

Python 3.6.8 |Anaconda custom (64-bit)| (default, Feb 21 2019, 18:30:04) [MSC
v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>

RESTART: C:\ObjDetAPI\models-master\research\object_detection\0
Tracker_Evaluator.py

True

Frame: 2 Total Penalty: 0.1365887445887446
 GT_area: 25038
 ST_area: 28768
 Overlap_area: 24931
 IOU: 0.8634112554112554
 Centre Distance: 1.5
 Category: True Positive

Frame: 3 Total Penalty: 0.37858569580825674
 GT_area: 23868
 ST_area: 31488
 Overlap_area: 23868
 IOU: 0.7580030487804879
 Centre Distance: 2.5
 Category: True Positive

Frame: 4 Total Penalty: 0.6232232195660629
 GT_area: 25038
 ST_area: 33147
 Overlap_area: 25038
 IOU: 0.7553624762421939
 Centre Distance: 5.0
 Category: True Positive

Frame: 5 Total Penalty: 0.9029167061561012
 GT_area: 24440
 ST_area: 33930
 Overlap_area: 24440
 IOU: 0.7203065134099617
 Centre Distance: 0.0
 Category: True Positive

Frame: 6 Total Penalty: 1.227895585345062
 GT_area: 23970
 ST_area: 35510
 Overlap_area: 23970
 IOU: 0.6750211208110392
 Centre Distance: 2.0
 Category: True Positive

Frame: 7 Total Penalty: 1.572737870085045
 GT_area: 24592
 ST_area: 37536
 Overlap_area: 24592
 IOU: 0.6551577152600171
 Centre Distance: 1.0
 Category: True Positive

Frame: 8 Total Penalty: 1.9165232264774807
 GT_area: 24360
 ST_area: 37122
 Overlap_area: 24360
 IOU: 0.6562146436075642
 Centre Distance: 1.5
 Category: True Positive

Frame: 9 Total Penalty: 2.2463572842702035
 GT_area: 24514
 ST_area: 36579
 Overlap_area: 24514
 IOU: 0.6701659422072774
 Centre Distance: 2.0
 Category: True Positive

Frame: 10 Total Penalty: 2.6026280944810805
 GT_area: 23200
 ST_area: 36040
 Overlap_area: 23200
 IOU: 0.6437291897891232
 Centre Distance: 3.0
 Category: True Positive

Frame: 11 Total Penalty: 2.972863249640535
 GT_area: 23460
 ST_area: 37252
 Overlap_area: 23460
 IOU: 0.6297648448405455
 Centre Distance: 2.5
 Category: True Positive

Frame: 12 Total Penalty: 3.3473155674855075
 GT_area: 23129
 ST_area: 36974
 Overlap_area: 23129
 IOU: 0.6255476821550279
 Centre Distance: 2.0
 Category: True Positive

Frame: 13 Total Penalty: 3.698916383047308
 GT_area: 23533
 ST_area: 36294
 Overlap_area: 23533
 IOU: 0.6483991844381991
 Centre Distance: 1.5
 Category: True Positive

Frame: 14 Total Penalty: 4.056936992514438
 GT_area: 23300
 ST_area: 36294
 Overlap_area: 23300
 IOU: 0.6419793905328705

Centre Distance: 2.0
Category: True Positive

Frame: 15 Total Penalty: 4.446874099432677
 GT_area: 22310
 ST_area: 36570
 Overlap_area: 22310
 IOU: 0.610062893081761
 Centre Distance: 3.5
 Category: True Positive

Frame: 16 Total Penalty: 4.865049839110618
 GT_area: 20884
 ST_area: 35894
 Overlap_area: 20884
 IOU: 0.5818242603220594
 Centre Distance: 3.5
 Category: True Positive

Frame: 17 Total Penalty: 5.23314938662193
 GT_area: 22344
 ST_area: 35360
 Overlap_area: 22344
 IOU: 0.6319004524886878
 Centre Distance: 3.0
 Category: True Positive

Frame: 18 Total Penalty: 5.596479793411511
 GT_area: 21755
 ST_area: 34170
 Overlap_area: 21755
 IOU: 0.6366695932104185
 Centre Distance: 2.5
 Category: True Positive

Frame: 19 Total Penalty: 6.0004013620389625
 GT_area: 20520
 ST_area: 34425
 Overlap_area: 20520
 IOU: 0.596078431372549
 Centre Distance: 3.5
 Category: True Positive

Frame: 20 Total Penalty: 6.394042216818375
 GT_area: 21111
 ST_area: 34816
 Overlap_area: 21111
 IOU: 0.6063591452205882
 Centre Distance: 3.5
 Category: True Positive

Frame: 21 Total Penalty: 6.81509933289665
 GT_area: 20384
 ST_area: 35209

Overlap_area: 20384
IOU: 0.5789428839217245
Centre Distance: 1.0
Category: True Positive

Frame: 22 Total Penalty: 7.22947841786397
GT_area: 20608
ST_area: 35190
Overlap_area: 20608
IOU: 0.5856209150326798
Centre Distance: 1.0
Category: True Positive

Frame: 23 Total Penalty: 7.623643312737583
GT_area: 20516
ST_area: 33864
Overlap_area: 20516
IOU: 0.6058351051263879
Centre Distance: 3.0
Category: True Positive

Frame: 24 Total Penalty: 8.01575602132353
GT_area: 21056
ST_area: 34638
Overlap_area: 21056
IOU: 0.607887291414054
Centre Distance: 2.0
Category: True Positive

Frame: 25 Total Penalty: 8.387198626275712
GT_area: 21755
ST_area: 34611
Overlap_area: 21755
IOU: 0.6285573950478172
Centre Distance: 2.0
Category: True Positive

Frame: 26 Total Penalty: 8.77429540046926
GT_area: 21280
ST_area: 34720
Overlap_area: 21280
IOU: 0.6129032258064516
Centre Distance: 1.5
Category: True Positive

Frame: 27 Total Penalty: 9.157819677610558
GT_area: 21470
ST_area: 34827
Overlap_area: 21470
IOU: 0.6164757228587016
Centre Distance: 2.0
Category: True Positive

Frame: 28 Total Penalty: 9.512168009199907

GT_area: 22213
ST_area: 34404
Overlap_area: 22213
IOU: 0.6456516684106499
Centre Distance: 3.0
Category: True Positive

Frame: 29 Total Penalty: 9.91150060096854
 GT_area: 21600
 ST_area: 35960
 Overlap_area: 21600
 IOU: 0.6006674082313682
 Centre Distance: 1.5
 Category: True Positive

Frame: 30 Total Penalty: 10.277659032700742
 GT_area: 22116
 ST_area: 34892
 Overlap_area: 22116
 IOU: 0.6338415682677978
 Centre Distance: 2.0
 Category: True Positive

Frame: 31 Total Penalty: 10.646115787929684
 GT_area: 22344
 ST_area: 35380
 Overlap_area: 22344
 IOU: 0.631543244771057
 Centre Distance: 1.5
 Category: True Positive

Frame: 32 Total Penalty: 11.042127418388318
 GT_area: 22019
 ST_area: 36456
 Overlap_area: 22019
 IOU: 0.6039883695413649
 Centre Distance: 1.0
 Category: True Positive

Frame: 33 Total Penalty: 11.426383978155082
 GT_area: 22176
 ST_area: 36015
 Overlap_area: 22176
 IOU: 0.6157434402332361
 Centre Distance: 2.0
 Category: True Positive

Frame: 34 Total Penalty: 11.785898148195567
 GT_area: 23730
 ST_area: 37050
 Overlap_area: 23730
 IOU: 0.6404858299595142
 Centre Distance: 3.5
 Category: True Positive

Frame: 35 Total Penalty: 12.101231821145134
 GT_area: 25536
 ST_area: 37297
 Overlap_area: 25536
 IOU: 0.6846663270504331
 Centre Distance: 5.5
 Category: True Positive

Frame: 36 Total Penalty: 12.453083672996986
 GT_area: 23625
 ST_area: 36450
 Overlap_area: 23625
 IOU: 0.6481481481481481
 Centre Distance: 8.5
 Category: True Positive

Frame: 37 Total Penalty: 12.752259883565602
 GT_area: 24416
 ST_area: 34839
 Overlap_area: 24416
 IOU: 0.7008237894313843
 Centre Distance: 4.0
 Category: True Positive

Frame: 38 Total Penalty: 13.071643333147966
 GT_area: 23712
 ST_area: 34839
 Overlap_area: 23712
 IOU: 0.6806165504176354
 Centre Distance: 3.5
 Category: True Positive

Frame: 39 Total Penalty: 13.368213024854436
 GT_area: 24300
 ST_area: 34545
 Overlap_area: 24300
 IOU: 0.7034303082935301
 Centre Distance: 5.5
 Category: True Positive

Frame: 40 Total Penalty: 13.681692470686823
 GT_area: 24182
 ST_area: 35224
 Overlap_area: 24182
 IOU: 0.686520554167613
 Centre Distance: 6.5
 Category: True Positive

Frame: 41 Total Penalty: 14.027149041462952
 GT_area: 23504
 ST_area: 35909
 Overlap_area: 23504
 IOU: 0.6545434292238714

Centre Distance: 9.5
Category: True Positive

Frame: 42 Total Penalty: 14.352364842068909
 GT_area: 23608
 ST_area: 34986
 Overlap_area: 23608
 IOU: 0.6747841993940433
 Centre Distance: 8.5
 Category: True Positive

Frame: 43 Total Penalty: 15.284101920461909
 GT_area: 23956
 ST_area: 34748
 Overlap_area: 23956
 IOU: 0.6894209738689997
 Centre Distance: 11.0
 Category: False Positive

Frame: 44 Total Penalty: 16.30836242537311
 GT_area: 23504
 ST_area: 35427
 Overlap_area: 23400
 IOU: 0.6585798316962652
 Centre Distance: 13.5
 Category: False Positive

Frame: 45 Total Penalty: 17.269939776232565
 GT_area: 23625
 ST_area: 34510
 Overlap_area: 23520
 IOU: 0.679474216380182
 Centre Distance: 13.0
 Category: False Positive

Frame: 46 Total Penalty: 17.55906508603127
 GT_area: 23520
 ST_area: 33086
 Overlap_area: 23520
 IOU: 0.7108746902012936
 Centre Distance: 15.5
 Category: True Positive

Frame: 47 Total Penalty: 17.848068336302127
 GT_area: 23625
 ST_area: 33228
 Overlap_area: 23625
 IOU: 0.7109967497291441
 Centre Distance: 13.5
 Category: True Positive

Frame: 48 Total Penalty: 18.15358227097399
 GT_area: 23175
 ST_area: 33370

Overlap_area: 23175
IOU: 0.6944860653281391
Centre Distance: 9.5
Category: True Positive

Frame: 49 Total Penalty: 19.170754971690993
GT_area: 22400
ST_area: 33891
Overlap_area: 22400
IOU: 0.6609424330943319
Centre Distance: 11.5
Category: False Positive

Frame: 50 Total Penalty: 20.174750975686997
GT_area: 22644
ST_area: 34034
Overlap_area: 22644
IOU: 0.6653346653346653
Centre Distance: 11.5
Category: False Positive

Frame: 51 Total Penalty: 21.276017909589914
GT_area: 21631
ST_area: 34177
Overlap_area: 21631
IOU: 0.6329110220323609
Centre Distance: 12.0
Category: False Positive

Frame: 52 Total Penalty: 21.65298559807376
GT_area: 21056
ST_area: 33796
Overlap_area: 21056
IOU: 0.6230323115161558
Centre Distance: 7.0
Category: True Positive

Frame: 53 Total Penalty: 22.76672651817061
GT_area: 20774
ST_area: 33040
Overlap_area: 20774
IOU: 0.6287530266343826
Centre Distance: 11.0
Category: False Positive

Frame: 54 Total Penalty: 23.730478593433478
GT_area: 22077
ST_area: 32526
Overlap_area: 22077
IOU: 0.6787493082457111
Centre Distance: 11.0
Category: False Positive

Frame: 55 Total Penalty: 24.037844212094736

GT_area: 21854
ST_area: 31552
Overlap_area: 21854
IOU: 0.6926343813387424
Centre Distance: 5.0
Category: True Positive

Frame: 56 Total Penalty: 24.337212198680575
 GT_area: 21825
 ST_area: 30915
 Overlap_area: 21728
 IOU: 0.7006320134141623
 Centre Distance: 11.0
 Category: True Positive

Frame: 57 Total Penalty: 24.633379670500222
 GT_area: 21854
 ST_area: 31050
 Overlap_area: 21854
 IOU: 0.7038325281803542
 Centre Distance: 9.5
 Category: True Positive

Frame: 58 Total Penalty: 24.93874365517455
 GT_area: 21756
 ST_area: 31320
 Overlap_area: 21756
 IOU: 0.6946360153256705
 Centre Distance: 9.5
 Category: True Positive

Frame: 59 Total Penalty: 25.246064808030958
 GT_area: 21534
 ST_area: 31088
 Overlap_area: 21534
 IOU: 0.6926788471435924
 Centre Distance: 6.5
 Category: True Positive

Frame: 60 Total Penalty: 25.57340763903344
 GT_area: 20962
 ST_area: 30228
 Overlap_area: 20586
 IOU: 0.6726571689975167
 Centre Distance: 7.0
 Category: True Positive

Frame: 61 Total Penalty: 25.89143774168474
 GT_area: 21658
 ST_area: 31758
 Overlap_area: 21658
 IOU: 0.6819698973486995
 Centre Distance: 1.0
 Category: True Positive

Frame: 62 Total Penalty: 26.245989273041083
 GT_area: 21243
 ST_area: 32912
 Overlap_area: 21243
 IOU: 0.6454484686436558
 Centre Distance: 4.5
 Category: True Positive

Frame: 63 Total Penalty: 26.60267433624208
 GT_area: 21681
 ST_area: 33702
 Overlap_area: 21681
 IOU: 0.643314936799003
 Centre Distance: 2.0
 Category: True Positive

Frame: 64 Total Penalty: 26.968500423198602
 GT_area: 21879
 ST_area: 34500
 Overlap_area: 21879
 IOU: 0.6341739130434783
 Centre Distance: 1.5
 Category: True Positive

Frame: 65 Total Penalty: 27.301949236640485
 GT_area: 23088
 ST_area: 34638
 Overlap_area: 23088
 IOU: 0.6665511865581154
 Centre Distance: 0.0
 Category: True Positive

Frame: 66 Total Penalty: 27.653743577565262
 GT_area: 22542
 ST_area: 34776
 Overlap_area: 22542
 IOU: 0.6482056590752243
 Centre Distance: 1.0
 Category: True Positive

Frame: 67 Total Penalty: 28.013551862399222
 GT_area: 22440
 ST_area: 35052
 Overlap_area: 22440
 IOU: 0.640191715166039
 Centre Distance: 3.0
 Category: True Positive

Frame: 68 Total Penalty: 28.39181273196444
 GT_area: 21879
 ST_area: 35190
 Overlap_area: 21879
 IOU: 0.6217391304347826

Centre Distance: 0.5
Category: True Positive

Frame: 69 Total Penalty: 28.759592489421763
 GT_area: 22000
 ST_area: 34798
 Overlap_area: 22000
 IOU: 0.6322202425426748
 Centre Distance: 0.5
 Category: True Positive

Frame: 70 Total Penalty: 29.10506264828823
 GT_area: 22866
 ST_area: 34935
 Overlap_area: 22866
 IOU: 0.6545298411335337
 Centre Distance: 1.0
 Category: True Positive

Frame: 71 Total Penalty: 29.456887465806478
 GT_area: 22644
 ST_area: 34935
 Overlap_area: 22644
 IOU: 0.6481751824817519
 Centre Distance: 0.5
 Category: True Positive

Frame: 72 Total Penalty: 29.820453843543703
 GT_area: 22321
 ST_area: 35072
 Overlap_area: 22321
 IOU: 0.6364336222627737
 Centre Distance: 1.0
 Category: True Positive

Frame: 73 Total Penalty: 30.15135284716689
 GT_area: 23638
 ST_area: 35328
 Overlap_area: 23638
 IOU: 0.6691009963768116
 Centre Distance: 1.0
 Category: True Positive

Frame: 74 Total Penalty: 30.49164885709159
 GT_area: 22866
 ST_area: 34661
 Overlap_area: 22866
 IOU: 0.6597039900753008
 Centre Distance: 1.0
 Category: True Positive

Frame: 75 Total Penalty: 30.819538992979187
 GT_area: 23296
 ST_area: 34661

Overlap_area: 23296
IOU: 0.672109864112403
Centre Distance: 2.5
Category: True Positive

Frame: 76 Total Penalty: 31.12998752365456
GT_area: 24075
ST_area: 34914
Overlap_area: 24075
IOU: 0.6895514693246262
Centre Distance: 0.5
Category: True Positive

Frame: 77 Total Penalty: 31.484875378076904
GT_area: 22866
ST_area: 35445
Overlap_area: 22866
IOU: 0.6451121455776555
Centre Distance: 0.0
Category: True Positive

Frame: 78 Total Penalty: 31.840279414332002
GT_area: 23540
ST_area: 36519
Overlap_area: 23540
IOU: 0.6445959637448999
Centre Distance: 2.0
Category: True Positive

Frame: 79 Total Penalty: 32.17600530815649
GT_area: 24525
ST_area: 36920
Overlap_area: 24525
IOU: 0.6642741061755146
Centre Distance: 2.5
Category: True Positive

Frame: 80 Total Penalty: 32.56240467922567
GT_area: 23415
ST_area: 38160
Overlap_area: 23415
IOU: 0.6136006289308176
Centre Distance: 2.5
Category: True Positive

Frame: 81 Total Penalty: 32.94653742488292
GT_area: 23754
ST_area: 38570
Overlap_area: 23754
IOU: 0.6158672543427535
Centre Distance: 1.0
Category: True Positive

Frame: 82 Total Penalty: 33.32491440180799

GT_area: 23976
ST_area: 38570
Overlap_area: 23976
IOU: 0.6216230230749287
Centre Distance: 1.5
Category: True Positive

Frame: 83 Total Penalty: 33.68278602779275
GT_area: 24860
ST_area: 38715
Overlap_area: 24860
IOU: 0.6421283740152396
Centre Distance: 1.5
Category: True Positive

Frame: 84 Total Penalty: 34.03476846354117
GT_area: 25088
ST_area: 38715
Overlap_area: 25088
IOU: 0.6480175642515821
Centre Distance: 3.5
Category: True Positive

Frame: 85 Total Penalty: 34.36215863062599
GT_area: 25200
ST_area: 37466
Overlap_area: 25200
IOU: 0.6726098329151764
Centre Distance: 2.5
Category: True Positive

Frame: 86 Total Penalty: 34.679601750886015
GT_area: 25200
ST_area: 36920
Overlap_area: 25200
IOU: 0.6825568797399784
Centre Distance: 3.0
Category: True Positive

Frame: 87 Total Penalty: 34.96907096291796
GT_area: 25086
ST_area: 35306
Overlap_area: 25086
IOU: 0.7105307879680508
Centre Distance: 5.0
Category: True Positive

Frame: 88 Total Penalty: 35.262693207979055
GT_area: 24743
ST_area: 35028
Overlap_area: 24743
IOU: 0.706377754938906
Centre Distance: 6.0
Category: True Positive

```
-----  
Frame: 89   Total Penalty: 35.52969881807723  
           GT_area: 25197  
           ST_area: 34113  
           Overlap_area: 25086  
           IOU: 0.7329943899018233  
           Centre Distance: 6.0  
           Category: True Positive  
-----  
Frame: 90   Total Penalty: 35.78566449865637  
           GT_area: 25197  
           ST_area: 33345  
           Overlap_area: 24975  
           IOU: 0.7440343194208597  
           Centre Distance: 7.0  
           Category: True Positive  
-----  
Frame: 91   Total Penalty: 36.03214969159684  
           GT_area: 25410  
           ST_area: 33210  
           Overlap_area: 25190  
           IOU: 0.7535148070595273  
           Centre Distance: 6.5  
           Category: True Positive  
-----  
Frame: 92   Total Penalty: 36.26558129899197  
           GT_area: 24961  
           ST_area: 32562  
           Overlap_area: 24961  
           IOU: 0.7665683926048769  
           Centre Distance: 1.5  
           Category: True Positive  
-----  
Frame: 93   Total Penalty: 36.49888188838293  
           GT_area: 25872  
           ST_area: 31680  
           Overlap_area: 24976  
           IOU: 0.7666994106090373  
           Centre Distance: 4.0  
           Category: True Positive  
-----  
Frame: 94   Total Penalty: 36.68539534095143  
           GT_area: 27028  
           ST_area: 31680  
           Overlap_area: 26335  
           IOU: 0.8134865474315015  
           Centre Distance: 9.0  
           Category: True Positive  
-----  
Frame: 95   Total Penalty: 36.950520711259585  
           GT_area: 24486  
           ST_area: 32319  
           Overlap_area: 24062  
           IOU: 0.7348746296918426
```

Centre Distance: 7.5
Category: True Positive

Frame: 96 Total Penalty: 37.18251184535637
GT_area: 25488
ST_area: 31944
Overlap_area: 24948
IOU: 0.7680088659032139
Centre Distance: 8.0
Category: True Positive

Frame: 97 Total Penalty: 37.44792505042852
GT_area: 24360
ST_area: 31178
Overlap_area: 23520
IOU: 0.7345867949278531
Centre Distance: 8.0
Category: True Positive

Frame: 98 Total Penalty: 37.68552927676676
GT_area: 24698
ST_area: 30680
Overlap_area: 23956
IOU: 0.7623957736617657
Centre Distance: 6.0
Category: True Positive

Frame: 99 Total Penalty: 37.94271908777744
GT_area: 24336
ST_area: 30810
Overlap_area: 23504
IOU: 0.7428101889893179
Centre Distance: 2.0
Category: True Positive

Frame: 100 Total Penalty: 38.1836967467425
GT_area: 24592
ST_area: 30680
Overlap_area: 23850
IOU: 0.7590223410349437
Centre Distance: 5.0
Category: True Positive

Frame: 101 Total Penalty: 38.42583531048815
GT_area: 25016
ST_area: 30550
Overlap_area: 23956
IOU: 0.7578614362543499
Centre Distance: 5.0
Category: True Positive

Frame: 102 Total Penalty: 38.646067099630656
GT_area: 25252
ST_area: 30186

Overlap_area: 24289
IOU: 0.7797682108574914
Centre Distance: 6.0
Category: True Positive

Frame: 103 Total Penalty: 38.911714098222745
GT_area: 24378
ST_area: 29824
Overlap_area: 22950
IOU: 0.7343530014079099
Centre Distance: 3.0
Category: True Positive

Frame: 104 Total Penalty: 39.1892748414338
GT_area: 24174
ST_area: 30057
Overlap_area: 22746
IOU: 0.7224392567889472
Centre Distance: 3.5
Category: True Positive

Frame: 105 Total Penalty: 39.422262154005885
GT_area: 25095
ST_area: 30057
Overlap_area: 23940
IOU: 0.7670126874279123
Centre Distance: 1.0
Category: True Positive

Frame: 106 Total Penalty: 39.67737993091012
GT_area: 26051
ST_area: 31654
Overlap_area: 24634
IOU: 0.7448822230957637
Centre Distance: 0.0
Category: True Positive

Frame: 107 Total Penalty: 39.90623025628973
GT_area: 30366
ST_area: 38220
Overlap_area: 29862
IOU: 0.7711496746203904
Centre Distance: 1.5
Category: True Positive

Frame: 108 Total Penalty: 40.081123134112545
GT_area: 35624
ST_area: 43175
Overlap_area: 35624
IOU: 0.8251071221771858
Centre Distance: 0.5
Category: True Positive

Frame: 109 Total Penalty: 40.241376361520686

GT_area: 42066
ST_area: 46860
Overlap_area: 40590
IOU: 0.839746772591857
Centre Distance: 2.0
Category: True Positive

Frame: 110 Total Penalty: 40.44612956078942
GT_area: 45080
ST_area: 51156
Overlap_area: 42630
IOU: 0.7952468007312614
Centre Distance: 2.0
Category: True Positive

Frame: 111 Total Penalty: 40.63500152899505
GT_area: 44896
ST_area: 52626
Overlap_area: 43676
IOU: 0.8111280317943765
Centre Distance: 2.5
Category: True Positive

Frame: 112 Total Penalty: 40.8584391614889
GT_area: 46995
ST_area: 57760
Overlap_area: 45790
IOU: 0.7765623675061477
Centre Distance: 0.5
Category: True Positive

Frame: 113 Total Penalty: 41.1420790600262
GT_area: 47400
ST_area: 65600
Overlap_area: 47163
IOU: 0.7163601014627033
Centre Distance: 3.5
Category: True Positive

Frame: 114 Total Penalty: 42.24427336441199
GT_area: 45828
ST_area: 70090
Overlap_area: 44916
IOU: 0.6326018985380694
Centre Distance: 11.0
Category: False Positive

Frame: 115 Total Penalty: 43.3778676912855
GT_area: 45800
ST_area: 70632
Overlap_area: 44655
IOU: 0.6221352243754963
Centre Distance: 14.0
Category: False Positive

Frame: 116 Total Penalty: 44.507876596005005
GT_area: 44550
ST_area: 70299
Overlap_area: 44100
IOU: 0.6233303650934996
Centre Distance: 12.5
Category: False Positive

Frame: 117 Total Penalty: 45.63713629048209
GT_area: 44576
ST_area: 71484
Overlap_area: 44576
IOU: 0.6235801018409715
Centre Distance: 11.5
Category: False Positive

Frame: 118 Total Penalty: 46.81134189795873
GT_area: 43956
ST_area: 72225
Overlap_area: 43956
IOU: 0.6085981308411215
Centre Distance: 12.5
Category: False Positive

Frame: 119 Total Penalty: 48.04446558768619
GT_area: 42140
ST_area: 71550
Overlap_area: 42140
IOU: 0.5889587700908455
Centre Distance: 10.5
Category: False Positive

Frame: 120 Total Penalty: 48.508721337722356
GT_area: 37036
ST_area: 69130
Overlap_area: 37036
IOU: 0.5357442499638363
Centre Distance: 6.5
Category: True Positive

Frame: 121 Total Penalty: 49.01954074545498
GT_area: 32757
ST_area: 66963
Overlap_area: 32757
IOU: 0.48918059226737154
Centre Distance: 4.0
Category: True Positive

Frame: 122 Total Penalty: 49.56124856623257
GT_area: 30624
ST_area: 66822
Overlap_area: 30624
IOU: 0.4582921792224118

Centre Distance: 2.0
Category: True Positive

Frame: 123 Total Penalty: 50.114199167840894
GT_area: 29575
ST_area: 66156
Overlap_area: 29575
IOU: 0.4470493983916803
Centre Distance: 3.5
Category: True Positive

Frame: 124 Total Penalty: 50.66588721952895
GT_area: 29559
ST_area: 65934
Overlap_area: 29559
IOU: 0.4483119483119483
Centre Distance: 2.5
Category: True Positive

Frame: 125 Total Penalty: 51.238302122562665
GT_area: 26568
ST_area: 62135
Overlap_area: 26568
IOU: 0.4275850969662831
Centre Distance: 1.5
Category: True Positive

Frame: 126 Total Penalty: 51.85799582181233
GT_area: 22200
ST_area: 58374
Overlap_area: 22200
IOU: 0.38030630075033406
Centre Distance: 7.5
Category: True Positive

Frame: 127 Total Penalty: 53.73546617754356
GT_area: 20448
ST_area: 54648
Overlap_area: 20448
IOU: 0.37417654808959155
Centre Distance: 10.0
Category: False Positive

Frame: 128 Total Penalty: 55.5897858463912
GT_area: 20300
ST_area: 52143
Overlap_area: 20020
IOU: 0.38189344371745226
Centre Distance: 14.5
Category: False Positive

Frame: 129 Total Penalty: 57.455150697367564
GT_area: 19872
ST_area: 52542

Overlap_area: 19872
IOU: 0.37821171634121276
Centre Distance: 13.5
Category: False Positive

Frame: 130 Total Penalty: 59.309926337152305
GT_area: 19856
ST_area: 51522
Overlap_area: 19720
IOU: 0.3817414534050873
Centre Distance: 16.0
Category: False Positive

Frame: 131 Total Penalty: 61.197963146968256
GT_area: 19110
ST_area: 50596
Overlap_area: 18850
IOU: 0.37065439672801637
Centre Distance: 11.0
Category: False Positive

Frame: 132 Total Penalty: 63.05722476250733
GT_area: 19126
ST_area: 50299
Overlap_area: 19126
IOU: 0.3802461281536412
Centre Distance: 13.0
Category: False Positive

Frame: 133 Total Penalty: 64.90124675965878
GT_area: 19479
ST_area: 50552
Overlap_area: 19479
IOU: 0.38532600094951736
Centre Distance: 10.5
Category: False Positive

Frame: 134 Total Penalty: 65.47842985825032
GT_area: 21014
ST_area: 49700
Overlap_area: 21014
IOU: 0.4228169014084507
Centre Distance: 9.0
Category: True Positive

Frame: 135 Total Penalty: 65.88600228880439
GT_area: 27946
ST_area: 46750
Overlap_area: 27789
IOU: 0.5924275694459249
Centre Distance: 6.5
Category: True Positive

Frame: 136 Total Penalty: 66.243446424136

GT_area: 29322
ST_area: 43890
Overlap_area: 28640
IOU: 0.6425558646684016
Centre Distance: 3.5
Category: True Positive

