Pipeline	MegaDepth											ScanNet										
	Filtered	Precision	Recall	$\text{AUC}^P_{@5}$	$\text{AUC}^P_{@10}$	$\text{AUC}^P_{@20}$	AUC^P_z	$\text{AUC}^F_{@5}$	$\text{AUC}^F_{@10}$	$\text{AUC}^F_{@20}$	AUC^F_z	Filtered	Precision	Recall	$\text{AUC}^P_{@5}$	$\text{AUC}^P_{@10}$	$\text{AUC}^P_{@20}$	AUC^P_z	$\text{AUC}^F_{@5}$	$\text{AUC}^F_{@10}$	$\text{AUC}^F_{@20}$	AUC^F_z
ALIKED+LightGlue	0.00	92.94	**90.74**	40.94	57.17	71.09	56.40	46.37	63.86	77.07	62.43	0.00	66.91	**92.41**	4.84	11.48	21.29	12.54	12.78	26.20	40.73	26.57
+ACNe	39.55	93.59	60.93	20.23	34.04	50.21	34.83	32.28	51.00	67.70	50.33	42.99	66.09	53.91	2.92	8.63	18.42	9.99	7.15	17.38	30.08	18.14
+ACNe+MAGSAC↑	47.09	95.46	54.68	24.32	39.25	54.93	39.50	33.00	52.44	68.88	51.44	58.28	67.64	41.12	4.86	11.32	21.24	12.48	8.00	18.48	31.24	19.24
+ACNe+MAGSAC↓	51.47	95.96	50.48	24.46	39.55	56.01	40.01	34.96	53.61	69.96	52.84	62.07	67.68	37.28	4.68	10.76	21.27	12.23	8.19	17.95	31.06	19.07
+AdaLAM	0.00	92.94	**90.74**	40.94	57.17	71.09	56.40	46.37	63.86	77.07	62.43	0.00	64.89	**92.41**	4.84	11.48	21.29	12.54	12.78	26.20	40.73	26.57
+AdaLAM+MAGSAC↑	15.79	95.61	87.02	49.17	64.57	76.58	63.44	45.63	63.60	77.59	62.27	33.07	67.88	65.32	8.47	18.50	30.52	19.16	12.60	26.30	40.53	26.47
+AdaLAM+MAGSAC↓	23.56	96.17	79.53	49.53	64.59	76.64	63.59	47.53	65.52	78.80	63.95	40.40	67.89	57.72	**9.19**	19.05	**30.97**	19.74	12.79	26.39	41.15	26.78
+CC	17.27	86.12	82.93	29.11	43.20	57.39	43.23	38.42	55.37	68.71	54.16	34.63	53.58	59.78	3.83	9.71	18.55	10.70	8.49	18.23	28.85	18.52
+CC+MAGSAC↑	28.40	88.11	72.86	34.56	48.96	61.61	48.38	38.95	56.38	69.45	54.93	45.30	55.34	43.62	5.62	11.59	20.59	12.60	8.90	19.02	29.45	19.12
+CC+MAGSAC↓	35.75	88.64	66.74	35.18	49.19	61.74	48.70	39.98	56.93	69.93	55.61	59.28	54.68	38.85	5.42	11.64	20.50	12.52	8.52	18.18	29.05	18.58
+CLNet	14.71	93.37	85.54	20.53	34.12	50.49	35.04	35.87	54.44	69.96	53.39	47.13	67.68	49.92	1.96	4.71	11.23	5.97	6.39	15.45	26.74	16.19
+CLNet+MAGSAC↑	26.33	95.33	75.94	26.48	40.88	56.77	41.38	36.83	55.86	71.71	54.80	60.28	64.06	39.14	2.82	7.50	15.38	8.57	6.70	15.47	26.01	16.06
+CLNet+MAGSAC↓	32.63	95.84	69.90	27.63	41.74	57.11	42.16	38.61	57.09	72.07	55.92	63.92	64.13	35.39	3.04	8.23	16.31	9.19	6.16	14.73	25.27	15.39
