		MegaDepth						ScanNet				P	lanar		IMC PhotoTourism						
Pipeline	Filtered	Precision	Recall	$\mathrm{AUC}^F_{\measuredangle}$	$\mathrm{AUC}_{\measuredangle}^E$	Filtered	Precision	Recall	$\mathrm{AUC}^F_{\measuredangle}$	${\rm AUC}^E_{\measuredangle}$	Filtered	Precision	Recall	AUC_{\square}^H	Filtered	Precision	Recall	$\mathrm{AUC}^F_{\measuredangle}$	$\mathrm{AUC}^E_{\measuredangle}$	AUC_{\square}^F	$\mathrm{AUC}_{\square}^{E}$
$\begin{array}{c} ALIKED+LightGlue\\ +MAGSAC_{\uparrow}\\ +MAGSAC_{\downarrow} \end{array}$	0.00 15.88 23.71	92.95 95.63 96.23	99.72 86.88 79.40	54.83 61.86 61.79	61.79 61.82 63.35	0.00 33.48 40.67	65.50 68.44 68.40	93.06 65.40 57.83	12.72 19.55 19.90	26.79 26.98 26.82	0.00 49.92 61.56	76.17 81.77 82.42	90.91 52.73 40.39	60.79 53.40 50.52	0.00 15.81 23.19	93.63 96.29 96.74	99.75 86.75 79.58	47.72 58.68 58.91	67.17 67.78 68.17	23.37 31.35 31.60	36.09 36.58 36.87
$^{+\text{ACNe}}_{+\text{MAGSAC}_{\uparrow}}$ $^{+\text{MAGSAC}_{\downarrow}}$	39.70	93.67	60.76	34.39	49.70	42.98	67.49	54.59	9.90	18.34	52.20	77.15	44.12	45.24	41.51	94.59	59.05	39.32	58.98	16.70	27.58
	47.23	95.55	54.51	39.15	50.64	58.87	67.69	41.04	11.91	18.85	72.64	80.77	28.14	43.06	48.84	96.33	52.78	45.15	59.22	20.58	27.79
	51.60	96.05	50.32	39.46	51.73	62.63	67.70	37.10	12.07	18.92	78.24	81.20	22.17	41.86	52.76	96.71	48.94	45.64	59.65	20.90	28.30
+AdaLAM +MAGSAC↑ +MAGSAC↓	0.00 15.88 23.72	92.95 95.63 96.23	99.72 86.88 79.40	54.83 61.86 61.79	61.79 61.82 63.35	0.00 33.48 40.67	65.50 68.44 68.40	93.06 65.40 57.83	12.72 19.55 19.90	26.79 26.98 26.82	0.00 49.92 61.56	76.17 81.77 82.42	90.91 52.73 40.39	53.40 50.52	0.00 15.81 23.19	93.63 96.29 96.74	99.75 86.75 79.58	47.72 58.68 58.91	67.17 67.78 68.17	23.37 31.35 31.60	36.09 36.58 36.87
$^{+\mathrm{CC}}_{+\mathrm{MAGSAC}_\uparrow} \\ ^{+\mathrm{MAGSAC}_\downarrow}$	17.59	86.24	82.54	43.16	53.84	33.98	54.91	61.10	10.39	19.04	79.33	10.37	12.65	7.57	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	29.82	88.36	72.49	48.27	54.97	54.56	55.91	44.51	12.35	18.91	92.81	11.14	6.78	6.09	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	36.19	88.86	66.33	48.47	54.98	58.99	55.92	39.78	12.63	18.98	94.12	11.25	5.39	5.59	n/a	n/a	n/a	n/a	n/a	n/a	n/a
$^{+\text{CLNet}}_{+\text{MAGSAC}_{\uparrow}} \\ ^{+\text{MAGSAC}_{\downarrow}}$	14.87	93.37	85.31	35.30	52.86	46.80	68.60	50.87	6.09	16.60	17.63	77.43	80.43	58.27	19.67	94.49	80.87	36.07	59.50	15.51	28.05
	26.62	95.41	75.64	41.56	53.98	60.40	64.41	39.42	8.74	16.28	55.66	81.63	47.42	51.44	29.96	96.22	72.03	43.68	60.12	19.97	28.74
	33.00	95.93	69.53	41.54	54.66	64.07	64.51	35.67	8.98	15.42	66.01	82.23	36.30	47.88	35.55	96.62	66.60	44.09	60.30	20.14	28.73
