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525,5,11,45.9,,25_01_07,,,exp.unknown
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2297,5,12,21.5,2,38_02_04,,,chain exp.
2298,5,12,21.5,2,38_02_04,,,chain exp.
2299,5,12,21.5,2,38_02_04,,,chain exp.
2301,5,12,21.5,2,38_02_04,,,chain exp.
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976,5,13,43.3,15,30_09_27,,HiSpeed,chain exp.
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546,5,20,-1.1,0.2,25_01_15,,Spw1048,chain exp.
547,5,20,-1.1,0.2,25_01_15,,Spw1048,chain exp.
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2304,5,23,18.6,2,38_02_08,,,chain exp.
79,5,28,-5.5,60,14_11_23,,,Orion neb
298,5,28,-5.2,30,16_11_21,,,
587,5,29,25,20,25_11_18,,,chain exp.
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6493,5,33,-5.4,20,80_09_04,44487.865,103aO,
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4838,5,34,-5,7,70_03_06,,,Orion Belt
4839,5,34,-5,5,70_03_06,,,Orion Belt
4840,5,34,-5,6,70_03_06,,,Orion Belt
4849,5,34,-5,31,70_03_09,40655.588,,
86,5,34,1.5,17,14_12_10,,,Orion neb
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2322,6,40,4.7,5,38_03_06,,,chain exp.
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5124,15,23,20.75,42,72_06_15,,,
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7054,15,32,-13.2,5,83_07_08,,103aO,
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4214,15,37.5,4.42,12,64_08_19,,,
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2794,15,39,26.3,1.8,40_06_23,,,
2823,15,39,26.3,2,40_07_09,,,chain exp.
2825,15,39,26.3,2,40_07_10,,,
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6137,15,40,16,30,79_05_01,43995.663,103aO,
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5730,15,40,18,30,76_06_25,42955.63,,
5753,15,40,18,5,76_07_22,42982.685,,
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2791,15,40,26.3,2,40_06_21,,,
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2807,15,40,26.3,2,40_07_05,,,
2816,15,40,26.3,2,40_07_07,,,
2817,15,40,26.3,2,40_07_07,,,
2835,15,40,26.3,1.5,40_07_23,,,
2840,15,40,26.3,1.5,40_07_27,,,
2853,15,40,26.3,1,40_08_01,,,chain exp.
2851,15,40,26.5,1.7,40_07_31,,,
2860,15,40,26.5,1,40_08_03,,,chain exp.
2901,15,40,26.5,1,40_08_14,,,
2907,15,41,7.5,3,40_08_17,,,
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6163,15,41,18.1,30,79_06_14,44039.59,103aO,
6372,15,42,18,45,80_06_11,44402.663,103aO,
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2781,15,42,26.4,3,40_06_11,,,chain exp.
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1772,15,46,28.4,2.5,34_11_22,,,
1773,15,46,28.4,2,34_11_22,,,
1774,15,46,28.4,2,34_11_27,,,
1789,15,46,28.4,5,34_12_08,,,
1794,15,46,28.4,,35_03_03,,,exp.unknown
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1762,15,46,28.5,5,34_11_08,,,
1791,15,47,28.6,15,35_02_28,,,
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4301,17,8,39.5,2,65_08_20,,,
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103,17,14,-4.19,10,15_06_05,,,chain exp.
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106,17,14,-4.19,10,15_06_05,,,chain exp.
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101,17,20,-3.47,10,15_06_29,,,
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122,17,21,-11,10,15_09_13,,,chain exp.
124,17,21,-11,10,15_09_03,,,
125,17,21,-11,10,15_09_03,,,chain exp.