Frame: 137 Total Penalty: 66.5566023919173
GT_area: 37740
ST_area: 45192
Overlap_area: 33768
IOU: 0.6868440322186966
Centre Distance: 4.5
Category: True Positive

Frame: 138 Total Penalty: 66.8576057363989
GT_area: 40128
ST_area: 49280
Overlap_area: 36784
IOU: 0.6989966555183946
Centre Distance: 2.0
Category: True Positive

Frame: 139 Total Penalty: 67.89102248893828
GT_area: 45114
ST_area: 56100
Overlap_area: 40077
IOU: 0.6555277491535404
Centre Distance: 13.5
Category: False Positive

Frame: 140 Total Penalty: 69.00426535276607
GT_area: 46144
ST_area: 58286
Overlap_area: 40320
IOU: 0.6289190453907346
Centre Distance: 19.5
Category: False Positive

Frame: 141 Total Penalty: 70.01917931070106
GT_area: 46864
ST_area: 57424
Overlap_area: 41528
IOU: 0.6616953473550032
Centre Distance: 19.0
Category: False Positive

Frame: 142 Total Penalty: 71.04886391181424
GT_area: 47328
ST_area: 56260
Overlap_area: 41064
IOU: 0.6567717996289425
Centre Distance: 22.0
Category: False Positive

Frame: 143 Total Penalty: 71.96257930138282
GT_area: 47502
ST_area: 55185
Overlap_area: 42120
IOU: 0.6954282034771411
Centre Distance: 19.0
Category: False Positive

Frame: 144 Total Penalty: 72.18854204767719
GT_area: 45978
ST_area: 52882
Overlap_area: 43134
IOU: 0.7740372537056311
Centre Distance: 11.5
Category: True Positive

Frame: 145 Total Penalty: 72.41320969908044
GT_area: 43384
ST_area: 52768
Overlap_area: 41992
IOU: 0.7753323485967504
Centre Distance: 9.5
Category: True Positive

Frame: 146 Total Penalty: 72.68454380602266
GT_area: 42320
ST_area: 51531
Overlap_area: 39560
IOU: 0.7286658930577812
Centre Distance: 16.5
Category: True Positive

Frame: 147 Total Penalty: 72.92646907518035
GT_area: 40656
ST_area: 50952
Overlap_area: 39501
IOU: 0.7580747308423053
Centre Distance: 13.5
Category: True Positive

Frame: 148 Total Penalty: 73.19200195499894
GT_area: 38868
ST_area: 52920
Overlap_area: 38868
IOU: 0.7344671201814059
Centre Distance: 11.0
Category: True Positive

Frame: 149 Total Penalty: 73.47931159966899
GT_area: 38610
ST_area: 54175
Overlap_area: 38610
IOU: 0.7126903553299493

Centre Distance: 10.0
Category: True Positive

Frame: 150 Total Penalty: 73.80409280559623
GT_area: 34950
ST_area: 51761
Overlap_area: 34950
IOU: 0.6752187940727575
Centre Distance: 7.5
Category: True Positive

Frame: 151 Total Penalty: 74.17298169448512
GT_area: 32802
ST_area: 51975
Overlap_area: 32802
IOU: 0.6311111111111111
Centre Distance: 2.5
Category: True Positive

Frame: 152 Total Penalty: 74.57008364376922
GT_area: 31455
ST_area: 52173
Overlap_area: 31455
IOU: 0.6028980507158875
Centre Distance: 3.0
Category: True Positive

Frame: 153 Total Penalty: 74.96899074759436
GT_area: 31020
ST_area: 51606
Overlap_area: 31020
IOU: 0.6010928961748634
Centre Distance: 2.5
Category: True Positive

Frame: 154 Total Penalty: 75.35830463714731
GT_area: 30654
ST_area: 50196
Overlap_area: 30654
IOU: 0.6106861104470476
Centre Distance: 4.5
Category: True Positive

Frame: 155 Total Penalty: 75.75435045226793
GT_area: 29845
ST_area: 49416
Overlap_area: 29845
IOU: 0.6039541848793913
Centre Distance: 2.5
Category: True Positive

Frame: 156 Total Penalty: 76.13052177615346
GT_area: 29625
ST_area: 47489

Overlap_area: 29625
IOU: 0.6238286761144686
Centre Distance: 7.0
Category: True Positive

Frame: 157 Total Penalty: 77.09908842422931
GT_area: 30353
ST_area: 44825
Overlap_area: 30353
IOU: 0.6771444506413832
Centre Distance: 12.0
Category: False Positive

Frame: 158 Total Penalty: 77.38683011836785
GT_area: 30464
ST_area: 42771
Overlap_area: 30464
IOU: 0.7122583058614482
Centre Distance: 9.5
Category: True Positive

Frame: 159 Total Penalty: 77.66689613444133
GT_area: 30099
ST_area: 41808
Overlap_area: 30099
IOU: 0.7199339839265212
Centre Distance: 10.5
Category: True Positive

Frame: 160 Total Penalty: 77.96997910075487
GT_area: 29274
ST_area: 42005
Overlap_area: 29274
IOU: 0.6969170336864658
Centre Distance: 9.0
Category: True Positive

Frame: 161 Total Penalty: 78.26856495934072
GT_area: 29512
ST_area: 42075
Overlap_area: 29512
IOU: 0.7014141414141414
Centre Distance: 8.5
Category: True Positive

Frame: 162 Total Penalty: 78.58863831242296
GT_area: 28920
ST_area: 42534
Overlap_area: 28920
IOU: 0.67992664691776
Centre Distance: 2.5
Category: True Positive

Frame: 163 Total Penalty: 78.8861945712134

GT_area: 31964
ST_area: 45504
Overlap_area: 31964
IOU: 0.702443741209564
Centre Distance: 0.5
Category: True Positive

Frame: 164 Total Penalty: 79.22227138877169
GT_area: 31944
ST_area: 48114
Overlap_area: 31944
IOU: 0.663923182441701
Centre Distance: 2.0
Category: True Positive

Frame: 165 Total Penalty: 79.55724570384018
GT_area: 31070
ST_area: 46720
Overlap_area: 31070
IOU: 0.6650256849315068
Centre Distance: 1.0
Category: True Positive

Frame: 166 Total Penalty: 79.86784723967637
GT_area: 32319
ST_area: 46880
Overlap_area: 32319
IOU: 0.6893984641638226
Centre Distance: 0.5
Category: True Positive

Frame: 167 Total Penalty: 80.14955828288893
GT_area: 32912
ST_area: 45820
Overlap_area: 32912
IOU: 0.7182889567874291
Centre Distance: 1.0
Category: True Positive

Frame: 168 Total Penalty: 80.45915743900707
GT_area: 31416
ST_area: 45504
Overlap_area: 31416
IOU: 0.6904008438818565
Centre Distance: 2.0
Category: True Positive

Frame: 169 Total Penalty: 80.79640146631083
GT_area: 31070
ST_area: 46880
Overlap_area: 31070
IOU: 0.6627559726962458
Centre Distance: 2.0
Category: True Positive

Frame: 170 Total Penalty: 81.10590271154477
GT_area: 31330
ST_area: 45373
Overlap_area: 31330
IOU: 0.6904987547660503
Centre Distance: 1.5
Category: True Positive

Frame: 171 Total Penalty: 81.38223613421965
GT_area: 32400
ST_area: 44772
Overlap_area: 32400
IOU: 0.7236665773251139
Centre Distance: 3.5
Category: True Positive

Frame: 172 Total Penalty: 81.68124898251348
GT_area: 32026
ST_area: 45687
Overlap_area: 32026
IOU: 0.7009871517061746
Centre Distance: 5.5
Category: True Positive

Frame: 173 Total Penalty: 81.93082335527333
GT_area: 33499
ST_area: 44640
Overlap_area: 33499
IOU: 0.7504256272401434
Centre Distance: 7.0
Category: True Positive

Frame: 174 Total Penalty: 82.22041414141765
GT_area: 32568
ST_area: 45844
Overlap_area: 32568
IOU: 0.7104092138556845
Centre Distance: 2.5
Category: True Positive

Frame: 175 Total Penalty: 82.52640811395922
GT_area: 31088
ST_area: 44795
Overlap_area: 31088
IOU: 0.6940060274584217
Centre Distance: 4.5
Category: True Positive

Frame: 176 Total Penalty: 82.7643444232347
GT_area: 32880
ST_area: 43146
Overlap_area: 32880
IOU: 0.7620636907245167

Centre Distance: 6.0
Category: True Positive

Frame: 177 Total Penalty: 82.99651365473692
GT_area: 32232
ST_area: 41978
Overlap_area: 32232
IOU: 0.7678307684977845
Centre Distance: 6.5
Category: True Positive

Frame: 178 Total Penalty: 83.23528417014147
GT_area: 31725
ST_area: 41676
Overlap_area: 31725
IOU: 0.7612294845954506
Centre Distance: 5.0
Category: True Positive

Frame: 179 Total Penalty: 83.45310476014748
GT_area: 32480
ST_area: 41525
Overlap_area: 32480
IOU: 0.7821794099939795
Centre Distance: 3.5
Category: True Positive

Frame: 180 Total Penalty: 83.734159394559
GT_area: 31740
ST_area: 44148
Overlap_area: 31740
IOU: 0.7189453655884751
Centre Distance: 3.0
Category: True Positive

Frame: 181 Total Penalty: 83.98418809390465
GT_area: 32665
ST_area: 43555
Overlap_area: 32665
IOU: 0.749971300654345
Centre Distance: 4.0
Category: True Positive

Frame: 182 Total Penalty: 84.2540060895291
GT_area: 31373
ST_area: 42966
Overlap_area: 31373
IOU: 0.7301820043755528
Centre Distance: 4.5
Category: True Positive

Frame: 183 Total Penalty: 84.5384967811126
GT_area: 30324
ST_area: 42381

Overlap_area: 30324
IOU: 0.7155093084165074
Centre Distance: 5.0
Category: True Positive

Frame: 184 Total Penalty: 84.81795902367553
GT_area: 30228
ST_area: 41952
Overlap_area: 30228
IOU: 0.7205377574370709
Centre Distance: 4.0
Category: True Positive

Frame: 185 Total Penalty: 85.08019747610348
GT_area: 29900
ST_area: 40528
Overlap_area: 29900
IOU: 0.7377615475720489
Centre Distance: 2.5
Category: True Positive

Frame: 186 Total Penalty: 85.35219747610348
GT_area: 30030
ST_area: 41250
Overlap_area: 30030
IOU: 0.728
Centre Distance: 1.0
Category: True Positive

Frame: 187 Total Penalty: 85.62650684081875
GT_area: 29106
ST_area: 40108
Overlap_area: 29106
IOU: 0.7256906352847312
Centre Distance: 5.0
Category: True Positive

Frame: 188 Total Penalty: 85.86873853396094
GT_area: 29337
ST_area: 38715
Overlap_area: 29337
IOU: 0.757768306857807
Centre Distance: 6.0
Category: True Positive

Frame: 189 Total Penalty: 86.1234820896346
GT_area: 28044
ST_area: 37630
Overlap_area: 28044
IOU: 0.7452564443263354
Centre Distance: 4.5
Category: True Positive

Frame: 190 Total Penalty: 86.36508880426291

GT_area: 27830
ST_area: 36696
Overlap_area: 27830
IOU: 0.7583932853717026
Centre Distance: 5.0
Category: True Positive

Frame: 191 Total Penalty: 86.59562408406826
GT_area: 27830
ST_area: 36168
Overlap_area: 27830
IOU: 0.7694647201946472
Centre Distance: 5.0
Category: True Positive

Frame: 192 Total Penalty: 86.87365889349765
GT_area: 26216
ST_area: 36312
Overlap_area: 26216
IOU: 0.7219651905706103
Centre Distance: 5.0
Category: True Positive

Frame: 193 Total Penalty: 87.10427617744827
GT_area: 28044
ST_area: 36450
Overlap_area: 28044
IOU: 0.7693827160493827
Centre Distance: 6.0
Category: True Positive

Frame: 194 Total Penalty: 87.36947213437355
GT_area: 26680
ST_area: 36309
Overlap_area: 26680
IOU: 0.7348040430747198
Centre Distance: 3.5
Category: True Positive

Frame: 195 Total Penalty: 87.60968447677567
GT_area: 27480
ST_area: 36168
Overlap_area: 27480
IOU: 0.7597876575978766
Centre Distance: 4.0
Category: True Positive

Frame: 196 Total Penalty: 87.84368414081061
GT_area: 27588
ST_area: 35490
Overlap_area: 27360
IOU: 0.7660003359650597
Centre Distance: 5.5
Category: True Positive

Frame: 197 Total Penalty: 88.07863833390434
GT_area: 27140
ST_area: 35475
Overlap_area: 27140
IOU: 0.765045806906272
Centre Distance: 4.5
Category: True Positive

Frame: 198 Total Penalty: 88.37262644225052
GT_area: 26096
ST_area: 35880
Overlap_area: 25648
IOU: 0.7060118916538207
Centre Distance: 0.0
Category: True Positive

Frame: 199 Total Penalty: 88.66296598344098
GT_area: 26565
ST_area: 35217
Overlap_area: 25645
IOU: 0.7096604588095304
Centre Distance: 4.0
Category: True Positive

Frame: 200 Total Penalty: 89.91153770349811
GT_area: 25942
ST_area: 36156
Overlap_area: 22890
IOU: 0.5838094266476229
Centre Distance: 11.0
Category: False Positive

Frame: 201 Total Penalty: 90.43041590491195
GT_area: 25680
ST_area: 38223
Overlap_area: 20758
IOU: 0.48112179858616294
Centre Distance: 9.0
Category: True Positive

Frame: 202 Total Penalty: 90.95273878528361
GT_area: 26076
ST_area: 37538
Overlap_area: 20564
IOU: 0.47767711962833914
Centre Distance: 0.5
Category: True Positive

Frame: 203 Total Penalty: 92.72511160370173
GT_area: 28548
ST_area: 39762
Overlap_area: 19836
IOU: 0.409209060527293

Centre Distance: 15.0
Category: False Positive

Frame: 204 Total Penalty: 94.30043589278229
GT_area: 26244
ST_area: 38225
Overlap_area: 20758
IOU: 0.47489190363981604
Centre Distance: 16.5
Category: False Positive

Frame: 205 Total Penalty: 94.70540005185987
GT_area: 26487
ST_area: 36040
Overlap_area: 23326
IOU: 0.5950358409224255
Centre Distance: 5.5
Category: True Positive

Frame: 206 Total Penalty: 95.08704256393716
GT_area: 27440
ST_area: 38220
Overlap_area: 25088
IOU: 0.6183574879227053
Centre Distance: 5.0
Category: True Positive

Frame: 207 Total Penalty: 95.3716893030676
GT_area: 28431
ST_area: 39744
Overlap_area: 28431
IOU: 0.7153532608695652
Centre Distance: 7.5
Category: True Positive

Frame: 208 Total Penalty: 95.65877134755132
GT_area: 29040
ST_area: 40734
Overlap_area: 29040
IOU: 0.7129179555162763
Centre Distance: 6.0
Category: True Positive

Frame: 209 Total Penalty: 95.93085793199633
GT_area: 28920
ST_area: 39730
Overlap_area: 28920
IOU: 0.7279134155549962
Centre Distance: 6.5
Category: True Positive

Frame: 210 Total Penalty: 96.17096010313298
GT_area: 29750
ST_area: 39150

Overlap_area: 29750
IOU: 0.7598978288633461
Centre Distance: 0.0
Category: True Positive

Frame: 211 Total Penalty: 96.41814703598234
GT_area: 29036
ST_area: 38570
Overlap_area: 29036
IOU: 0.7528130671506352
Centre Distance: 2.5
Category: True Positive

Frame: 212 Total Penalty: 96.62218205691877
GT_area: 29274
ST_area: 36778
Overlap_area: 29274
IOU: 0.7959649790635707
Centre Distance: 0.5
Category: True Positive

Frame: 213 Total Penalty: 96.80794740008066
GT_area: 29161
ST_area: 35814
Overlap_area: 29161
IOU: 0.814234656838108
Centre Distance: 2.0
Category: True Positive

Frame: 214 Total Penalty: 96.97323159537099
GT_area: 29988
ST_area: 35926
Overlap_area: 29988
IOU: 0.834715804709681
Centre Distance: 1.0
Category: True Positive

Frame: 215 Total Penalty: 97.11704430440109
GT_area: 30976
ST_area: 36179
Overlap_area: 30976
IOU: 0.8561872909698997
Centre Distance: 4.5
Category: True Positive

Frame: 216 Total Penalty: 97.35650601031837
GT_area: 34160
ST_area: 37008
Overlap_area: 30744
IOU: 0.7605382940827231
Centre Distance: 16.0
Category: True Positive

Frame: 217 Total Penalty: 98.42730247049536

GT_area: 35321
ST_area: 32076
Overlap_area: 26378
IOU: 0.6430678466076696
Centre Distance: 16.5
Category: False Positive

Frame: 218 Total Penalty: 99.37052524022398
GT_area: 32943
ST_area: 35814
Overlap_area: 27966
IOU: 0.6855924100904611
Centre Distance: 22.0
Category: False Positive

Frame: 219 Total Penalty: 100.90894689323653
GT_area: 35478
ST_area: 50568
Overlap_area: 28188
IOU: 0.4871927823291507
Centre Distance: 43.0
Category: False Positive

Frame: 220 Total Penalty: 102.61829702006239
GT_area: 34510
ST_area: 63600
Overlap_area: 29512
IOU: 0.4302166243913817
Centre Distance: 48.5
Category: False Positive

Frame: 221 Total Penalty: 104.14055052336799
GT_area: 31144
ST_area: 63226
Overlap_area: 31144
IOU: 0.4925821655647993
Centre Distance: 21.0
Category: False Positive

Frame: 222 Total Penalty: 104.67785027245118
GT_area: 28767
ST_area: 62172
Overlap_area: 28767
IOU: 0.46270025091681144
Centre Distance: 4.5
Category: True Positive

Frame: 223 Total Penalty: 106.16204274914178
GT_area: 28288
ST_area: 55986
Overlap_area: 28288
IOU: 0.5052691744364662
Centre Distance: 13.0
Category: False Positive

Frame: 224 Total Penalty: 106.62254371253292
GT_area: 27720
ST_area: 51381
Overlap_area: 27720
IOU: 0.5394990366088632
Centre Distance: 6.5
Category: True Positive

Frame: 225 Total Penalty: 107.99188169162699
GT_area: 25272
ST_area: 46494
Overlap_area: 25272
IOU: 0.5435540069686411
Centre Distance: 10.5
Category: False Positive

Frame: 226 Total Penalty: 108.4632639689764
GT_area: 23653
ST_area: 44745
Overlap_area: 23653
IOU: 0.5286177226505755
Centre Distance: 4.0
Category: True Positive

Frame: 227 Total Penalty: 108.91645369557126
GT_area: 23760
ST_area: 43452
Overlap_area: 23760
IOU: 0.5468102734051367
Centre Distance: 0.5
Category: True Positive

Frame: 228 Total Penalty: 109.35644443845486
GT_area: 24198
ST_area: 43210
Overlap_area: 24198
IOU: 0.5600092571164083
Centre Distance: 1.0
Category: True Positive

Frame: 229 Total Penalty: 109.77282669101459
GT_area: 24966
ST_area: 42778
Overlap_area: 24966
IOU: 0.5836177474402731
Centre Distance: 4.0
Category: True Positive

Frame: 230 Total Penalty: 110.1722972049561
GT_area: 24725
ST_area: 41172
Overlap_area: 24725
IOU: 0.6005294860584863

Centre Distance: 5.0
Category: True Positive

Frame: 231 Total Penalty: 110.54964429783301
GT_area: 24738
ST_area: 39730
Overlap_area: 24738
IOU: 0.6226529071230807
Centre Distance: 5.5
Category: True Positive

Frame: 232 Total Penalty: 110.89214116500094
GT_area: 25185
ST_area: 38304
Overlap_area: 25185
IOU: 0.6575031328320802
Centre Distance: 4.0
Category: True Positive

Frame: 233 Total Penalty: 111.19951071852434
GT_area: 25752
ST_area: 37180
Overlap_area: 25752
IOU: 0.6926304464766003
Centre Distance: 3.0
Category: True Positive

Frame: 234 Total Penalty: 111.4818572097524
GT_area: 26180
ST_area: 36480
Overlap_area: 26180
IOU: 0.7176535087719298
Centre Distance: 2.5
Category: True Positive

Frame: 235 Total Penalty: 111.75762770947077
GT_area: 27000
ST_area: 37281
Overlap_area: 27000
IOU: 0.7242295002816448
Centre Distance: 4.5
Category: True Positive

Frame: 236 Total Penalty: 112.01380662460637
GT_area: 27206
ST_area: 36576
Overlap_area: 27206
IOU: 0.7438210848643919
Centre Distance: 2.5
Category: True Positive

Frame: 237 Total Penalty: 112.28802665744709
GT_area: 26520
ST_area: 36540

Overlap_area: 26520
IOU: 0.7257799671592775
Centre Distance: 3.0
Category: True Positive

Frame: 238 Total Penalty: 112.57267557582507
GT_area: 26314
ST_area: 36250
Overlap_area: 26091
IOU: 0.7153510816220218
Centre Distance: 4.5
Category: True Positive

Frame: 239 Total Penalty: 112.87506712198747
GT_area: 25086
ST_area: 35960
Overlap_area: 25086
IOU: 0.6976084538375973
Centre Distance: 3.5
Category: True Positive

Frame: 240 Total Penalty: 113.22642218013976
GT_area: 23647
ST_area: 36456
Overlap_area: 23647
IOU: 0.6486449418477068
Centre Distance: 2.5
Category: True Positive

Frame: 241 Total Penalty: 113.71059235080511
GT_area: 20855
ST_area: 40430
Overlap_area: 20855
IOU: 0.5158298293346525
Centre Distance: 8.5
Category: True Positive

Frame: 242 Total Penalty: 114.31868534854769
GT_area: 18576
ST_area: 47399
Overlap_area: 18576
IOU: 0.3919070022574316
Centre Distance: 7.5
Category: True Positive

Frame: 243 Total Penalty: 116.28281188011742
GT_area: 19135
ST_area: 55417
Overlap_area: 19135
IOU: 0.3452911561434217
Centre Distance: 15.0
Category: False Positive

Frame: 244 Total Penalty: 118.4518137160436

GT_area: 17200
ST_area: 62094
Overlap_area: 17200
IOU: 0.27699938802460783
Centre Distance: 14.0
Category: False Positive

Frame: 245 Total Penalty: 120.79765550103346
GT_area: 16125
ST_area: 73950
Overlap_area: 16125
IOU: 0.21805273833671399
Centre Distance: 25.5
Category: False Positive

Frame: 246 Total Penalty: 123.26414135922796
GT_area: 14688
ST_area: 82592
Overlap_area: 14688
IOU: 0.17783804726850058
Centre Distance: 26.0
Category: False Positive

Frame: 247 Total Penalty: 125.83643865652526
GT_area: 13082
ST_area: 91760
Overlap_area: 13082
IOU: 0.14256756756756755
Centre Distance: 21.5
Category: False Positive

Frame: 248 Total Penalty: 128.47856891432716
GT_area: 12660
ST_area: 106128
Overlap_area: 12660
IOU: 0.11928991406603347
Centre Distance: 40.0
Category: False Positive

Frame: 249 Total Penalty: 131.20984702160735
GT_area: 12369
ST_area: 138087
Overlap_area: 12369
IOU: 0.08957396423993569
Centre Distance: 54.0
Category: False Positive

Frame: 250 Total Penalty: 134.01735976488817
GT_area: 11077
ST_area: 172640
Overlap_area: 11077
IOU: 0.0641624189063948
Centre Distance: 63.5
Category: False Positive

Frame: 251 Total Penalty: 136.86583143126484
GT_area: 10850
ST_area: 206492
Overlap_area: 10450
IOU: 0.05050944454111324
Centre Distance: 109.0
Category: False Positive

Frame: 252 Total Penalty: 139.7634773137698
GT_area: 10128
ST_area: 293942
Overlap_area: 10032
IOU: 0.03411803916500589
Centre Distance: 133.5
Category: False Positive

Frame: 253 Total Penalty: 142.69919587067633
GT_area: 9030
ST_area: 421428
Overlap_area: 9030
IOU: 0.021427147697827387
Centre Distance: 158.5
Category: False Positive

Frame: 254 Total Penalty: 145.65354108493344
GT_area: 7752
ST_area: 509388
Overlap_area: 7752
IOU: 0.015218261914297157
Centre Distance: 176.0
Category: False Positive

Frame: 255 Total Penalty: 148.61502068920265
GT_area: 7904
ST_area: 615570
Overlap_area: 7904
IOU: 0.012840131910262034
Centre Distance: 196.0
Category: False Positive

Frame: 256 Total Penalty: 151.58919026962224
GT_area: 6501
ST_area: 755040
Overlap_area: 6501
IOU: 0.00861013986013986
Centre Distance: 229.5
Category: False Positive

Frame: 257 Total Penalty: 154.57694776745603
GT_area: 5070
ST_area: 928928
Overlap_area: 3796
IOU: 0.00408083405539872

Centre Distance: 266.0
Category: False Positive

Frame: 258 Total Penalty: 157.56835725041722
GT_area: 4324
ST_area: 1211998
Overlap_area: 3473
IOU: 0.0028635056796023246
Centre Distance: 308.0
Category: False Positive

Frame: 259 Total Penalty: 160.5638485686338
GT_area: 2499
ST_area: 1662792
Overlap_area: 2499
IOU: 0.0015028939278033573
Centre Distance: 188.0
Category: False Positive

Frame: 260 Total Penalty: 163.56225743113367
GT_area: 780
ST_area: 1470646
Overlap_area: 780
IOU: 0.0005303791667063318
Centre Distance: 82.5
Category: False Positive

Frame: 261 Total Penalty: 166.56033518984452
GT_area: 870
ST_area: 1357790
Overlap_area: 870
IOU: 0.0006407470963845661
Centre Distance: 55.5
Category: False Positive

Frame: 262 Total Penalty: 169.55968634877112
GT_area: 296
ST_area: 1368594
Overlap_area: 296
IOU: 0.00021628035779785678
Centre Distance: 30.0
Category: False Positive

Frame: 263 Total Penalty: 172.55903750769772
GT_area: 12
ST_area: 1491934
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 364.0
Category: False Positive

Frame: 264 Total Penalty: 175.5583886662432
GT_area: 9
ST_area: 1752508

Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 365.0
Category: False Positive

Frame: 265 Total Penalty: 178.55773982555093
GT_area: 6
ST_area: 2146584
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 286.5
Category: False Positive

Frame: 266 Total Penalty: 181.55709098447753
GT_area: 20
ST_area: 2712025
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 162.5
Category: False Positive

Frame: 267 Total Penalty: 184.55644214340413
GT_area: 12
ST_area: 3245748
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 129.0
Category: False Positive

Frame: 268 Total Penalty: 187.55579330233073
GT_area: 2
ST_area: 3773889
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 182.0
Category: False Positive

Frame: 269 Total Penalty: 190.55514446125733
GT_area: 2
ST_area: 4296431
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 265.5
Category: False Positive

Frame: 270 Total Penalty: 193.55449562018393
GT_area: 16
ST_area: 4897935
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 347.5
Category: False Positive

Frame: 271 Total Penalty: 196.55384677911053

GT_area: 20
ST_area: 5374188
Overlap_area: 0
IOU: 0.00021628035779785678
Centre Distance: 323.5
Category: False Positive

Frame: 272 Total Penalty: 199.5519124692901
GT_area: 3800
ST_area: 5893575
Overlap_area: 3800
IOU: 0.0006447699401466851
Centre Distance: 120.5
Category: False Positive

Frame: 273 Total Penalty: 202.54890122844344
GT_area: 7175
ST_area: 7148216
Overlap_area: 7175
IOU: 0.0010037469488890654
Centre Distance: 308.5
Category: False Positive

Frame: 274 Total Penalty: 205.54635154103786
GT_area: 7420
ST_area: 8730482
Overlap_area: 7420
IOU: 0.0008498958018583625
Centre Distance: 675.0
Category: False Positive

Frame: 275 Total Penalty: 208.54204055545736
GT_area: 12470
ST_area: 8677830
Overlap_area: 12470
IOU: 0.0014369951934988356
Centre Distance: 68.0
Category: False Positive

Frame: 276 Total Penalty: 211.53632242369193
GT_area: 16275
ST_area: 8538628
Overlap_area: 16275
IOU: 0.0019060439218103891
Centre Distance: 253.5
Category: False Positive

Frame: 277 Total Penalty: 214.52920327118275
GT_area: 20832
ST_area: 8778573
Overlap_area: 20832
IOU: 0.00237305083639448
Centre Distance: 85.5
Category: False Positive

Frame: 278 Total Penalty: 217.52002753762739
GT_area: 25857
ST_area: 8453929
Overlap_area: 25857
IOU: 0.003058577851789387
Centre Distance: 185.0
Category: False Positive

Frame: 279 Total Penalty: 218.51659401559695
GT_area: 28416
ST_area: 8276050
Overlap_area: 28416
IOU: 0.0034335220304372253
Centre Distance: 1.5
Category: True Positive

Frame: 280 Total Penalty: 221.50637998197277
GT_area: 27875
ST_area: 8187265
Overlap_area: 27875
IOU: 0.0034046778747237327
Centre Distance: 91.0
Category: False Positive

