B Appendix

Appendix

B.1. Plots

B.1.1. Relative Decrease Heatmaps

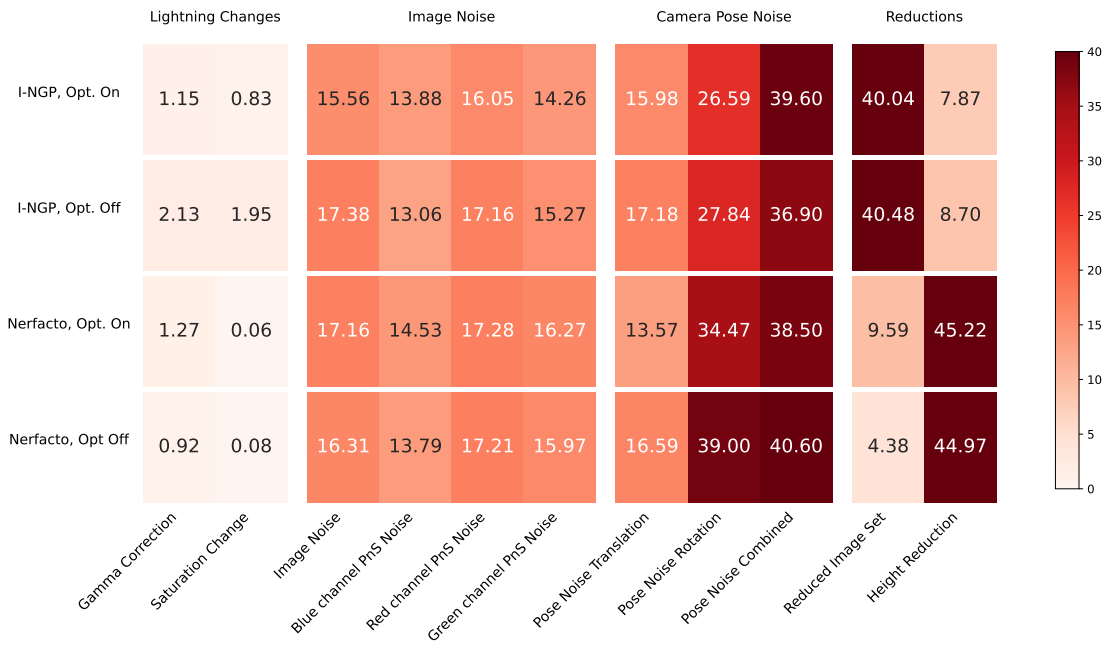

Figure B.1: Relative decrease in PSNR across all settings on “stump” dataset.

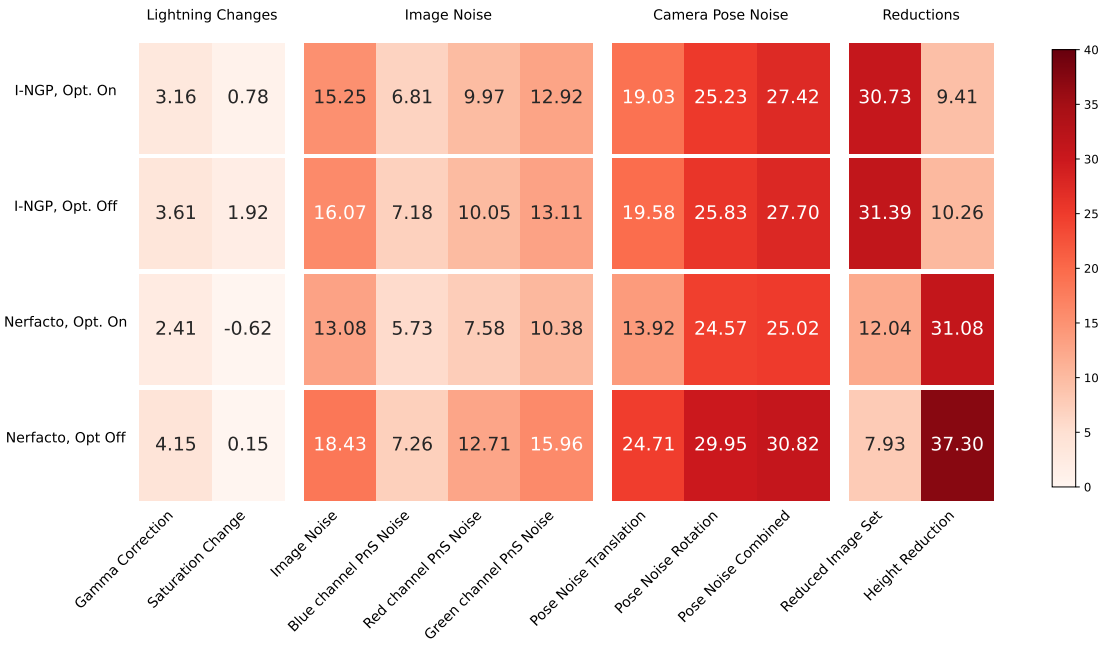

Figure B.2: Relative decrease in SSIM across all settings on “stump” dataset.

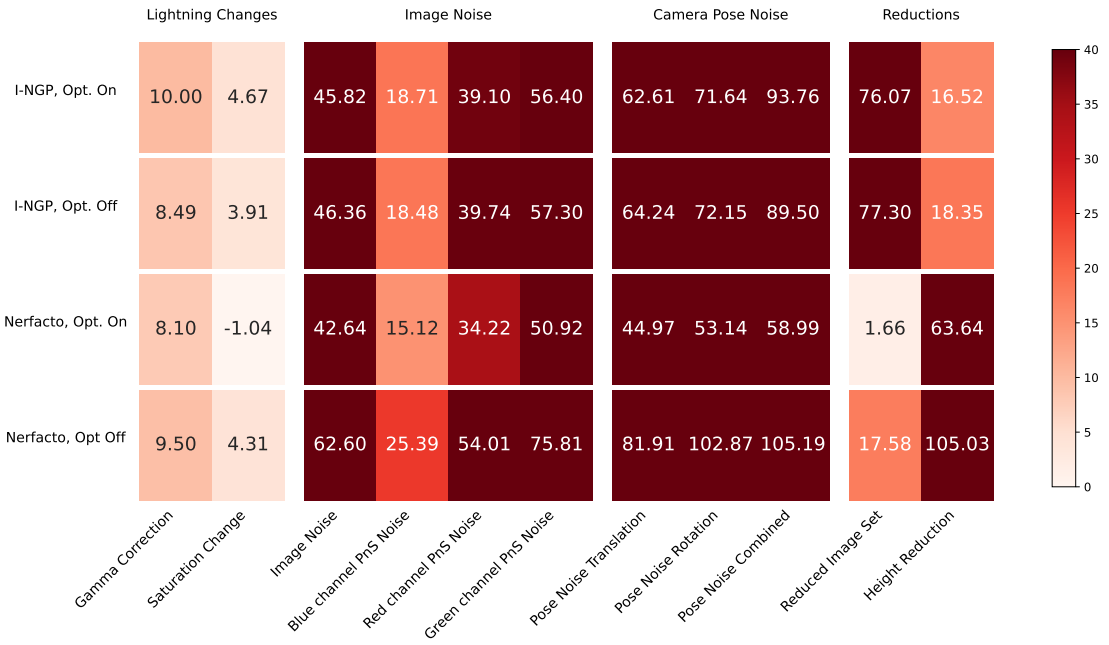

Figure B.3: Relative decrease in LPIPS across all settings on “stump” dataset.

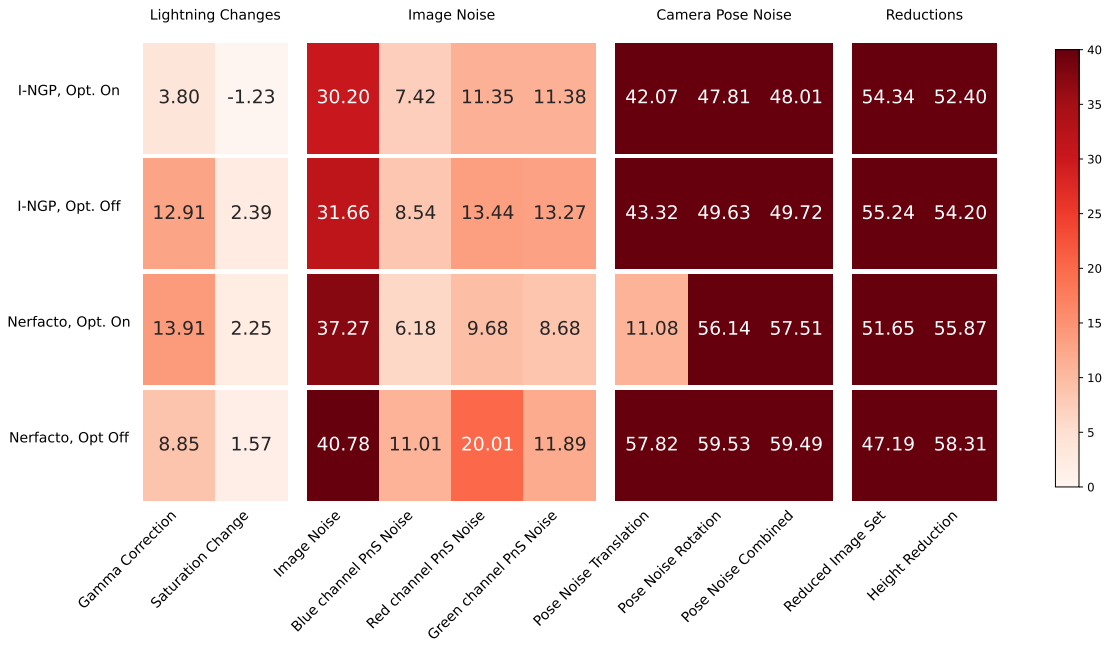

Figure B.4: Relative decrease in PSNR across all settings on “lego” dataset.

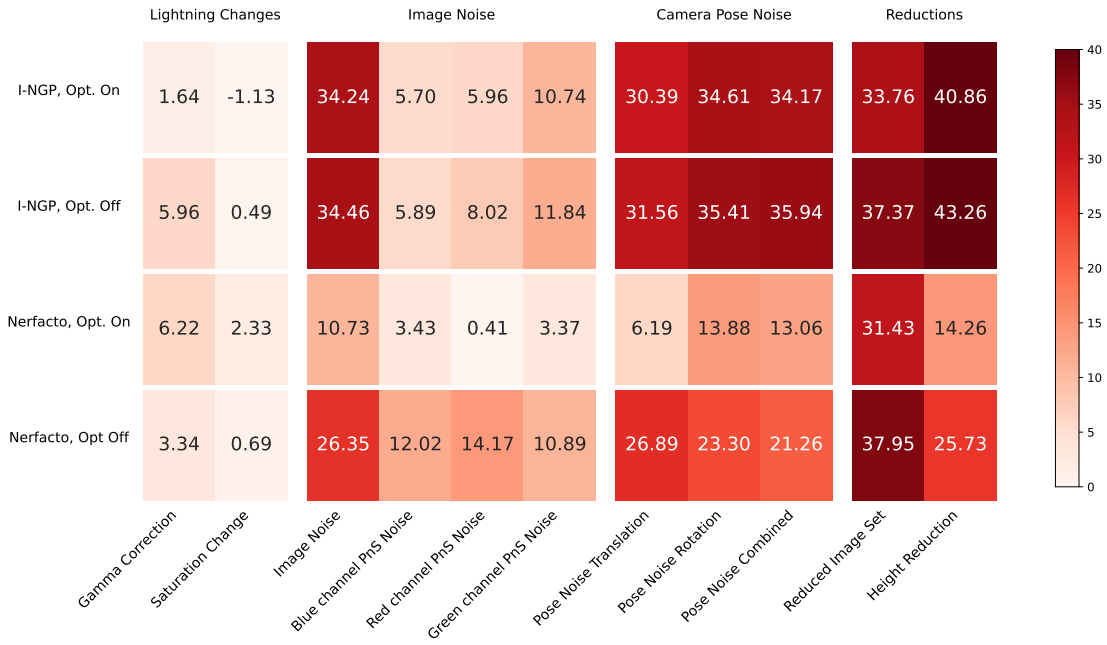

Figure B.5: Relative decrease in SSIM across all settings on “lego” dataset.

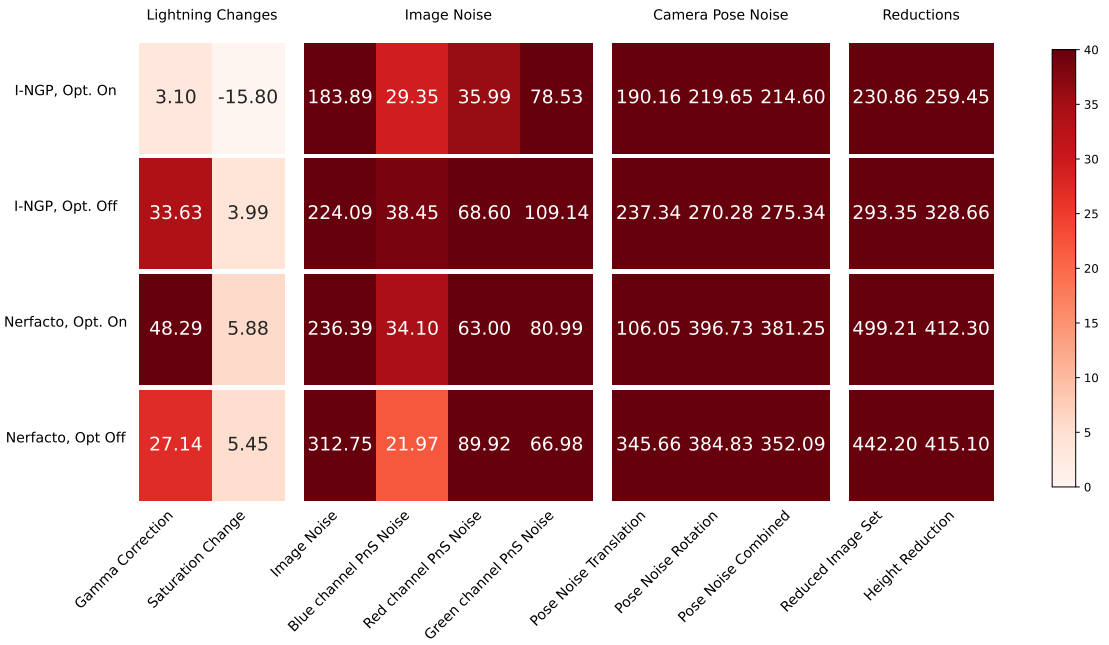

Figure B.6: Relative decrease in LPIPS across all settings on “lego” dataset.

B.1.2. Lego Boxplots

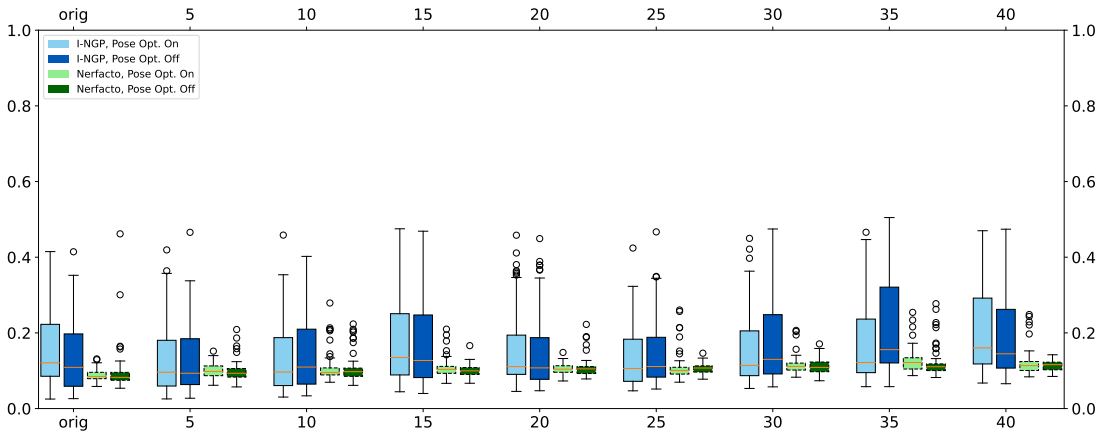

Figure B.7: Boxplot displaying the degradation results measured in LPIPS↓ for the “Channel-specific Image Pepper and Salt Noise” experiment for blue color. Lego dataset is used.

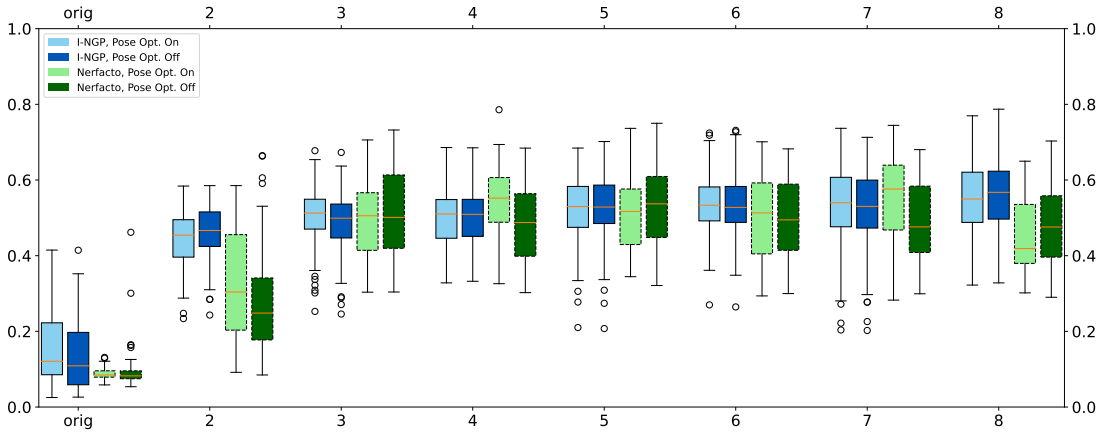

Figure B.8: Boxplot displaying the degradation results measured in LPIPS↓ for the "Reduced Image Set" experiment. Lego dataset is used.

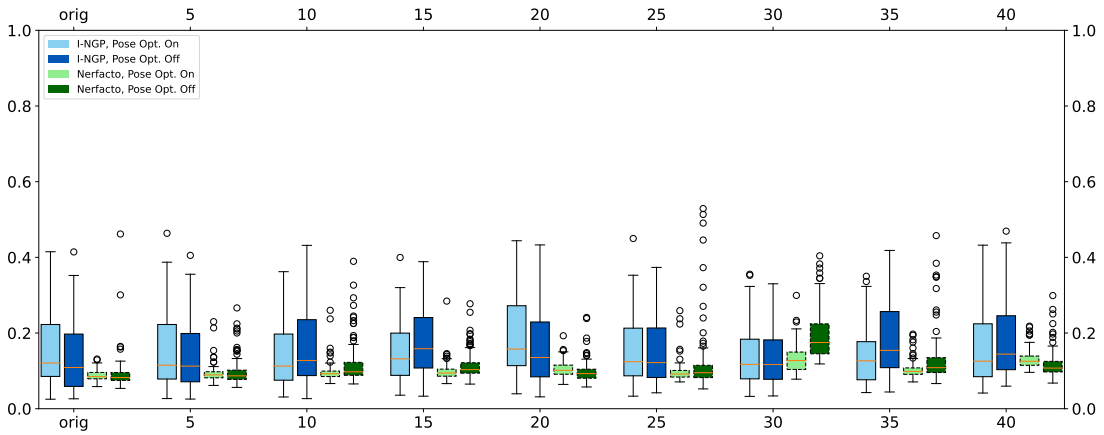

Figure B.9: Boxplot displaying the degradation results measured in LPIPS↓ for the "Gamma Correction" experiment. Lego dataset is used.

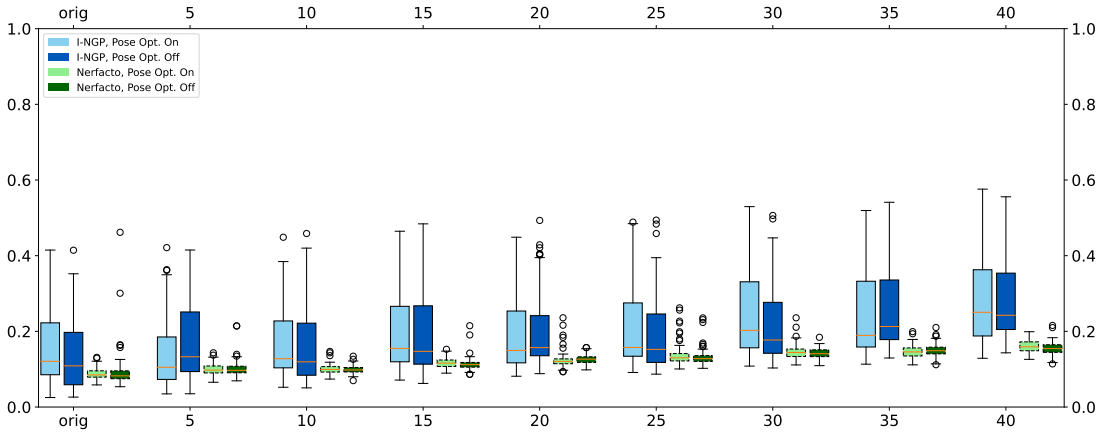

Figure B.10: Boxplot displaying the degradation results measured in LPIPS↓ for the "Channel-specific Image Pepper and Salt Noise" experiment for green color. Lego dataset is used.

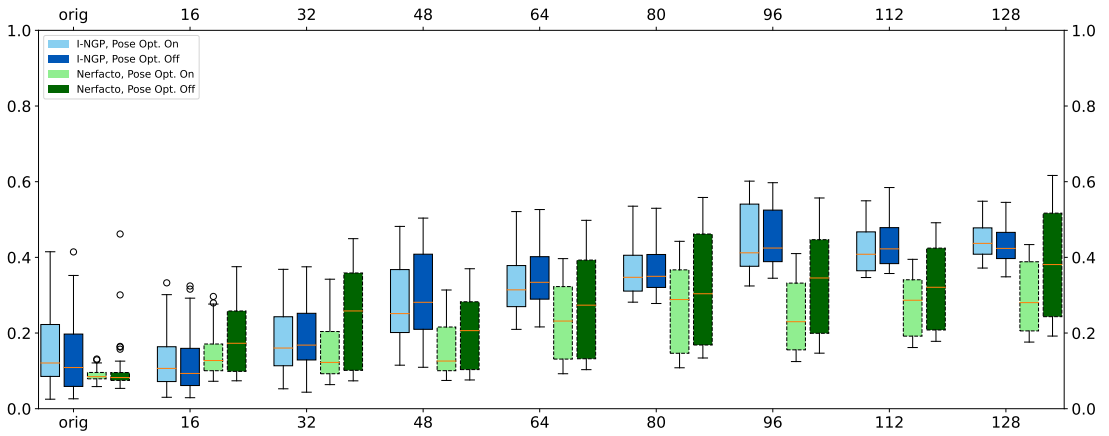

Figure B.11: Boxplot displaying the degradation results measured in LPIPS↓ for the "Image Noise" experiment. Lego dataset is used.

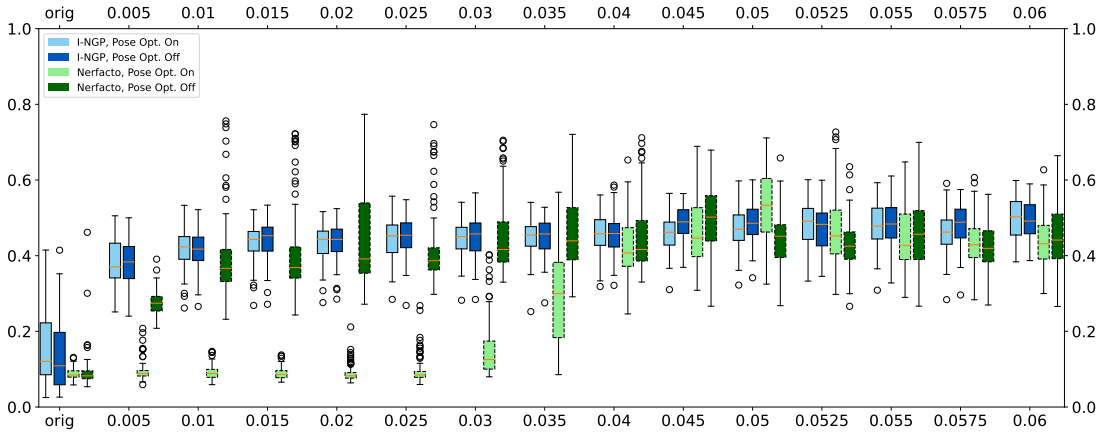

Figure B.12: Boxplot displaying the degradation results measured in LPIPS↓ for the "Orientation Noise" experiment. Lego dataset is used.

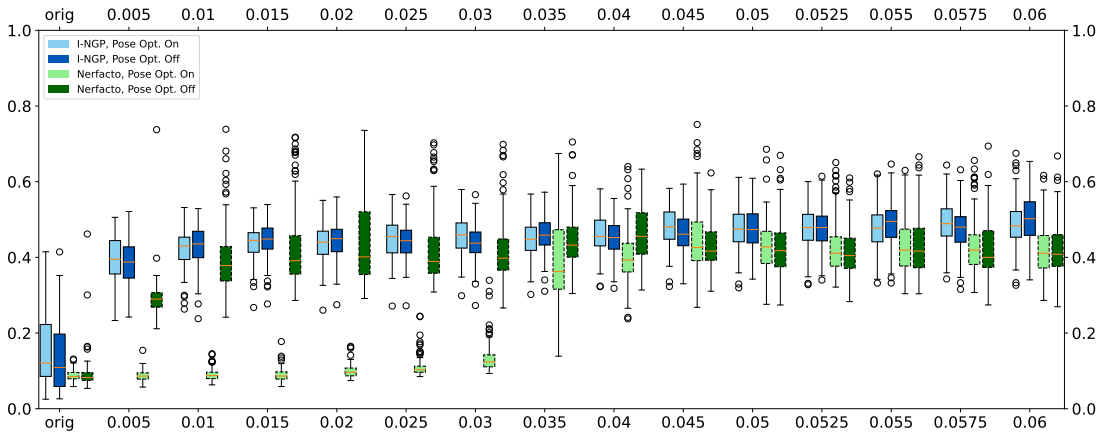

Figure B.13: Boxplot displaying the degradation results measured in LPIPS↓ for the "Combined Pose Noise" experiment. Lego dataset is used.

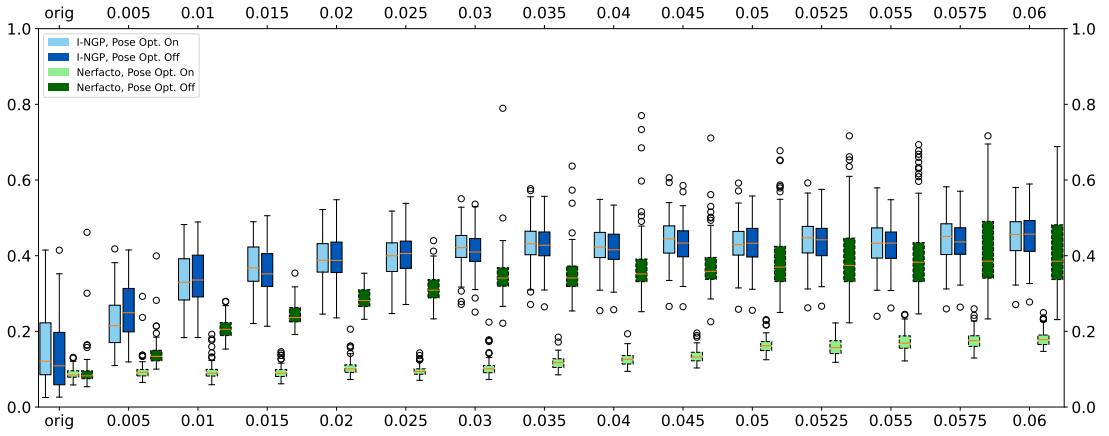

Figure B.14: Boxplot displaying the degradation results measured in LPIPS↓ for the "Positional Noise" experiment. Lego dataset is used.