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2459,18,30,-12.5,15,38_09_02,29144.683,,
2547,18,30,-11,5,39_07_05,29450.589,,
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6901,18,30,-11,40,82_07_18,45169.684,103aO,
7410,18,30,-11,20,84_09_21,45965.581,103aO,
7555,18,30,-11,30,85_07_24,46271.694,103aO,
7582,18,30,-11,30,85_09_13,46322.578,103aO,
7814,18,30,-11,30,87_06_24,46971.788,103aO+N2,
7825,18,30,-11,30,87_06_28,46975.766,103aO+N2
7865,18,30,-11,30,87_07_29,47006.709,103aO+N2
7908,18,30,-11,30,87_08_21,47029.613,103aO+N2
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8118,18,30,-11,30,89_07_30,47738.678,103aO+N2
8209,18,30,-11,30,90_05_31,48043.77,103aO+N2
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8343,18,30,-11,30,91_06_14,48422.715,103aO+N2
8401,18,30,-11,30,91_08_10,48479.615,103aO+N2
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1994,18,30,-2,60,36_06_17,28337.781,,
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6899,18,30,23.5,2,82_07_18,,103aO,focusing
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2172,18,31,-8.1,35,37_08_29,28775.607,,
579,18,31,90,,25_08_28,,HammerSp,Pole
6927,18,32,-23.2,10,82_07_26,45177.696,103aO,
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2420,18,32,-8,10,38_07_30,29110.689,,
2421,18,32,-8,15,38_07_30,29110.701,,
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8392,18,33,-24,45,91_08_06,48475.609,103aO+N2,
3662,18,33,-23.8,30,57_07_19,36039.627,,
877,18,33,-22.2,0.1,30_07_08,,,
8389,18,33,-22.1,40,91_07_05,48474.603,103aO+N2,
6179,18,33,-6,30,79_06_26,44050.593,103aO,
647,18,33,-3,15,27_09_02,,Speedway,
650,18,33,-3,30,27_09_06,,Speedway,
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841,18,33,0.2,45,29_09_04,,,
842,18,33,0.2,5,29_09_04,,
843,18,33,0.2,38,29_09_04,,
840,18,33,0.8,11,29_09_03,,HiSpeed
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560,18,34,-9.2,5,25_06_23,,
1237,18,34,-2,60,31_07_12,,
2559,18,34,90,10,39_07_11,,
7672,18,35,-27,20,86_06_03,46585.742,IIaO
5827,18,35,-16,45,76_09_25,43047.582,
897,18,35,-5.5,60,30_07_30,,
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1239,18,35,-1.9,60,31_07_12,,
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1241,18,35,-1.9,60,31_07_12,,
1245,18,35,-1.9,38,31_07_17,,
4933,18,36,-25.5,45,70_08_07,40806.65,
2662,18,36,-10.6,13,39_09_05,29512.566,,
2688,18,36,-10.4,30,39_09_13,29520.548,,
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8444,18,36,38.8,0.5,92_06_25,48799.71,,chain exp.
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2446,18,37,-4.3,20,38_08_25,29136.556,,
580,18,37,-1.6,88,25_09_10,,
6258,18,38,-23,10,80_08_17,44469.543,103aO
6460,18,38,-23,10,80_08_17,44469.594,103aO
6462,18,38,-23,10,80_08_17,44469.645,103aO
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937,18,38,-6.9,45,30_08_20,,
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774,18,38,-4.4,30,29_07_04,,HiSpeed
2571,18,38,90,30,39_07_15,,
2668,18,38,90,30,39_09_07,,
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933,18,39,-6.9,35,30_08_19
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965,18,39,-6.9,60,30_09_14,,HiSpeed
966,18,39,-6.9,60,30_09_14,,HiSpeed
968,18,39,-6.9,120,30_09_19,,HiSpeed
971,18,39,-6.9,60,30_09_22,,HiSpeed
972,18,39,-6.9,60,30_09_23,,HiSpeed
982,18,39,-6.9,45,30_10_12,,HiSpeed
902,18,39,-6.7,60,30_07_31,,
935,18,39,-6.7,62,30_08_20,,,
919,18,39,-6.6,60,30_08_13,,,
898,18,39,-6.2,60,30_07_30,,,
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925,18,39,39.5,10,30_08_16,,,chain exp.