$+ ConvMatch \\ + MAGSAC_{\uparrow} \\ + MAGSAC_{\downarrow}$	65.67	93.06	34.39	26.47	40.50	65.97	67.98	33.09	6.72	14.24	62.92	76.76	34.06	41.41	64.47	94.35	35.83	31.57	50.94	12.56	22.91
	69.64	94.31	31.20	28.21	40.97	75.33	64.30	25.40	7.51	13.52	77.70	79.28	22.15	39.21	68.53	95.45	32.37	35.71	51.74	15.37	23.18
	72.07	94.71	28.87	29.19	41.17	77.38	64.34	23.22	7.39	13.59	82.13	79.59	17.51	38.07	70.91	95.81	30.05	36.16	51.45	15.44	23.01
$^{+\mathrm{DeMatch}}_{+\mathrm{MAGSAC}_{\uparrow}}$ $^{+\mathrm{MAGSAC}_{\downarrow}}$	64.63	93.35	35.44	24.51	40.23	68.01	67.36	31.01	4.37	11.01	66.67	76.40	29.59	36.16	65.18	94.39	35.10	28.42	47.54	10.90	20.20
	68.65	94.79	32.16	26.79	40.43	76.15	64.28	24.39	5.14	10.97	79.83	79.85	19.60	36.54	69.12	95.78	31.71	32.35	48.09	13.09	20.31
	71.12	95.21	29.79	27.15	40.04	78.13	64.34	22.34	5.29	11.17	83.69	80.20	15.59	35.35	71.39	96.12	29.50	32.84	48.19	13.40	20.22
$^{+\mathrm{FC-GNN}}_{+\mathrm{MAGSAC}_{\uparrow}}$ $^{+\mathrm{MAGSAC}_{\downarrow}}$	13.69	96.89	90.93	63.46	64.75	32.30	70.66	65.88	16.71	25.28	13.04	77.93	82.53	58.93	13.63	95.25	87.70	53.11	65.92	27.17	34.55
	15.66	97.24	89.35	65.62	65.38	40.67	70.76	59.67	18.82	25.68	51.61	81.27	49.65	52.03	22.25	96.54	80.21	57.74	66.60	30.56	35.59
	17.31	97.35	87.69	65.70	65.05	43.23	70.79	56.96	18.93	25.64	62.53	81.93	38.09	49.00	28.30	96.93	74.32	57.85	66.74	30.67	35.29
$^{+\mathrm{GMS}}_{+\mathrm{MAGSAC}_{\uparrow}}$ $^{+\mathrm{MAGSAC}_{\downarrow}}$	20.69	90.93	79.57	51.23	56.55	54.20	64.58	46.40	9.34	16.76	38.96	75.70	61.70	51.11	20.11	93.69	80.36	46.52	62.58	22.48	32.51
	31.61	92.02	70.44	55.77	56.69	63.94	60.87	36.63	11.24	16.49	63.74	79.12	38.84	45.79	30.65	95.23	71.31	53.21	62.83	27.23	32.43
	37.44	92.49	64.85	55.85	57.25	67.54	60.92	32.94	11.29	16.82	72.27	79.62	29.93	43.76	36.24	95.63	65.87	53.42	63.15	27.40	32.70
$+ MS^{2}DG-Net \\ + MAGSAC_{\uparrow} \\ + MAGSAC_{\downarrow}$	70.80	93.83	29.36	36.82	37.72	59.15	67.82	35.97	7.45	11.77	65.87	77.95	27.91	41.45	70.10	94.70	30.12	34.37	45.40	14.35	18.96
	74.76	95.64	26.19	37.23	38.15	69.82	68.23	27.92	8.35	11.35	81.41	81.26	18.23	38.12	73.66	96.16	27.13	37.33	45.53	16.59	19.23
	76.84	96.13	24.18	37.56	38.81	71.81	68.19	25.96	7.89	11.46	84.69	81.72	14.78	37.42	75.52	96.50	25.31	37.60	45.72	16.69	19.30
$+ \begin{array}{c} + \text{NCMNet} \\ + \text{MAGSAC}_{\uparrow} \\ + \text{MAGSAC}_{\downarrow} \end{array}$	13.49	93.44	86.78	36.15	53.66	44.51	67.92	52.75	7.34	16.99	15.98	76.62	80.94	58.96	17.09	94.58	83.54	36.70	59.38	15.71	28.22
	25.51	95.38	76.85	41.77	53.33	58.85	63.73	40.79	9.68	16.50	53.86	80.26	48.51	50.65	27.79	96.26	74.33	43.45	59.76	19.69	28.28