+ConvMatch	66.42	92.97	33.65	14.03	25.57	40.87	26.82	23.99	41.33	58.98	41.43	65.94	67.58	33.40	1.30	5.09	13.32	6.57	5.31	13.02	24.53	14.29
+ConvMatch+MAGSAC↑	70.20	93.98	30.58	15.81	27.24	43.14	28.73	25.14	42.59	60.31	42.68	75.08	64.26	25.88	2.12	6.84	14.43	7.80	5.61	13.60	24.50	14.57
+ConvMatch+MAGSAC↓	72.56	94.39	28.31	16.92	29.22	44.25	30.13	24.73	42.88	60.47	42.69	77.14	64.36	23.71	2.66	7.08	14.49	8.08	5.20	12.70	23.78	13.89
+DeMatch	64.54	93.35	35.59	11.90	23.61	38.97	24.82	23.41	41.14	59.07	41.21	67.90	66.19	30.66	1.07	3.25	9.02	4.45	3.62	10.00	19.32	10.98
+DeMatch+MAGSAC↑	68.46	94.63	32.34	14.62	26.23	40.49	27.11	23.73	41.95	60.44	42.04	76.04	63.79	24.27	1.76	4.65	10.48	5.63	3.13	9.25	19.70	10.69
+DeMatch+MAGSAC↓	70.94	95.04	29.96	15.03	26.41	40.19	27.26	23.03	40.93	59.82	41.28	78.03	63.96	22.26	1.92	4.98	10.62	5.84	3.79	9.91	19.26	10.90
+FC-GNN	13.95	**98.81**	90.52	**50.85**	**65.54**	**77.46**	**64.81**	**43.98**	**66.80**	79.35	**65.03**	32.14	**93.96**	65.87	7.23	15.99	26.74	16.65	12.24	25.16	38.74	25.38
+FC-GNN+MAGSAC↑	15.88	**97.16**	89.02	**52.94**	**67.46**	**78.86**	**66.42**	**50.15**	**67.26**	**79.52**	**65.64**	40.13	**70.15**	59.98	8.21	18.05	29.46	18.58	12.67	25.62	39.66	26.05
+FC-GNN+MAGSAC↓	17.51	**97.29**	87.42	**53.12**	**67.71**	**79.10**	**66.64**	**49.01**	66.53	79.32	64.95	42.72	**70.20**	57.23	8.60	18.22	29.63	18.82	12.80	25.66	39.30	25.92
+GMS	20.28	90.42	79.96	37.25	52.99	66.68	52.31	42.44	58.21	70.48	57.04	53.21	64.58	47.08	2.72	7.93	16.01	8.89	7.03	14.82	25.08	15.64
+GMS+MAGSAC↑	31.13	91.45	70.87	45.01	58.84	70.17	58.01	42.47	58.99	71.53	57.67	63.30	61.66	37.05	4.05	9.85	18.36	10.76	6.95	14.95	25.40	15.77
+GMS+MAGSAC↓	36.96	91.91	65.28	44.31	58.97	70.63	57.97	42.27	58.69	71.39	57.45	66.96	61.74	33.31	4.03	10.24	18.73	11.00	7.41	15.58	25.91	16.30
+MAGSAC↑	15.79	95.61	87.02	49.17	64.57	76.58	63.44	45.63	63.60	77.59	62.27	33.07	67.88	65.32	8.47	18.50	30.52	19.16	12.60	26.30	40.53	26.47
+MAGSAC↓	23.56	96.17	79.53	49.53	64.59	76.64	63.59	47.53	65.52	78.80	63.95	40.40	67.89	57.72	**9.19**	19.05	**30.97**	19.74	12.79	26.39	41.15	26.78
