

Python 3.6.8 |Anaconda custom (64-bit)| (default, Feb 21 2019, 18:30:04) [MSC  
v.1916 64 bit (AMD64)] on win32  
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>>>

RESTART: C:\ObjDetAPI\models-master\research\object\_detection\0  
Tracker\_Evaluator.py

True

Frame: 2      Total Penalty: 0.0834963372070725  
              GT\_area: 25038  
              ST\_area: 24931  
              Overlap\_area: 23896  
              IOU: 0.9165036627929275  
              Centre Distance: 4.0  
              Category: True Positive

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Frame: 3      Total Penalty: 0.16740555661966872  
              GT\_area: 23868  
              ST\_area: 24931  
              Overlap\_area: 23331  
              IOU: 0.9160907805874038  
              Centre Distance: 3.5  
              Category: True Positive

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Frame: 4      Total Penalty: 0.30073141862422625  
              GT\_area: 25038  
              ST\_area: 24931  
              Overlap\_area: 23200  
              IOU: 0.8666741379954425  
              Centre Distance: 7.0  
              Category: True Positive

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Frame: 5      Total Penalty: 0.3705179539280029  
              GT\_area: 24440  
              ST\_area: 24931  
              Overlap\_area: 23793  
              IOU: 0.9302134646962233  
              Centre Distance: 2.5  
              Category: True Positive

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Frame: 6      Total Penalty: 0.4848510430422589  
              GT\_area: 23970  
              ST\_area: 24931  
              Overlap\_area: 22968  
              IOU: 0.885666910885744  
              Centre Distance: 5.5  
              Category: True Positive

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Frame: 7      Total Penalty: 0.575420136194634  
              GT\_area: 24592  
              ST\_area: 24931  
              Overlap\_area: 23587  
              IOU: 0.909430906847625  
              Centre Distance: 3.5  
              Category: True Positive

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Frame: 8     Total Penalty: 0.6747144715974026  
             GT\_area: 24360  
             ST\_area: 24931  
             Overlap\_area: 23358  
             IOU: 0.9007056645972313  
             Centre Distance: 4.0  
             Category: True Positive

-----  
Frame: 9     Total Penalty: 0.7315799907359706  
             GT\_area: 24514  
             ST\_area: 24931  
             Overlap\_area: 23999  
             IOU: 0.943134480861432  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 10    Total Penalty: 0.8087243317531093  
             GT\_area: 23200  
             ST\_area: 24931  
             Overlap\_area: 23100  
             IOU: 0.9228556589828613  
             Centre Distance: 1.5  
             Category: True Positive

-----  
Frame: 11    Total Penalty: 0.8834806476472807  
             GT\_area: 23460  
             ST\_area: 24931  
             Overlap\_area: 23256  
             IOU: 0.9252436841058286  
             Centre Distance: 0.5  
             Category: True Positive

-----  
Frame: 12    Total Penalty: 0.9557601390435344  
             GT\_area: 23129  
             ST\_area: 24931  
             Overlap\_area: 23129  
             IOU: 0.9277205086037463  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 13    Total Penalty: 1.0196783237670881  
             GT\_area: 23533  
             ST\_area: 24931  
             Overlap\_area: 23432  
             IOU: 0.9360818152764462  
             Centre Distance: 3.0  
             Category: True Positive

-----  
Frame: 14    Total Penalty: 1.0850988845147516  
             GT\_area: 23300  
             ST\_area: 24931  
             Overlap\_area: 23300  
             IOU: 0.9345794392523364

Centre Distance: 1.5  
Category: True Positive

-----  
Frame: 15    Total Penalty: 1.1902290437542526  
             GT\_area: 22310  
             ST\_area: 24931  
             Overlap\_area: 22310  
             IOU: 0.894869840760499  
             Centre Distance: 0.0  
             Category: True Positive

-----  
Frame: 16    Total Penalty: 1.3525570691042186  
             GT\_area: 20884  
             ST\_area: 24931  
             Overlap\_area: 20884  
             IOU: 0.8376719746500341  
             Centre Distance: 0.5  
             Category: True Positive

-----  
Frame: 17    Total Penalty: 1.456323464355111  
             GT\_area: 22344  
             ST\_area: 24931  
             Overlap\_area: 22344  
             IOU: 0.8962336047491075  
             Centre Distance: 1.5  
             Category: True Positive

-----  
Frame: 18    Total Penalty: 1.5837150651733696  
             GT\_area: 21755  
             ST\_area: 24931  
             Overlap\_area: 21755  
             IOU: 0.8726083991817416  
             Centre Distance: 1.0  
             Category: True Positive

-----  
Frame: 19    Total Penalty: 1.7606433873425567  
             GT\_area: 20520  
             ST\_area: 24931  
             Overlap\_area: 20520  
             IOU: 0.823071677830813  
             Centre Distance: 1.5  
             Category: True Positive

-----  
Frame: 20    Total Penalty: 1.913866282533283  
             GT\_area: 21111  
             ST\_area: 24931  
             Overlap\_area: 21111  
             IOU: 0.8467771048092736  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 21    Total Penalty: 2.096249660656904  
             GT\_area: 20384  
             ST\_area: 24931

Overlap\_area: 20384  
IOU: 0.8176166218763788  
Centre Distance: 2.0  
Category: True Positive

-----  
Frame: 22 Total Penalty: 2.2696482407379275  
GT\_area: 20608  
ST\_area: 24931  
Overlap\_area: 20608  
IOU: 0.8266014199189764  
Centre Distance: 1.5  
Category: True Positive

-----  
Frame: 23 Total Penalty: 2.446737005729304  
GT\_area: 20516  
ST\_area: 24931  
Overlap\_area: 20516  
IOU: 0.8229112350086238  
Centre Distance: 0.5  
Category: True Positive

-----  
Frame: 24 Total Penalty: 2.6021659897251324  
GT\_area: 21056  
ST\_area: 24931  
Overlap\_area: 21056  
IOU: 0.8445710160041715  
Centre Distance: 3.5  
Category: True Positive

-----  
Frame: 25 Total Penalty: 2.736666109600462  
GT\_area: 21755  
ST\_area: 24931  
Overlap\_area: 21660  
IOU: 0.8654998801246704  
Centre Distance: 4.0  
Category: True Positive

-----  
Frame: 26 Total Penalty: 2.883110295553693  
GT\_area: 21280  
ST\_area: 24931  
Overlap\_area: 21280  
IOU: 0.8535558140467691  
Centre Distance: 3.0  
Category: True Positive

-----  
Frame: 27 Total Penalty: 3.0360102597270937  
GT\_area: 21470  
ST\_area: 24931  
Overlap\_area: 21280  
IOU: 0.8471000358265992  
Centre Distance: 3.0  
Category: True Positive

-----  
Frame: 28 Total Penalty: 3.1596321502743576

GT\_area: 22213  
ST\_area: 24931  
Overlap\_area: 22019  
IOU: 0.8763781094527363  
Centre Distance: 3.0  
Category: True Positive

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Frame: 29    Total Penalty: 3.314555025884017  
GT\_area: 21600  
ST\_area: 24931  
Overlap\_area: 21312  
IOU: 0.8450771243903407  
Centre Distance: 4.5  
Category: True Positive

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Frame: 30    Total Penalty: 3.4492390319105017  
GT\_area: 22116  
ST\_area: 24931  
Overlap\_area: 21825  
IOU: 0.8653159939735152  
Centre Distance: 2.0  
Category: True Positive

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Frame: 31    Total Penalty: 3.5823591203676357  
GT\_area: 22344  
ST\_area: 24931  
Overlap\_area: 21952  
IOU: 0.8668799115428661  
Centre Distance: 4.5  
Category: True Positive

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Frame: 32    Total Penalty: 3.7137024039497253  
GT\_area: 22019  
ST\_area: 24931  
Overlap\_area: 21825  
IOU: 0.8686567164179104  
Centre Distance: 4.0  
Category: True Positive

---

Frame: 33    Total Penalty: 3.8697676953733757  
GT\_area: 22176  
ST\_area: 24931  
Overlap\_area: 21560  
IOU: 0.8439347085763494  
Centre Distance: 5.0  
Category: True Positive

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Frame: 34    Total Penalty: 3.9591704987814405  
GT\_area: 23730  
ST\_area: 24931  
Overlap\_area: 23192  
IOU: 0.9105971965919353  
Centre Distance: 2.0  
Category: True Positive

-----  
Frame: 35    Total Penalty: 4.069940535842048  
             GT\_area: 25536  
             ST\_area: 24931  
             Overlap\_area: 23754  
             IOU: 0.8892299629393928  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 36    Total Penalty: 4.163391140522431  
             GT\_area: 23625  
             ST\_area: 24931  
             Overlap\_area: 23088  
             IOU: 0.9065493953196168  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 37    Total Penalty: 4.267398517477131  
             GT\_area: 24416  
             ST\_area: 24931  
             Overlap\_area: 23320  
             IOU: 0.8959926230452991  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 38    Total Penalty: 4.36393539871368  
             GT\_area: 23712  
             ST\_area: 24931  
             Overlap\_area: 23088  
             IOU: 0.9034631187634514  
             Centre Distance: 1.5  
             Category: True Positive

-----  
Frame: 39    Total Penalty: 4.431565025435822  
             GT\_area: 24300  
             ST\_area: 24931  
             Overlap\_area: 23754  
             IOU: 0.9323703732778584  
             Centre Distance: 0.5  
             Category: True Positive

-----  
Frame: 40    Total Penalty: 4.52040462384815  
             GT\_area: 24182  
             ST\_area: 24931  
             Overlap\_area: 23415  
             IOU: 0.9111604015876722  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 41    Total Penalty: 4.609527596981065  
             GT\_area: 23504  
             ST\_area: 24931  
             Overlap\_area: 23088  
             IOU: 0.9108770268670848

Centre Distance: 0.5  
Category: True Positive

-----  
Frame: 42    Total Penalty: 4.694547520443408  
             GT\_area: 23608  
             ST\_area: 24931  
             Overlap\_area: 23192  
             IOU: 0.9149800765376573  
             Centre Distance: 1.5  
             Category: True Positive

-----  
Frame: 43    Total Penalty: 4.807237170290916  
             GT\_area: 23956  
             ST\_area: 24931  
             Overlap\_area: 22984  
             IOU: 0.887310350152492  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 44    Total Penalty: 4.921799823566637  
             GT\_area: 23504  
             ST\_area: 24931  
             Overlap\_area: 22746  
             IOU: 0.8854373467242789  
             Centre Distance: 3.5  
             Category: True Positive

-----  
Frame: 45    Total Penalty: 5.030695290150217  
             GT\_area: 23625  
             ST\_area: 24931  
             Overlap\_area: 22880  
             IOU: 0.89110453341642  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 46    Total Penalty: 5.144561686911351  
             GT\_area: 23520  
             ST\_area: 24931  
             Overlap\_area: 22763  
             IOU: 0.8861336032388664  
             Centre Distance: 3.0  
             Category: True Positive

-----  
Frame: 47    Total Penalty: 5.238012291591734  
             GT\_area: 23625  
             ST\_area: 24931  
             Overlap\_area: 23088  
             IOU: 0.9065493953196168  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 48    Total Penalty: 5.339815550874376  
             GT\_area: 23175  
             ST\_area: 24931

Overlap\_area: 22763  
IOU: 0.8981967407173579  
Centre Distance: 2.0  
Category: True Positive