Frame: 281 Total Penalty: 224.4963269403822
GT_area: 27875
ST_area: 8318378
Overlap_area: 27875
IOU: 0.0033510138635200275
Centre Distance: 85.5
Category: False Positive

Frame: 282 Total Penalty: 227.4862965631842
GT_area: 28892
ST_area: 8641350
Overlap_area: 28892
IOU: 0.0033434590660024184
Centre Distance: 91.5
Category: False Positive

Frame: 283 Total Penalty: 230.47639877993927
GT_area: 28980
ST_area: 8783785
Overlap_area: 28980
IOU: 0.0032992610816407735
Centre Distance: 148.5
Category: False Positive

Frame: 284 Total Penalty: 233.46612435663764
GT_area: 30916
ST_area: 9027076
Overlap_area: 30916
IOU: 0.003424807767210556

Centre Distance: 16.5
Category: False Positive

Frame: 285 Total Penalty: 236.45708842647934
GT_area: 27798
ST_area: 9229155
Overlap_area: 27798
IOU: 0.00301197671942881
Centre Distance: 173.0
Category: False Positive

Frame: 286 Total Penalty: 239.44782591942527
GT_area: 28625
ST_area: 9271248
Overlap_area: 28625
IOU: 0.0030875023513555026
Centre Distance: 76.5
Category: False Positive

Frame: 287 Total Penalty: 242.43884060558915
GT_area: 28413
ST_area: 9486480
Overlap_area: 28413
IOU: 0.0029951046120373415
Centre Distance: 253.5
Category: False Positive

Frame: 288 Total Penalty: 245.4298399120961
GT_area: 29358
ST_area: 9785246
Overlap_area: 29358
IOU: 0.0030002311643468134
Centre Distance: 134.5
Category: False Positive

Frame: 289 Total Penalty: 248.42145068090235
GT_area: 27951
ST_area: 9995314
Overlap_area: 27951
IOU: 0.0027964103979124617
Centre Distance: 157.5
Category: False Positive

Frame: 290 Total Penalty: 251.4128002440464
GT_area: 29140
ST_area: 10105848
Overlap_area: 29140
IOU: 0.002883478951988987
Centre Distance: 42.0
Category: False Positive

Frame: 291 Total Penalty: 254.40452112780667
GT_area: 28670
ST_area: 10388790

Overlap_area: 28670
IOU: 0.0027597054132386927
Centre Distance: 95.5
Category: False Positive

Frame: 292 Total Penalty: 257.39688127779664
GT_area: 27144
ST_area: 10658848
Overlap_area: 27144
IOU: 0.002546616670019124
Centre Distance: 118.0
Category: False Positive

Frame: 293 Total Penalty: 260.3889711851725
GT_area: 28798
ST_area: 10921996
Overlap_area: 28798
IOU: 0.0026366975413651497
Centre Distance: 96.5
Category: False Positive

Frame: 294 Total Penalty: 263.38155639802676
GT_area: 27612
ST_area: 11171730
Overlap_area: 27612
IOU: 0.002471595715256276
Centre Distance: 130.5
Category: False Positive

Frame: 295 Total Penalty: 266.37449663550507
GT_area: 27261
ST_area: 11584384
Overlap_area: 27261
IOU: 0.002353254173894788
Centre Distance: 189.5
Category: False Positive

Frame: 296 Total Penalty: 269.36818045575654
GT_area: 24804
ST_area: 11781172
Overlap_area: 24804
IOU: 0.0021053932495001346
Centre Distance: 85.5
Category: False Positive

Frame: 297 Total Penalty: 272.3625377886886
GT_area: 23000
ST_area: 12228260
Overlap_area: 23000
IOU: 0.001880889022640997
Centre Distance: 209.0
Category: False Positive

Frame: 298 Total Penalty: 275.35676260519926

GT_area: 24232
ST_area: 12587652
Overlap_area: 24232
IOU: 0.0019250611631144554
Centre Distance: 111.0
Category: False Positive

Frame: 299 Total Penalty: 278.3513287176507
GT_area: 23690
ST_area: 13079034
Overlap_area: 23690
IOU: 0.0018112958495252783
Centre Distance: 345.5
Category: False Positive

Frame: 300 Total Penalty: 281.3459738102077
GT_area: 23587
ST_area: 13214234
Overlap_area: 23587
IOU: 0.0017849691476630428
Centre Distance: 211.0
Category: False Positive

Frame: 301 Total Penalty: 284.34034105913486
GT_area: 25179
ST_area: 13410321
Overlap_area: 25179
IOU: 0.0018775836909496798
Centre Distance: 36.0
Category: False Positive

Frame: 302 Total Penalty: 287.33489157141685
GT_area: 24948
ST_area: 13734135
Overlap_area: 24948
IOU: 0.0018164959060035452
Centre Distance: 119.5
Category: False Positive

Frame: 303 Total Penalty: 290.32968040526634
GT_area: 24732
ST_area: 14237888
Overlap_area: 24732
IOU: 0.0017370553834950802
Centre Distance: 387.5
Category: False Positive

Frame: 304 Total Penalty: 293.32439533761476
GT_area: 25312
ST_area: 14368028
Overlap_area: 25312
IOU: 0.0017616892171980734
Centre Distance: 157.0
Category: False Positive

Frame: 305 Total Penalty: 296.31935088522175
GT_area: 24624
ST_area: 14644206
Overlap_area: 24624
IOU: 0.0016814841309935138
Centre Distance: 41.5
Category: False Positive

Frame: 306 Total Penalty: 299.3142919521578
GT_area: 25538
ST_area: 15144300
Overlap_area: 25538
IOU: 0.001686311021308347
Centre Distance: 149.5
Category: False Positive

Frame: 307 Total Penalty: 302.30946069988875
GT_area: 25080
ST_area: 15573602
Overlap_area: 25080
IOU: 0.0016104174230213409
Centre Distance: 219.5
Category: False Positive

Frame: 308 Total Penalty: 305.30456109374194
GT_area: 25650
ST_area: 15705344
Overlap_area: 25650
IOU: 0.001633202048933153
Centre Distance: 15.0
Category: False Positive

Frame: 309 Total Penalty: 308.30010297865914
GT_area: 23976
ST_area: 16134173
Overlap_area: 23976
IOU: 0.0014860383609373719
Centre Distance: 118.5
Category: False Positive

Frame: 310 Total Penalty: 311.29588984275676
GT_area: 24198
ST_area: 17230396
Overlap_area: 24198
IOU: 0.0014043786341300572
Centre Distance: 385.0
Category: False Positive

Frame: 311 Total Penalty: 314.29169300197015
GT_area: 24530
ST_area: 17534618
Overlap_area: 24530
IOU: 0.0013989469288695083

Centre Distance: 18.5
Category: False Positive

Frame: 312 Total Penalty: 317.2878160946175
GT_area: 23108
ST_area: 17881263
Overlap_area: 23108
IOU: 0.0012923024508951074
Centre Distance: 124.5
Category: False Positive

Frame: 313 Total Penalty: 320.28406878287916
GT_area: 23976
ST_area: 19194560
Overlap_area: 23976
IOU: 0.0012491039127752862
Centre Distance: 373.5
Category: False Positive

Frame: 314 Total Penalty: 323.28061769479865
GT_area: 22360
ST_area: 19437348
Overlap_area: 22360
IOU: 0.0011503626935114811
Centre Distance: 190.5
Category: False Positive

Frame: 315 Total Penalty: 326.27717672153165
GT_area: 22578
ST_area: 19684547
Overlap_area: 22578
IOU: 0.0011469910889999144
Centre Distance: 109.5
Category: False Positive

Frame: 316 Total Penalty: 329.2739868874045
GT_area: 21840
ST_area: 20540253
Overlap_area: 21840
IOU: 0.0010632780423882801
Centre Distance: 352.5
Category: False Positive

Frame: 317 Total Penalty: 332.2706609324482
GT_area: 23108
ST_area: 20843337
Overlap_area: 23108
IOU: 0.0011086516520843089
Centre Distance: 292.0
Category: False Positive

Frame: 318 Total Penalty: 335.2674667606193
GT_area: 22366
ST_area: 21006384

Overlap_area: 22366
IOU: 0.0010647239429689564
Centre Distance: 331.0
Category: False Positive

Frame: 319 Total Penalty: 338.2642724354205
GT_area: 22152
ST_area: 20804394
Overlap_area: 22152
IOU: 0.001064775066267251
Centre Distance: 413.0
Category: False Positive

Frame: 320 Total Penalty: 341.2611669096218
GT_area: 21311
ST_area: 20586852
Overlap_area: 21311
IOU: 0.0010351752662330306
Centre Distance: 376.5
Category: False Positive

Frame: 321 Total Penalty: 344.2580106461463
GT_area: 21424
ST_area: 20363319
Overlap_area: 21424
IOU: 0.001052087825172311
Centre Distance: 510.0
Category: False Positive

Frame: 322 Total Penalty: 347.25514477020977
GT_area: 19291
ST_area: 20193826
Overlap_area: 19291
IOU: 0.0009552919788454155
Centre Distance: 432.0
Category: False Positive

Frame: 323 Total Penalty: 350.25246601832237
GT_area: 18025
ST_area: 20186640
Overlap_area: 18025
IOU: 0.0008929172957956352
Centre Distance: 501.0
Category: False Positive

Frame: 324 Total Penalty: 353.250012676072
GT_area: 16366
ST_area: 20012699
Overlap_area: 16366
IOU: 0.0008177807501127159
Centre Distance: 459.5
Category: False Positive

Frame: 325 Total Penalty: 356.2478839872042

GT_area: 14157
ST_area: 19951718
Overlap_area: 14157
IOU: 0.0007095629559319153
Centre Distance: 563.5
Category: False Positive

Frame: 326 Total Penalty: 359.24609894820776
GT_area: 11656
ST_area: 19589488
Overlap_area: 11656
IOU: 0.0005950129988083405
Centre Distance: 433.0
Category: False Positive

Frame: 327 Total Penalty: 362.2446495211365
GT_area: 9434
ST_area: 19526336
Overlap_area: 9434
IOU: 0.0004831423570709835
Centre Distance: 426.5
Category: False Positive

Frame: 328 Total Penalty: 365.2434935501286
GT_area: 7482
ST_area: 19417442
Overlap_area: 7482
IOU: 0.00038532366930721357
Centre Distance: 452.5
Category: False Positive

Frame: 329 Total Penalty: 368.2423797945661
GT_area: 7138
ST_area: 19226840
Overlap_area: 7138
IOU: 0.00037125185417884583
Centre Distance: 517.0
Category: False Positive

Frame: 330 Total Penalty: 371.24133742447276
GT_area: 6622
ST_area: 19058490
Overlap_area: 6622
IOU: 0.0003474566977761617
Centre Distance: 335.0
Category: False Positive

Frame: 331 Total Penalty: 374.2405156223466
GT_area: 5146
ST_area: 18785544
Overlap_area: 5146
IOU: 0.00027393404204850285
Centre Distance: 468.5
Category: False Positive

```
-----  
Frame: 332 Total Penalty: 377.2398744292757  
GT_area: 3936  
ST_area: 18415670  
Overlap_area: 3936  
IOU: 0.0002137310236336772  
Centre Distance: 428.5  
Category: False Positive  
-----  
Frame: 333 Total Penalty: 380.23936055070436  
GT_area: 3159  
ST_area: 18442100  
Overlap_area: 3159  
IOU: 0.0001712928571041259  
Centre Distance: 477.5  
Category: False Positive  
-----  
Frame: 334 Total Penalty: 383.2389508161153  
GT_area: 2496  
ST_area: 18275245  
Overlap_area: 2496  
IOU: 0.0001365781963524976  
Centre Distance: 282.5  
Category: False Positive  
-----  
Frame: 335 Total Penalty: 386.2386541944873  
GT_area: 1800  
ST_area: 18205011  
Overlap_area: 1800  
IOU: 9.887387598941852e-05  
Centre Distance: 429.0  
Category: False Positive  
-----  
Frame: 336 Total Penalty: 389.23838978211086  
GT_area: 1425  
ST_area: 16167927  
Overlap_area: 1425  
IOU: 8.813745880965445e-05  
Centre Distance: 217.0  
Category: False Positive  
-----  
Frame: 337 Total Penalty: 392.2380850274678  
GT_area: 1554  
ST_area: 15297552  
Overlap_area: 1554  
IOU: 0.0001015848810319455  
Centre Distance: 288.0  
Category: False Positive  
-----  
Frame: 338 Total Penalty: 395.23785697067154  
GT_area: 1065  
ST_area: 14009668  
Overlap_area: 1065  
IOU: 7.601893206891127e-05
```

Centre Distance: 431.5
Category: False Positive

Frame: 339 Total Penalty: 398.2377695472858
GT_area: 368
ST_area: 12628200
Overlap_area: 368
IOU: 2.914112858522988e-05
Centre Distance: 23.0
Category: False Positive

Frame: 340 Total Penalty: 401.2376821239
GT_area: 8
ST_area: 12239280
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 209.0
Category: False Positive

Frame: 341 Total Penalty: 404.23759470051425
GT_area: 6
ST_area: 11226825
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 74.5
Category: False Positive

Frame: 342 Total Penalty: 407.2375072771285
GT_area: 0
ST_area: 9849750
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 123.5
Category: False Positive

Frame: 343 Total Penalty: 410.2374198537427
GT_area: 3
ST_area: 8786232
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 36.5
Category: False Positive

Frame: 344 Total Penalty: 413.23733243035696
GT_area: 9
ST_area: 7857934
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 43.0
Category: False Positive

Frame: 345 Total Penalty: 414.23730328922835
GT_area: 8
ST_area: 7298775

Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 9.5
Category: True Positive

Frame: 346 Total Penalty: 417.2372158658426
GT_area: 12
ST_area: 6405600
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 125.0
Category: False Positive

Frame: 347 Total Penalty: 420.2371284424568
GT_area: 8
ST_area: 5644236
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 39.0
Category: False Positive

Frame: 348 Total Penalty: 423.23704101907106
GT_area: 6
ST_area: 4885776
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 39.0
Category: False Positive

Frame: 349 Total Penalty: 426.2369535956853
GT_area: 8
ST_area: 4238117
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 36.5
Category: False Positive

Frame: 350 Total Penalty: 429.23686617229953
GT_area: 8
ST_area: 3769473
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 37.5
Category: False Positive

Frame: 351 Total Penalty: 430.2368370311709
GT_area: 6
ST_area: 3253358
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 7.5
Category: True Positive

Frame: 352 Total Penalty: 433.23674960778516

GT_area: 8
ST_area: 2858520
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 23.0
Category: False Positive

Frame: 353 Total Penalty: 434.23672046665655
GT_area: 8
ST_area: 2469270
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 5.0
Category: True Positive

Frame: 354 Total Penalty: 437.2366330432708
GT_area: 8
ST_area: 2127166
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 59.0
Category: False Positive

Frame: 355 Total Penalty: 440.236545619885
GT_area: 8
ST_area: 1850940
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 60.5
Category: False Positive

Frame: 356 Total Penalty: 443.23645819649926
GT_area: 8
ST_area: 1593886
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 43.0
Category: False Positive

Frame: 357 Total Penalty: 446.2363707731135
GT_area: 12
ST_area: 1441068
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 83.5
Category: False Positive

Frame: 358 Total Penalty: 449.2362833497277
GT_area: 8
ST_area: 1300398
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 132.0
Category: False Positive

Frame: 359 Total Penalty: 452.23619592634196
GT_area: 8
ST_area: 1157922
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 102.0
Category: False Positive

Frame: 360 Total Penalty: 455.2361085029562
GT_area: 12
ST_area: 1006167
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 121.5
Category: False Positive

Frame: 361 Total Penalty: 458.23602107957043
GT_area: 6
ST_area: 873287
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 131.0
Category: False Positive

Frame: 362 Total Penalty: 461.23593365618467
GT_area: 9
ST_area: 766100
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 111.0
Category: False Positive

Frame: 363 Total Penalty: 464.2358462327989
GT_area: 6
ST_area: 673935
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 117.0
Category: False Positive

Frame: 364 Total Penalty: 467.23575880941314
GT_area: 0
ST_area: 611072
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 133.0
Category: False Positive

Frame: 365 Total Penalty: 470.2356713860274
GT_area: 9
ST_area: 535069
Overlap_area: 0
IOU: 2.914112858522988e-05

Centre Distance: 138.0
Category: False Positive

Frame: 366 Total Penalty: 473.2355839626416
GT_area: 8
ST_area: 477600
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 134.0
Category: False Positive

Frame: 367 Total Penalty: 476.23549653925585
GT_area: 9
ST_area: 410592
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 157.5
Category: False Positive

Frame: 368 Total Penalty: 479.2354091158701
GT_area: 4
ST_area: 360938
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 158.0
Category: False Positive

Frame: 369 Total Penalty: 482.2353216924843
GT_area: 6
ST_area: 313495
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 153.0
Category: False Positive

Frame: 370 Total Penalty: 485.23523426909856
GT_area: 8
ST_area: 262440
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 187.5
Category: False Positive

Frame: 371 Total Penalty: 488.2351468457128
GT_area: 8
ST_area: 229030
Overlap_area: 0
IOU: 2.914112858522988e-05
Centre Distance: 179.0
Category: False Positive

Frame: 372 Total Penalty: 489.21064297830947
GT_area: 5544
ST_area: 226250

Overlap_area: 5544
IOU: 0.02450386740331492
Centre Distance: 6.0
Category: True Positive

Frame: 373 Total Penalty: 491.9548702744911
GT_area: 15862
ST_area: 186048
Overlap_area: 15862
IOU: 0.08525756793945649
Centre Distance: 18.0
Category: False Positive

Frame: 374 Total Penalty: 494.65383788778024
GT_area: 15600
ST_area: 155465
Overlap_area: 15600
IOU: 0.10034412890361175
Centre Distance: 18.5
Category: False Positive

Frame: 375 Total Penalty: 495.47261394999146
GT_area: 20904
ST_area: 115349
Overlap_area: 20904
IOU: 0.18122393778879747
Centre Distance: 8.5
Category: True Positive

Frame: 376 Total Penalty: 496.22464953758083
GT_area: 22018
ST_area: 88795
Overlap_area: 22018
IOU: 0.2479644124106087
Centre Distance: 5.0
Category: True Positive

Frame: 377 Total Penalty: 496.91980197532786
GT_area: 21828
ST_area: 71603
Overlap_area: 21828
IOU: 0.3048475622529782
Centre Distance: 0.0
Category: True Positive

Frame: 378 Total Penalty: 497.5292788318811
GT_area: 23843
ST_area: 61054
Overlap_area: 23843
IOU: 0.3905231434467848
Centre Distance: 0.5
Category: True Positive

Frame: 379 Total Penalty: 498.06077953976217

GT_area: 23826
ST_area: 50856
Overlap_area: 23826
IOU: 0.468499292118924
Centre Distance: 1.5
Category: True Positive

Frame: 380 Total Penalty: 498.5350056561116
GT_area: 23643
ST_area: 44968
Overlap_area: 23643
IOU: 0.525773883650596
Centre Distance: 0.5
Category: True Positive

Frame: 381 Total Penalty: 498.94404984932845
GT_area: 24150
ST_area: 40866
Overlap_area: 24150
IOU: 0.590955806783145
Centre Distance: 2.0
Category: True Positive

Frame: 382 Total Penalty: 499.29519606989845
GT_area: 25134
ST_area: 38736
Overlap_area: 25134
IOU: 0.6488537794299876
Centre Distance: 4.0
Category: True Positive

Frame: 383 Total Penalty: 499.61383623123527
GT_area: 26015
ST_area: 38181
Overlap_area: 26015
IOU: 0.6813598386632095
Centre Distance: 3.0
Category: True Positive

Frame: 384 Total Penalty: 499.91059375003226
GT_area: 26937
ST_area: 38304
Overlap_area: 26937
IOU: 0.7032424812030075
Centre Distance: 1.5
Category: True Positive

Frame: 385 Total Penalty: 500.2181593702073
GT_area: 26908
ST_area: 38860
Overlap_area: 26908
IOU: 0.6924343798250129
Centre Distance: 0.5
Category: True Positive

```
-----
Frame: 386 Total Penalty: 500.55124168062224
      GT_area: 26568
      ST_area: 39837
      Overlap_area: 26568
      IOU: 0.6669176895850591
      Centre Distance: 1.0
      Category: True Positive
-----
Frame: 387 Total Penalty: 500.8769654840808
      GT_area: 27528
      ST_area: 40826
      Overlap_area: 27528
      IOU: 0.6742761965414197
      Centre Distance: 1.5
      Category: True Positive
-----
Total Penalty: 500.8769654840808
True Positive: 222
False Positive: 164
True Negative: 0
False Negative: 0
Average Time: 0.31748132446269295
>>>
RESTART: C:\ObjDetAPI\models-master\research\object_detection\0
Tracker_Evaluator.py
True
Frame: 2 Total Penalty: 0.06889495225102316
      GT_area: 25038
      ST_area: 25920
      Overlap_area: 24570
      IOU: 0.9311050477489768
      Centre Distance: 2.5
      Category: True Positive
-----
Frame: 3 Total Penalty: 0.1555908249741036
      GT_area: 23868
      ST_area: 25920
      Overlap_area: 23766
      IOU: 0.9133041272769196
      Centre Distance: 1.0
      Category: True Positive
-----
Frame: 4 Total Penalty: 0.2653871824057591
      GT_area: 25038
      ST_area: 25920
      Overlap_area: 23999
      IOU: 0.8902036425683445
      Centre Distance: 4.5
      Category: True Positive
-----
Frame: 5 Total Penalty: 0.33795301216693485
      GT_area: 24440
      ST_area: 25920
```

Overlap_area: 24232
IOU: 0.9274341702388242
Centre Distance: 1.0
Category: True Positive

Frame: 6 Total Penalty: 0.4207291246871101
 GT_area: 23970
 ST_area: 25920
 Overlap_area: 23868
 IOU: 0.9172238874798248
 Centre Distance: 3.0
 Category: True Positive

Frame: 7 Total Penalty: 0.4892516086271529
 GT_area: 24592
 ST_area: 25920
 Overlap_area: 24360
 IOU: 0.9314775160599572
 Centre Distance: 2.0
 Category: True Positive

Frame: 8 Total Penalty: 0.5742607493949774
 GT_area: 24360
 ST_area: 25920
 Overlap_area: 24024
 IOU: 0.9149908592321755
 Centre Distance: 2.5
 Category: True Positive

Frame: 9 Total Penalty: 0.6438466025680617
 GT_area: 24514
 ST_area: 25920
 Overlap_area: 24308
 IOU: 0.9304141468269157
 Centre Distance: 0.5
 Category: True Positive

Frame: 10 Total Penalty: 0.748784874173
 GT_area: 23200
 ST_area: 25920
 Overlap_area: 23200
 IOU: 0.8950617283950617
 Centre Distance: 1.0
 Category: True Positive

Frame: 11 Total Penalty: 0.8436922815804074
 GT_area: 23460
 ST_area: 25920
 Overlap_area: 23460
 IOU: 0.9050925925925926
 Centre Distance: 1.0
 Category: True Positive

Frame: 12 Total Penalty: 0.9513697507162099

GT_area: 23129
ST_area: 25920
Overlap_area: 23129
IOU: 0.8923225308641975
Centre Distance: 0.5
Category: True Positive

Frame: 13 Total Penalty: 1.0434608000989258
 GT_area: 23533
 ST_area: 25920
 Overlap_area: 23533
 IOU: 0.9079089506172839
 Centre Distance: 2.5
 Category: True Positive

Frame: 14 Total Penalty: 1.1445410470125061
 GT_area: 23300
 ST_area: 25920
 Overlap_area: 23300
 IOU: 0.8989197530864198
 Centre Distance: 1.0
 Category: True Positive

Frame: 15 Total Penalty: 1.2838157383705309
 GT_area: 22310
 ST_area: 25920
 Overlap_area: 22310
 IOU: 0.8607253086419753
 Centre Distance: 0.5
 Category: True Positive

Frame: 16 Total Penalty: 1.4781058618273208
 GT_area: 20884
 ST_area: 25920
 Overlap_area: 20884
 IOU: 0.8057098765432099
 Centre Distance: 0.0
 Category: True Positive

Frame: 17 Total Penalty: 1.616068824790284
 GT_area: 22344
 ST_area: 25920
 Overlap_area: 22344
 IOU: 0.862037037037037
 Centre Distance: 1.0
 Category: True Positive

Frame: 18 Total Penalty: 1.7767555531853456
 GT_area: 21755
 ST_area: 25920
 Overlap_area: 21755
 IOU: 0.8393132716049383
 Centre Distance: 1.5
 Category: True Positive

Frame: 19 Total Penalty: 1.985088886518679
 GT_area: 20520
 ST_area: 25920
 Overlap_area: 20520
 IOU: 0.7916666666666666
 Centre Distance: 1.0
 Category: True Positive

Frame: 20 Total Penalty: 2.1706212939260867
 GT_area: 21111
 ST_area: 25920
 Overlap_area: 21111
 IOU: 0.8144675925925926
 Centre Distance: 0.5
 Category: True Positive

Frame: 21 Total Penalty: 2.384201540839667
 GT_area: 20384
 ST_area: 25920
 Overlap_area: 20384
 IOU: 0.7864197530864198
 Centre Distance: 2.5
 Category: True Positive

Frame: 22 Total Penalty: 2.5891398124446052
 GT_area: 20608
 ST_area: 25920
 Overlap_area: 20608
 IOU: 0.7950617283950617
 Centre Distance: 3.0
 Category: True Positive

Frame: 23 Total Penalty: 2.7976274667655927
 GT_area: 20516
 ST_area: 25920
 Overlap_area: 20516
 IOU: 0.7915123456790123
 Centre Distance: 4.0
 Category: True Positive

Frame: 24 Total Penalty: 2.985281787753247
 GT_area: 21056
 ST_area: 25920
 Overlap_area: 21056
 IOU: 0.8123456790123457
 Centre Distance: 3.0
 Category: True Positive

Frame: 25 Total Penalty: 3.145968516148309
 GT_area: 21755
 ST_area: 25920
 Overlap_area: 21755
 IOU: 0.8393132716049383

Centre Distance: 4.5
Category: True Positive

Frame: 26 Total Penalty: 3.324980861827321
 GT_area: 21280
 ST_area: 25920
 Overlap_area: 21280
 IOU: 0.8209876543209876
 Centre Distance: 5.5
 Category: True Positive

Frame: 27 Total Penalty: 3.5124665192892657
 GT_area: 21470
 ST_area: 25920
 Overlap_area: 21244
 IOU: 0.8125143425380555
 Centre Distance: 7.5
 Category: True Positive

Frame: 28 Total Penalty: 3.6877262053913205
 GT_area: 22213
 ST_area: 25920
 Overlap_area: 21755
 IOU: 0.8247403138979452
 Centre Distance: 7.5
 Category: True Positive

Frame: 29 Total Penalty: 3.9009241749344676
 GT_area: 21600
 ST_area: 25920
 Overlap_area: 20925
 IOU: 0.7868020304568528
 Centre Distance: 9.0
 Category: True Positive

Frame: 30 Total Penalty: 4.095331031046331
 GT_area: 22116
 ST_area: 25920
 Overlap_area: 21432
 IOU: 0.8055931438881371
 Centre Distance: 8.5
 Category: True Positive

Frame: 31 Total Penalty: 4.311739013307972
 GT_area: 22344
 ST_area: 25920
 Overlap_area: 21204
 IOU: 0.7835920177383592
 Centre Distance: 10.0
 Category: True Positive

Frame: 32 Total Penalty: 4.524837268861871
 GT_area: 22019
 ST_area: 25920

Overlap_area: 21111
IOU: 0.7869017444461011
Centre Distance: 9.5
Category: True Positive

Frame: 33 Total Penalty: 4.775128304950346
GT_area: 22176
ST_area: 25920
Overlap_area: 20608
IOU: 0.7497089639115251
Centre Distance: 11.5
Category: True Positive

Frame: 34 Total Penalty: 5.054634854260763
GT_area: 23730
ST_area: 25920
Overlap_area: 20792
IOU: 0.7204934506895835
Centre Distance: 14.5
Category: True Positive

Frame: 35 Total Penalty: 5.346154875510513
GT_area: 25536
ST_area: 25920
Overlap_area: 21338
IOU: 0.708479978750249
Centre Distance: 16.0
Category: True Positive

Frame: 36 Total Penalty: 6.311093899900757
GT_area: 23625
ST_area: 25920
Overlap_area: 20025
IOU: 0.6783536585365854
Centre Distance: 17.5
Category: False Positive

Frame: 37 Total Penalty: 7.231438356305493
GT_area: 24416
ST_area: 25920
Overlap_area: 20608
IOU: 0.6932185145317545
Centre Distance: 16.5
Category: False Positive

Frame: 38 Total Penalty: 8.263270188137325
GT_area: 23712
ST_area: 25920
Overlap_area: 19662
IOU: 0.6560560560560561
Centre Distance: 19.0
Category: False Positive

Frame: 39 Total Penalty: 9.236243161110298

GT_area: 24300
ST_area: 25920
Overlap_area: 20250
IOU: 0.6756756756756757
Centre Distance: 18.0
Category: False Positive

Frame: 40 Total Penalty: 10.185977721959704
 GT_area: 24182
 ST_area: 25920
 Overlap_area: 20340
 IOU: 0.6834218130501982
 Centre Distance: 17.5
 Category: False Positive

Frame: 41 Total Penalty: 11.127226442532887
 GT_area: 23504
 ST_area: 25920
 Overlap_area: 20114
 IOU: 0.6862504264756056
 Centre Distance: 17.0
 Category: False Positive

