			MegaDepth					ScanNet				Pl	lanar		IMC PhotoTourism						
Pipeline	Filtered	Precision	Recall	${\rm AUC}^F_{\mathbb{Z}}$	$\mathrm{AUC}^E_{\measuredangle}$	Filtered	Precision	Recall	${\rm AUC}_{\mathbb{Z}}^F$	$\mathrm{AUC}^E_{\measuredangle}$	Filtered	Precision	Recall	AUC_\square^H	Filtered	Precision	Recall	${\rm AUC}_{\measuredangle}^F$	$\mathrm{AUC}_{\mathbb{Z}}^E$	AUC_{\square}^F	$\mathrm{AUC}_{\square}^{E}$
$\begin{array}{c} \text{LoFTR} \\ + \text{MAGSAC}_{\uparrow} \\ + \text{MAGSAC}_{\downarrow} \end{array}$	0.00 42.45 50.68	82.27 90.59 91.20	99.95 64.37 55.36	16.00 54.87 56.05	56.97 61.80 62.78	0.00 48.83 56.06	58.84 69.72 69.88	98.82 59.54 51.12	2.40 30.36 30.27	36.12 35.64 36.03	0.00 80.21 85.77	60.29 74.42 74.04	92.10 23.88 16.84	40.09 41.00 39.23	0.00 47.20 55.66	79.88 89.44 89.91	99.95 60.07 50.65	15.36 51.94 52.85	62.72 66.51 67.02	5.81 27.36 27.90	32.81 36.60 36.98
$+ACNe$ $+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	41.70 62.94 67.88	85.75 90.28 90.77	61.20 41.26 35.81	25.89 35.99 36.64	43.29 48.09 48.89	50.04 66.65 71.02	65.47 69.38 69.51	55.50 38.81 33.71	7.93 18.14 18.41	27.50 27.84 27.40	52.17 86.80 90.19	64.56 73.54 73.73	50.85 15.70 11.46	39.06 33.83 32.53	42.03 65.51 70.70	85.12 90.07 90.46	62.27 39.64 33.75	25.51 38.24 38.57	51.54 56.05 56.05	10.31 17.03 17.25	23.90 26.62 26.85
+AdaLAM +MAGSAC↑ +MAGSAC↓	0.00 42.45 50.68	82.27 90.59 91.20	99.95 64.37 55.36	16.00 54.87 56.05	56.97 61.80 62.78	0.00 48.83 56.06	58.84 69.72 69.88	98.82 59.54 51.12	2.40 30.36 30.27	36.12 35.64 36.03	0.00 80.21 85.77	60.29 74.42 74.04	92.30 23.88 16.84	40.13 41.00 39.23	0.00 47.20 55.66	79.88 89.44 89.91	99.95 60.07 50.65	15.36 51.94 52.85	62.69 66.51 67.02	5.82 27.36 27.90	32.88 36.60 36.98
$^{+\mathrm{CC}}_{+\mathrm{MAGSAC}_\uparrow}$ $^{+\mathrm{MAGSAC}_\downarrow}$	18.43 49.51 56.30	84.61 89.56 90.07	85.01 56.25 48.79	35.38 42.76 43.95	48.06 54.29 55.27	27.41 54.21 60.40	66.75 70.16 70.29	80.09 53.42 46.18	14.31 25.19 25.35	31.16 32.34 31.41	28.15 85.16 89.12	49.93 58.09 58.30	70.97 18.13 13.35	42.70 30.00 28.94	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a
+CLNet +MAGSAC↑ +MAGSAC↓	19.18 50.24 57.03	85.42 90.50 90.96	83.88 55.30 47.84	20.50 33.70 34.70	45.60 51.06 52.52	50.68 64.14 68.71	67.83 70.13 70.18	56.28 41.69 36.35	4.55 12.43 12.80	24.98 23.94 23.90	30.33 80.58 86.17	63.87 71.66 71.95	73.82 22.66 16.10	50.51 38.75 37.22	30.08 58.35 64.57	85.12 89.74 90.12	74.48 47.20 40.25	18.34 31.17 31.74	50.34 54.99 55.34	7.56 14.02 14.29	23.41 26.57 26.81