-----  
Frame: 49    Total Penalty: 5.463908928069097  
             GT\_area: 22400  
             ST\_area: 24931  
             Overlap\_area: 22100  
             IOU: 0.8759066228052792  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 50    Total Penalty: 5.555642111655796  
             GT\_area: 22644  
             ST\_area: 24931  
             Overlap\_area: 22644  
             IOU: 0.9082668164133008  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 51    Total Penalty: 5.695245755574607  
             GT\_area: 21631  
             ST\_area: 24931  
             Overlap\_area: 21534  
             IOU: 0.860396356081189  
             Centre Distance: 3.0  
             Category: True Positive

-----  
Frame: 52    Total Penalty: 5.850674739570436  
             GT\_area: 21056  
             ST\_area: 24931  
             Overlap\_area: 21056  
             IOU: 0.8445710160041715  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 53    Total Penalty: 6.017414942530606  
             GT\_area: 20774  
             ST\_area: 24931  
             Overlap\_area: 20774  
             IOU: 0.8332597970398299  
             Centre Distance: 3.5  
             Category: True Positive

-----  
Frame: 54    Total Penalty: 6.181164942530606  
             GT\_area: 22077  
             ST\_area: 24931  
             Overlap\_area: 21408  
             IOU: 0.83625  
             Centre Distance: 7.0  
             Category: True Positive

-----  
Frame: 55    Total Penalty: 6.304585583499681



GT\_area: 21854  
ST\_area: 24931  
Overlap\_area: 21854  
IOU: 0.8765793590309253  
Centre Distance: 3.5  
Category: True Positive

-----  
Frame: 56    Total Penalty: 6.462420184185233  
             GT\_area: 21825  
             ST\_area: 24931  
             Overlap\_area: 21375  
             IOU: 0.8421653993144478  
             Centre Distance: 7.0  
             Category: True Positive

-----  
Frame: 57    Total Penalty: 6.618821650079547  
             GT\_area: 21854  
             ST\_area: 24931  
             Overlap\_area: 21408  
             IOU: 0.8435985341056863  
             Centre Distance: 6.5  
             Category: True Positive

-----  
Frame: 58    Total Penalty: 6.794896971406265  
             GT\_area: 21756  
             ST\_area: 24931  
             Overlap\_area: 21090  
             IOU: 0.823924678673282  
             Centre Distance: 7.5  
             Category: True Positive

-----  
Frame: 59    Total Penalty: 6.954626069588372  
             GT\_area: 21534  
             ST\_area: 24931  
             Overlap\_area: 21216  
             IOU: 0.8402709018178938  
             Centre Distance: 6.0  
             Category: True Positive

-----  
Frame: 60    Total Penalty: 7.130144873754707  
             GT\_area: 20962  
             ST\_area: 24931  
             Overlap\_area: 20739  
             IOU: 0.8244811958336646  
             Centre Distance: 7.5  
             Category: True Positive

-----  
Frame: 61    Total Penalty: 7.261427213011054  
             GT\_area: 21658  
             ST\_area: 24931  
             Overlap\_area: 21658  
             IOU: 0.8687176607436525  
             Centre Distance: 4.5  
             Category: True Positive

-----  
Frame: 62    Total Penalty: 7.4413318209971795  
             GT\_area: 21243  
             ST\_area: 24931  
             Overlap\_area: 20805  
             IOU: 0.8200953920138752  
             Centre Distance: 7.0  
             Category: True Positive

-----  
Frame: 63    Total Penalty: 7.571691614025939  
             GT\_area: 21681  
             ST\_area: 24931  
             Overlap\_area: 21681  
             IOU: 0.8696402069712407  
             Centre Distance: 4.0  
             Category: True Positive

-----  
Frame: 64    Total Penalty: 7.710607008427974  
             GT\_area: 21879  
             ST\_area: 24931  
             Overlap\_area: 21658  
             IOU: 0.8610846055979644  
             Centre Distance: 5.0  
             Category: True Positive

-----  
Frame: 65    Total Penalty: 7.834644981627958  
             GT\_area: 23088  
             ST\_area: 24931  
             Overlap\_area: 22422  
             IOU: 0.8759620268000157  
             Centre Distance: 4.5  
             Category: True Positive

-----  
Frame: 66    Total Penalty: 7.9797961889421725  
             GT\_area: 22542  
             ST\_area: 24931  
             Overlap\_area: 21879  
             IOU: 0.8548487926857857  
             Centre Distance: 5.5  
             Category: True Positive

-----  
Frame: 67    Total Penalty: 8.079711956460523  
             GT\_area: 22440  
             ST\_area: 24931  
             Overlap\_area: 22440  
             IOU: 0.9000842324816494  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 68    Total Penalty: 8.218627350862558  
             GT\_area: 21879  
             ST\_area: 24931  
             Overlap\_area: 21658  
             IOU: 0.8610846055979644

Centre Distance: 5.0  
Category: True Positive

-----  
Frame: 69    Total Penalty: 8.384740437494578  
             GT\_area: 22000  
             ST\_area: 24931  
             Overlap\_area: 21340  
             IOU: 0.8338869133679809  
             Centre Distance: 6.5  
             Category: True Positive

-----  
Frame: 70    Total Penalty: 8.533506849826582  
             GT\_area: 22866  
             ST\_area: 24931  
             Overlap\_area: 21978  
             IOU: 0.8512335876679964  
             Centre Distance: 6.0  
             Category: True Positive

-----  
Frame: 71    Total Penalty: 8.642082367657457  
             GT\_area: 22644  
             ST\_area: 24931  
             Overlap\_area: 22422  
             IOU: 0.891424482169125  
             Centre Distance: 3.5  
             Category: True Positive

-----  
Frame: 72    Total Penalty: 8.779787802568583  
             GT\_area: 22321  
             ST\_area: 24931  
             Overlap\_area: 21879  
             IOU: 0.862294565088874  
             Centre Distance: 5.0  
             Category: True Positive

-----  
Frame: 73    Total Penalty: 8.898945142924081  
             GT\_area: 23638  
             ST\_area: 24931  
             Overlap\_area: 22746  
             IOU: 0.8808426596445029  
             Centre Distance: 4.5  
             Category: True Positive

-----  
Frame: 74    Total Penalty: 9.03165600747852  
             GT\_area: 22866  
             ST\_area: 24931  
             Overlap\_area: 22200  
             IOU: 0.8672891354455601  
             Centre Distance: 5.0  
             Category: True Positive

-----  
Frame: 75    Total Penalty: 9.138990884445672  
             GT\_area: 23296  
             ST\_area: 24931

Overlap\_area: 22746  
IOU: 0.892665123032848  
Centre Distance: 3.5  
Category: True Positive

-----  
Frame: 76 Total Penalty: 9.290126476387119  
GT\_area: 24075  
ST\_area: 24931  
Overlap\_area: 22500  
IOU: 0.8488644080585528  
Centre Distance: 7.0  
Category: True Positive

-----  
Frame: 77 Total Penalty: 9.413968523804296  
GT\_area: 22866  
ST\_area: 24931  
Overlap\_area: 22321  
IOU: 0.876157952582823  
Centre Distance: 4.0  
Category: True Positive

-----  
Frame: 78 Total Penalty: 9.567524578811724  
GT\_area: 23540  
ST\_area: 24931  
Overlap\_area: 22220  
IOU: 0.8464439449925717  
Centre Distance: 6.0  
Category: True Positive

-----  
Frame: 79 Total Penalty: 9.708835462756403  
GT\_area: 24525  
ST\_area: 24931  
Overlap\_area: 22848  
IOU: 0.8586891160553217  
Centre Distance: 6.0  
Category: True Positive

-----  
Frame: 80 Total Penalty: 9.803724535538844  
GT\_area: 23415  
ST\_area: 24931  
Overlap\_area: 22969  
IOU: 0.9051109272175593  
Centre Distance: 3.0  
Category: True Positive

-----  
Frame: 81 Total Penalty: 9.909440266444257  
GT\_area: 23754  
ST\_area: 24931  
Overlap\_area: 22984  
IOU: 0.8942842690945878  
Centre Distance: 3.0  
Category: True Positive

-----  
Frame: 82 Total Penalty: 9.99878667422642

GT\_area: 23976  
ST\_area: 24931  
Overlap\_area: 23310  
IOU: 0.910653592217838  
Centre Distance: 2.5  
Category: True Positive

-----  
Frame: 83    Total Penalty: 10.087203766405942  
             GT\_area: 24860  
             ST\_area: 24931  
             Overlap\_area: 23744  
             IOU: 0.9115829078204783  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 84    Total Penalty: 10.175016290299206  
             GT\_area: 25088  
             ST\_area: 24931  
             Overlap\_area: 23861  
             IOU: 0.912187476106736  
             Centre Distance: 1.5  
             Category: True Positive

-----  
Frame: 85    Total Penalty: 10.27445898658764  
             GT\_area: 25200  
             ST\_area: 24931  
             Overlap\_area: 23754  
             IOU: 0.900557303711567  
             Centre Distance: 0.5  
             Category: True Positive

-----  
Frame: 86    Total Penalty: 10.366160547303284  
             GT\_area: 25200  
             ST\_area: 24931  
             Overlap\_area: 23861  
             IOU: 0.9082984392843548  
             Centre Distance: 2.5  
             Category: True Positive

-----  
Frame: 87    Total Penalty: 10.453903321427768  
             GT\_area: 25086  
             ST\_area: 24931  
             Overlap\_area: 23861  
             IOU: 0.9122572258755162  
             Centre Distance: 1.0  
             Category: True Positive

-----  
Frame: 88    Total Penalty: 10.530343841873865  
             GT\_area: 24743  
             ST\_area: 24931  
             Overlap\_area: 23850  
             IOU: 0.9235594795539034  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 89    Total Penalty: 10.614135890803528  
             GT\_area: 25197  
             ST\_area: 24931  
             Overlap\_area: 23968  
             IOU: 0.9162079510703364  
             Centre Distance: 2.0  
             Category: True Positive

-----  
Frame: 90    Total Penalty: 10.706532572438356  
             GT\_area: 25197  
             ST\_area: 24931  
             Overlap\_area: 23850  
             IOU: 0.9076033183651724  
             Centre Distance: 3.0  
             Category: True Positive

-----  
Frame: 91    Total Penalty: 10.814796072494723  
             GT\_area: 25410  
             ST\_area: 24931  
             Overlap\_area: 23730  
             IOU: 0.8917364999436324  
             Centre Distance: 3.5  
             Category: True Positive

-----  
Frame: 92    Total Penalty: 10.900070662815942  
             GT\_area: 24961  
             ST\_area: 24931  
             Overlap\_area: 23835  
             IOU: 0.9147254096787811  
             Centre Distance: 3.0  
             Category: True Positive

-----  
Frame: 93    Total Penalty: 10.976224712878425  
             GT\_area: 25872  
             ST\_area: 24931  
             Overlap\_area: 24396  
             IOU: 0.9238459499375166  
             Centre Distance: 0.5  
             Category: True Positive

-----  
Frame: 94    Total Penalty: 11.08377861730733  
             GT\_area: 27028  
             ST\_area: 24931  
             Overlap\_area: 24503  
             IOU: 0.8924460955710956  
             Centre Distance: 1.5  
             Category: True Positive

-----  
Frame: 95    Total Penalty: 11.161312171090639  
             GT\_area: 24486  
             ST\_area: 24931  
             Overlap\_area: 23712  
             IOU: 0.9224664462166894