Frame: 42 Total Penalty: 12.075754354411584
 GT_area: 23608
 ST_area: 25920
 Overlap_area: 20114
 IOU: 0.6838240293737676
 Centre Distance: 17.0
 Category: False Positive

Frame: 43 Total Penalty: 13.009800941627185
 GT_area: 23956
 ST_area: 25920
 Overlap_area: 20340
 IOU: 0.6886511375947996
 Centre Distance: 17.0
 Category: False Positive

Frame: 44 Total Penalty: 13.911740152189694
 GT_area: 23504
 ST_area: 25920
 Overlap_area: 20340
 IOU: 0.6993535964791638
 Centre Distance: 16.0
 Category: False Positive

Frame: 45 Total Penalty: 14.814692725832574
 GT_area: 23625
 ST_area: 25920
 Overlap_area: 20384
 IOU: 0.6990158087857069
 Centre Distance: 15.5
 Category: False Positive

Frame: 46 Total Penalty: 15.113150875612309
 GT_area: 23520
 ST_area: 25920
 Overlap_area: 20384
 IOU: 0.7015418502202643
 Centre Distance: 15.5
 Category: True Positive

Frame: 47 Total Penalty: 15.38201880014061
 GT_area: 23625
 ST_area: 25920
 Overlap_area: 20925
 IOU: 0.7311320754716981
 Centre Distance: 13.5
 Category: True Positive

Frame: 48 Total Penalty: 15.666609995109164
 GT_area: 23175
 ST_area: 25920
 Overlap_area: 20475
 IOU: 0.7154088050314465
 Centre Distance: 14.5
 Category: True Positive

Frame: 49 Total Penalty: 15.922961034370134
 GT_area: 22400
 ST_area: 25920
 Overlap_area: 20608
 IOU: 0.74364896073903
 Centre Distance: 12.0
 Category: True Positive

Frame: 50 Total Penalty: 16.169494829864067
 GT_area: 22644
 ST_area: 25920
 Overlap_area: 20868
 IOU: 0.7534662045060658
 Centre Distance: 11.0
 Category: True Positive

Frame: 51 Total Penalty: 16.395997888196156
 GT_area: 21631
 ST_area: 25920
 Overlap_area: 20739
 IOU: 0.7734969416679099
 Centre Distance: 9.5
 Category: True Positive

Frame: 52 Total Penalty: 16.58365220918381
 GT_area: 21056
 ST_area: 25920
 Overlap_area: 21056
 IOU: 0.8123456790123457

Centre Distance: 7.0
Category: True Positive

Frame: 53 Total Penalty: 16.79741602847152
 GT_area: 20774
 ST_area: 25920
 Overlap_area: 20553
 IOU: 0.7862361807122911
 Centre Distance: 8.0
 Category: True Positive

Frame: 54 Total Penalty: 17.007284743972043
 GT_area: 22077
 ST_area: 25920
 Overlap_area: 21185
 IOU: 0.7901312844994779
 Centre Distance: 8.5
 Category: True Positive

Frame: 55 Total Penalty: 17.210526686128574
 GT_area: 21854
 ST_area: 25920
 Overlap_area: 21185
 IOU: 0.7967580578434691
 Centre Distance: 8.0
 Category: True Positive

Frame: 56 Total Penalty: 17.39994648135042
 GT_area: 21825
 ST_area: 25920
 Overlap_area: 21375
 IOU: 0.810580204778157
 Centre Distance: 7.5
 Category: True Positive

Frame: 57 Total Penalty: 17.57253570217435
 GT_area: 21854
 ST_area: 25920
 Overlap_area: 21631
 IOU: 0.8274107791760701
 Centre Distance: 6.0
 Category: True Positive

Frame: 58 Total Penalty: 17.733183850322497
 GT_area: 21756
 ST_area: 25920
 Overlap_area: 21756
 IOU: 0.8393518518518519
 Centre Distance: 5.0
 Category: True Positive

Frame: 59 Total Penalty: 17.90239681328546
 GT_area: 21534
 ST_area: 25920

Overlap_area: 21534
IOU: 0.830787037037037
Centre Distance: 1.5
Category: True Positive

Frame: 60 Total Penalty: 18.09367767748299
GT_area: 20962
ST_area: 25920
Overlap_area: 20962
IOU: 0.8087191358024691
Centre Distance: 1.0
Category: True Positive

Frame: 61 Total Penalty: 18.25810668982867
GT_area: 21658
ST_area: 25920
Overlap_area: 21658
IOU: 0.835570987654321
Centre Distance: 1.0
Category: True Positive

Frame: 62 Total Penalty: 18.438546504643483
GT_area: 21243
ST_area: 25920
Overlap_area: 21243
IOU: 0.8195601851851851
Centre Distance: 0.5
Category: True Positive

Frame: 63 Total Penalty: 18.60208817131015
GT_area: 21681
ST_area: 25920
Overlap_area: 21681
IOU: 0.8364583333333333
Centre Distance: 2.5
Category: True Positive

Frame: 64 Total Penalty: 18.75799094908793
GT_area: 21879
ST_area: 25920
Overlap_area: 21879
IOU: 0.8440972222222223
Centre Distance: 2.5
Category: True Positive

Frame: 65 Total Penalty: 18.899092451136177
GT_area: 23088
ST_area: 25920
Overlap_area: 22644
IOU: 0.8588984979517524
Centre Distance: 4.0
Category: True Positive

Frame: 66 Total Penalty: 19.060764554921928

GT_area: 22542
ST_area: 25920
Overlap_area: 22100
IOU: 0.8383278962142477
Centre Distance: 5.0
Category: True Positive

Frame: 67 Total Penalty: 19.226166679352882
 GT_area: 22440
 ST_area: 25920
 Overlap_area: 22000
 IOU: 0.834597875569044
 Centre Distance: 5.0
 Category: True Positive

Frame: 68 Total Penalty: 19.397659736236704
 GT_area: 21879
 ST_area: 25920
 Overlap_area: 21658
 IOU: 0.8285069431161777
 Centre Distance: 5.5
 Category: True Positive

Frame: 69 Total Penalty: 19.54889430413794
 GT_area: 22000
 ST_area: 25920
 Overlap_area: 22000
 IOU: 0.8487654320987654
 Centre Distance: 4.0
 Category: True Positive

Frame: 70 Total Penalty: 19.713868350628573
 GT_area: 22866
 ST_area: 25920
 Overlap_area: 22200
 IOU: 0.8350259535093658
 Centre Distance: 5.5
 Category: True Positive

Frame: 71 Total Penalty: 19.902319559223024
 GT_area: 22644
 ST_area: 25920
 Overlap_area: 21756
 IOU: 0.8115487914055506
 Centre Distance: 7.0
 Category: True Positive

Frame: 72 Total Penalty: 20.10255086798291
 GT_area: 22321
 ST_area: 25920
 Overlap_area: 21437
 IOU: 0.7997686912401134
 Centre Distance: 7.5
 Category: True Positive

Frame: 73 Total Penalty: 20.28444242275582
 GT_area: 23638
 ST_area: 25920
 Overlap_area: 22300
 IOU: 0.8181084452270893
 Centre Distance: 7.0
 Category: True Positive

Frame: 74 Total Penalty: 20.479558959936732
 GT_area: 22866
 ST_area: 25920
 Overlap_area: 21756
 IOU: 0.8048834628190898
 Centre Distance: 7.5
 Category: True Positive

Frame: 75 Total Penalty: 20.703577435687308
 GT_area: 23296
 ST_area: 25920
 Overlap_area: 21504
 IOU: 0.7759815242494227
 Centre Distance: 10.0
 Category: True Positive

Frame: 76 Total Penalty: 20.90000600711588
 GT_area: 24075
 ST_area: 25920
 Overlap_area: 22275
 IOU: 0.8035714285714286
 Centre Distance: 8.5
 Category: True Positive

Frame: 77 Total Penalty: 21.13852420468954
 GT_area: 22866
 ST_area: 25920
 Overlap_area: 21090
 IOU: 0.7614818024263431
 Centre Distance: 10.5
 Category: True Positive

Frame: 78 Total Penalty: 21.379633735272755
 GT_area: 23540
 ST_area: 25920
 Overlap_area: 21340
 IOU: 0.7588904694167852
 Centre Distance: 10.5
 Category: True Positive

Frame: 79 Total Penalty: 21.60308856887022
 GT_area: 24525
 ST_area: 25920
 Overlap_area: 22050
 IOU: 0.7765451664025357

Centre Distance: 10.5
Category: True Positive

Frame: 80 Total Penalty: 21.86428759611443
 GT_area: 23415
 ST_area: 25920
 Overlap_area: 20962
 IOU: 0.7388009727557889
 Centre Distance: 12.5
 Category: True Positive

Frame: 81 Total Penalty: 22.12646223927144
 GT_area: 23754
 ST_area: 25920
 Overlap_area: 21090
 IOU: 0.7378253568429891
 Centre Distance: 12.5
 Category: True Positive

Frame: 82 Total Penalty: 22.420616085425287
 GT_area: 23976
 ST_area: 25920
 Overlap_area: 20646
 IOU: 0.7058461538461539
 Centre Distance: 15.0
 Category: True Positive

Frame: 83 Total Penalty: 22.70135823060405
 GT_area: 24860
 ST_area: 25920
 Overlap_area: 21244
 IOU: 0.719257854821235
 Centre Distance: 15.0
 Category: True Positive

Frame: 84 Total Penalty: 22.9983667776126
 GT_area: 25088
 ST_area: 25920
 Overlap_area: 21056
 IOU: 0.7029914529914529
 Centre Distance: 16.0
 Category: True Positive

Frame: 85 Total Penalty: 23.292661071906892
 GT_area: 25200
 ST_area: 25920
 Overlap_area: 21150
 IOU: 0.7057057057057057
 Centre Distance: 16.0
 Category: True Positive

Frame: 86 Total Penalty: 23.57405290246665
 GT_area: 25200
 ST_area: 25920

Overlap_area: 21375
IOU: 0.7186081694402421
Centre Distance: 15.0
Category: True Positive

Frame: 87 Total Penalty: 23.860256786614222
GT_area: 25086
ST_area: 25920
Overlap_area: 21244
IOU: 0.7137961158524293
Centre Distance: 15.5
Category: True Positive

Frame: 88 Total Penalty: 24.13261825293988
GT_area: 24743
ST_area: 25920
Overlap_area: 21338
IOU: 0.7276385336743393
Centre Distance: 14.5
Category: True Positive

Frame: 89 Total Penalty: 24.37589957811687
GT_area: 25197
ST_area: 25920
Overlap_area: 22019
IOU: 0.7567186748230119
Centre Distance: 12.5
Category: True Positive

Frame: 90 Total Penalty: 24.619180903293856
GT_area: 25197
ST_area: 25920
Overlap_area: 22019
IOU: 0.7567186748230119
Centre Distance: 12.5
Category: True Positive

Frame: 91 Total Penalty: 24.830180485058808
GT_area: 25410
ST_area: 25920
Overlap_area: 22638
IOU: 0.7890004182350481
Centre Distance: 11.0
Category: True Positive

Frame: 92 Total Penalty: 25.069409470766665
GT_area: 24961
ST_area: 25920
Overlap_area: 21984
IOU: 0.760771014292141
Centre Distance: 12.5
Category: True Positive

Frame: 93 Total Penalty: 25.278723857241097

GT_area: 25872
ST_area: 25920
Overlap_area: 22869
IOU: 0.7906856135255679
Centre Distance: 11.0
Category: True Positive

Frame: 94 Total Penalty: 25.492836107645847
 GT_area: 27028
 ST_area: 25920
 Overlap_area: 23300
 IOU: 0.785887749595251
 Centre Distance: 12.0
 Category: True Positive

Frame: 95 Total Penalty: 25.677581137896496
 GT_area: 24486
 ST_area: 25920
 Overlap_area: 22638
 IOU: 0.8152549697493517
 Centre Distance: 9.0
 Category: True Positive

Frame: 96 Total Penalty: 25.863671960379826
 GT_area: 25488
 ST_area: 25920
 Overlap_area: 23067
 IOU: 0.8139091775166719
 Centre Distance: 9.0
 Category: True Positive

Frame: 97 Total Penalty: 26.057507724443337
 GT_area: 24360
 ST_area: 25920
 Overlap_area: 22442
 IOU: 0.8061642359364897
 Centre Distance: 8.5
 Category: True Positive

Frame: 98 Total Penalty: 26.224717515159536
 GT_area: 24698
 ST_area: 25920
 Overlap_area: 23000
 IOU: 0.8327902092838004
 Centre Distance: 7.0
 Category: True Positive

Frame: 99 Total Penalty: 26.398554724461864
 GT_area: 24336
 ST_area: 25920
 Overlap_area: 22736
 IOU: 0.8261627906976744
 Centre Distance: 8.0
 Category: True Positive

Frame: 100 Total Penalty: 26.577777563478516
GT_area: 24592
ST_area: 25920
Overlap_area: 22770
IOU: 0.8207771609833465
Centre Distance: 8.0
Category: True Positive

Frame: 101 Total Penalty: 26.741319530597064
GT_area: 25016
ST_area: 25920
Overlap_area: 23200
IOU: 0.8364580328814537
Centre Distance: 7.0
Category: True Positive

Frame: 102 Total Penalty: 26.8879330764138
GT_area: 25252
ST_area: 25920
Overlap_area: 23562
IOU: 0.853386454183267
Centre Distance: 5.5
Category: True Positive

Frame: 103 Total Penalty: 27.00664941393624
GT_area: 24378
ST_area: 25920
Overlap_area: 23562
IOU: 0.8812836624775583
Centre Distance: 2.0
Category: True Positive

Frame: 104 Total Penalty: 27.127795614521343
GT_area: 24174
ST_area: 25920
Overlap_area: 23432
IOU: 0.8788537994148976
Centre Distance: 4.0
Category: True Positive

Frame: 105 Total Penalty: 27.230410261004774
GT_area: 25095
ST_area: 25920
Overlap_area: 24128
IOU: 0.8973853535165693
Centre Distance: 2.5
Category: True Positive

Frame: 106 Total Penalty: 27.340967957507356
GT_area: 26051
ST_area: 25920
Overlap_area: 24465
IOU: 0.8894423034974187

Centre Distance: 3.5
Category: True Positive

Frame: 107 Total Penalty: 27.547049038588437
GT_area: 30366
ST_area: 25920
Overlap_area: 24910
IOU: 0.793918918918919
Centre Distance: 11.0
Category: True Positive

Frame: 108 Total Penalty: 27.824671337927963
GT_area: 35624
ST_area: 25920
Overlap_area: 25812
IOU: 0.7223777006604724
Centre Distance: 19.0
Category: True Positive

Frame: 109 Total Penalty: 28.824671337927963
GT_area: 42066
ST_area: 0
Overlap_area: 36465
IOU: 0.7223777006604724
Centre Distance: 306.5
Category: False Negative

Frame: 110 Total Penalty: 29.824671337927963
GT_area: 45080
ST_area: 0
Overlap_area: 34937
IOU: 0.7223777006604724
Centre Distance: 309.0
Category: False Negative

Frame: 111 Total Penalty: 30.824671337927963
GT_area: 44896
ST_area: 0
Overlap_area: 34937
IOU: 0.7223777006604724
Centre Distance: 309.0
Category: False Negative

Frame: 112 Total Penalty: 31.824671337927963
GT_area: 46995
ST_area: 0
Overlap_area: 35098
IOU: 0.7223777006604724
Centre Distance: 315.5
Category: False Negative

Frame: 113 Total Penalty: 32.82467133792797
GT_area: 47400
ST_area: 0

Overlap_area: 35697
IOU: 0.7223777006604724
Centre Distance: 319.0
Category: False Negative

Frame: 114 Total Penalty: 33.82467133792797
GT_area: 45828
ST_area: 0
Overlap_area: 35905
IOU: 0.7223777006604724
Centre Distance: 315.5
Category: False Negative

Frame: 115 Total Penalty: 34.82467133792797
GT_area: 45800
ST_area: 0
Overlap_area: 34815
IOU: 0.7223777006604724
Centre Distance: 311.0
Category: False Negative

Frame: 116 Total Penalty: 35.82467133792797
GT_area: 44550
ST_area: 0
Overlap_area: 35237
IOU: 0.7223777006604724
Centre Distance: 310.0
Category: False Negative

Frame: 117 Total Penalty: 36.82467133792797
GT_area: 44576
ST_area: 0
Overlap_area: 35237
IOU: 0.7223777006604724
Centre Distance: 310.5
Category: False Negative

Frame: 118 Total Penalty: 37.82467133792797
GT_area: 43956
ST_area: 0
Overlap_area: 35145
IOU: 0.7223777006604724
Centre Distance: 312.0
Category: False Negative

Frame: 119 Total Penalty: 38.82467133792797
GT_area: 42140
ST_area: 0
Overlap_area: 37840
IOU: 0.7223777006604724
Centre Distance: 318.0
Category: False Negative

Frame: 120 Total Penalty: 39.82467133792797

GT_area: 37036
ST_area: 0
Overlap_area: 42222
IOU: 0.7223777006604724
Centre Distance: 321.0
Category: False Negative

Frame: 121 Total Penalty: 40.82467133792797
GT_area: 32757
ST_area: 0
Overlap_area: 46400
IOU: 0.7223777006604724
Centre Distance: 321.5
Category: False Negative

Frame: 122 Total Penalty: 41.82467133792797
GT_area: 30624
ST_area: 0
Overlap_area: 49585
IOU: 0.7223777006604724
Centre Distance: 323.0
Category: False Negative

Frame: 123 Total Penalty: 42.82467133792797
GT_area: 29575
ST_area: 0
Overlap_area: 51920
IOU: 0.7223777006604724
Centre Distance: 323.5
Category: False Negative

Frame: 124 Total Penalty: 43.82467133792797
GT_area: 29559
ST_area: 0
Overlap_area: 52156
IOU: 0.7223777006604724
Centre Distance: 324.5
Category: False Negative

Frame: 125 Total Penalty: 44.82467133792797
GT_area: 26568
ST_area: 0
Overlap_area: 54264
IOU: 0.7223777006604724
Centre Distance: 319.0
Category: False Negative

Frame: 126 Total Penalty: 45.82467133792797
GT_area: 22200
ST_area: 0
Overlap_area: 58322
IOU: 0.7223777006604724
Centre Distance: 316.0
Category: False Negative

Frame: 127 Total Penalty: 46.82467133792797
GT_area: 20448
ST_area: 0
Overlap_area: 60515
IOU: 0.7223777006604724
Centre Distance: 316.0
Category: False Negative

Frame: 128 Total Penalty: 47.82467133792797
GT_area: 20300
ST_area: 0
Overlap_area: 61503
IOU: 0.7223777006604724
Centre Distance: 317.0
Category: False Negative

Frame: 129 Total Penalty: 48.82467133792797
GT_area: 19872
ST_area: 0
Overlap_area: 61504
IOU: 0.7223777006604724
Centre Distance: 317.0
Category: False Negative

Frame: 130 Total Penalty: 49.82467133792797
GT_area: 19856
ST_area: 0
Overlap_area: 62000
IOU: 0.7223777006604724
Centre Distance: 318.0
Category: False Negative

Frame: 131 Total Penalty: 50.82467133792797
GT_area: 19110
ST_area: 0
Overlap_area: 60024
IOU: 0.7223777006604724
Centre Distance: 311.0
Category: False Negative

Frame: 132 Total Penalty: 51.82467133792797
GT_area: 19126
ST_area: 0
Overlap_area: 60268
IOU: 0.7223777006604724
Centre Distance: 312.5
Category: False Negative

Frame: 133 Total Penalty: 52.82467133792797
GT_area: 19479
ST_area: 0
Overlap_area: 59286
IOU: 0.7223777006604724

Centre Distance: 310.5
Category: False Negative

Frame: 134 Total Penalty: 53.82467133792797
GT_area: 21014
ST_area: 0
Overlap_area: 56133
IOU: 0.7223777006604724
Centre Distance: 309.5
Category: False Negative

Frame: 135 Total Penalty: 54.82467133792797
GT_area: 27946
ST_area: 0
Overlap_area: 48952
IOU: 0.7223777006604724
Centre Distance: 310.5
Category: False Negative

Frame: 136 Total Penalty: 55.82467133792797
GT_area: 29322
ST_area: 0
Overlap_area: 48108
IOU: 0.7223777006604724
Centre Distance: 309.0
Category: False Negative

Frame: 137 Total Penalty: 56.82467133792797
GT_area: 37740
ST_area: 0
Overlap_area: 41664
IOU: 0.7223777006604724
Centre Distance: 309.5
Category: False Negative

Frame: 138 Total Penalty: 57.82467133792797
GT_area: 40128
ST_area: 0
Overlap_area: 37736
IOU: 0.7223777006604724
Centre Distance: 308.0
Category: False Negative

Frame: 139 Total Penalty: 58.82467133792797
GT_area: 45114
ST_area: 0
Overlap_area: 33066
IOU: 0.7223777006604724
Centre Distance: 301.0
Category: False Negative

Frame: 140 Total Penalty: 59.82467133792797
GT_area: 46144
ST_area: 0

Overlap_area: 31005
IOU: 0.7223777006604724
Centre Distance: 298.0
Category: False Negative

Frame: 141 Total Penalty: 60.82467133792797
GT_area: 46864
ST_area: 0
Overlap_area: 29944
IOU: 0.7223777006604724
Centre Distance: 298.0
Category: False Negative

Frame: 142 Total Penalty: 61.82467133792797
GT_area: 47328
ST_area: 0
Overlap_area: 29682
IOU: 0.7223777006604724
Centre Distance: 296.0
Category: False Negative

Frame: 143 Total Penalty: 62.82467133792797
GT_area: 47502
ST_area: 0
Overlap_area: 28161
IOU: 0.7223777006604724
Centre Distance: 290.5
Category: False Negative

Frame: 144 Total Penalty: 63.82467133792797
GT_area: 45978
ST_area: 0
Overlap_area: 27740
IOU: 0.7223777006604724
Centre Distance: 287.0
Category: False Negative

Frame: 145 Total Penalty: 64.82467133792797
GT_area: 43384
ST_area: 0
Overlap_area: 27594
IOU: 0.7223777006604724
Centre Distance: 282.5
Category: False Negative

Frame: 146 Total Penalty: 65.82467133792797
GT_area: 42320
ST_area: 0
Overlap_area: 26280
IOU: 0.7223777006604724
Centre Distance: 272.0
Category: False Negative

Frame: 147 Total Penalty: 66.82467133792797

GT_area: 40656
ST_area: 0
Overlap_area: 25810
IOU: 0.7223777006604724
Centre Distance: 266.0
Category: False Negative

Frame: 148 Total Penalty: 67.82467133792797
GT_area: 38868
ST_area: 0
Overlap_area: 25842
IOU: 0.7223777006604724
Centre Distance: 259.0
Category: False Negative

Frame: 149 Total Penalty: 68.82467133792797
GT_area: 38610
ST_area: 0
Overlap_area: 25696
IOU: 0.7223777006604724
Centre Distance: 258.5
Category: False Negative

Frame: 150 Total Penalty: 69.82467133792797
GT_area: 34950
ST_area: 0
Overlap_area: 26344
IOU: 0.7223777006604724
Centre Distance: 253.0
Category: False Negative

Frame: 151 Total Penalty: 70.82467133792797
GT_area: 32802
ST_area: 0
Overlap_area: 27331
IOU: 0.7223777006604724
Centre Distance: 252.0
Category: False Negative

Frame: 152 Total Penalty: 71.82467133792797
GT_area: 31455
ST_area: 0
Overlap_area: 27664
IOU: 0.7223777006604724
Centre Distance: 249.5
Category: False Negative

Frame: 153 Total Penalty: 72.82467133792797
GT_area: 31020
ST_area: 0
Overlap_area: 27664
IOU: 0.7223777006604724
Centre Distance: 248.0
Category: False Negative

Frame: 154 Total Penalty: 74.45759640997407
GT_area: 30654
ST_area: 25920
Overlap_area: 17710
IOU: 0.45569164265129686
Centre Distance: 42.5
Category: False Positive

Frame: 155 Total Penalty: 76.05254611769959
GT_area: 29845
ST_area: 25920
Overlap_area: 17787
IOU: 0.4683500974248249
Centre Distance: 40.5
Category: False Positive

Frame: 156 Total Penalty: 77.78007291119737
GT_area: 29625
ST_area: 25920
Overlap_area: 16543
IOU: 0.42415773550074354
Centre Distance: 45.5
Category: False Positive

Frame: 157 Total Penalty: 79.60438219413783
GT_area: 30353
ST_area: 25920
Overlap_area: 15844
IOU: 0.39189690568651214
Centre Distance: 49.5
Category: False Positive

Frame: 158 Total Penalty: 81.4458611989564
GT_area: 30464
ST_area: 25920
Overlap_area: 15708
IOU: 0.3861736650604779
Centre Distance: 50.0
Category: False Positive

Frame: 159 Total Penalty: 83.31740663340256
GT_area: 30099
ST_area: 25920
Overlap_area: 15312
IOU: 0.37615152185127865
Centre Distance: 51.5
Category: False Positive

Frame: 160 Total Penalty: 85.13424719627045
GT_area: 29274
ST_area: 25920
Overlap_area: 15611
IOU: 0.39438647904403407

Centre Distance: 48.5
Category: False Positive

Frame: 161 Total Penalty: 86.95815920249832
GT_area: 29512
ST_area: 25920
Overlap_area: 15611
IOU: 0.39202933125737677
Centre Distance: 49.0
Category: False Positive

Frame: 162 Total Penalty: 88.71707856731581
GT_area: 28920
ST_area: 25920
Overlap_area: 16048
IOU: 0.4136935450608373
Centre Distance: 46.0
Category: False Positive

Frame: 163 Total Penalty: 90.353524441273
GT_area: 31964
ST_area: 25920
Overlap_area: 18088
IOU: 0.4545180420142728
Centre Distance: 43.5
Category: False Positive

Frame: 164 Total Penalty: 91.90951235791833
GT_area: 31944
ST_area: 25920
Overlap_area: 18802
IOU: 0.48133736111822234
Centre Distance: 41.0
Category: False Positive

Frame: 165 Total Penalty: 93.46006538329243
GT_area: 31070
ST_area: 25920
Overlap_area: 18565
IOU: 0.4831489915419649
Centre Distance: 40.0
Category: False Positive

Frame: 166 Total Penalty: 95.02978417528979
GT_area: 32319
ST_area: 25920
Overlap_area: 18802
IOU: 0.4767604026675457
Centre Distance: 41.5
Category: False Positive

Frame: 167 Total Penalty: 96.5853844976105
GT_area: 32912
ST_area: 25920

Overlap_area: 19120
IOU: 0.4814665592264303
Centre Distance: 42.0
Category: False Positive

Frame: 168 Total Penalty: 98.21914512713202
GT_area: 31416
ST_area: 25920
Overlap_area: 17941
IOU: 0.45541312349282903
Centre Distance: 43.0
Category: False Positive

Frame: 169 Total Penalty: 99.76969815250612
GT_area: 31070
ST_area: 25920
Overlap_area: 18565
IOU: 0.4831489915419649
Centre Distance: 40.0
Category: False Positive

Frame: 170 Total Penalty: 101.3390408415991
GT_area: 31330
ST_area: 25920
Overlap_area: 18486
IOU: 0.47688577030234236
Centre Distance: 41.0
Category: False Positive

Frame: 171 Total Penalty: 102.8669911521581
GT_area: 32400
ST_area: 25920
Overlap_area: 19197
IOU: 0.4906832298136646
Centre Distance: 40.5
Category: False Positive

Frame: 172 Total Penalty: 104.42623092122774
GT_area: 32026
ST_area: 25920
Overlap_area: 18800
IOU: 0.4802534103101211
Centre Distance: 41.0
Category: False Positive

Frame: 173 Total Penalty: 105.95897282033307
GT_area: 33499
ST_area: 25920
Overlap_area: 19516
IOU: 0.4890860336315565
Centre Distance: 41.5
Category: False Positive

Frame: 174 Total Penalty: 107.52201333011915

GT_area: 32568
ST_area: 25920
Overlap_area: 18942
IOU: 0.47898649673797605
Centre Distance: 41.0
Category: False Positive

Frame: 175 Total Penalty: 109.00175431069269
GT_area: 31088
ST_area: 25920
Overlap_area: 19173
IOU: 0.5067530064754857
Centre Distance: 38.0
Category: False Positive

Frame: 176 Total Penalty: 110.42825158836965
GT_area: 32880
ST_area: 25920
Overlap_area: 20230
IOU: 0.5245009074410163
Centre Distance: 37.5
Category: False Positive

Frame: 177 Total Penalty: 111.83814976502131
GT_area: 32232
ST_area: 25920
Overlap_area: 20145
IOU: 0.5300339411161102
Centre Distance: 37.0
Category: False Positive

Frame: 178 Total Penalty: 113.18935944244066
GT_area: 31725
ST_area: 25920
Overlap_area: 20445
IOU: 0.5495967741935484
Centre Distance: 34.5
Category: False Positive

Frame: 179 Total Penalty: 114.51984984755794
GT_area: 32480
ST_area: 25920
Overlap_area: 20880
IOU: 0.5565031982942431
Centre Distance: 34.0
Category: False Positive

Frame: 180 Total Penalty: 115.89718816931101
GT_area: 31740
ST_area: 25920
Overlap_area: 20240
IOU: 0.5408872260823089
Centre Distance: 35.0
Category: False Positive

