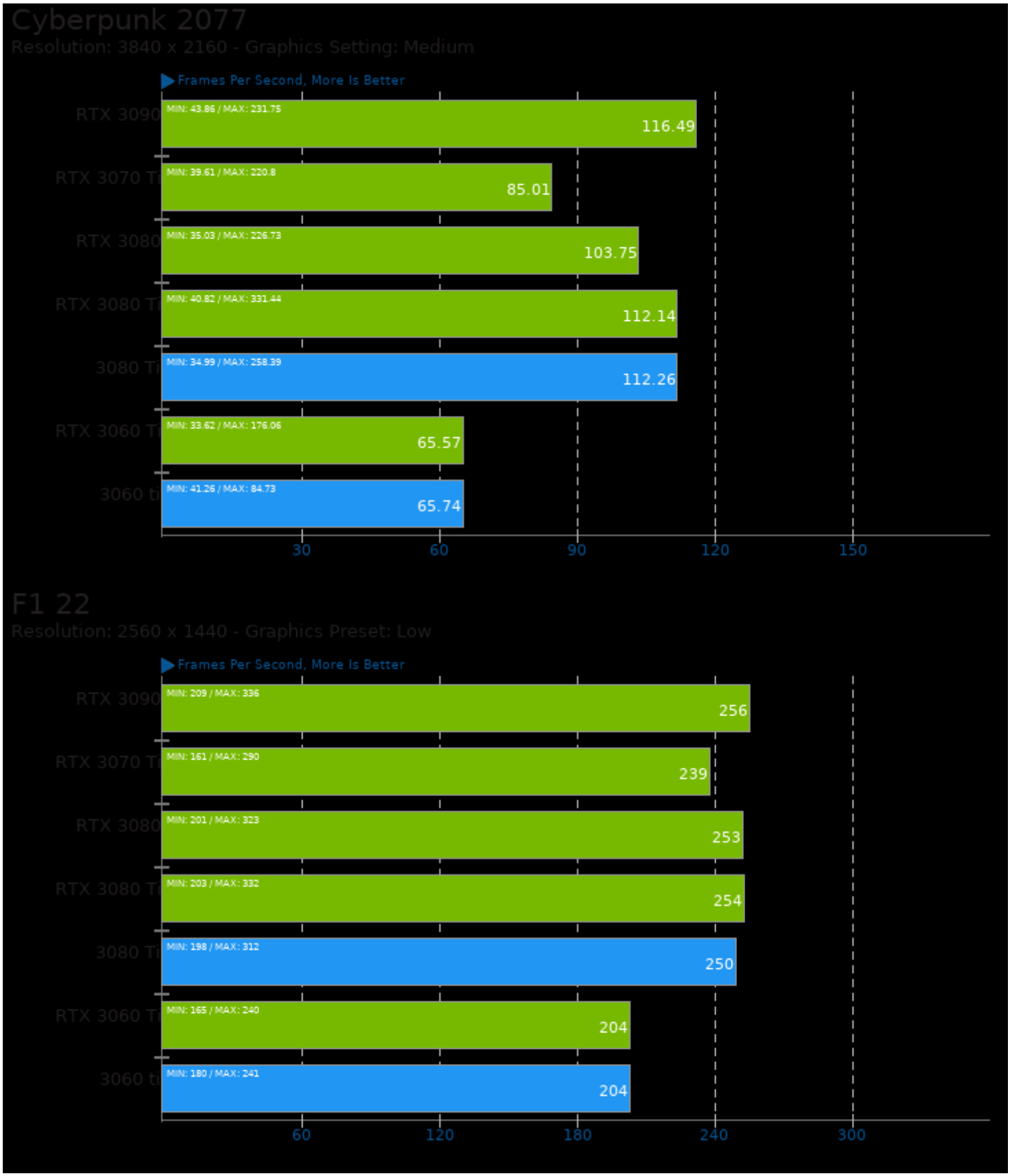

Cyberpunk 2077
Resolution: 2560 x 1440 - Graphics Setting: Low
Frames Per Second, More Is Better
RTX 3090
MIN: 53.89 / MAX: 235.98
176.14
RTX 3070 Ti
MIN: 40.07 / MAX: 228.67
136.77
RTX 3080
MIN: 32.84 / MAX: 309.68
161.36
RTX 3080 Ti
MIN: 33.19 / MAX: 306.5
170.54
3080 Ti
MIN: 40.97 / MAX: 322.07
170.12
RTX 3060 Ti
MIN: 42.86 / MAX: 252.03
110.39
3060 ti
MIN: 46.57 / MAX: 209.71
110.08
40
80
120
160
200
Cyberpunk 2077
Resolution: 3840 x 2160 - Graphics Setting: Low
Frames Per Second, More Is Better
RTX 3090
MIN: 52.78 / MAX: 242.78
135.90
RTX 3070 Ti
MIN: 46.17 / MAX: 205.11
100.92
RTX 3080
MIN: 33.01 / MAX: 316.89
122.36
RTX 3080 Ti
MIN: 33.12 / MAX: 249
131.89
3080 Ti
MIN: 31.99 / MAX: 294.83
132.35
RTX 3060 Ti
MIN: 43.23 / MAX: 186.57
78.73
3060 ti
MIN: 46.78 / MAX: 129.99
78.54
30
60
90
120
150