Centre Distance: 2.5  
Category: True Positive

-----  
Frame: 96 Total Penalty: 11.26771193072408  
GT\_area: 25488  
ST\_area: 24931  
Overlap\_area: 23793  
IOU: 0.893600240366559  
Centre Distance: 4.5  
Category: True Positive

-----  
Frame: 97 Total Penalty: 11.389172352234045  
GT\_area: 24360  
ST\_area: 24931  
Overlap\_area: 23052  
IOU: 0.878539578490034  
Centre Distance: 4.0  
Category: True Positive

-----  
Frame: 98 Total Penalty: 11.532424999171829  
GT\_area: 24698  
ST\_area: 24931  
Overlap\_area: 22900  
IOU: 0.856747353062217  
Centre Distance: 6.5  
Category: True Positive

-----  
Frame: 99 Total Penalty: 11.673082432088762  
GT\_area: 24336  
ST\_area: 24931  
Overlap\_area: 22770  
IOU: 0.859342567083066  
Centre Distance: 6.5  
Category: True Positive

-----  
Frame: 100 Total Penalty: 11.796784788684958  
GT\_area: 24592  
ST\_area: 24931  
Overlap\_area: 23129  
IOU: 0.8762976434038039  
Centre Distance: 5.5  
Category: True Positive

-----  
Frame: 101 Total Penalty: 11.90198205727373  
GT\_area: 25016  
ST\_area: 24931  
Overlap\_area: 23587  
IOU: 0.8948027314112291  
Centre Distance: 3.5  
Category: True Positive

-----  
Frame: 102 Total Penalty: 12.040111393525724  
GT\_area: 25252  
ST\_area: 24931

Overlap\_area: 23230  
IOU: 0.8618706637480058  
Centre Distance: 6.0  
Category: True Positive

-----  
Frame: 103 Total Penalty: 12.24437957517837  
GT\_area: 24378  
ST\_area: 24931  
Overlap\_area: 21850  
IOU: 0.7957318183473543  
Centre Distance: 9.5  
Category: True Positive

-----  
Frame: 104 Total Penalty: 12.405103224889958  
GT\_area: 24174  
ST\_area: 24931  
Overlap\_area: 22407  
IOU: 0.8392763502884111  
Centre Distance: 7.5  
Category: True Positive

-----  
Frame: 105 Total Penalty: 12.602624302932762  
GT\_area: 25095  
ST\_area: 24931  
Overlap\_area: 22272  
IOU: 0.8024789219571954  
Centre Distance: 10.0  
Category: True Positive

-----  
Frame: 106 Total Penalty: 12.820909058646748  
GT\_area: 26051  
ST\_area: 24931  
Overlap\_area: 22368  
IOU: 0.7817152442860138  
Centre Distance: 12.0  
Category: True Positive

-----  
Frame: 107 Total Penalty: 12.999892131820692  
GT\_area: 30366  
ST\_area: 24931  
Overlap\_area: 24931  
IOU: 0.8210169268260554  
Centre Distance: 8.5  
Category: True Positive

-----  
Frame: 108 Total Penalty: 13.300054943408385  
GT\_area: 35624  
ST\_area: 24931  
Overlap\_area: 24931  
IOU: 0.6998371884123064  
Centre Distance: 3.5  
Category: True Positive

-----  
Frame: 109 Total Penalty: 14.300054943408385



GT\_area: 42066  
ST\_area: 0  
Overlap\_area: 36465  
IOU: 0.6998371884123064  
Centre Distance: 306.5  
Category: False Negative

-----  
Frame: 110 Total Penalty: 15.300054943408385  
GT\_area: 45080  
ST\_area: 0  
Overlap\_area: 34937  
IOU: 0.6998371884123064  
Centre Distance: 309.0  
Category: False Negative

-----  
Frame: 111 Total Penalty: 16.300054943408384  
GT\_area: 44896  
ST\_area: 0  
Overlap\_area: 34937  
IOU: 0.6998371884123064  
Centre Distance: 309.0  
Category: False Negative

-----  
Frame: 112 Total Penalty: 17.300054943408384  
GT\_area: 46995  
ST\_area: 0  
Overlap\_area: 35098  
IOU: 0.6998371884123064  
Centre Distance: 315.5  
Category: False Negative

-----  
Frame: 113 Total Penalty: 18.300054943408384  
GT\_area: 47400  
ST\_area: 0  
Overlap\_area: 35697  
IOU: 0.6998371884123064  
Centre Distance: 319.0  
Category: False Negative

-----  
Frame: 114 Total Penalty: 19.300054943408384  
GT\_area: 45828  
ST\_area: 0  
Overlap\_area: 35905  
IOU: 0.6998371884123064  
Centre Distance: 315.5  
Category: False Negative

-----  
Frame: 115 Total Penalty: 20.300054943408384  
GT\_area: 45800  
ST\_area: 0  
Overlap\_area: 34815  
IOU: 0.6998371884123064  
Centre Distance: 311.0  
Category: False Negative

-----  
Frame: 116 Total Penalty: 21.300054943408384  
GT\_area: 44550  
ST\_area: 0  
Overlap\_area: 35237  
IOU: 0.6998371884123064  
Centre Distance: 310.0  
Category: False Negative

-----  
Frame: 117 Total Penalty: 22.300054943408384  
GT\_area: 44576  
ST\_area: 0  
Overlap\_area: 35237  
IOU: 0.6998371884123064  
Centre Distance: 310.5  
Category: False Negative

-----  
Frame: 118 Total Penalty: 23.300054943408384  
GT\_area: 43956  
ST\_area: 0  
Overlap\_area: 35145  
IOU: 0.6998371884123064  
Centre Distance: 312.0  
Category: False Negative

-----  
Frame: 119 Total Penalty: 24.300054943408384  
GT\_area: 42140  
ST\_area: 0  
Overlap\_area: 37840  
IOU: 0.6998371884123064  
Centre Distance: 318.0  
Category: False Negative

-----  
Frame: 120 Total Penalty: 25.300054943408384  
GT\_area: 37036  
ST\_area: 0  
Overlap\_area: 42222  
IOU: 0.6998371884123064  
Centre Distance: 321.0  
Category: False Negative

-----  
Frame: 121 Total Penalty: 26.300054943408384  
GT\_area: 32757  
ST\_area: 0  
Overlap\_area: 46400  
IOU: 0.6998371884123064  
Centre Distance: 321.5  
Category: False Negative

-----  
Frame: 122 Total Penalty: 27.300054943408384  
GT\_area: 30624  
ST\_area: 0  
Overlap\_area: 49585  
IOU: 0.6998371884123064

Centre Distance: 323.0  
Category: False Negative

-----  
Frame: 123 Total Penalty: 28.300054943408384  
GT\_area: 29575  
ST\_area: 0  
Overlap\_area: 51920  
IOU: 0.6998371884123064  
Centre Distance: 323.5  
Category: False Negative

-----  
Frame: 124 Total Penalty: 29.300054943408384  
GT\_area: 29559  
ST\_area: 0  
Overlap\_area: 52156  
IOU: 0.6998371884123064  
Centre Distance: 324.5  
Category: False Negative

-----  
Frame: 125 Total Penalty: 30.300054943408384  
GT\_area: 26568  
ST\_area: 0  
Overlap\_area: 54264  
IOU: 0.6998371884123064  
Centre Distance: 319.0  
Category: False Negative

-----  
Frame: 126 Total Penalty: 31.300054943408384  
GT\_area: 22200  
ST\_area: 0  
Overlap\_area: 58322  
IOU: 0.6998371884123064  
Centre Distance: 316.0  
Category: False Negative

-----  
Frame: 127 Total Penalty: 32.300054943408384  
GT\_area: 20448  
ST\_area: 0  
Overlap\_area: 60515  
IOU: 0.6998371884123064  
Centre Distance: 316.0  
Category: False Negative

-----  
Frame: 128 Total Penalty: 33.300054943408384  
GT\_area: 20300  
ST\_area: 0  
Overlap\_area: 61503  
IOU: 0.6998371884123064  
Centre Distance: 317.0  
Category: False Negative

-----  
Frame: 129 Total Penalty: 34.300054943408384  
GT\_area: 19872  
ST\_area: 0

Overlap\_area: 61504  
IOU: 0.6998371884123064  
Centre Distance: 317.0  
Category: False Negative

-----  
Frame: 130 Total Penalty: 35.300054943408384  
GT\_area: 19856  
ST\_area: 0  
Overlap\_area: 62000  
IOU: 0.6998371884123064  
Centre Distance: 318.0  
Category: False Negative

-----  
Frame: 131 Total Penalty: 36.300054943408384  
GT\_area: 19110  
ST\_area: 0  
Overlap\_area: 60024  
IOU: 0.6998371884123064  
Centre Distance: 311.0  
Category: False Negative

-----  
Frame: 132 Total Penalty: 37.300054943408384  
GT\_area: 19126  
ST\_area: 0  
Overlap\_area: 60268  
IOU: 0.6998371884123064  
Centre Distance: 312.5  
Category: False Negative

-----  
Frame: 133 Total Penalty: 38.300054943408384  
GT\_area: 19479  
ST\_area: 0  
Overlap\_area: 59286  
IOU: 0.6998371884123064  
Centre Distance: 310.5  
Category: False Negative

-----  
Frame: 134 Total Penalty: 39.300054943408384  
GT\_area: 21014  
ST\_area: 0  
Overlap\_area: 56133  
IOU: 0.6998371884123064  
Centre Distance: 309.5  
Category: False Negative

-----  
Frame: 135 Total Penalty: 40.300054943408384  
GT\_area: 27946  
ST\_area: 0  
Overlap\_area: 48952  
IOU: 0.6998371884123064  
Centre Distance: 310.5  
Category: False Negative

-----  
Frame: 136 Total Penalty: 41.300054943408384

GT\_area: 29322  
ST\_area: 0  
Overlap\_area: 48108  
IOU: 0.6998371884123064  
Centre Distance: 309.0  
Category: False Negative

---

Frame: 137 Total Penalty: 42.300054943408384  
GT\_area: 37740  
ST\_area: 0  
Overlap\_area: 41664  
IOU: 0.6998371884123064  
Centre Distance: 309.5  
Category: False Negative

---

Frame: 138 Total Penalty: 43.300054943408384  
GT\_area: 40128  
ST\_area: 0  
Overlap\_area: 37736  
IOU: 0.6998371884123064  
Centre Distance: 308.0  
Category: False Negative

---

Frame: 139 Total Penalty: 44.300054943408384  
GT\_area: 45114  
ST\_area: 0  
Overlap\_area: 33066  
IOU: 0.6998371884123064  
Centre Distance: 301.0  
Category: False Negative

---

Frame: 140 Total Penalty: 45.300054943408384  
GT\_area: 46144  
ST\_area: 0  
Overlap\_area: 31005  
IOU: 0.6998371884123064  
Centre Distance: 298.0  
Category: False Negative

---

Frame: 141 Total Penalty: 46.300054943408384  
GT\_area: 46864  
ST\_area: 0  
Overlap\_area: 29944  
IOU: 0.6998371884123064  
Centre Distance: 298.0  
Category: False Negative

---

Frame: 142 Total Penalty: 47.300054943408384  
GT\_area: 47328  
ST\_area: 0  
Overlap\_area: 29682  
IOU: 0.6998371884123064  
Centre Distance: 296.0  
Category: False Negative