+ConvMatch +MAGSAC↑ +MAGSAC↓	75.11 82.85 85.19	86.01 87.69 88.03	26.71 19.15 16.58	19.28 21.33 21.22	28.97 30.11 31.50	77.09 83.61 85.57	66.71 66.57 66.68	29.16 21.02 18.39	7.55 9.24 9.98	18.21 17.75 18.75	73.82 93.07 94.86	63.75 70.99 71.24	27.60 8.30 5.92	28.98 24.13 23.68	74.21 83.19 85.76	85.78 87.56 87.87	28.97 19.75 16.77	22.17 24.01 24.15	36.68 39.23 39.51	8.47 9.64 9.71	15.07 16.43 16.55
+DeMatch +MAGSAC↑ +MAGSAC↓	62.46 74.70 78.01	86.21 89.46 89.85	39.81 28.00 24.38	22.54 26.16 26.19	33.88 37.33 38.22	65.80 75.20 78.30	67.56 69.53 69.56	40.23 29.48 25.71	7.00 10.74 11.16	21.59 21.13 20.73	69.06 90.93 93.20	63.78 71.76 71.96	32.65 10.59 7.86	31.80 28.14 27.44	63.83 76.79 80.21	85.42 88.86 89.18	39.46 26.54 22.68	23.48 27.95 28.22	40.36 43.11 43.33	8.96 11.34 11.57	17.18 18.46 18.29
+MAGSAC↑ +MAGSAC↓ +GMS	20.82 29.79 33.53	93.18 95.38 95.65	99.03 90.97 86.53	40.76 64.15 64.44	66.01 67.32 66.34	35.61 49.78 54.26	71.66 71.83	73.02 59.17 53.93	11.47 29.74 29.87	34.78 34.95 34.22	31.26 56.14 64.91	77.19 77.70	111.36 79.09 64.16	61.76 57.18 53.74	29.50 36.10 39.17	93.02 95.19 95.46	89.67 83.69 80.06	39.30 60.44 60.87	71.29 71.27 71.20	20.55 34.82 35.10	41.68 41.62 41.54
+MAGSAC _↑ +MAGSAC _↓ +MS ² DG-Net	16.40 50.45 57.35	82.84 88.25 88.73	85.76 55.21 47.63	36.34 50.49 51.43	52.68 58.25 58.53	39.20 58.82 64.34	66.48 69.20 69.32	67.45 47.59 41.22	11.87 25.89 25.47	31.10 30.96 31.60	30.91 82.51 87.36	63.02 71.65 72.11	73.13 20.96 15.13	49.71 39.43 38.13	21.72 55.86 62.74	84.15 89.46 89.90	82.53 50.42 42.69	33.21 48.30 48.91	58.08 62.77 63.16	14.86 24.92 25.31	30.16 33.84 34.25
+MS DG-Net +MAGSAC↑ +MAGSAC↓ +NCMNet	79.12 86.53 88.20	84.38 88.55 88.93	22.04 15.20 13.33	10.61 26.72 27.01	26.69 31.68 31.93	71.03 81.09 83.33 48.03	66.45 70.82 70.93 67.90	33.76 23.12 20.35	1.39 13.67 13.67	19.26 19.37 19.00	78.34 95.16 96.29 25.68	62.50 72.30 72.87 64.20	22.95 5.90 4.70 78.87	11.77 23.35 22.63	75.42 85.25 87.30 26.59	84.08 88.82 89.11	26.62 17.17 14.80	10.56 26.48 27.03	32.36 37.09 37.78 51.61	3.88 11.40 11.68	13.45 15.87 16.19 23.99
+MAGSAC↑ +MAGSAC↓	17.90 49.34 56.24 85.69	90.66 91.13 86.28	56.37 48.80 15.28	19.65 34.15 34.92 12.63	46.39 51.48 51.18	62.09	69.92 70.04	59.37 43.97 38.31 17.35	6.77 14.75 14.80	27.42 26.65 26.13	80.32 85.88 86.93	73.42 73.62 62.50	23.65 16.98	53.07 40.16 38.56 16.02	56.52 63.07 86.17	85.51 90.09 90.48 85.15	78.54 49.54 42.17	19.06 31.91 32.30	55.90 56.30 25.55	14.25 14.51 4.40	26.86 27.29 9.97