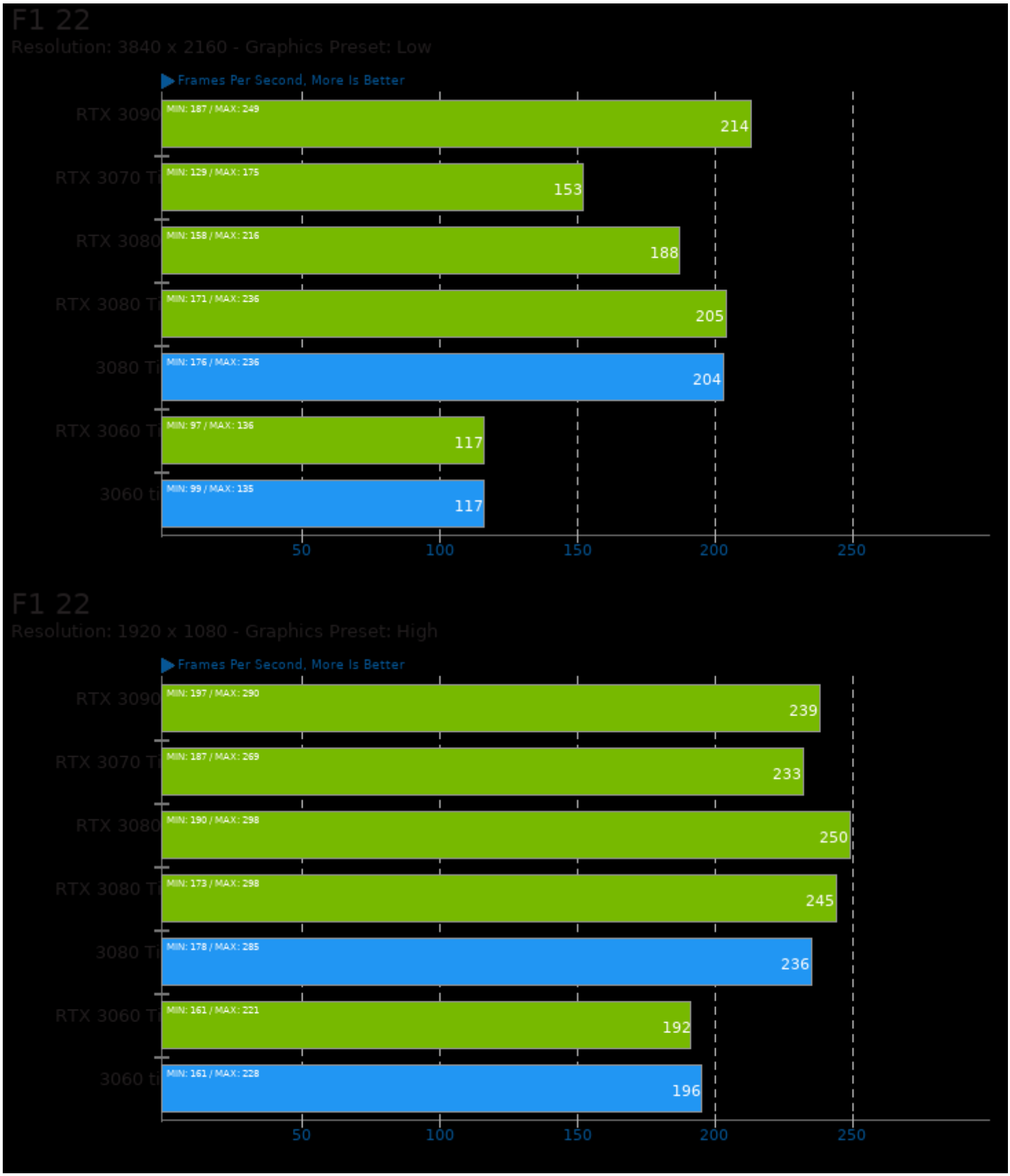

Cyberpunk 2077
Resolution: 1920 x 1080 - Graphics Setting: High
Frames Per Second, More Is Better
RTX 3090
MIN: 43.53 / MAX: 230.08
161.86
RTX 3070 Ti
MIN: 49.64 / MAX: 227.63
127.14
RTX 3080
MIN: 30.37 / MAX: 336.69
147.90
RTX 3080 Ti
MIN: 40.47 / MAX: 298.94
156.60
3080 Ti
MIN: 28.1 / MAX: 274.67
155.91
RTX 3060 Ti
MIN: 56.13 / MAX: 199.97
101.64
3060 ti
MIN: 46.54 / MAX: 199.47
101.96
40
80
120
160
200
Cyberpunk 2077
Resolution: 2560 x 1440 - Graphics Setting: High
Frames Per Second, More Is Better
RTX 3090
MIN: 44.96 / MAX: 225.68
122.56
RTX 3070 Ti
MIN: 48.75 / MAX: 228.33
92.46
RTX 3080
MIN: 34.69 / MAX: 248.56
109.74
RTX 3080 Ti
MIN: 41.9 / MAX: 301.95
117.77
3080 Ti
MIN: 34.94 / MAX: 265.99
118.28
RTX 3060 Ti
MIN: 30.69 / MAX: 170.26
72.68
3060 ti
MIN: 34.79 / MAX: 177.21
72.44
30
60
90
120
150

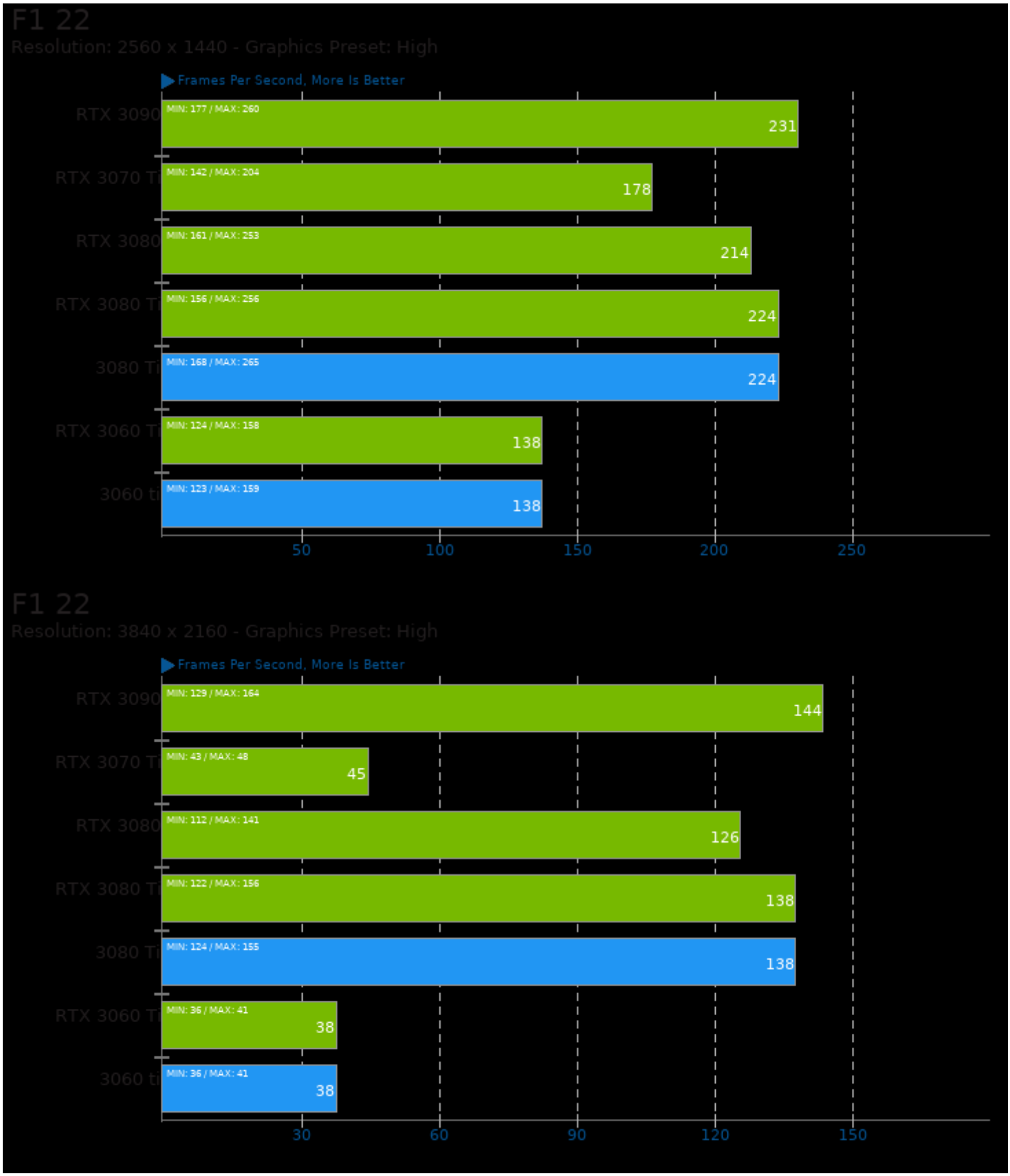

Cyberpunk 2077
Resolution: 3840 x 2160 - Graphics Setting: High
Frames Per Second, More Is Better
RTX 3090
MIN: 36.88 / MAX: 166.58
74.95
RTX 3070 Ti
MIN: 42.36 / MAX: 64.43
53.56
RTX 3080
MIN: 38.54 / MAX: 164.11
65.81
RTX 3080 Ti
MIN: 35.82 / MAX: 277.52
72.15
3080 Ti
MIN: 38.09 / MAX: 206.86
72.39
RTX 3060 Ti
MIN: 32.78 / MAX: 52.05
40.73
3060 ti
MIN: 33.65 / MAX: 52.96
41.16
20
40
60
80
100
Cyberpunk 2077
Resolution: 1920 x 1080 - Graphics Setting: Ultra
Frames Per Second, More Is Better
RTX 3090
MIN: 49.87 / MAX: 226.45
137.19
RTX 3070 Ti
MIN: 42.45 / MAX: 234.65
105.68
RTX 3080
MIN: 33.3 / MAX: 255.43
124.62
RTX 3080 Ti
MIN: 31.94 / MAX: 279.92
132.07
3080 Ti
MIN: 30.06 / MAX: 310.72
132.46
RTX 3060 Ti
MIN: 49.02 / MAX: 197.28
83.89
3060 ti
MIN: 36.19 / MAX: 213.33
82.89
30
60
90
120
150