-----  
Frame: 143 Total Penalty: 48.300054943408384  
GT\_area: 47502  
ST\_area: 0  
Overlap\_area: 28161  
IOU: 0.6998371884123064  
Centre Distance: 290.5  
Category: False Negative

-----  
Frame: 144 Total Penalty: 49.300054943408384  
GT\_area: 45978  
ST\_area: 0  
Overlap\_area: 27740  
IOU: 0.6998371884123064  
Centre Distance: 287.0  
Category: False Negative

-----  
Frame: 145 Total Penalty: 50.300054943408384  
GT\_area: 43384  
ST\_area: 0  
Overlap\_area: 27594  
IOU: 0.6998371884123064  
Centre Distance: 282.5  
Category: False Negative

-----  
Frame: 146 Total Penalty: 51.300054943408384  
GT\_area: 42320  
ST\_area: 0  
Overlap\_area: 26280  
IOU: 0.6998371884123064  
Centre Distance: 272.0  
Category: False Negative

-----  
Frame: 147 Total Penalty: 52.300054943408384  
GT\_area: 40656  
ST\_area: 0  
Overlap\_area: 25810  
IOU: 0.6998371884123064  
Centre Distance: 266.0  
Category: False Negative

-----  
Frame: 148 Total Penalty: 53.300054943408384  
GT\_area: 38868  
ST\_area: 0  
Overlap\_area: 25842  
IOU: 0.6998371884123064  
Centre Distance: 259.0  
Category: False Negative

-----  
Frame: 149 Total Penalty: 54.300054943408384  
GT\_area: 38610  
ST\_area: 0  
Overlap\_area: 25696  
IOU: 0.6998371884123064

Centre Distance: 258.5  
Category: False Negative

-----  
Frame: 150 Total Penalty: 55.300054943408384  
GT\_area: 34950  
ST\_area: 0  
Overlap\_area: 26344  
IOU: 0.6998371884123064  
Centre Distance: 253.0  
Category: False Negative

-----  
Frame: 151 Total Penalty: 56.300054943408384  
GT\_area: 32802  
ST\_area: 0  
Overlap\_area: 27331  
IOU: 0.6998371884123064  
Centre Distance: 252.0  
Category: False Negative

-----  
Frame: 152 Total Penalty: 57.300054943408384  
GT\_area: 31455  
ST\_area: 0  
Overlap\_area: 27664  
IOU: 0.6998371884123064  
Centre Distance: 249.5  
Category: False Negative

-----  
Frame: 153 Total Penalty: 58.300054943408384  
GT\_area: 31020  
ST\_area: 0  
Overlap\_area: 27664  
IOU: 0.6998371884123064  
Centre Distance: 248.0  
Category: False Negative

-----  
Frame: 154 Total Penalty: 59.300054943408384  
GT\_area: 30654  
ST\_area: 0  
Overlap\_area: 27720  
IOU: 0.6998371884123064  
Centre Distance: 245.5  
Category: False Negative

-----  
Frame: 155 Total Penalty: 60.300054943408384  
GT\_area: 29845  
ST\_area: 0  
Overlap\_area: 28336  
IOU: 0.6998371884123064  
Centre Distance: 247.5  
Category: False Negative

-----  
Frame: 156 Total Penalty: 61.300054943408384  
GT\_area: 29625  
ST\_area: 0

Overlap\_area: 28080  
IOU: 0.6998371884123064  
Centre Distance: 242.5  
Category: False Negative

-----  
Frame: 157 Total Penalty: 62.300054943408384  
GT\_area: 30353  
ST\_area: 0  
Overlap\_area: 27144  
IOU: 0.6998371884123064  
Centre Distance: 237.5  
Category: False Negative

-----  
Frame: 158 Total Penalty: 63.300054943408384  
GT\_area: 30464  
ST\_area: 0  
Overlap\_area: 27004  
IOU: 0.6998371884123064  
Centre Distance: 236.0  
Category: False Negative

-----  
Frame: 159 Total Penalty: 64.30005494340838  
GT\_area: 30099  
ST\_area: 0  
Overlap\_area: 26712  
IOU: 0.6998371884123064  
Centre Distance: 231.5  
Category: False Negative

-----  
Frame: 160 Total Penalty: 65.30005494340838  
GT\_area: 29274  
ST\_area: 0  
Overlap\_area: 26544  
IOU: 0.6998371884123064  
Centre Distance: 229.5  
Category: False Negative

-----  
Frame: 161 Total Penalty: 66.30005494340838  
GT\_area: 29512  
ST\_area: 0  
Overlap\_area: 26386  
IOU: 0.6998371884123064  
Centre Distance: 229.0  
Category: False Negative

-----  
Frame: 162 Total Penalty: 67.30005494340838  
GT\_area: 28920  
ST\_area: 0  
Overlap\_area: 27840  
IOU: 0.6998371884123064  
Centre Distance: 234.0  
Category: False Negative

-----  
Frame: 163 Total Penalty: 68.30005494340838



GT\_area: 31964  
ST\_area: 0  
Overlap\_area: 28175  
IOU: 0.6998371884123064  
Centre Distance: 240.5  
Category: False Negative

---

Frame: 164 Total Penalty: 69.30005494340838  
GT\_area: 31944  
ST\_area: 0  
Overlap\_area: 28688  
IOU: 0.6998371884123064  
Centre Distance: 242.0  
Category: False Negative

---

Frame: 165 Total Penalty: 70.30005494340838  
GT\_area: 31070  
ST\_area: 0  
Overlap\_area: 29014  
IOU: 0.6998371884123064  
Centre Distance: 243.0  
Category: False Negative

---

Frame: 166 Total Penalty: 71.30005494340838  
GT\_area: 32319  
ST\_area: 0  
Overlap\_area: 29014  
IOU: 0.6998371884123064  
Centre Distance: 244.5  
Category: False Negative

---

Frame: 167 Total Penalty: 72.30005494340838  
GT\_area: 32912  
ST\_area: 0  
Overlap\_area: 29040  
IOU: 0.6998371884123064  
Centre Distance: 244.0  
Category: False Negative

---

Frame: 168 Total Penalty: 73.30005494340838  
GT\_area: 31416  
ST\_area: 0  
Overlap\_area: 30030  
IOU: 0.6998371884123064  
Centre Distance: 248.0  
Category: False Negative

---

Frame: 169 Total Penalty: 74.30005494340838  
GT\_area: 31070  
ST\_area: 0  
Overlap\_area: 31706  
IOU: 0.6998371884123064  
Centre Distance: 256.0  
Category: False Negative

-----  
Frame: 170 Total Penalty: 75.30005494340838  
GT\_area: 31330  
ST\_area: 0  
Overlap\_area: 31208  
IOU: 0.6998371884123064  
Centre Distance: 253.0  
Category: False Negative

-----  
Frame: 171 Total Penalty: 76.30005494340838  
GT\_area: 32400  
ST\_area: 0  
Overlap\_area: 29726  
IOU: 0.6998371884123064  
Centre Distance: 245.5  
Category: False Negative

-----  
Frame: 172 Total Penalty: 77.30005494340838  
GT\_area: 32026  
ST\_area: 0  
Overlap\_area: 27722  
IOU: 0.6998371884123064  
Centre Distance: 234.0  
Category: False Negative

-----  
Frame: 173 Total Penalty: 78.30005494340838  
GT\_area: 33499  
ST\_area: 0  
Overlap\_area: 25217  
IOU: 0.6998371884123064  
Centre Distance: 220.5  
Category: False Negative

-----  
Frame: 174 Total Penalty: 79.30005494340838  
GT\_area: 32568  
ST\_area: 0  
Overlap\_area: 25080  
IOU: 0.6998371884123064  
Centre Distance: 221.0  
Category: False Negative

-----  
Frame: 175 Total Penalty: 80.30005494340838  
GT\_area: 31088  
ST\_area: 0  
Overlap\_area: 23688  
IOU: 0.6998371884123064  
Centre Distance: 208.0  
Category: False Negative

-----  
Frame: 176 Total Penalty: 81.30005494340838  
GT\_area: 32880  
ST\_area: 0  
Overlap\_area: 20584  
IOU: 0.6998371884123064

Centre Distance: 192.5  
Category: False Negative

-----  
Frame: 177 Total Penalty: 82.30005494340838  
GT\_area: 32232  
ST\_area: 0  
Overlap\_area: 18252  
IOU: 0.6998371884123064  
Centre Distance: 176.0  
Category: False Negative

-----  
Frame: 178 Total Penalty: 83.30005494340838  
GT\_area: 31725  
ST\_area: 0  
Overlap\_area: 15624  
IOU: 0.6998371884123064  
Centre Distance: 160.5  
Category: False Negative

-----  
Frame: 179 Total Penalty: 84.30005494340838  
GT\_area: 32480  
ST\_area: 0  
Overlap\_area: 12483  
IOU: 0.6998371884123064  
Centre Distance: 143.0  
Category: False Negative

-----  
Frame: 180 Total Penalty: 85.30005494340838  
GT\_area: 31740  
ST\_area: 0  
Overlap\_area: 12556  
IOU: 0.6998371884123064  
Centre Distance: 142.0  
Category: False Negative

-----  
Frame: 181 Total Penalty: 86.30005494340838  
GT\_area: 32665  
ST\_area: 0  
Overlap\_area: 9860  
IOU: 0.6998371884123064  
Centre Distance: 127.5  
Category: False Negative

-----  
Frame: 182 Total Penalty: 87.30005494340838  
GT\_area: 31373  
ST\_area: 0  
Overlap\_area: 8750  
IOU: 0.6998371884123064  
Centre Distance: 118.5  
Category: False Negative

-----  
Frame: 183 Total Penalty: 88.30005494340838  
GT\_area: 30324  
ST\_area: 0

Overlap\_area: 7611  
IOU: 0.6998371884123064  
Centre Distance: 109.5  
Category: False Negative

-----  
Frame: 184 Total Penalty: 89.30005494340838  
GT\_area: 30228  
ST\_area: 0  
Overlap\_area: 6549  
IOU: 0.6998371884123064  
Centre Distance: 103.0  
Category: False Negative

-----  
Frame: 185 Total Penalty: 90.30005494340838  
GT\_area: 29900  
ST\_area: 0  
Overlap\_area: 5664  
IOU: 0.6998371884123064  
Centre Distance: 97.0  
Category: False Negative

-----  
Frame: 186 Total Penalty: 91.30005494340838  
GT\_area: 30030  
ST\_area: 0  
Overlap\_area: 5632  
IOU: 0.6998371884123064  
Centre Distance: 97.0  
Category: False Negative

-----  
Frame: 187 Total Penalty: 92.30005494340838  
GT\_area: 29106  
ST\_area: 0  
Overlap\_area: 4602  
IOU: 0.6998371884123064  
Centre Distance: 89.0  
Category: False Negative

-----  
Frame: 188 Total Penalty: 93.30005494340838  
GT\_area: 29337  
ST\_area: 0  
Overlap\_area: 3222  
IOU: 0.6998371884123064  
Centre Distance: 81.5  
Category: False Negative

-----  
Frame: 189 Total Penalty: 94.30005494340838  
GT\_area: 28044  
ST\_area: 0  
Overlap\_area: 2715  
IOU: 0.6998371884123064  
Centre Distance: 76.5  
Category: False Negative

-----  
Frame: 190 Total Penalty: 95.30005494340838

GT\_area: 27830  
ST\_area: 0  
Overlap\_area: 2172  
IOU: 0.6998371884123064  
Centre Distance: 72.5  
Category: False Negative

