% this is ../../crops/18r/planning/current_pedigrees/secondary_dominants/les-n1378-_cm105
% generated Friday, June 01, 2018 at 21:28:50 UTC (=1527888530.962928) by compute_pedigrees/1.

% Horizontal pedigrees, generations at same indentation. S: Mo20W; W: W23; M: M14.
% !!! => cross was not by Toni; references to image locations on right.

% CM105/Les*-N1378-

```
06R0074:0000000 x 06R0074:0000000
     06R0074:0007401 x 06R0074:0007408
          09R201:S0041114 x 09R1119:0029103          09R1119:0029103: [09r/gimmel/13.9-[146]]
          09R201:S0041405 x 09R1119:0029105          09R1119:0029105: [09r/gimmel/13.9-[143]]
          09R201:S0041406 x 09R1119:0029111          09R1119:0029111: [09r/gimmel/13.9-[145]]
          09R301:W0041306 x 09R1119:0029103          09R1119:0029103: [09r/gimmel/13.9-[146]]
          09R301:W0041308 x 09R1119:0029105          09R1119:0029105: [09r/gimmel/13.9-[143]]
          09R301:W0041310 x 09R1119:0029111          09R1119:0029111: [09r/gimmel/13.9-[145]]
          09R401:M0043209 x 09R1119:0029103          09R1119:0029103: [09r/gimmel/13.9-[146]]
          09R401:M0043506 x 09R1119:0029105          09R1119:0029105: [09r/gimmel/13.9-[143]]
          09R401:M0043510 x 09R1119:0029111          09R1119:0029111: [09r/gimmel/13.9-[145]]
     06R0074:0007409 x 06R0074:0007414
     09R201:S0040811 x 09R0074:0029003          09R0074:0029003: [09r/gimmel/13.9-[140]]
          10R205:S0001403 x 10R3057:0035909          10R3057:0035909: [10r/gimmel/16.8-[600]]
          10R205:S0006705 x 10R3057:0035915          10R3057:0035915: [10r/gimmel/16.8-[601]]
          10R205:S0009817 x 10R3057:0035907          10R3057:0035907: [10r/gimmel/16.8-[599]]
               11N205:S0033008 x 11N3317:0022808
                    12R205:S0010907 x 12R3677:0034407          12R3677:0034407: [12r/aleph/9.8-[2164]]
                    12R205:S0010908 x 12R3677:0034411          12R3677:0034411: [12r/aleph/9.8-[2163]]
                    12R205:S0010909 x 12R3677:0034411          12R3677:0034411: [12r/aleph/9.8-[2163]]
                    12R205:S0010910 x 12R3677:0034407          12R3677:0034407: [12r/aleph/9.8-[2164]]
                         13R205:S0000201 x 13R4187:0030701
                              14R205:S0000101 x 14R4314:0027101          14R4314:0027101: [14r/bet/24.8-[2426]]
                              14R205:S0000102 x 14R4314:0027105          14R4314:0027105: [14r/bet/23.8-[2385]]
                              14R205:S0000213 x 14R4314:0027109          14R4314:0027109: [14r/bet/23.8-[2401]]
                         13R205:S0000403 x 13R4187:0030701
               11N205:S0033011 x 11N3317:0022804
     09R201:S0040812 x 09R0074:0029012          09R0074:0029012: [09r/gimmel/13.9-[135]]
     09R301:W0041007 x 09R0074:0029003          09R0074:0029003: [09r/gimmel/13.9-[140]]
          10R305:W0009102 x 10R3058:0036015          10R3058:0036015: [10r/gimmel/16.8-[605]]
               11R305:W0044403 x 11R3318:0030005          11R3318:0030005: [11r/aleph/19.8-[1148]]
               11N305:W0032606 x 11N3482:0022909
               11N305:W0032607 x 11N3482:0022907
                    12R305:W0001712 x 12R3678:0034509          12R3678:0034509: [12r/aleph/9.8-[2147]]
                    12R305:W0008917 x 12R3678:0034501          12R3678:0034501: [12r/aleph/9.8-[2161]]
                    12R305:W0009204 x 12R3678:0034502          12R3678:0034502: [12r/aleph/9.8-[2152]]
                         13R305:W0003502 x 13R4188:0030801
                              14R4269:0015001 x 14R4269:0015007          14R4269:0015007: [14r/bet/22.8-[2274]]
                              14R4269:0015004 x 14R4269:0015007          14R4269:0015007: [14r/bet/22.8-[2274]]
```

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                          14R4269:0015005 x 14R4269:0015007        14R4269:0015007: [14r/bet/22.8-[2274]]
                          14R4269:0015009 x 14R4269:0015007        14R4269:0015007: [14r/bet/22.8-[2274]]
                          14R4269:0015013 x 14R4269:0015007        14R4269:0015007: [14r/bet/22.8-[2274]]
                          14R4269:0015015 x 14R4269:0015007        14R4269:0015007: [14r/bet/22.8-[2274]]
                          14R4269:0015018 x 14R4269:0015007        14R4269:0015018: [14r/bet/24.8-[2419]]
     14R4269:0015007: [14r/bet/22.8-[2274]]
                          14R505:B0002011 x 14R4269:0015007        14R4269:0015007: [14r/bet/22.8-[2274]]
                          14R505:B0002110 x 14R4269:0015007        14R4269:0015007: [14r/bet/22.8-[2274]]
                          14R505:B0002112 x 14R4269:0015007        14R4269:0015007: [14r/bet/22.8-[2274]]
                     13R305:W0003508 x 13R4188:0030801
               11N305:W0034404 x 11N3482:0022905
          10R305:W0009109 x 10R3058:0036008         10R3058:0036008: [10r/gimmel/16.8-[602]]
      09R301:W0041303 x 09R0074:0029012         09R0074:0029012: [09r/gimmel/13.9-[135]]
      09R401:M0043201 x 09R0074:0029003         09R0074:0029003: [09r/gimmel/13.9-[140]]
         10R405:M0006304 x 10R3059:0036111         10R3059:0036111: [10r/gimmel/16.8-[608]]
         10R405:M0006305 x 10R3059:0036107         10R3059:0036107: [10r/gimmel/16.8-[606]]
            11R405:M0050702 x 11R3319:0030104
               11N405:M0030903 x 11N3483:0023003
               11N405:M0031210 x 11N3483:0023007
            12R205:S0010302 x 12R3679:0034605         12R3679:0034605: [12r/aleph/9.8-[2191]]
                  13R205:S0000203 x 13R4189:0030901
                  13R405:M0033003 x 13R4189:0030901
            12R205:S0010309 x 12R3679:0034605         12R3679:0034605: [12r/aleph/9.8-[2191]]
            12R405:M0011113 x 12R3679:0034602         12R3679:0034602: [12r/aleph/9.8-[2154]]
               14R405:M0001508 x 14R4315:0027208
               14R405:M0001511 x 14R4315:0027203          14R4315:0027203: [14r/bet/23.8-[2405]]
               14R405:M0001512 x 14R4315:0027205          14R4315:0027205: [14r/bet/23.8-[2391]]
            12R405:M0011114 x 12R3679:0034604
         11N405:M0038404 x 11N3483:0023002
```