+MS²DG-Net	70.93	93.79	29.20	22.27	36.25	53.20	37.24	23.05	38.06	54.36	38.49	59.22	67.53	35.79	2.26	5.53	13.03	6.94	4.46	10.71	19.77	11.65
+MS²DG-Net+MAGSAC↑	74.52	95.59	26.15	23.48	37.00	53.04	38.04	24.08	38.03	55.36	38.86	69.35	68.00	28.03	3.22	7.04	14.43	8.25	4.35	9.93	19.19	11.15
+MS²DG-Net+MAGSAC↓	76.85	95.99	24.17	24.16	38.29	53.76	38.74	22.49	38.85	56.71	39.35	71.37	67.95	26.04	2.46	6.65	14.13	7.74	4.58	10.49	18.91	11.33
+NCC	0.00	78.13	82.30	14.50	27.55	43.78	28.61	32.99	47.54	61.64	47.39	0.00	60.81	**88.96**	2.04	5.85	13.89	7.26	10.82	22.64	36.37	23.28
+NCC+MAGSAC↑	36.53	89.49	62.34	28.61	39.62	52.27	40.17	33.01	48.43	63.06	48.17	40.07	66.86	59.09	6.90	15.18	25.56	15.88	11.30	22.89	36.85	23.68
+NCC+MAGSAC↓	42.34	89.97	57.03	29.55	40.46	52.59	40.87	34.43	49.29	63.44	49.06	45.67	66.79	52.98	6.89	15.51	26.07	16.16	11.09	23.07	36.47	23.54
+NCMNet	13.27	93.43	87.04	22.55	36.29	52.45	37.10	36.29	55.67	70.99	54.32	44.35	67.62	52.84	2.04	5.44	12.04	6.50	7.04	15.88	27.77	16.90
+NCMNet+MAGSAC↑	25.16	95.36	77.16	27.54	42.24	57.59	42.46	36.33	54.95	71.06	54.11	58.17	64.38	41.39	3.30	8.08	15.82	9.06	6.65	14.77	26.02	15.81
+NCMNet+MAGSAC↓	31.60	95.88	71.02	27.80	43.13	58.86	43.26	37.89	56.77	72.35	55.67	62.13	64.43	37.28	3.29	7.71	15.29	8.76	6.81	16.02	27.08	16.64
+OANet	**80.75**	94.33	10.37	4.01	9.55	20.89	11.48	9.65	21.59	37.77	23.01	**87.99**	66.18	10.56	0.66	1.80	5.90	2.79	1.14	4.07	10.80	5.34
+OANet+MAGSAC↑	90.64	94.67	9.65	4.69	10.71	21.60	12.34	10.90	23.42	39.12	24.48	90.92	51.14	7.23	0.70	1.82	5.72	2.74	1.05	4.01	10.44	5.28
+OANet+MAGSAC↓	91.13	94.92	9.18	5.38	11.71	23.26	13.45	10.22	21.80	38.44	23.49	**92.91**	53.36	6.90	0.58	1.49	5.02	2.57	1.63	4.55	11.27	5.82
+MOP$_{0.5K}$+MiHo	0.70	92.93	**99.16**	41.18	57.72	71.80	56.90	47.15	64.50	77.64	63.10	11.51	64.79	86.99	5.47	12.78	22.88	13.71	12.77	25.91	40.00	26.23
+MOP$_{0.5K}$+MiHo+MAGSAC↑	15.97	95.57	86.80	49.20	64.37	76.52	63.36	46.59	64.01	77.60	62.74	37.60	67.67	63.07	8.59	18.30	30.14	19.01	12.78	26.29	40.21	26.43
+MOP$_{0.5K}$+MiHo+MAGSAC↓	23.70	96.11	79.37	49.46	64.40	76.50	63.63	47.43	65.49	78.82	63.91	44.80	67.76	55.71	8.88	18.77	30.47	19.37	12.86	26.30	40.71	26.59
+MOP$_{0.5K}$+MiHo+NCC	0.70	88.01	94.38	19.13	33.82	50.22	34.39	47.25	65.20	78.72	63.73	11.51	62.26	86.56	2.71	7.19	16.57	8.82	13.43	27.30	41.13	27.29