2569,18,39,90,30,39_07_15,,,
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2680,18,39,90,30,39_09_09,,,
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233,18,40,-26.4,6,16_08_15,,,
237,18,40,-26.4,10,16_08_17,,,
8224,18,40,-15,30,90_06_25,48068.771,103aO+N2
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773,18,40,-4.4,15,29_07_04,,HiSpeed
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1498,18,40,-3.1,60,33_06_23,27247.787,
1499,18,40,-3.1,25,33_06_23,27247.817,
1547,18,40,-3.1,60,33_08_26,27311.703,
1496,18,40,-3,60,33_06_23,27247.698,
1490,18,40,-3,66,33_06_15,27239.688,
1492,18,40,-3,28,33_06_22,27246.653,
1494,18,40,-3,60,33_06_23,27247.611,
1495,18,40,-3,60,33_06_23,27247.656,
1501,18,40,-3,60,33_06_24,27248.644,
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1381,18,40,-2,60,32_07_06,,
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836,18,40,-0.8,30,29_08_24,,HiSpeed
837,18,40,-0.8,22,29_08_25,,HiSpeed
838,18,40,0.8,45,29_08_28,,HiSpeed
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2927,18,40,90,30,40_08_26,,
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2613,18,42,-4.5,10,39_08_10,29486.754,
2622,18,42,-4.5,10,39_08_12,29488.641,
414,18,42,36.3,10,20_10_08,,
702,18,43,-5.7,180,28_06_10,,
246,18,44,-26.2,10,16_08_25,,
8064,18,44,-10.5,40,88_08_04,47378.623,103aO+N2
8153,18,44,-10,31,89_10_03,47803.541,103aO+N2
7507,18,44,-9.9,30,85_06_19,46236.699,103aO
2515,18,44,-6.7,60,39_06_17,29432.664,
703,18,44,-6,180,28_06_11,,
706,18,44,-6,73,28_06_16,,
708,18,44,-6,180,28_07_08,,
729,18,44,-6,90,28_08_14,,Spw2030
806,18,44,-6,180,29_07_28,,HiSpeed
6151,18,44,-6,30,79_05_22,44016.783,103aO
5167,18,44,-5.5,18,72_08_15,41545.674,
5193,18,44,-5.5,25,72_09_07,41568.631,,
5232,18,44,-5.5,15,72_10_01,41592.537,,
5847,18,44,-5.5,30,77_05_13,43277.748,,
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5890,18,44,-5.5,35,77_07_10,43335.702,,
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6865,18,45,-28,30,82_05_17,45107.806,103aO,
227,18,45,-26.2,10,16_08_01,,,chain exp.
8061,18,45,-11.8,30,88_07_15,47358.734,103aO+N2,
8436,18,45,-8,30,91_09_09,48509.551,,
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847,18,45,-6.4,32,29_09_28,,HiSpeed,
848,18,45,-6.4,15,29_10_04,,HiSpeed,
845,18,45,-6.2,60,29_09_25,,HiSpeed,
600,18,45,-6.1,180,26_07_08,,
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656,18,45,-6,10,27_09_16,,Speedway
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658,18,45,-6,10,27_09_17,,Speedway
659,18,45,-6,65,27_09_17,,
661,18,45,-6,120,27_09_20,,
665,18,45,-6,90,27_09_23,,
709,18,45,-6,34,28_07_09,,
710,18,45,-6,99,28_07_10,,
716,18,45,-6,180,28_07_25,,
718,18,45,-6,60,28_07_26,,
721,18,45,-6,60,28_08_03,,
722,18,45,-6,36,28_08_04,,Spw2030
738,18,45,-6,90,28_08_16,,BarnetStella
711,18,45,6,120,28_07_16,,
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498,18,45.7,-6.23,60,24_08_29,,CramerHS
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1426,18,46,-7,18,32_08_09,,
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324,18,46,-6.5,10,17_08_08,,
891,18,46,-6.5,60,30_07_25,,
892,18,46,-6.5,60,30_07_25,,
499,18,46,-6.4,180,24_08_30,,CramerHS
563,18,46,-6.4,175,25_07_18,,Spw1078
605,18,46,-6.4,180,26_08_08,,
607,18,46,-6.4,180,26_08_09,,Speedway
609,18,46,-6.4,120,26_08_10,,Speedway
671,18,46,-6.4,120,27_09_30,,
672,18,46,-6.4,90,27_10_01,,
701,18,46,-6.4,45,28_06_08,,
978,18,46,-6.4,30,30_10_10,,HiSpeed
980,18,46,-6.4,43,30_10_11,,HiSpeed
984,18,46,-6.4,92,30_10_13,,HiSpeed
986,18,46,-6.4,60,30_10_22,,HiSpeed
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759,18,46,-6.3,90,28_10_07,
761,18,46,-6.3,150,28_10_08,
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1586,18,46,-6.3,60,33_10_16,27362.515,