Frame: 181 Total Penalty: 117.23153911170549
GT_area: 32665
ST_area: 25920
Overlap_area: 20915
IOU: 0.5552163525351739
Centre Distance: 34.5
Category: False Positive

Frame: 182 Total Penalty: 118.54601720782631
GT_area: 31373
ST_area: 25920
Overlap_area: 20610
IOU: 0.5618406346263937
Centre Distance: 32.5
Category: False Positive

Frame: 183 Total Penalty: 119.91154126847232
GT_area: 30324
ST_area: 25920
Overlap_area: 19836
IOU: 0.5448253131179961
Centre Distance: 33.5
Category: False Positive

Frame: 184 Total Penalty: 121.23202132181157
GT_area: 30228
ST_area: 25920
Overlap_area: 20152
IOU: 0.5598399822202467
Centre Distance: 32.0
Category: False Positive

Frame: 185 Total Penalty: 122.52544459331241
GT_area: 29900
ST_area: 25920
Overlap_area: 20240
IOU: 0.568858909499719
Centre Distance: 31.0
Category: False Positive

Frame: 186 Total Penalty: 123.8134688479865
GT_area: 30030
ST_area: 25920
Overlap_area: 20328
IOU: 0.5706585817753074
Centre Distance: 31.0
Category: False Positive

Frame: 187 Total Penalty: 125.14906264301914
GT_area: 29106
ST_area: 25920
Overlap_area: 19635
IOU: 0.5548020683224548

Centre Distance: 32.0
Category: False Positive

Frame: 188 Total Penalty: 126.46507518858157
GT_area: 29337
ST_area: 25920
Overlap_area: 19866
IOU: 0.5613291514791896
Centre Distance: 31.5
Category: False Positive

Frame: 189 Total Penalty: 127.75288517810304
GT_area: 28044
ST_area: 25920
Overlap_area: 19608
IOU: 0.5707300034928396
Centre Distance: 29.5
Category: False Positive

Frame: 190 Total Penalty: 129.0379728974013
GT_area: 27830
ST_area: 25920
Overlap_area: 19550
IOU: 0.5716374269005848
Centre Distance: 29.5
Category: False Positive

Frame: 191 Total Penalty: 130.32306061669954
GT_area: 27830
ST_area: 25920
Overlap_area: 19550
IOU: 0.5716374269005848
Centre Distance: 29.5
Category: False Positive

Frame: 192 Total Penalty: 131.6370998041883
GT_area: 26216
ST_area: 25920
Overlap_area: 18758
IOU: 0.561986937503745
Centre Distance: 29.0
Category: False Positive

Frame: 193 Total Penalty: 132.95597558489612
GT_area: 28044
ST_area: 25920
Overlap_area: 19380
IOU: 0.5603747397640527
Centre Distance: 30.5
Category: False Positive

Frame: 194 Total Penalty: 134.21438904643458
GT_area: 26680
ST_area: 25920

Overlap_area: 19320
IOU: 0.5805288461538461
Centre Distance: 28.0
Category: False Positive

Frame: 195 Total Penalty: 135.49359930133366
GT_area: 27480
ST_area: 25920
Overlap_area: 19465
IOU: 0.5735965817003094
Centre Distance: 29.0
Category: False Positive

Frame: 196 Total Penalty: 136.85203094602485
GT_area: 27588
ST_area: 25920
Overlap_area: 18924
IOU: 0.5471894517696044
Centre Distance: 31.5
Category: False Positive

Frame: 197 Total Penalty: 138.16613162309287
GT_area: 27140
ST_area: 25920
Overlap_area: 19090
IOU: 0.561966440977333
Centre Distance: 30.0
Category: False Positive

Frame: 198 Total Penalty: 139.58658650203637
GT_area: 26096
ST_area: 25920
Overlap_area: 17941
IOU: 0.5265150403521643
Centre Distance: 33.0
Category: False Positive

Frame: 199 Total Penalty: 141.04871688419095
GT_area: 26565
ST_area: 25920
Overlap_area: 17787
IOU: 0.5126232059484697
Centre Distance: 34.5
Category: False Positive

Frame: 200 Total Penalty: 142.40934426968713
GT_area: 25942
ST_area: 25920
Overlap_area: 18326
IOU: 0.546457538167939
Centre Distance: 31.5
Category: False Positive

Frame: 201 Total Penalty: 143.40934426968713

GT_area: 25680
ST_area: 0
Overlap_area: 24112
IOU: 0.546457538167939
Centre Distance: 190.5
Category: False Negative

Frame: 202 Total Penalty: 144.40934426968713
GT_area: 26076
ST_area: 0
Overlap_area: 38528
IOU: 0.546457538167939
Centre Distance: 277.0
Category: False Negative

Frame: 203 Total Penalty: 145.40934426968713
GT_area: 28548
ST_area: 0
Overlap_area: 52448
IOU: 0.546457538167939
Centre Distance: 356.5
Category: False Negative

Frame: 204 Total Penalty: 146.40934426968713
GT_area: 26244
ST_area: 0
Overlap_area: 67151
IOU: 0.546457538167939
Centre Distance: 425.0
Category: False Negative

Frame: 205 Total Penalty: 147.40934426968713
GT_area: 26487
ST_area: 0
Overlap_area: 67151
IOU: 0.546457538167939
Centre Distance: 425.5
Category: False Negative

Frame: 206 Total Penalty: 148.40934426968713
GT_area: 27440
ST_area: 0
Overlap_area: 80514
IOU: 0.546457538167939
Centre Distance: 482.0
Category: False Negative

Frame: 207 Total Penalty: 149.40934426968713
GT_area: 28431
ST_area: 0
Overlap_area: 90160
IOU: 0.546457538167939
Centre Distance: 518.5
Category: False Negative

Frame: 208 Total Penalty: 150.40934426968713
GT_area: 29040
ST_area: 0
Overlap_area: 97200
IOU: 0.546457538167939
Centre Distance: 546.0
Category: False Negative

Frame: 209 Total Penalty: 151.40934426968713
GT_area: 28920
ST_area: 0
Overlap_area: 102312
IOU: 0.546457538167939
Centre Distance: 564.0
Category: False Negative

Frame: 210 Total Penalty: 152.40934426968713
GT_area: 29750
ST_area: 0
Overlap_area: 104030
IOU: 0.546457538167939
Centre Distance: 567.5
Category: False Negative

Frame: 211 Total Penalty: 153.40934426968713
GT_area: 29036
ST_area: 0
Overlap_area: 104442
IOU: 0.546457538167939
Centre Distance: 568.0
Category: False Negative

Frame: 212 Total Penalty: 154.40934426968713
GT_area: 29274
ST_area: 0
Overlap_area: 103428
IOU: 0.546457538167939
Centre Distance: 568.5
Category: False Negative

Frame: 213 Total Penalty: 155.40934426968713
GT_area: 29161
ST_area: 0
Overlap_area: 102515
IOU: 0.546457538167939
Centre Distance: 565.5
Category: False Negative

Frame: 214 Total Penalty: 156.40934426968713
GT_area: 29988
ST_area: 0
Overlap_area: 100776
IOU: 0.546457538167939

Centre Distance: 557.0
Category: False Negative

Frame: 215 Total Penalty: 157.40934426968713
GT_area: 30976
ST_area: 0
Overlap_area: 97920
IOU: 0.546457538167939
Centre Distance: 544.0
Category: False Negative

Frame: 216 Total Penalty: 158.40934426968713
GT_area: 34160
ST_area: 0
Overlap_area: 86565
IOU: 0.546457538167939
Centre Distance: 505.0
Category: False Negative

Frame: 217 Total Penalty: 159.40934426968713
GT_area: 35321
ST_area: 0
Overlap_area: 69741
IOU: 0.546457538167939
Centre Distance: 440.5
Category: False Negative

Frame: 218 Total Penalty: 160.40934426968713
GT_area: 32943
ST_area: 0
Overlap_area: 69715
IOU: 0.546457538167939
Centre Distance: 434.5
Category: False Negative

Frame: 219 Total Penalty: 161.40934426968713
GT_area: 35478
ST_area: 0
Overlap_area: 47259
IOU: 0.546457538167939
Centre Distance: 340.0
Category: False Negative

Frame: 220 Total Penalty: 162.40934426968713
GT_area: 34510
ST_area: 0
Overlap_area: 30060
IOU: 0.546457538167939
Centre Distance: 252.5
Category: False Negative

Frame: 221 Total Penalty: 163.40934426968713
GT_area: 31144
ST_area: 0

Overlap_area: 17490
IOU: 0.546457538167939
Centre Distance: 174.0
Category: False Negative

Frame: 222 Total Penalty: 164.87451647378907
GT_area: 28767
ST_area: 25920
Overlap_area: 18509
IOU: 0.5116092652993532
Centre Distance: 35.5
Category: False Positive

Frame: 223 Total Penalty: 166.19603546113083
GT_area: 28288
ST_area: 25920
Overlap_area: 19448
IOU: 0.5594936708860759
Centre Distance: 30.0
Category: False Positive

Frame: 224 Total Penalty: 167.5017530807341
GT_area: 27720
ST_area: 25920
Overlap_area: 19360
IOU: 0.5647607934655776
Centre Distance: 29.0
Category: False Positive

Frame: 225 Total Penalty: 168.59830480487201
GT_area: 25272
ST_area: 25920
Overlap_area: 19872
IOU: 0.6344827586206897
Centre Distance: 20.5
Category: False Positive

Frame: 226 Total Penalty: 169.5384585882144
GT_area: 23653
ST_area: 25920
Overlap_area: 20181
IOU: 0.6866154055525313
Centre Distance: 15.5
Category: False Positive

Frame: 227 Total Penalty: 169.83475488451072
GT_area: 23760
ST_area: 25920
Overlap_area: 20520
IOU: 0.7037037037037037
Centre Distance: 14.0
Category: True Positive

Frame: 228 Total Penalty: 170.7596856885342

GT_area: 24198
ST_area: 25920
Overlap_area: 20492
IOU: 0.691689731992169
Centre Distance: 15.5
Category: False Positive

Frame: 229 Total Penalty: 171.7576214007135
GT_area: 24966
ST_area: 25920
Overlap_area: 20367
IOU: 0.6673547626069006
Centre Distance: 18.0
Category: False Positive

Frame: 230 Total Penalty: 172.76550705867308
GT_area: 24725
ST_area: 25920
Overlap_area: 20210
IOU: 0.6640381140134713
Centre Distance: 17.5
Category: False Positive

Frame: 231 Total Penalty: 173.81424622593704
GT_area: 24738
ST_area: 25920
Overlap_area: 19964
IOU: 0.6504202775786798
Centre Distance: 19.0
Category: False Positive

Frame: 232 Total Penalty: 174.82644610881817
GT_area: 25185
ST_area: 25920
Overlap_area: 20367
IOU: 0.6626000390396252
Centre Distance: 18.5
Category: False Positive

Frame: 233 Total Penalty: 175.83012044647046
GT_area: 25752
ST_area: 25920
Overlap_area: 20646
IOU: 0.6654418874492362
Centre Distance: 19.0
Category: False Positive

Frame: 234 Total Penalty: 176.8555819359676
GT_area: 26180
ST_area: 25920
Overlap_area: 20680
IOU: 0.6581795035009548
Centre Distance: 19.5
Category: False Positive

Frame: 235 Total Penalty: 177.92820763429162
GT_area: 27000
ST_area: 25920
Overlap_area: 20700
IOU: 0.6424581005586593
Centre Distance: 22.0
Category: False Positive

Frame: 236 Total Penalty: 178.97304036653887
GT_area: 27206
ST_area: 25920
Overlap_area: 20962
IOU: 0.6517224225842557
Centre Distance: 21.0
Category: False Positive

Frame: 237 Total Penalty: 180.10682118252453
GT_area: 26520
ST_area: 25920
Overlap_area: 20111
IOU: 0.6220730613381175
Centre Distance: 23.0
Category: False Positive

Frame: 238 Total Penalty: 181.16634574271117
GT_area: 26314
ST_area: 25920
Overlap_area: 20516
IOU: 0.6468251466044518
Centre Distance: 21.0
Category: False Positive

Frame: 239 Total Penalty: 182.12622716563607
GT_area: 25086
ST_area: 25920
Overlap_area: 20646
IOU: 0.6800395256916996
Centre Distance: 17.5
Category: False Positive

Frame: 240 Total Penalty: 182.39141686184215
GT_area: 23647
ST_area: 25920
Overlap_area: 20995
IOU: 0.7348103037939241
Centre Distance: 12.5
Category: True Positive

Frame: 241 Total Penalty: 182.6016713099003
GT_area: 20855
ST_area: 25920
Overlap_area: 20640
IOU: 0.7897455519418405

Centre Distance: 6.5
Category: True Positive

Frame: 242 Total Penalty: 182.88500464323363
GT_area: 18576
ST_area: 25920
Overlap_area: 18576
IOU: 0.7166666666666667
Centre Distance: 2.0
Category: True Positive

Frame: 243 Total Penalty: 183.14677161854226
GT_area: 19135
ST_area: 25920
Overlap_area: 19135
IOU: 0.738233024691358
Centre Distance: 0.5
Category: True Positive

Frame: 244 Total Penalty: 183.4831913716287
GT_area: 17200
ST_area: 25920
Overlap_area: 17200
IOU: 0.6635802469135802
Centre Distance: 3.0
Category: True Positive

Frame: 245 Total Penalty: 183.8610848901472
GT_area: 16125
ST_area: 25920
Overlap_area: 16125
IOU: 0.6221064814814815
Centre Distance: 7.5
Category: True Positive

Frame: 246 Total Penalty: 185.1610848901472
GT_area: 14688
ST_area: 25920
Overlap_area: 14688
IOU: 0.5666666666666667
Centre Distance: 11.0
Category: False Positive

Frame: 247 Total Penalty: 186.64696451977684
GT_area: 13082
ST_area: 25920
Overlap_area: 13082
IOU: 0.5047067901234568
Centre Distance: 13.0
Category: False Positive

Frame: 248 Total Penalty: 188.18168674199907
GT_area: 12660
ST_area: 25920

Overlap_area: 12660
IOU: 0.48842592592592593
Centre Distance: 17.0
Category: False Positive

Frame: 249 Total Penalty: 189.75008951977685
GT_area: 12369
ST_area: 25920
Overlap_area: 12369
IOU: 0.4771990740740741
Centre Distance: 15.5
Category: False Positive

Frame: 250 Total Penalty: 191.46802933459168
GT_area: 11077
ST_area: 25920
Overlap_area: 11077
IOU: 0.42735339506172837
Centre Distance: 17.5
Category: False Positive

Frame: 251 Total Penalty: 193.21224229755464
GT_area: 10850
ST_area: 25920
Overlap_area: 10850
IOU: 0.4185956790123457
Centre Distance: 20.0
Category: False Positive

Frame: 252 Total Penalty: 195.04002007533242
GT_area: 10128
ST_area: 25920
Overlap_area: 10128
IOU: 0.3907407407407407
Centre Distance: 23.0
Category: False Positive

Frame: 253 Total Penalty: 196.99488118644354
GT_area: 9030
ST_area: 25920
Overlap_area: 9030
IOU: 0.34837962962962965
Centre Distance: 24.5
Category: False Positive

Frame: 254 Total Penalty: 199.09765896422132
GT_area: 7752
ST_area: 25920
Overlap_area: 7752
IOU: 0.29907407407407405
Centre Distance: 28.0
Category: False Positive

Frame: 255 Total Penalty: 201.18284414940652

GT_area: 7904
ST_area: 25920
Overlap_area: 7904
IOU: 0.30493827160493825
Centre Distance: 28.0
Category: False Positive

Frame: 256 Total Penalty: 203.43041359385097
GT_area: 6501
ST_area: 25920
Overlap_area: 6501
IOU: 0.25081018518518516
Centre Distance: 31.5
Category: False Positive

Frame: 257 Total Penalty: 205.84360803829543
GT_area: 5070
ST_area: 25920
Overlap_area: 5070
IOU: 0.19560185185185186
Centre Distance: 34.0
Category: False Positive

Frame: 258 Total Penalty: 208.34314507533247
GT_area: 4324
ST_area: 25920
Overlap_area: 4324
IOU: 0.166820987654321
Centre Distance: 37.5
Category: False Positive

Frame: 259 Total Penalty: 211.05390896422136
GT_area: 2499
ST_area: 25920
Overlap_area: 2499
IOU: 0.09641203703703703
Centre Distance: 39.5
Category: False Positive

Frame: 260 Total Penalty: 212.05390896422136
GT_area: 780
ST_area: 0
Overlap_area: 217
IOU: 0.09641203703703703
Centre Distance: 6.0
Category: False Negative

Frame: 261 Total Penalty: 213.05390896422136
GT_area: 870
ST_area: 0
Overlap_area: 217
IOU: 0.09641203703703703
Centre Distance: 6.0
Category: False Negative

Frame: 262 Total Penalty: 216.0196497049621
GT_area: 296
ST_area: 25920
Overlap_area: 296
IOU: 0.011419753086419753
Centre Distance: 29.0
Category: False Positive

Frame: 263 Total Penalty: 216.0196497049621
GT_area: 12
ST_area: 0
Overlap_area: 54516
IOU: 0.011419753086419753
Centre Distance: 355.5
Category: True Negative

Frame: 264 Total Penalty: 216.0196497049621
GT_area: 9
ST_area: 0
Overlap_area: 57078
IOU: 0.011419753086419753
Centre Distance: 379.5
Category: True Negative

Frame: 265 Total Penalty: 216.0196497049621
GT_area: 6
ST_area: 0
Overlap_area: 56392
IOU: 0.011419753086419753
Centre Distance: 372.5
Category: True Negative

Frame: 266 Total Penalty: 216.0196497049621
GT_area: 20
ST_area: 0
Overlap_area: 57442
IOU: 0.011419753086419753
Centre Distance: 375.0
Category: True Negative

Frame: 267 Total Penalty: 216.0196497049621
GT_area: 12
ST_area: 0
Overlap_area: 60053
IOU: 0.011419753086419753
Centre Distance: 374.0
Category: True Negative

Frame: 268 Total Penalty: 216.0196497049621
GT_area: 2
ST_area: 0
Overlap_area: 58188
IOU: 0.011419753086419753

Centre Distance: 373.5
Category: True Negative

Frame: 269 Total Penalty: 216.0196497049621
GT_area: 2
ST_area: 0
Overlap_area: 58989
IOU: 0.011419753086419753
Centre Distance: 372.0
Category: True Negative

Frame: 270 Total Penalty: 216.0196497049621
GT_area: 16
ST_area: 0
Overlap_area: 62040
IOU: 0.011419753086419753
Centre Distance: 378.0
Category: True Negative

Frame: 271 Total Penalty: 218.98539044570282
GT_area: 20
ST_area: 25920
Overlap_area: 0
IOU: 0.011419753086419753
Centre Distance: 398.5
Category: False Positive

Frame: 272 Total Penalty: 221.545575630888
GT_area: 3800
ST_area: 25920
Overlap_area: 3800
IOU: 0.14660493827160495
Centre Distance: 38.0
Category: False Positive

Frame: 273 Total Penalty: 223.7151358160732
GT_area: 7175
ST_area: 25920
Overlap_area: 7175
IOU: 0.2768132716049383
Centre Distance: 28.5
Category: False Positive

Frame: 274 Total Penalty: 225.8563395197769
GT_area: 7420
ST_area: 25920
Overlap_area: 7420
IOU: 0.2862654320987654
Centre Distance: 28.5
Category: False Positive

Frame: 275 Total Penalty: 227.41305248273986
GT_area: 12470
ST_area: 25920

Overlap_area: 12470
IOU: 0.4810956790123457
Centre Distance: 15.0
Category: False Positive

Frame: 276 Total Penalty: 227.78515896422135
GT_area: 16275
ST_area: 25920
Overlap_area: 16275
IOU: 0.6278935185185185
Centre Distance: 1.5
Category: True Positive

Frame: 277 Total Penalty: 228.03989989299544
GT_area: 20832
ST_area: 25920
Overlap_area: 19964
IOU: 0.745259071225922
Centre Distance: 10.0
Category: True Positive

Frame: 278 Total Penalty: 229.13460714999033
GT_area: 25857
ST_area: 25920
Overlap_area: 20111
IOU: 0.6350975810017053
Centre Distance: 21.5
Category: False Positive

Frame: 279 Total Penalty: 230.32781309478864
GT_area: 28416
ST_area: 25920
Overlap_area: 20424
IOU: 0.6022646850672329
Centre Distance: 26.0
Category: False Positive

Frame: 280 Total Penalty: 231.54249063370636
GT_area: 27875
ST_area: 25920
Overlap_area: 20070
IOU: 0.5951074870274278
Centre Distance: 26.5
Category: False Positive

Frame: 281 Total Penalty: 232.85024780065407
GT_area: 27875
ST_area: 25920
Overlap_area: 19401
IOU: 0.5640809443507588
Centre Distance: 29.5
Category: False Positive

Frame: 282 Total Penalty: 234.08964445969696

GT_area: 28892
ST_area: 25920
Overlap_area: 20271
IOU: 0.5868677803190412
Centre Distance: 29.0
Category: False Positive

Frame: 283 Total Penalty: 235.36909415875112
GT_area: 28980
ST_area: 25920
Overlap_area: 20010
IOU: 0.5735167669819432
Centre Distance: 30.0
Category: False Positive

Frame: 284 Total Penalty: 236.68364995551406
GT_area: 30916
ST_area: 25920
Overlap_area: 20445
IOU: 0.5618147344123547
Centre Distance: 32.5
Category: False Positive

Frame: 285 Total Penalty: 238.0478590283789
GT_area: 27798
ST_area: 25920
Overlap_area: 18955
IOU: 0.5452636423783909
Centre Distance: 30.5
Category: False Positive

Frame: 286 Total Penalty: 239.39451052844998
GT_area: 28625
ST_area: 25920
Overlap_area: 19380
IOU: 0.5511161666429688
Centre Distance: 31.5
Category: False Positive

Frame: 287 Total Penalty: 240.780373632113
GT_area: 28413
ST_area: 25920
Overlap_area: 19007
IOU: 0.5380456321123251
Centre Distance: 32.5
Category: False Positive

Frame: 288 Total Penalty: 242.2164700654023
GT_area: 29358
ST_area: 25920
Overlap_area: 18942
IOU: 0.5213011889035667
Centre Distance: 35.0
Category: False Positive

Frame: 289 Total Penalty: 243.68072871657682
GT_area: 27951
ST_area: 25920
Overlap_area: 18240
IOU: 0.5119137829418203
Centre Distance: 34.5
Category: False Positive

Frame: 290 Total Penalty: 245.11774529116246
GT_area: 29140
ST_area: 25920
Overlap_area: 18860
IOU: 0.5209944751381216
Centre Distance: 34.0
Category: False Positive

Frame: 291 Total Penalty: 246.6492596158555
GT_area: 28670
ST_area: 25920
Overlap_area: 17940
IOU: 0.48949522510231924
Centre Distance: 37.0
Category: False Positive

Frame: 292 Total Penalty: 248.10688673449957
GT_area: 27144
ST_area: 25920
Overlap_area: 18018
IOU: 0.5141242937853108
Centre Distance: 34.0
Category: False Positive

Frame: 293 Total Penalty: 249.55665943657297
GT_area: 28798
ST_area: 25920
Overlap_area: 18642
IOU: 0.5167424326421998
Centre Distance: 35.5
Category: False Positive

Frame: 294 Total Penalty: 251.102711520773
GT_area: 27612
ST_area: 25920
Overlap_area: 17475
IOU: 0.4846493052666611
Centre Distance: 37.5
Category: False Positive

Frame: 295 Total Penalty: 252.6816457630209
GT_area: 27261
ST_area: 25920
Overlap_area: 17094
IOU: 0.47368858591736634

Centre Distance: 38.5
Category: False Positive

Frame: 296 Total Penalty: 254.250828152958
GT_area: 24804
ST_area: 25920
Overlap_area: 16380
IOU: 0.4769392033542977
Centre Distance: 37.0
Category: False Positive

Frame: 297 Total Penalty: 255.90109489866043
GT_area: 23000
ST_area: 25920
Overlap_area: 15180
IOU: 0.44991108476585656
Centre Distance: 38.0
Category: False Positive

Frame: 298 Total Penalty: 257.5744140451492
GT_area: 24232
ST_area: 25920
Overlap_area: 15378
IOU: 0.44222695117041466
Centre Distance: 40.0
Category: False Positive

Frame: 299 Total Penalty: 259.2226596591843
GT_area: 23690
ST_area: 25920
Overlap_area: 15410
IOU: 0.4505847953216374
Centre Distance: 38.5
Category: False Positive

Frame: 300 Total Penalty: 260.875364260519
GT_area: 23587
ST_area: 25920
Overlap_area: 15343
IOU: 0.44909846622175387
Centre Distance: 38.5
Category: False Positive

Frame: 301 Total Penalty: 262.5438392965451
GT_area: 25179
ST_area: 25920
Overlap_area: 15708
IOU: 0.4438416546579639
Centre Distance: 40.5
Category: False Positive

Frame: 302 Total Penalty: 264.14577600759475
GT_area: 24948
ST_area: 25920

Overlap_area: 16170
IOU: 0.4660210963167906
Centre Distance: 38.0
Category: False Positive

Frame: 303 Total Penalty: 265.75677479449325
GT_area: 24732
ST_area: 25920
Overlap_area: 16030
IOU: 0.4630004043671654
Centre Distance: 38.0
Category: False Positive

Frame: 304 Total Penalty: 267.41655114149427
GT_area: 25312
ST_area: 25920
Overlap_area: 15820
IOU: 0.4467412176663278
Centre Distance: 40.0
Category: False Positive

Frame: 305 Total Penalty: 269.0320959020772
GT_area: 24624
ST_area: 25920
Overlap_area: 15960
IOU: 0.4614850798056905
Centre Distance: 38.0
Category: False Positive

Frame: 306 Total Penalty: 270.754622917871
GT_area: 25538
ST_area: 25920
Overlap_area: 15368
IOU: 0.4258243280687171
Centre Distance: 42.5
Category: False Positive

Frame: 307 Total Penalty: 272.3595867234553
GT_area: 25080
ST_area: 25920
Overlap_area: 16188
IOU: 0.4650120648052396
Centre Distance: 38.0
Category: False Positive

Frame: 308 Total Penalty: 274.0131897575893
GT_area: 25650
ST_area: 25920
Overlap_area: 15975
IOU: 0.44879898862199746
Centre Distance: 40.0
Category: False Positive

Frame: 309 Total Penalty: 275.6562215424304

GT_area: 23976
ST_area: 25920
Overlap_area: 15540
IOU: 0.45232273838630804
Centre Distance: 38.0
Category: False Positive

Frame: 310 Total Penalty: 277.2798680670549
GT_area: 24198
ST_area: 25920
Overlap_area: 15762
IOU: 0.45878449179182673
Centre Distance: 37.5
Category: False Positive

Frame: 311 Total Penalty: 278.90773876642226
GT_area: 24530
ST_area: 25920
Overlap_area: 15833
IOU: 0.45737643354421237
Centre Distance: 38.0
Category: False Positive

Frame: 312 Total Penalty: 280.55201737338746
GT_area: 23108
ST_area: 25920
Overlap_area: 15260
IOU: 0.4519071310116086
Centre Distance: 37.0
Category: False Positive

Frame: 313 Total Penalty: 282.2476695473005
GT_area: 23976
ST_area: 25920
Overlap_area: 15120
IOU: 0.43478260869565216
Centre Distance: 39.5
Category: False Positive

Frame: 314 Total Penalty: 283.9446392442702
GT_area: 22360
ST_area: 25920
Overlap_area: 14620
IOU: 0.43434343434343436
Centre Distance: 38.0
Category: False Positive

Frame: 315 Total Penalty: 285.58526845775333
GT_area: 22578
ST_area: 25920
Overlap_area: 15123
IOU: 0.453123595505618
Centre Distance: 36.0
Category: False Positive

Frame: 316 Total Penalty: 287.22362462213687
GT_area: 21840
ST_area: 25920
Overlap_area: 14910
IOU: 0.45388127853881277
Centre Distance: 35.0
Category: False Positive

Frame: 317 Total Penalty: 288.9214133199256
GT_area: 23108
ST_area: 25920
Overlap_area: 14840
IOU: 0.43407043407043405
Centre Distance: 38.5
Category: False Positive

Frame: 318 Total Penalty: 290.599358182081
GT_area: 22366
ST_area: 25920
Overlap_area: 14770
IOU: 0.44068504594820385
Centre Distance: 37.0
Category: False Positive

Frame: 319 Total Penalty: 292.332738851292
GT_area: 22152
ST_area: 25920
Overlap_area: 14271
IOU: 0.4222064435963433
Centre Distance: 39.0
Category: False Positive

Frame: 320 Total Penalty: 293.99590608929395
GT_area: 21311
ST_area: 25920
Overlap_area: 14559
IOU: 0.4456109206660137
Centre Distance: 35.5
Category: False Positive

Frame: 321 Total Penalty: 295.6635488418562
GT_area: 21424
ST_area: 25920
Overlap_area: 14560
IOU: 0.4441190824792582
Centre Distance: 35.5
Category: False Positive

Frame: 322 Total Penalty: 297.42925188880923
GT_area: 19291
ST_area: 25920
Overlap_area: 13179
IOU: 0.4114323176823177

Centre Distance: 35.5
Category: False Positive

Frame: 323 Total Penalty: 299.2926030027094
GT_area: 18025
ST_area: 25920
Overlap_area: 12075
IOU: 0.3788829620332601
Centre Distance: 36.5
Category: False Positive