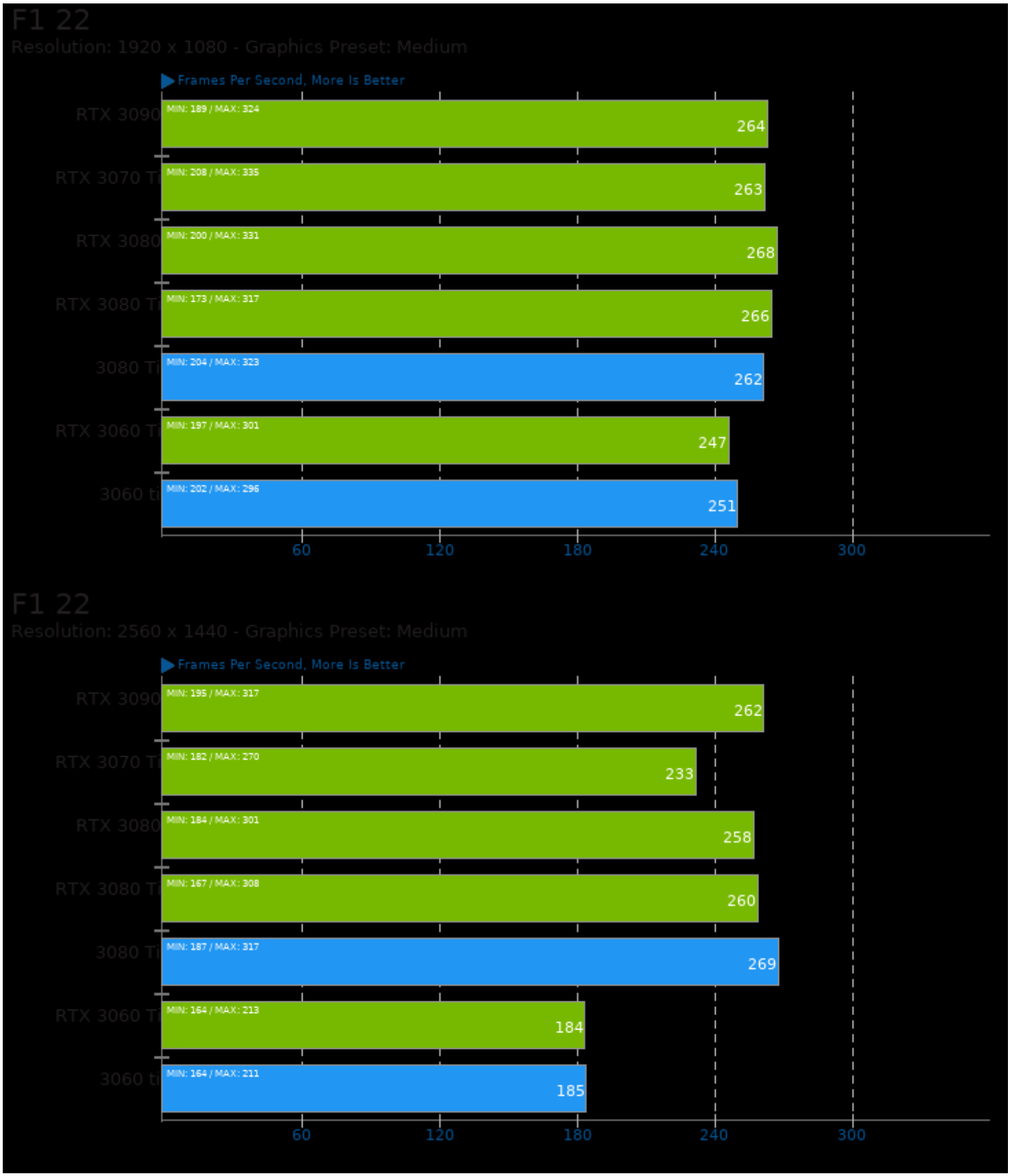

Cyberpunk 2077
Resolution: 2560 x 1440 - Graphics Setting: Ultra
Frames Per Second, More Is Better
RTX 3090
MIN: 38.95 / MAX: 273.69
95.05
RTX 3070 Ti
MIN: 42.65 / MAX: 142.06
70.56
RTX 3080
MIN: 35.21 / MAX: 193.41
84.63
RTX 3080 Ti
MIN: 35.62 / MAX: 216.53
91.52
3080 Ti
MIN: 36.95 / MAX: 203.14
90.56
RTX 3060 Ti
MIN: 28.01 / MAX: 200.49
54.40
3060 ti
MIN: 39.98 / MAX: 79.75
54.72
20
40
60
80
100
Cyberpunk 2077
Resolution: 3840 x 2160 - Graphics Setting: Ultra
Frames Per Second, More Is Better
RTX 3090
MIN: 38.55 / MAX: 71.73
51.65
RTX 3070 Ti
MIN: 29.21 / MAX: 50.6
36.59
RTX 3080
MIN: 22.94 / MAX: 169.43
44.85
RTX 3080 Ti
MIN: 33.04 / MAX: 69.77
49.68
3080 Ti
MIN: 30.69 / MAX: 147.53
49.14
RTX 3060 Ti
MIN: 23.33 / MAX: 40.31
27.73
3060 ti
MIN: 22.69 / MAX: 38.82
27.36
12
24
36
48
60