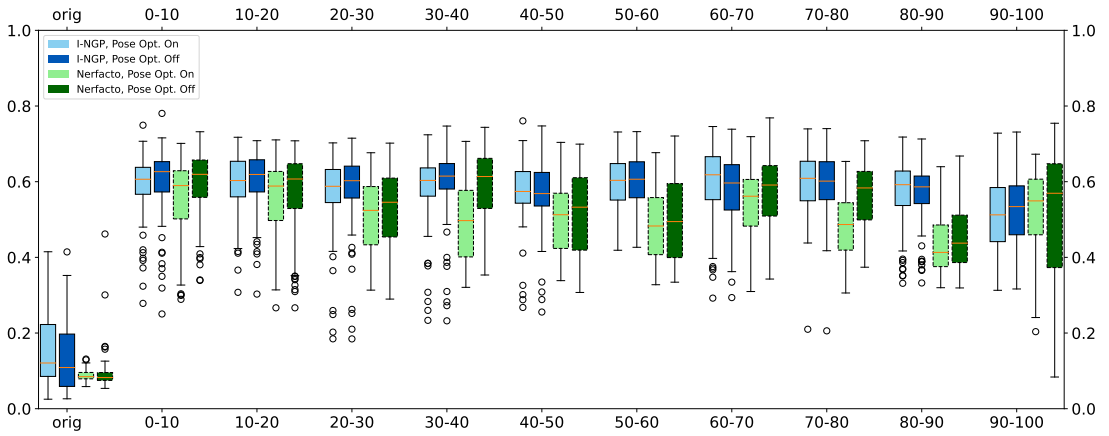

Figure B.15: Boxplot displaying the degradation results measured in LPIPS↓ for the "Range" experiment. Lego dataset is used.

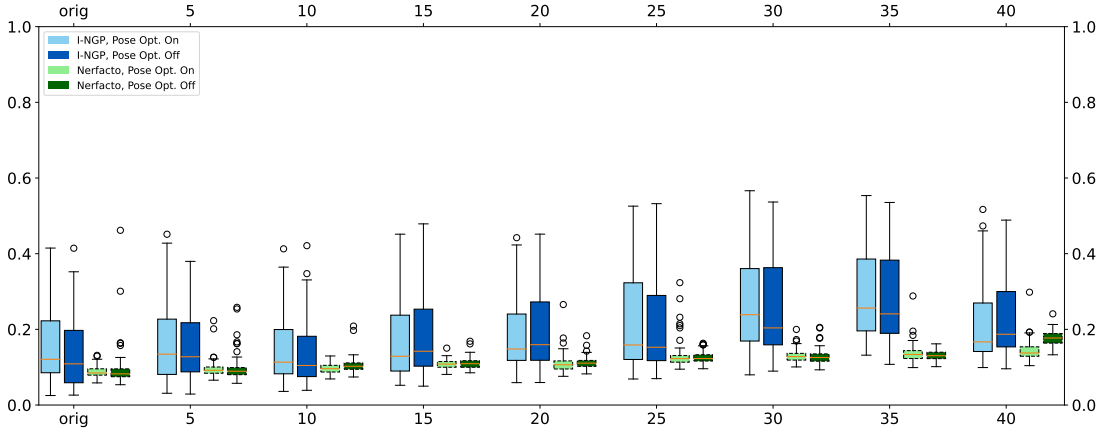

Figure B.16: Boxplot displaying the degradation results measured in LPIPS↓ for the "Channel-specific Image Pepper and Salt Noise" experiment for red color. Lego dataset is used.

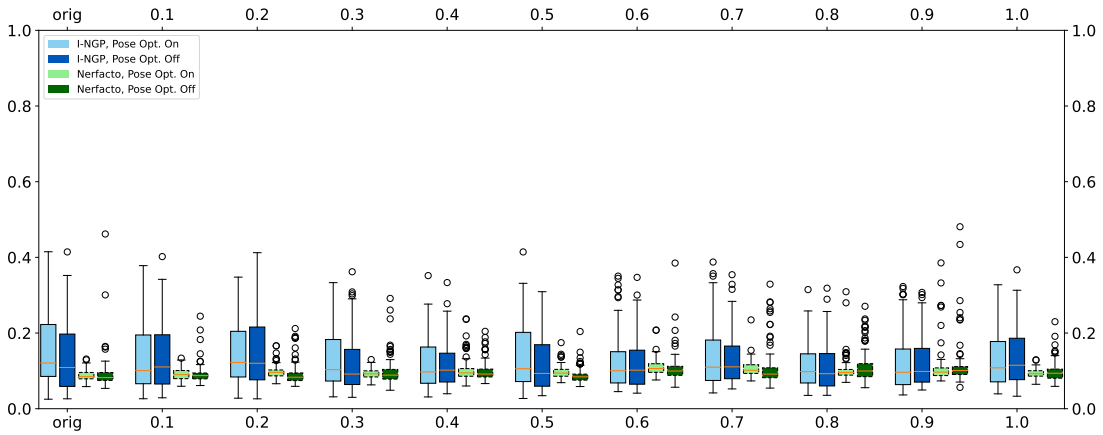

Figure B.17: Boxplot displaying the degradation results measured in LPIPS↓ for the "Saturation Change" experiment. Lego dataset is used.

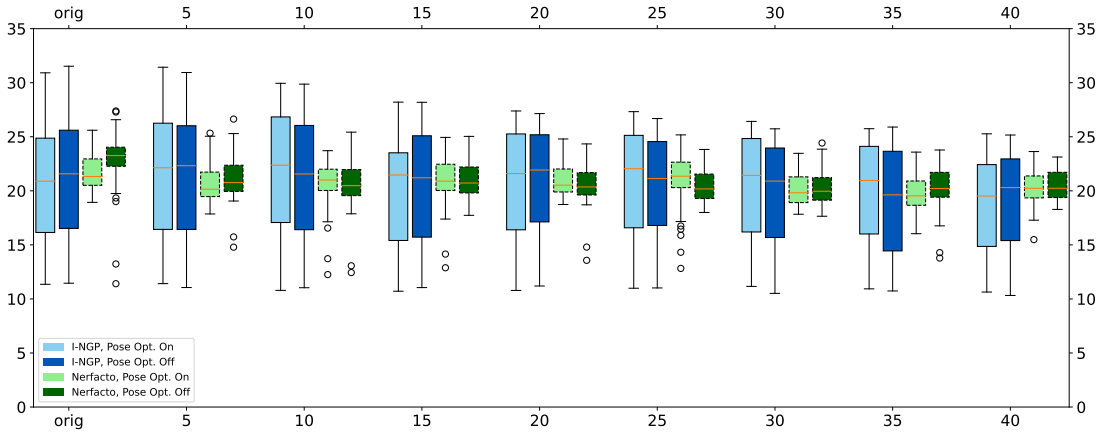

Figure B.18: Boxplot displaying the degradation results measured in PSNR↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for blue color. Lego dataset is used.

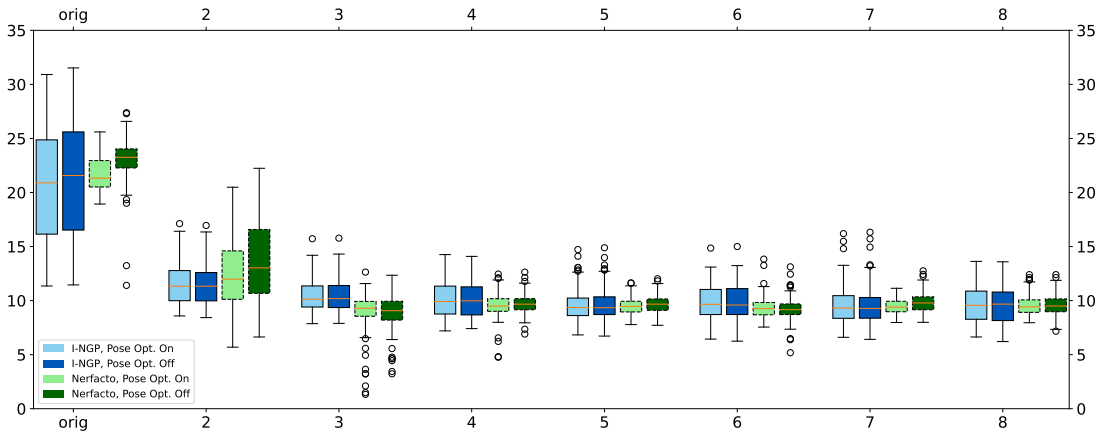

Figure B.19: Boxplot displaying the degradation results measured in PSNR↑ for the "Reduced Image Set" experiment. Lego dataset is used.

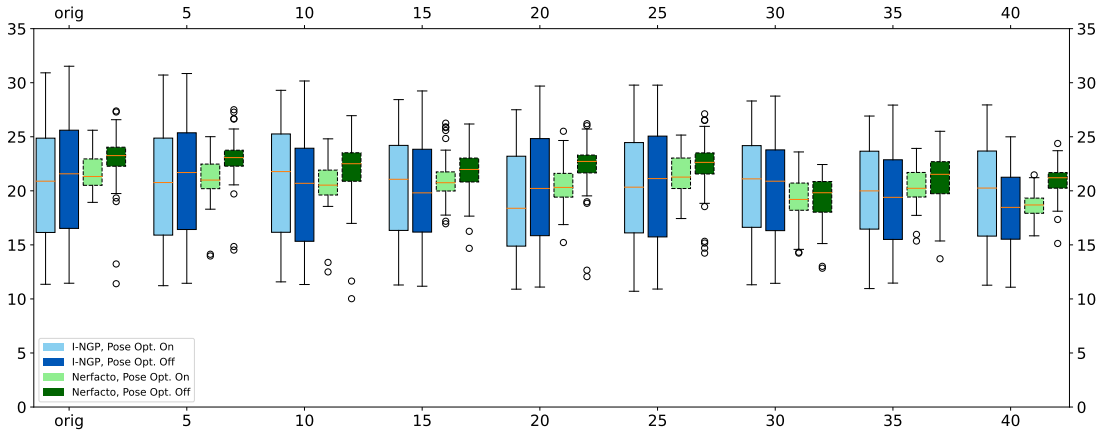

Figure B.20: Boxplot displaying the degradation results measured in PSNR↑ for the "Gamma Correction" experiment. Lego dataset is used.

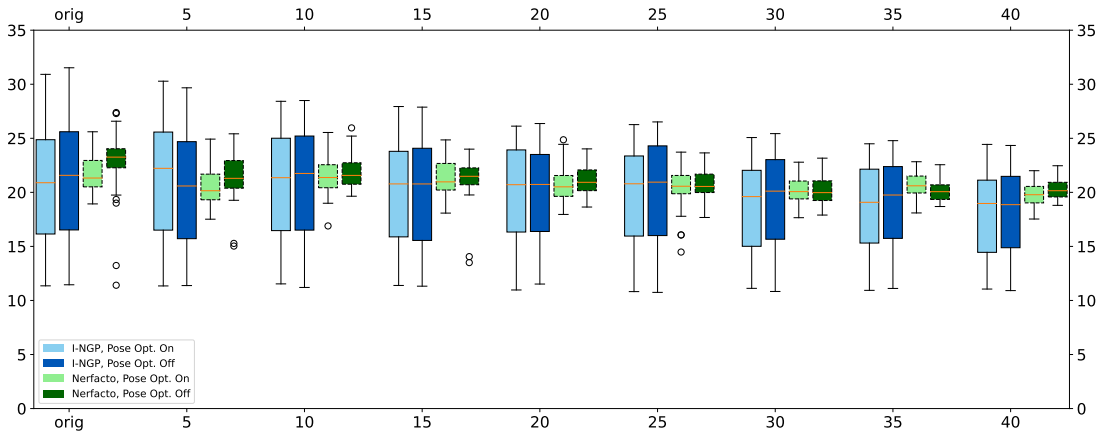

Figure B.21: Boxplot displaying the degradation results measured in PSNR↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for green color. Lego dataset is used.

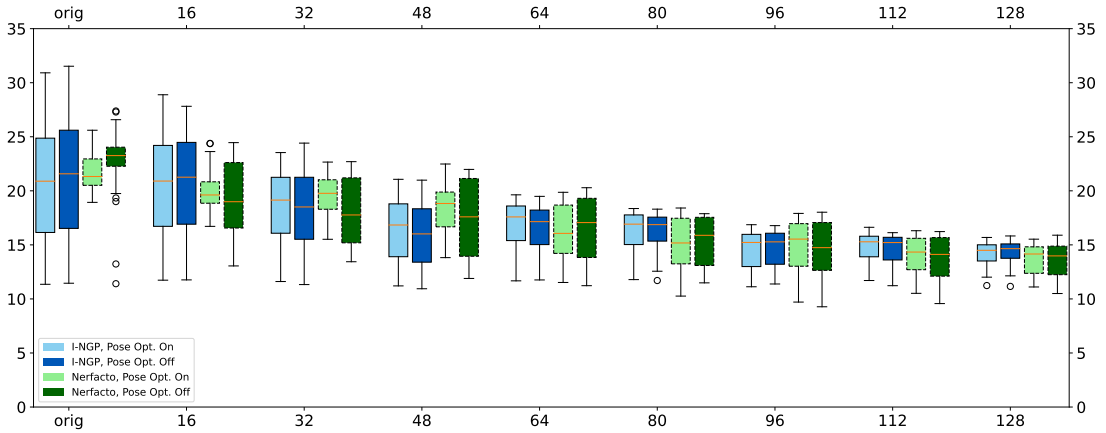

Figure B.22: Boxplot displaying the degradation results measured in PSNR↑ for the "Image Noise" experiment. Lego dataset is used.

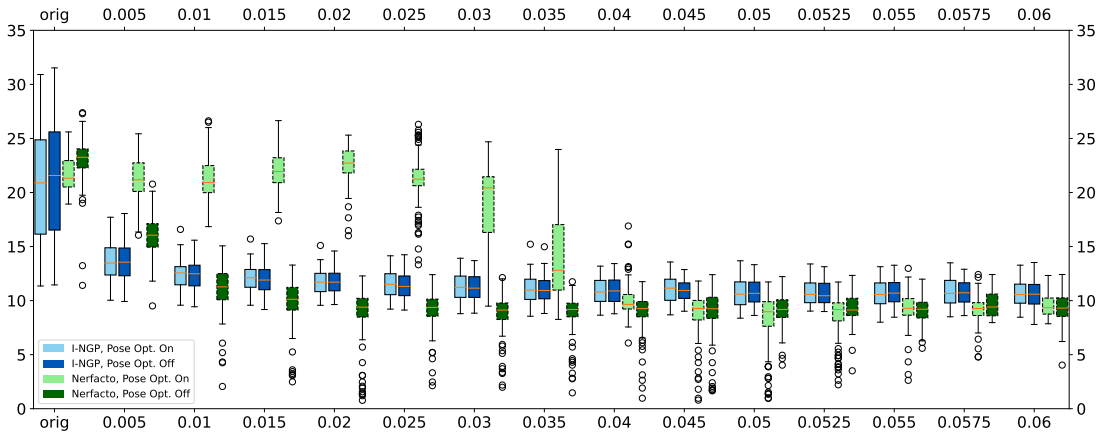

Figure B.23: Boxplot displaying the degradation results measured in PSNR↑ for the "Orientation Noise" experiment. Lego dataset is used.

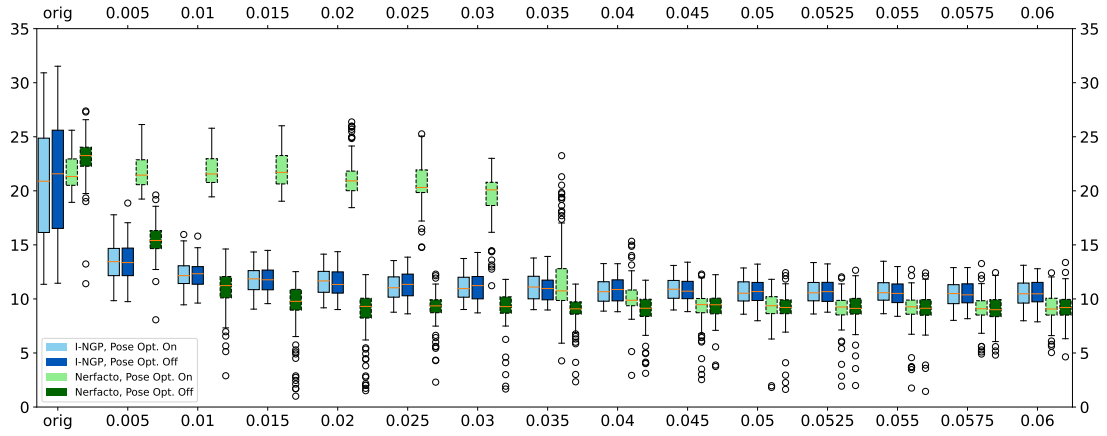

Figure B.24: Boxplot displaying the degradation results measured in PSNR↑ for the "Combined Pose Noise" experiment. Lego dataset is used.

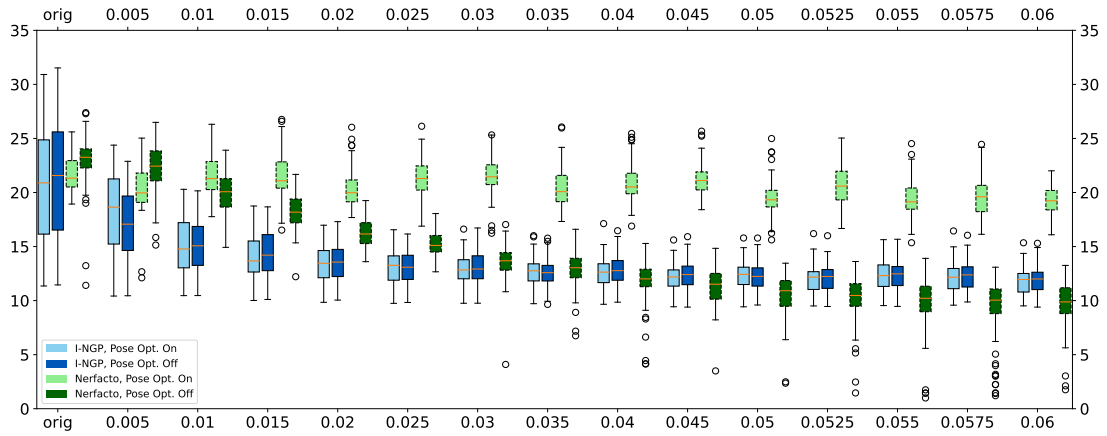

Figure B.25: Boxplot displaying the degradation results measured in PSNR↑ for the "Positional Noise" experiment. Lego dataset is used.

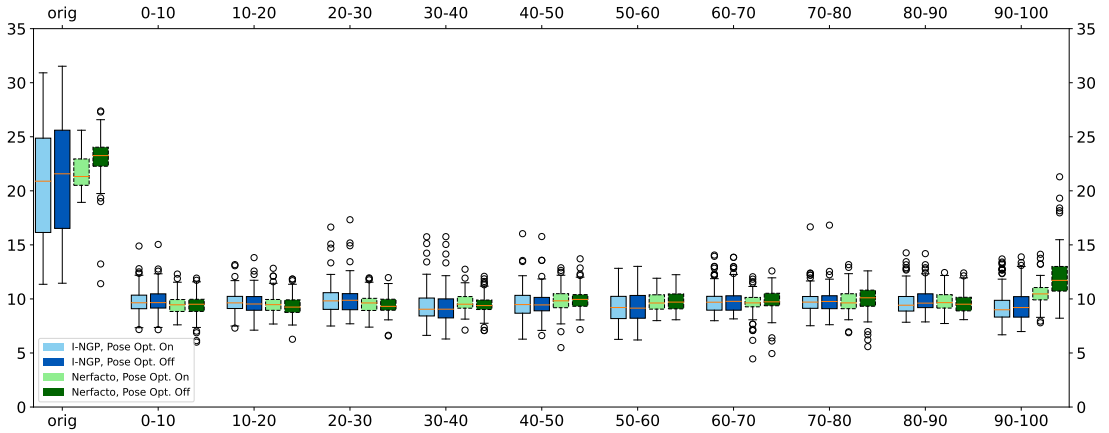

Figure B.26: Boxplot displaying the degradation results measured in PSNR↑ for the "Range" experiment. Lego dataset is used.

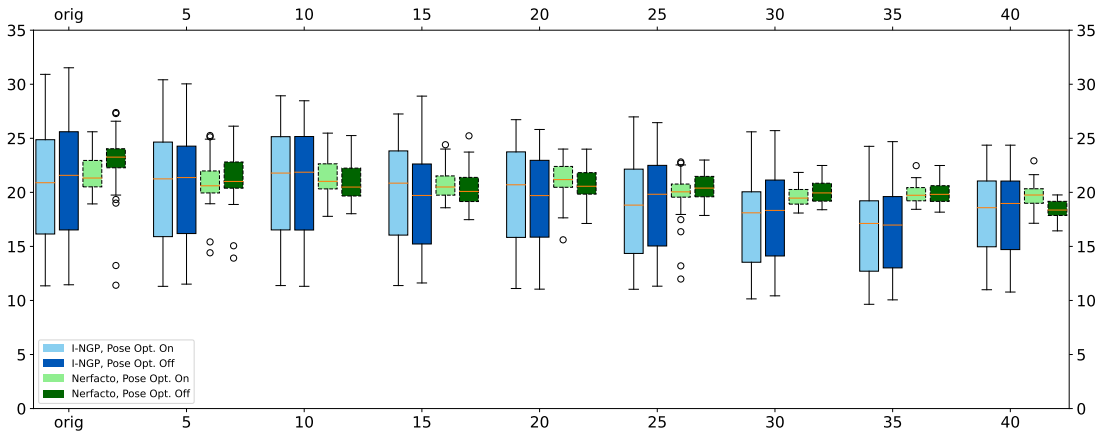

Figure B.27: Boxplot displaying the degradation results measured in PSNR↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for red color. Lego dataset is used.

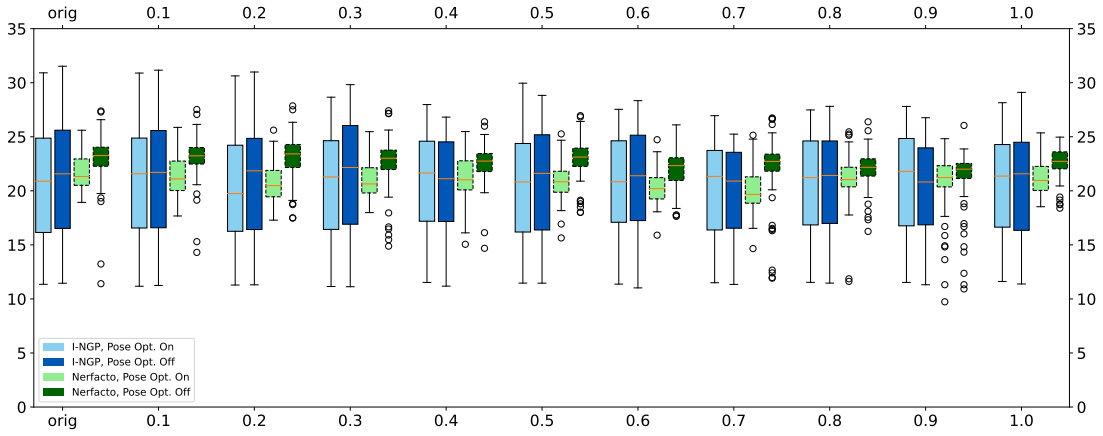

Figure B.28: Boxplot displaying the degradation results measured in PSNR↑ for the "Saturation Change" experiment. Lego dataset is used.

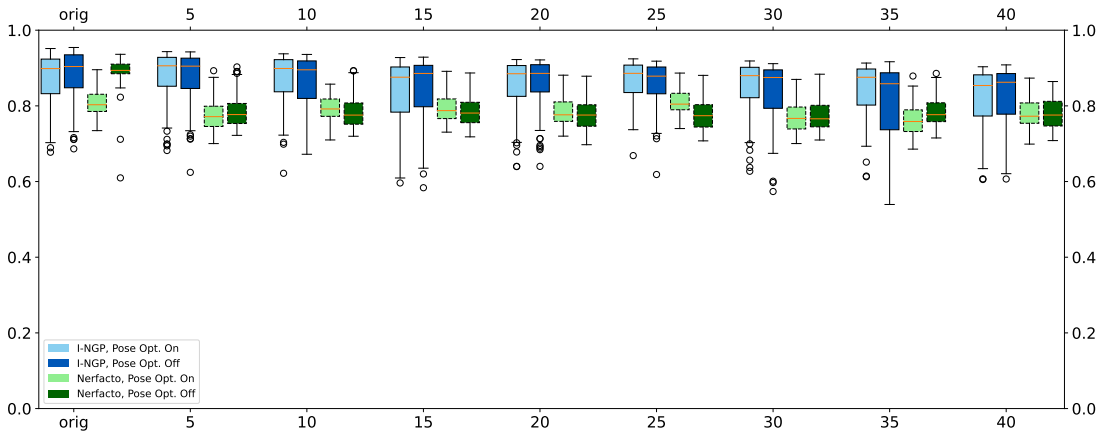

Figure B.29: Boxplot displaying the degradation results measured in SSIM↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for blue color. Lego dataset is used.

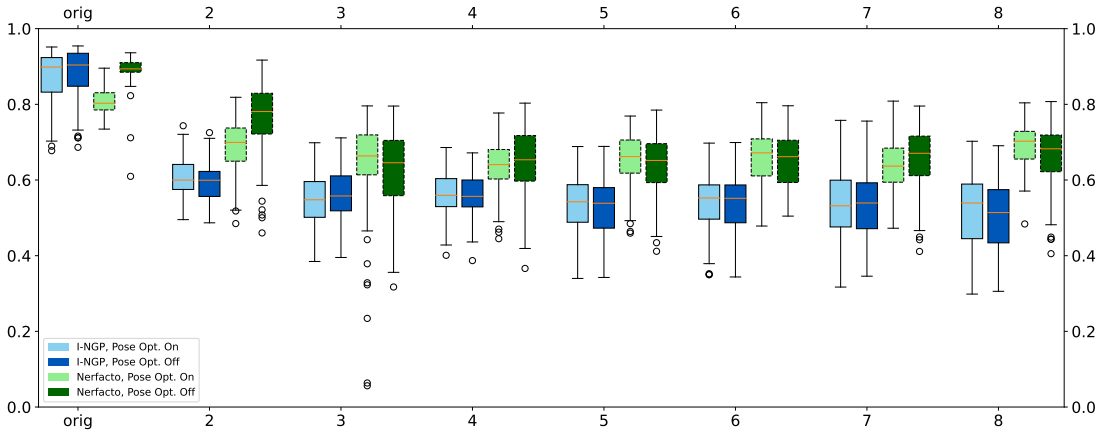

Figure B.30: Boxplot displaying the degradation results measured in SSIM↑ for the "Reduced Image Set" experiment. Lego dataset is used.