Frame: 324 Total Penalty: 301.1911481045523
GT_area: 16366
ST_area: 25920
Overlap_area: 11356
IOU: 0.367151632719043
Centre Distance: 35.0
Category: False Positive

Frame: 325 Total Penalty: 303.2113069923378
GT_area: 14157
ST_area: 25920
Overlap_area: 9867
IOU: 0.3266137040714995
Centre Distance: 34.5
Category: False Positive

Frame: 326 Total Penalty: 305.32681353954666
GT_area: 11656
ST_area: 25920
Overlap_area: 8556
IOU: 0.29483115093039286
Centre Distance: 32.0
Category: False Positive

Frame: 327 Total Penalty: 307.5585338550444
GT_area: 9434
ST_area: 25920
Overlap_area: 7208
IOU: 0.25609322816741276
Centre Distance: 30.5
Category: False Positive

Frame: 328 Total Penalty: 309.91282331149495
GT_area: 7482
ST_area: 25920
Overlap_area: 5916
IOU: 0.21523684784981445
Centre Distance: 29.0
Category: False Positive

Frame: 329 Total Penalty: 312.27314333498293
GT_area: 7138
ST_area: 25920

Overlap_area: 5810
IOU: 0.21322665883734587
Centre Distance: 27.0
Category: False Positive

Frame: 330 Total Penalty: 314.687774794089
GT_area: 6622
ST_area: 25920
Overlap_area: 5313
IOU: 0.1951228469646333
Centre Distance: 28.0
Category: False Positive

Frame: 331 Total Penalty: 317.21671334157503
GT_area: 5146
ST_area: 25920
Overlap_area: 4216
IOU: 0.15702048417132217
Centre Distance: 27.5
Category: False Positive

Frame: 332 Total Penalty: 319.84239146092403
GT_area: 3936
ST_area: 25920
Overlap_area: 3312
IOU: 0.12477396021699819
Centre Distance: 26.0
Category: False Positive

Frame: 333 Total Penalty: 322.5364569452351
GT_area: 3159
ST_area: 25920
Overlap_area: 2691
IOU: 0.10197817189631651
Centre Distance: 25.5
Category: False Positive

Frame: 334 Total Penalty: 325.2876764574302
GT_area: 2496
ST_area: 25920
Overlap_area: 2176
IOU: 0.08292682926829269
Centre Distance: 25.0
Category: False Positive

Frame: 335 Total Penalty: 328.10000396432997
GT_area: 1800
ST_area: 25920
Overlap_area: 1632
IOU: 0.062557497700092
Centre Distance: 23.5
Category: False Positive

Frame: 336 Total Penalty: 330.94201805371677

GT_area: 1425
ST_area: 25920
Overlap_area: 1368
IOU: 0.052661970204411594
Centre Distance: 19.5
Category: False Positive

Frame: 337 Total Penalty: 333.77242875976197
GT_area: 1554
ST_area: 25920
Overlap_area: 1470
IOU: 0.05652976465159206
Centre Distance: 21.0
Category: False Positive

Frame: 338 Total Penalty: 336.64916487087305
GT_area: 1065
ST_area: 25920
Overlap_area: 1065
IOU: 0.041087962962962965
Centre Distance: 17.5
Category: False Positive

Frame: 339 Total Penalty: 339.60657227828045
GT_area: 368
ST_area: 25920
Overlap_area: 368
IOU: 0.014197530864197531
Centre Distance: 30.0
Category: False Positive

Frame: 340 Total Penalty: 342.56397968568785
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 98.0
Category: False Positive

Frame: 341 Total Penalty: 345.52138709309526
GT_area: 6
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 107.0
Category: False Positive

Frame: 342 Total Penalty: 348.47879450050266
GT_area: 0
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 105.5
Category: False Positive

Frame: 343 Total Penalty: 351.43620190791006
GT_area: 3
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 125.5
Category: False Positive

Frame: 344 Total Penalty: 354.39360931531746
GT_area: 9
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 126.5
Category: False Positive

Frame: 345 Total Penalty: 357.35101672272486
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 117.0
Category: False Positive

Frame: 346 Total Penalty: 360.30842413013227
GT_area: 12
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 116.0
Category: False Positive

Frame: 347 Total Penalty: 363.26583153753967
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 148.0
Category: False Positive

Frame: 348 Total Penalty: 366.22323894494707
GT_area: 6
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 162.5
Category: False Positive

Frame: 349 Total Penalty: 369.1806463523545
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531

Centre Distance: 155.0
Category: False Positive

Frame: 350 Total Penalty: 372.1380537597619
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 139.0
Category: False Positive

Frame: 351 Total Penalty: 375.0954611671693
GT_area: 6
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 135.5
Category: False Positive

Frame: 352 Total Penalty: 378.0528685745767
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 145.0
Category: False Positive

Frame: 353 Total Penalty: 381.0102759819841
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 125.0
Category: False Positive

Frame: 354 Total Penalty: 383.9676833893915
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 118.0
Category: False Positive

Frame: 355 Total Penalty: 386.9250907967989
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 124.0
Category: False Positive

Frame: 356 Total Penalty: 389.8824982042063
GT_area: 8
ST_area: 25920

Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 149.0
Category: False Positive

Frame: 357 Total Penalty: 392.8399056116137
GT_area: 12
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 139.0
Category: False Positive

Frame: 358 Total Penalty: 395.7973130190211
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 166.0
Category: False Positive

Frame: 359 Total Penalty: 398.7547204264285
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 135.0
Category: False Positive

Frame: 360 Total Penalty: 401.7121278338359
GT_area: 12
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 131.0
Category: False Positive

Frame: 361 Total Penalty: 404.6695352412433
GT_area: 6
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 135.5
Category: False Positive

Frame: 362 Total Penalty: 407.6269426486507
GT_area: 9
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 119.5
Category: False Positive

Frame: 363 Total Penalty: 410.5843500560581

GT_area: 6
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 132.5
Category: False Positive

Frame: 364 Total Penalty: 413.5417574634655
GT_area: 0
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 152.0
Category: False Positive

Frame: 365 Total Penalty: 416.4991648708729
GT_area: 9
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 135.5
Category: False Positive

Frame: 366 Total Penalty: 419.4565722782803
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 132.0
Category: False Positive

Frame: 367 Total Penalty: 422.4139796856877
GT_area: 9
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 141.5
Category: False Positive

Frame: 368 Total Penalty: 425.3713870930951
GT_area: 4
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 148.0
Category: False Positive

Frame: 369 Total Penalty: 428.3287945005025
GT_area: 6
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 128.5
Category: False Positive

Frame: 370 Total Penalty: 431.2862019079099
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 155.0
Category: False Positive

Frame: 371 Total Penalty: 434.2436093153173
GT_area: 8
ST_area: 25920
Overlap_area: 0
IOU: 0.014197530864197531
Centre Distance: 158.0
Category: False Positive

Frame: 372 Total Penalty: 435.0297204264284
GT_area: 5544
ST_area: 25920
Overlap_area: 5544
IOU: 0.21388888888888888
Centre Distance: 8.0
Category: True Positive

Frame: 373 Total Penalty: 435.4177605498852
GT_area: 15862
ST_area: 25920
Overlap_area: 15862
IOU: 0.6119598765432098
Centre Distance: 0.5
Category: True Positive

Frame: 374 Total Penalty: 435.81590869803335
GT_area: 15600
ST_area: 25920
Overlap_area: 15600
IOU: 0.6018518518518519
Centre Distance: 1.0
Category: True Positive

Frame: 375 Total Penalty: 436.0094272165519
GT_area: 20904
ST_area: 25920
Overlap_area: 20904
IOU: 0.8064814814814815
Centre Distance: 1.0
Category: True Positive

Frame: 376 Total Penalty: 436.174269112272
GT_area: 22018
ST_area: 25920
Overlap_area: 21816
IOU: 0.8351581042799173

Centre Distance: 0.5
Category: True Positive

Frame: 377 Total Penalty: 436.33213948264233
GT_area: 21828
ST_area: 25920
Overlap_area: 21828
IOU: 0.8421296296296297
Centre Distance: 0.5
Category: True Positive

Frame: 378 Total Penalty: 436.48735727689626
GT_area: 23843
ST_area: 25920
Overlap_area: 22788
IOU: 0.8447822057460612
Centre Distance: 0.5
Category: True Positive

Frame: 379 Total Penalty: 436.6567103349665
GT_area: 23826
ST_area: 25920
Overlap_area: 22572
IOU: 0.8306469419297858
Centre Distance: 0.0
Category: True Positive

Frame: 380 Total Penalty: 436.79056326617626
GT_area: 23643
ST_area: 25920
Overlap_area: 23004
IOU: 0.8661470687902406
Centre Distance: 1.5
Category: True Positive

Frame: 381 Total Penalty: 436.9625238357272
GT_area: 24150
ST_area: 25920
Overlap_area: 22680
IOU: 0.828039430449069
Centre Distance: 0.5
Category: True Positive

Frame: 382 Total Penalty: 437.14241688385556
GT_area: 25134
ST_area: 25920
Overlap_area: 23004
IOU: 0.8201069518716577
Centre Distance: 0.0
Category: True Positive

Frame: 383 Total Penalty: 437.333780282776
GT_area: 26015
ST_area: 25920

Overlap_area: 23220
IOU: 0.8086366010795751
Centre Distance: 0.5
Category: True Positive

Frame: 384 Total Penalty: 437.52391895766044
GT_area: 26937
ST_area: 25920
Overlap_area: 23652
IOU: 0.8098613251155624
Centre Distance: 1.5
Category: True Positive

Frame: 385 Total Penalty: 437.7265591318575
GT_area: 26908
ST_area: 25920
Overlap_area: 23436
IOU: 0.7973598258029396
Centre Distance: 3.0
Category: True Positive

Frame: 386 Total Penalty: 437.9265591318575
GT_area: 26568
ST_area: 25920
Overlap_area: 23328
IOU: 0.8
Centre Distance: 2.5
Category: True Positive

Frame: 387 Total Penalty: 438.11966258013337
GT_area: 27528
ST_area: 25920
Overlap_area: 23868
IOU: 0.8068965517241379
Centre Distance: 2.0
Category: True Positive

Total Penalty: 438.11966258013337
True Positive: 122
False Positive: 188
True Negative: 8
False Negative: 68
Average Time: 0.0024206607452946006
>>>

RESTART: C:\ObjDetAPI\models-master\research\object_detection\0
Tracker_Evaluator.py
True

Frame: 2 Total Penalty: 0.040738707653701356
GT_area: 25038
ST_area: 24931
Overlap_area: 24465
IOU: 0.9592612923462986
Centre Distance: 2.0
Category: True Positive

Frame: 3 Total Penalty: 0.10710951242447442
 GT_area: 23868
 ST_area: 24931
 Overlap_area: 23562
 IOU: 0.9336291952292269
 Centre Distance: 1.5
 Category: True Positive

Frame: 4 Total Penalty: 0.2148460974208769
 GT_area: 25038
 ST_area: 24931
 Overlap_area: 23562
 IOU: 0.8922634150035975
 Centre Distance: 5.0
 Category: True Positive

Frame: 5 Total Penalty: 0.25901675859427153
 GT_area: 24440
 ST_area: 24931
 Overlap_area: 24128
 IOU: 0.9558293388266054
 Centre Distance: 0.5
 Category: True Positive

Frame: 6 Total Penalty: 0.3213458785372124
 GT_area: 23970
 ST_area: 24931
 Overlap_area: 23664
 IOU: 0.9376708800570591
 Centre Distance: 2.5
 Category: True Positive

Frame: 7 Total Penalty: 0.3695467219534423
 GT_area: 24592
 ST_area: 24931
 Overlap_area: 24150
 IOU: 0.9517991565837701
 Centre Distance: 1.5
 Category: True Positive

Frame: 8 Total Penalty: 0.4346693912370537
 GT_area: 24360
 ST_area: 24931
 Overlap_area: 23816
 IOU: 0.9348773307163886
 Centre Distance: 2.0
 Category: True Positive

Frame: 9 Total Penalty: 0.4915349103756217
 GT_area: 24514
 ST_area: 24931
 Overlap_area: 23999
 IOU: 0.943134480861432

Centre Distance: 1.0
Category: True Positive

Frame: 10 Total Penalty: 0.5641725439006833
 GT_area: 23200
 ST_area: 23712
 Overlap_area: 22572
 IOU: 0.9273623664749384
 Centre Distance: 3.0
 Category: True Positive

Frame: 11 Total Penalty: 0.6310842204875886
 GT_area: 23460
 ST_area: 24931
 Overlap_area: 23358
 IOU: 0.9330883234130947
 Centre Distance: 1.5
 Category: True Positive

Frame: 12 Total Penalty: 0.6723571150263525
 GT_area: 23129
 ST_area: 23712
 Overlap_area: 22927
 IOU: 0.9587271054612361
 Centre Distance: 1.5
 Category: True Positive

Frame: 13 Total Penalty: 0.7440556786677801
 GT_area: 23533
 ST_area: 24931
 Overlap_area: 23331
 IOU: 0.9283014363585724
 Centre Distance: 3.0
 Category: True Positive

Frame: 14 Total Penalty: 0.8023738679953862
 GT_area: 23300
 ST_area: 23712
 Overlap_area: 22800
 IOU: 0.9416818106723939
 Centre Distance: 1.0
 Category: True Positive

Frame: 15 Total Penalty: 0.9148478970828083
 GT_area: 22310
 ST_area: 24931
 Overlap_area: 22213
 IOU: 0.8875259709125779
 Centre Distance: 0.0
 Category: True Positive

Frame: 16 Total Penalty: 1.0485941307620852
 GT_area: 20884
 ST_area: 23712

Overlap_area: 20700
IOU: 0.8662537663207232
Centre Distance: 3.0
Category: True Positive

Frame: 17 Total Penalty: 1.1222096569457893
GT_area: 22344
ST_area: 23712
Overlap_area: 22148
IOU: 0.9263844738162959
Centre Distance: 1.0
Category: True Positive

Frame: 18 Total Penalty: 1.2275144867161774
GT_area: 21755
ST_area: 23712
Overlap_area: 21470
IOU: 0.894695170229612
Centre Distance: 1.5
Category: True Positive

Frame: 19 Total Penalty: 1.376183497263641
GT_area: 20520
ST_area: 23712
Overlap_area: 20340
IOU: 0.8513309894525364
Centre Distance: 3.0
Category: True Positive

Frame: 20 Total Penalty: 1.479090323113628
GT_area: 21111
ST_area: 22746
Overlap_area: 20739
IOU: 0.897093174150013
Centre Distance: 4.5
Category: True Positive

Frame: 21 Total Penalty: 1.5876119066519863
GT_area: 20384
ST_area: 21900
Overlap_area: 19929
IOU: 0.8914784164616417
Centre Distance: 2.5
Category: True Positive

Frame: 22 Total Penalty: 1.6865385613925945
GT_area: 20608
ST_area: 21900
Overlap_area: 20148
IOU: 0.9010733452593918
Centre Distance: 1.0
Category: True Positive

Frame: 23 Total Penalty: 1.7817424413997798

GT_area: 20516
ST_area: 21900
Overlap_area: 20148
IOU: 0.9047961199928148
Centre Distance: 1.0
Category: True Positive

Frame: 24 Total Penalty: 1.8614921061293281
GT_area: 21056
ST_area: 21900
Overlap_area: 20586
IOU: 0.9202503352704515
Centre Distance: 1.0
Category: True Positive

Frame: 25 Total Penalty: 1.950988823853617
GT_area: 21755
ST_area: 21900
Overlap_area: 20805
IOU: 0.9105032822757112
Centre Distance: 0.5
Category: True Positive

Frame: 26 Total Penalty: 2.02115642161898
GT_area: 21280
ST_area: 21900
Overlap_area: 20805
IOU: 0.9298324022346369
Centre Distance: 0.5
Category: True Positive

Frame: 27 Total Penalty: 2.0991533194696337
GT_area: 21470
ST_area: 21900
Overlap_area: 20805
IOU: 0.9220031021493463
Centre Distance: 0.5
Category: True Positive

Frame: 28 Total Penalty: 2.1692888643242796
GT_area: 22213
ST_area: 21070
Overlap_area: 20855
IOU: 0.929864455145354
Centre Distance: 0.5
Category: True Positive

Frame: 29 Total Penalty: 2.2599631087055765
GT_area: 21600
ST_area: 22746
Overlap_area: 21120
IOU: 0.9093257556187032
Centre Distance: 1.0
Category: True Positive

```
-----  
Frame: 30  Total Penalty: 2.336866400886646  
          GT_area: 22116  
          ST_area: 22746  
          Overlap_area: 21534  
          IOU: 0.92309670781893  
          Centre Distance: 0.5  
          Category: True Positive  
-----  
Frame: 31  Total Penalty: 2.412574833798903  
          GT_area: 22344  
          ST_area: 22746  
          Overlap_area: 21658  
          IOU: 0.9242915670877433  
          Centre Distance: 1.0  
          Category: True Positive  
-----  
Frame: 32  Total Penalty: 2.4996241101312044  
          GT_area: 22019  
          ST_area: 23712  
          Overlap_area: 21825  
          IOU: 0.9129507236676985  
          Centre Distance: 0.5  
          Category: True Positive  
-----  
Frame: 33  Total Penalty: 2.5804271214235506  
          GT_area: 22176  
          ST_area: 23712  
          Overlap_area: 21978  
          IOU: 0.9191969887076537  
          Centre Distance: 1.5  
          Category: True Positive  
-----  
Frame: 34  Total Penalty: 2.7009405514211737  
          GT_area: 23730  
          ST_area: 23712  
          Overlap_area: 22200  
          IOU: 0.879486570002377  
          Centre Distance: 4.5  
          Category: True Positive  
-----  
Frame: 35  Total Penalty: 2.8251829756635978  
          GT_area: 25536  
          ST_area: 22746  
          Overlap_area: 22542  
          IOU: 0.8757575757575757  
          Centre Distance: 5.0  
          Category: True Positive  
-----  
Frame: 36  Total Penalty: 2.9887804569514675  
          GT_area: 23625  
          ST_area: 22746  
          Overlap_area: 21120  
          IOU: 0.8364025187121302
```


Centre Distance: 7.5
Category: True Positive

Frame: 37 Total Penalty: 3.1292267939911333
 GT_area: 24416
 ST_area: 22746
 Overlap_area: 21800
 IOU: 0.8595536629603343
 Centre Distance: 5.5
 Category: True Positive

Frame: 38 Total Penalty: 3.295696128587392
 GT_area: 23712
 ST_area: 22746
 Overlap_area: 21120
 IOU: 0.8335306654037414
 Centre Distance: 7.0
 Category: True Positive

Frame: 39 Total Penalty: 3.4428094351634955
 GT_area: 24300
 ST_area: 23712
 Overlap_area: 22100
 IOU: 0.8528866934238962
 Centre Distance: 6.0
 Category: True Positive

Frame: 40 Total Penalty: 3.6004735584542713
 GT_area: 24182
 ST_area: 24592
 Overlap_area: 22300
 IOU: 0.8423358767092242
 Centre Distance: 6.5
 Category: True Positive

Frame: 41 Total Penalty: 3.743198303588655
 GT_area: 23504
 ST_area: 24592
 Overlap_area: 22200
 IOU: 0.8572752548656163
 Centre Distance: 5.0
 Category: True Positive

Frame: 42 Total Penalty: 3.8832085233127227
 GT_area: 23608
 ST_area: 23712
 Overlap_area: 21879
 IOU: 0.8599897802759325
 Centre Distance: 5.0
 Category: True Positive

Frame: 43 Total Penalty: 4.040639827396524
 GT_area: 23956
 ST_area: 24592

Overlap_area: 22200
IOU: 0.8425686959161985
Centre Distance: 6.0
Category: True Positive

Frame: 44 Total Penalty: 4.177120073676668
GT_area: 23504
ST_area: 23712
Overlap_area: 21879
IOU: 0.8635197537198563
Centre Distance: 5.0
Category: True Positive

Frame: 45 Total Penalty: 4.315172282512009
GT_area: 23625
ST_area: 24592
Overlap_area: 22321
IOU: 0.8619477911646586
Centre Distance: 4.5
Category: True Positive

Frame: 46 Total Penalty: 4.4569921496524385
GT_area: 23520
ST_area: 24592
Overlap_area: 22220
IOU: 0.8581801328595705
Centre Distance: 4.5
Category: True Positive

Frame: 47 Total Penalty: 4.579017466108135
GT_area: 23625
ST_area: 24592
Overlap_area: 22542
IOU: 0.8779746835443037
Centre Distance: 3.5
Category: True Positive

Frame: 48 Total Penalty: 4.711530311131435
GT_area: 23175
ST_area: 23712
Overlap_area: 21780
IOU: 0.8674871549766997
Centre Distance: 4.5
Category: True Positive

Frame: 49 Total Penalty: 4.840308234915929
GT_area: 22400
ST_area: 24592
Overlap_area: 21879
IOU: 0.871222076215506
Centre Distance: 4.0
Category: True Positive

Frame: 50 Total Penalty: 4.952076703096293

GT_area: 22644
ST_area: 24592
Overlap_area: 22220
IOU: 0.8882315318196354
Centre Distance: 3.0
Category: True Positive

Frame: 51 Total Penalty: 5.087193301175854
GT_area: 21631
ST_area: 24592
Overlap_area: 21437
IOU: 0.864883401920439
Centre Distance: 2.5
Category: True Positive

Frame: 52 Total Penalty: 5.238048036653453
GT_area: 21056
ST_area: 24592
Overlap_area: 20962
IOU: 0.8491452645224014
Centre Distance: 1.0
Category: True Positive

Frame: 53 Total Penalty: 5.369359470745699
GT_area: 20774
ST_area: 23712
Overlap_area: 20680
IOU: 0.8686885659077543
Centre Distance: 2.0
Category: True Positive

Frame: 54 Total Penalty: 5.496522135885377
GT_area: 22077
ST_area: 23712
Overlap_area: 21340
IOU: 0.8728373348603214
Centre Distance: 4.5
Category: True Positive

Frame: 55 Total Penalty: 5.574879085952854
GT_area: 21854
ST_area: 23712
Overlap_area: 21854
IOU: 0.9216430499325237
Centre Distance: 3.0
Category: True Positive

Frame: 56 Total Penalty: 5.6777412281850745
GT_area: 21825
ST_area: 23712
Overlap_area: 21534
IOU: 0.897137857767779
Centre Distance: 2.5
Category: True Positive

Frame: 57 Total Penalty: 5.771851986090378
 GT_area: 21854
 ST_area: 23712
 Overlap_area: 21658
 IOU: 0.9058892420946963
 Centre Distance: 2.0
 Category: True Positive

Frame: 58 Total Penalty: 5.862234178446531
 GT_area: 21756
 ST_area: 23712
 Overlap_area: 21658
 IOU: 0.9096178076438471
 Centre Distance: 2.0
 Category: True Positive

Frame: 59 Total Penalty: 5.984806792554415
 GT_area: 21534
 ST_area: 23712
 Overlap_area: 21146
 IOU: 0.8774273858921162
 Centre Distance: 0.5
 Category: True Positive

Frame: 60 Total Penalty: 6.102139666434498
 GT_area: 20962
 ST_area: 22746
 Overlap_area: 20492
 IOU: 0.8826671261199173
 Centre Distance: 1.0
 Category: True Positive

Frame: 61 Total Penalty: 6.166650171185609
 GT_area: 21658
 ST_area: 22746
 Overlap_area: 21462
 IOU: 0.9354894952488885
 Centre Distance: 0.0
 Category: True Positive

Frame: 62 Total Penalty: 6.240939887947856
 GT_area: 21243
 ST_area: 22746
 Overlap_area: 21146
 IOU: 0.9257102832377534
 Centre Distance: 0.5
 Category: True Positive

Frame: 63 Total Penalty: 6.314607667508191
 GT_area: 21681
 ST_area: 22746
 Overlap_area: 21364
 IOU: 0.9263322204396652

Centre Distance: 2.5
Category: True Positive

Frame: 64 Total Penalty: 6.361226183594861
 GT_area: 21879
 ST_area: 22746
 Overlap_area: 21780
 IOU: 0.953381483913329
 Centre Distance: 1.5
 Category: True Positive

Frame: 65 Total Penalty: 6.430072564314504
 GT_area: 23088
 ST_area: 22746
 Overlap_area: 22100
 IOU: 0.9311536192803573
 Centre Distance: 3.0
 Category: True Positive

Frame: 66 Total Penalty: 6.519670134549887
 GT_area: 22542
 ST_area: 22746
 Overlap_area: 21582
 IOU: 0.9104024297646166
 Centre Distance: 3.0
 Category: True Positive

Frame: 67 Total Penalty: 6.597270645079562
 GT_area: 22440
 ST_area: 22746
 Overlap_area: 21681
 IOU: 0.9223994894703255
 Centre Distance: 3.0
 Category: True Positive

Frame: 68 Total Penalty: 6.680800814716668
 GT_area: 21879
 ST_area: 22746
 Overlap_area: 21340
 IOU: 0.9164698303628945
 Centre Distance: 3.5
 Category: True Positive

Frame: 69 Total Penalty: 6.749096445868455
 GT_area: 22000
 ST_area: 22746
 Overlap_area: 21582
 IOU: 0.9317043688482127
 Centre Distance: 2.0
 Category: True Positive

Frame: 70 Total Penalty: 6.817366816866253
 GT_area: 22866
 ST_area: 22746

Overlap_area: 22000
IOU: 0.9317296290022022
Centre Distance: 2.5
Category: True Positive

Frame: 71 Total Penalty: 6.902903954662026
GT_area: 22644
ST_area: 22746
Overlap_area: 21681
IOU: 0.9144628622042262
Centre Distance: 3.0
Category: True Positive

Frame: 72 Total Penalty: 7.0024784958971455
GT_area: 22321
ST_area: 21900
Overlap_area: 20952
IOU: 0.9004254587648803
Centre Distance: 3.5
Category: True Positive

Frame: 73 Total Penalty: 7.092167228173343
GT_area: 23638
ST_area: 21900
Overlap_area: 21700
IOU: 0.9103112677238023
Centre Distance: 3.0
Category: True Positive

Frame: 74 Total Penalty: 7.161266607055331
GT_area: 22866
ST_area: 21900
Overlap_area: 21582
IOU: 0.9309006211180124
Centre Distance: 2.5
Category: True Positive

Frame: 75 Total Penalty: 7.304659485800442
GT_area: 23296
ST_area: 22746
Overlap_area: 21243
IOU: 0.8566071212548894
Centre Distance: 6.0
Category: True Positive

Frame: 76 Total Penalty: 7.404050966530665
GT_area: 24075
ST_area: 23712
Overlap_area: 22644
IOU: 0.9006085192697769
Centre Distance: 3.5
Category: True Positive

Frame: 77 Total Penalty: 7.539749486926317

GT_area: 22866
ST_area: 22746
Overlap_area: 21146
IOU: 0.8643014796043489
Centre Distance: 5.5
Category: True Positive

Frame: 78 Total Penalty: 7.63246417293258
 GT_area: 23540
 ST_area: 22746
 Overlap_area: 22018
 IOU: 0.9072853139937366
 Centre Distance: 3.5
 Category: True Positive

Frame: 79 Total Penalty: 7.714415741583421
 GT_area: 24525
 ST_area: 23712
 Overlap_area: 23088
 IOU: 0.918048431349159
 Centre Distance: 2.5
 Category: True Positive

Frame: 80 Total Penalty: 7.847852053370493
 GT_area: 23415
 ST_area: 23712
 Overlap_area: 21879
 IOU: 0.8665636882129277
 Centre Distance: 5.5
 Category: True Positive

Frame: 81 Total Penalty: 7.97428744561031
 GT_area: 23754
 ST_area: 22746
 Overlap_area: 21681
 IOU: 0.8735646077601837
 Centre Distance: 5.5
 Category: True Positive

Frame: 82 Total Penalty: 8.13179198066828
 GT_area: 23976
 ST_area: 22746
 Overlap_area: 21364
 IOU: 0.8424954649420301
 Centre Distance: 7.0
 Category: True Positive

Frame: 83 Total Penalty: 8.249015631053885
 GT_area: 24860
 ST_area: 22746
 Overlap_area: 22321
 IOU: 0.8827763496143959
 Centre Distance: 5.0
 Category: True Positive

Frame: 84 Total Penalty: 8.396133697369349
 GT_area: 25088
 ST_area: 22746
 Overlap_area: 22018
 IOU: 0.8528819336845367
 Centre Distance: 6.0
 Category: True Positive

Frame: 85 Total Penalty: 8.556714344956879
 GT_area: 25200
 ST_area: 23712
 Overlap_area: 22321
 IOU: 0.8394193524124703
 Centre Distance: 7.0
 Category: True Positive

Frame: 86 Total Penalty: 8.701879305138904
 GT_area: 25200
 ST_area: 23712
 Overlap_area: 22542
 IOU: 0.8548350398179749
 Centre Distance: 6.0
 Category: True Positive

Frame: 87 Total Penalty: 8.851788313328168
 GT_area: 25086
 ST_area: 23712
 Overlap_area: 22422
 IOU: 0.850090991810737
 Centre Distance: 6.5
 Category: True Positive

Frame: 88 Total Penalty: 8.999178869627155
 GT_area: 24743
 ST_area: 23712
 Overlap_area: 22300
 IOU: 0.8526094437010132
 Centre Distance: 6.5
 Category: True Positive