+MOP$_{0.5K}$+MiHo+NCC+MAGSAC↑	21.49	96.19	82.20	44.23	58.33	71.32	57.96	47.98	65.59	78.87	64.15	39.76	67.26	61.56	8.93	19.02	30.44	19.46	12.80	26.06	39.77	26.21
+MOP$_{0.5K}$+MiHo+NCC+MAGSAC↓	25.56	96.54	78.29	44.67	59.50	72.90	59.02	48.01	65.75	78.73	64.16	44.81	67.41	56.43	8.46	18.91	30.38	19.25	12.99	26.24	40.23	26.49
+MOP$_{1.0K}$+MiHo	0.64	92.99	**99.29**	41.02	57.51	71.67	56.73	46.99	64.55	77.62	63.05	11.42	64.76	86.89	5.23	12.71	22.69	13.54	12.96	26.11	39.99	26.35
+MOP$_{1.0K}$+MiHo+MAGSAC↑	15.94	95.65	86.91	49.29	64.42	76.41	63.38	46.27	63.76	77.44	62.49	37.55	67.70	63.16	8.47	18.39	30.31	19.06	12.69	26.31	40.43	26.54
+MOP$_{1.0K}$+MiHo+MAGSAC↓	23.96	96.19	79.50	49.60	64.41	76.41	63.47	47.39	65.43	78.80	63.88	44.73	67.79	55.77	8.15	18.88	30.28	19.44	12.46	25.91	40.06	26.20
+MOP$_{1.0K}$+MiHo+NCC	0.64	88.12	94.60	19.22	33.88	50.27	34.46	47.92	65.66	78.92	64.17	11.42	62.32	85.76	2.41	6.46	16.11	8.10	13.46	**27.66**	**41.72**	**27.82**
+MOP$_{1.0K}$+MiHo+NCC+MAGSAC↑	21.44	96.30	82.41	44.61	58.44	71.13	58.06	47.79	65.53	78.87	64.06	39.86	67.23	61.01	8.53	18.66	30.04	19.08	12.53	25.91	39.79	26.08
+MOP$_{1.0K}$+MiHo+NCC+MAGSAC↓	25.52	96.68	78.51	45.15	59.58	72.75	59.16	48.13	66.22	78.80	64.38	44.87	67.37	55.87	8.91	**19.84**	**31.36**	**20.03**	12.96	26.52	40.52	26.67
+MOP$_{1.5K}$+MiHo	0.61	92.96	**99.29**	41.08	57.60	71.55	56.71	47.15	64.64	77.80	63.20	11.15	64.71	87.10	5.20	12.73	22.68	13.54	12.94	26.16	40.00	26.44
+MOP$_{1.5K}$+MiHo+MAGSAC↑	15.91	95.63	86.92	49.13	64.36	76.47	63.32	46.06	63.58	77.45	62.36	37.50	67.59	62.98	8.40	18.41	30.29	19.03	12.27	26.01	40.36	26.21
+MOP$_{1.5K}$+MiHo+MAGSAC↓	23.66	96.17	79.47	49.54	64.41	76.53	63.51	47.27	65.28	78.78	63.78	44.61	67.63	55.68	8.98	18.68	30.05	19.07	12.15	26.01	40.07	26.14
+MOP$_{1.5K}$+MiHo+NCC	0.61	88.07	94.59	19.14	33.86	50.26	34.42	47.10	65.00	78.48	63.53	11.15	62.23	85.75	2.54	6.57	15.98	8.46	**13.75**	**27.89**	**42.04**	**27.89**
+MOP$_{1.5K}$+MiHo+NCC+MAGSAC↑	21.41	96.28	82.41	44.68	58.90	71.67	58.41	48.03	66.16	**79.40**	64.15	39.76	67.16	61.07	8.80	18.81	30.19	19.27	12.29	25.76	39.61	25.92