1979,18,46,-6.3,60,36_05_16,28305.714,
565,18,46,-6.2,26,25_08_08,,Spw1078
599,18,46,-6.1,175,26_07_04,,
601,18,46,-6.1,180,26_07_12,,
322,18,46,-6,10,17_07_17,,
634,18,46,-6,26,27_06_30,,
635,18,46,-6,180,27_07_04,,
670,18,46,-6,60,27_09_29,,
685,18,46,-6,60,27_11_14,,
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781,18,46,-5,24,29_07_11,,
782,18,46,-5,20,29_07_11,,
783,18,46,-5,30,29_07_11,,
784,18,46,-5,24,29_07_11,,
797,18,46,-5,20,29_07_16,,HiSpeed
798,18,46,-5,46,29_07_16,,HiSpeed
7388,18,46,-4.9,30,84_09_16,45960.569,103aO
8204,18,46,-4.9,30,90_05_30,48042.724,103aO+N2
777,18,46,-4.8,30,39_07_11,,HiSpeed
778,18,46,-4.8,30,29_07_11,,
779,18,46,-4.8,30,29_07_11,,
785,18,46,-4.8,30,29_07_12,,
786,18,46,-4.8,30,29_07_12,,
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788,18,46,-4.8,29,29_07_12,,
789,18,46,-4.8,30,29_07_12,,
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791,18,46,-4.8,30,29_07_12,,
792,18,46,-4.8,30,29_07_12,,
793,18,46,-4.8,30,29_07_12,,
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796,18,46,-4.8,46,29_07_15,,HiSpeed
799,18,46,-4.8,30,29_07_24,,HiSpeed
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794,18,46,4.8,30,29_07_12,,
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1862,18,47,-10,60,35_07_28,28012.637,
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597,18,47,-6.4,180,26_07_02,,Presto
2053,18,47,-6.4,74,36_08_09,28390.618,
1755,18,47,-6.3,26,34_10_08,27719.53,
1945,18,47,-6.3,24,35_10_03,28079.565,
1983,18,47,-6.3,63,36_05_20,28309.735,
2160,18,47,-6.3,45,37_08_07,28753.664,
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566,18,47,-6.2,27,25_08_09,,
567,18,47,-6.2,180,25_08_11,,Spw1078
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2615,18,48,-8,30,39_08_11,29487.594,
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872,18,48,-6.6,60,30_07_04,,
884,18,48,-6.5,60,30_07_20,,HiSpeed
889,18,48,-6.5,53,30_07_23,,
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887,18,48,-6,55,30_07_20,,HiSpeed
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2676,18,48,90,12,39_09_09,
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2679,18,48,90,10,39_09_09,
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2395,18,49,-6.3,60,38_07_04,29084.694
2396,18,49,-6.3,60,38_07_04,29084.747
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2399,18,49,-6.3,60,38_07_05,29085.713
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2416,18,49,-6.3,30,38_07_30,29110.607
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7579,18,50,-6.2,30,85_09_11,46320.569,103aO
7701,18,50,-6.2,30,86_07_14,46626.705,103aO
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8123,18,50,-6.2,30,89_07_31,47739.661,103aO+N2
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6128,18,50,-1,29,79_04_23,43987.771,103aO
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1383,18,52,-11,60,32_07_07,,
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1388,18,52,-11,60,32_07_09,,
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1390,18,52,-11,60,32_07_09,,
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1402,18,52,-11,60,32_08_01,
1403,18,52,-11,48,32_08_01,
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667,18,52,-3.4,30,27_09_24,
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687,18,52,-3.4,10,27_11_15,,
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570,18,52,-2.6,180,25_08_16,,Spw1078
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573,18,52,-2,180,25_08_22,,Spw1078
575,18,52,-2,270,25_08_23,,Spw1078
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642,18,53,-0.9,90,27_08_05,,
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644,18,53,-0.9,120,27_08_17,,Speedway
