	MegaDepth											ScanNet											Planar							IMC PhotoTourism																		
Pipeline	Filtered	Precision	Recall	AUC$^F_{@5}$	AUC$^F_{@10}$	AUC$^F_{@20}$	AUC$^F_{\measuredangle}$	AUC$^E_{@5}$	AUC$^E_{@10}$	AUC$^E_{@20}$	AUC$^E_{\measuredangle}$	Filtered	Precision	Recall	AUC$^F_{@5}$	AUC$^F_{@10}$	AUC$^F_{@20}$	AUC$^F_{\measuredangle}$	AUC$^E_{@5}$	AUC$^E_{@10}$	AUC$^E_{@20}$	AUC$^E_{\measuredangle}$	Filtered	Precision	Recall	AUC$^H_{@5}$	AUC$^H_{@10}$	AUC$^H_{@15}$	AUC$^H_{\square}$	Filtered	Precision	Recall	AUC$^F_{@5}$	AUC$^F_{@10}$	AUC$^F_{@20}$	AUC$^F_{\measuredangle}$	AUC$^F_{@(5,\frac{1}{2})}$	AUC$^F_{@(10,1)}$	AUC$^F_{@(20,2)}$	AUC$^F_{\square}$	AUC$^E_{@5}$	AUC$^E_{@10}$	AUC$^E_{@20}$	AUC$^E_{\measuredangle}$	AUC$^E_{@(5,\frac{1}{2})}$	AUC$^E_{@(10,1)}$	AUC$^E_{@(20,2)}$	AUC$^E_{\square}$
SIFT	0.00	53.52	**100.00**	0.06	0.12	0.73	0.30	45.63	62.56	76.23	61.47	0.00	25.21	**99.12**	0.00	0.05	0.39	0.15	9.10	19.78	32.39	20.42	0.00	44.38	**90.42**	0.00	0.41	0.70	22.88	0.00	39.31	**99.94**	0.01	0.08	0.56	0.21	0.03	0.12	0.63	0.26	42.70	57.56	69.45	56.57	18.63	30.67	44.43	31.24
+ACNe	47.98	92.51	90.88	12.60	27.58	47.58	29.25	45.29	64.09	78.30	62.56	67.72	55.42	71.03	3.13	10.55	24.44	12.71	**11.97**	**25.37**	**39.84**	**25.73**	54.05	66.12	70.87	17.48	24.20	27.72	35.07	61.26	84.45	84.77	8.15	20.41	39.57	22.71	2.96	7.31	15.26	8.51	**46.23**	**62.30**	**74.51**	**61.01**	18.48	31.50	46.82	32.27
+ACNe+MAGSAC$_{\uparrow}$	53.64	96.39	83.39	38.61	54.83	69.60	54.34	45.82	64.23	78.43	62.83	79.85	60.96	47.76	7.81	18.27	**31.87**	19.31	11.97	24.97	**39.84**	**25.59**	72.80	74.25	44.48	32.24	46.98	53.98	44.42	66.56	89.79	75.67	31.20	45.12	**59.20**	45.17	13.16	22.43	33.65	23.08	46.05	**62.04**	**74.27**	**60.79**	18.41	31.31	46.57	32.10
+ACNe+MAGSAC$_{\downarrow}$	56.55	96.80	78.35	39.03	55.13	69.94	54.70	44.78	63.57	77.79	62.05	82.11	60.98	42.28	7.99	**18.50**	**31.94**	**19.48**	11.58	24.70	**39.49**	25.26	77.78	74.17	35.81	31.65	45.78	52.56	41.45	68.51	90.12	71.18	**32.16**	**46.05**	**60.01**	**46.08**	13.59	23.05	**34.51**	23.72	45.74	**61.95**	74.16	**60.62**	18.24	31.25	46.43	31.97
+AdaLAM	**82.59**	93.53	27.39	8.08	14.92	27.14	16.72	36.98	53.54	67.84	52.79	**92.38**	53.61	15.17	1.08	3.04	6.71	3.61	6.34	13.92	23.05	14.44	80.67	63.16	25.89	20.81	31.08	35.36	28.29	**91.03**	83.75	16.71	8.06	13.27	20.88	14.07	3.49	6.45	10.84	6.93	28.35	40.29	51.30	39.98	12.10	20.71	31.19	21.33