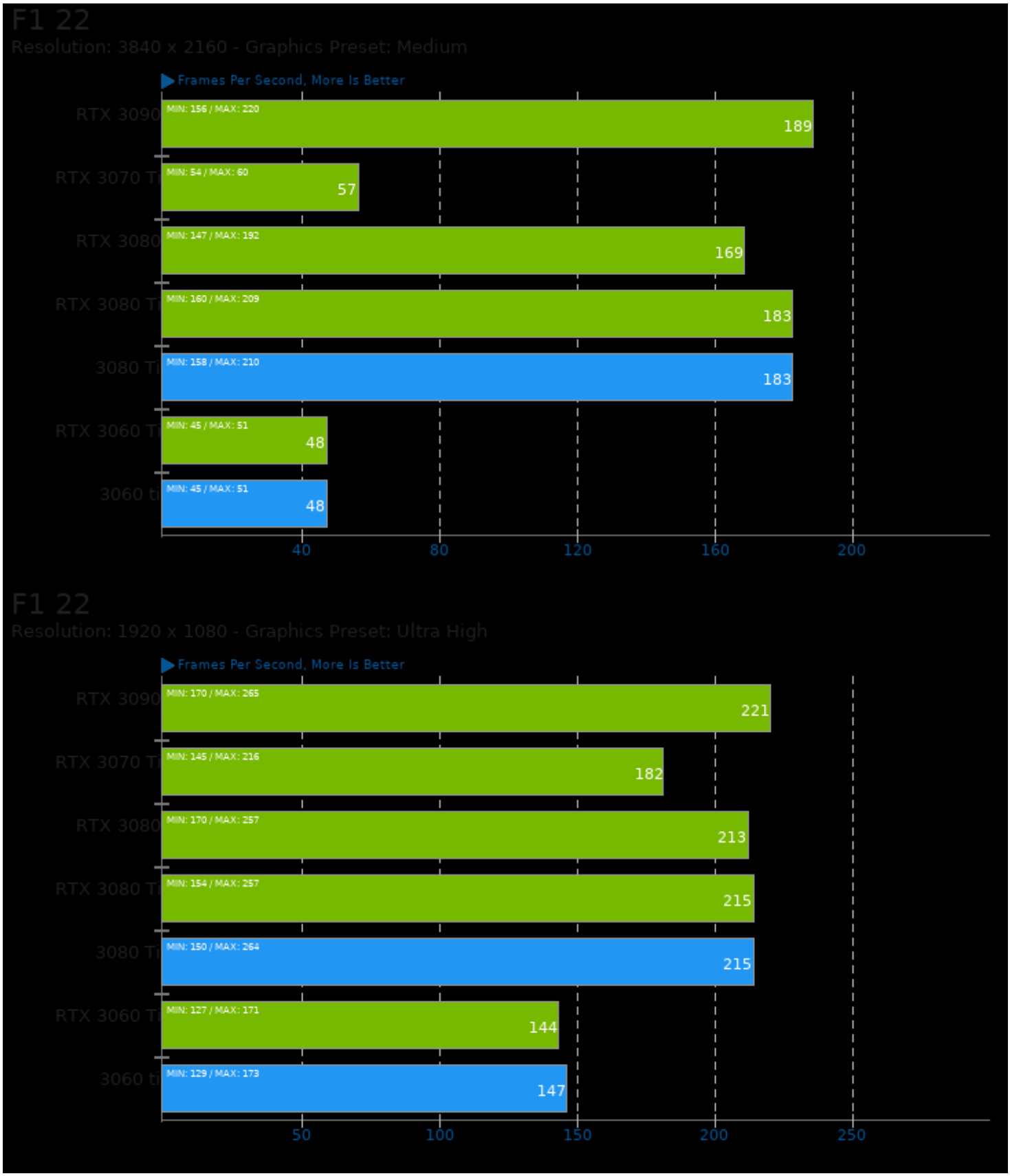

Cyberpunk 2077
Resolution: 1920 x 1080 - Graphics Setting: Medium
Frames Per Second, More Is Better
RTX 3090
MIN: 44.94 / MAX: 289.23
185.74
RTX 3070 Ti
MIN: 50.88 / MAX: 254.15
146.25
RTX 3080
MIN: 40.18 / MAX: 268.43
172.27
RTX 3080 Ti
MIN: 46.63 / MAX: 273.73
180.08
3080 Ti
MIN: 32.55 / MAX: 314.41
179.97
RTX 3060 Ti
MIN: 42.2 / MAX: 255.42
118.73
3060 ti
MIN: 37.48 / MAX: 233.18
118.51
40
80
120
160
200
Cyberpunk 2077
Resolution: 2560 x 1440 - Graphics Setting: Medium
Frames Per Second, More Is Better
RTX 3090
MIN: 50.11 / MAX: 241.17
156.08
RTX 3070 Ti
MIN: 42.57 / MAX: 256.74
118.03
RTX 3080
MIN: 49.15 / MAX: 284.06
141.29
RTX 3080 Ti
MIN: 33.19 / MAX: 311.86
149.97
3080 Ti
MIN: 32.7 / MAX: 292.27
150.19
RTX 3060 Ti
MIN: 34.05 / MAX: 200.41
95.06
3060 ti
MIN: 40.71 / MAX: 215.21
94.59
30
60
90
120
150

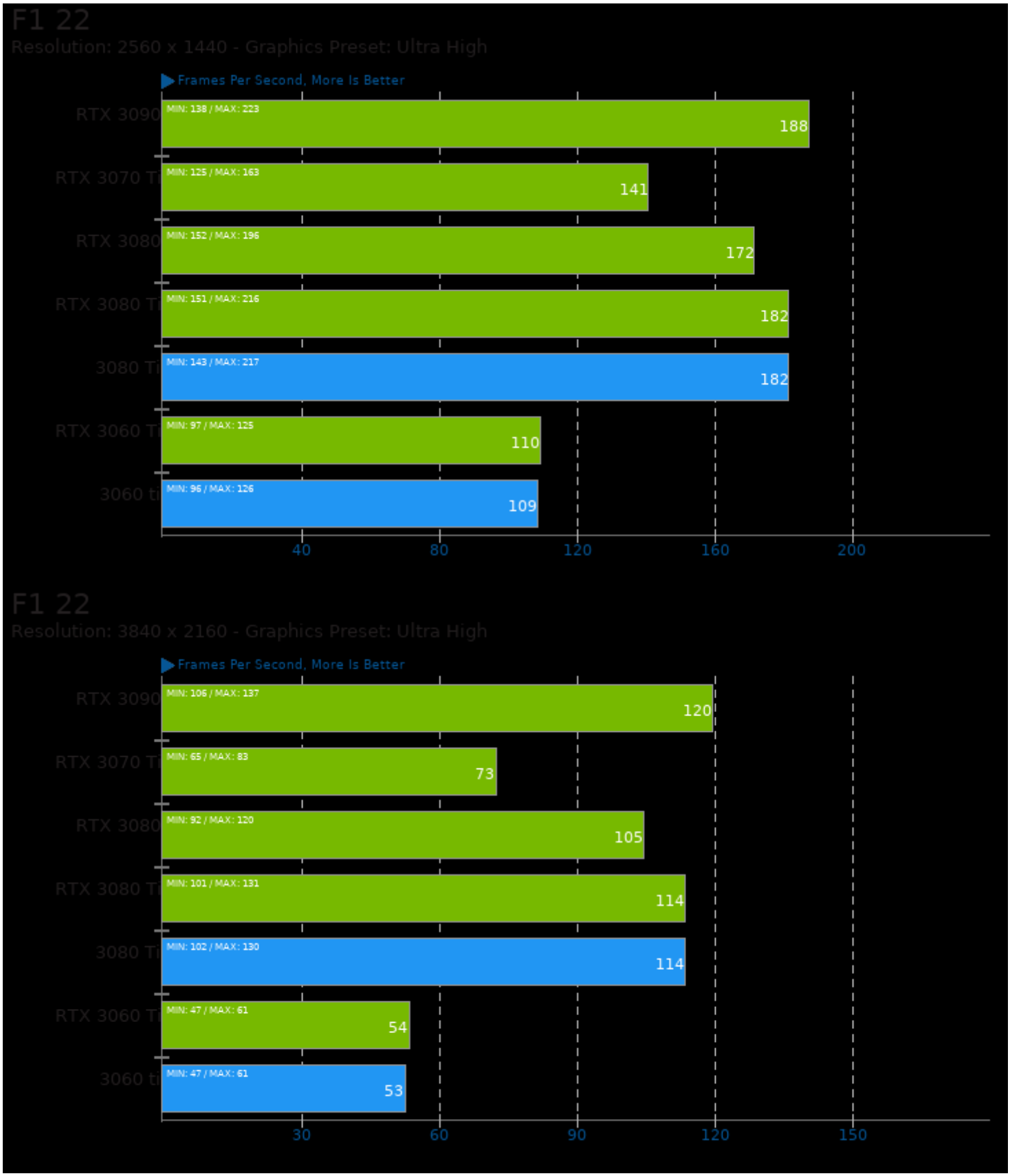

Cyberpunk 2077
Resolution: 3840 x 2160 - Graphics Setting: Medium
Frames Per Second, More Is Better
RTX 3090
MIN: 43.86 / MAX: 231.75
116.49
RTX 3070 Ti
MIN: 39.61 / MAX: 220.8
85.01
RTX 3080
MIN: 35.03 / MAX: 226.73
103.75
RTX 3080 Ti
MIN: 40.82 / MAX: 331.44
112.14
3080 Ti
MIN: 34.99 / MAX: 258.39
112.26
RTX 3060 Ti
MIN: 33.62 / MAX: 176.06
65.57
3060 ti
MIN: 41.26 / MAX: 84.73
65.74
30
60
90
120
150
F1 22
Resolution: 2560 x 1440 - Graphics Preset: Low
Frames Per Second, More Is Better
RTX 3090
MIN: 209 / MAX: 336
256
RTX 3070 Ti
MIN: 161 / MAX: 290
239
RTX 3080
MIN: 201 / MAX: 323
253
RTX 3080 Ti
MIN: 203 / MAX: 332
254
3080 Ti
MIN: 198 / MAX: 312
250
RTX 3060 Ti
MIN: 165 / MAX: 240
204
3060 ti
MIN: 180 / MAX: 241
204
60
120
180
240
300