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2587,18,53,90,30,39_07_23,
704,18,54,-12.9,180,28_06_15,
2564,18,54,-6.4,10,39_07_15,29460.625
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2138,18,54,-0.8,45,37_07_16,28731.696
2142,18,54,-0.8,60,37_07_28,28743.603
2144,18,54,-0.8,30,37_07_29,28744.584
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2566,18,54,90,10,39_07_15,
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2150,18,55,-1.8,30,37_08_03,28749.7
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2554,18,55,90,10,39_07_11,,
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2418,18,56,-13,30,38_07_30,29110.645,
823,18,56,-8,45,29_08_07,,
818,18,56,-7.6,45,29_08_04,,
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820,18,56,-7.6,45,29_08_04,,
821,18,56,-7.6,36,29_08_04,,
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827,18,58,-8.2,45,29_08_07,,
828,18,58,-8.2,45,29_08_07,,
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2009,19,0,-10.1,15,36_06_25,28345.623,
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3648,19,0,-3.8,30,56_10_07,,
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1540,19,0,-2,60,33_08_17,27302.604
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1842,19,0,-2,60,35_07_03,27987.801
1845,19,0,-2,60,35_07_04,27988.675
1846,19,0,-2,42,35_07_04,27988.741
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1229,19,0,-1.8,90,31_06_21,,
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801,19,0,-1,30,29_07_26,,HiSpeed
802,19,0,-1,45,29_07_27,,HiSpeed
803,19,0,-1,45,29_07_27,,HiSpeed
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8410,19,2,-7.3,30,91_08_11,48480.617,103aO+N2,
8411,19,2,-7.3,30,91_08_11,48480.643,103aO+N2
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7708,19,2,-3,30,86_07_16,46628.799,103aO
7720,19,2,-3,30,86_08_14,46657.724,103aO
7733,19,2,-3,30,86_08_30,46673.573,103aO+N2
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7832,19,2,-3,30,87_07_06,46983.782,103aO+N2
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7945,19,2,-3,30,87_08_30,47038.712,103aO+N2
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224,19,6.1,-25.8,,16_07_07,,,chain exp.
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6834,19,9,-14.4,9,82_04_19,45079.861,103aO,
6835,19,9,-14.4,5,82_04_22,45082.836,103aO,chain exp.
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6980,19,9,-14.4,8,82_09_08,45221.649,103aO,
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7062,19,9,-14.4,10,83_07_09,45525.714,103aO
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7176,19,9,-14.4,10,83_10_03,45611.583,103aO
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7181,19,9,-14.4,10,83_10_06,45614.522,103aO
7182,19,9,-14.4,10,83_10_06,45614.559,103aO
7201,19,9,-14.4,10,83_10_08,45616.566,103aO
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7531,19,9,-14.4,11,85_07_13,46260.646,IIaO
7546,19,9,-14.4,10,85_07_23,46270.6,103aO
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3367,19,44,40.6,32,49_11_15,,HiSpSpec
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157,23,24.8,-8.48,10,15_10_10,,,chain exp.
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161,23,24.8,-8.48,10,15_10_10,,,chain exp.
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7163,23,33,-1.2,10,83_09_15,,103aO,
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92,23,34,16.9,60.5,14_12_17,,,Eros
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147,23,41.8,-3.18,80,15_09_16,,,
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4002,,,,0.25,61_10_17,,,Jup+Sat,,
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848b,,,,,30_04_28,,CrSupCon,Sun eclip.,,
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