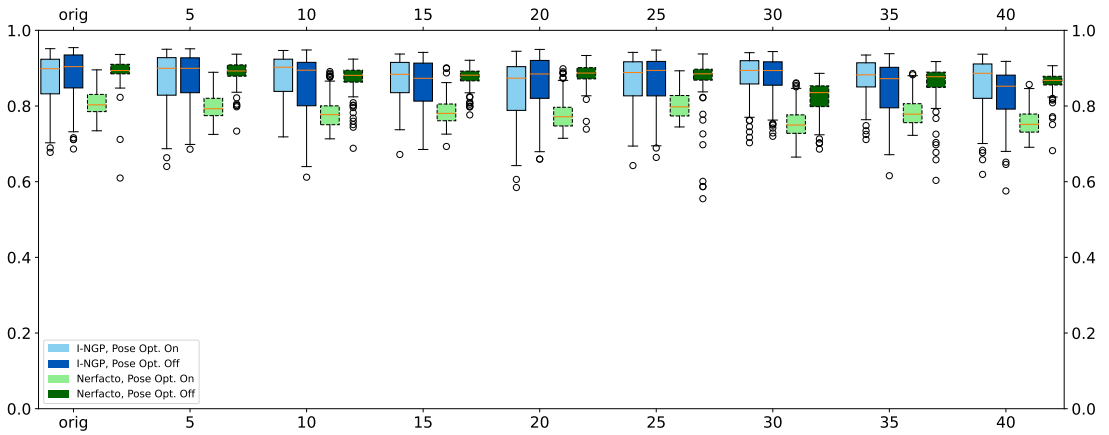

Figure B.31: Boxplot displaying the degradation results measured in SSIM↑ for the "Gamma Correction" experiment. Lego dataset is used.

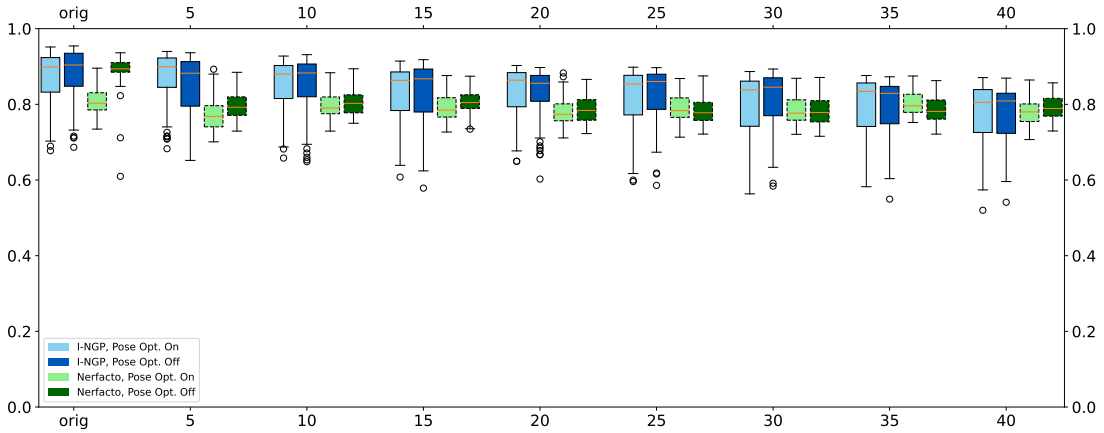

Figure B.32: Boxplot displaying the degradation results measured in SSIM↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for green color. Lego dataset is used.

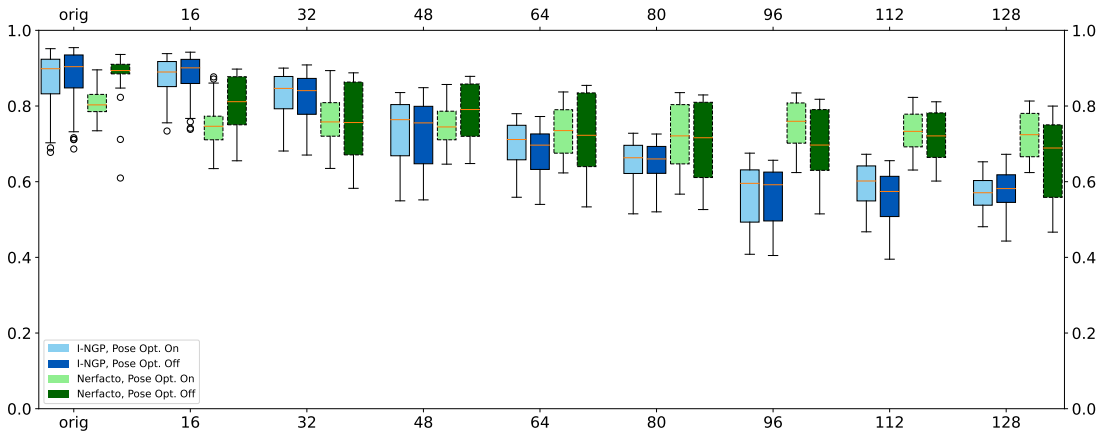

Figure B.33: Boxplot displaying the degradation results measured in SSIM↑ for the "Image Noise" experiment. Lego dataset is used.

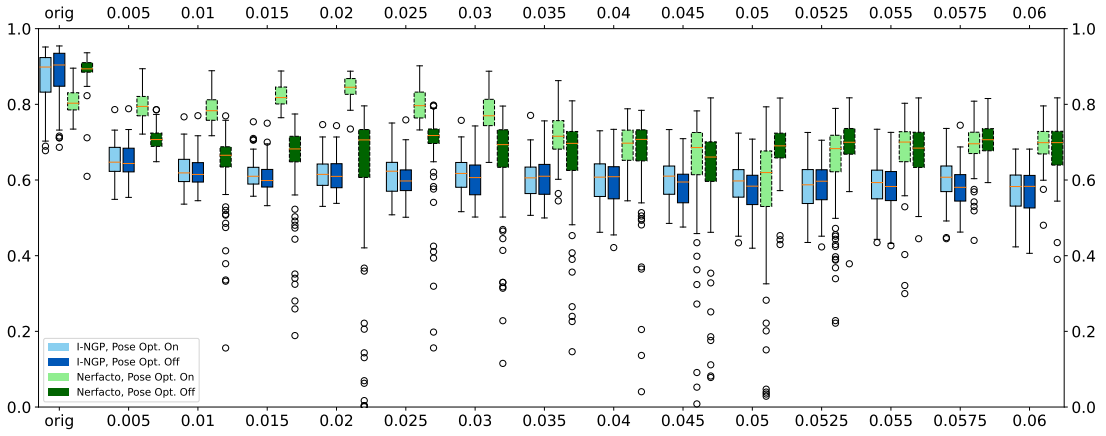

Figure B.34: Boxplot displaying the degradation results measured in SSIM↑ for the "Orientation Noise" experiment. Lego dataset is used.

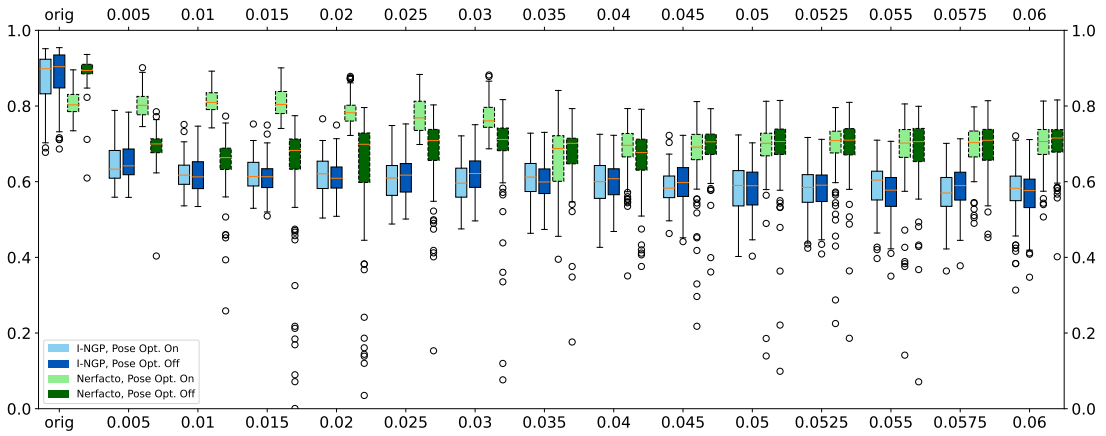

Figure B.35: Boxplot displaying the degradation results measured in SSIM↑ for the "Combined Pose Noise" experiment. Lego dataset is used.

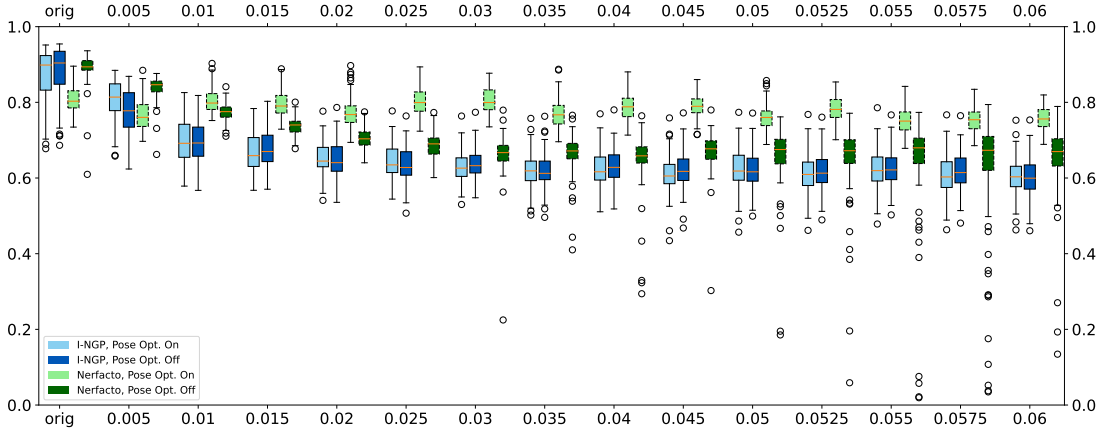

Figure B.36: Boxplot displaying the degradation results measured in SSIM↑ for the "Positional Noise" experiment. Lego dataset is used.

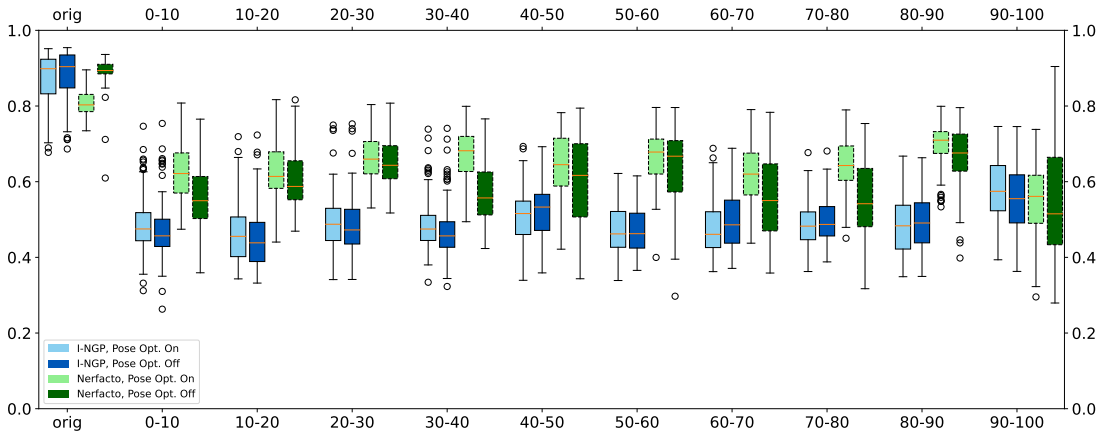

Figure B.37: Boxplot displaying the degradation results measured in SSIM↑ for the "Range" experiment. Lego dataset is used.

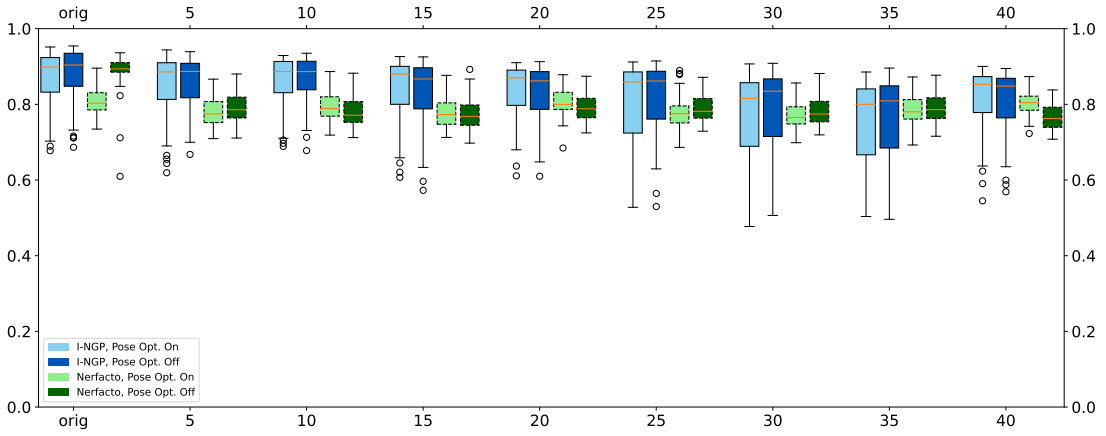

Figure B.38: Boxplot displaying the degradation results measured in SSIM↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for red color. Lego dataset is used.

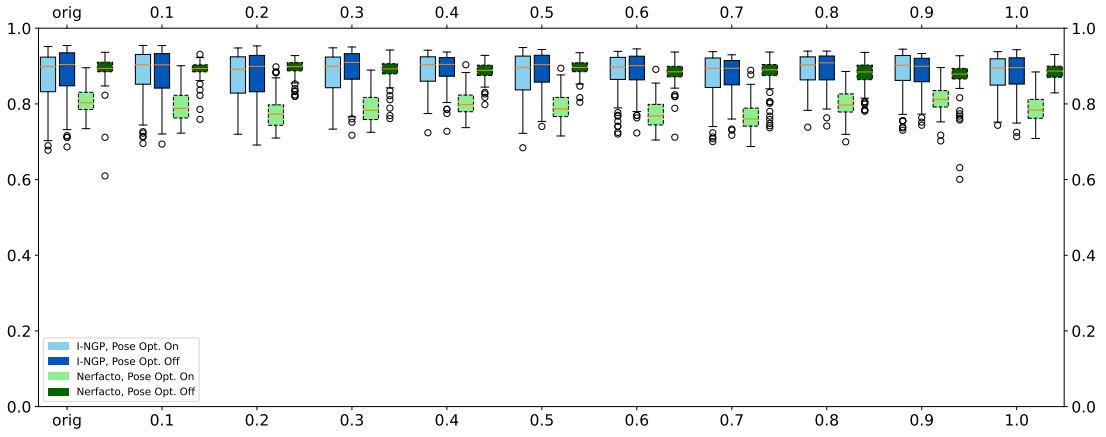

Figure B.39: Boxplot displaying the degradation results measured in SSIM↑ for the "Saturation Change" experiment. Lego dataset is used.

B.1.3. Stump Boxplots

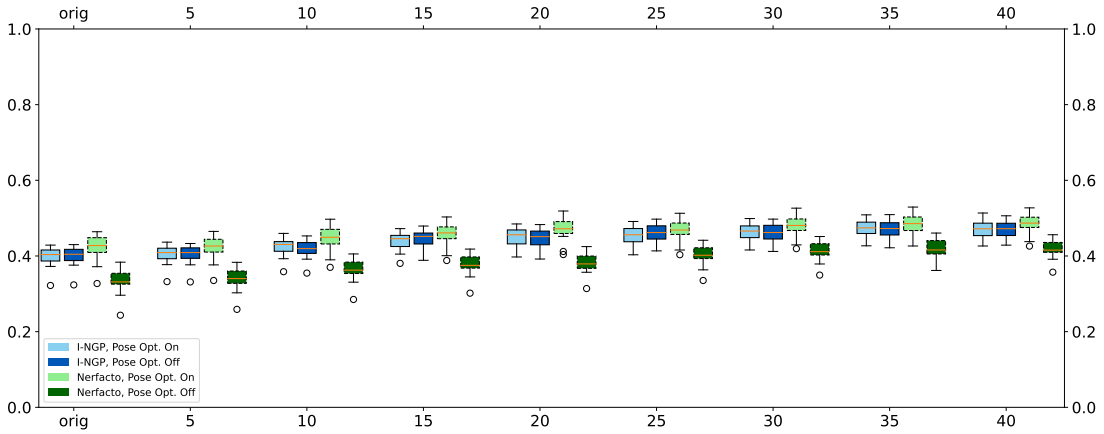

Figure B.40: Boxplot displaying the degradation results measured in LPIPS↓ for the "Channel-specific Image Pepper and Salt Noise" experiment for blue color. Stump dataset is used.

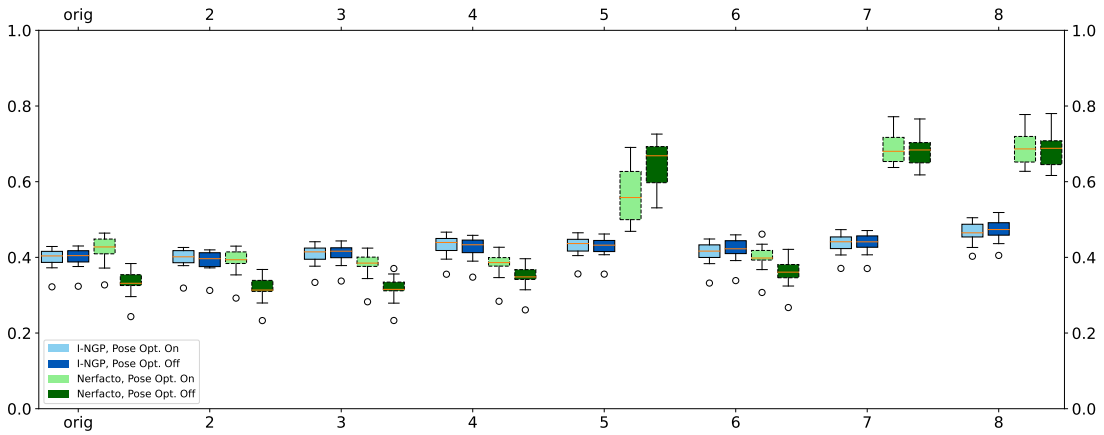

Figure B.41: Boxplot displaying the degradation results measured in LPIPS↓ for the "Reduced Image Set" experiment. Stump dataset is used.

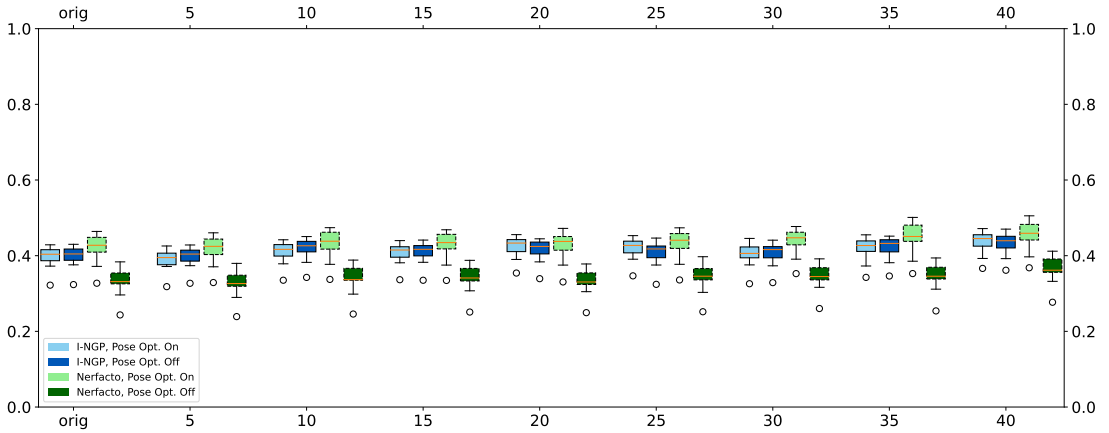

Figure B.42: Boxplot displaying the degradation results measured in LPIPS↓ for the "Gamma Correction" experiment. Stump dataset is used.

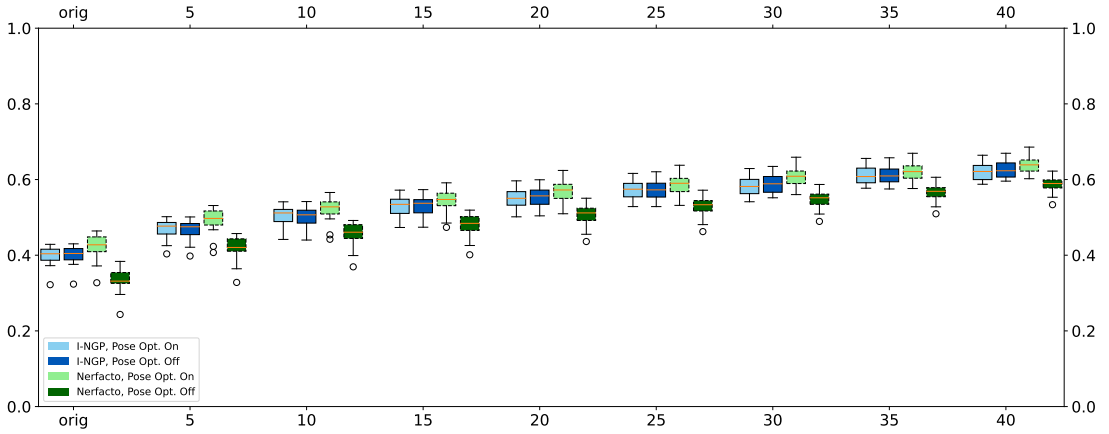

Figure B.43: Boxplot displaying the degradation results measured in LPIPS↓ for the "Channel-specific Image Pepper and Salt Noise" experiment for green color. Stump dataset is used.

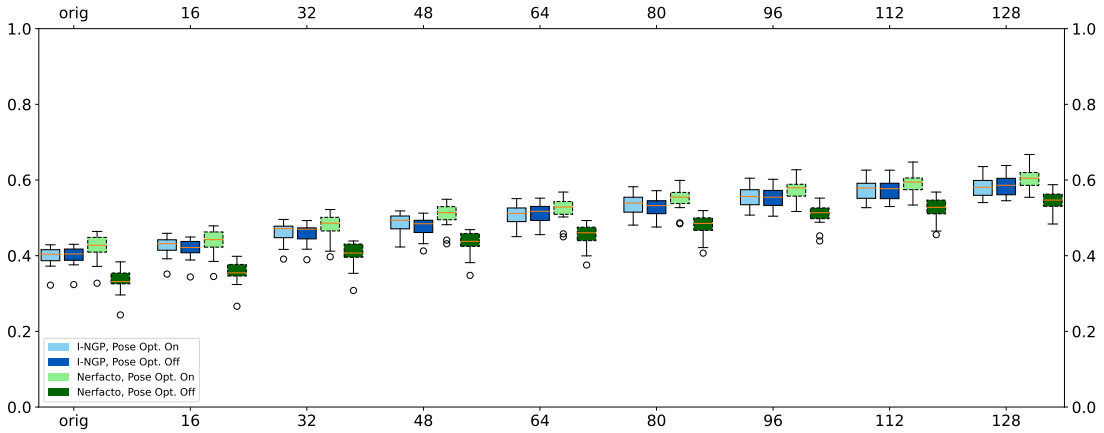

Figure B.44: Boxplot displaying the degradation results measured in LPIPS↓ for the "Image Noise" experiment. Stump dataset is used.

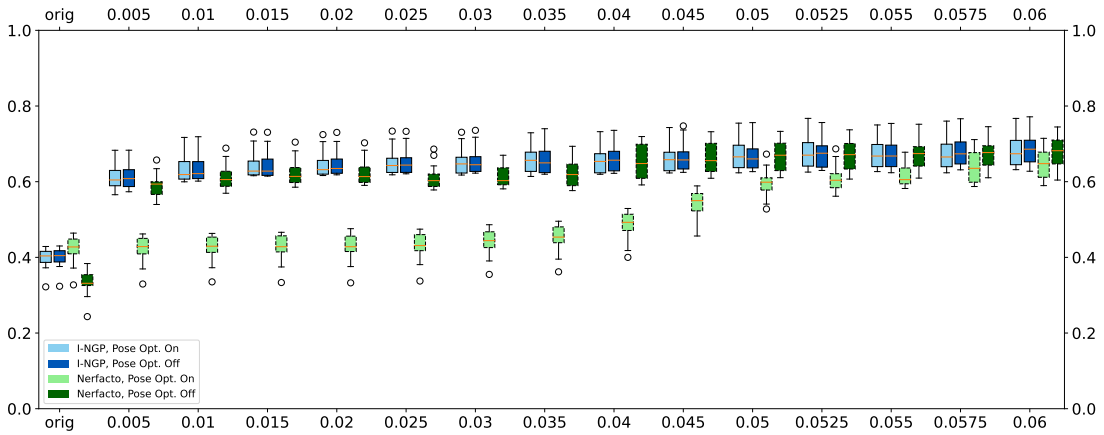

Figure B.45: Boxplot displaying the degradation results measured in LPIPS↓ for the "Orientation Noise" experiment. Stump dataset is used.

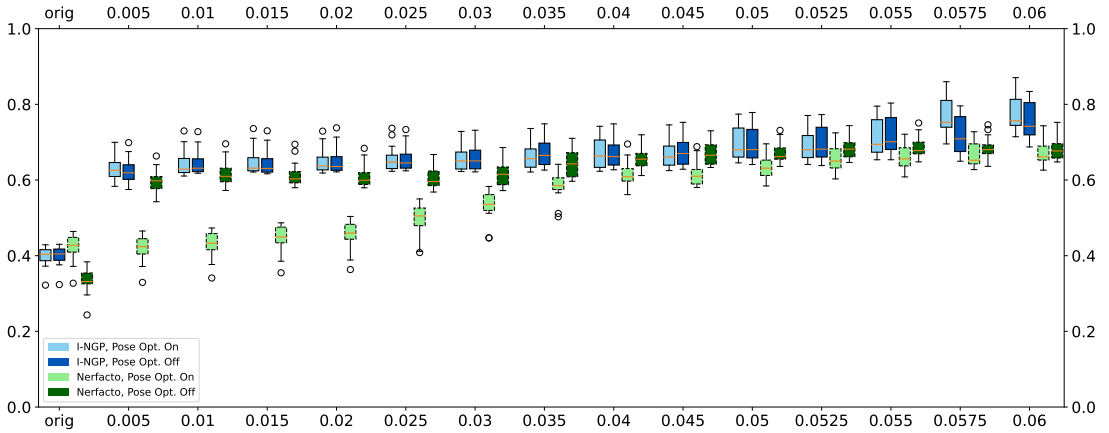

Figure B.46: Boxplot displaying the degradation results measured in LPIPS↓ for the "Combined Pose Noise" experiment. Stump dataset is used.