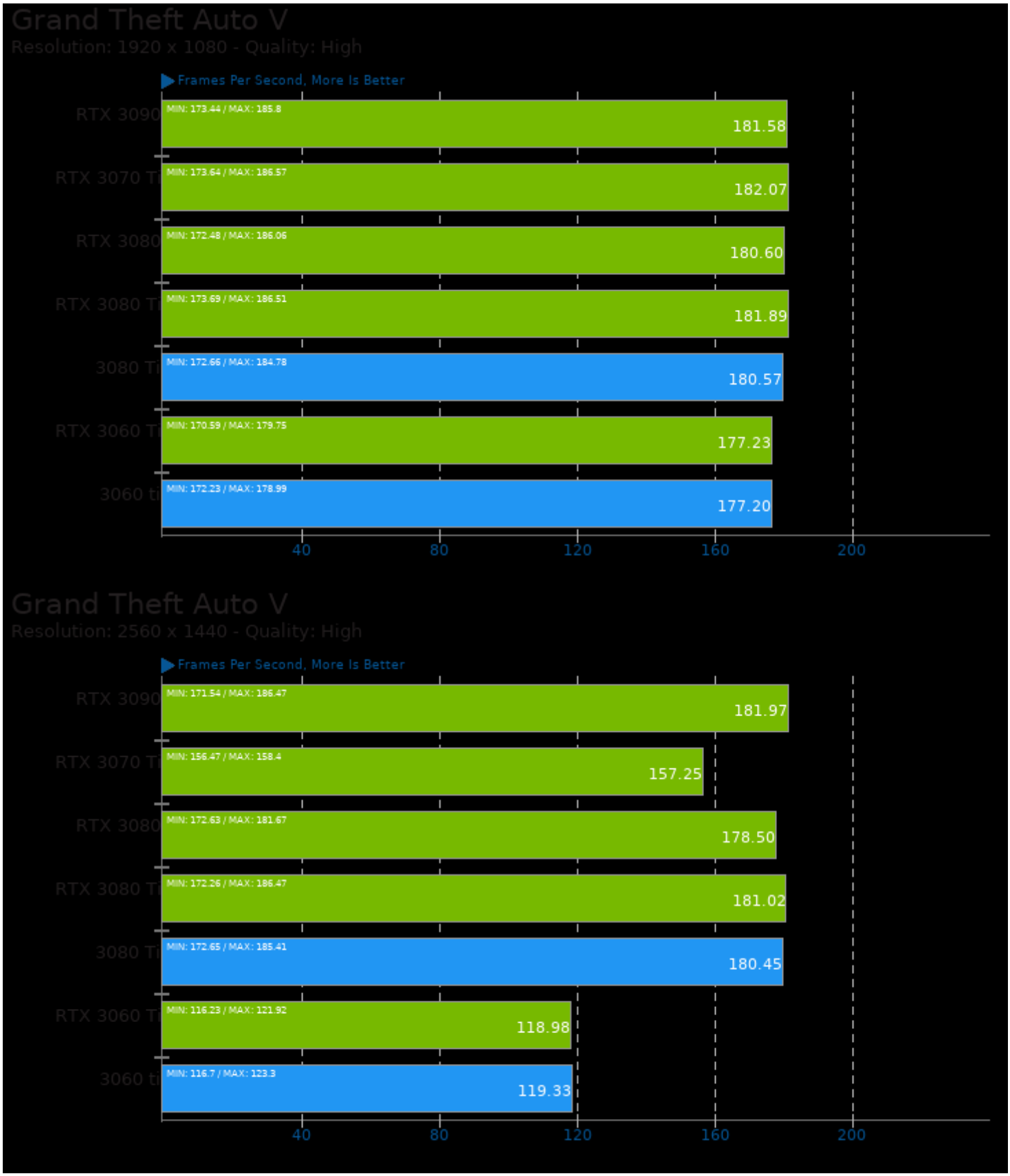

F1 22
Resolution: 3840 x 2160 - Graphics Preset: Low
Frames Per Second, More Is Better
RTX 3090
MIN: 187 / MAX: 249
214
RTX 3070 Ti
MIN: 129 / MAX: 175
153
RTX 3080
MIN: 158 / MAX: 216
188
RTX 3080 Ti
MIN: 171 / MAX: 236
205
3080 Ti
MIN: 176 / MAX: 236
204
RTX 3060 Ti
MIN: 97 / MAX: 136
117
3060 ti
MIN: 99 / MAX: 135
117
50
100
150
200
250
F1 22
Resolution: 1920 x 1080 - Graphics Preset: High
Frames Per Second, More Is Better
RTX 3090
MIN: 197 / MAX: 290
239
RTX 3070 Ti
MIN: 187 / MAX: 269
233
RTX 3080
MIN: 190 / MAX: 298
250
RTX 3080 Ti
MIN: 173 / MAX: 298
245
3080 Ti
MIN: 178 / MAX: 285
236
RTX 3060 Ti
MIN: 161 / MAX: 221
192
3060 ti
MIN: 161 / MAX: 228
196
50
100
150
200
250

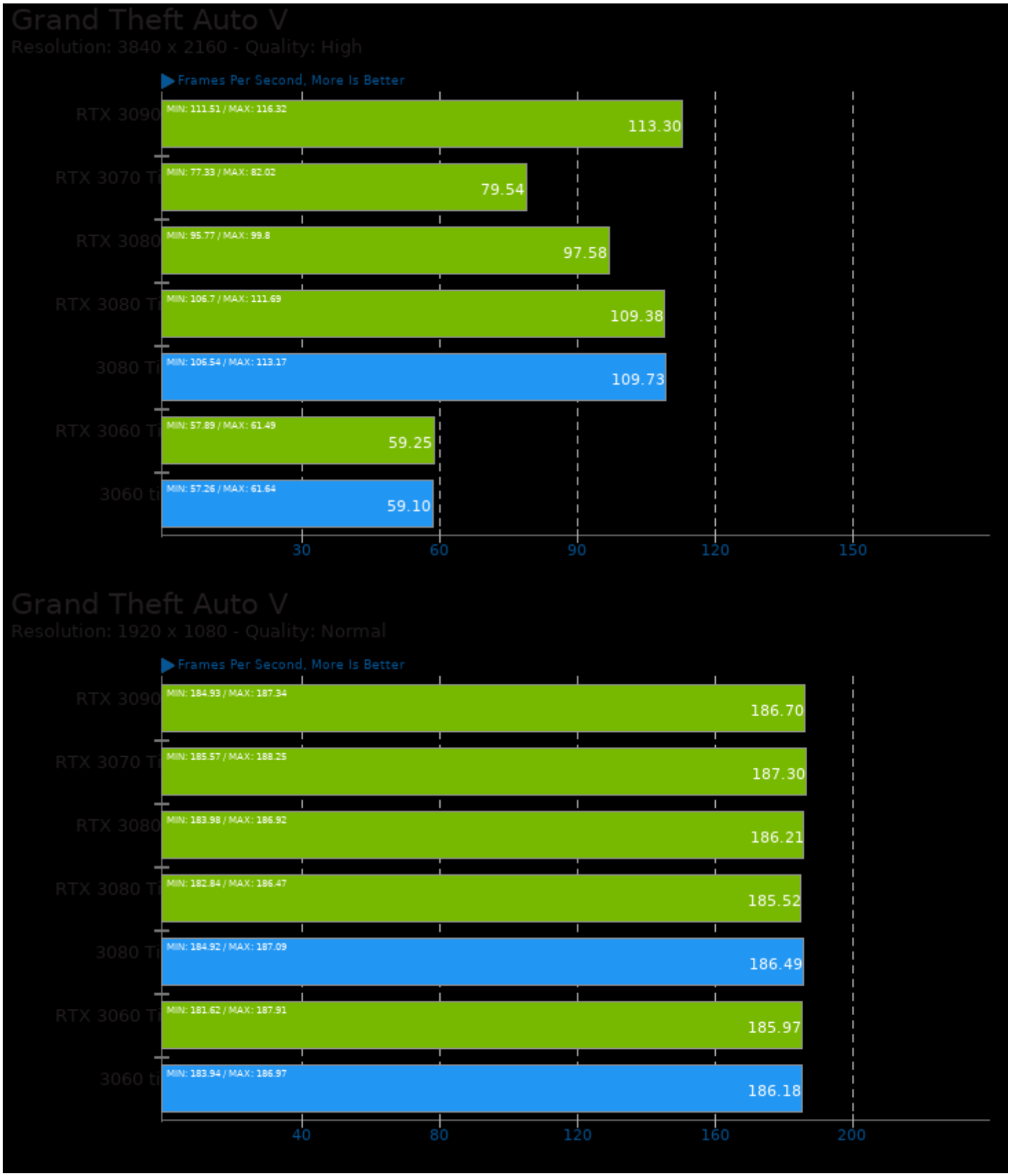

F1 22
Resolution: 2560 x 1440 - Graphics Preset: High
Frames Per Second, More Is Better
RTX 3090
MIN: 177 / MAX: 260
231
RTX 3070 Ti
MIN: 142 / MAX: 204
178
RTX 3080
MIN: 161 / MAX: 253
214
RTX 3080 Ti
MIN: 156 / MAX: 256
224
3080 Ti
MIN: 168 / MAX: 265
224
RTX 3060 Ti
MIN: 124 / MAX: 158
138
3060 ti
MIN: 123 / MAX: 159
138
50
100
150
200
250
F1 22
Resolution: 3840 x 2160 - Graphics Preset: High
Frames Per Second, More Is Better
RTX 3090
MIN: 129 / MAX: 164
144
RTX 3070 Ti
MIN: 43 / MAX: 48
45
RTX 3080
MIN: 112 / MAX: 141
126
RTX 3080 Ti
MIN: 122 / MAX: 156
138
3080 Ti
MIN: 124 / MAX: 155
138
RTX 3060 Ti
MIN: 36 / MAX: 41
38
3060 ti
MIN: 36 / MAX: 41
38
30
60
90
120
150