+AdaLAM+MAGSAC$_{\uparrow}$	**83.65**	92.40	26.08	34.18	47.11	60.09	47.13	35.37	51.91	66.19	51.16	**93.93**	46.42	12.23	4.41	9.88	17.38	10.56	5.90	13.13	22.04	13.69	84.95	60.73	20.41	27.04	39.75	45.23	33.11	**91.52**	73.33	15.77	21.53	30.17	39.48	30.39	10.72	17.34	24.91	17.66	27.70	39.72	50.47	39.30	11.90	20.17	30.35	20.81
+AdaLAM+MAGSAC$_{\downarrow}$	**84.25**	92.64	25.22	34.29	47.41	60.65	47.45	34.12	51.04	65.97	50.38	**94.38**	46.41	11.32	4.76	10.47	18.14	11.12	6.46	13.86	22.75	14.36	87.28	60.99	17.28	27.16	39.64	44.98	32.26	**91.76**	73.42	15.36	21.66	30.38	39.73	30.59	10.97	17.46	25.08	17.84	27.83	39.74	50.45	39.34	11.89	20.21	30.41	20.84
+CC	46.83	92.78	89.32	15.38	25.86	39.48	26.91	43.41	61.04	75.03	59.83	40.87	52.01	**81.13**	1.49	4.21	9.53	5.08	7.83	17.31	29.22	18.12	27.33	66.77	**89.62**	34.37	46.11	50.96	**55.26**	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
+CC+MAGSAC$_{\uparrow}$	54.12	96.28	80.70	38.08	52.51	66.09	52.23	42.51	60.61	74.97	59.36	81.21	59.26	41.56	5.19	11.94	20.91	12.68	7.90	17.81	30.04	18.59	69.29	73.36	49.55	36.27	49.40	54.71	47.48	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
+CC+MAGSAC$_{\downarrow}$	57.00	96.69	75.85	38.90	53.23	66.67	52.94	43.38	61.45	75.54	60.12	83.30	59.14	36.73	5.17	11.85	21.00	12.67	7.63	17.41	29.57	18.20	75.61	73.44	39.61	36.36	48.93	54.18	44.77	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	48.86	91.30	87.88	3.26	7.06	16.61	8.97	40.37	59.60	74.60	58.19	77.09	58.23	52.82	0.56	2.18	6.54	3.10	8.56	19.40	31.99	19.98	50.71	68.34	76.41	20.40	28.16	33.69	39.66	62.34	85.58	83.07	7.94	14.92	26.26	16.37	1.71	4.18	9.26	5.05	43.96	60.43	73.13	59.17	17.32	29.74	44.76	30.61
+CLNet+MAGSAC$_{\uparrow}$	55.64	96.13	79.14	28.81	42.79	58.08	43.23	38.44	57.90	73.89	56.75	83.33	61.54	39.84	3.90	9.71	19.37	10.99	8.07	18.68	31.37	19.37	69.31	74.19	49.16	36.14	49.35	55.05	47.42	67.41	90.32	73.95	26.78	39.41	53.47	39.88	11.57	19.50	29.46	20.18	43.51	60.08	72.83	58.80	16.94	29.35	44.42	30.24
+CLNet+MAGSAC$_{\downarrow}$	58.52	96.59	74.21	29.34	43.59	58.76	43.90	39.67	59.05	74.44	57.72	85.15	61.33	35.34	4.05	9.76	19.07	10.96	7.94	18.47	30.64	19.02	75.56	74.24	39.01	35.87	48.53	54.17	44.39	69.38	90.66	69.44	27.86	40.54	54.52	40.97	12.06	20.18	30.38	20.87	43.39	59.83	72.75	58.65	16.79	29.07	44.08	29.98