Frame: 89 Total Penalty: 9.137042947297058
 GT_area: 25197
 ST_area: 23712
 Overlap_area: 22644
 IOU: 0.8621359223300971
 Centre Distance: 5.5
 Category: True Positive

Frame: 90 Total Penalty: 9.27347293569396
 GT_area: 25197
 ST_area: 24592
 Overlap_area: 23072
 IOU: 0.8635700116030991

Centre Distance: 5.5
Category: True Positive

Frame: 91 Total Penalty: 9.402420698004992
 GT_area: 25410
 ST_area: 24592
 Overlap_area: 23278
 IOU: 0.8710522376889687
 Centre Distance: 5.0
 Category: True Positive

Frame: 92 Total Penalty: 9.548377969677832
 GT_area: 24961
 ST_area: 24592
 Overlap_area: 22826
 IOU: 0.8540427283271598
 Centre Distance: 6.5
 Category: True Positive

Frame: 93 Total Penalty: 9.647150975812801
 GT_area: 25872
 ST_area: 23712
 Overlap_area: 23504
 IOU: 0.9012269938650307
 Centre Distance: 4.0
 Category: True Positive

Frame: 94 Total Penalty: 9.766777961096205
 GT_area: 27028
 ST_area: 24592
 Overlap_area: 24168
 IOU: 0.8803730147165962
 Centre Distance: 5.0
 Category: True Positive

Frame: 95 Total Penalty: 9.856905213304634
 GT_area: 24486
 ST_area: 24592
 Overlap_area: 23381
 IOU: 0.909872747791571
 Centre Distance: 3.0
 Category: True Positive

Frame: 96 Total Penalty: 9.96808993230651
 GT_area: 25488
 ST_area: 25833
 Overlap_area: 24150
 IOU: 0.888815280998123
 Centre Distance: 3.5
 Category: True Positive

Frame: 97 Total Penalty: 10.094400886911119
 GT_area: 24360
 ST_area: 24592

Overlap_area: 22826
IOU: 0.8736890453953916
Centre Distance: 4.5
Category: True Positive

Frame: 98 Total Penalty: 10.182898521286361
GT_area: 24698
ST_area: 24592
Overlap_area: 23504
IOU: 0.9115023656247576
Centre Distance: 2.0
Category: True Positive

Frame: 99 Total Penalty: 10.271625710893584
GT_area: 24336
ST_area: 25833
Overlap_area: 23920
IOU: 0.9112728103927769
Centre Distance: 2.5
Category: True Positive

Frame: 100 Total Penalty: 10.376590196593911
GT_area: 24592
ST_area: 25833
Overlap_area: 23816
IOU: 0.8950355142996731
Centre Distance: 3.5
Category: True Positive

Frame: 101 Total Penalty: 10.481007717563156
GT_area: 25016
ST_area: 25833
Overlap_area: 24024
IOU: 0.8955824790307549
Centre Distance: 3.5
Category: True Positive

Frame: 102 Total Penalty: 10.587468003879557
GT_area: 25252
ST_area: 26862
Overlap_area: 24592
IOU: 0.8935397136835985
Centre Distance: 3.0
Category: True Positive

Frame: 103 Total Penalty: 10.736178170799132
GT_area: 24378
ST_area: 26862
Overlap_area: 23562
IOU: 0.8512898330804249
Centre Distance: 0.5
Category: True Positive

Frame: 104 Total Penalty: 10.86467102008406

GT_area: 24174
ST_area: 26862
Overlap_area: 23766
IOU: 0.8715071507150715
Centre Distance: 2.5
Category: True Positive

Frame: 105 Total Penalty: 10.993716941512883
GT_area: 25095
ST_area: 27911
Overlap_area: 24675
IOU: 0.8709540785711765
Centre Distance: 1.0
Category: True Positive

Frame: 106 Total Penalty: 11.0630787833781
GT_area: 26051
ST_area: 26862
Overlap_area: 25506
IOU: 0.9306381581347831
Centre Distance: 0.0
Category: True Positive

Frame: 107 Total Penalty: 11.238497243445053
GT_area: 30366
ST_area: 26862
Overlap_area: 25863
IOU: 0.8245815399330464
Centre Distance: 5.5
Category: True Positive

Frame: 108 Total Penalty: 11.526102019339186
GT_area: 35624
ST_area: 27911
Overlap_area: 26432
IOU: 0.7123952241058674
Centre Distance: 17.5
Category: True Positive

Frame: 109 Total Penalty: 12.908478897239897
GT_area: 42066
ST_area: 27911
Overlap_area: 24514
IOU: 0.5392077073664299
Centre Distance: 39.0
Category: False Positive

Frame: 110 Total Penalty: 14.460610684122146
GT_area: 45080
ST_area: 27911
Overlap_area: 23760
IOU: 0.482622737705917
Centre Distance: 49.5
Category: False Positive

Frame: 111 Total Penalty: 16.003088560228342
GT_area: 44896
ST_area: 28980
Overlap_area: 24156
IOU: 0.48584070796460177
Centre Distance: 50.5
Category: False Positive

Frame: 112 Total Penalty: 17.859600340333053
GT_area: 46995
ST_area: 28980
Overlap_area: 20967
IOU: 0.381162739965096
Centre Distance: 68.0
Category: False Positive

Frame: 113 Total Penalty: 19.964875292927434
GT_area: 47400
ST_area: 27911
Overlap_area: 17301
IOU: 0.2982416824685399
Centre Distance: 83.5
Category: False Positive

Frame: 114 Total Penalty: 22.05913896283686
GT_area: 45828
ST_area: 27911
Overlap_area: 17100
IOU: 0.3019121100301912
Centre Distance: 82.0
Category: False Positive

Frame: 115 Total Penalty: 23.532455783372775
GT_area: 45800
ST_area: 27911
Overlap_area: 24860
IOU: 0.5088943931546949
Centre Distance: 34.5
Category: False Positive

Frame: 116 Total Penalty: 24.976497364460087
GT_area: 44550
ST_area: 27911
Overlap_area: 24747
IOU: 0.5186528063042294
Centre Distance: 35.5
Category: False Positive

Frame: 117 Total Penalty: 26.421386346445843
GT_area: 44576
ST_area: 27911
Overlap_area: 24747
IOU: 0.5183703393380813

Centre Distance: 35.0
Category: False Positive

Frame: 118 Total Penalty: 27.845813341352464
GT_area: 43956
ST_area: 27911
Overlap_area: 24747
IOU: 0.5251910016977929
Centre Distance: 37.5
Category: False Positive

Frame: 119 Total Penalty: 29.25290749293914
GT_area: 42140
ST_area: 27911
Overlap_area: 24295
IOU: 0.5309686161377742
Centre Distance: 40.5
Category: False Positive

Frame: 120 Total Penalty: 30.87673180122149
GT_area: 37036
ST_area: 26862
Overlap_area: 20094
IOU: 0.45872523057255044
Centre Distance: 47.5
Category: False Positive

Frame: 121 Total Penalty: 32.731629944863286
GT_area: 32757
ST_area: 26862
Overlap_area: 16470
IOU: 0.38170061878606687
Centre Distance: 55.0
Category: False Positive

Frame: 122 Total Penalty: 34.659229831516726
GT_area: 30624
ST_area: 26862
Overlap_area: 15138
IOU: 0.35746670444885237
Centre Distance: 56.5
Category: False Positive

Frame: 123 Total Penalty: 36.61868380855894
GT_area: 29575
ST_area: 26862
Overlap_area: 14534
IOU: 0.34684867431926114
Centre Distance: 57.0
Category: False Positive

Frame: 124 Total Penalty: 38.5849920348861
GT_area: 29559
ST_area: 25833

Overlap_area: 14195
IOU: 0.3445639245576134
Centre Distance: 58.0
Category: False Positive

Frame: 125 Total Penalty: 39.21043141372247
GT_area: 26568
ST_area: 25833
Overlap_area: 14279
IOU: 0.37456062116363253
Centre Distance: 6.5
Category: True Positive

Frame: 126 Total Penalty: 39.865571966975914
GT_area: 22200
ST_area: 25833
Overlap_area: 12317
IOU: 0.34485944674655616
Centre Distance: 8.5
Category: True Positive

Frame: 127 Total Penalty: 40.51591753870027
GT_area: 20448
ST_area: 25833
Overlap_area: 11990
IOU: 0.34965442827564086
Centre Distance: 5.5
Category: True Positive

Frame: 128 Total Penalty: 41.14727007674875
GT_area: 20300
ST_area: 25833
Overlap_area: 12426
IOU: 0.3686474619515234
Centre Distance: 3.5
Category: True Positive

Frame: 129 Total Penalty: 41.77388145329251
GT_area: 19872
ST_area: 25833
Overlap_area: 12426
IOU: 0.37338862345623364
Centre Distance: 0.5
Category: True Positive

Frame: 130 Total Penalty: 42.38667596385846
GT_area: 19856
ST_area: 25833
Overlap_area: 12753
IOU: 0.3872054894340539
Centre Distance: 1.5
Category: True Positive

Frame: 131 Total Penalty: 42.99049702630021

GT_area: 19110
ST_area: 25833
Overlap_area: 12753
IOU: 0.3961789375582479
Centre Distance: 2.5
Category: True Positive

Frame: 132 Total Penalty: 43.59922362385553
GT_area: 19126
ST_area: 25833
Overlap_area: 12644
IOU: 0.3912734024446851
Centre Distance: 0.0
Category: True Positive

Frame: 133 Total Penalty: 44.19341573107817
GT_area: 19479
ST_area: 25833
Overlap_area: 13080
IOU: 0.4058078927773641
Centre Distance: 1.0
Category: True Positive

Frame: 134 Total Penalty: 44.778654157074
GT_area: 21014
ST_area: 25833
Overlap_area: 13734
IOU: 0.4147615740041675
Centre Distance: 1.0
Category: True Positive

Frame: 135 Total Penalty: 45.37852398264026
GT_area: 27946
ST_area: 25833
Overlap_area: 15369
IOU: 0.4001301744337412
Centre Distance: 2.0
Category: True Positive

Frame: 136 Total Penalty: 45.98459454471062
GT_area: 29322
ST_area: 25833
Overlap_area: 15587
IOU: 0.39392943792964014
Centre Distance: 0.5
Category: True Positive

Frame: 137 Total Penalty: 47.56806171523495
GT_area: 37740
ST_area: 24592
Overlap_area: 19992
IOU: 0.4721776098252244
Centre Distance: 47.5
Category: False Positive

```
-----  
Frame: 138 Total Penalty: 49.00667469272872  
GT_area: 40128  
ST_area: 24592  
Overlap_area: 22154  
IOU: 0.5204623408354085  
Centre Distance: 41.0  
Category: False Positive  
-----  
Frame: 139 Total Penalty: 50.54938933165787  
GT_area: 45114  
ST_area: 24592  
Overlap_area: 22790  
IOU: 0.48576178702361666  
Centre Distance: 32.0  
Category: False Positive  
-----  
Frame: 140 Total Penalty: 52.13317356540465  
GT_area: 46144  
ST_area: 24592  
Overlap_area: 22684  
IOU: 0.47207192208440857  
Centre Distance: 23.0  
Category: False Positive  
-----  
Frame: 141 Total Penalty: 53.79444299545646  
GT_area: 46864  
ST_area: 24592  
Overlap_area: 22048  
IOU: 0.44624352331606215  
Centre Distance: 15.0  
Category: False Positive  
-----  
Frame: 142 Total Penalty: 55.48648037266275  
GT_area: 47328  
ST_area: 24592  
Overlap_area: 21836  
IOU: 0.43598754093123554  
Centre Distance: 13.0  
Category: False Positive  
-----  
Frame: 143 Total Penalty: 57.22476608694846  
GT_area: 47502  
ST_area: 24592  
Overlap_area: 21344  
IOU: 0.4205714285714286  
Centre Distance: 62.5  
Category: False Positive  
-----  
Frame: 144 Total Penalty: 58.983950414499446  
GT_area: 45978  
ST_area: 24592  
Overlap_area: 20648  
IOU: 0.4136052241496735
```


Centre Distance: 61.0
Category: False Positive

Frame: 145 Total Penalty: 60.59774173792448
GT_area: 43384
ST_area: 24592
Overlap_area: 21483
IOU: 0.46206955885832274
Centre Distance: 53.5
Category: False Positive

Frame: 146 Total Penalty: 61.95344022480616
GT_area: 42320
ST_area: 24592
Overlap_area: 23690
IOU: 0.5481005043727731
Centre Distance: 42.0
Category: False Positive

Frame: 147 Total Penalty: 63.21585435630763
GT_area: 40656
ST_area: 23712
Overlap_area: 23608
IOU: 0.5791952894995093
Centre Distance: 33.0
Category: False Positive

Frame: 148 Total Penalty: 64.38565985183094
GT_area: 38868
ST_area: 23712
Overlap_area: 23712
IOU: 0.6100648348255634
Centre Distance: 24.0
Category: False Positive

Frame: 149 Total Penalty: 65.5432356094067
GT_area: 38610
ST_area: 23712
Overlap_area: 23712
IOU: 0.6141414141414141
Centre Distance: 22.5
Category: False Positive

Frame: 150 Total Penalty: 66.52280998037719
GT_area: 34950
ST_area: 23712
Overlap_area: 23608
IOU: 0.6734752096764991
Centre Distance: 15.0
Category: False Positive

Frame: 151 Total Penalty: 66.7954278097879
GT_area: 32802
ST_area: 24592

Overlap_area: 24168
IOU: 0.7273821705892975
Centre Distance: 10.0
Category: True Positive

Frame: 152 Total Penalty: 67.03731118128637
GT_area: 31455
ST_area: 24592
Overlap_area: 24168
IOU: 0.7581166285015214
Centre Distance: 5.5
Category: True Positive

Frame: 153 Total Penalty: 67.26272441761287
GT_area: 31020
ST_area: 24592
Overlap_area: 24274
IOU: 0.7745867636734954
Centre Distance: 4.0
Category: True Positive

Frame: 154 Total Penalty: 67.49111076958825
GT_area: 30654
ST_area: 24592
Overlap_area: 24062
IOU: 0.7716136480246281
Centre Distance: 0.5
Category: True Positive

Frame: 155 Total Penalty: 67.69894616053475
GT_area: 29845
ST_area: 24592
Overlap_area: 24062
IOU: 0.792164609053498
Centre Distance: 3.5
Category: True Positive

Frame: 156 Total Penalty: 67.88183988309399
GT_area: 29625
ST_area: 24592
Overlap_area: 24380
IOU: 0.8171062774407615
Centre Distance: 0.5
Category: True Positive

Frame: 157 Total Penalty: 68.08419551862482
GT_area: 30353
ST_area: 24592
Overlap_area: 24380
IOU: 0.7976443644691641
Centre Distance: 3.5
Category: True Positive

Frame: 158 Total Penalty: 68.30175573618504

GT_area: 30464
ST_area: 24592
Overlap_area: 24168
IOU: 0.7824397824397824
Centre Distance: 3.0
Category: True Positive

Frame: 159 Total Penalty: 68.50371516676663
GT_area: 30099
ST_area: 24592
Overlap_area: 24274
IOU: 0.7980405694184173
Centre Distance: 5.5
Category: True Positive

Frame: 160 Total Penalty: 68.6768820934437
GT_area: 29274
ST_area: 24592
Overlap_area: 24380
IOU: 0.8268330733229329
Centre Distance: 2.5
Category: True Positive

Frame: 161 Total Penalty: 68.86313754097974
GT_area: 29512
ST_area: 24592
Overlap_area: 24274
IOU: 0.8137445524639625
Centre Distance: 3.0
Category: True Positive

Frame: 162 Total Penalty: 69.01279175951362
GT_area: 28920
ST_area: 24592
Overlap_area: 24592
IOU: 0.8503457814661134
Centre Distance: 0.0
Category: True Positive

Frame: 163 Total Penalty: 69.24342622328537
GT_area: 31964
ST_area: 24592
Overlap_area: 24592
IOU: 0.7693655362282568
Centre Distance: 1.5
Category: True Positive

Frame: 164 Total Penalty: 69.47357899062821
GT_area: 31944
ST_area: 24592
Overlap_area: 24592
IOU: 0.76984723265715
Centre Distance: 1.0
Category: True Positive

Frame: 165 Total Penalty: 69.694217057248
GT_area: 31070
ST_area: 24592
Overlap_area: 24380
IOU: 0.7793619333802186
Centre Distance: 2.0
Category: True Positive

Frame: 166 Total Penalty: 69.93330242498834
GT_area: 32319
ST_area: 24592
Overlap_area: 24592
IOU: 0.7609146322596615
Centre Distance: 0.5
Category: True Positive

Frame: 167 Total Penalty: 70.18609775799757
GT_area: 32912
ST_area: 24592
Overlap_area: 24592
IOU: 0.7472046669907633
Centre Distance: 0.0
Category: True Positive

Frame: 168 Total Penalty: 70.42705253186692
GT_area: 31416
ST_area: 24592
Overlap_area: 24168
IOU: 0.7590452261306533
Centre Distance: 0.0
Category: True Positive

Frame: 169 Total Penalty: 70.6476905984867
GT_area: 31070
ST_area: 24592
Overlap_area: 24380
IOU: 0.7793619333802186
Centre Distance: 3.0
Category: True Positive

Frame: 170 Total Penalty: 70.86275603097953
GT_area: 31330
ST_area: 24592
Overlap_area: 24592
IOU: 0.7849345675071816
Centre Distance: 0.0
Category: True Positive

Frame: 171 Total Penalty: 71.10374368530051
GT_area: 32400
ST_area: 24592
Overlap_area: 24592
IOU: 0.7590123456790123

Centre Distance: 1.5
Category: True Positive

Frame: 172 Total Penalty: 71.34749329755934
GT_area: 32026
ST_area: 24592
Overlap_area: 24380
IOU: 0.756250387741175
Centre Distance: 2.0
Category: True Positive

Frame: 173 Total Penalty: 71.61338183154542
GT_area: 33499
ST_area: 24592
Overlap_area: 24592
IOU: 0.7341114660139109
Centre Distance: 0.5
Category: True Positive

Frame: 174 Total Penalty: 71.89190249170684
GT_area: 32568
ST_area: 24592
Overlap_area: 23956
IOU: 0.7214793398385737
Centre Distance: 1.0
Category: True Positive

Frame: 175 Total Penalty: 72.13676442588917
GT_area: 31088
ST_area: 24592
Overlap_area: 23956
IOU: 0.7551380658176775
Centre Distance: 2.0
Category: True Positive

Frame: 176 Total Penalty: 72.38883255240985
GT_area: 32880
ST_area: 24592
Overlap_area: 24592
IOU: 0.7479318734793188
Centre Distance: 2.5
Category: True Positive

Frame: 177 Total Penalty: 72.65316613394373
GT_area: 32232
ST_area: 23712
Overlap_area: 23712
IOU: 0.7356664184661206
Centre Distance: 2.0
Category: True Positive

Frame: 178 Total Penalty: 72.91145260225879
GT_area: 31725
ST_area: 23712

Overlap_area: 23608
IOU: 0.7417135316849414
Centre Distance: 3.5
Category: True Positive

Frame: 179 Total Penalty: 73.19241197572917
GT_area: 32480
ST_area: 23712
Overlap_area: 23504
IOU: 0.7190406265296133
Centre Distance: 3.0
Category: True Positive

Frame: 180 Total Penalty: 73.4679437582892
GT_area: 31740
ST_area: 23712
Overlap_area: 23296
IOU: 0.7244682174399801
Centre Distance: 2.0
Category: True Positive

Frame: 181 Total Penalty: 73.74750675990657
GT_area: 32665
ST_area: 23712
Overlap_area: 23608
IOU: 0.7204369983826178
Centre Distance: 1.5
Category: True Positive

Frame: 182 Total Penalty: 74.0146746481698
GT_area: 31373
ST_area: 23712
Overlap_area: 23296
IOU: 0.7328321117367643
Centre Distance: 3.5
Category: True Positive

Frame: 183 Total Penalty: 74.25683470021924
GT_area: 30324
ST_area: 23712
Overlap_area: 23296
IOU: 0.757839947950553
Centre Distance: 1.5
Category: True Positive

Frame: 184 Total Penalty: 74.49662062894917
GT_area: 30228
ST_area: 23712
Overlap_area: 23296
IOU: 0.7602140712700692
Centre Distance: 4.0
Category: True Positive

Frame: 185 Total Penalty: 74.71596432497681

GT_area: 29900
ST_area: 23712
Overlap_area: 23504
IOU: 0.7806563039723662
Centre Distance: 4.0
Category: True Positive

Frame: 186 Total Penalty: 74.94475609875573
GT_area: 30030
ST_area: 23712
Overlap_area: 23400
IOU: 0.7712082262210797
Centre Distance: 4.0
Category: True Positive

Frame: 187 Total Penalty: 75.14295491160966
GT_area: 29106
ST_area: 23712
Overlap_area: 23504
IOU: 0.8018011871460735
Centre Distance: 3.0
Category: True Positive

Frame: 188 Total Penalty: 75.34107997529635
GT_area: 29337
ST_area: 23712
Overlap_area: 23608
IOU: 0.8018749363133045
Centre Distance: 2.5
Category: True Positive

Frame: 189 Total Penalty: 75.51585780009533
GT_area: 28044
ST_area: 23712
Overlap_area: 23400
IOU: 0.8252221752010157
Centre Distance: 3.5
Category: True Positive

Frame: 190 Total Penalty: 75.68436039408297
GT_area: 27830
ST_area: 23712
Overlap_area: 23400
IOU: 0.8314974060123659
Centre Distance: 2.5
Category: True Positive

Frame: 191 Total Penalty: 75.83922543310352
GT_area: 27830
ST_area: 23712
Overlap_area: 23608
IOU: 0.8451349609794515
Centre Distance: 2.5
Category: True Positive

Frame: 192 Total Penalty: 75.97901678928832
GT_area: 26216
ST_area: 23712
Overlap_area: 23088
IOU: 0.8602086438152012
Centre Distance: 4.0
Category: True Positive

Frame: 193 Total Penalty: 76.17365889895764
GT_area: 28044
ST_area: 23712
Overlap_area: 23088
IOU: 0.8053578903306823
Centre Distance: 2.5
Category: True Positive

Frame: 194 Total Penalty: 76.306735366059
GT_area: 26680
ST_area: 23712
Overlap_area: 23400
IOU: 0.8669235328986367
Centre Distance: 5.0
Category: True Positive

Frame: 195 Total Penalty: 76.4919310552252
GT_area: 27480
ST_area: 23712
Overlap_area: 22984
IOU: 0.814804310833806
Centre Distance: 4.0
Category: True Positive

Frame: 196 Total Penalty: 76.67355589571861
GT_area: 27588
ST_area: 23712
Overlap_area: 23088
IOU: 0.8183751595065929
Centre Distance: 1.5
Category: True Positive

Frame: 197 Total Penalty: 76.81816532115437
GT_area: 27140
ST_area: 24592
Overlap_area: 23850
IOU: 0.855390574564235
Centre Distance: 3.0
Category: True Positive

Frame: 198 Total Penalty: 76.92201089948745
GT_area: 26096
ST_area: 24592
Overlap_area: 23956
IOU: 0.8961544216669161

Centre Distance: 2.0
Category: True Positive

Frame: 199 Total Penalty: 77.04860847520064
GT_area: 26565
ST_area: 24592
Overlap_area: 23850
IOU: 0.8734024242868129
Centre Distance: 0.5
Category: True Positive

Frame: 200 Total Penalty: 77.1319734148957
GT_area: 25942
ST_area: 24592
Overlap_area: 24168
IOU: 0.9166350603049381
Centre Distance: 0.5
Category: True Positive

Frame: 201 Total Penalty: 77.17835539305104
GT_area: 25680
ST_area: 25833
Overlap_area: 25145
IOU: 0.9536180218446602
Centre Distance: 1.0
Category: True Positive

Frame: 202 Total Penalty: 77.3067491193896
GT_area: 26076
ST_area: 25833
Overlap_area: 24174
IOU: 0.8716062736614386
Centre Distance: 5.5
Category: True Positive

Frame: 203 Total Penalty: 77.4453227497665
GT_area: 28548
ST_area: 24592
Overlap_area: 24592
IOU: 0.8614263696230909
Centre Distance: 4.5
Category: True Positive

Frame: 204 Total Penalty: 77.5103099306828
GT_area: 26244
ST_area: 25833
Overlap_area: 25164
IOU: 0.9350128190837141
Centre Distance: 0.5
Category: True Positive

Frame: 205 Total Penalty: 77.55909041848767
GT_area: 26487
ST_area: 25833

Overlap_area: 25506
IOU: 0.9512195121951219
Centre Distance: 0.0
Category: True Positive

Frame: 206 Total Penalty: 77.68248762857644
GT_area: 27440
ST_area: 25833
Overlap_area: 24885
IOU: 0.8766027899112301
Centre Distance: 5.5
Category: True Positive

Frame: 207 Total Penalty: 77.7738667569926
GT_area: 28431
ST_area: 25833
Overlap_area: 25833
IOU: 0.9086208715838345
Centre Distance: 2.0
Category: True Positive

Frame: 208 Total Penalty: 77.88430064129012
GT_area: 29040
ST_area: 25833
Overlap_area: 25833
IOU: 0.8895661157024793
Centre Distance: 1.5
Category: True Positive

Frame: 209 Total Penalty: 77.99104337987933
GT_area: 28920
ST_area: 25833
Overlap_area: 25833
IOU: 0.8932572614107884
Centre Distance: 2.5
Category: True Positive

Frame: 210 Total Penalty: 78.11610133841414
GT_area: 29750
ST_area: 26862
Overlap_area: 26418
IOU: 0.8749420414651917
Centre Distance: 3.0
Category: True Positive

Frame: 211 Total Penalty: 78.22121563648754
GT_area: 29036
ST_area: 27911
Overlap_area: 26894
IOU: 0.8948857019265963
Centre Distance: 2.5
Category: True Positive

Frame: 212 Total Penalty: 78.33336115825969

GT_area: 29274
ST_area: 27911
Overlap_area: 26894
IOU: 0.8878544782278565
Centre Distance: 1.0
Category: True Positive

Frame: 213 Total Penalty: 78.4206965247264
GT_area: 29161
ST_area: 27911
Overlap_area: 27233
IOU: 0.9126646335332953
Centre Distance: 1.0
Category: True Positive

Frame: 214 Total Penalty: 78.55328804222357
GT_area: 29988
ST_area: 27911
Overlap_area: 26894
IOU: 0.8674084825028221
Centre Distance: 1.5
Category: True Positive

Frame: 215 Total Penalty: 78.68628953234753
GT_area: 30976
ST_area: 27911
Overlap_area: 27346
IOU: 0.8669985098760343
Centre Distance: 1.5
Category: True Positive

Frame: 216 Total Penalty: 78.88640355743306
GT_area: 34160
ST_area: 28980
Overlap_area: 28060
IOU: 0.7998859749144812
Centre Distance: 1.5
Category: True Positive

Frame: 217 Total Penalty: 79.09619376722327
GT_area: 35321
ST_area: 27911
Overlap_area: 27911
IOU: 0.7902097902097902
Centre Distance: 7.0
Category: True Positive

Frame: 218 Total Penalty: 79.31020486105123
GT_area: 32943
ST_area: 27911
Overlap_area: 26781
IOU: 0.7859889061720424
Centre Distance: 0.0
Category: True Positive

Frame: 219 Total Penalty: 79.54486101091567
GT_area: 35478
ST_area: 28980
Overlap_area: 27945
IOU: 0.7653438501355682
Centre Distance: 2.5
Category: True Positive

Frame: 220 Total Penalty: 79.78710907293117
GT_area: 34510
ST_area: 28980
Overlap_area: 27370
IOU: 0.7577519379844961
Centre Distance: 7.0
Category: True Positive

Frame: 221 Total Penalty: 80.0071645313675
GT_area: 31144
ST_area: 27911
Overlap_area: 25877
IOU: 0.7799445415636868
Centre Distance: 8.5
Category: True Positive

Frame: 222 Total Penalty: 80.2066626094513
GT_area: 28767
ST_area: 27911
Overlap_area: 25199
IOU: 0.8005019219161981
Centre Distance: 1.0
Category: True Positive

Frame: 223 Total Penalty: 80.40549340079001
GT_area: 28288
ST_area: 26862
Overlap_area: 24531
IOU: 0.8011692086612887
Centre Distance: 4.5
Category: True Positive

Frame: 224 Total Penalty: 80.59586539203727
GT_area: 27720
ST_area: 26862
Overlap_area: 24420
IOU: 0.8096280087527352
Centre Distance: 4.5
Category: True Positive

Frame: 225 Total Penalty: 80.82585113251395
GT_area: 25272
ST_area: 26862
Overlap_area: 22680
IOU: 0.7700142595233245

Centre Distance: 9.0
Category: True Positive

Frame: 226 Total Penalty: 81.11150239159221
GT_area: 23653
ST_area: 26862
Overlap_area: 21049
IOU: 0.7143487409217403
Centre Distance: 13.0
Category: True Positive

Frame: 227 Total Penalty: 82.02999265459161
GT_area: 23760
ST_area: 26862
Overlap_area: 20736
IOU: 0.6938365790002008
Centre Distance: 14.5
Category: False Positive

Frame: 228 Total Penalty: 82.32309956105681
GT_area: 24198
ST_area: 26862
Overlap_area: 21146
IOU: 0.7068930935347998
Centre Distance: 14.0
Category: True Positive