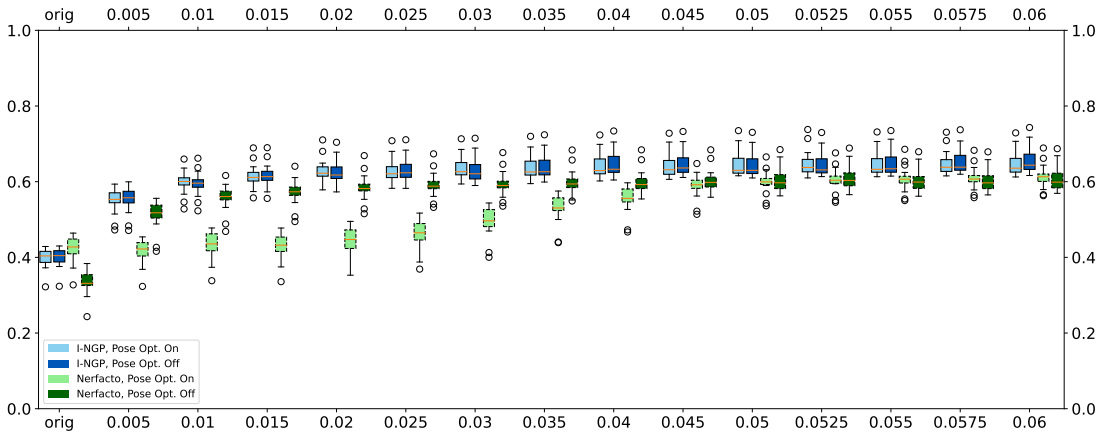

Figure B.47: Boxplot displaying the degradation results measured in LPIPS↓ for the "Positional Noise" experiment. Stump dataset is used.

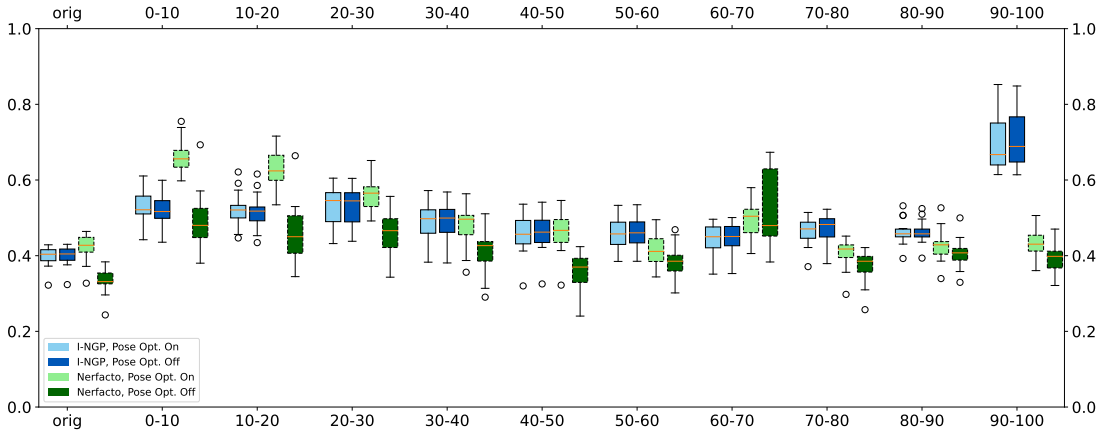

Figure B.48: Boxplot displaying the degradation results measured in LPIPS↓ for the "Range" experiment. Stump dataset is used.

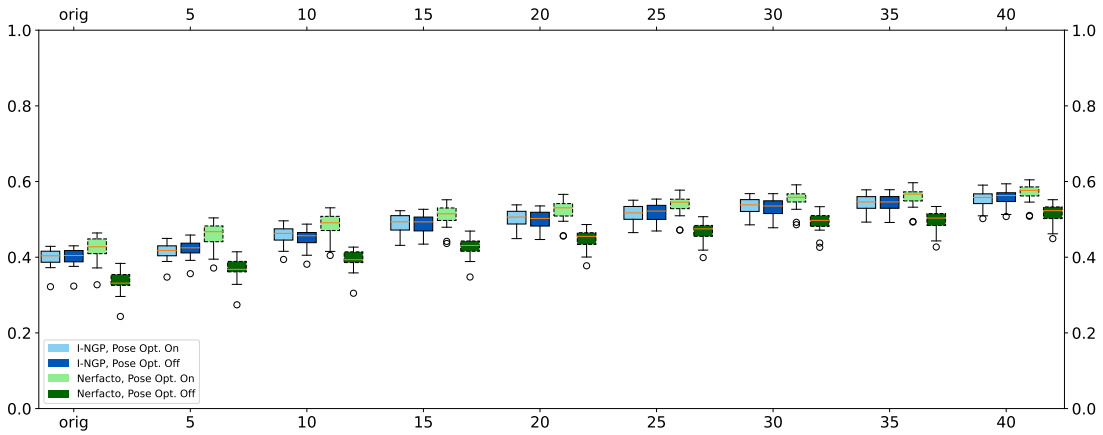

Figure B.49: Boxplot displaying the degradation results measured in LPIPS↓ for the "Channel-specific Image Pepper and Salt Noise" experiment for red color. Stump dataset is used.

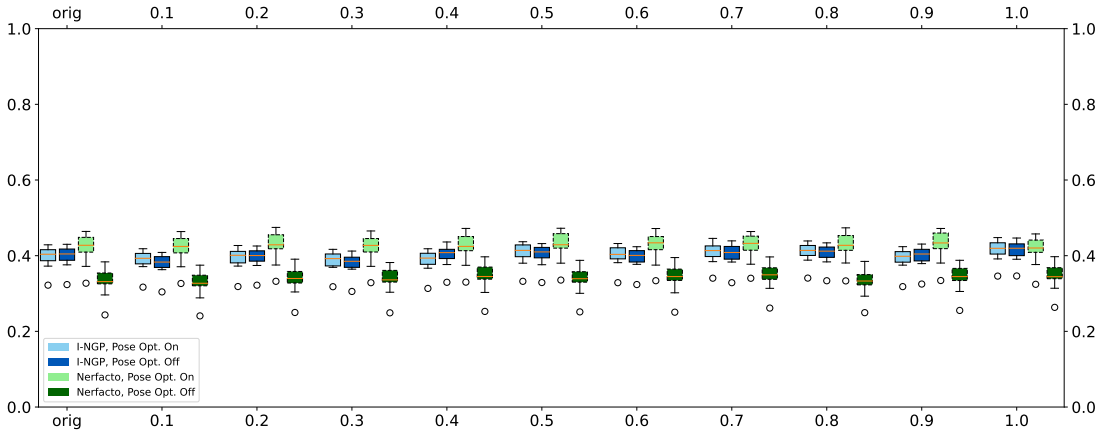

Figure B.50: Boxplot displaying the degradation results measured in LPIPS↓ for the "Saturation Change" experiment. Stump dataset is used.

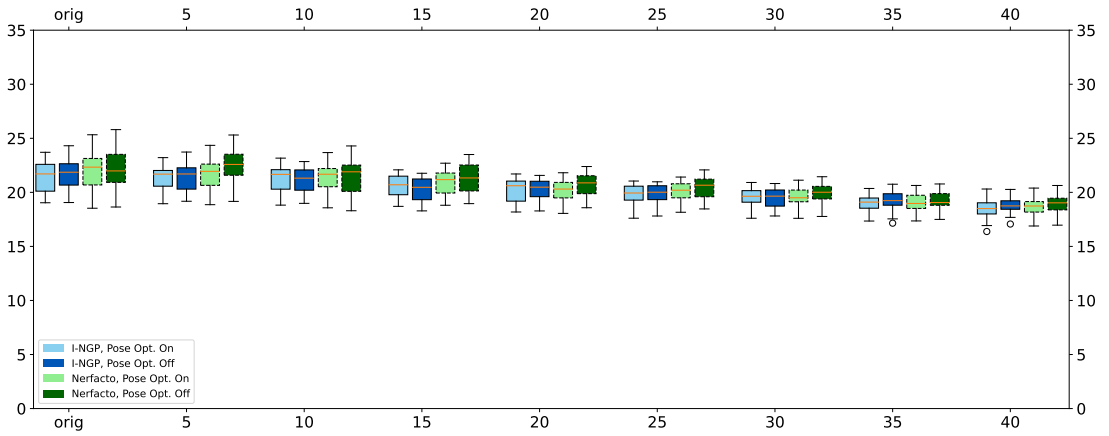

Figure B.51: Boxplot displaying the degradation results measured in PSNR↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for blue color. Stump dataset is used.

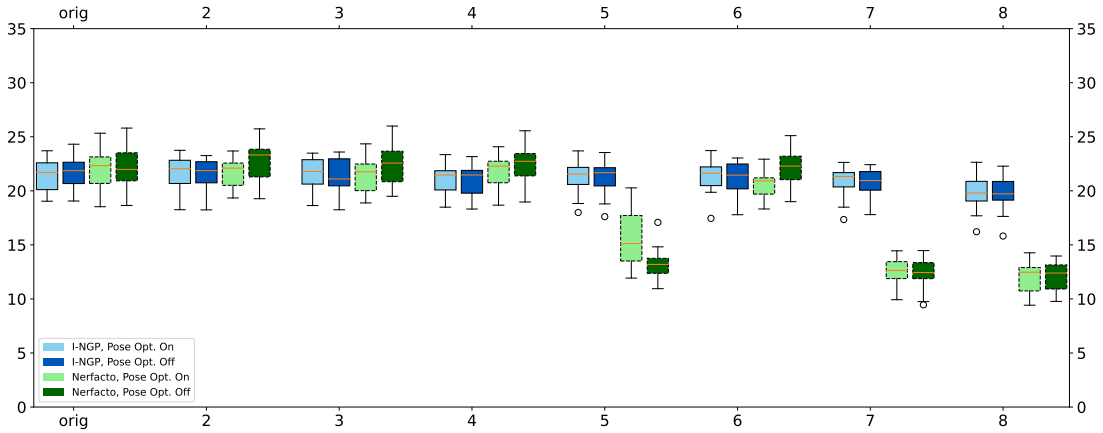

Figure B.52: Boxplot displaying the degradation results measured in PSNR↑ for the "Reduced Image Set" experiment. Stump dataset is used.

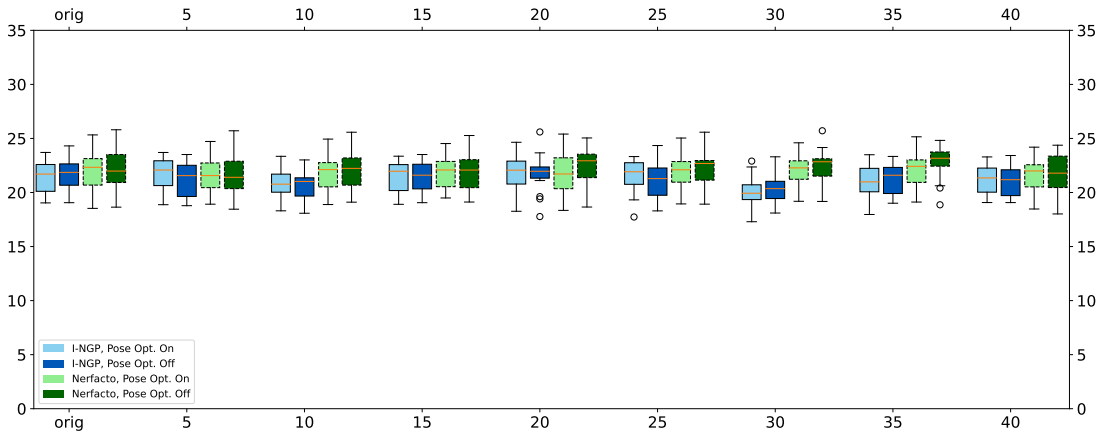

Figure B.53: Boxplot displaying the degradation results measured in PSNR↑ for the "Gamma Correction" experiment. Stump dataset is used.

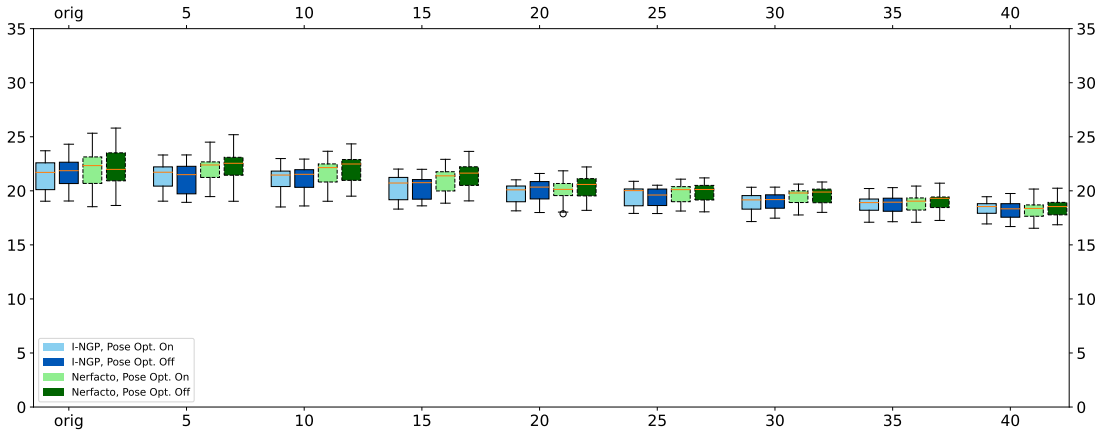

Figure B.54: Boxplot displaying the degradation results measured in PSNR↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for green color. Stump dataset is used.

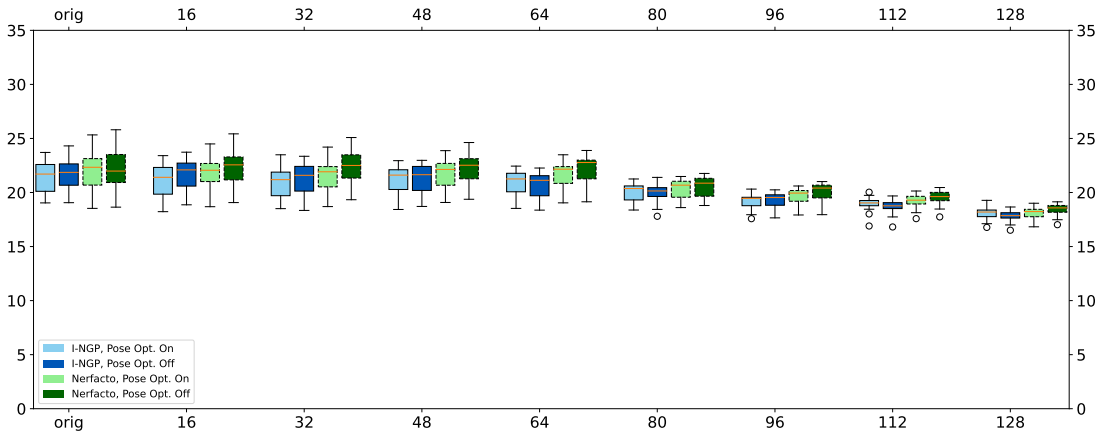

Figure B.55: Boxplot displaying the degradation results measured in PSNR↑ for the "Image Noise" experiment. Stump dataset is used.

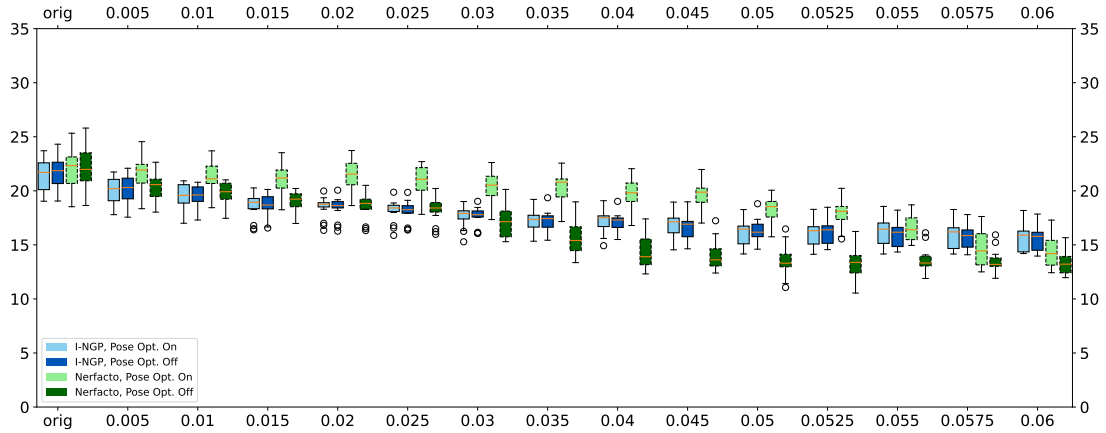

Figure B.56: Boxplot displaying the degradation results measured in PSNR↑ for the "Orientation Noise" experiment. Stump dataset is used.

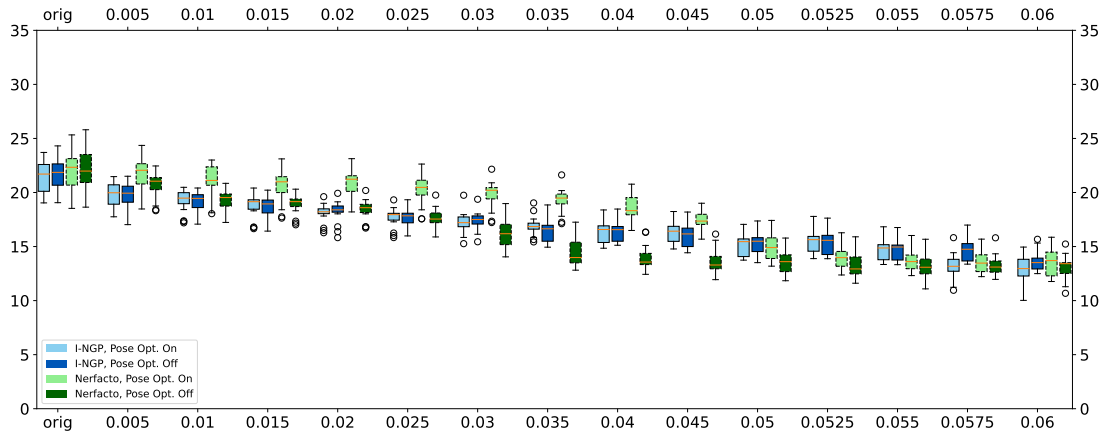

Figure B.57: Boxplot displaying the degradation results measured in PSNR↑ for the "Combined Pose Noise" experiment. Stump dataset is used.

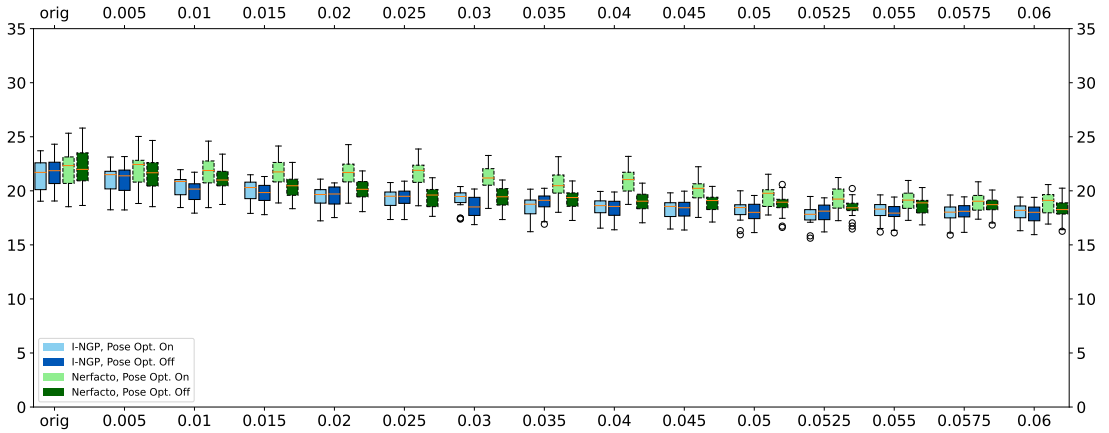

Figure B.58: Boxplot displaying the degradation results measured in PSNR↑ for the "Positional Noise" experiment. Stump dataset is used.

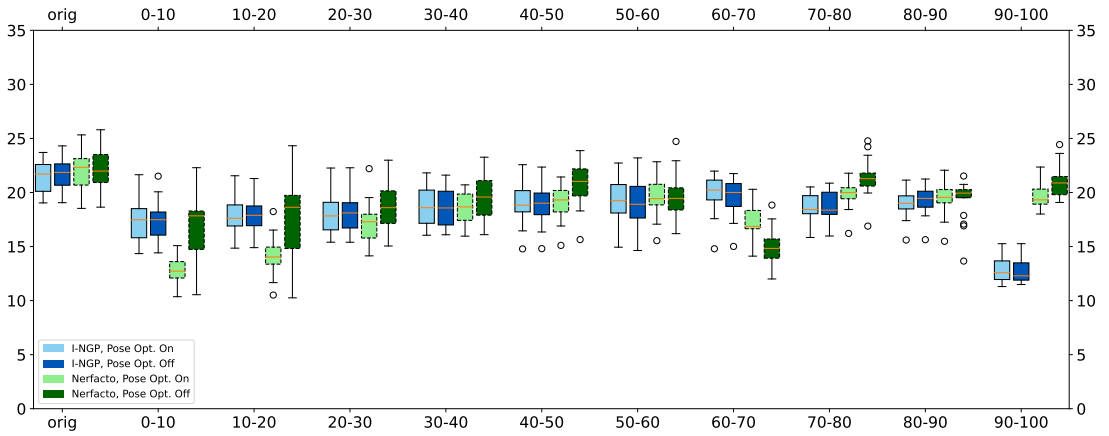

Figure B.59: Boxplot displaying the degradation results measured in PSNR↑ for the "Range" experiment. Stump dataset is used.

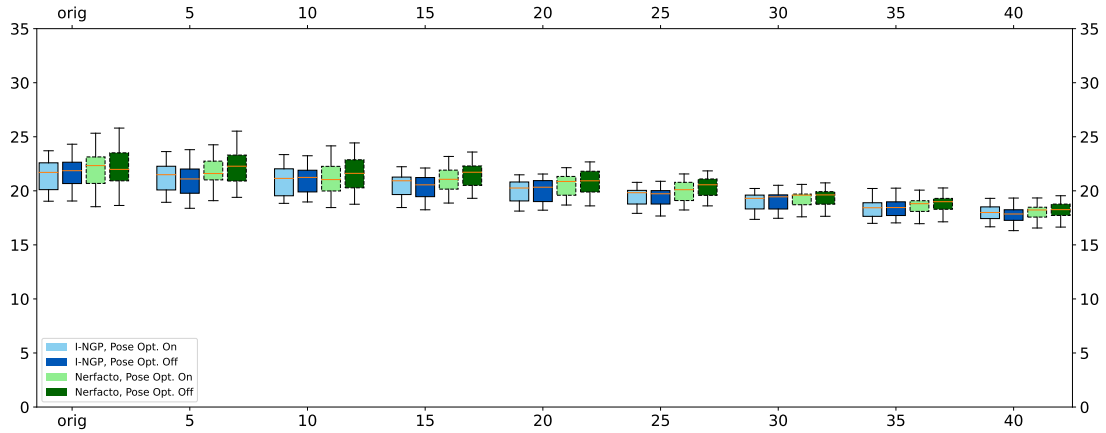

Figure B.60: Boxplot displaying the degradation results measured in PSNR↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for red color. Stump dataset is used.

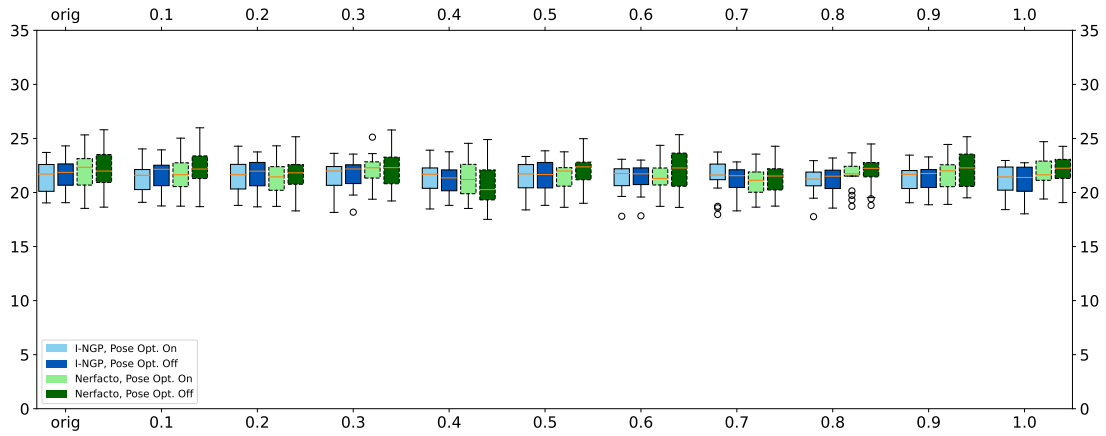

Figure B.61: Boxplot displaying the degradation results measured in PSNR↑ for the "Saturation Change" experiment. Stump dataset is used.

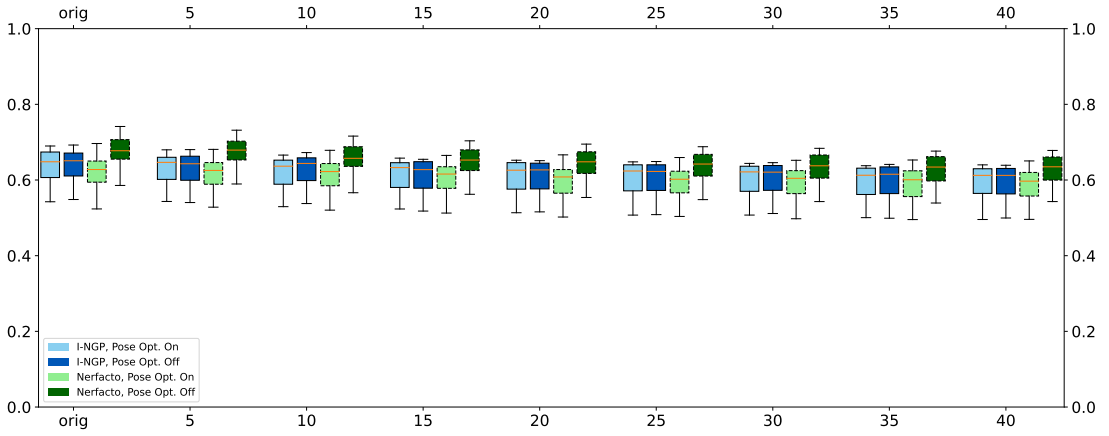

Figure B.62: Boxplot displaying the degradation results measured in SSIM↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for blue color. Stump dataset is used.

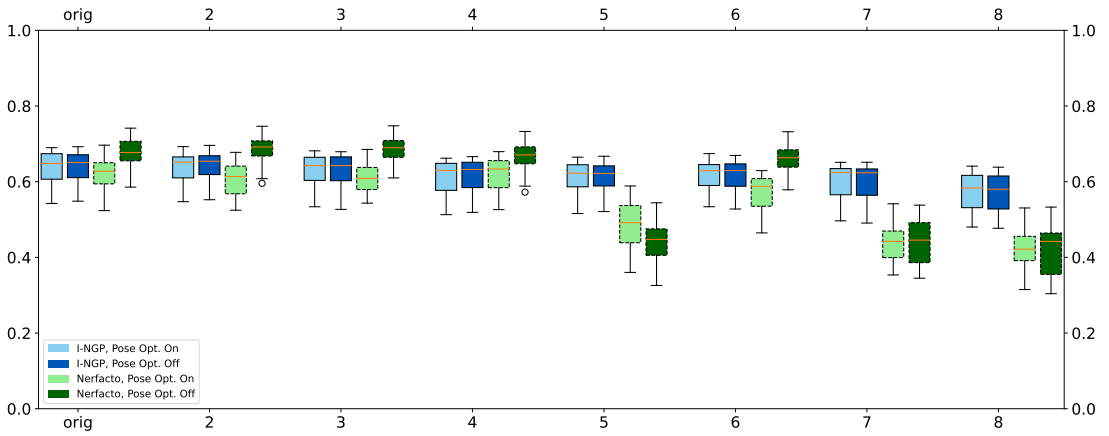

Figure B.63: Boxplot displaying the degradation results measured in SSIM↑ for the "Reduced Image Set" experiment. Stump dataset is used.