+ConvMatch	57.48	88.99	79.39	15.93	27.69	42.12	28.58	39.88	57.97	72.15	56.66	69.50	56.86	70.05	2.23	7.00	16.99	8.74	11.20	23.55	37.11	23.95	71.07	63.96	50.96	17.74	29.15	35.42	33.32	63.69	84.05	83.00	13.81	24.76	39.39	25.99	4.90	9.98	17.90	10.92	45.30	61.77	**74.28**	60.45	17.46	30.37	45.94	31.26
+ConvMatch+MAGSAC$_{\uparrow}$	62.89	92.85	71.39	32.47	46.75	60.19	46.47	40.80	58.21	72.15	57.05	80.86	61.77	46.67	7.21	16.48	28.04	17.24	10.95	23.40	37.18	23.85	84.62	70.11	30.68	22.79	37.13	44.28	33.72	69.50	90.27	72.00	29.94	43.15	56.99	43.36	12.85	21.73	32.63	22.40	44.72	61.17	73.95	59.95	17.42	30.11	45.41	30.98
+ConvMatch+MAGSAC$_{\downarrow}$	65.25	93.24	67.01	33.63	47.53	60.74	47.30	40.98	58.70	72.60	57.43	83.00	61.77	41.37	7.35	16.79	28.37	17.50	10.32	22.55	36.37	23.08	**87.40**	70.32	25.19	23.35	37.38	44.67	32.65	71.33	90.62	67.59	30.85	44.08	57.74	44.22	13.55	22.41	33.28	23.08	44.86	61.20	73.85	59.97	17.47	30.13	45.53	31.04
+DeMatch	52.87	91.38	83.69	14.20	24.92	39.03	26.05	39.51	59.03	74.52	57.69	70.09	55.89	67.66	1.69	5.29	13.47	6.82	9.59	21.57	35.51	22.22	64.33	65.16	57.55	23.75	34.93	40.08	39.07	63.59	83.19	81.96	12.37	22.79	37.23	24.13	4.07	8.84	16.55	9.82	44.42	60.91	73.47	59.60	16.93	29.91	45.23	30.69
+DeMatch+MAGSAC$_{\uparrow}$	58.86	95.94	75.29	30.66	44.49	59.69	44.95	40.37	59.25	74.41	58.01	81.27	60.89	45.11	5.55	14.06	24.86	14.82	10.55	22.54	35.68	22.93	79.19	72.74	36.09	29.14	43.92	50.93	40.02	69.61	89.57	70.95	28.37	41.26	54.90	41.51	12.07	20.49	31.02	21.19	43.75	60.11	72.94	58.94	16.99	29.34	44.43	30.26
+DeMatch+MAGSAC$_{\downarrow}$	61.43	96.37	70.74	31.48	45.64	60.78	45.97	40.06	59.22	74.82	58.03	83.38	60.81	39.80	5.65	14.27	25.21	15.04	9.77	21.61	35.36	22.25	82.65	73.06	30.00	29.52	44.07	50.99	38.64	71.45	89.91	66.56	29.43	42.38	55.95	42.58	12.60	21.27	31.94	21.94	43.54	60.09	72.91	58.85	16.83	29.32	44.35	30.16
+FC-GNN	50.51	95.34	85.52	15.38	25.44	39.87	26.90	47.45	64.73	77.93	63.37	79.49	**64.92**	48.23	4.19	10.14	18.85	11.06	11.51	24.10	38.01	24.54	54.32	72.08	71.04	28.82	40.08	45.80	46.44	65.09	89.13	74.92	10.61	16.89	26.35	17.95	4.67	8.27	13.59	8.84	46.06	61.17	72.78	60.00	**19.61**	**32.61**	**47.18**	**33.13**
+FC-GNN+MAGSAC$_{\uparrow}$	52.15	**97.19**	83.91	**46.44**	**60.47**	**72.82**	**59.91**	46.71	64.90	78.41	63.34	81.29	**66.12**	44.57	**8.96**	**19.20**	**31.08**	**19.75**	11.60	24.15	37.63	24.46	63.57	**74.51**	57.22	33.06	46.73	52.59	47.40	66.60	91.39	73.07	**34.97**	**46.71**	58.02	**46.57**	**17.34**	**26.81**	**37.32**	**27.16**	45.12	60.31	72.09	59.17	19.40	31.83	46.36	32.53