	32.03	95.90	70.62	42.51	55.06	62.69	63.79	36.83	9.45	17.02	64.78	80.75	37.07	48.39	33.61	96.66	68.68	44.03	60.18	19.97	28.61
$^{+\mathrm{OANet}}_{+\mathrm{MAGSAC}_{\uparrow}}$ $^{+\mathrm{MAGSAC}_{\downarrow}}$	89.60	94.35	10.53	12.24	23.76	88.14	67.35	11.04	2.87	5.90	89.91	76.42	9.21	27.86	89.20	94.90	10.93	15.46	32.57	5.54	12.40
	90.44	94.73	9.85	13.08	24.04	92.89	52.54	7.12	2.66	5.82	94.03	77.88	6.01	27.55	90.12	95.24	10.14	17.26	32.60	6.44	12.44
	90.94	94.97	9.36	13.72	23.64	93.21	52.52	6.79	2.70	6.04	95.17	78.04	4.86	27.13	90.65	95.46	9.61	17.36	32.68	6.43	12.63
+MAGSAC↑ +MAGSAC↓	1.05 16.29 24.12	92.99 95.60 96.18	99.02 86.60 79.11	55.50 61.31 61.51	62.22 62.02 63.18	17.92 41.40 48.15	64.46 66.82 66.90	82.25 60.03 53.00	13.76 18.59 19.12	26.17 25.99 25.82	11.47 52.31 63.85	76.39 81.48 82.14	88.60 51.62 39.38	60.98 52.82 50.29	1.05 16.13 23.46	93.82 96.29 96.74	99.13 86.49 79.37	49.37 58.28 58.33	67.12 67.62 68.04	24.15 31.04 31.13	35.97 36.38 36.92
+MOP+NCC	1.05	87.74	93.81	33.18	63.06	17.92	62.01	80.76	8.52	27.29	11.47	77.20	92.41	61.77 59.69 57.33	1.05	86.79	91.65	25.69	67.85	9.87	37.03
+MAGSAC↑	22.05	96.09	81.58	56.91	63.49	43.30	66.70	58.99	18.51	26.42	33.84	81.66	73.71		26.43	96.21	76.11	51.35	67.03	26.94	36.67
+MAGSAC↓	26.22	96.49	77.62	57.28	62.94	47.93	66.72	54.06	18.81	26.73	43.10	82.00	63.53		30.72	96.56	71.97	52.11	66.81	27.42	36.36
+MOP+MiHo +MAGSAC↑ +MAGSAC↓	0.52 16.00 23.83	92.98 95.65 96.22	99.38 86.82 79.33	55.14 61.56 61.47	61.94 62.00 63.27	11.29 37.55 44.58	65.28 68.15 68.15	87.47 63.12 55.74	13.38 19.19 19.51	26.27 26.43 26.20	9.82 51.73 63.24	76.16 81.44 82.11	88.71 51.57 39.44	53.31 50.26	0.55 15.94 23.30	93.73 96.30 96.75	99.48 86.67 79.52	48.81 58.47 58.57	67.27 67.83 68.19	23.86 31.17 31.24	36.11 36.66 36.94
+MOP+MiHo+NCC +MAGSAC↑ +MAGSAC↓	0.52 21.47 25.54	96.29 96.64	94.50 82.26 78.37	34.22 58.07 59.01	63.86 64.09 62.86	11.29 39.72 44.73	62.91 68.00 68.13	86.28 61.91 56.75	8.81 18.95 19.34	27.50 26.51 27.05	9.82 33.54 42.52	77.08 81.59 81.91	93.21 73.66 63.89	62.10 59.48 56.86	0.55 26.14 30.55	87.02 96.29 96.63	92.33 76.44 72.17	26.58 52.04 52.74	67.76 66.98 66.79	9.80 26.94 27.52	36.86 36.42 35.82
+MCC	0.00	77.88	82.02	27.66	46.89	0.00	61.52	89.88	7.50	24.24	0.00	58.44	66.85	50.80	0.00	77.15	81.02	21.77	52.18	7.76	26.41
$+$ MAGSAC $_{\uparrow}$	36.81	89.37	62.01	39.43	47.22	40.46	67.30	59.00	16.34	23.60	67.48	79.77	32.28	45.75	43.09	90.73	55.94	36.24	52.75	17.51	26.70
$+$ MAGSAC $_{\downarrow}$	42.67	89.84	56.71	40.07	47.63	45.93	67.36	53.21	16.68	23.57	74.92	79.85	24.46	42.78	49.23	91.20	50.30	36.45	52.42	17.75	26.59