Frame: 229 Total Penalty: 82.591343346141
GT_area: 24966
ST_area: 26862
Overlap_area: 21900
IOU: 0.7317562149157979
Centre Distance: 12.5
Category: True Positive

Frame: 230 Total Penalty: 82.8644084238057
GT_area: 24725
ST_area: 26862
Overlap_area: 21715
IOU: 0.7269349223352972
Centre Distance: 12.0
Category: True Positive

Frame: 231 Total Penalty: 83.11323758283645
GT_area: 24738
ST_area: 26862
Overlap_area: 22134
IOU: 0.7511708409692527
Centre Distance: 10.5
Category: True Positive

Frame: 232 Total Penalty: 83.36134421718967
GT_area: 25185
ST_area: 26862

Overlap_area: 22338
IOU: 0.7518933656467737
Centre Distance: 11.0
Category: True Positive

Frame: 233 Total Penalty: 83.59268750077176
GT_area: 25752
ST_area: 26862
Overlap_area: 22866
IOU: 0.7686567164179104
Centre Distance: 10.5
Category: True Positive

Frame: 234 Total Penalty: 83.8348310775161
GT_area: 26180
ST_area: 27911
Overlap_area: 23320
IOU: 0.7578564232556628
Centre Distance: 10.0
Category: True Positive

Frame: 235 Total Penalty: 84.02771595871138
GT_area: 27000
ST_area: 27911
Overlap_area: 24525
IOU: 0.8071151188047127
Centre Distance: 7.5
Category: True Positive

Frame: 236 Total Penalty: 84.23878379382985
GT_area: 27206
ST_area: 27911
Overlap_area: 24307
IOU: 0.788932164881532
Centre Distance: 8.5
Category: True Positive

Frame: 237 Total Penalty: 84.4448677698367
GT_area: 26520
ST_area: 27911
Overlap_area: 24089
IOU: 0.7939160239931449
Centre Distance: 7.5
Category: True Positive

Frame: 238 Total Penalty: 84.64582327894391
GT_area: 26314
ST_area: 27911
Overlap_area: 24084
IOU: 0.7990444908928038
Centre Distance: 7.5
Category: True Positive

Frame: 239 Total Penalty: 84.89980146890866

GT_area: 25086
ST_area: 27911
Overlap_area: 22644
IOU: 0.7460218100352519
Centre Distance: 11.0
Category: True Positive

Frame: 240 Total Penalty: 85.91112222362564
GT_area: 23647
ST_area: 27911
Overlap_area: 20553
IOU: 0.6628930817610063
Centre Distance: 17.0
Category: False Positive

Frame: 241 Total Penalty: 87.11897573192773
GT_area: 20855
ST_area: 26862
Overlap_area: 17845
IOU: 0.5973821638993037
Centre Distance: 21.0
Category: False Positive

Frame: 242 Total Penalty: 88.52463801706423
GT_area: 18576
ST_area: 26862
Overlap_area: 15768
IOU: 0.5314459049544995
Centre Distance: 25.5
Category: False Positive

Frame: 243 Total Penalty: 89.97078018589798
GT_area: 19135
ST_area: 26862
Overlap_area: 15695
IOU: 0.5179526103887532
Centre Distance: 27.0
Category: False Positive

Frame: 244 Total Penalty: 91.57732121690805
GT_area: 17200
ST_area: 26862
Overlap_area: 13975
IOU: 0.46448632299664305
Centre Distance: 30.5
Category: False Positive

Frame: 245 Total Penalty: 93.32146351774628
GT_area: 16125
ST_area: 26862
Overlap_area: 12685
IOU: 0.41861923305392384
Centre Distance: 34.0
Category: False Positive

```
-----  
Frame: 246 Total Penalty: 95.12025017093131  
GT_area: 14688  
ST_area: 26862  
Overlap_area: 11880  
IOU: 0.40040444893832156  
Centre Distance: 34.5  
Category: False Positive  
-----  
Frame: 247 Total Penalty: 96.89173116884938  
GT_area: 13082  
ST_area: 26862  
Overlap_area: 11605  
IOU: 0.4095063340273122  
Centre Distance: 31.5  
Category: False Positive  
-----  
Frame: 248 Total Penalty: 98.64464158185937  
GT_area: 12660  
ST_area: 26862  
Overlap_area: 11605  
IOU: 0.4156965289966687  
Centre Distance: 30.5  
Category: False Positive  
-----  
Frame: 249 Total Penalty: 100.33291092535293  
GT_area: 12369  
ST_area: 26862  
Overlap_area: 11935  
IOU: 0.43724355216881594  
Centre Distance: 29.0  
Category: False Positive  
-----  
Frame: 250 Total Penalty: 102.04653303660598  
GT_area: 11077  
ST_area: 25833  
Overlap_area: 11077  
IOU: 0.4287926295823172  
Centre Distance: 27.0  
Category: False Positive  
-----  
Frame: 251 Total Penalty: 103.72293186549342  
GT_area: 10850  
ST_area: 24592  
Overlap_area: 10850  
IOU: 0.4412003903708523  
Centre Distance: 26.0  
Category: False Positive  
-----  
Frame: 252 Total Penalty: 105.48740811793324  
GT_area: 10128  
ST_area: 24592  
Overlap_area: 10128  
IOU: 0.4118412491867274
```


Centre Distance: 25.0
Category: False Positive

Frame: 253 Total Penalty: 107.38583036907183
GT_area: 9030
ST_area: 24592
Overlap_area: 9030
IOU: 0.36719258295380613
Centre Distance: 22.5
Category: False Positive

Frame: 254 Total Penalty: 109.4401569793516
GT_area: 7752
ST_area: 24592
Overlap_area: 7752
IOU: 0.3152244632400781
Centre Distance: 20.0
Category: False Positive

Frame: 255 Total Penalty: 111.47594097414665
GT_area: 7904
ST_area: 24592
Overlap_area: 7904
IOU: 0.3214053350683149
Centre Distance: 20.0
Category: False Positive

Frame: 256 Total Penalty: 113.6534460348754
GT_area: 6501
ST_area: 23712
Overlap_area: 6501
IOU: 0.27416497975708504
Centre Distance: 17.5
Category: False Positive

Frame: 257 Total Penalty: 116.01199866645435
GT_area: 5070
ST_area: 23712
Overlap_area: 5070
IOU: 0.2138157894736842
Centre Distance: 14.0
Category: False Positive

Frame: 258 Total Penalty: 118.46493388912641
GT_area: 4324
ST_area: 23712
Overlap_area: 4324
IOU: 0.1823549257759784
Centre Distance: 12.5
Category: False Positive

Frame: 259 Total Penalty: 119.35954421301305
GT_area: 2499
ST_area: 23712

Overlap_area: 2499
IOU: 0.10538967611336032
Centre Distance: 9.5
Category: True Positive

Frame: 260 Total Penalty: 120.32664947617094
GT_area: 780
ST_area: 23712
Overlap_area: 780
IOU: 0.03289473684210526
Centre Distance: 6.0
Category: True Positive

Frame: 261 Total Penalty: 121.30376332437334
GT_area: 870
ST_area: 23712
Overlap_area: 550
IOU: 0.022886151797603196
Centre Distance: 6.0
Category: True Positive

Frame: 262 Total Penalty: 122.29128019346915
GT_area: 296
ST_area: 23712
Overlap_area: 296
IOU: 0.012483130904183536
Centre Distance: 5.0
Category: True Positive

Frame: 263 Total Penalty: 125.2538308007566
GT_area: 12
ST_area: 23712
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 304.5
Category: False Positive

Frame: 264 Total Penalty: 128.21638140804404
GT_area: 9
ST_area: 23712
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 316.5
Category: False Positive

Frame: 265 Total Penalty: 131.1789320153315
GT_area: 6
ST_area: 23712
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 294.5
Category: False Positive

Frame: 266 Total Penalty: 134.14148262261895

GT_area: 20
ST_area: 22746
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 308.0
Category: False Positive

Frame: 267 Total Penalty: 137.1040332299064
GT_area: 12
ST_area: 22746
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 302.0
Category: False Positive

Frame: 268 Total Penalty: 140.06658383719386
GT_area: 2
ST_area: 22746
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 301.5
Category: False Positive

Frame: 269 Total Penalty: 143.02913444448131
GT_area: 2
ST_area: 22746
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 298.0
Category: False Positive

Frame: 270 Total Penalty: 145.99168505176877
GT_area: 16
ST_area: 21900
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 304.0
Category: False Positive

Frame: 271 Total Penalty: 148.95423565905622
GT_area: 20
ST_area: 21070
Overlap_area: 0
IOU: 0.012483130904183536
Centre Distance: 301.5
Category: False Positive

Frame: 272 Total Penalty: 151.91941648327827
GT_area: 3800
ST_area: 20256
Overlap_area: 276
IOU: 0.011606391925988226
Centre Distance: 60.0
Category: False Positive

Frame: 273 Total Penalty: 153.85585608824155
GT_area: 7175
ST_area: 19570
Overlap_area: 7000
IOU: 0.35452013167890606
Centre Distance: 18.0
Category: False Positive

Frame: 274 Total Penalty: 155.74747398121815
GT_area: 7420
ST_area: 18786
Overlap_area: 7070
IOU: 0.36946070234113715
Centre Distance: 18.0
Category: False Positive

Frame: 275 Total Penalty: 157.47830625220703
GT_area: 12470
ST_area: 18786
Overlap_area: 9292
IOU: 0.4230559096703697
Centre Distance: 29.5
Category: False Positive

Frame: 276 Total Penalty: 158.75331635956968
GT_area: 16275
ST_area: 18786
Overlap_area: 12800
IOU: 0.5749966308791159
Centre Distance: 20.0
Category: False Positive

Frame: 277 Total Penalty: 158.98843752849342
GT_area: 20832
ST_area: 18786
Overlap_area: 17170
IOU: 0.7648788310762652
Centre Distance: 9.5
Category: True Positive

Frame: 278 Total Penalty: 159.26190312775088
GT_area: 25857
ST_area: 18786
Overlap_area: 18786
IOU: 0.7265344007425455
Centre Distance: 0.0
Category: True Positive

Frame: 279 Total Penalty: 159.60621545017537
GT_area: 28416
ST_area: 18786
Overlap_area: 18693
IOU: 0.6556876775755025

Centre Distance: 2.5
Category: True Positive

Frame: 280 Total Penalty: 159.93227823044444
GT_area: 27875
ST_area: 18786
Overlap_area: 18786
IOU: 0.6739372197309417
Centre Distance: 3.0
Category: True Positive

Frame: 281 Total Penalty: 160.2639072350211
GT_area: 27875
ST_area: 18786
Overlap_area: 18693
IOU: 0.668370995423341
Centre Distance: 4.0
Category: True Positive

Frame: 282 Total Penalty: 160.61369264274643
GT_area: 28892
ST_area: 18786
Overlap_area: 18786
IOU: 0.6502145922746781
Centre Distance: 3.5
Category: True Positive

Frame: 283 Total Penalty: 160.93839933701835
GT_area: 28980
ST_area: 19570
Overlap_area: 19570
IOU: 0.6752933057280883
Centre Distance: 3.5
Category: True Positive

Frame: 284 Total Penalty: 161.30539377355606
GT_area: 30916
ST_area: 19570
Overlap_area: 19570
IOU: 0.6330055634622849
Centre Distance: 6.0
Category: True Positive

Frame: 285 Total Penalty: 161.6411981511691
GT_area: 27798
ST_area: 19570
Overlap_area: 18905
IOU: 0.6641956223869585
Centre Distance: 4.0
Category: True Positive

Frame: 286 Total Penalty: 161.96309926537523
GT_area: 28625
ST_area: 19570

Overlap_area: 19475
IOU: 0.6780988857938719
Centre Distance: 5.0
Category: True Positive

Frame: 287 Total Penalty: 162.27433004002063
GT_area: 28413
ST_area: 19570
Overlap_area: 19570
IOU: 0.6887692253545912
Centre Distance: 5.0
Category: True Positive

Frame: 288 Total Penalty: 162.6077314978856
GT_area: 29358
ST_area: 19570
Overlap_area: 19570
IOU: 0.6665985421350228
Centre Distance: 6.5
Category: True Positive

Frame: 289 Total Penalty: 162.90640804632392
GT_area: 27951
ST_area: 20256
Overlap_area: 19872
IOU: 0.7013234515616729
Centre Distance: 5.5
Category: True Positive

Frame: 290 Total Penalty: 163.2168472308909
GT_area: 29140
ST_area: 20256
Overlap_area: 20160
IOU: 0.6895608154330278
Centre Distance: 4.0
Category: True Positive

Frame: 291 Total Penalty: 163.5160198652509
GT_area: 28670
ST_area: 20256
Overlap_area: 20160
IOU: 0.7008273656399917
Centre Distance: 5.0
Category: True Positive

Frame: 292 Total Penalty: 163.76977760176726
GT_area: 27144
ST_area: 20256
Overlap_area: 20256
IOU: 0.7462422634836428
Centre Distance: 1.0
Category: True Positive

Frame: 293 Total Penalty: 164.06639542244926

GT_area: 28798
ST_area: 20256
Overlap_area: 20256
IOU: 0.7033821793180082
Centre Distance: 3.5
Category: True Positive

Frame: 294 Total Penalty: 164.33280133292297
GT_area: 27612
ST_area: 20256
Overlap_area: 20256
IOU: 0.7335940895262929
Centre Distance: 5.5
Category: True Positive

Frame: 295 Total Penalty: 164.60195224539154
GT_area: 27261
ST_area: 20256
Overlap_area: 20064
IOU: 0.7308490875314173
Centre Distance: 6.5
Category: True Positive

Frame: 296 Total Penalty: 164.81296659791533
GT_area: 24804
ST_area: 19570
Overlap_area: 19570
IOU: 0.7889856474762135
Centre Distance: 5.5
Category: True Positive

Frame: 297 Total Penalty: 165.02611300489988
GT_area: 23000
ST_area: 19570
Overlap_area: 18746
IOU: 0.7868535930154467
Centre Distance: 6.5
Category: True Positive

Frame: 298 Total Penalty: 165.27794889251163
GT_area: 24232
ST_area: 19570
Overlap_area: 18746
IOU: 0.7481641123882503
Centre Distance: 8.5
Category: True Positive

Frame: 299 Total Penalty: 165.48307709763984
GT_area: 23690
ST_area: 19570
Overlap_area: 19158
IOU: 0.7948717948717948
Centre Distance: 6.0
Category: True Positive

Frame: 300 Total Penalty: 165.68662142290376
GT_area: 23587
ST_area: 18786
Overlap_area: 18786
IOU: 0.7964556747360835
Centre Distance: 5.0
Category: True Positive

Frame: 301 Total Penalty: 165.94052348414527
GT_area: 25179
ST_area: 18786
Overlap_area: 18786
IOU: 0.7460979387584892
Centre Distance: 7.0
Category: True Positive

Frame: 302 Total Penalty: 166.18751723113903
GT_area: 24948
ST_area: 18786
Overlap_area: 18786
IOU: 0.753006253006253
Centre Distance: 5.5
Category: True Positive

Frame: 303 Total Penalty: 166.4279345043074
GT_area: 24732
ST_area: 18786
Overlap_area: 18786
IOU: 0.7595827268316351
Centre Distance: 5.5
Category: True Positive

Frame: 304 Total Penalty: 166.6857568810457
GT_area: 25312
ST_area: 18786
Overlap_area: 18786
IOU: 0.742177623261694
Centre Distance: 8.5
Category: True Positive

Frame: 305 Total Penalty: 166.95403173484686
GT_area: 24624
ST_area: 18018
Overlap_area: 18018
IOU: 0.7317251461988304
Centre Distance: 5.5
Category: True Positive

Frame: 306 Total Penalty: 167.2484948877954
GT_area: 25538
ST_area: 18018
Overlap_area: 18018
IOU: 0.7055368470514527

Centre Distance: 10.0
Category: True Positive

Frame: 307 Total Penalty: 167.53007383516382
GT_area: 25080
ST_area: 18018
Overlap_area: 18018
IOU: 0.718421052631579
Centre Distance: 5.5
Category: True Positive

Frame: 308 Total Penalty: 167.85693543360438
GT_area: 25650
ST_area: 17266
Overlap_area: 17266
IOU: 0.6731384015594541
Centre Distance: 7.5
Category: True Positive

Frame: 309 Total Penalty: 168.13679863013425
GT_area: 23976
ST_area: 17266
Overlap_area: 17266
IOU: 0.7201368034701368
Centre Distance: 5.5
Category: True Positive

Frame: 310 Total Penalty: 168.423268586329
GT_area: 24198
ST_area: 17266
Overlap_area: 17266
IOU: 0.7135300438052732
Centre Distance: 5.0
Category: True Positive

Frame: 311 Total Penalty: 168.71939577752343
GT_area: 24530
ST_area: 17266
Overlap_area: 17266
IOU: 0.7038728088055443
Centre Distance: 5.5
Category: True Positive

Frame: 312 Total Penalty: 169.00029416769135
GT_area: 23108
ST_area: 16617
Overlap_area: 16617
IOU: 0.7191016098320928
Centre Distance: 4.5
Category: True Positive

Frame: 313 Total Penalty: 169.3295400802706
GT_area: 23976
ST_area: 16082

Overlap_area: 16082
IOU: 0.670754087420754
Centre Distance: 7.5
Category: True Positive

Frame: 314 Total Penalty: 169.61030931103983
GT_area: 22360
ST_area: 16082
Overlap_area: 16082
IOU: 0.7192307692307692
Centre Distance: 6.0
Category: True Positive

Frame: 315 Total Penalty: 169.9294695555256
GT_area: 22578
ST_area: 15372
Overlap_area: 15372
IOU: 0.6808397555142174
Centre Distance: 5.0
Category: True Positive

Frame: 316 Total Penalty: 170.22562340167946
GT_area: 21840
ST_area: 15372
Overlap_area: 15372
IOU: 0.7038461538461539
Centre Distance: 4.0
Category: True Positive

Frame: 317 Total Penalty: 170.56039923688803
GT_area: 23108
ST_area: 15372
Overlap_area: 15372
IOU: 0.6652241647914142
Centre Distance: 7.5
Category: True Positive

Frame: 318 Total Penalty: 170.87310602397557
GT_area: 22366
ST_area: 15372
Overlap_area: 15372
IOU: 0.6872932129124564
Centre Distance: 6.0
Category: True Positive

Frame: 319 Total Penalty: 171.17917319623993
GT_area: 22152
ST_area: 15372
Overlap_area: 15372
IOU: 0.6939328277356447
Centre Distance: 8.0
Category: True Positive

Frame: 320 Total Penalty: 171.48657313054616

GT_area: 21311
ST_area: 14760
Overlap_area: 14760
IOU: 0.6926000656937732
Centre Distance: 4.5
Category: True Positive

Frame: 321 Total Penalty: 171.7976261551914
GT_area: 21424
ST_area: 14760
Overlap_area: 14760
IOU: 0.6889469753547424
Centre Distance: 4.5
Category: True Positive

Frame: 322 Total Penalty: 172.058628695236
GT_area: 19291
ST_area: 14256
Overlap_area: 14256
IOU: 0.7389974599554197
Centre Distance: 4.0
Category: True Positive

Frame: 323 Total Penalty: 172.39518128813964
GT_area: 18025
ST_area: 13667
Overlap_area: 12640
IOU: 0.6634474070963678
Centre Distance: 5.0
Category: True Positive

Frame: 324 Total Penalty: 172.72573021415397
GT_area: 16366
ST_area: 13013
Overlap_area: 11781
IOU: 0.6694510739856802
Centre Distance: 3.5
Category: True Positive

Frame: 325 Total Penalty: 173.15647989649196
GT_area: 14157
ST_area: 13013
Overlap_area: 9856
IOU: 0.5692503176620076
Centre Distance: 3.0
Category: True Positive

Frame: 326 Total Penalty: 173.64552372119314
GT_area: 11656
ST_area: 12616
Overlap_area: 8208
IOU: 0.5109561752988048
Centre Distance: 2.0
Category: True Positive

Frame: 327 Total Penalty: 174.19581957918132
GT_area: 9434
ST_area: 12616
Overlap_area: 6840
IOU: 0.44970414201183434
Centre Distance: 0.5
Category: True Positive

Frame: 328 Total Penalty: 174.8231027662948
GT_area: 7482
ST_area: 11607
Overlap_area: 5183
IOU: 0.3727168128865238
Centre Distance: 1.5
Category: True Positive

Frame: 329 Total Penalty: 175.44728440719186
GT_area: 7138
ST_area: 12616
Overlap_area: 5396
IOU: 0.37581835910293915
Centre Distance: 2.0
Category: True Positive

Frame: 330 Total Penalty: 176.07991683743853
GT_area: 6622
ST_area: 13667
Overlap_area: 5451
IOU: 0.367367569753336
Centre Distance: 2.5
Category: True Positive

Frame: 331 Total Penalty: 176.82145006685613
GT_area: 5146
ST_area: 12616
Overlap_area: 3648
IOU: 0.2584667705824005
Centre Distance: 2.5
Category: True Positive

Frame: 332 Total Penalty: 177.62341879876118
GT_area: 3936
ST_area: 12616
Overlap_area: 2736
IOU: 0.19803126809496235
Centre Distance: 2.0
Category: True Positive

Frame: 333 Total Penalty: 178.43437832239124
GT_area: 3159
ST_area: 12616
Overlap_area: 2508
IOU: 0.18904047636994045

Centre Distance: 1.5
Category: True Positive

Frame: 334 Total Penalty: 179.25730846469395
GT_area: 2496
ST_area: 12062
Overlap_area: 2190
IOU: 0.1770698576972833
Centre Distance: 3.0
Category: True Positive

Frame: 335 Total Penalty: 180.1126346414074
GT_area: 1800
ST_area: 12062
Overlap_area: 1752
IOU: 0.14467382328654005
Centre Distance: 1.5
Category: True Positive

Frame: 336 Total Penalty: 181.01012503624105
GT_area: 1425
ST_area: 12062
Overlap_area: 1254
IOU: 0.10250960516635331
Centre Distance: 8.5
Category: True Positive

Frame: 337 Total Penalty: 181.8967971539843
GT_area: 1554
ST_area: 12062
Overlap_area: 1386
IOU: 0.11332788225674571
Centre Distance: 8.0
Category: True Positive

Frame: 338 Total Penalty: 182.81656344759853
GT_area: 1065
ST_area: 12062
Overlap_area: 975
IOU: 0.08023370638578012
Centre Distance: 7.5
Category: True Positive

Frame: 339 Total Penalty: 185.68031449890213
GT_area: 368
ST_area: 12062
Overlap_area: 540
IOU: 0.045416316232127836
Centre Distance: 30.0
Category: False Positive

Frame: 340 Total Penalty: 188.54406555020574
GT_area: 8
ST_area: 12062

Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 214.0
Category: False Positive

Frame: 341 Total Penalty: 191.40781660150935
GT_area: 6
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 224.0
Category: False Positive

Frame: 342 Total Penalty: 194.27156765281296
GT_area: 0
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 223.5
Category: False Positive

Frame: 343 Total Penalty: 197.13531870411657
GT_area: 3
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 243.5
Category: False Positive

Frame: 344 Total Penalty: 199.99906975542018
GT_area: 9
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 244.5
Category: False Positive

Frame: 345 Total Penalty: 202.8628208067238
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 235.0
Category: False Positive

Frame: 346 Total Penalty: 205.7265718580274
GT_area: 12
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 233.0
Category: False Positive

Frame: 347 Total Penalty: 208.590322909331

GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 266.0
Category: False Positive

Frame: 348 Total Penalty: 211.45407396063462
GT_area: 6
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 277.5
Category: False Positive

Frame: 349 Total Penalty: 214.31782501193823
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 270.0
Category: False Positive

Frame: 350 Total Penalty: 217.18157606324183
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 254.0
Category: False Positive

Frame: 351 Total Penalty: 220.04532711454544
GT_area: 6
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 249.5
Category: False Positive

Frame: 352 Total Penalty: 222.90907816584905
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 258.0
Category: False Positive

Frame: 353 Total Penalty: 225.77282921715266
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 238.0
Category: False Positive

Frame: 354 Total Penalty: 228.63658026845627
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 231.0
Category: False Positive

Frame: 355 Total Penalty: 231.50033131975988
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 236.0
Category: False Positive

Frame: 356 Total Penalty: 234.3640823710635
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 262.0
Category: False Positive

Frame: 357 Total Penalty: 237.2278334223671
GT_area: 12
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 252.0
Category: False Positive

Frame: 358 Total Penalty: 240.0915844736707
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 278.0
Category: False Positive

Frame: 359 Total Penalty: 242.95533552497432
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 246.0
Category: False Positive

Frame: 360 Total Penalty: 245.81908657627793
GT_area: 12
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836

Centre Distance: 240.0
Category: False Positive

Frame: 361 Total Penalty: 248.68283762758153
GT_area: 6
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 242.5
Category: False Positive

Frame: 362 Total Penalty: 251.54658867888514
GT_area: 9
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 226.5
Category: False Positive

Frame: 363 Total Penalty: 254.41033973018875
GT_area: 6
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 239.5
Category: False Positive

Frame: 364 Total Penalty: 257.27409078149236
GT_area: 0
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 258.0
Category: False Positive

Frame: 365 Total Penalty: 260.13784183279597
GT_area: 9
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 241.5
Category: False Positive

Frame: 366 Total Penalty: 263.0015928840996
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 238.0
Category: False Positive

Frame: 367 Total Penalty: 265.8653439354032
GT_area: 9
ST_area: 12062

Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 247.5
Category: False Positive

Frame: 368 Total Penalty: 268.7290949867068
GT_area: 4
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 254.0
Category: False Positive

Frame: 369 Total Penalty: 271.5928460380104
GT_area: 6
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 234.5
Category: False Positive

Frame: 370 Total Penalty: 274.456597089314
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 261.0
Category: False Positive

Frame: 371 Total Penalty: 277.3203481406176
GT_area: 8
ST_area: 12062
Overlap_area: 0
IOU: 0.045416316232127836
Centre Distance: 271.0
Category: False Positive

Frame: 372 Total Penalty: 280.3169363357729
GT_area: 5544
ST_area: 12062
Overlap_area: 20
IOU: 0.0011372682815876266
Centre Distance: 80.0
Category: False Positive

Frame: 373 Total Penalty: 280.744403704676
GT_area: 15862
ST_area: 11607
Overlap_area: 10001
IOU: 0.5725326310968628
Centre Distance: 3.0
Category: True Positive

Frame: 374 Total Penalty: 281.1496205862704

GT_area: 15600
ST_area: 11607
Overlap_area: 10147
IOU: 0.5947831184056273
Centre Distance: 2.5
Category: True Positive

Frame: 375 Total Penalty: 281.5726018338785
GT_area: 20904
ST_area: 12062
Overlap_area: 12062
IOU: 0.5770187523918867
Centre Distance: 5.0
Category: True Positive

Frame: 376 Total Penalty: 281.9996160949376
GT_area: 22018
ST_area: 12616
Overlap_area: 12616
IOU: 0.5729857389408666
Centre Distance: 6.5
Category: True Positive

Frame: 377 Total Penalty: 282.40345520067336
GT_area: 21828
ST_area: 13013
Overlap_area: 13013
IOU: 0.5961608942642478
Centre Distance: 5.0
Category: True Positive

Frame: 378 Total Penalty: 282.83024713121904
GT_area: 23843
ST_area: 13667
Overlap_area: 13667
IOU: 0.5732080694543472
Centre Distance: 6.0
Category: True Positive

Frame: 379 Total Penalty: 283.25663007422247
GT_area: 23826
ST_area: 13667
Overlap_area: 13667
IOU: 0.5736170569965584
Centre Distance: 5.5
Category: True Positive

Frame: 380 Total Penalty: 283.67857314405285
GT_area: 23643
ST_area: 13667
Overlap_area: 13667
IOU: 0.5780569301696062
Centre Distance: 3.0
Category: True Positive

Frame: 381 Total Penalty: 284.08826258504666
GT_area: 24150
ST_area: 14256
Overlap_area: 14256
IOU: 0.5903105590062112
Centre Distance: 6.0
Category: True Positive

Frame: 382 Total Penalty: 284.54449716768374
GT_area: 25134
ST_area: 13667
Overlap_area: 13667
IOU: 0.5437654173629347
Centre Distance: 5.5
Category: True Positive

Frame: 383 Total Penalty: 284.99650562434334
GT_area: 26015
ST_area: 14256
Overlap_area: 14256
IOU: 0.5479915433403806
Centre Distance: 6.0
Category: True Positive

Frame: 384 Total Penalty: 285.4485604188639
GT_area: 26937
ST_area: 14760
Overlap_area: 14760
IOU: 0.547945205479452
Centre Distance: 4.5
Category: True Positive

Frame: 385 Total Penalty: 285.9000246674145
GT_area: 26908
ST_area: 14760
Overlap_area: 14760
IOU: 0.548535751449383
Centre Distance: 3.0
Category: True Positive

Frame: 386 Total Penalty: 286.344469111859
GT_area: 26568
ST_area: 14760
Overlap_area: 14760
IOU: 0.5555555555555556
Centre Distance: 2.5
Category: True Positive

Frame: 387 Total Penalty: 286.808287769226
GT_area: 27528
ST_area: 14760
Overlap_area: 14760
IOU: 0.5361813426329556

Centre Distance: 4.0
Category: True Positive

```
-----  
Total Penalty: 286.808287769226  
True Positive: 288  
False Positive: 98  
True Negative: 0  
False Negative: 0  
Average Time: 0.058081275440868316  
>>>
```