+FC-GNN+MAGSAC$_{\downarrow}$	52.91	**97.31**	82.60	**46.51**	**60.91**	**73.29**	**60.24**	47.56	65.14	78.39	63.69	82.11	**66.19**	42.62	**9.11**	**19.35**	31.00	**19.82**	11.47	24.19	37.98	24.55	68.94	**74.69**	48.61	33.31	46.21	52.01	45.04	67.16	**91.52**	71.84	**35.51**	**47.29**	**58.55**	**47.12**	**17.66**	**27.20**	**37.87**	**27.58**	45.13	60.21	71.94	59.09	19.02	31.59	46.15	32.26
+GMS	58.25	87.80	64.67	5.87	11.93	22.96	13.59	35.97	52.08	65.30	51.11	86.83	51.91	25.92	0.98	3.34	7.63	3.98	4.58	11.32	19.56	11.82	65.03	61.20	46.28	26.43	36.94	41.58	37.81	74.34	78.84	48.20	3.75	7.78	14.88	8.80	1.56	3.47	6.88	3.97	29.70	42.34	53.30	41.78	12.50	21.61	32.73	22.28
+GMS+MAGSAC$_{\uparrow}$	63.16	89.73	59.01	35.79	48.09	59.32	47.74	35.01	51.13	64.51	50.22	89.63	47.75	20.92	3.13	7.69	13.95	8.26	4.93	11.51	19.67	12.04	76.34	62.86	32.64	29.91	41.18	46.04	37.44	76.94	78.35	44.54	21.17	30.09	39.63	30.30	10.06	16.41	24.21	16.89	29.14	41.91	53.15	41.40	12.52	21.31	32.39	22.07
+GMS+MAGSAC$_{\downarrow}$	65.38	90.04	55.65	36.51	48.55	59.32	48.13	35.93	51.57	64.77	50.76	90.60	47.80	19.03	3.28	7.91	14.36	8.52	4.58	11.06	19.81	11.82	80.57	63.03	26.75	29.03	40.25	45.11	35.28	78.14	78.56	42.36	21.76	30.74	40.22	30.91	10.34	16.79	24.68	17.27	29.57	42.22	53.21	41.67	12.39	21.42	32.64	22.15
+MAGSAC$_{\uparrow}$	51.10	93.20	85.09	31.59	44.59	56.67	44.29	45.04	63.53	77.20	61.92	78.15	55.30	46.62	5.69	13.72	23.87	14.43	10.63	22.12	34.86	22.54	69.07	73.35	50.04	**36.61**	**50.11**	**55.76**	48.13	63.48	83.04	76.37	22.52	32.90	44.20	33.21	9.66	16.49	25.08	17.07	43.51	59.08	71.32	57.97	18.50	30.62	44.71	31.28
+MAGSAC$_{\downarrow}$	54.52	93.83	79.32	34.21	47.21	59.15	46.86	45.53	63.70	77.37	62.20	80.84	55.24	40.60	6.11	13.92	24.21	14.74	10.53	22.00	34.55	22.36	75.34	73.43	39.88	36.43	49.49	54.66	45.12	66.19	83.60	70.76	24.15	34.46	45.43	34.68	10.78	17.81	26.70	18.43	43.07	58.32	70.60	57.33	18.23	30.17	44.12	30.84
+**MOP**	44.18	89.57	92.50	4.00	8.59	18.00	10.20	45.66	63.52	76.96	62.05	70.50	52.42	61.97	0.72	2.34	6.85	3.30	10.50	22.76	36.09	23.12	50.12	66.08	76.18	31.61	43.16	48.38	49.83	61.15	81.01	79.03	3.45	7.30	14.71	8.49	1.36	3.03	6.45	3.61	43.65	58.42	69.53	57.20	18.25	30.60	44.80	31.22