+MAGSAC _↑ +MAGSAC _↓	89.74 90.99	88.73 89.02 83.54	11.31 9.96	15.93 16.40 26.54	24.03 25.14 56.38	88.04 89.28	66.62 66.61 62.83	13.82 12.27	6.66 6.82 5.84	13.23 12.01 12.11 35.70	95.84 96.77	69.14 69.63	4.32 3.23 89.79	19.34 19.48 51.52	90.51 91.75	87.58 87.78 82.17	10.77 9.37 98.80	14.79 15.02 23.50	27.17 27.06 62.74	5.69 5.71 9.73	10.48 10.47 33.07
+MAGSAC _↑ +MAGSAC _↓ + MOP + MiHo	42.60 50.77	90.73 91.27 82.81	64.28 55.30 99.83	54.49 55.54 21.94	62.29 62.19 56.69	50.01 57.05	70.30 70.48 60.72	58.60 50.38 95.09	29.91 29.91 3.82	36.08 35.37 35.94	80.27 85.93	74.21 74.58 61.59	24.32 17.42 89.40	40.84 39.36 46.21	47.56 55.94	89.84 90.31 80.87	59.88 50.51 99.48	52.36 52.98 18.88	66.62 67.39	27.43 27.89 7.44	36.49 37.44 33.14
+MAGSAC _↑ +MAGSAC _↓ +MOP+MiHo+NCC	42.52 50.73	90.64 91.21 81.33	64.30 55.32	54.51 55.84 19.27	62.52 63.15 67.26	49.08 56.29	69.96 70.13	59.54 51.06	29.58 30.05	35.32 35.29 34.97	80.03 85.74	74.32 74.60 69.33	24.18 17.16	40.21 40.97 39.17	47.34 55.77	89.62 90.10 78.70	60.02 50.60 108.51	52.13 53.03	66.83 67.37	27.49 28.00 5.67	36.77 37.37 40.94
$\begin{array}{c} + \mathrm{MAGSAC}_\uparrow \\ + \mathrm{MAGSAC}_\downarrow \\ + \mathbf{MOP} + \mathbf{NCC} \end{array}$	33.47 38.49 2.40	95.58 96.14 81.59	93.75 87.81	58.94 60.10 22.98	66.27 66.69	58.01 63.35	69.39 69.62 58.09	49.18 42.95 86.17	27.30 27.23 5.30	34.87 34.82 34.23	48.91 57.61	82.14 82.94	113.46 96.74	67.90 63.85	38.98 44.00	94.53 95.08 79.62	85.02 78.97	53.73 54.65 19.04	71.11 70.93 71.59	29.62 30.24 6.96	40.56 40.33 41.07
$\begin{array}{c} + \mathrm{MAGSAC}_\uparrow \\ + \mathrm{MAGSAC}_\downarrow \end{array}$	34.01 38.98 0.00	95.39 95.95 71.10	91.16 85.37 89.89	58.90 60.00	66.07 66.09 50.87	59.36 64.53	69.72 69.83 53.24	48.16 42.03	26.72 26.51 2.18	34.14 33.56 30.46	49.97 57.99	81.91 82.23 52.54	108.28 93.25 95.12	66.40 61.93	39.36 44.26	94.59 95.12 69.27	84.09 78.18	53.80 54.60 12.72	70.94 70.79 56.37	30.01 30.39 4.53	40.61 40.53 29.73
$^{+\mathrm{MAGSAC}_{\uparrow}}_{+\mathrm{MAGSAC}_{\downarrow}}$	49.82 56.23	87.92 88.54	59.56 52.79	42.89 42.87	52.15 52.03	62.36 67.99	68.04 68.19	43.51 37.01	22.81 23.31	30.98 30.72	77.91 83.75	77.96 78.52	42.03 32.04	47.20 44.07	55.35 61.67	88.38 88.93	54.79 47.68	39.31 39.52	57.00 56.66	19.94 20.02	30.61 30.34