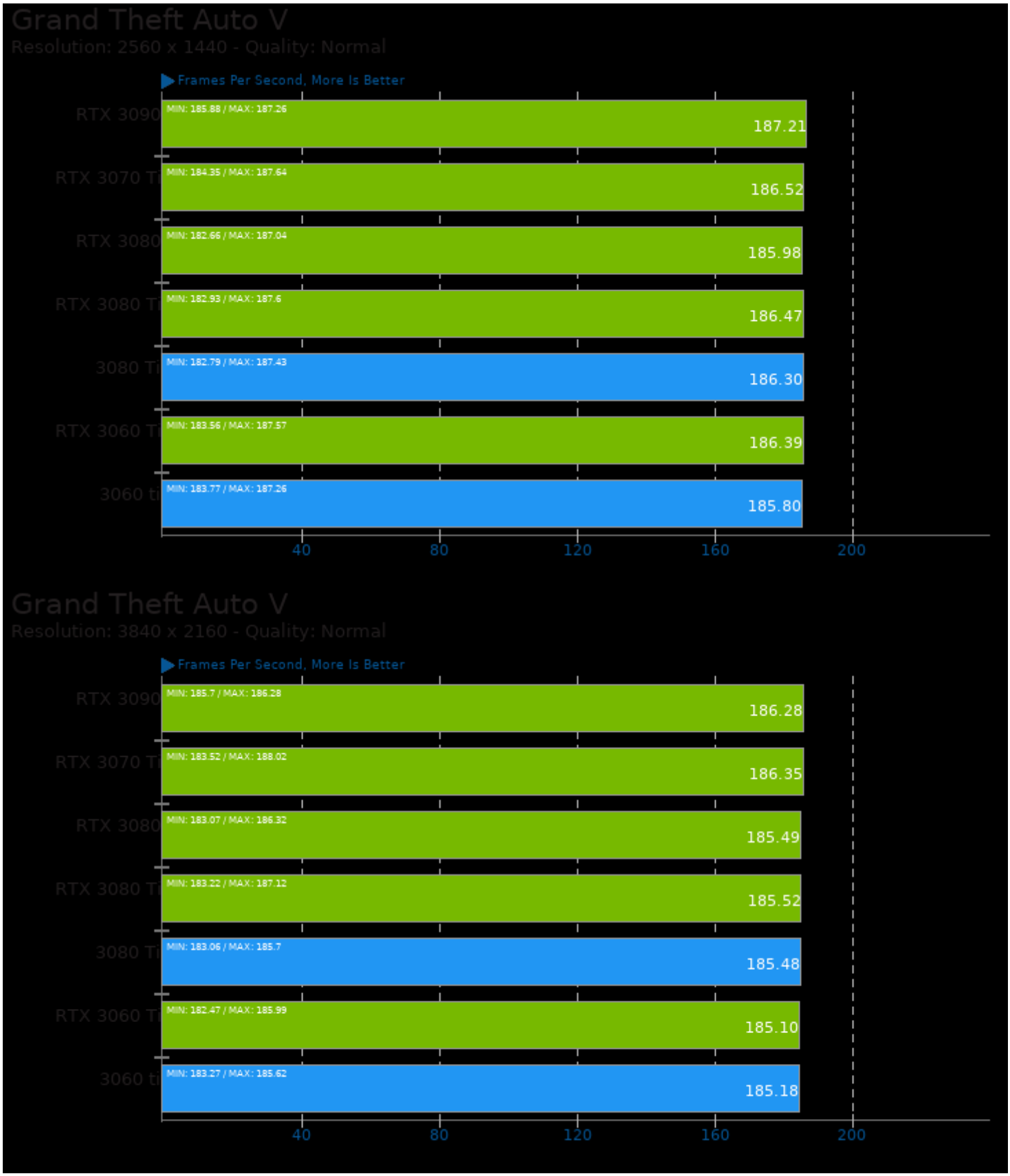

F1 22
Resolution: 1920 x 1080 - Graphics Preset: Medium
Frames Per Second, More Is Better
RTX 3090
MIN: 189 / MAX: 324
264
RTX 3070 Ti
MIN: 208 / MAX: 335
263
RTX 3080
MIN: 200 / MAX: 331
268
RTX 3080 Ti
MIN: 173 / MAX: 317
266
3080 Ti
MIN: 204 / MAX: 323
262
RTX 3060 Ti
MIN: 197 / MAX: 301
247
3060 ti
MIN: 202 / MAX: 296
251
60
120
180
240
300
F1 22
Resolution: 2560 x 1440 - Graphics Preset: Medium
Frames Per Second, More Is Better
RTX 3090
MIN: 195 / MAX: 317
262
RTX 3070 Ti
MIN: 182 / MAX: 270
233
RTX 3080
MIN: 184 / MAX: 301
258
RTX 3080 Ti
MIN: 167 / MAX: 308
260
3080 Ti
MIN: 187 / MAX: 317
269
RTX 3060 Ti
MIN: 164 / MAX: 213
184
3060 ti
MIN: 164 / MAX: 211
185
60
120
180
240
300