+**MOP**+MAGSAC$_{\uparrow}$	52.29	95.02	83.43	42.85	56.16	68.76	55.92	46.43	63.91	77.05	62.46	81.18	58.70	43.71	8.45	17.37	27.37	17.73	10.78	22.93	35.63	23.12	69.68	71.61	47.93	36.41	49.60	54.92	47.22	66.65	85.80	71.36	31.07	42.48	53.82	42.46	14.88	23.41	33.29	23.86	43.18	58.03	69.29	56.83	18.22	30.18	44.22	30.87
+**MOP**+MAGSAC$_{\downarrow}$	55.34	95.45	78.37	**44.31**	**57.99**	**70.32**	**57.54**	46.12	63.80	77.29	62.40	83.37	58.72	38.59	8.06	17.10	27.41	17.52	10.70	22.79	35.76	23.08	76.07	72.01	37.87	36.37	49.65	55.28	44.79	68.66	86.12	67.24	31.86	43.33	54.50	43.23	**15.37**	**24.07**	34.13	**24.52**	43.18	57.95	69.23	56.79	18.22	30.29	44.21	30.91
+**MOP**+**MiHo**	39.79	85.29	**95.84**	1.04	2.68	7.84	3.85	**49.15**	**66.10**	**79.22**	**64.82**	59.34	45.24	74.68	0.06	0.43	2.32	0.94	11.79	24.56	38.04	24.80	46.99	63.77	78.60	21.46	30.68	35.35	41.52	55.98	76.16	**84.92**	0.94	2.61	7.30	3.62	0.48	1.36	3.45	1.76	**46.34**	61.20	72.34	59.96	**19.69**	**32.63**	**47.20**	**33.18**
+**MOP**+**MiHo**+MAGSAC$_{\uparrow}$	51.68	95.72	85.38	41.89	55.46	68.13	55.16	47.70	**65.44**	**78.89**	**64.01**	79.39	60.03	48.41	7.62	16.66	27.33	17.21	11.51	24.01	37.47	24.33	69.47	72.91	49.26	35.00	48.30	54.35	46.73	65.42	86.81	74.78	30.78	41.73	52.71	41.74	14.53	22.95	32.57	23.35	44.89	59.98	71.47	58.78	18.99	31.51	45.86	32.12
+**MOP**+**MiHo**+MAGSAC$_{\downarrow}$	54.83	96.24	80.13	42.87	56.90	69.90	56.56	47.43	65.31	78.58	63.77	81.78	60.02	42.67	8.30	17.53	28.72	18.18	11.58	23.95	37.47	24.33	75.64	73.28	39.36	36.17	48.99	54.34	44.71	67.63	87.20	70.19	31.71	42.90	53.89	42.83	15.17	23.63	33.39	24.07	44.95	59.96	71.35	58.75	18.66	31.11	45.52	31.77
+**MOP**+**MiHo**+**NCC**	39.79	84.49	95.05	0.93	2.46	7.34	3.58	**48.06**	**65.96**	**79.40**	**64.47**	59.34	45.04	75.17	0.05	0.37	2.30	0.91	**13.03**	**25.43**	39.32	**25.93**	46.99	65.10	81.47	21.70	30.49	35.03	42.17	55.98	75.17	83.85	0.77	2.36	7.00	3.38	0.45	1.31	3.38	1.71	**46.32**	61.12	72.14	59.86	**19.77**	**32.61**	**47.12**	**33.17**
+**MOP**+**MiHo**+**NCC**+MAGSAC$_{\uparrow}$	51.05	95.69	86.17	40.25	53.49	66.13	53.29	46.26	64.29	77.98	62.84	78.57	59.97	50.18	8.27	17.80	29.07	18.38	**12.64**	**25.19**	38.63	25.49	61.66	73.03	63.66	36.11	**49.96**	55.28	**51.26**	65.45	86.48	74.20	29.34	40.03	50.97	40.11	13.74	21.75	31.23	22.24	44.82	59.79	71.21	58.61	19.09	31.42	45.64	32.05
+**MOP**+**MiHo**+**NCC**+MAGSAC$_{\downarrow}$	53.11	96.11	82.65	41.73	54.90	67.34	54.66	**47.89**	65.32	78.40	63.87	80.50	60.02	45.40	8.11	17.64	29.14	18.30	11.44	23.94	37.53	24.30	66.99	73.47	55.16	**36.48**	**50.18**	**55.44**	49.32	67.01	86.83	70.91	30.32	41.17	52.10	41.20	14.17	22.49	32.26	22.97	44.09	59.13	70.61	57.94	18.56	30.79	44.95	31.43