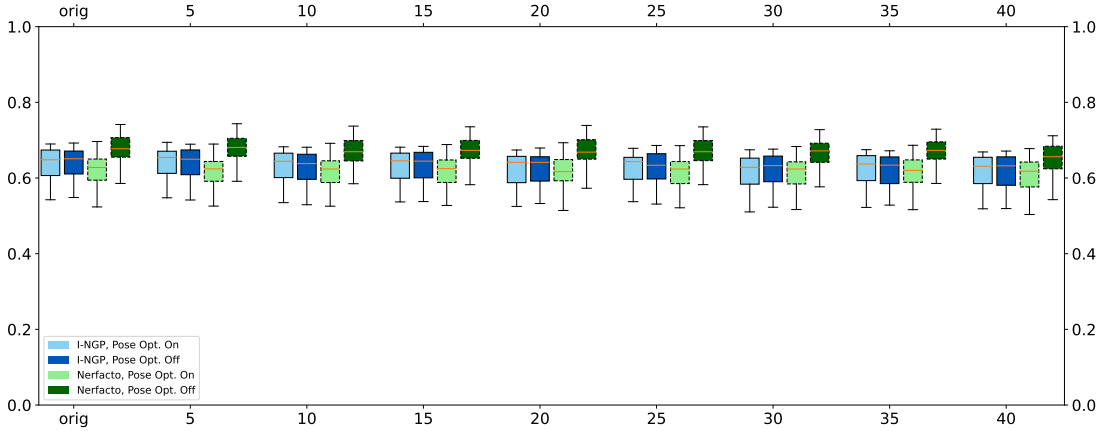

Figure B.64: Boxplot displaying the degradation results measured in SSIM↑ for the "Gamma Correction" experiment. Stump dataset is used.

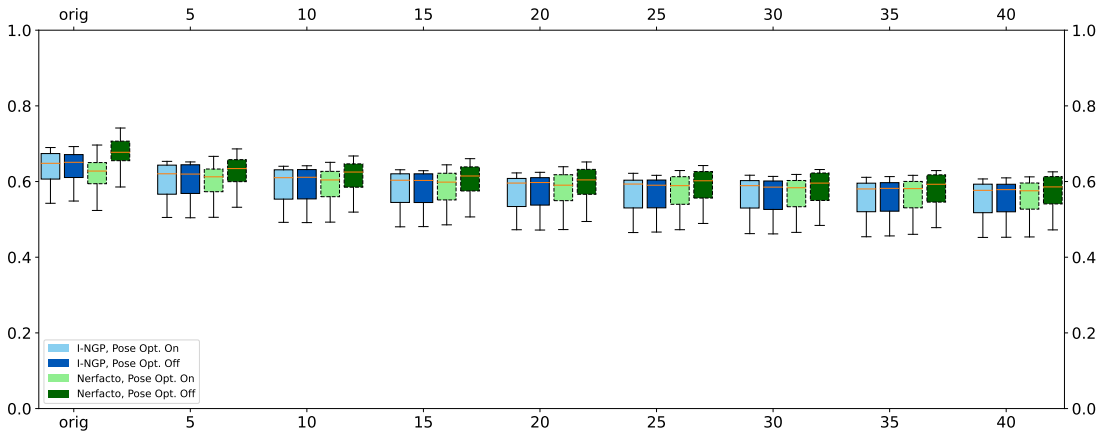

Figure B.65: Boxplot displaying the degradation results measured in SSIM↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for green color. Stump dataset is used.

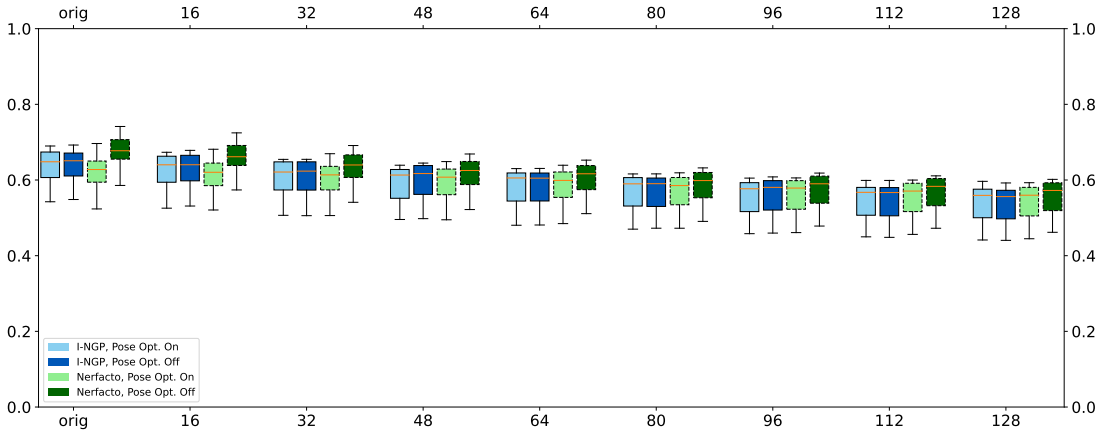

Figure B.66: Boxplot displaying the degradation results measured in SSIM↑ for the "Image Noise" experiment. Stump dataset is used.

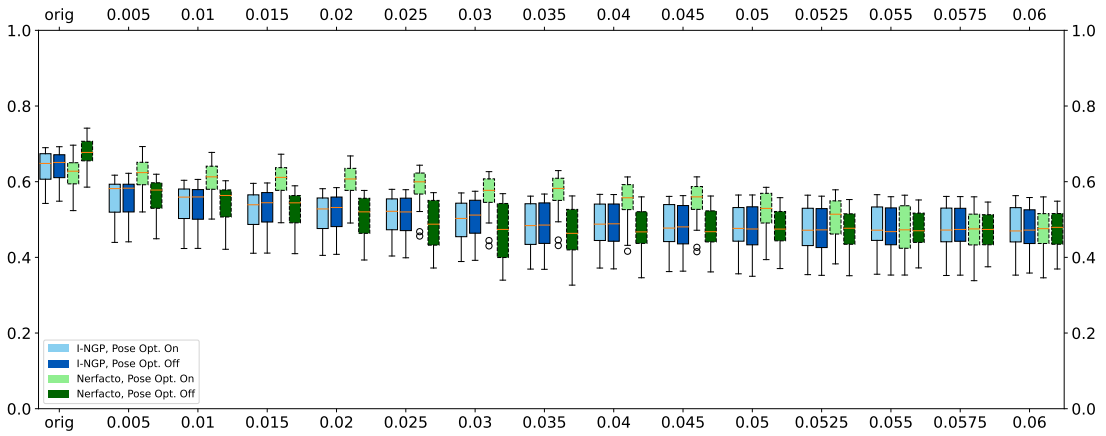

Figure B.67: Boxplot displaying the degradation results measured in SSIM↑ for the "Orientation Noise" experiment. Stump dataset is used.

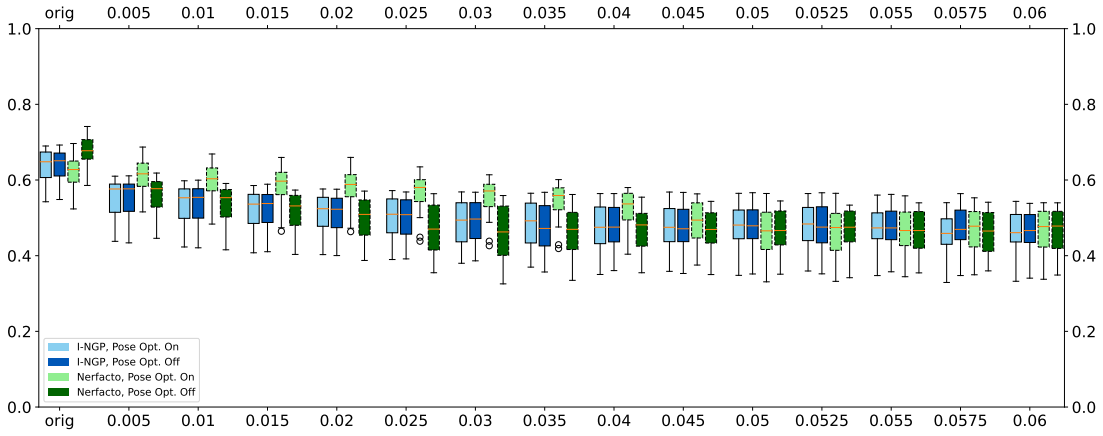

Figure B.68: Boxplot displaying the degradation results measured in SSIM↑ for the "Combined Pose Noise" experiment. Stump dataset is used.

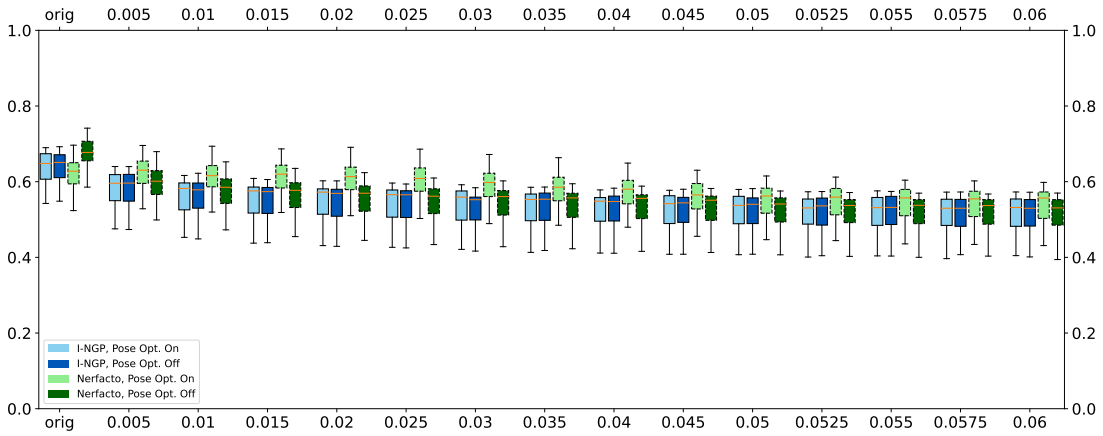

Figure B.69: Boxplot displaying the degradation results measured in SSIM↑ for the "Positional Noise" experiment. Stump dataset is used.

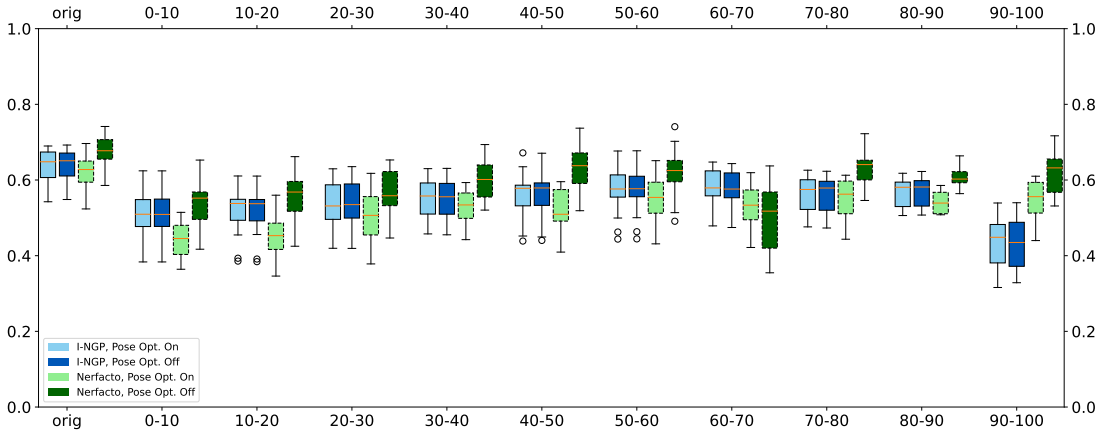

Figure B.70: Boxplot displaying the degradation results measured in SSIM↑ for the "Range" experiment. Stump dataset is used.

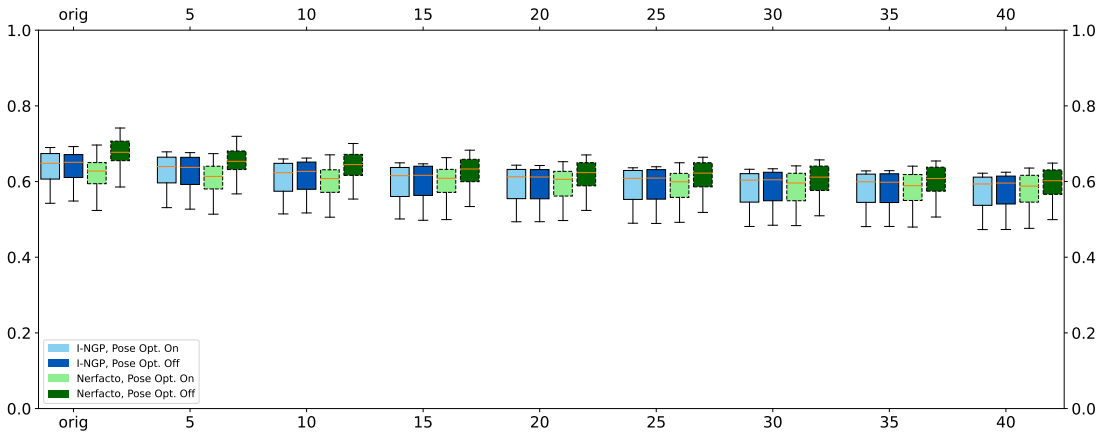

Figure B.71: Boxplot displaying the degradation results measured in SSIM↑ for the "Channel-specific Image Pepper and Salt Noise" experiment for red color. Stump dataset is used.

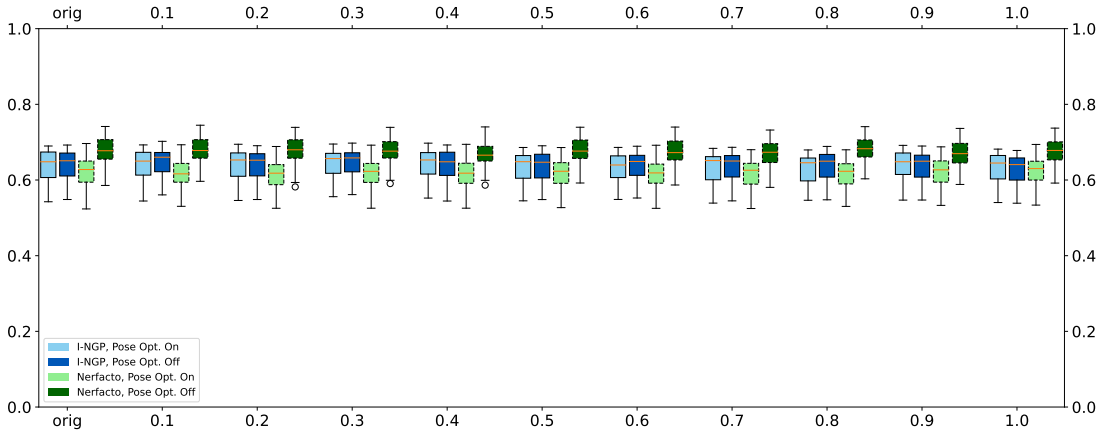

Figure B.72: Boxplot displaying the degradation results measured in SSIM↑ for the "Saturation Change" experiment. Stump dataset is used.

B.1.4. Tables

Table B.1: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Orientation Noise 0.005	15.9131	-29.96%	0.7047	-21.51%	0.3109	187.57%
Orientation Noise 0.01	10.8351	-52.31%	0.6463	-28.02%	0.4528	318.76%
Orientation Noise 0.015	9.7306	-57.17%	0.6584	-26.67%	0.4798	343.79%
Orientation Noise 0.02	8.6977	-61.72%	0.6261	-30.27%	0.5315	391.61%
Orientation Noise 0.025	9.1537	-59.71%	0.6987	-22.18%	0.4970	359.64%
Orientation Noise 0.03	8.7506	-61.49%	0.6626	-26.20%	0.5514	409.97%
Orientation Noise 0.035	8.7722	-61.39%	0.6603	-26.45%	0.5777	434.27%
Orientation Noise 0.04	8.8555	-61.03%	0.6738	-24.95%	0.5735	430.38%
Orientation Noise 0.045	8.8045	-61.25%	0.6302	-29.81%	0.6348	487.11%
Orientation Noise 0.05	9.1590	-59.69%	0.6917	-22.96%	0.5698	427.02%
Orientation Noise 0.0525	9.3422	-58.88%	0.7052	-21.45%	0.5459	404.89%
Orientation Noise 0.055	9.1383	-59.78%	0.6830	-23.93%	0.5704	427.55%
Orientation Noise 0.0575	9.5367	-58.03%	0.7150	-20.37%	0.5261	386.59%
Orientation Noise 0.06	9.2853	-59.13%	0.6917	-22.96%	0.5762	432.92%
Combined Noise 0.005	15.2469	-32.90%	0.6948	-22.61%	0.3221	197.88%
Combined Noise 0.01	10.7782	-52.56%	0.6550	-27.05%	0.4580	323.55%
Combined Noise 0.015	9.1405	-59.77%	0.6362	-29.14%	0.5158	377.01%
Combined Noise 0.02	8.6140	-62.09%	0.6401	-28.71%	0.5480	406.81%
Combined Noise 0.025	9.1303	-59.82%	0.6871	-23.47%	0.5228	383.56%
Combined Noise 0.03	9.1083	-59.91%	0.6938	-22.73%	0.5342	394.05%
Combined Noise 0.035	8.8945	-60.85%	0.6817	-24.07%	0.5760	432.76%
Combined Noise 0.04	8.9550	-60.59%	0.6677	-25.63%	0.5836	439.79%
Combined Noise 0.045	9.3120	-59.02%	0.7001	-22.03%	0.5539	412.28%
Combined Noise 0.05	9.0749	-60.06%	0.6926	-22.86%	0.5500	408.67%
Combined Noise 0.0525	9.2081	-59.47%	0.7056	-21.41%	0.5177	378.85%
Combined Noise 0.055	9.1102	-59.90%	0.6911	-23.03%	0.5505	409.18%
Combined Noise 0.0575	9.0590	-60.13%	0.7033	-21.67%	0.5429	402.08%
Combined Noise 0.06	9.2888	-59.12%	0.7093	-21.00%	0.5314	391.49%
Positional Noise 0.005	22.0628	-2.90%	0.8404	-6.40%	0.1586	46.72%
Positional Noise 0.01	19.5895	-13.78%	0.7717	-14.04%	0.2266	109.58%
Positional Noise 0.015	17.9458	-21.02%	0.7348	-18.16%	0.2699	149.65%
Positional Noise 0.02	16.0823	-29.22%	0.7000	-22.03%	0.3223	198.06%
Positional Noise 0.025	15.0428	-33.79%	0.6827	-23.96%	0.3565	229.76%
Positional Noise 0.03	13.4193	-40.94%	0.6617	-26.30%	0.3992	269.21%
Positional Noise 0.035	12.7494	-43.89%	0.6644	-26.00%	0.4008	270.64%
Positional Noise 0.04	11.7127	-48.45%	0.6531	-27.26%	0.4275	295.39%
Positional Noise 0.045	11.1237	-51.04%	0.6764	-24.66%	0.4293	297.04%
Positional Noise 0.05	10.3730	-54.35%	0.6639	-26.05%	0.4550	320.80%
Positional Noise 0.0525	10.1346	-55.40%	0.6581	-26.70%	0.4740	338.41%
Positional Noise 0.055	9.8319	-56.73%	0.6481	-27.82%	0.4772	341.36%
Positional Noise 0.0575	9.2857	-59.13%	0.6230	-30.61%	0.5062	368.16%
Positional Noise 0.06	9.6247	-57.64%	0.6582	-26.69%	0.4970	359.65%

Table B.2: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.7211	-	0.8978	-	0.1081	-
Orientation Noise 0.005	15.9131	-29.96%	0.7047	-21.51%	0.3109	187.57%
Orientation Noise 0.01	10.8351	-52.31%	0.6463	-28.02%	0.4528	318.76%
Orientation Noise 0.015	9.7306	-57.17%	0.6584	-26.67%	0.4798	343.79%
Orientation Noise 0.02	8.6977	-61.72%	0.6261	-30.27%	0.5315	391.61%
Orientation Noise 0.025	9.1537	-59.71%	0.6987	-22.18%	0.4970	359.64%
Orientation Noise 0.03	8.7506	-61.49%	0.6626	-26.20%	0.5514	409.97%
Orientation Noise 0.035	8.7722	-61.39%	0.6603	-26.45%	0.5777	434.27%
Orientation Noise 0.04	8.8555	-61.03%	0.6738	-24.95%	0.5735	430.38%
Orientation Noise 0.045	8.8045	-61.25%	0.6302	-29.81%	0.6348	487.11%
Orientation Noise 0.05	9.1590	-59.69%	0.6917	-22.96%	0.5698	427.02%
Orientation Noise 0.0525	9.3422	-58.88%	0.7052	-21.45%	0.5459	404.89%
Orientation Noise 0.055	9.1383	-59.78%	0.6830	-23.93%	0.5704	427.55%
Orientation Noise 0.0575	9.5367	-58.03%	0.7150	-20.37%	0.5261	386.59%
Orientation Noise 0.06	9.2853	-59.13%	0.6917	-22.96%	0.5762	432.92%
Combined Noise 0.005	15.2469	-32.90%	0.6948	-22.61%	0.3221	197.88%
Combined Noise 0.01	10.7782	-52.56%	0.6550	-27.05%	0.4580	323.55%
Combined Noise 0.015	9.1405	-59.77%	0.6362	-29.14%	0.5158	377.01%
Combined Noise 0.02	8.6140	-62.09%	0.6401	-28.71%	0.5480	406.81%
Combined Noise 0.025	9.1303	-59.82%	0.6871	-23.47%	0.5228	383.56%
Combined Noise 0.03	9.1083	-59.91%	0.6938	-22.73%	0.5342	394.05%
Combined Noise 0.035	8.8945	-60.85%	0.6817	-24.07%	0.5760	432.76%
Combined Noise 0.04	8.9550	-60.59%	0.6677	-25.63%	0.5836	439.79%
Combined Noise 0.045	9.3120	-59.02%	0.7001	-22.03%	0.5539	412.28%
Combined Noise 0.05	9.0749	-60.06%	0.6926	-22.86%	0.5500	408.67%
Combined Noise 0.0525	9.2081	-59.47%	0.7056	-21.41%	0.5177	378.85%
Combined Noise 0.055	9.1102	-59.90%	0.6911	-23.03%	0.5505	409.18%
Combined Noise 0.0575	9.0590	-60.13%	0.7033	-21.67%	0.5429	402.08%
Combined Noise 0.06	9.2888	-59.12%	0.7093	-21.00%	0.5314	391.49%
Positional Noise 0.005	22.0628	-2.90%	0.8404	-6.40%	0.1586	46.72%
Positional Noise 0.01	19.5895	-13.78%	0.7717	-14.04%	0.2266	109.58%
Positional Noise 0.015	17.9458	-21.02%	0.7348	-18.16%	0.2699	149.65%
Positional Noise 0.02	16.0823	-29.22%	0.7000	-22.03%	0.3223	198.06%
Positional Noise 0.025	15.0428	-33.79%	0.6827	-23.96%	0.3565	229.76%
Positional Noise 0.03	13.4193	-40.94%	0.6617	-26.30%	0.3992	269.21%
Positional Noise 0.035	12.7494	-43.89%	0.6644	-26.00%	0.4008	270.64%
Positional Noise 0.04	11.7127	-48.45%	0.6531	-27.26%	0.4275	295.39%
Positional Noise 0.045	11.1237	-51.04%	0.6764	-24.66%	0.4293	297.04%
Positional Noise 0.05	10.3730	-54.35%	0.6639	-26.05%	0.4550	320.80%
Positional Noise 0.0525	10.1346	-55.40%	0.6581	-26.70%	0.4740	338.41%
Positional Noise 0.055	9.8319	-56.73%	0.6481	-27.82%	0.4772	341.36%
Positional Noise 0.0575	9.2857	-59.13%	0.6230	-30.61%	0.5062	368.16%
Positional Noise 0.06	9.6247	-57.64%	0.6582	-26.69%	0.4970	359.65%

Table B.3: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Color noise degradations. Nerfacto model is used. Camera optimizer is disabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.7211	-	0.8978	-	0.1081	-
PnS Blue Channel 5	20.9781	-7.67%	0.7930	-11.68%	0.1102	1.94%
PnS Blue Channel 10	20.6203	-9.25%	0.7900	-12.01%	0.1187	9.75%
PnS Blue Channel 15	20.9647	-7.73%	0.7953	-11.41%	0.1140	5.46%
PnS Blue Channel 20	20.3803	-10.30%	0.7844	-12.63%	0.1224	13.21%
PnS Blue Channel 25	20.3666	-10.36%	0.7872	-12.32%	0.1200	10.97%
PnS Blue Channel 30	20.2210	-11.00%	0.7865	-12.40%	0.1291	19.38%
PnS Blue Channel 35	20.1313	-11.40%	0.7915	-11.84%	0.1346	24.49%
PnS Blue Channel 40	20.2812	-10.74%	0.7922	-11.76%	0.1322	22.24%
PnS Green Channel 5	21.1890	-6.74%	0.8027	-10.60%	0.1181	9.23%
PnS Green Channel 10	21.5677	-5.08%	0.8128	-9.47%	0.1132	4.71%
PnS Green Channel 15	21.0722	-7.26%	0.8107	-9.70%	0.1324	22.44%
PnS Green Channel 20	20.8064	-8.43%	0.7933	-11.64%	0.1504	39.07%
PnS Green Channel 25	20.4071	-10.18%	0.7882	-12.21%	0.1574	45.60%
PnS Green Channel 30	19.9051	-12.39%	0.7887	-12.15%	0.1676	55.05%
PnS Green Channel 35	19.8359	-12.70%	0.7913	-11.86%	0.1769	63.62%
PnS Green Channel 40	19.9731	-12.09%	0.7991	-11.00%	0.1822	68.54%
Image Noise 16	19.1705	-15.63%	0.8122	-9.54%	0.2239	107.09%
Image Noise 32	18.0602	-20.51%	0.7536	-16.06%	0.3149	191.27%
Image Noise 48	17.4892	-23.03%	0.7852	-12.55%	0.2668	146.76%
Image Noise 64	16.4497	-27.60%	0.7196	-19.86%	0.3586	231.62%
Image Noise 80	15.3651	-32.38%	0.6919	-22.94%	0.4281	295.94%
Image Noise 96	14.6345	-35.59%	0.6891	-23.24%	0.4477	314.03%
Image Noise 112	13.7110	-39.66%	0.7106	-20.85%	0.4434	310.12%
Image Noise 128	13.6024	-40.13%	0.6432	-28.36%	0.5487	407.48%
PnS Red Channel 5	21.2297	-6.56%	0.7988	-11.04%	0.1101	1.87%
PnS Red Channel 10	20.6375	-9.17%	0.7882	-12.22%	0.1256	16.17%
PnS Red Channel 15	20.0606	-11.71%	0.7791	-13.22%	0.1284	18.77%
PnS Red Channel 20	20.6216	-9.24%	0.8003	-10.87%	0.1324	22.41%
PnS Red Channel 25	20.2349	-10.94%	0.7994	-10.97%	0.1486	37.41%
PnS Red Channel 30	19.8850	-12.48%	0.7913	-11.87%	0.1533	41.79%
PnS Red Channel 35	19.6402	-13.56%	0.7979	-11.13%	0.1557	43.96%
PnS Red Channel 40	18.2023	-19.89%	0.7703	-14.20%	0.2052	89.78%