---

Frame: 191 Total Penalty: 96.30005494340838  
GT\_area: 27830  
ST\_area: 0  
Overlap\_area: 1647  
IOU: 0.6998371884123064  
Centre Distance: 69.5  
Category: False Negative

---

Frame: 192 Total Penalty: 97.30005494340838  
GT\_area: 26216  
ST\_area: 0  
Overlap\_area: 2013  
IOU: 0.6998371884123064  
Centre Distance: 69.0  
Category: False Negative

---

Frame: 193 Total Penalty: 98.30005494340838  
GT\_area: 28044  
ST\_area: 0  
Overlap\_area: 1086  
IOU: 0.6998371884123064  
Centre Distance: 67.5  
Category: False Negative

---

Frame: 194 Total Penalty: 99.30005494340838  
GT\_area: 26680  
ST\_area: 0  
Overlap\_area: 2013  
IOU: 0.6998371884123064  
Centre Distance: 69.0  
Category: False Negative

---

Frame: 195 Total Penalty: 100.30005494340838  
GT\_area: 27480  
ST\_area: 0  
Overlap\_area: 1448  
IOU: 0.6998371884123064  
Centre Distance: 68.0  
Category: False Negative

---

Frame: 196 Total Penalty: 101.30005494340838  
GT\_area: 27588  
ST\_area: 0  
Overlap\_area: 915  
IOU: 0.6998371884123064  
Centre Distance: 65.5  
Category: False Negative

-----  
Frame: 197 Total Penalty: 102.30005494340838  
GT\_area: 27140  
ST\_area: 0  
Overlap\_area: 2013  
IOU: 0.6998371884123064  
Centre Distance: 70.0  
Category: False Negative

-----  
Frame: 198 Total Penalty: 103.30005494340838  
GT\_area: 26096  
ST\_area: 0  
Overlap\_area: 5068  
IOU: 0.6998371884123064  
Centre Distance: 84.0  
Category: False Negative

-----  
Frame: 199 Total Penalty: 104.30005494340838  
GT\_area: 26565  
ST\_area: 0  
Overlap\_area: 4550  
IOU: 0.6998371884123064  
Centre Distance: 82.5  
Category: False Negative

-----  
Frame: 200 Total Penalty: 105.30005494340838  
GT\_area: 25942  
ST\_area: 0  
Overlap\_area: 12567  
IOU: 0.6998371884123064  
Centre Distance: 125.5  
Category: False Negative

-----  
Frame: 201 Total Penalty: 106.30005494340838  
GT\_area: 25680  
ST\_area: 0  
Overlap\_area: 24112  
IOU: 0.6998371884123064  
Centre Distance: 190.5  
Category: False Negative

-----  
Frame: 202 Total Penalty: 106.54753819370902  
GT\_area: 26076  
ST\_area: 24931  
Overlap\_area: 21902  
IOU: 0.7525167496993643  
Centre Distance: 12.5  
Category: True Positive

-----  
Frame: 203 Total Penalty: 107.54753819370902  
GT\_area: 28548  
ST\_area: 0  
Overlap\_area: 52448  
IOU: 0.7525167496993643

Centre Distance: 356.5  
Category: False Negative

-----  
Frame: 204 Total Penalty: 108.54753819370902  
GT\_area: 26244  
ST\_area: 0  
Overlap\_area: 67151  
IOU: 0.7525167496993643  
Centre Distance: 425.0  
Category: False Negative

-----  
Frame: 205 Total Penalty: 109.54753819370902  
GT\_area: 26487  
ST\_area: 0  
Overlap\_area: 67151  
IOU: 0.7525167496993643  
Centre Distance: 425.5  
Category: False Negative

-----  
Frame: 206 Total Penalty: 110.54753819370902  
GT\_area: 27440  
ST\_area: 0  
Overlap\_area: 80514  
IOU: 0.7525167496993643  
Centre Distance: 482.0  
Category: False Negative

-----  
Frame: 207 Total Penalty: 111.54753819370902  
GT\_area: 28431  
ST\_area: 0  
Overlap\_area: 90160  
IOU: 0.7525167496993643  
Centre Distance: 518.5  
Category: False Negative

-----  
Frame: 208 Total Penalty: 112.54753819370902  
GT\_area: 29040  
ST\_area: 0  
Overlap\_area: 97200  
IOU: 0.7525167496993643  
Centre Distance: 546.0  
Category: False Negative

-----  
Frame: 209 Total Penalty: 113.54753819370902  
GT\_area: 28920  
ST\_area: 0  
Overlap\_area: 102312  
IOU: 0.7525167496993643  
Centre Distance: 564.0  
Category: False Negative

-----  
Frame: 210 Total Penalty: 114.54753819370902  
GT\_area: 29750  
ST\_area: 0

Overlap\_area: 104030  
IOU: 0.7525167496993643  
Centre Distance: 567.5  
Category: False Negative

-----  
Frame: 211 Total Penalty: 115.54753819370902  
GT\_area: 29036  
ST\_area: 0  
Overlap\_area: 104442  
IOU: 0.7525167496993643  
Centre Distance: 568.0  
Category: False Negative

-----  
Frame: 212 Total Penalty: 116.54753819370902  
GT\_area: 29274  
ST\_area: 0  
Overlap\_area: 103428  
IOU: 0.7525167496993643  
Centre Distance: 568.5  
Category: False Negative

-----  
Frame: 213 Total Penalty: 117.54753819370902  
GT\_area: 29161  
ST\_area: 0  
Overlap\_area: 102515  
IOU: 0.7525167496993643  
Centre Distance: 565.5  
Category: False Negative

-----  
Frame: 214 Total Penalty: 118.54753819370902  
GT\_area: 29988  
ST\_area: 0  
Overlap\_area: 100776  
IOU: 0.7525167496993643  
Centre Distance: 557.0  
Category: False Negative

-----  
Frame: 215 Total Penalty: 119.54753819370902  
GT\_area: 30976  
ST\_area: 0  
Overlap\_area: 97920  
IOU: 0.7525167496993643  
Centre Distance: 544.0  
Category: False Negative

-----  
Frame: 216 Total Penalty: 120.54753819370902  
GT\_area: 34160  
ST\_area: 0  
Overlap\_area: 86565  
IOU: 0.7525167496993643  
Centre Distance: 505.0  
Category: False Negative

-----  
Frame: 217 Total Penalty: 121.54753819370902



GT\_area: 35321  
ST\_area: 0  
Overlap\_area: 69741  
IOU: 0.7525167496993643  
Centre Distance: 440.5  
Category: False Negative

---

Frame: 218 Total Penalty: 122.54753819370902  
GT\_area: 32943  
ST\_area: 0  
Overlap\_area: 69715  
IOU: 0.7525167496993643  
Centre Distance: 434.5  
Category: False Negative

---

Frame: 219 Total Penalty: 123.54753819370902  
GT\_area: 35478  
ST\_area: 0  
Overlap\_area: 47259  
IOU: 0.7525167496993643  
Centre Distance: 340.0  
Category: False Negative

---

Frame: 220 Total Penalty: 123.83043388079918  
GT\_area: 34510  
ST\_area: 24931  
Overlap\_area: 24824  
IOU: 0.717104312909842  
Centre Distance: 18.0  
Category: True Positive

---

Frame: 221 Total Penalty: 124.83043388079918  
GT\_area: 31144  
ST\_area: 0  
Overlap\_area: 17490  
IOU: 0.717104312909842  
Centre Distance: 174.0  
Category: False Negative

---

Frame: 222 Total Penalty: 125.83043388079918  
GT\_area: 28767  
ST\_area: 0  
Overlap\_area: 7802  
IOU: 0.717104312909842  
Centre Distance: 111.5  
Category: False Negative

---

Frame: 223 Total Penalty: 126.83043388079918  
GT\_area: 28288  
ST\_area: 0  
Overlap\_area: 1848  
IOU: 0.717104312909842  
Centre Distance: 75.0  
Category: False Negative

-----  
Frame: 224 Total Penalty: 127.83043388079918  
GT\_area: 27720  
ST\_area: 0  
Overlap\_area: 2197  
IOU: 0.717104312909842  
Centre Distance: 76.0  
Category: False Negative

-----  
Frame: 225 Total Penalty: 128.83043388079918  
GT\_area: 25272  
ST\_area: 0  
Overlap\_area: 173  
IOU: 0.717104312909842  
Centre Distance: 59.5  
Category: False Negative

-----  
Frame: 226 Total Penalty: 129.83043388079918  
GT\_area: 23653  
ST\_area: 0  
Overlap\_area: 176  
IOU: 0.717104312909842  
Centre Distance: 55.5  
Category: False Negative

-----  
Frame: 227 Total Penalty: 130.83043388079918  
GT\_area: 23760  
ST\_area: 0  
Overlap\_area: 178  
IOU: 0.717104312909842  
Centre Distance: 56.0  
Category: False Negative

-----  
Frame: 228 Total Penalty: 131.83043388079918  
GT\_area: 24198  
ST\_area: 0  
Overlap\_area: 177  
IOU: 0.717104312909842  
Centre Distance: 56.5  
Category: False Negative

-----  
Frame: 229 Total Penalty: 132.83043388079918  
GT\_area: 24966  
ST\_area: 0  
Overlap\_area: 179  
IOU: 0.717104312909842  
Centre Distance: 58.0  
Category: False Negative

-----  
Frame: 230 Total Penalty: 133.83043388079918  
GT\_area: 24725  
ST\_area: 0  
Overlap\_area: 179  
IOU: 0.717104312909842

Centre Distance: 58.5  
Category: False Negative

-----  
Frame: 231 Total Penalty: 134.83043388079918  
GT\_area: 24738  
ST\_area: 0  
Overlap\_area: 181  
IOU: 0.717104312909842  
Centre Distance: 58.0  
Category: False Negative

-----  
Frame: 232 Total Penalty: 135.83043388079918  
GT\_area: 25185  
ST\_area: 0  
Overlap\_area: 179  
IOU: 0.717104312909842  
Centre Distance: 58.5  
Category: False Negative

-----  
Frame: 233 Total Penalty: 136.83043388079918  
GT\_area: 25752  
ST\_area: 0  
Overlap\_area: 181  
IOU: 0.717104312909842  
Centre Distance: 59.0  
Category: False Negative

-----  
Frame: 234 Total Penalty: 137.83043388079918  
GT\_area: 26180  
ST\_area: 0  
Overlap\_area: 181  
IOU: 0.717104312909842  
Centre Distance: 60.5  
Category: False Negative

-----  
Frame: 235 Total Penalty: 138.83043388079918  
GT\_area: 27000  
ST\_area: 0  
Overlap\_area: 177  
IOU: 0.717104312909842  
Centre Distance: 61.0  
Category: False Negative

-----  
Frame: 236 Total Penalty: 139.83043388079918  
GT\_area: 27206  
ST\_area: 0  
Overlap\_area: 181  
IOU: 0.717104312909842  
Centre Distance: 62.0  
Category: False Negative

-----  
Frame: 237 Total Penalty: 140.83043388079918  
GT\_area: 26520  
ST\_area: 0

Overlap\_area: 181  
IOU: 0.717104312909842  
Centre Distance: 61.0  
Category: False Negative

-----  
Frame: 238 Total Penalty: 141.83043388079918  
GT\_area: 26314  
ST\_area: 0  
Overlap\_area: 183  
IOU: 0.717104312909842  
Centre Distance: 60.0  
Category: False Negative