+**MOP**+**NCC**	44.18	88.74	91.81	3.52	7.77	16.64	9.31	46.62	64.11	77.42	62.72	70.50	52.08	61.97	0.62	2.12	6.54	3.09	11.80	24.25	37.10	24.38	50.12	67.19	78.04	30.86	43.14	48.02	50.01	61.15	80.02	78.16	2.51	5.87	12.83	7.07	1.07	2.59	5.69	3.12	44.05	58.63	69.49	57.39	18.54	31.05	45.20	31.60
+**MOP**+**NCC**+MAGSAC$_{\uparrow}$	51.63	95.03	84.32	40.41	54.28	66.96	53.88	46.12	64.00	77.36	62.49	80.28	58.91	45.86	8.51	17.65	28.29	18.15	11.83	23.76	36.29	23.96	61.70	71.58	62.41	35.45	49.38	55.06	**50.57**	66.62	85.64	71.16	30.29	41.27	52.35	41.30	14.34	22.64	32.33	23.10	43.07	57.63	68.76	56.49	18.09	30.19	44.20	30.83
+**MOP**+**NCC**+MAGSAC$_{\downarrow}$	53.60	95.35	80.95	40.94	55.08	67.79	54.61	46.29	64.09	77.51	62.63	81.97	58.92	41.74	**8.84**	18.12	28.63	18.53	11.29	23.50	36.47	23.75	67.14	71.97	54.12	35.31	49.10	54.72	48.31	67.97	85.89	68.33	30.98	42.06	53.16	42.07	14.82	23.23	32.91	23.65	42.93	57.61	68.71	56.42	17.95	30.01	43.92	30.63
+MS^{2}DG-Net	65.84	81.23	58.09	0.08	0.44	2.18	0.90	35.95	52.98	67.55	52.16	68.15	43.36	57.34	0.00	0.08	0.51	0.20	8.28	18.11	29.71	18.70	70.84	58.69	44.68	0.00	0.00	0.00	11.17	68.76	68.35	59.78	0.02	0.16	1.37	0.52	0.02	0.11	0.75	0.29	34.95	49.48	61.63	48.69	13.58	23.95	36.97	24.83
+MS^{2}DG-Net+MAGSAC$_{\uparrow}$	72.88	91.21	52.22	28.43	41.89	55.65	41.99	34.92	52.09	66.50	51.17	85.11	56.79	35.62	4.84	11.05	19.72	11.87	8.47	18.32	30.05	18.94	85.42	71.66	27.93	25.75	40.80	47.79	35.57	77.23	80.26	51.84	21.17	30.66	41.35	31.06	9.04	15.43	23.54	16.00	34.04	48.58	60.93	47.85	13.30	23.55	36.25	24.37
+MS^{2}DG-Net+MAGSAC$_{\downarrow}$	74.47	91.62	49.24	29.41	42.57	56.40	42.79	34.04	51.49	66.53	50.69	86.68	56.73	31.66	4.89	10.93	19.15	11.66	7.98	17.63	28.94	18.18	**87.76**	71.92	23.30	26.05	40.80	47.82	34.49	78.55	80.58	48.82	22.32	31.99	42.75	32.36	9.50	16.16	24.68	16.78	33.48	48.20	60.70	47.46	13.05	23.19	35.86	24.04
+**NCC**	0.00	52.70	**98.00**	0.06	0.12	0.73	0.30	44.60	61.83	75.41	60.61	0.00	24.93	**99.86**	0.00	0.05	0.38	0.14	9.92	20.95	33.05	21.31	0.00	43.61	**89.65**	0.00	0.42	0.71	22.69	0.00	38.65	**97.92**	0.01	0.08	0.55	0.21	0.03	0.12	0.63	0.26	41.04	55.73	67.80	54.86	17.64	29.25	42.84	29.91