Table B.4: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Lightning degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.7211	-	0.8978	-	0.1081	-
Gamma Correction 5	22.7463	0.11%	0.8955	-0.26%	0.1189	9.92%
Gamma Correction 10	21.6343	-4.78%	0.8759	-2.44%	0.1397	29.23%
Gamma Correction 15	21.5043	-5.35%	0.8805	-1.93%	0.1403	29.79%
Gamma Correction 20	22.1030	-2.72%	0.8907	-0.79%	0.1135	4.99%
Gamma Correction 25	22.0556	-2.93%	0.8709	-3.00%	0.1551	43.49%
Gamma Correction 30	19.0653	-16.09%	0.8222	-8.42%	0.2506	131.74%
Gamma Correction 35	20.8435	-8.26%	0.8639	-3.78%	0.1578	45.96%
Gamma Correction 40	20.7597	-8.63%	0.8643	-3.73%	0.1391	28.67%
Saturation Change 0.1	22.7394	0.08%	0.8989	0.12%	0.1024	-5.30%
Saturation Change 0.2	22.8638	0.63%	0.9014	0.40%	0.1060	-1.94%
Saturation Change 0.3	22.3777	-1.51%	0.8946	-0.36%	0.1141	5.49%
Saturation Change 0.4	22.3100	-1.81%	0.8919	-0.66%	0.1159	7.19%
Saturation Change 0.5	22.7656	0.20%	0.9018	0.44%	0.0977	-9.67%
Saturation Change 0.6	21.7770	-4.16%	0.8871	-1.20%	0.1226	13.39%
Saturation Change 0.7	21.9946	-3.20%	0.8846	-1.47%	0.1288	19.15%
Saturation Change 0.8	21.8538	-3.82%	0.8794	-2.05%	0.1367	26.40%
Saturation Change 0.9	21.1222	-7.04%	0.8747	-2.57%	0.1345	24.40%
Saturation Change 1.0	22.3543	-1.61%	0.8874	-1.16%	0.1185	9.59%

Table B.5: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Reductions degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.7211	-	0.8978	-	0.1081	-
Reduced Image Set 2	13.7698	-39.40%	0.7794	-13.20%	0.3121	188.65%
Reduced Image Set 3	8.8811	-60.91%	0.6317	-29.64%	0.6729	522.38%
Reduced Image Set 4	9.6842	-57.38%	0.6519	-27.40%	0.6399	491.85%
Reduced Image Set 5	9.6234	-57.65%	0.6509	-27.51%	0.7269	572.28%
Reduced Image Set 6	9.2167	-59.44%	0.6630	-26.16%	0.6914	539.44%
Reduced Image Set 7	9.8147	-56.80%	0.6618	-26.29%	0.6539	504.76%
Reduced Image Set 8	9.5751	-57.86%	0.6693	-25.45%	0.6298	482.47%
Saturation Change 0.1	22.7394	0.08%	0.8989	0.12%	0.1024	-5.30%
Saturation Change 0.2	22.8638	0.63%	0.9014	0.40%	0.1060	-1.94%
Saturation Change 0.3	22.3777	-1.51%	0.8946	-0.36%	0.1141	5.49%
Saturation Change 0.4	22.3100	-1.81%	0.8919	-0.66%	0.1159	7.19%
Saturation Change 0.5	22.7656	0.20%	0.9018	0.44%	0.0977	-9.67%
Saturation Change 0.6	21.7770	-4.16%	0.8871	-1.20%	0.1226	13.39%
Saturation Change 0.7	21.9946	-3.20%	0.8846	-1.47%	0.1288	19.15%
Saturation Change 0.8	21.8538	-3.82%	0.8794	-2.05%	0.1367	26.40%
Saturation Change 0.9	21.1222	-7.04%	0.8747	-2.57%	0.1345	24.40%
Saturation Change 1.0	22.3543	-1.61%	0.8874	-1.16%	0.1185	9.59%

Table B.6: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.4162	-	0.8151	-	0.0972	-
Orientation Noise 0.005	21.1351	-1.31%	0.8058	-1.13%	0.1121	15.40%
Orientation Noise 0.01	21.0704	-1.61%	0.7945	-2.53%	0.1022	5.20%
Orientation Noise 0.015	21.8301	1.93%	0.8299	1.82%	0.1005	3.47%
Orientation Noise 0.02	22.2191	3.75%	0.8498	4.26%	0.1004	3.36%
Orientation Noise 0.025	21.0228	-1.84%	0.8095	-0.69%	0.1076	10.74%
Orientation Noise 0.03	18.6520	-12.91%	0.7792	-4.41%	0.1902	95.75%
Orientation Noise 0.035	13.9721	-34.76%	0.7225	-11.36%	0.3716	282.42%
Orientation Noise 0.04	9.9172	-53.69%	0.6925	-15.04%	0.5158	430.78%
Orientation Noise 0.045	8.7126	-59.32%	0.6475	-20.56%	0.5979	515.31%
Orientation Noise 0.05	8.1173	-62.10%	0.5804	-28.80%	0.6945	614.71%
Orientation Noise 0.0525	8.5403	-60.12%	0.6531	-19.87%	0.6190	537.03%
Orientation Noise 0.055	9.2422	-56.84%	0.6895	-15.40%	0.5741	490.82%
Orientation Noise 0.0575	9.1463	-57.29%	0.6985	-14.31%	0.5694	485.96%
Orientation Noise 0.06	9.4821	-55.72%	0.7032	-13.72%	0.5597	475.95%
Combined Noise 0.005	21.6250	0.97%	0.8135	-0.20%	0.1001	2.98%
Combined Noise 0.01	21.6868	1.26%	0.8194	0.53%	0.1026	5.57%
Combined Noise 0.015	21.7802	1.70%	0.8199	0.59%	0.1008	3.73%
Combined Noise 0.02	21.0399	-1.76%	0.7943	-2.55%	0.1131	16.35%
Combined Noise 0.025	20.4644	-4.44%	0.7799	-4.32%	0.1287	32.40%
Combined Noise 0.03	19.2692	-10.03%	0.7773	-4.63%	0.1526	57.07%
Combined Noise 0.035	11.7842	-44.98%	0.6713	-17.64%	0.4766	390.45%
Combined Noise 0.04	10.1265	-52.72%	0.6897	-15.39%	0.5035	418.15%
Combined Noise 0.045	9.1662	-57.20%	0.6764	-17.01%	0.5696	486.15%
Combined Noise 0.05	9.2631	-56.75%	0.6942	-14.83%	0.5652	481.57%
Combined Noise 0.0525	9.0765	-57.62%	0.6936	-14.91%	0.5404	456.12%
Combined Noise 0.055	9.0197	-57.88%	0.6903	-15.31%	0.5558	471.92%
Combined Noise 0.0575	9.0991	-57.51%	0.7016	-13.92%	0.5566	472.81%
Combined Noise 0.06	9.1874	-57.10%	0.7099	-12.90%	0.5428	458.58%
Positional Noise 0.005	20.1217	-6.04%	0.7768	-4.70%	0.1101	13.25%
Positional Noise 0.01	21.2666	-0.70%	0.8122	-0.36%	0.1076	10.76%
Positional Noise 0.015	21.2434	-0.81%	0.8024	-1.56%	0.1054	8.42%
Positional Noise 0.02	20.0859	-6.21%	0.7747	-4.95%	0.1244	27.98%
Positional Noise 0.025	21.1208	-1.38%	0.8081	-0.85%	0.1057	8.75%
Positional Noise 0.03	21.4354	0.09%	0.8090	-0.75%	0.1186	22.05%
Positional Noise 0.035	20.2002	-5.68%	0.7740	-5.04%	0.1345	38.39%
Positional Noise 0.04	20.6842	-3.42%	0.7900	-3.08%	0.1451	49.31%
Positional Noise 0.045	21.0121	-1.89%	0.7933	-2.67%	0.1511	55.47%
Positional Noise 0.05	19.3160	-9.81%	0.7610	-6.64%	0.1842	89.56%
Positional Noise 0.0525	20.4591	-4.47%	0.7828	-3.96%	0.1768	81.94%
Positional Noise 0.055	19.1451	-10.60%	0.7530	-7.62%	0.1932	98.80%
Positional Noise 0.0575	19.3522	-9.64%	0.7555	-7.31%	0.1977	103.41%
Positional Noise 0.06	19.0831	-10.89%	0.7585	-6.94%	0.2033	109.16%

Table B.7: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Color noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.4162	-	0.8151	-	0.0972	-
PnS Blue Channel 5	20.4030	-4.73%	0.7812	-4.15%	0.1149	18.22%
PnS Blue Channel 10	20.6805	-3.44%	0.7991	-1.97%	0.1195	22.94%
PnS Blue Channel 15	20.9637	-2.11%	0.8033	-1.45%	0.1207	24.24%
PnS Blue Channel 20	20.7969	-2.89%	0.7942	-2.57%	0.1177	21.15%
PnS Blue Channel 25	21.0861	-1.54%	0.8168	0.21%	0.1206	24.14%
PnS Blue Channel 30	19.9683	-6.76%	0.7808	-4.20%	0.1293	33.09%
PnS Blue Channel 35	19.5533	-8.70%	0.7696	-5.59%	0.1496	53.93%
PnS Blue Channel 40	20.1728	-5.81%	0.7873	-3.41%	0.1393	43.40%
PnS Green Channel 5	20.4222	-4.64%	0.7820	-4.06%	0.1131	16.39%
PnS Green Channel 10	21.2609	-0.73%	0.8045	-1.30%	0.1160	19.36%
PnS Green Channel 15	21.0179	-1.86%	0.7993	-1.94%	0.1390	43.04%
PnS Green Channel 20	20.4297	-4.61%	0.7855	-3.63%	0.1506	54.98%
PnS Green Channel 25	20.4123	-4.69%	0.7960	-2.34%	0.1648	69.55%
PnS Green Channel 30	19.9334	-6.92%	0.7906	-3.00%	0.1737	78.72%
PnS Green Channel 35	20.3970	-4.76%	0.8100	-0.62%	0.1734	78.40%
PnS Green Channel 40	19.5288	-8.81%	0.7853	-3.66%	0.1859	91.28%
Image Noise 16	19.8415	-7.35%	0.7521	-7.73%	0.1805	85.72%
Image Noise 32	19.5432	-8.75%	0.7616	-6.57%	0.2054	111.38%
Image Noise 48	18.3202	-14.46%	0.7511	-7.85%	0.2070	112.99%
Image Noise 64	16.2063	-24.33%	0.7318	-10.22%	0.3059	214.81%
Image Noise 80	15.1849	-29.10%	0.7156	-12.21%	0.3470	257.08%
Image Noise 96	14.8677	-30.58%	0.7524	-7.70%	0.3295	239.03%
Image Noise 112	14.1477	-33.94%	0.7273	-10.77%	0.3857	296.93%
Image Noise 128	13.6106	-36.45%	0.7177	-11.95%	0.4098	321.73%
PnS Red Channel 5	20.7470	-3.12%	0.7877	-3.36%	0.1083	11.42%
PnS Red Channel 10	21.1786	-1.11%	0.7996	-1.90%	0.1133	16.60%
PnS Red Channel 15	20.5229	-4.17%	0.7843	-3.78%	0.1283	32.02%
PnS Red Channel 20	21.0186	-1.86%	0.8136	-0.18%	0.1342	38.07%
PnS Red Channel 25	19.8018	-7.54%	0.7823	-4.02%	0.1595	64.16%
PnS Red Channel 30	19.3712	-9.55%	0.7770	-4.67%	0.1560	60.49%
PnS Red Channel 35	19.6073	-8.45%	0.7943	-2.55%	0.1650	69.81%
PnS Red Channel 40	19.3481	-9.66%	0.8103	-0.59%	0.1745	79.53%

Table B.8: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Lightning degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.4162	-	0.8151	-	0.0972	-
Gamma Correction 5	20.9589	-2.14%	0.8039	-1.37%	0.1094	12.56%
Gamma Correction 10	20.5738	-3.93%	0.7890	-3.19%	0.1118	15.01%
Gamma Correction 15	20.8172	-2.80%	0.7949	-2.48%	0.1107	13.95%
Gamma Correction 20	20.4520	-4.50%	0.7877	-3.36%	0.1188	22.22%
Gamma Correction 25	21.3486	-0.32%	0.8121	-0.37%	0.1127	15.96%
Gamma Correction 30	19.1507	-10.58%	0.7629	-6.41%	0.1636	68.32%
Gamma Correction 35	20.3129	-5.15%	0.7931	-2.70%	0.1180	21.44%
Gamma Correction 40	18.5164	-13.54%	0.7609	-6.65%	0.1546	59.07%
Saturation Change 0.1	21.2584	-0.74%	0.8032	-1.45%	0.1003	3.18%
Saturation Change 0.2	20.6252	-3.69%	0.7845	-3.75%	0.1095	12.70%
Saturation Change 0.3	20.9075	-2.38%	0.7994	-1.93%	0.1011	3.99%
Saturation Change 0.4	20.9366	-2.24%	0.8080	-0.87%	0.1212	24.69%
Saturation Change 0.5	20.7200	-3.25%	0.7984	-2.05%	0.1091	12.28%
Saturation Change 0.6	20.1056	-6.12%	0.7814	-4.13%	0.1256	29.28%
Saturation Change 0.7	19.7731	-7.67%	0.7705	-5.47%	0.1198	23.28%
Saturation Change 0.8	21.0166	-1.87%	0.8067	-1.03%	0.1152	18.58%
Saturation Change 0.9	20.7023	-3.33%	0.8157	0.07%	0.1292	32.92%
Saturation Change 1.0	20.9323	-2.26%	0.7935	-2.65%	0.1041	7.12%

Table B.9: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Reductions degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.4162	-	0.8151	-	0.0972	-
Reduced Image Set 2	12.1123	-43.44%	0.6953	-14.70%	0.4291	341.60%
Reduced Image Set 3	8.8804	-58.53%	0.6461	-20.73%	0.6729	592.50%
Reduced Image Set 4	9.4659	-55.80%	0.6468	-20.65%	0.7454	667.08%
Reduced Image Set 5	9.4766	-55.75%	0.6628	-18.69%	0.7144	635.19%
Reduced Image Set 6	9.3531	-56.33%	0.6695	-17.86%	0.6858	605.73%
Reduced Image Set 7	9.4351	-55.94%	0.6478	-20.52%	0.7408	662.33%
Reduced Image Set 8	9.5537	-55.39%	0.7008	-14.02%	0.5977	515.10%
Saturation Change 0.1	21.2584	-0.74%	0.8032	-1.45%	0.1003	3.18%
Saturation Change 0.2	20.6252	-3.69%	0.7845	-3.75%	0.1095	12.70%
Saturation Change 0.3	20.9075	-2.38%	0.7994	-1.93%	0.1011	3.99%
Saturation Change 0.4	20.9366	-2.24%	0.8080	-0.87%	0.1212	24.69%
Saturation Change 0.5	20.7200	-3.25%	0.7984	-2.05%	0.1091	12.28%
Saturation Change 0.6	20.1056	-6.12%	0.7814	-4.13%	0.1256	29.28%
Saturation Change 0.7	19.7731	-7.67%	0.7705	-5.47%	0.1198	23.28%
Saturation Change 0.8	21.0166	-1.87%	0.8067	-1.03%	0.1152	18.58%
Saturation Change 0.9	20.7023	-3.33%	0.8157	0.07%	0.1292	32.92%
Saturation Change 1.0	20.9323	-2.26%	0.7935	-2.65%	0.1041	7.12%

Table B.10: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.0994	-	0.6864	-	0.4207	-
Orientation Noise 0.005	20.4299	-7.55%	0.5642	-17.80%	0.6915	64.36%
Orientation Noise 0.01	19.7879	-10.46%	0.5430	-20.90%	0.7279	73.03%
Orientation Noise 0.015	19.0663	-13.72%	0.5271	-23.21%	0.7372	75.24%
Orientation Noise 0.02	18.5732	-15.96%	0.5113	-25.51%	0.7312	73.82%
Orientation Noise 0.025	18.2444	-17.44%	0.4896	-28.67%	0.7212	71.44%
Orientation Noise 0.03	17.1571	-22.36%	0.4699	-31.55%	0.7246	72.23%
Orientation Noise 0.035	15.6633	-29.12%	0.4652	-32.22%	0.7472	77.62%
Orientation Noise 0.04	14.2635	-35.46%	0.4698	-31.56%	0.7996	90.06%
Orientation Noise 0.045	13.9215	-37.01%	0.4771	-30.49%	0.8318	97.71%
Orientation Noise 0.05	13.5234	-38.81%	0.4748	-30.83%	0.8466	101.25%
Orientation Noise 0.0525	13.3287	-39.69%	0.4734	-31.02%	0.8576	103.86%
Orientation Noise 0.055	13.5216	-38.81%	0.4748	-30.82%	0.8646	105.52%
Orientation Noise 0.0575	13.4168	-39.29%	0.4771	-30.50%	0.8708	106.99%
Orientation Noise 0.06	13.4015	-39.36%	0.4787	-30.26%	0.8693	106.63%
Combined Noise 0.005	20.6292	-6.65%	0.5610	-18.26%	0.6994	66.24%
Combined Noise 0.01	19.3571	-12.41%	0.5353	-22.01%	0.7352	74.75%
Combined Noise 0.015	18.9198	-14.39%	0.5175	-24.61%	0.7256	72.48%
Combined Noise 0.02	18.4495	-16.52%	0.5007	-27.05%	0.7205	71.26%
Combined Noise 0.025	17.6030	-20.35%	0.4711	-31.37%	0.7183	70.75%
Combined Noise 0.03	16.1718	-26.82%	0.4573	-33.38%	0.7289	73.26%
Combined Noise 0.035	14.4063	-34.81%	0.4630	-32.54%	0.7821	85.91%
Combined Noise 0.04	13.9076	-37.07%	0.4705	-31.45%	0.8151	93.75%
Combined Noise 0.045	13.5670	-38.61%	0.4711	-31.37%	0.8411	99.92%
Combined Noise 0.05	13.5301	-38.78%	0.4723	-31.20%	0.8551	103.26%
Combined Noise 0.0525	13.2396	-40.09%	0.4716	-31.30%	0.8751	108.01%
Combined Noise 0.055	13.1873	-40.33%	0.4684	-31.77%	0.8815	109.52%
Combined Noise 0.0575	13.2560	-40.02%	0.4687	-31.72%	0.8748	107.94%
Combined Noise 0.06	13.0521	-40.94%	0.4735	-31.01%	0.8940	112.51%
Positional Noise 0.005	21.4875	-2.77%	0.6032	-12.12%	0.6079	44.49%
Positional Noise 0.01	20.9369	-5.26%	0.5798	-15.54%	0.6690	59.03%
Positional Noise 0.015	20.3856	-7.75%	0.5663	-17.50%	0.6892	63.82%
Positional Noise 0.02	20.0720	-9.17%	0.5562	-18.97%	0.6983	66.00%
Positional Noise 0.025	19.4414	-12.03%	0.5465	-20.38%	0.7070	68.07%
Positional Noise 0.03	19.4218	-12.12%	0.5423	-21.00%	0.7082	68.33%
Positional Noise 0.035	19.2249	-13.01%	0.5357	-21.95%	0.7086	68.43%
Positional Noise 0.04	19.0551	-13.78%	0.5303	-22.74%	0.7114	69.10%
Positional Noise 0.045	18.8673	-14.63%	0.5260	-23.37%	0.7133	69.55%
Positional Noise 0.05	18.7678	-15.08%	0.5200	-24.24%	0.7102	68.81%
Positional Noise 0.0525	18.3957	-16.76%	0.5169	-24.69%	0.7158	70.14%
Positional Noise 0.055	18.6042	-15.82%	0.5156	-24.88%	0.7132	69.53%
Positional Noise 0.0575	18.5919	-15.87%	0.5158	-24.86%	0.7115	69.11%
Positional Noise 0.06	18.3446	-16.99%	0.5115	-25.48%	0.7162	70.24%

Table B.11: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Color noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.0994	-	0.6864	-	0.4207	-
PnS Blue Channel 5	22.3390	1.08%	0.6842	-0.32%	0.4311	2.47%
PnS Blue Channel 10	21.4919	-2.75%	0.6656	-3.04%	0.4706	11.87%
PnS Blue Channel 15	21.3261	-3.50%	0.6558	-4.46%	0.4956	17.82%
PnS Blue Channel 20	20.6725	-6.46%	0.6498	-5.34%	0.5135	22.06%
PnS Blue Channel 25	20.3682	-7.83%	0.6422	-6.44%	0.5425	28.95%
PnS Blue Channel 30	19.8280	-10.28%	0.6379	-7.07%	0.5557	32.09%
PnS Blue Channel 35	19.2286	-12.99%	0.6322	-7.89%	0.5685	35.13%
PnS Blue Channel 40	18.9621	-14.20%	0.6337	-7.68%	0.5721	35.98%
PnS Green Channel 5	22.2059	0.48%	0.6329	-7.80%	0.5297	25.91%
PnS Green Channel 10	22.0132	-0.39%	0.6179	-9.98%	0.5839	38.80%
PnS Green Channel 15	21.3971	-3.18%	0.6073	-11.52%	0.6223	47.92%
PnS Green Channel 20	20.4033	-7.67%	0.5972	-13.00%	0.6666	58.46%
PnS Green Channel 25	19.9179	-9.87%	0.5900	-14.04%	0.6841	62.62%
PnS Green Channel 30	19.6593	-11.04%	0.5841	-14.91%	0.7141	69.75%
PnS Green Channel 35	19.0637	-13.74%	0.5799	-15.52%	0.7306	73.67%
PnS Green Channel 40	18.5100	-16.24%	0.5748	-16.25%	0.7611	80.91%
Image Noise 16	22.2775	0.81%	0.6712	-2.21%	0.4450	5.78%
Image Noise 32	22.2912	0.87%	0.6391	-6.89%	0.5044	19.90%
Image Noise 48	22.0870	-0.06%	0.6190	-9.82%	0.5357	27.33%
Image Noise 64	22.0394	-0.27%	0.6065	-11.63%	0.5552	31.96%
Image Noise 80	20.4909	-7.28%	0.5870	-14.48%	0.5923	40.78%
Image Noise 96	20.0126	-9.44%	0.5749	-16.24%	0.6258	48.75%
Image Noise 112	19.5043	-11.74%	0.5685	-17.17%	0.6375	51.53%
Image Noise 128	18.3784	-16.84%	0.5575	-18.79%	0.6763	60.75%
PnS Red Channel 5	22.1373	0.17%	0.6625	-3.48%	0.4627	9.98%
PnS Red Channel 10	21.6263	-2.14%	0.6479	-5.61%	0.4997	18.78%
PnS Red Channel 15	21.4487	-2.94%	0.6314	-8.02%	0.5494	30.59%
PnS Red Channel 20	20.8250	-5.77%	0.6208	-9.56%	0.5749	36.65%
PnS Red Channel 25	20.3713	-7.82%	0.6174	-10.06%	0.6071	44.31%
PnS Red Channel 30	19.4466	-12.00%	0.6074	-11.51%	0.6375	51.54%
PnS Red Channel 35	18.9063	-14.45%	0.6047	-11.91%	0.6470	53.79%
PnS Red Channel 40	18.2301	-17.51%	0.5971	-13.02%	0.6654	58.18%

Table B.12: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Lightning degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.0994	-	0.6864	-	0.4207	-
Gamma Correction 5	21.7662	-1.51%	0.6891	0.39%	0.4144	-1.50%
Gamma Correction 10	22.1338	0.16%	0.6828	-0.53%	0.4280	1.73%
Gamma Correction 15	21.9191	-0.82%	0.6826	-0.55%	0.4277	1.66%
Gamma Correction 20	22.3858	1.30%	0.6803	-0.89%	0.4186	-0.51%
Gamma Correction 25	22.2641	0.75%	0.6790	-1.08%	0.4323	2.76%
Gamma Correction 30	22.5412	2.00%	0.6731	-1.94%	0.4373	3.95%
Gamma Correction 35	22.8561	3.42%	0.6788	-1.10%	0.4402	4.64%
Gamma Correction 40	21.8485	-1.14%	0.6567	-4.33%	0.4499	6.93%
Saturation Change 0.1	22.2964	0.89%	0.6913	0.71%	0.4149	-1.39%
Saturation Change 0.2	21.7691	-1.49%	0.6862	-0.02%	0.4256	1.16%
Saturation Change 0.3	22.1472	0.22%	0.6869	0.07%	0.4232	0.60%
Saturation Change 0.4	20.9768	-5.08%	0.6791	-1.06%	0.4395	4.46%
Saturation Change 0.5	21.9821	-0.53%	0.6875	0.16%	0.4327	2.85%
Saturation Change 0.6	22.0082	-0.41%	0.6837	-0.39%	0.4303	2.28%
Saturation Change 0.7	21.4386	-2.99%	0.6787	-1.12%	0.4511	7.23%
Saturation Change 0.8	21.9354	-0.74%	0.6925	0.89%	0.4289	1.95%
Saturation Change 0.9	22.2293	0.59%	0.6813	-0.74%	0.4307	2.39%
Saturation Change 1.0	22.0579	-0.19%	0.6853	-0.16%	0.4496	6.88%

Table B.13: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Reductions degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	22.0994	-	0.6864	-	0.4207	-
Reduced Image Set 2	22.7474	2.93%	0.6970	1.55%	0.4029	-4.23%
Reduced Image Set 3	22.6311	2.41%	0.6976	1.63%	0.4011	-4.67%
Reduced Image Set 4	22.3938	1.33%	0.6763	-1.48%	0.4392	4.39%
Reduced Image Set 5	13.1608	-40.45%	0.4430	-35.47%	0.8076	91.98%
Reduced Image Set 6	22.3056	0.93%	0.6713	-2.21%	0.4503	7.03%
Reduced Image Set 7	12.3303	-44.21%	0.4489	-34.60%	0.8627	105.07%
Reduced Image Set 8	12.0856	-45.31%	0.4277	-37.69%	0.8566	103.62%
Height Reduction 10	17.1702	-22.30%	0.5440	-20.74%	0.6192	47.19%
Height Reduction 20	17.8885	-19.05%	0.5635	-17.90%	0.5686	35.15%
Height Reduction 30	18.7259	-15.27%	0.5779	-15.80%	0.5657	34.47%
Height Reduction 40	19.6979	-10.87%	0.6108	-11.01%	0.5136	22.09%
Height Reduction 50	20.8807	-5.51%	0.6390	-6.90%	0.4579	8.84%
Height Reduction 60	19.7972	-10.42%	0.6306	-8.13%	0.4860	15.52%
Height Reduction 70	14.8763	-32.68%	0.5107	-25.60%	0.6401	52.16%
Height Reduction 80	21.4518	-2.93%	0.6381	-7.04%	0.4721	12.22%
Height Reduction 90	19.3177	-12.59%	0.6149	-10.41%	0.5144	22.27%
Height Reduction 100	21.0362	-4.81%	0.6299	-8.23%	0.4945	17.55%