-----  
Frame: 239 Total Penalty: 142.83043388079918  
GT\_area: 25086  
ST\_area: 0  
Overlap\_area: 182  
IOU: 0.717104312909842  
Centre Distance: 57.5  
Category: False Negative

-----  
Frame: 240 Total Penalty: 143.83043388079918  
GT\_area: 23647  
ST\_area: 0  
Overlap\_area: 185  
IOU: 0.717104312909842  
Centre Distance: 54.5  
Category: False Negative

-----  
Frame: 241 Total Penalty: 144.83043388079918  
GT\_area: 20855  
ST\_area: 0  
Overlap\_area: 185  
IOU: 0.717104312909842  
Centre Distance: 49.5  
Category: False Negative

-----  
Frame: 242 Total Penalty: 145.83043388079918  
GT\_area: 18576  
ST\_area: 0  
Overlap\_area: 188  
IOU: 0.717104312909842  
Centre Distance: 44.0  
Category: False Negative

-----  
Frame: 243 Total Penalty: 146.83043388079918  
GT\_area: 19135  
ST\_area: 0  
Overlap\_area: 187  
IOU: 0.717104312909842  
Centre Distance: 45.5  
Category: False Negative

-----  
Frame: 244 Total Penalty: 147.83043388079918

GT\_area: 17200  
ST\_area: 0  
Overlap\_area: 190  
IOU: 0.717104312909842  
Centre Distance: 41.0  
Category: False Negative

---

Frame: 245 Total Penalty: 148.83043388079918  
GT\_area: 16125  
ST\_area: 0  
Overlap\_area: 192  
IOU: 0.717104312909842  
Centre Distance: 38.5  
Category: False Negative

---

Frame: 246 Total Penalty: 149.83043388079918  
GT\_area: 14688  
ST\_area: 0  
Overlap\_area: 193  
IOU: 0.717104312909842  
Centre Distance: 35.0  
Category: False Negative

---

Frame: 247 Total Penalty: 150.83043388079918  
GT\_area: 13082  
ST\_area: 0  
Overlap\_area: 195  
IOU: 0.717104312909842  
Centre Distance: 32.0  
Category: False Negative

---

Frame: 248 Total Penalty: 151.83043388079918  
GT\_area: 12660  
ST\_area: 0  
Overlap\_area: 196  
IOU: 0.717104312909842  
Centre Distance: 31.0  
Category: False Negative

---

Frame: 249 Total Penalty: 152.83043388079918  
GT\_area: 12369  
ST\_area: 0  
Overlap\_area: 194  
IOU: 0.717104312909842  
Centre Distance: 29.5  
Category: False Negative

---

Frame: 250 Total Penalty: 153.83043388079918  
GT\_area: 11077  
ST\_area: 0  
Overlap\_area: 197  
IOU: 0.717104312909842  
Centre Distance: 27.5  
Category: False Negative

-----  
Frame: 251 Total Penalty: 154.83043388079918  
GT\_area: 10850  
ST\_area: 0  
Overlap\_area: 196  
IOU: 0.717104312909842  
Centre Distance: 26.0  
Category: False Negative

-----  
Frame: 252 Total Penalty: 155.83043388079918  
GT\_area: 10128  
ST\_area: 0  
Overlap\_area: 198  
IOU: 0.717104312909842  
Centre Distance: 25.0  
Category: False Negative

-----  
Frame: 253 Total Penalty: 156.83043388079918  
GT\_area: 9030  
ST\_area: 0  
Overlap\_area: 199  
IOU: 0.717104312909842  
Centre Distance: 22.5  
Category: False Negative

-----  
Frame: 254 Total Penalty: 157.83043388079918  
GT\_area: 7752  
ST\_area: 0  
Overlap\_area: 201  
IOU: 0.717104312909842  
Centre Distance: 20.0  
Category: False Negative

-----  
Frame: 255 Total Penalty: 158.83043388079918  
GT\_area: 7904  
ST\_area: 0  
Overlap\_area: 201  
IOU: 0.717104312909842  
Centre Distance: 20.0  
Category: False Negative

-----  
Frame: 256 Total Penalty: 159.83043388079918  
GT\_area: 6501  
ST\_area: 0  
Overlap\_area: 205  
IOU: 0.717104312909842  
Centre Distance: 17.5  
Category: False Negative

-----  
Frame: 257 Total Penalty: 160.83043388079918  
GT\_area: 5070  
ST\_area: 0  
Overlap\_area: 206  
IOU: 0.717104312909842

Centre Distance: 14.0  
Category: False Negative

-----  
Frame: 258 Total Penalty: 161.83043388079918  
GT\_area: 4324  
ST\_area: 0  
Overlap\_area: 210  
IOU: 0.717104312909842  
Centre Distance: 12.5  
Category: False Negative

-----  
Frame: 259 Total Penalty: 162.83043388079918  
GT\_area: 2499  
ST\_area: 0  
Overlap\_area: 210  
IOU: 0.717104312909842  
Centre Distance: 9.5  
Category: False Negative

-----  
Frame: 260 Total Penalty: 163.83043388079918  
GT\_area: 780  
ST\_area: 0  
Overlap\_area: 217  
IOU: 0.717104312909842  
Centre Distance: 6.0  
Category: False Negative

-----  
Frame: 261 Total Penalty: 164.83043388079918  
GT\_area: 870  
ST\_area: 0  
Overlap\_area: 217  
IOU: 0.717104312909842  
Centre Distance: 6.0  
Category: False Negative

-----  
Frame: 262 Total Penalty: 165.83043388079918  
GT\_area: 296  
ST\_area: 0  
Overlap\_area: 220  
IOU: 0.717104312909842  
Centre Distance: 5.0  
Category: False Negative

-----  
Frame: 263 Total Penalty: 165.83043388079918  
GT\_area: 12  
ST\_area: 0  
Overlap\_area: 54516  
IOU: 0.717104312909842  
Centre Distance: 355.5  
Category: True Negative

-----  
Frame: 264 Total Penalty: 165.83043388079918  
GT\_area: 9  
ST\_area: 0

Overlap\_area: 57078  
IOU: 0.717104312909842  
Centre Distance: 379.5  
Category: True Negative

-----  
Frame: 265 Total Penalty: 165.83043388079918  
GT\_area: 6  
ST\_area: 0  
Overlap\_area: 56392  
IOU: 0.717104312909842  
Centre Distance: 372.5  
Category: True Negative

-----  
Frame: 266 Total Penalty: 165.83043388079918  
GT\_area: 20  
ST\_area: 0  
Overlap\_area: 57442  
IOU: 0.717104312909842  
Centre Distance: 375.0  
Category: True Negative

-----  
Frame: 267 Total Penalty: 165.83043388079918  
GT\_area: 12  
ST\_area: 0  
Overlap\_area: 60053  
IOU: 0.717104312909842  
Centre Distance: 374.0  
Category: True Negative

-----  
Frame: 268 Total Penalty: 165.83043388079918  
GT\_area: 2  
ST\_area: 0  
Overlap\_area: 58188  
IOU: 0.717104312909842  
Centre Distance: 373.5  
Category: True Negative

-----  
Frame: 269 Total Penalty: 165.83043388079918  
GT\_area: 2  
ST\_area: 0  
Overlap\_area: 58989  
IOU: 0.717104312909842  
Centre Distance: 372.0  
Category: True Negative

-----  
Frame: 270 Total Penalty: 165.83043388079918  
GT\_area: 16  
ST\_area: 0  
Overlap\_area: 62040  
IOU: 0.717104312909842  
Centre Distance: 378.0  
Category: True Negative

-----  
Frame: 271 Total Penalty: 165.83043388079918



GT\_area: 20  
ST\_area: 0  
Overlap\_area: 59892  
IOU: 0.717104312909842  
Centre Distance: 374.5  
Category: True Negative

---

Frame: 272 Total Penalty: 166.83043388079918  
GT\_area: 3800  
ST\_area: 0  
Overlap\_area: 217  
IOU: 0.717104312909842  
Centre Distance: 11.0  
Category: False Negative

---

Frame: 273 Total Penalty: 167.83043388079918  
GT\_area: 7175  
ST\_area: 0  
Overlap\_area: 208  
IOU: 0.717104312909842  
Centre Distance: 18.5  
Category: False Negative

---

Frame: 274 Total Penalty: 168.83043388079918  
GT\_area: 7420  
ST\_area: 0  
Overlap\_area: 207  
IOU: 0.717104312909842  
Centre Distance: 18.5  
Category: False Negative

---

Frame: 275 Total Penalty: 169.83043388079918  
GT\_area: 12470  
ST\_area: 0  
Overlap\_area: 200  
IOU: 0.717104312909842  
Centre Distance: 30.0  
Category: False Negative

---

Frame: 276 Total Penalty: 170.83043388079918  
GT\_area: 16275  
ST\_area: 0  
Overlap\_area: 195  
IOU: 0.717104312909842  
Centre Distance: 38.5  
Category: False Negative

---

Frame: 277 Total Penalty: 171.83043388079918  
GT\_area: 20832  
ST\_area: 0  
Overlap\_area: 196  
IOU: 0.717104312909842  
Centre Distance: 49.0  
Category: False Negative

-----  
Frame: 278 Total Penalty: 172.83043388079918  
GT\_area: 25857  
ST\_area: 0  
Overlap\_area: 193  
IOU: 0.717104312909842  
Centre Distance: 59.5  
Category: False Negative

-----  
Frame: 279 Total Penalty: 173.83043388079918  
GT\_area: 28416  
ST\_area: 0  
Overlap\_area: 2101  
IOU: 0.717104312909842  
Centre Distance: 75.0  
Category: False Negative

-----  
Frame: 280 Total Penalty: 174.83043388079918  
GT\_area: 27875  
ST\_area: 0  
Overlap\_area: 2292  
IOU: 0.717104312909842  
Centre Distance: 74.5  
Category: False Negative

-----  
Frame: 281 Total Penalty: 175.83043388079918  
GT\_area: 27875  
ST\_area: 0  
Overlap\_area: 5348  
IOU: 0.717104312909842  
Centre Distance: 90.5  
Category: False Negative

-----  
Frame: 282 Total Penalty: 176.83043388079918  
GT\_area: 28892  
ST\_area: 0  
Overlap\_area: 8883  
IOU: 0.717104312909842  
Centre Distance: 109.0  
Category: False Negative

-----  
Frame: 283 Total Penalty: 177.83043388079918  
GT\_area: 28980  
ST\_area: 0  
Overlap\_area: 11712  
IOU: 0.717104312909842  
Centre Distance: 124.0  
Category: False Negative

-----  
Frame: 284 Total Penalty: 178.83043388079918  
GT\_area: 30916  
ST\_area: 0  
Overlap\_area: 13419  
IOU: 0.717104312909842

Centre Distance: 136.5  
Category: False Negative

-----  
Frame: 285 Total Penalty: 179.83043388079918  
GT\_area: 27798  
ST\_area: 0  
Overlap\_area: 17388  
IOU: 0.717104312909842  
Centre Distance: 153.5  
Category: False Negative

-----  
Frame: 286 Total Penalty: 180.83043388079918  
GT\_area: 28625  
ST\_area: 0  
Overlap\_area: 17190  
IOU: 0.717104312909842  
Centre Distance: 152.5  
Category: False Negative

-----  
Frame: 287 Total Penalty: 181.83043388079918  
GT\_area: 28413  
ST\_area: 0  
Overlap\_area: 20055  
IOU: 0.717104312909842  
Centre Distance: 166.5  
Category: False Negative