+**NCC**+MAGSAC$_{\uparrow}$	51.75	92.67	83.04	30.58	42.74	54.74	42.69	44.66	62.76	76.91	61.45	78.30	55.18	46.59	5.52	12.49	22.52	13.51	10.33	21.86	34.76	22.32	69.76	74.43	48.27	36.04	49.10	54.90	47.08	64.41	82.02	73.18	21.02	30.85	41.65	31.17	8.98	15.24	23.52	15.91	41.64	56.95	69.49	56.02	17.53	29.11	42.79	29.81
+**NCC**+MAGSAC$_{\downarrow}$	54.72	93.27	78.06	31.87	44.26	56.03	44.05	43.09	61.75	76.33	60.39	80.79	55.39	41.19	5.54	12.82	22.73	13.70	10.13	21.26	33.79	21.73	75.90	74.34	38.23	35.33	48.33	53.94	43.96	66.88	82.55	68.09	22.18	32.06	42.64	32.29	9.61	16.19	24.67	16.82	40.74	56.02	68.67	55.14	17.29	28.60	42.13	29.34
+NCMNet	48.30	91.24	88.72	3.82	8.66	19.14	10.54	40.59	60.28	75.83	58.90	76.16	58.45	54.53	1.23	3.92	10.32	5.16	9.29	20.31	32.97	20.86	50.91	68.41	76.14	19.32	29.35	35.00	39.95	62.07	86.37	84.67	9.95	18.04	30.21	19.40	2.71	5.82	11.40	6.65	45.09	61.48	74.11	60.22	17.65	30.44	45.84	31.31
+NCMNet+MAGSAC$_{\uparrow}$	55.23	96.03	79.74	30.40	44.46	58.53	44.46	40.44	59.76	75.27	58.49	82.52	61.43	41.22	4.09	11.43	21.51	12.34	9.01	20.26	33.34	20.87	69.57	74.32	49.00	35.76	49.62	**55.30**	47.42	67.16	90.86	75.22	27.29	40.00	54.13	40.47	11.44	19.62	29.80	20.29	44.42	60.90	73.72	59.68	17.34	29.88	44.95	30.72
+NCMNet+MAGSAC$_{\downarrow}$	58.12	96.44	74.78	31.28	45.29	59.33	45.30	40.53	59.69	75.23	58.48	84.40	61.38	36.74	4.63	11.27	21.37	12.42	8.41	19.17	32.13	19.90	75.66	**74.98**	39.33	**36.44**	49.62	55.03	45.10	69.16	91.20	70.61	28.16	41.11	55.17	41.48	11.91	20.22	30.54	20.89	44.00	60.57	73.58	59.39	17.11	29.51	44.70	30.44
+OANet	66.81	94.67	63.81	16.39	28.00	41.61	28.67	36.23	55.57	71.96	54.59	80.43	60.92	50.75	4.11	11.15	21.40	12.22	9.87	21.51	35.19	22.19	78.02	68.40	41.67	15.47	25.53	30.97	28.41	73.00	89.43	66.58	19.67	31.15	44.22	31.68	6.72	13.11	22.20	14.01	40.75	57.55	70.96	56.42	15.01	27.04	41.91	27.99
+OANet+MAGSAC$_{\uparrow}$	69.20	96.50	59.90	25.63	40.60	56.73	40.99	35.97	55.58	71.98	54.51	84.85	62.94	38.99	5.65	14.60	26.49	15.58	10.48	22.68	36.12	23.09	85.81	72.54	26.65	27.55	42.70	49.47	36.59	74.99	**91.46**	61.49	26.15	39.38	53.30	39.61	9.96	17.96	28.48	18.80	40.38	57.30	70.65	56.11	14.86	26.60	41.40	27.62
+OANet+MAGSAC$_{\downarrow}$	70.91	**96.87**	56.68	26.54	41.36	57.80	41.90	36.21	55.82	72.12	54.72	86.33	62.92	34.98	6.15	14.60	26.17	15.64	9.78	21.43	35.19	22.14	**88.20**	72.87	22.06	27.97	42.54	49.12	35.43	76.24	**91.70**	58.31	26.95	40.38	54.34	40.56	10.47	18.74	29.26	19.49	40.58	57.37	70.67	56.21	14.94	26.80	41.63	27.79