+MOP$_{1.5K}$+MiHo+NCC+MAGSAC↓	25.51	96.64	78.49	45.30	59.80	72.95	59.35	47.19	65.12	78.20	63.60	44.73	67.19	55.75	8.74	**19.38**	30.69	19.61	12.24	26.54	40.74	26.84
+MOP$_{2.0K}$+MiHo	0.62	92.97	99.29	41.13	57.44	71.59	56.72	46.87	64.46	77.53	62.95	11.16	64.72	87.07	5.30	12.75	22.73	13.60	12.55	25.67	39.61	25.94
+MOP$_{2.0K}$+MiHo+MAGSAC↑	15.89	95.64	86.95	49.21	64.34	76.49	63.35	46.28	63.80	77.61	62.56	37.51	67.62	62.98	8.54	18.58	30.64	19.25	12.17	25.96	40.42	26.18
+MOP$_{2.0K}$+MiHo+MAGSAC↓	23.66	96.18	79.49	49.57	64.41	76.42	63.47	47.70	65.51	78.83	64.01	44.58	67.65	55.69	8.88	18.78	30.46	19.37	12.42	25.74	40.15	26.10
+MOP$_{2.0K}$+MiHo+NCC	0.62	88.05	94.50	19.29	33.83	50.16	34.43	47.22	65.07	78.47	63.59	11.16	62.24	85.77	2.57	6.98	15.95	8.50	13.41	**27.43**	**42.00**	**27.61**
+MOP$_{2.0K}$+MiHo+NCC+MAGSAC↑	21.46	96.24	82.26	44.62	58.78	71.65	58.35	47.90	65.97	79.25	64.37	39.75	67.17	61.07	8.54	18.42	29.64	18.87	12.31	25.63	39.27	25.74
+MOP$_{2.0K}$+MiHo+NCC+MAGSAC↓	25.60	96.60	78.37	44.82	59.14	72.40	58.78	47.73	65.75	78.92	63.93	44.76	67.18	55.79	9.08	**19.57**	30.79	**19.81**	13.37	26.82	40.51	26.90
+MOP$_{0.5K}$	1.30	93.00	98.87	41.48	57.73	71.62	56.94	46.61	64.08	77.63	62.77	18.41	64.26	81.42	5.45	12.76	22.86	13.69	12.29	25.29	39.13	25.57
+MOP$_{0.5K}$+MAGSAC↑	16.33	95.57	86.61	48.29	63.74	75.97	62.67	46.60	64.16	77.91	62.89	41.35	66.73	59.98	8.08	18.18	29.91	18.78	12.02	26.02	40.30	26.12
+MOP$_{0.5K}$+MAGSAC↓	24.06	96.11	79.18	48.91	64.18	76.18	63.09	47.29	64.91	78.38	63.53	48.22	66.68	52.76	8.49	18.24	29.46	18.73	12.71	25.78	39.80	26.09
+MOP$_{0.5K}$+NCC	1.30	87.81	93.70	19.33	32.60	49.10	33.33	47.92	64.83	78.33	63.69	18.41	61.64	79.73	2.53	6.55	15.06	8.10	13.30	26.52	40.04	26.17
+MOP$_{1.0K}$	1.23	92.99	98.92	41.47	57.56	71.51	56.85	46.47	63.71	77.13	62.44	17.88	64.28	81.88	5.27	12.66	23.07	13.67	12.18	25.42	39.22	25.61
+MOP$_{1.0K}$+MAGSAC↑	16.26	95.58	86.70	48.28	63.65	76.07	62.67	46.66	63.98	77.74	62.79	41.22	66.72	60.06	8.33	17.95	29.62	18.63	11.75	25.60	39.71	25.69
+MOP$_{1.0K}$+MAGSAC↓	24.01	96.14	79.25	48.67	64.00	76.15	62.94	47.22	65.44	78.75	63.80	48.07	66.76	52.92	8.47	18.20	29.75	18.81	12.98	25.88	39.76	26.22
+MOP$_{1.0K}$+NCC	1.23	87.78	93.73	18.57	32.74	48.58	33.30	47.64	65.02	78.35	63.67	17.88	61.66	80.22	2.28	6.58	14.24	7.70	12.95	25.90	39.46	26.11