-----  
Frame: 288 Total Penalty: 182.83043388079918  
GT\_area: 29358  
ST\_area: 0  
Overlap\_area: 21392  
IOU: 0.717104312909842  
Centre Distance: 175.0  
Category: False Negative

-----  
Frame: 289 Total Penalty: 183.83043388079918  
GT\_area: 27951  
ST\_area: 0  
Overlap\_area: 24066  
IOU: 0.717104312909842  
Centre Distance: 186.5  
Category: False Negative

-----  
Frame: 290 Total Penalty: 184.83043388079918  
GT\_area: 29140  
ST\_area: 0  
Overlap\_area: 26167  
IOU: 0.717104312909842  
Centre Distance: 199.0  
Category: False Negative

-----  
Frame: 291 Total Penalty: 185.83043388079918  
GT\_area: 28670  
ST\_area: 0

Overlap\_area: 28564  
IOU: 0.717104312909842  
Centre Distance: 209.0  
Category: False Negative

-----  
Frame: 292 Total Penalty: 186.08089583275617  
GT\_area: 27144  
ST\_area: 24931  
Overlap\_area: 22310  
IOU: 0.7495380480430035  
Centre Distance: 14.5  
Category: True Positive

-----  
Frame: 293 Total Penalty: 186.28771757957725  
GT\_area: 28798  
ST\_area: 24931  
Overlap\_area: 23766  
IOU: 0.7931782531789207  
Centre Distance: 11.0  
Category: True Positive

-----  
Frame: 294 Total Penalty: 186.4601349708816  
GT\_area: 27612  
ST\_area: 24931  
Overlap\_area: 23793  
IOU: 0.8275826086956521  
Centre Distance: 9.0  
Category: True Positive

-----  
Frame: 295 Total Penalty: 186.6355588478262  
GT\_area: 27261  
ST\_area: 24931  
Overlap\_area: 23587  
IOU: 0.82457612305541  
Centre Distance: 9.0  
Category: True Positive

-----  
Frame: 296 Total Penalty: 186.791130885653  
GT\_area: 24804  
ST\_area: 24931  
Overlap\_area: 22770  
IOU: 0.8444279621731875  
Centre Distance: 7.5  
Category: True Positive

-----  
Frame: 297 Total Penalty: 186.94386530581718  
GT\_area: 23000  
ST\_area: 24931  
Overlap\_area: 21984  
IOU: 0.8472655798358192  
Centre Distance: 7.5  
Category: True Positive

-----  
Frame: 298 Total Penalty: 187.11563281167417

GT\_area: 24232  
ST\_area: 24931  
Overlap\_area: 22272  
IOU: 0.8282324941430218  
Centre Distance: 9.5  
Category: True Positive

---

Frame: 299 Total Penalty: 187.28371238667134  
GT\_area: 23690  
ST\_area: 24931  
Overlap\_area: 22080  
IOU: 0.8319204250028258  
Centre Distance: 9.0  
Category: True Positive

---

Frame: 300 Total Penalty: 187.4594530995605  
GT\_area: 23587  
ST\_area: 24931  
Overlap\_area: 21922  
IOU: 0.8242592871108437  
Centre Distance: 8.0  
Category: True Positive

---

Frame: 301 Total Penalty: 187.64189778581368  
GT\_area: 25179  
ST\_area: 24931  
Overlap\_area: 22540  
IOU: 0.8175553137468262  
Centre Distance: 10.0  
Category: True Positive

---

Frame: 302 Total Penalty: 187.79521137337383  
GT\_area: 24948  
ST\_area: 24931  
Overlap\_area: 22869  
IOU: 0.8466864124398371  
Centre Distance: 8.5  
Category: True Positive

---

Frame: 303 Total Penalty: 187.97077435783436  
GT\_area: 24732  
ST\_area: 24931  
Overlap\_area: 22442  
IOU: 0.8244370155394732  
Centre Distance: 9.5  
Category: True Positive

---

Frame: 304 Total Penalty: 188.16794684339177  
GT\_area: 25312  
ST\_area: 24931  
Overlap\_area: 22374  
IOU: 0.8028275144425706  
Centre Distance: 10.5  
Category: True Positive

-----  
Frame: 305 Total Penalty: 188.34680833323046  
GT\_area: 24624  
ST\_area: 24931  
Overlap\_area: 22344  
IOU: 0.8211385101613318  
Centre Distance: 9.5  
Category: True Positive

-----  
Frame: 306 Total Penalty: 188.56477380055154  
GT\_area: 25538  
ST\_area: 24931  
Overlap\_area: 22148  
IOU: 0.7820345326789309  
Centre Distance: 12.0  
Category: True Positive

-----  
Frame: 307 Total Penalty: 188.74214906932954  
GT\_area: 25080  
ST\_area: 24931  
Overlap\_area: 22572  
IOU: 0.8226247312219833  
Centre Distance: 9.5  
Category: True Positive

-----  
Frame: 308 Total Penalty: 188.92634636973162  
GT\_area: 25650  
ST\_area: 24931  
Overlap\_area: 22725  
IOU: 0.8158026995979322  
Centre Distance: 9.5  
Category: True Positive

-----  
Frame: 309 Total Penalty: 189.11020020760157  
GT\_area: 23976  
ST\_area: 24931  
Overlap\_area: 21978  
IOU: 0.8161461621300456  
Centre Distance: 8.5  
Category: True Positive

-----  
Frame: 310 Total Penalty: 189.28581014484394  
GT\_area: 24198  
ST\_area: 24931  
Overlap\_area: 22200  
IOU: 0.8243900627576219  
Centre Distance: 8.0  
Category: True Positive

-----  
Frame: 311 Total Penalty: 189.4796094437046  
GT\_area: 24530  
ST\_area: 24931  
Overlap\_area: 22077  
IOU: 0.8062007011393515

Centre Distance: 9.5  
Category: True Positive

-----  
Frame: 312 Total Penalty: 189.66387069781504  
GT\_area: 23108  
ST\_area: 24931  
Overlap\_area: 21582  
IOU: 0.8157387458895566  
Centre Distance: 7.5  
Category: True Positive

-----  
Frame: 313 Total Penalty: 189.88692051069881  
GT\_area: 23976  
ST\_area: 24931  
Overlap\_area: 21384  
IOU: 0.7769501871162301  
Centre Distance: 10.0  
Category: True Positive

-----  
Frame: 314 Total Penalty: 190.08336610773935  
GT\_area: 22360  
ST\_area: 24931  
Overlap\_area: 21070  
IOU: 0.80355440295946  
Centre Distance: 7.5  
Category: True Positive

-----  
Frame: 315 Total Penalty: 190.27066817954673  
GT\_area: 22578  
ST\_area: 24931  
Overlap\_area: 21300  
IOU: 0.8126979281926056  
Centre Distance: 6.5  
Category: True Positive

-----  
Frame: 316 Total Penalty: 190.45579875267157  
GT\_area: 21840  
ST\_area: 24931  
Overlap\_area: 21000  
IOU: 0.8148694268751697  
Centre Distance: 5.5  
Category: True Positive

-----  
Frame: 317 Total Penalty: 190.67993094741485  
GT\_area: 23108  
ST\_area: 24931  
Overlap\_area: 20988  
IOU: 0.7758678052567373  
Centre Distance: 9.0  
Category: True Positive

-----  
Frame: 318 Total Penalty: 190.8744952104984  
GT\_area: 22366  
ST\_area: 24931

Overlap\_area: 21100  
IOU: 0.8054357369164408  
Centre Distance: 6.5  
Category: True Positive

-----  
Frame: 319 Total Penalty: 191.106783552905  
GT\_area: 22152  
ST\_area: 24931  
Overlap\_area: 20448  
IOU: 0.7677116575933921  
Centre Distance: 9.5  
Category: True Positive

-----  
Frame: 320 Total Penalty: 191.31271953738607  
GT\_area: 21311  
ST\_area: 24931  
Overlap\_area: 20467  
IOU: 0.7940640155189137  
Centre Distance: 7.0  
Category: True Positive

-----  
Frame: 321 Total Penalty: 191.5134337399246  
GT\_area: 21424  
ST\_area: 24931  
Overlap\_area: 20592  
IOU: 0.7992857974614758  
Centre Distance: 6.0  
Category: True Positive

-----  
Frame: 322 Total Penalty: 191.75314395407952  
GT\_area: 19291  
ST\_area: 24931  
Overlap\_area: 19100  
IOU: 0.760289785845076  
Centre Distance: 4.0  
Category: True Positive

-----  
Frame: 323 Total Penalty: 192.07720466181624  
GT\_area: 18025  
ST\_area: 24931  
Overlap\_area: 17325  
IOU: 0.675939292263275  
Centre Distance: 6.0  
Category: True Positive

-----  
Frame: 324 Total Penalty: 192.431774747082  
GT\_area: 16366  
ST\_area: 24931  
Overlap\_area: 16199  
IOU: 0.6454299147342418  
Centre Distance: 5.5  
Category: True Positive

-----  
Frame: 325 Total Penalty: 192.88170931503217



GT\_area: 14157  
ST\_area: 24931  
Overlap\_area: 13871  
IOU: 0.5500654320498076  
Centre Distance: 6.0  
Category: True Positive

---

Frame: 326 Total Penalty: 193.41417893117273  
GT\_area: 11656  
ST\_area: 24931  
Overlap\_area: 11656  
IOU: 0.4675303838594521  
Centre Distance: 3.5  
Category: True Positive

---

Frame: 327 Total Penalty: 194.0357745350394  
GT\_area: 9434  
ST\_area: 24931  
Overlap\_area: 9434  
IOU: 0.378404396133328  
Centre Distance: 2.0  
Category: True Positive

---

Frame: 328 Total Penalty: 194.73566623613442  
GT\_area: 7482  
ST\_area: 24931  
Overlap\_area: 7482  
IOU: 0.30010829890497775  
Centre Distance: 0.5  
Category: True Positive

---

Frame: 329 Total Penalty: 195.4493560199377  
GT\_area: 7138  
ST\_area: 24931  
Overlap\_area: 7138  
IOU: 0.2863102161967029  
Centre Distance: 0.5  
Category: True Positive

---

Frame: 330 Total Penalty: 196.18374292780342  
GT\_area: 6622  
ST\_area: 24931  
Overlap\_area: 6622  
IOU: 0.26561309213429063  
Centre Distance: 0.5  
Category: True Positive

---

Frame: 331 Total Penalty: 196.97733323705697  
GT\_area: 5146  
ST\_area: 24931  
Overlap\_area: 5146  
IOU: 0.20640969074646023  
Centre Distance: 0.0  
Category: True Positive

-----  
Frame: 332 Total Penalty: 197.81945750002276  
GT\_area: 3936  
ST\_area: 24931  
Overlap\_area: 3936  
IOU: 0.15787573703421443  
Centre Distance: 2.5  
Category: True Positive

-----  
Frame: 333 Total Penalty: 198.69274778119882  
GT\_area: 3159  
ST\_area: 24931  
Overlap\_area: 3159  
IOU: 0.12670971882395413  
Centre Distance: 3.0  
Category: True Positive

-----  
Frame: 334 Total Penalty: 199.59263146015275  
GT\_area: 2496  
ST\_area: 24931  
Overlap\_area: 2496  
IOU: 0.1001163210460872  
Centre Distance: 3.5  
Category: True Positive