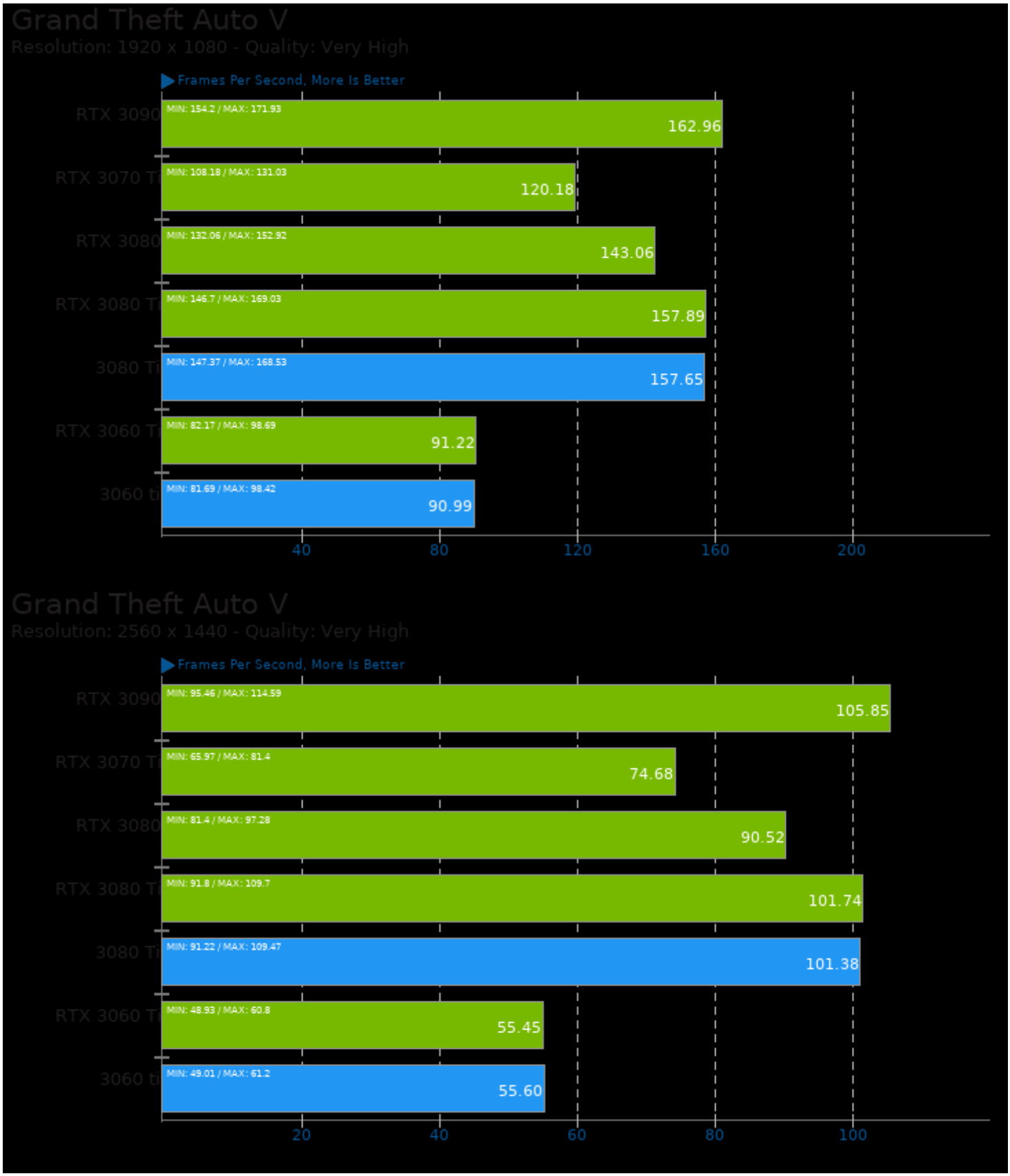

F1 22
Resolution: 3840 x 2160 - Graphics Preset: Medium
Frames Per Second, More Is Better
RTX 3090
MIN: 156 / MAX: 220
189
RTX 3070 Ti
MIN: 54 / MAX: 60
57
RTX 3080
MIN: 147 / MAX: 192
169
RTX 3080 Ti
MIN: 160 / MAX: 209
183
3080 Ti
MIN: 158 / MAX: 210
183
RTX 3060 Ti
MIN: 45 / MAX: 51
48
3060 ti
MIN: 45 / MAX: 51
48
40
80
120
160
200
F1 22
Resolution: 1920 x 1080 - Graphics Preset: Ultra High
Frames Per Second, More Is Better
RTX 3090
MIN: 170 / MAX: 265
221
RTX 3070 Ti
MIN: 145 / MAX: 216
182
RTX 3080
MIN: 170 / MAX: 257
213
RTX 3080 Ti
MIN: 154 / MAX: 257
215
3080 Ti
MIN: 150 / MAX: 264
215
RTX 3060 Ti
MIN: 127 / MAX: 171
144
3060 ti
MIN: 129 / MAX: 173
147
50
100
150
200
250


F1 22
Resolution: 2560 x 1440 - Graphics Preset: Ultra High
Frames Per Second, More Is Better
RTX 3090
MIN: 138 / MAX: 223
188
RTX 3070 Ti
MIN: 125 / MAX: 163
141
RTX 3080
MIN: 152 / MAX: 196
172
RTX 3080 Ti
MIN: 151 / MAX: 216
182
3080 Ti
MIN: 143 / MAX: 217
182
RTX 3060 Ti
MIN: 97 / MAX: 125
110
3060 ti
MIN: 96 / MAX: 126
109
40
80
120
160
200
F1 22
Resolution: 3840 x 2160 - Graphics Preset: Ultra High
Frames Per Second, More Is Better
RTX 3090
MIN: 106 / MAX: 137
120
RTX 3070 Ti
MIN: 65 / MAX: 83
73
RTX 3080
MIN: 92 / MAX: 120
105
RTX 3080 Ti
MIN: 101 / MAX: 131
114
3080 Ti
MIN: 102 / MAX: 130
114
RTX 3060 Ti
MIN: 47 / MAX: 61
54
3060 ti
MIN: 47 / MAX: 61
53
30
60
90
120
150

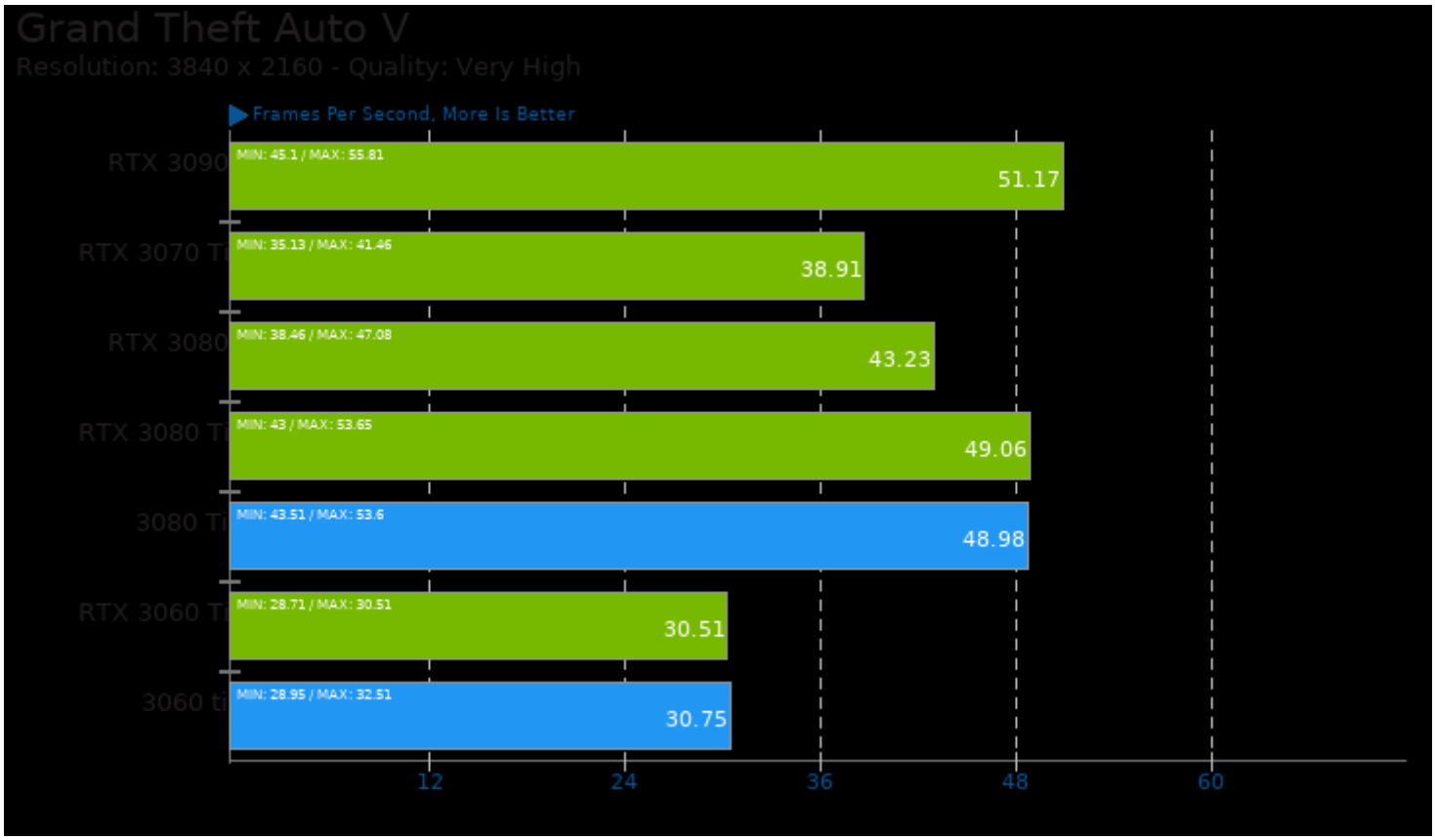

Grand Theft Auto V
Resolution: 1920 x 1080 - Quality: High
Frames Per Second, More Is Better
RTX 3090
MIN: 173.44 / MAX: 185.8
181.58
RTX 3070 Ti
MIN: 173.64 / MAX: 186.57
182.07
RTX 3080
MIN: 172.48 / MAX: 186.06
180.60
RTX 3080 Ti
MIN: 173.69 / MAX: 186.51
181.89
3080 Ti
MIN: 172.66 / MAX: 184.78
180.57
RTX 3060 Ti
MIN: 170.59 / MAX: 179.75
177.23
3060 ti
MIN: 172.23 / MAX: 178.99
177.20
40
80
120
160
200
Grand Theft Auto V
Resolution: 2560 x 1440 - Quality: High
Frames Per Second, More Is Better
RTX 3090
MIN: 171.54 / MAX: 186.47
181.97
RTX 3070 Ti
MIN: 156.47 / MAX: 158.4
157.25
RTX 3080
MIN: 172.63 / MAX: 181.67
178.50
RTX 3080 Ti
MIN: 172.26 / MAX: 186.47
181.02
3080 Ti
MIN: 172.65 / MAX: 185.41
180.45
RTX 3060 Ti
MIN: 116.23 / MAX: 121.92
118.98
3060 ti
MIN: 116.7 / MAX: 123.3
119.33
40
80
120
160
200