Table B.14: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.9259	-	0.6284	-	0.5139	-
Combined Noise 0.005	21.6127	-1.43%	0.6199	-1.36%	0.5119	-0.37%
Combined Noise 0.01	21.0954	-3.79%	0.6025	-4.13%	0.5230	1.78%
Combined Noise 0.015	20.7864	-5.20%	0.5912	-5.93%	0.5387	4.84%
Combined Noise 0.02	20.9120	-4.62%	0.5883	-6.39%	0.5492	6.89%
Combined Noise 0.025	20.2827	-7.49%	0.5691	-9.44%	0.5970	16.17%
Combined Noise 0.03	19.8151	-9.63%	0.5578	-11.24%	0.6332	23.23%
Combined Noise 0.035	19.3456	-11.77%	0.5444	-13.36%	0.6876	33.81%
Combined Noise 0.04	18.5487	-15.40%	0.5215	-17.02%	0.7179	39.71%
Combined Noise 0.045	17.4119	-20.59%	0.4887	-22.23%	0.7257	41.23%
Combined Noise 0.05	14.9712	-31.72%	0.4615	-26.56%	0.7574	47.39%
Combined Noise 0.0525	14.0254	-36.03%	0.4645	-26.08%	0.7984	55.37%
Combined Noise 0.055	13.7486	-37.30%	0.4680	-25.53%	0.8160	58.80%
Combined Noise 0.0575	13.6754	-37.63%	0.4727	-24.78%	0.8327	62.06%
Combined Noise 0.06	13.4136	-38.82%	0.4688	-25.39%	0.8454	64.52%

Table B.15: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Color noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.9259	-	0.6284	-	0.5139	-
PnS Blue Channel 5	21.6391	-1.31%	0.6235	-0.79%	0.5230	1.78%
PnS Blue Channel 10	21.3055	-2.83%	0.6182	-1.63%	0.5587	8.72%
PnS Blue Channel 15	20.9480	-4.46%	0.6095	-3.01%	0.5835	13.56%
PnS Blue Channel 20	20.2114	-7.82%	0.6030	-4.04%	0.6073	18.18%
PnS Blue Channel 25	20.0941	-8.35%	0.5991	-4.67%	0.6137	19.44%
PnS Blue Channel 30	19.5743	-10.73%	0.5962	-5.12%	0.6324	23.07%
PnS Blue Channel 35	19.0775	-12.99%	0.5942	-5.45%	0.6391	24.37%
PnS Blue Channel 40	18.6780	-14.81%	0.5915	-5.87%	0.6490	26.29%
PnS Green Channel 5	21.9148	-0.05%	0.6071	-3.40%	0.6163	19.93%
PnS Green Channel 10	21.5551	-1.69%	0.5957	-5.20%	0.6686	30.12%
PnS Green Channel 15	21.0240	-4.11%	0.5876	-6.50%	0.7056	37.31%
PnS Green Channel 20	20.0890	-8.38%	0.5811	-7.54%	0.7455	45.07%
PnS Green Channel 25	19.8666	-9.39%	0.5766	-8.25%	0.7588	47.67%
PnS Green Channel 30	19.4823	-11.14%	0.5701	-9.28%	0.7840	52.58%
PnS Green Channel 35	18.8643	-13.96%	0.5670	-9.78%	0.8045	56.57%
PnS Green Channel 40	18.3146	-16.47%	0.5619	-10.58%	0.8256	60.66%
Image Noise 16	21.7129	-0.97%	0.6210	-1.18%	0.5376	4.63%
Image Noise 32	21.5966	-1.50%	0.6068	-3.44%	0.5848	13.81%
Image Noise 48	21.6617	-1.20%	0.5963	-5.11%	0.6164	19.95%
Image Noise 64	21.4947	-1.97%	0.5869	-6.61%	0.6414	24.83%
Image Noise 80	20.2888	-7.47%	0.5715	-9.06%	0.6716	30.69%
Image Noise 96	19.6460	-10.40%	0.5612	-10.70%	0.7014	36.49%
Image Noise 112	19.1613	-12.61%	0.5550	-11.68%	0.7239	40.89%
Image Noise 128	18.0557	-17.65%	0.5444	-13.37%	0.7524	46.43%
PnS Red Channel 5	21.6511	-1.25%	0.6144	-2.22%	0.5570	8.41%
PnS Red Channel 10	21.0687	-3.91%	0.6063	-3.53%	0.5999	16.75%
PnS Red Channel 15	20.9676	-4.37%	0.6027	-4.10%	0.6389	24.33%
PnS Red Channel 20	20.5826	-6.13%	0.5967	-5.05%	0.6615	28.74%
PnS Red Channel 25	19.9980	-8.79%	0.5921	-5.78%	0.6864	33.57%
PnS Red Channel 30	19.2664	-12.13%	0.5864	-6.68%	0.7157	39.28%
PnS Red Channel 35	18.6915	-14.75%	0.5830	-7.23%	0.7245	41.00%
PnS Red Channel 40	18.0897	-17.50%	0.5797	-7.75%	0.7379	43.61%

Table B.16: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Lightning degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.9259	-	0.6284	-	0.5139	-
Gamma Correction 5	21.6559	-1.23%	0.6241	-0.69%	0.5162	0.45%
Gamma Correction 10	21.7245	-0.92%	0.6242	-0.67%	0.5226	1.70%
Gamma Correction 15	21.8360	-0.41%	0.6250	-0.54%	0.5221	1.61%
Gamma Correction 20	21.7411	-0.84%	0.6243	-0.65%	0.5223	1.64%
Gamma Correction 25	21.7998	-0.57%	0.6209	-1.20%	0.5288	2.91%
Gamma Correction 30	21.9829	0.26%	0.6199	-1.35%	0.5392	4.94%
Gamma Correction 35	21.9412	0.07%	0.6226	-0.92%	0.5472	6.48%
Gamma Correction 40	21.5989	-1.49%	0.6127	-2.50%	0.5469	6.42%
Saturation Change 0.1	21.7256	-0.91%	0.6264	-0.32%	0.5143	0.08%
Saturation Change 0.2	21.3849	-2.47%	0.6220	-1.03%	0.5183	0.86%
Saturation Change 0.3	21.9973	0.33%	0.6244	-0.64%	0.5143	0.10%
Saturation Change 0.4	21.2073	-3.28%	0.6256	-0.45%	0.5231	1.80%
Saturation Change 0.5	21.3629	-2.57%	0.6247	-0.60%	0.5327	3.67%
Saturation Change 0.6	21.4166	-2.32%	0.6238	-0.74%	0.5248	2.12%
Saturation Change 0.7	21.0048	-4.20%	0.6231	-0.84%	0.5338	3.89%
Saturation Change 0.8	21.6024	-1.48%	0.6225	-0.94%	0.5256	2.29%
Saturation Change 0.9	21.6558	-1.23%	0.6272	-0.20%	0.5268	2.53%
Saturation Change 1.0	21.8891	-0.17%	0.6311	0.42%	0.5174	0.68%

Table B.17: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Reductions degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.9259	-	0.6284	-	0.5139	-
Reduced Image Set 2	21.6419	-1.30%	0.6109	-2.79%	0.4823	-6.14%
Reduced Image Set 3	21.5450	-1.74%	0.6173	-1.76%	0.4722	-8.10%
Reduced Image Set 4	21.7238	-0.92%	0.6239	-0.72%	0.4782	-6.93%
Reduced Image Set 5	15.8181	-27.86%	0.4972	-20.89%	0.7049	37.17%
Reduced Image Set 6	20.5310	-6.36%	0.5769	-8.20%	0.4936	-3.93%
Reduced Image Set 7	12.4749	-43.10%	0.4465	-28.95%	0.8642	68.18%
Reduced Image Set 8	11.9481	-45.51%	0.4308	-31.44%	0.8715	69.60%
Height Reduction 10	12.7865	-41.68%	0.4444	-29.28%	0.8291	61.36%
Height Reduction 20	14.1284	-35.56%	0.4533	-27.87%	0.7743	50.69%
Height Reduction 30	17.0989	-22.02%	0.5036	-19.86%	0.6760	31.56%
Height Reduction 40	18.6738	-14.83%	0.5379	-14.40%	0.5861	14.05%
Height Reduction 50	19.0820	-12.97%	0.5287	-15.87%	0.5752	11.94%
Height Reduction 60	19.7434	-9.95%	0.5590	-11.04%	0.5170	0.62%
Height Reduction 70	17.2562	-21.30%	0.5374	-14.48%	0.6054	17.81%
Height Reduction 80	19.8750	-9.35%	0.5546	-11.75%	0.5099	-0.78%
Height Reduction 90	19.3854	-11.59%	0.5499	-12.50%	0.5309	3.32%
Height Reduction 100	19.7438	-9.95%	0.5506	-12.38%	0.5302	3.18%

Table B.18: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.0421	-	0.8885	-	0.1659	-
Orientation Noise 0.005	13.5361	-35.67%	0.6549	-26.29%	0.4341	161.70%
Orientation Noise 0.01	12.3930	-41.10%	0.6262	-29.52%	0.4689	182.67%
Orientation Noise 0.015	11.8699	-43.59%	0.6110	-31.23%	0.4993	201.00%
Orientation Noise 0.02	11.6449	-44.66%	0.6153	-30.74%	0.4937	197.66%
Orientation Noise 0.025	11.3449	-46.08%	0.6046	-31.95%	0.5092	206.99%
Orientation Noise 0.03	11.1556	-46.98%	0.6074	-31.63%	0.5108	207.92%
Orientation Noise 0.035	11.0000	-47.72%	0.6086	-31.50%	0.5097	207.26%
Orientation Noise 0.04	10.8487	-48.44%	0.5992	-32.56%	0.5170	211.68%
Orientation Noise 0.045	10.8727	-48.33%	0.5868	-33.96%	0.5438	227.84%
Orientation Noise 0.05	10.6834	-49.23%	0.5762	-35.14%	0.5495	231.30%
Orientation Noise 0.0525	10.6027	-49.61%	0.5885	-33.77%	0.5351	222.58%
Orientation Noise 0.055	10.6866	-49.21%	0.5870	-33.93%	0.5467	229.61%
Orientation Noise 0.0575	10.6858	-49.22%	0.5822	-34.47%	0.5473	229.96%
Orientation Noise 0.06	10.5549	-49.84%	0.5746	-35.32%	0.5559	235.13%
Combined Noise 0.005	13.4331	-36.16%	0.6553	-26.25%	0.4374	163.68%
Combined Noise 0.01	12.1384	-42.31%	0.6209	-30.12%	0.4858	192.87%
Combined Noise 0.015	11.6979	-44.41%	0.6148	-30.80%	0.5015	202.32%
Combined Noise 0.02	11.3971	-45.84%	0.6156	-30.71%	0.4985	200.55%
Combined Noise 0.025	11.2061	-46.74%	0.6158	-30.69%	0.4977	200.03%
Combined Noise 0.03	11.0667	-47.41%	0.6234	-29.84%	0.4941	197.87%
Combined Noise 0.035	10.8877	-48.26%	0.6026	-32.18%	0.5182	212.39%
Combined Noise 0.04	10.7896	-48.72%	0.6070	-31.68%	0.5117	208.47%
Combined Noise 0.045	10.8123	-48.62%	0.6000	-32.47%	0.5254	216.72%
Combined Noise 0.05	10.6323	-49.47%	0.5865	-33.99%	0.5361	223.23%
Combined Noise 0.0525	10.7022	-49.14%	0.5857	-34.08%	0.5448	228.45%
Combined Noise 0.055	10.5581	-49.82%	0.5714	-35.69%	0.5516	232.54%
Combined Noise 0.0575	10.5126	-50.04%	0.5867	-33.97%	0.5400	225.56%
Combined Noise 0.06	10.5354	-49.93%	0.5689	-35.97%	0.5669	241.76%
Positional Noise 0.005	17.0833	-18.81%	0.7839	-11.77%	0.3047	83.68%
Positional Noise 0.01	14.9164	-29.11%	0.6968	-21.57%	0.3955	138.45%
Positional Noise 0.015	14.2935	-32.07%	0.6785	-23.64%	0.4126	148.76%
Positional Noise 0.02	13.4543	-36.06%	0.6527	-26.54%	0.4475	169.78%
Positional Noise 0.025	12.9854	-38.29%	0.6393	-28.05%	0.4603	177.52%
Positional Noise 0.03	12.8847	-38.77%	0.6407	-27.89%	0.4684	182.38%
Positional Noise 0.035	12.4585	-40.79%	0.6228	-29.90%	0.4854	192.61%
Positional Noise 0.04	12.7125	-39.59%	0.6354	-28.49%	0.4739	185.70%
Positional Noise 0.045	12.2646	-41.71%	0.6250	-29.65%	0.4872	193.71%
Positional Noise 0.05	12.1725	-42.15%	0.6250	-29.66%	0.4908	195.87%
Positional Noise 0.0525	12.0682	-42.65%	0.6200	-30.21%	0.4958	198.93%
Positional Noise 0.055	12.2669	-41.70%	0.6282	-29.30%	0.4872	193.73%
Positional Noise 0.0575	12.2628	-41.72%	0.6217	-30.02%	0.4956	198.77%
Positional Noise 0.06	11.8806	-43.54%	0.6066	-31.73%	0.5114	208.29%

Table B.19: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Color noise degradations. Instant-NGP model is used. Camera optimizer is disabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.0421	-	0.8885	-	0.1659	-
PnS Blue Channel 5	21.4413	1.90%	0.8783	-1.14%	0.1650	-0.55%
PnS Blue Channel 10	20.9448	-0.46%	0.8590	-3.32%	0.1790	7.92%
PnS Blue Channel 15	20.3217	-3.42%	0.8355	-5.96%	0.2104	26.84%
PnS Blue Channel 20	20.6835	-1.70%	0.8471	-4.66%	0.1845	11.20%
PnS Blue Channel 25	20.3108	-3.48%	0.8439	-5.02%	0.1889	13.91%
PnS Blue Channel 30	19.6448	-6.64%	0.8253	-7.11%	0.2174	31.05%
PnS Blue Channel 35	18.6446	-11.39%	0.7931	-10.73%	0.2722	64.12%
PnS Blue Channel 40	18.9548	-9.92%	0.8144	-8.34%	0.2339	41.00%
PnS Green Channel 5	20.4242	-2.94%	0.8579	-3.44%	0.2149	29.53%
PnS Green Channel 10	20.5204	-2.48%	0.8619	-2.99%	0.1995	20.27%
PnS Green Channel 15	19.8477	-5.68%	0.8398	-5.48%	0.2417	45.70%
PnS Green Channel 20	20.0417	-4.75%	0.8451	-4.88%	0.2388	43.95%
PnS Green Channel 25	20.0922	-4.51%	0.8423	-5.20%	0.2328	40.32%
PnS Green Channel 30	19.2332	-8.60%	0.8286	-6.74%	0.2617	57.74%
PnS Green Channel 35	18.9370	-10.00%	0.8175	-7.98%	0.2968	78.95%
PnS Green Channel 40	18.2046	-13.49%	0.8014	-9.80%	0.3237	95.16%
Image Noise 16	20.6657	-1.79%	0.8910	0.29%	0.1522	-8.27%
Image Noise 32	18.2916	-13.07%	0.8258	-7.06%	0.2726	64.32%
Image Noise 48	15.9925	-24.00%	0.7253	-18.36%	0.4441	167.72%
Image Noise 64	16.4992	-21.59%	0.6703	-24.56%	0.4723	184.73%
Image Noise 80	16.4160	-21.98%	0.6374	-28.25%	0.4812	190.12%
Image Noise 96	14.6755	-30.26%	0.5468	-38.46%	0.5741	246.13%
Image Noise 112	14.5595	-30.81%	0.5362	-39.65%	0.5599	237.55%
Image Noise 128	14.3853	-31.64%	0.5538	-37.67%	0.5531	233.47%
PnS Red Channel 5	20.3961	-3.07%	0.8630	-2.87%	0.2014	21.44%
PnS Red Channel 10	20.8522	-0.90%	0.8682	-2.29%	0.1783	7.48%
PnS Red Channel 15	19.2486	-8.52%	0.8294	-6.65%	0.2363	42.48%
PnS Red Channel 20	19.1994	-8.76%	0.8269	-6.94%	0.2508	51.19%
PnS Red Channel 25	18.8702	-10.32%	0.8147	-8.30%	0.2592	56.27%
PnS Red Channel 30	17.5304	-16.69%	0.7837	-11.80%	0.3107	87.33%
PnS Red Channel 35	16.4765	-21.70%	0.7620	-14.24%	0.3410	105.56%
PnS Red Channel 40	18.0103	-14.41%	0.8055	-9.34%	0.2868	72.88%

Table B.20: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Lightning degradations. Instant-NGP model is used. Camera optimizer is disabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.0421	-	0.8885	-	0.1659	-
Gamma Correction 5	20.8107	-1.10%	0.8827	-0.66%	0.1781	7.34%
Gamma Correction 10	19.9454	-5.21%	0.8625	-2.92%	0.2068	24.70%
Gamma Correction 15	19.9285	-5.29%	0.8636	-2.80%	0.2130	28.41%
Gamma Correction 20	20.2157	-3.93%	0.8662	-2.51%	0.2033	22.53%
Gamma Correction 25	20.4601	-2.77%	0.8692	-2.17%	0.1933	16.55%
Gamma Correction 30	20.3151	-3.45%	0.8839	-0.52%	0.1724	3.96%
Gamma Correction 35	19.0518	-9.46%	0.8502	-4.31%	0.2251	35.70%
Gamma Correction 40	18.3303	-12.89%	0.8361	-5.90%	0.2152	29.75%
Saturation Change 0.1	21.0999	0.27%	0.8881	-0.04%	0.1694	2.13%
Saturation Change 0.2	20.8925	-0.71%	0.8841	-0.50%	0.1780	7.29%
Saturation Change 0.3	21.5140	2.24%	0.8968	0.94%	0.1500	-9.57%
Saturation Change 0.4	20.7447	-1.41%	0.8954	0.78%	0.1406	-15.21%
Saturation Change 0.5	20.8768	-0.79%	0.8901	0.19%	0.1485	-10.46%
Saturation Change 0.6	20.8998	-0.68%	0.8926	0.46%	0.1453	-12.42%
Saturation Change 0.7	19.8907	-5.47%	0.8786	-1.11%	0.1629	-1.78%
Saturation Change 0.8	20.9154	-0.60%	0.8957	0.81%	0.1335	-19.50%
Saturation Change 0.9	20.1550	-4.22%	0.8859	-0.29%	0.1533	-7.56%
Saturation Change 1.0	20.5214	-2.47%	0.8827	-0.65%	0.1706	2.88%

Table B.21: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Reductions degradations. Instant-NGP model is used. Camera optimizer is disabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.0421	-	0.8885	-	0.1659	-
Reduced Image Set 2	11.3626	-46.00%	0.5980	-32.70%	0.5342	222.07%
Reduced Image Set 3	10.4488	-50.34%	0.5631	-36.62%	0.5623	238.99%
Reduced Image Set 4	10.0704	-52.14%	0.5609	-36.87%	0.5876	254.22%
Reduced Image Set 5	9.5654	-54.54%	0.5336	-39.94%	0.6116	268.72%
Reduced Image Set 6	9.8111	-53.37%	0.5393	-39.30%	0.6335	281.89%
Reduced Image Set 7	9.5453	-54.64%	0.5352	-39.76%	0.6360	283.41%
Reduced Image Set 8	9.6152	-54.31%	0.4978	-43.97%	0.6871	314.24%
Saturation Change 0.1	21.0999	0.27%	0.8881	-0.04%	0.1694	2.13%
Saturation Change 0.2	20.8925	-0.71%	0.8841	-0.50%	0.1780	7.29%
Saturation Change 0.3	21.5140	2.24%	0.8968	0.94%	0.1500	-9.57%
Saturation Change 0.4	20.7447	-1.41%	0.8954	0.78%	0.1406	-15.21%
Saturation Change 0.5	20.8768	-0.79%	0.8901	0.19%	0.1485	-10.46%
Saturation Change 0.6	20.8998	-0.68%	0.8926	0.46%	0.1453	-12.42%
Saturation Change 0.7	19.8907	-5.47%	0.8786	-1.11%	0.1629	-1.78%
Saturation Change 0.8	20.9154	-0.60%	0.8957	0.81%	0.1335	-19.50%
Saturation Change 0.9	20.1550	-4.22%	0.8859	-0.29%	0.1533	-7.56%
Saturation Change 1.0	20.5214	-2.47%	0.8827	-0.65%	0.1706	2.88%

Table B.22: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	20.3826	-	0.8757	-	0.1957	-
Orientation Noise 0.005	13.5559	-33.49%	0.6561	-25.08%	0.4341	121.85%
Orientation Noise 0.01	12.4071	-39.13%	0.6277	-28.32%	0.4740	142.21%
Orientation Noise 0.015	11.9876	-41.19%	0.6190	-29.31%	0.4910	150.92%
Orientation Noise 0.02	11.6277	-42.95%	0.6205	-29.15%	0.4890	149.87%
Orientation Noise 0.025	11.4863	-43.65%	0.6159	-29.67%	0.5001	155.58%
Orientation Noise 0.03	11.2006	-45.05%	0.6184	-29.38%	0.5024	156.76%
Orientation Noise 0.035	10.9420	-46.32%	0.6093	-30.42%	0.5051	158.13%
Orientation Noise 0.04	10.8327	-46.85%	0.6059	-30.81%	0.5161	163.72%
Orientation Noise 0.045	10.9626	-46.22%	0.6056	-30.84%	0.5196	165.53%
Orientation Noise 0.05	10.5841	-48.07%	0.5918	-32.42%	0.5324	172.05%
Orientation Noise 0.0525	10.6662	-47.67%	0.5831	-33.42%	0.5450	178.50%
Orientation Noise 0.055	10.5874	-48.06%	0.5913	-32.48%	0.5425	177.24%
Orientation Noise 0.0575	10.7270	-47.37%	0.6037	-31.07%	0.5248	168.17%
Orientation Noise 0.06	10.5985	-48.00%	0.5739	-34.47%	0.5589	185.63%
Combined Noise 0.005	13.3453	-34.53%	0.6461	-26.22%	0.4474	128.63%
Combined Noise 0.01	12.1532	-40.37%	0.6249	-28.64%	0.4775	144.03%
Combined Noise 0.015	11.6855	-42.67%	0.6206	-29.13%	0.4946	152.77%
Combined Noise 0.02	11.4999	-43.58%	0.6222	-28.95%	0.4941	152.49%
Combined Noise 0.025	11.0680	-45.70%	0.6090	-30.46%	0.5050	158.05%
Combined Noise 0.03	10.9690	-46.18%	0.6004	-31.44%	0.5159	163.62%
Combined Noise 0.035	11.0118	-45.97%	0.6119	-30.13%	0.5072	159.21%
Combined Noise 0.04	10.6881	-47.56%	0.6007	-31.41%	0.5203	165.90%
Combined Noise 0.045	10.8446	-46.79%	0.5888	-32.77%	0.5421	177.04%
Combined Noise 0.05	10.5893	-48.05%	0.5864	-33.04%	0.5380	174.93%
Combined Noise 0.0525	10.6258	-47.87%	0.5852	-33.18%	0.5388	175.36%
Combined Noise 0.055	10.6575	-47.71%	0.5912	-32.50%	0.5403	176.10%
Combined Noise 0.0575	10.4853	-48.56%	0.5703	-34.88%	0.5579	185.11%
Combined Noise 0.06	10.5626	-48.18%	0.5764	-34.18%	0.5520	182.09%
Positional Noise 0.005	18.0702	-11.34%	0.8123	-7.25%	0.2684	37.14%
Positional Noise 0.01	14.9109	-26.84%	0.7013	-19.92%	0.3939	101.31%
Positional Noise 0.015	13.9091	-31.76%	0.6685	-23.67%	0.4269	118.13%
Positional Noise 0.02	13.3249	-34.63%	0.6568	-25.00%	0.4432	126.47%
Positional Noise 0.025	13.0522	-35.96%	0.6464	-26.19%	0.4542	132.12%
Positional Noise 0.03	12.7116	-37.63%	0.6349	-27.50%	0.4797	145.14%
Positional Noise 0.035	12.5369	-38.49%	0.6243	-28.71%	0.4919	151.39%
Positional Noise 0.04	12.5268	-38.54%	0.6270	-28.41%	0.4825	146.54%
Positional Noise 0.045	12.0584	-40.84%	0.6136	-29.93%	0.5000	155.52%
Positional Noise 0.05	12.1934	-40.18%	0.6256	-28.56%	0.4879	149.31%
Positional Noise 0.0525	11.9937	-41.16%	0.6153	-29.73%	0.5015	156.30%
Positional Noise 0.055	12.2132	-40.08%	0.6238	-28.77%	0.4909	150.87%
Positional Noise 0.0575	12.0992	-40.64%	0.6114	-30.19%	0.5045	157.81%
Positional Noise 0.06	11.7707	-42.25%	0.6081	-30.56%	0.5117	161.48%

Table B.23: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Color noise degradations. Instant-NGP model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	20.3826	-	0.8757	-	0.1957	-
PnS Blue Channel 5	21.5208	5.58%	0.8780	0.26%	0.1622	-17.13%
PnS Blue Channel 10	21.6204	6.07%	0.8662	-1.10%	0.1657	-15.34%
PnS Blue Channel 15	19.8029	-2.84%	0.8283	-5.41%	0.2207	12.80%
PnS Blue Channel 20	20.3980	0.08%	0.8438	-3.65%	0.1948	-0.48%
PnS Blue Channel 25	20.7128	1.62%	0.8507	-2.85%	0.1694	-13.43%
PnS Blue Channel 30	20.1913	-0.94%	0.8352	-4.63%	0.1985	1.42%
PnS Blue Channel 35	19.6868	-3.41%	0.8250	-5.79%	0.2214	13.16%
PnS Blue Channel 40	18.6312	-8.59%	0.8035	-8.25%	0.2562	30.91%
PnS Green Channel 5	21.2201	4.11%	0.8811	0.61%	0.1755	-10.34%
PnS Green Channel 10	20.7179	1.64%	0.8610	-1.68%	0.2127	8.69%
PnS Green Channel 15	19.9196	-2.27%	0.8389	-4.21%	0.2453	25.33%
PnS Green Channel 20	20.0967	-1.40%	0.8460	-3.39%	0.2284	16.73%
PnS Green Channel 25	19.7327	-3.19%	0.8369	-4.43%	0.2469	26.17%
PnS Green Channel 30	18.8285	-7.62%	0.8166	-6.75%	0.2895	47.93%
PnS Green Channel 35	18.6643	-8.43%	0.8174	-6.66%	0.2848	45.52%
PnS Green Channel 40	18.0206	-11.59%	0.7960	-9.11%	0.3214	64.24%
Image Noise 16	20.4594	0.38%	0.8843	0.98%	0.1713	-12.46%
Image Noise 32	18.4918	-9.28%	0.8277	-5.49%	0.2792	42.65%
Image Noise 48	16.4202	-19.44%	0.7297	-16.67%	0.4361	122.88%
Image Noise 64	16.7760	-17.69%	0.6884	-21.39%	0.4622	136.22%
Image Noise 80	16.3659	-19.71%	0.6365	-27.32%	0.4822	146.43%
Image Noise 96	14.4915	-28.90%	0.5509	-37.10%	0.5752	193.92%
Image Noise 112	14.7958	-27.41%	0.5714	-34.75%	0.5376	174.73%
Image Noise 128	14.2520	-30.08%	0.5499	-37.21%	0.5614	186.89%
PnS Red Channel 5	20.4067	0.12%	0.8573	-2.10%	0.2102	7.42%
PnS Red Channel 10	20.8420	2.25%	0.8634	-1.41%	0.1936	-1.08%
PnS Red Channel 15	19.8477	-2.62%	0.8396	-4.13%	0.2231	14.03%
PnS Red Channel 20	19.6239	-3.72%	0.8339	-4.77%	0.2392	22.25%
PnS Red Channel 25	18.4379	-9.54%	0.8035	-8.25%	0.2768	41.43%
PnS Red Channel 30	17.0676	-16.26%	0.7713	-11.92%	0.3311	69.19%
PnS Red Channel 35	16.2091	-20.48%	0.7498	-14.38%	0.3591	83.51%
PnS Red Channel 40	17.8886	-12.24%	0.8133	-7.13%	0.2652	35.51%