-----  
Frame: 335 Total Penalty: 200.59263146015275  
GT\_area: 1800  
ST\_area: 0  
Overlap\_area: 42273  
IOU: 0.1001163210460872  
Centre Distance: 268.5  
Category: False Negative

-----  
Frame: 336 Total Penalty: 201.59263146015275  
GT\_area: 1425  
ST\_area: 0  
Overlap\_area: 42273  
IOU: 0.1001163210460872  
Centre Distance: 268.5  
Category: False Negative

-----  
Frame: 337 Total Penalty: 202.59263146015275  
GT\_area: 1554  
ST\_area: 0  
Overlap\_area: 41630  
IOU: 0.1001163210460872  
Centre Distance: 267.0  
Category: False Negative

-----  
Frame: 338 Total Penalty: 203.59263146015275  
GT\_area: 1065  
ST\_area: 0  
Overlap\_area: 42273  
IOU: 0.1001163210460872

Centre Distance: 266.5  
Category: False Negative

-----  
Frame: 339 Total Penalty: 204.59263146015275  
GT\_area: 368  
ST\_area: 0  
Overlap\_area: 43005  
IOU: 0.1001163210460872  
Centre Distance: 258.0  
Category: False Negative

-----  
Frame: 340 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 61985  
IOU: 0.1001163210460872  
Centre Distance: 387.0  
Category: True Negative

-----  
Frame: 341 Total Penalty: 204.59263146015275  
GT\_area: 6  
ST\_area: 0  
Overlap\_area: 66360  
IOU: 0.1001163210460872  
Centre Distance: 396.0  
Category: True Negative

-----  
Frame: 342 Total Penalty: 204.59263146015275  
GT\_area: 0  
ST\_area: 0  
Overlap\_area: 72890  
IOU: 0.1001163210460872  
Centre Distance: 395.5  
Category: True Negative

-----  
Frame: 343 Total Penalty: 204.59263146015275  
GT\_area: 3  
ST\_area: 0  
Overlap\_area: 80730  
IOU: 0.1001163210460872  
Centre Distance: 415.5  
Category: True Negative

-----  
Frame: 344 Total Penalty: 204.59263146015275  
GT\_area: 9  
ST\_area: 0  
Overlap\_area: 83000  
IOU: 0.1001163210460872  
Centre Distance: 416.5  
Category: True Negative

-----  
Frame: 345 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0

Overlap\_area: 86456  
IOU: 0.1001163210460872  
Centre Distance: 406.0  
Category: True Negative

-----  
Frame: 346 Total Penalty: 204.59263146015275  
GT\_area: 12  
ST\_area: 0  
Overlap\_area: 82820  
IOU: 0.1001163210460872  
Centre Distance: 406.0  
Category: True Negative

-----  
Frame: 347 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 96140  
IOU: 0.1001163210460872  
Centre Distance: 439.0  
Category: True Negative

-----  
Frame: 348 Total Penalty: 204.59263146015275  
GT\_area: 6  
ST\_area: 0  
Overlap\_area: 101926  
IOU: 0.1001163210460872  
Centre Distance: 452.5  
Category: True Negative

-----  
Frame: 349 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 105434  
IOU: 0.1001163210460872  
Centre Distance: 445.0  
Category: True Negative

-----  
Frame: 350 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 92020  
IOU: 0.1001163210460872  
Centre Distance: 430.0  
Category: True Negative

-----  
Frame: 351 Total Penalty: 204.59263146015275  
GT\_area: 6  
ST\_area: 0  
Overlap\_area: 95424  
IOU: 0.1001163210460872  
Centre Distance: 427.5  
Category: True Negative

-----  
Frame: 352 Total Penalty: 204.59263146015275

GT\_area: 8  
ST\_area: 0  
Overlap\_area: 97014  
IOU: 0.1001163210460872  
Centre Distance: 438.0  
Category: True Negative

---

Frame: 353 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 95076  
IOU: 0.1001163210460872  
Centre Distance: 419.0  
Category: True Negative

---

Frame: 354 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 94300  
IOU: 0.1001163210460872  
Centre Distance: 412.0  
Category: True Negative

---

Frame: 355 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 86528  
IOU: 0.1001163210460872  
Centre Distance: 418.0  
Category: True Negative

---

Frame: 356 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 101430  
IOU: 0.1001163210460872  
Centre Distance: 443.0  
Category: True Negative

---

Frame: 357 Total Penalty: 204.59263146015275  
GT\_area: 12  
ST\_area: 0  
Overlap\_area: 99992  
IOU: 0.1001163210460872  
Centre Distance: 433.0  
Category: True Negative

---

Frame: 358 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 113126  
IOU: 0.1001163210460872  
Centre Distance: 460.0  
Category: True Negative

-----  
Frame: 359 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 102907  
IOU: 0.1001163210460872  
Centre Distance: 429.0  
Category: True Negative

-----  
Frame: 360 Total Penalty: 204.59263146015275  
GT\_area: 12  
ST\_area: 0  
Overlap\_area: 112941  
IOU: 0.1001163210460872  
Centre Distance: 425.0  
Category: True Negative

-----  
Frame: 361 Total Penalty: 204.59263146015275  
GT\_area: 6  
ST\_area: 0  
Overlap\_area: 109140  
IOU: 0.1001163210460872  
Centre Distance: 429.5  
Category: True Negative

-----  
Frame: 362 Total Penalty: 204.59263146015275  
GT\_area: 9  
ST\_area: 0  
Overlap\_area: 96820  
IOU: 0.1001163210460872  
Centre Distance: 413.5  
Category: True Negative

-----  
Frame: 363 Total Penalty: 204.59263146015275  
GT\_area: 6  
ST\_area: 0  
Overlap\_area: 99875  
IOU: 0.1001163210460872  
Centre Distance: 426.5  
Category: True Negative

-----  
Frame: 364 Total Penalty: 204.59263146015275  
GT\_area: 0  
ST\_area: 0  
Overlap\_area: 99680  
IOU: 0.1001163210460872  
Centre Distance: 446.0  
Category: True Negative

-----  
Frame: 365 Total Penalty: 204.59263146015275  
GT\_area: 9  
ST\_area: 0  
Overlap\_area: 99296  
IOU: 0.1001163210460872

Centre Distance: 429.5  
Category: True Negative

-----  
Frame: 366 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 97520  
IOU: 0.1001163210460872  
Centre Distance: 426.0  
Category: True Negative

-----  
Frame: 367 Total Penalty: 204.59263146015275  
GT\_area: 9  
ST\_area: 0  
Overlap\_area: 104160  
IOU: 0.1001163210460872  
Centre Distance: 435.5  
Category: True Negative

-----  
Frame: 368 Total Penalty: 204.59263146015275  
GT\_area: 4  
ST\_area: 0  
Overlap\_area: 115101  
IOU: 0.1001163210460872  
Centre Distance: 442.0  
Category: True Negative

-----  
Frame: 369 Total Penalty: 204.59263146015275  
GT\_area: 6  
ST\_area: 0  
Overlap\_area: 98935  
IOU: 0.1001163210460872  
Centre Distance: 422.5  
Category: True Negative

-----  
Frame: 370 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 114879  
IOU: 0.1001163210460872  
Centre Distance: 449.0  
Category: True Negative

-----  
Frame: 371 Total Penalty: 204.59263146015275  
GT\_area: 8  
ST\_area: 0  
Overlap\_area: 118350  
IOU: 0.1001163210460872  
Centre Distance: 452.0  
Category: True Negative

-----  
Frame: 372 Total Penalty: 205.37025770859844  
GT\_area: 5544  
ST\_area: 24931

Overlap\_area: 5544  
IOU: 0.22237375155428984  
Centre Distance: 1.5  
Category: True Positive

-----  
Frame: 373 Total Penalty: 206.37025770859844  
GT\_area: 15862  
ST\_area: 0  
Overlap\_area: 36815  
IOU: 0.22237375155428984  
Centre Distance: 250.5  
Category: False Negative

-----  
Frame: 374 Total Penalty: 207.37025770859844  
GT\_area: 15600  
ST\_area: 0  
Overlap\_area: 37370  
IOU: 0.22237375155428984  
Centre Distance: 252.0  
Category: False Negative

-----  
Frame: 375 Total Penalty: 208.37025770859844  
GT\_area: 20904  
ST\_area: 0  
Overlap\_area: 36075  
IOU: 0.22237375155428984  
Centre Distance: 247.0  
Category: False Negative

-----  
Frame: 376 Total Penalty: 209.37025770859844  
GT\_area: 22018  
ST\_area: 0  
Overlap\_area: 35156  
IOU: 0.22237375155428984  
Centre Distance: 242.5  
Category: False Negative

-----  
Frame: 377 Total Penalty: 210.37025770859844  
GT\_area: 21828  
ST\_area: 0  
Overlap\_area: 33670  
IOU: 0.22237375155428984  
Centre Distance: 235.5  
Category: False Negative

-----  
Frame: 378 Total Penalty: 211.37025770859844  
GT\_area: 23843  
ST\_area: 0  
Overlap\_area: 31659  
IOU: 0.22237375155428984  
Centre Distance: 229.5  
Category: False Negative

-----  
Frame: 379 Total Penalty: 212.37025770859844



GT\_area: 23826  
ST\_area: 0  
Overlap\_area: 30895  
IOU: 0.22237375155428984  
Centre Distance: 224.0  
Category: False Negative

---

Frame: 380 Total Penalty: 213.37025770859844  
GT\_area: 23643  
ST\_area: 0  
Overlap\_area: 31110  
IOU: 0.22237375155428984  
Centre Distance: 225.5  
Category: False Negative

---

Frame: 381 Total Penalty: 214.37025770859844  
GT\_area: 24150  
ST\_area: 0  
Overlap\_area: 30340  
IOU: 0.22237375155428984  
Centre Distance: 221.5  
Category: False Negative

---

Frame: 382 Total Penalty: 215.37025770859844  
GT\_area: 25134  
ST\_area: 0  
Overlap\_area: 29280  
IOU: 0.22237375155428984  
Centre Distance: 219.0  
Category: False Negative

---

Frame: 383 Total Penalty: 216.37025770859844  
GT\_area: 26015  
ST\_area: 0  
Overlap\_area: 28860  
IOU: 0.22237375155428984  
Centre Distance: 216.5  
Category: False Negative

---

Frame: 384 Total Penalty: 217.37025770859844  
GT\_area: 26937  
ST\_area: 0  
Overlap\_area: 27150  
IOU: 0.22237375155428984  
Centre Distance: 211.5  
Category: False Negative

---

Frame: 385 Total Penalty: 218.37025770859844  
GT\_area: 26908  
ST\_area: 0  
Overlap\_area: 25883  
IOU: 0.22237375155428984  
Centre Distance: 205.0  
Category: False Negative

```
-----  
Frame: 386 Total Penalty: 219.37025770859844  
GT_area: 26568  
ST_area: 0  
Overlap_area: 24344  
IOU: 0.22237375155428984  
Centre Distance: 197.5  
Category: False Negative
```

```
-----  
Frame: 387 Total Penalty: 220.37025770859844  
GT_area: 27528  
ST_area: 0  
Overlap_area: 23760  
IOU: 0.22237375155428984  
Centre Distance: 197.0  
Category: False Negative
```

```
-----  
Total Penalty: 220.37025770859844  
True Positive: 153  
False Positive: 0  
True Negative: 41  
False Negative: 192  
Average Time: 0.013265435559761956  
>>>
```