Grand Theft Auto V
Resolution: 3840 x 2160 - Quality: High
Frames Per Second, More Is Better
RTX 3090
MIN: 111.51 / MAX: 116.32
113.30
RTX 3070 Ti
MIN: 77.33 / MAX: 82.02
79.54
RTX 3080
MIN: 95.77 / MAX: 99.8
97.58
RTX 3080 Ti
MIN: 106.7 / MAX: 111.69
109.38
3080 Ti
MIN: 106.54 / MAX: 113.17
109.73
RTX 3060 Ti
MIN: 57.89 / MAX: 61.49
59.25
3060 ti
MIN: 57.26 / MAX: 61.64
59.10
30
60
90
120
150
Grand Theft Auto V
Resolution: 1920 x 1080 - Quality: Normal
Frames Per Second, More Is Better
RTX 3090
MIN: 184.93 / MAX: 187.34
186.70
RTX 3070 Ti
MIN: 185.57 / MAX: 188.25
187.30
RTX 3080
MIN: 183.98 / MAX: 186.92
186.21
RTX 3080 Ti
MIN: 182.84 / MAX: 186.47
185.52
3080 Ti
MIN: 184.92 / MAX: 187.09
186.49
RTX 3060 Ti
MIN: 181.62 / MAX: 187.91
185.97
3060 ti
MIN: 183.94 / MAX: 186.97
186.18
40
80
120
160
200

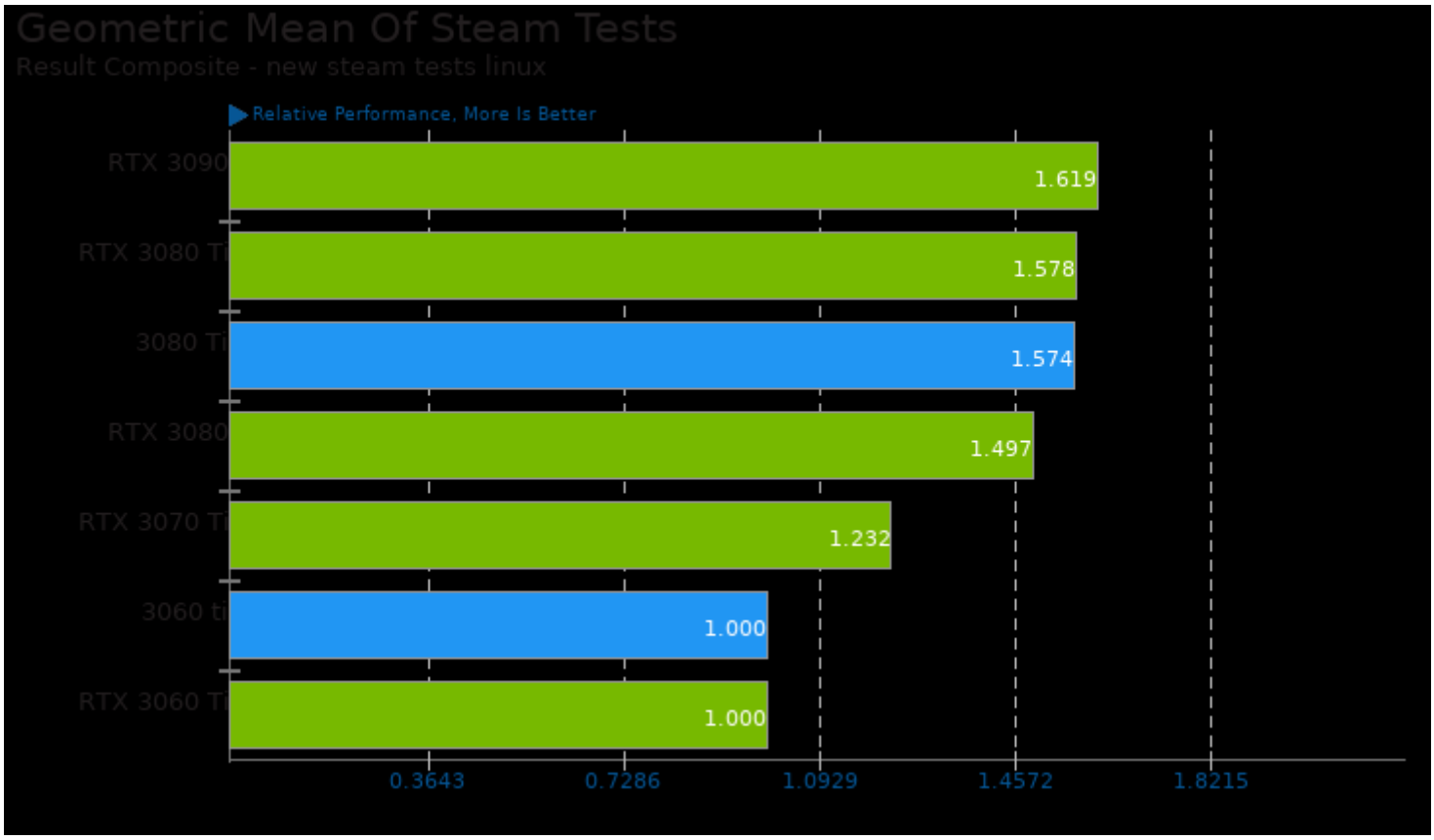

Grand Theft Auto V
Resolution: 2560 x 1440 - Quality: Normal
Frames Per Second, More Is Better
RTX 3090
MIN: 185.88 / MAX: 187.26
187.21
RTX 3070 Ti
MIN: 184.35 / MAX: 187.64
186.52
RTX 3080
MIN: 182.66 / MAX: 187.04
185.98
RTX 3080 Ti
MIN: 182.93 / MAX: 187.6
186.47
3080 Ti
MIN: 182.79 / MAX: 187.43
186.30
RTX 3060 Ti
MIN: 183.56 / MAX: 187.57
186.39
3060 ti
MIN: 183.77 / MAX: 187.26
185.80
40
80
120
160
200
Grand Theft Auto V
Resolution: 3840 x 2160 - Quality: Normal
Frames Per Second, More Is Better
RTX 3090
MIN: 185.7 / MAX: 186.28
186.28
RTX 3070 Ti
MIN: 183.52 / MAX: 188.02
186.35
RTX 3080
MIN: 183.07 / MAX: 186.32
185.49
RTX 3080 Ti
MIN: 183.22 / MAX: 187.12
185.52
3080 Ti
MIN: 183.06 / MAX: 185.7
185.48
RTX 3060 Ti
MIN: 182.47 / MAX: 185.99
185.10
3060 ti
MIN: 183.27 / MAX: 185.62
185.18
40
80
120
160
200


Grand Theft Auto V
Resolution: 1920 x 1080 - Quality: Very High
Frames Per Second, More Is Better
RTX 3090
MIN: 154.2 / MAX: 171.93
162.96
RTX 3070 Ti
MIN: 108.18 / MAX: 131.03
120.18
RTX 3080
MIN: 132.06 / MAX: 152.92
143.06
RTX 3080 Ti
MIN: 146.7 / MAX: 169.03
157.89
3080 Ti
MIN: 147.37 / MAX: 168.53
157.65
RTX 3060 Ti
MIN: 82.17 / MAX: 98.69
91.22
3060 ti
MIN: 81.69 / MAX: 98.42
90.99
40
80
120
160
200
Grand Theft Auto V
Resolution: 2560 x 1440 - Quality: Very High
Frames Per Second, More Is Better
RTX 3090
MIN: 95.46 / MAX: 114.59
105.85
RTX 3070 Ti
MIN: 65.97 / MAX: 81.4
74.68
RTX 3080
MIN: 81.4 / MAX: 97.28
90.52
RTX 3080 Ti
MIN: 91.8 / MAX: 109.7
101.74
3080 Ti
MIN: 91.22 / MAX: 109.47
101.38
RTX 3060 Ti
MIN: 48.93 / MAX: 60.8
55.45
3060 ti
MIN: 49.01 / MAX: 61.2
55.60
20
40
60
80
100

new steam tests linux



These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/csgo, pts/cyberpunk2077, pts/f122 and pts/gta5

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:24.