+MOP$_{1.0K}$+NCC+MAGSAC↑	22.10	96.00	81.51	42.75	57.06	70.37	56.73	48.89	**66.84**	**79.78**	**65.17**	43.14	66.40	58.71	8.01	17.41	28.31	17.79	11.97	24.71	38.92	25.20
+MOP$_{1.0K}$+NCC+MAGSAC↓	26.30	96.37	77.52	44.46	58.56	71.29	58.10	46.41	65.05	77.27	62.82	47.90	66.32	53.70	7.98	17.22	28.54	17.92	11.50	25.35	39.37	25.34
+MOP$_{1.5K}$	1.26	93.00	98.91	41.60	57.65	71.50	56.92	47.15	64.05	77.27	62.82	17.69	64.31	82.16	5.35	12.90	23.31	14.04	12.25	25.77	39.55	25.86
+MOP$_{1.5K}$+MAGSAC↑	16.28	95.59	86.67	48.65	64.04	76.27	62.99	46.07	63.62	77.38	62.38	41.05	66.70	60.03	8.11	17.85	29.46	18.41	12.00	25.02	38.89	25.34
+MOP$_{1.5K}$+MAGSAC↓	24.04	**96.14**	79.23	49.06	64.32	76.14	63.18	47.16	64.78	78.18	63.28	47.96	66.77	53.18	8.30	18.03	29.74	18.69	12.44	25.37	39.15	25.59
+MOP$_{1.5K}$+NCC	1.26	87.79	93.73	18.50	32.51	48.49	33.17	47.40	65.18	78.58	63.72	17.69	61.72	80.53	2.56	6.92	15.16	8.22	**13.84**	26.82	40.15	26.39
+MOP$_{1.5K}$+NCC+MAGSAC↑	22.15	95.99	81.48	42.42	57.16	70.65	56.74	47.55	65.86	79.13	64.18	43.03	66.46	59.09	7.93	17.83	29.30	18.35	12.31	25.20	39.89	26.04
+MOP$_{1.5K}$+NCC+MAGSAC↓	26.34	96.34	77.47	43.73	57.60	70.50	57.27	45.66	64.55	78.69	62.94	47.82	66.48	53.14	7.98	17.59	28.94	18.17	12.40	26.10	40.20	26.13
+MOP$_{2.0K}$	1.24	92.99	98.92	41.59	57.84	71.66	57.03	47.62	64.44	77.40	63.15	17.71	64.28	82.06	5.06	12.59	23.06	13.71	11.96	25.53	39.68	25.72
+MOP$_{2.0K}$+MAGSAC↑	16.25	95.59	86.71	48.64	63.98	76.26	62.96	45.64	63.56	77.39	62.19	41.14	66.69	60.19	7.88	17.52	29.23	18.31	12.03	24.93	39.12	25.36
+MOP$_{2.0K}$+MAGSAC↓	24.01	**96.14**	79.26	49.08	64.33	76.31	63.25	47.58	65.16	78.44	63.73	47.98	66.81	53.10	8.27	17.83	29.48	18.53	12.18	25.43	39.31	25.64
+MOP$_{2.0K}$+NCC	1.24	87.79	93.72	18.51	32.53	48.55	33.20	46.52	64.72	78.31	63.18	17.71	61.70	80.44	2.43	6.62	14.85	7.96	**13.81**	26.63	40.03	26.82
+MOP$_{2.0K}$+NCC+MAGSAC↑	22.12	95.99	81.47	42.66	57.13	70.47	56.75	46.80	65.61	79.08	63.83	43.08	66.38	58.77	7.90	17.71	29.26	18.29	12.04	25.46	39.36	25.69
+MOP$_{2.0K}$+NCC+MAGSAC↓	26.34	96.38	77.47	43.94	57.62	70.30	57.30	46.63	65.07	78.95	63.55	47.79	66.37	53.80	7.94	17.79	29.26	18.29	12.31	25.95	39.64	25.94