Table B.24: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Lightning degradations. Instant-NGP model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	20.3826	-	0.8757	-	0.1957	-
Gamma Correction 5	20.5309	0.73%	0.8734	-0.27%	0.1986	1.48%
Gamma Correction 10	20.7522	1.81%	0.8839	0.93%	0.1745	-10.84%
Gamma Correction 15	20.4092	0.13%	0.8765	0.09%	0.1865	-4.69%
Gamma Correction 20	18.8861	-7.34%	0.8440	-3.62%	0.2370	21.11%
Gamma Correction 25	20.2292	-0.75%	0.8698	-0.67%	0.1944	-0.63%
Gamma Correction 30	20.5515	0.83%	0.8848	1.03%	0.1738	-11.17%
Gamma Correction 35	19.8500	-2.61%	0.8789	0.36%	0.1715	-12.35%
Gamma Correction 40	19.6300	-3.69%	0.8625	-1.51%	0.1950	-0.34%
Saturation Change 0.1	20.8866	2.47%	0.8881	1.41%	0.1669	-14.72%
Saturation Change 0.2	20.2081	-0.86%	0.8772	0.17%	0.1894	-3.24%
Saturation Change 0.3	20.5962	1.05%	0.8859	1.16%	0.1643	-16.06%
Saturation Change 0.4	20.8925	2.50%	0.8935	2.03%	0.1449	-25.97%
Saturation Change 0.5	20.3873	0.02%	0.8815	0.65%	0.1724	-11.91%
Saturation Change 0.6	20.6204	1.17%	0.8865	1.23%	0.1541	-21.23%
Saturation Change 0.7	20.0447	-1.66%	0.8788	0.35%	0.1684	-13.96%
Saturation Change 0.8	20.7277	1.69%	0.8934	2.01%	0.1360	-30.48%
Saturation Change 0.9	20.6346	1.24%	0.8876	1.35%	0.1500	-23.37%
Saturation Change 1.0	20.6433	1.28%	0.8843	0.97%	0.1612	-17.63%

Table B.25: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Lego dataset is used. Reductions degradations. Instant-NGP model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	20.3826	-	0.8757	-	0.1957	-
Reduced Image Set 2	11.4902	-43.63%	0.6100	-30.34%	0.5146	163.00%
Reduced Image Set 3	10.4256	-48.85%	0.5510	-37.08%	0.5794	196.08%
Reduced Image Set 4	10.1202	-50.35%	0.5636	-35.65%	0.5860	199.45%
Reduced Image Set 5	9.5445	-53.17%	0.5391	-38.44%	0.6057	209.54%
Reduced Image Set 6	9.8230	-51.81%	0.5396	-38.39%	0.6365	225.29%
Reduced Image Set 7	9.5996	-52.90%	0.5344	-38.98%	0.6382	226.14%
Reduced Image Set 8	9.6836	-52.49%	0.5112	-41.63%	0.6759	245.41%
Saturation Change 0.1	20.8866	2.47%	0.8881	1.41%	0.1669	-14.72%
Saturation Change 0.2	20.2081	-0.86%	0.8772	0.17%	0.1894	-3.24%
Saturation Change 0.3	20.5962	1.05%	0.8859	1.16%	0.1643	-16.06%
Saturation Change 0.4	20.8925	2.50%	0.8935	2.03%	0.1449	-25.97%
Saturation Change 0.5	20.3873	0.02%	0.8815	0.65%	0.1724	-11.91%
Saturation Change 0.6	20.6204	1.17%	0.8865	1.23%	0.1541	-21.23%
Saturation Change 0.7	20.0447	-1.66%	0.8788	0.35%	0.1684	-13.96%
Saturation Change 0.8	20.7277	1.69%	0.8934	2.01%	0.1360	-30.48%
Saturation Change 0.9	20.6346	1.24%	0.8876	1.35%	0.1500	-23.37%
Saturation Change 1.0	20.6433	1.28%	0.8843	0.97%	0.1612	-17.63%

Table B.26: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.6441	-	0.6442	-	0.4968	-
Orientation Noise 0.005	20.1808	-6.76%	0.5598	-13.10%	0.7253	46.00%
Orientation Noise 0.01	19.4860	-9.97%	0.5425	-15.78%	0.7652	54.03%
Orientation Noise 0.015	18.7070	-13.57%	0.5326	-17.32%	0.7765	56.31%
Orientation Noise 0.02	18.4517	-14.75%	0.5219	-18.98%	0.7825	57.50%
Orientation Noise 0.025	18.1558	-16.12%	0.5134	-20.29%	0.7866	58.33%
Orientation Noise 0.03	17.7150	-18.15%	0.5076	-21.20%	0.7924	59.49%
Orientation Noise 0.035	17.1806	-20.62%	0.4908	-23.80%	0.7919	59.40%
Orientation Noise 0.04	17.0493	-21.23%	0.4913	-23.73%	0.7970	60.42%
Orientation Noise 0.045	16.5414	-23.58%	0.4852	-24.68%	0.8025	61.53%
Orientation Noise 0.05	16.2900	-24.74%	0.4802	-25.45%	0.8071	62.45%
Orientation Noise 0.0525	16.1762	-25.26%	0.4778	-25.82%	0.8152	64.10%
Orientation Noise 0.055	15.9619	-26.25%	0.4774	-25.88%	0.8107	63.18%
Orientation Noise 0.0575	15.7604	-27.18%	0.4784	-25.73%	0.8242	65.90%
Orientation Noise 0.06	15.5567	-28.13%	0.4762	-26.07%	0.8321	67.49%
Combined Noise 0.005	19.7411	-8.79%	0.5542	-13.96%	0.7447	49.90%
Combined Noise 0.01	19.2099	-11.25%	0.5389	-16.35%	0.7825	57.51%
Combined Noise 0.015	18.6012	-14.06%	0.5257	-18.40%	0.7747	55.94%
Combined Noise 0.02	18.2288	-15.78%	0.5123	-20.46%	0.7784	56.68%
Combined Noise 0.025	17.6029	-18.67%	0.5034	-21.86%	0.7896	58.93%
Combined Noise 0.03	17.3719	-19.74%	0.4972	-22.82%	0.7871	58.43%
Combined Noise 0.035	16.4160	-24.15%	0.4814	-25.27%	0.8084	62.72%
Combined Noise 0.04	16.4030	-24.21%	0.4812	-25.30%	0.8074	62.51%
Combined Noise 0.045	16.0332	-25.92%	0.4774	-25.89%	0.8150	64.06%
Combined Noise 0.05	15.3130	-29.25%	0.4786	-25.70%	0.8429	69.66%
Combined Noise 0.0525	15.3868	-28.91%	0.4794	-25.57%	0.8407	69.21%
Combined Noise 0.055	14.7207	-31.99%	0.4800	-25.48%	0.8737	75.86%
Combined Noise 0.0575	14.7249	-31.97%	0.4779	-25.81%	0.8729	75.69%
Combined Noise 0.06	13.6104	-37.12%	0.4666	-27.56%	0.9381	88.82%
Positional Noise 0.005	20.8811	-3.52%	0.5847	-9.23%	0.6616	33.18%
Positional Noise 0.01	20.1028	-7.12%	0.5633	-12.55%	0.7121	43.34%
Positional Noise 0.015	19.7782	-8.62%	0.5531	-14.14%	0.7328	47.51%
Positional Noise 0.02	19.5284	-9.78%	0.5466	-15.14%	0.7524	51.45%
Positional Noise 0.025	19.4028	-10.36%	0.5425	-15.78%	0.7549	51.95%
Positional Noise 0.03	18.5724	-14.19%	0.5308	-17.61%	0.7566	52.29%
Positional Noise 0.035	18.9719	-12.35%	0.5342	-17.07%	0.7621	53.40%
Positional Noise 0.04	18.4874	-14.58%	0.5284	-17.97%	0.7688	54.76%
Positional Noise 0.045	18.3621	-15.16%	0.5258	-18.38%	0.7764	56.28%
Positional Noise 0.05	18.1059	-16.35%	0.5232	-18.78%	0.7735	55.69%
Positional Noise 0.0525	17.9893	-16.89%	0.5197	-19.32%	0.7752	56.03%
Positional Noise 0.055	17.9928	-16.87%	0.5198	-19.31%	0.7768	56.37%
Positional Noise 0.0575	18.0295	-16.70%	0.5189	-19.44%	0.7787	56.75%
Positional Noise 0.06	17.8762	-17.41%	0.5160	-19.90%	0.7756	56.12%

Table B.27: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Color noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.6441	-	0.6442	-	0.4968	-
PnS Blue Channel 5	21.4807	-0.75%	0.6349	-1.44%	0.5032	1.28%
PnS Blue Channel 10	21.1845	-2.12%	0.6318	-1.93%	0.5302	6.72%
PnS Blue Channel 15	20.3496	-5.98%	0.6142	-4.65%	0.5729	15.32%
PnS Blue Channel 20	20.1691	-6.81%	0.6113	-5.11%	0.5811	16.96%
PnS Blue Channel 25	19.7710	-8.65%	0.6068	-5.80%	0.6069	22.15%
PnS Blue Channel 30	19.4415	-10.18%	0.6055	-6.00%	0.6099	22.76%
PnS Blue Channel 35	19.2028	-11.28%	0.5987	-7.06%	0.6277	26.34%
PnS Blue Channel 40	18.7562	-13.34%	0.5972	-7.29%	0.6277	26.35%
PnS Green Channel 5	21.2183	-1.97%	0.6066	-5.83%	0.5865	18.06%
PnS Green Channel 10	21.1760	-2.16%	0.5940	-7.79%	0.6413	29.08%
PnS Green Channel 15	20.4336	-5.59%	0.5841	-9.32%	0.6890	38.69%
PnS Green Channel 20	20.1245	-7.02%	0.5774	-10.37%	0.7199	44.91%
PnS Green Channel 25	19.4852	-9.97%	0.5704	-11.45%	0.7486	50.69%
PnS Green Channel 30	19.0262	-12.09%	0.5659	-12.15%	0.7610	53.18%
PnS Green Channel 35	18.7749	-13.26%	0.5626	-12.67%	0.7922	59.47%
PnS Green Channel 40	18.3037	-15.43%	0.5584	-13.31%	0.8044	61.91%
Image Noise 16	21.6096	-0.16%	0.6313	-2.00%	0.5187	4.40%
Image Noise 32	21.2883	-1.64%	0.6100	-5.30%	0.5698	14.70%
Image Noise 48	21.3284	-1.46%	0.6005	-6.78%	0.5822	17.19%
Image Noise 64	20.7396	-4.18%	0.5847	-9.24%	0.6307	26.96%
Image Noise 80	19.9930	-7.63%	0.5714	-11.29%	0.6428	29.38%
Image Noise 96	19.3059	-10.80%	0.5612	-12.87%	0.6749	35.85%
Image Noise 112	18.6794	-13.70%	0.5483	-14.88%	0.7090	42.70%
Image Noise 128	17.7991	-17.76%	0.5398	-16.20%	0.7363	48.21%
PnS Red Channel 5	21.0461	-2.76%	0.6275	-2.59%	0.5302	6.72%
PnS Red Channel 10	21.0669	-2.67%	0.6158	-4.40%	0.5666	14.06%
PnS Red Channel 15	20.4525	-5.51%	0.6011	-6.68%	0.6185	24.49%
PnS Red Channel 20	20.0787	-7.23%	0.5953	-7.59%	0.6332	27.45%
PnS Red Channel 25	19.5380	-9.73%	0.5929	-7.96%	0.6575	32.34%
PnS Red Channel 30	19.1957	-11.31%	0.5882	-8.69%	0.6851	37.90%
PnS Red Channel 35	18.5244	-14.41%	0.5837	-9.39%	0.6955	40.00%
PnS Red Channel 40	17.9064	-17.27%	0.5794	-10.06%	0.7218	45.29%

Table B.28: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Lightning degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.6441	-	0.6442	-	0.4968	-
Gamma Correction 5	21.3195	-1.50%	0.6424	-0.28%	0.4979	0.22%
Gamma Correction 10	20.7701	-4.04%	0.6312	-2.01%	0.5168	4.02%
Gamma Correction 15	21.5434	-0.46%	0.6358	-1.29%	0.5065	1.95%
Gamma Correction 20	21.7970	0.71%	0.6318	-1.92%	0.5135	3.35%
Gamma Correction 25	21.0898	-2.56%	0.6321	-1.87%	0.5031	1.27%
Gamma Correction 30	20.4786	-5.38%	0.6275	-2.58%	0.5105	2.76%
Gamma Correction 35	21.3096	-1.55%	0.6253	-2.94%	0.5176	4.19%
Gamma Correction 40	21.1637	-2.22%	0.6206	-3.66%	0.5308	6.84%
Saturation Change 0.1	21.8179	0.80%	0.6543	1.57%	0.4738	-4.62%
Saturation Change 0.2	21.7011	0.26%	0.6441	-0.02%	0.4933	-0.71%
Saturation Change 0.3	21.7549	0.51%	0.6533	1.42%	0.4761	-4.16%
Saturation Change 0.4	21.2867	-1.65%	0.6428	-0.22%	0.4980	0.25%
Saturation Change 0.5	21.6318	-0.06%	0.6406	-0.56%	0.5027	1.18%
Saturation Change 0.6	21.4881	-0.72%	0.6428	-0.21%	0.4978	0.19%
Saturation Change 0.7	21.2451	-1.84%	0.6408	-0.52%	0.5156	3.78%
Saturation Change 0.8	21.2673	-1.74%	0.6418	-0.37%	0.5074	2.13%
Saturation Change 0.9	21.3376	-1.42%	0.6409	-0.50%	0.5034	1.33%
Saturation Change 1.0	21.2260	-1.93%	0.6319	-1.90%	0.5209	4.84%

Table B.29: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Reductions degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.6441	-	0.6442	-	0.4968	-
Reduced Image Set 2	21.5448	-0.46%	0.6490	0.75%	0.4894	-1.49%
Reduced Image Set 3	21.3848	-1.20%	0.6334	-1.67%	0.5066	1.97%
Reduced Image Set 4	21.0224	-2.87%	0.6205	-3.67%	0.5268	6.03%
Reduced Image Set 5	21.2112	-2.00%	0.6177	-4.11%	0.5274	6.17%
Reduced Image Set 6	21.3014	-1.58%	0.6218	-3.47%	0.5204	4.74%
Reduced Image Set 7	20.7039	-4.34%	0.6014	-6.64%	0.5384	8.38%
Reduced Image Set 8	19.7089	-8.94%	0.5766	-10.48%	0.5788	16.51%
Height Reduction 10	17.4470	-19.39%	0.5142	-20.17%	0.6370	28.21%
Height Reduction 20	17.8679	-17.45%	0.5218	-19.00%	0.6413	29.08%
Height Reduction 30	18.1890	-15.96%	0.5444	-15.49%	0.6431	29.45%
Height Reduction 40	18.6031	-14.05%	0.5602	-13.03%	0.6004	20.85%
Height Reduction 50	18.8742	-12.80%	0.5694	-11.60%	0.5748	15.71%
Height Reduction 60	19.3049	-10.81%	0.5825	-9.57%	0.5630	13.33%
Height Reduction 70	19.5856	-9.51%	0.5858	-9.07%	0.5551	11.73%
Height Reduction 80	18.8283	-13.01%	0.5678	-11.85%	0.5796	16.66%
Height Reduction 90	19.2386	-11.11%	0.5772	-10.40%	0.5684	14.42%
Height Reduction 100	12.8542	-40.61%	0.4420	-31.38%	0.8786	76.84%

Table B.30: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Camera noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.5351	-	0.6412	-	0.4959	-
Orientation Noise 0.005	20.1234	-6.56%	0.5590	-12.82%	0.7253	46.26%
Orientation Noise 0.01	19.5546	-9.20%	0.5429	-15.34%	0.7658	54.43%
Orientation Noise 0.015	18.6929	-13.20%	0.5283	-17.60%	0.7747	56.23%
Orientation Noise 0.02	18.4919	-14.13%	0.5182	-19.18%	0.7762	56.53%
Orientation Noise 0.025	18.2065	-15.46%	0.5151	-19.66%	0.7825	57.79%
Orientation Noise 0.03	17.6156	-18.20%	0.5015	-21.79%	0.7885	59.01%
Orientation Noise 0.035	17.2037	-20.11%	0.4901	-23.57%	0.7894	59.19%
Orientation Noise 0.04	17.1351	-20.43%	0.4915	-23.35%	0.7900	59.31%
Orientation Noise 0.045	16.7849	-22.06%	0.4871	-24.04%	0.8004	61.41%
Orientation Noise 0.05	16.1590	-24.96%	0.4837	-24.56%	0.8135	64.04%
Orientation Noise 0.0525	16.0302	-25.56%	0.4800	-25.14%	0.8184	65.03%
Orientation Noise 0.055	16.2103	-24.73%	0.4815	-24.91%	0.8125	63.85%
Orientation Noise 0.0575	15.9425	-25.97%	0.4782	-25.42%	0.8177	64.89%
Orientation Noise 0.06	15.7483	-26.87%	0.4780	-25.46%	0.8238	66.13%
Combined Noise 0.005	19.8653	-7.75%	0.5536	-13.66%	0.7471	50.65%
Combined Noise 0.01	19.2783	-10.48%	0.5389	-15.95%	0.7791	57.11%
Combined Noise 0.015	18.7427	-12.97%	0.5252	-18.10%	0.7726	55.81%
Combined Noise 0.02	18.1329	-15.80%	0.5161	-19.51%	0.7800	57.29%
Combined Noise 0.025	17.6899	-17.86%	0.5057	-21.13%	0.7871	58.72%
Combined Noise 0.03	17.2488	-19.90%	0.4929	-23.13%	0.7823	57.76%
Combined Noise 0.035	16.9501	-21.29%	0.4888	-23.77%	0.7963	60.58%
Combined Noise 0.04	16.2859	-24.38%	0.4794	-25.24%	0.8081	62.95%
Combined Noise 0.045	16.3010	-24.31%	0.4808	-25.01%	0.8112	63.59%
Combined Noise 0.05	15.2337	-29.26%	0.4785	-25.37%	0.8419	69.77%
Combined Noise 0.0525	15.4487	-28.26%	0.4806	-25.05%	0.8404	69.48%
Combined Noise 0.055	14.7156	-31.67%	0.4768	-25.65%	0.8682	75.09%
Combined Noise 0.0575	13.1943	-38.73%	0.4651	-27.46%	0.9577	93.13%
Combined Noise 0.06	12.9548	-39.84%	0.4666	-27.23%	0.9654	94.69%
Positional Noise 0.005	20.9389	-2.77%	0.5856	-8.68%	0.6617	33.44%
Positional Noise 0.01	20.4925	-4.84%	0.5650	-11.89%	0.7212	45.43%
Positional Noise 0.015	20.0197	-7.04%	0.5537	-13.64%	0.7423	49.68%
Positional Noise 0.02	19.4860	-9.52%	0.5492	-14.34%	0.7636	53.98%
Positional Noise 0.025	19.3577	-10.11%	0.5435	-15.24%	0.7546	52.17%
Positional Noise 0.03	19.2124	-10.79%	0.5379	-16.11%	0.7684	54.96%
Positional Noise 0.035	18.5739	-13.75%	0.5322	-17.00%	0.7764	56.57%
Positional Noise 0.04	18.4975	-14.11%	0.5272	-17.78%	0.7669	54.65%
Positional Noise 0.045	18.3561	-14.76%	0.5241	-18.26%	0.7720	55.68%
Positional Noise 0.05	18.2792	-15.12%	0.5238	-18.32%	0.7751	56.30%
Positional Noise 0.0525	17.7225	-17.70%	0.5174	-19.31%	0.7744	56.16%
Positional Noise 0.055	18.1130	-15.89%	0.5193	-19.01%	0.7796	57.21%
Positional Noise 0.0575	17.9098	-16.83%	0.5162	-19.50%	0.7736	56.00%
Positional Noise 0.06	18.0343	-16.26%	0.5165	-19.45%	0.7729	55.86%

Table B.31: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Color noise degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.5351	-	0.6412	-	0.4959	-
PnS Blue Channel 5	21.3430	-0.89%	0.6369	-0.68%	0.5057	1.98%
PnS Blue Channel 10	21.3186	-1.01%	0.6243	-2.63%	0.5387	8.63%
PnS Blue Channel 15	20.6056	-4.32%	0.6165	-3.86%	0.5640	13.74%
PnS Blue Channel 20	20.2555	-5.94%	0.6110	-4.72%	0.5846	17.88%
PnS Blue Channel 25	19.7836	-8.13%	0.6061	-5.48%	0.5961	20.21%
PnS Blue Channel 30	19.5547	-9.20%	0.6041	-5.78%	0.6153	24.08%
PnS Blue Channel 35	18.8867	-12.30%	0.5961	-7.03%	0.6282	26.69%
PnS Blue Channel 40	18.4982	-14.10%	0.5968	-6.92%	0.6294	26.92%
PnS Green Channel 5	21.3465	-0.88%	0.6067	-5.39%	0.5909	19.16%
PnS Green Channel 10	21.1212	-1.92%	0.5937	-7.41%	0.6477	30.61%
PnS Green Channel 15	20.4739	-4.93%	0.5846	-8.83%	0.6853	38.20%
PnS Green Channel 20	19.8933	-7.62%	0.5755	-10.24%	0.7161	44.40%
PnS Green Channel 25	19.6429	-8.79%	0.5716	-10.85%	0.7498	51.20%
PnS Green Channel 30	19.0013	-11.77%	0.5688	-11.29%	0.7533	51.91%
PnS Green Channel 35	18.7412	-12.97%	0.5604	-12.60%	0.7889	59.09%
PnS Green Channel 40	18.4131	-14.50%	0.5565	-13.22%	0.7988	61.08%
Image Noise 16	21.1777	-1.66%	0.6277	-2.10%	0.5283	6.54%
Image Noise 32	21.1344	-1.86%	0.6095	-4.95%	0.5713	15.21%
Image Noise 48	21.2165	-1.48%	0.5945	-7.29%	0.5990	20.78%
Image Noise 64	20.9769	-2.59%	0.5844	-8.85%	0.6212	25.27%
Image Noise 80	20.0903	-6.71%	0.5711	-10.94%	0.6517	31.42%
Image Noise 96	19.2171	-10.76%	0.5580	-12.98%	0.6758	36.27%
Image Noise 112	18.9284	-12.10%	0.5491	-14.37%	0.7110	43.39%
Image Noise 128	18.1134	-15.89%	0.5423	-15.42%	0.7296	47.13%
PnS Red Channel 5	21.2679	-1.24%	0.6311	-1.58%	0.5235	5.56%
PnS Red Channel 10	21.0484	-2.26%	0.6128	-4.43%	0.5746	15.86%
PnS Red Channel 15	20.6564	-4.08%	0.6019	-6.13%	0.6161	24.25%
PnS Red Channel 20	20.0421	-6.93%	0.5956	-7.11%	0.6379	28.64%
PnS Red Channel 25	19.5453	-9.24%	0.5919	-7.70%	0.6651	34.11%
PnS Red Channel 30	19.0807	-11.40%	0.5859	-8.62%	0.6905	39.25%
PnS Red Channel 35	18.4613	-14.27%	0.5838	-8.96%	0.6956	40.28%
PnS Red Channel 40	18.0476	-16.19%	0.5765	-10.09%	0.7099	43.15%

Table B.32: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Lightning degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.5351	-	0.6412	-	0.4959	-
Gamma Correction 5	21.7712	1.10%	0.6464	0.82%	0.4861	-1.97%
Gamma Correction 10	20.9525	-2.71%	0.6332	-1.26%	0.5107	2.98%
Gamma Correction 15	21.5076	-0.13%	0.6360	-0.81%	0.5040	1.64%
Gamma Correction 20	21.6293	0.44%	0.6275	-2.13%	0.5231	5.48%
Gamma Correction 25	21.6196	0.39%	0.6325	-1.35%	0.5214	5.14%
Gamma Correction 30	20.1059	-6.64%	0.6226	-2.91%	0.5063	2.11%
Gamma Correction 35	21.1396	-1.84%	0.6276	-2.12%	0.5167	4.20%
Gamma Correction 40	21.2736	-1.21%	0.6214	-3.09%	0.5362	8.12%
Saturation Change 0.1	21.4758	-0.28%	0.6440	0.44%	0.4904	-1.11%
Saturation Change 0.2	21.5277	-0.03%	0.6439	0.41%	0.4925	-0.68%
Saturation Change 0.3	21.6525	0.55%	0.6505	1.45%	0.4810	-3.00%
Saturation Change 0.4	21.4488	-0.40%	0.6472	0.93%	0.4839	-2.41%
Saturation Change 0.5	21.4673	-0.31%	0.6395	-0.27%	0.5086	2.56%
Saturation Change 0.6	21.4364	-0.46%	0.6378	-0.53%	0.5025	1.32%
Saturation Change 0.7	21.4886	-0.22%	0.6377	-0.55%	0.5148	3.81%
Saturation Change 0.8	21.1576	-1.75%	0.6361	-0.79%	0.5164	4.14%
Saturation Change 0.9	21.3646	-0.79%	0.6440	0.44%	0.4868	-1.83%
Saturation Change 1.0	21.3504	-0.86%	0.6364	-0.76%	0.5181	4.48%

Table B.33: Mean results achieved in the PSNR ↑, SSIM ↑ and LPIPS ↓ metrics, with the relative change compared to the benchmark setting. Stump dataset is used. Reductions degradations. Nerfacto model is used. Camera optimizer is enabled.

Experiment	PSNR	Rel. PSNR	SSIM	Rel. SSIM	LPIPS	Rel. LPIPS
Benchmark	21.5351	-	0.6412	-	0.4959	-
Reduced Image Set 2	21.7325	0.92%	0.6448	0.56%	0.4983	0.49%
Reduced Image Set 3	21.5861	0.24%	0.6344	-1.06%	0.5041	1.65%
Reduced Image Set 4	21.0452	-2.28%	0.6151	-4.07%	0.5327	7.41%
Reduced Image Set 5	21.2751	-1.21%	0.6160	-3.93%	0.5275	6.37%
Reduced Image Set 6	21.3301	-0.95%	0.6229	-2.85%	0.5105	2.94%
Reduced Image Set 7	20.8239	-3.30%	0.6038	-5.83%	0.5396	8.82%
Reduced Image Set 8	19.7881	-8.11%	0.5794	-9.64%	0.5692	14.77%
Height Reduction 10	17.4045	-19.18%	0.5143	-19.80%	0.6479	30.64%
Height Reduction 20	17.8401	-17.16%	0.5231	-18.41%	0.6452	30.11%
Height Reduction 30	18.1700	-15.63%	0.5427	-15.37%	0.6423	29.52%
Height Reduction 40	18.6814	-13.25%	0.5620	-12.36%	0.6005	21.09%
Height Reduction 50	18.9581	-11.97%	0.5674	-11.51%	0.5715	15.25%
Height Reduction 60	19.3677	-10.06%	0.5830	-9.08%	0.5624	13.41%
Height Reduction 70	20.0015	-7.12%	0.5905	-7.91%	0.5461	10.13%
Height Reduction 80	18.7081	-13.13%	0.5678	-11.46%	0.5765	16.25%
Height Reduction 90	18.9613	-11.95%	0.5753	-10.28%	0.5691	14.76%
Height Reduction 100	12.8764	-40.21%	0.4439	-30.77%	0.8714	75.72%