The y files contain results from ps routine that was created in June 1997 to measure direct normal sun irradiance at nominal wavelengths 320, 480, 340, 510, 360, 540nm in order to generate Langley plots from which one could obtain aerosol optical depths.

The routine has not been widely used and it might contain some mistakes. As of this date, NEUBrew network uses the routine. However, its modified versions are being tested.

ps	"ps"
71.293	Sun zenith angle
230.9764	Sun azimuth angle
3.035	Airmass
14	Temperature in deg C
320	Set filter #2
dark	"dark"
1	dark cts at cy=TBD ← — Note 1
1353.63	time in min from midnight GMT
66	cts at cy=5 for 320nm
4540	cts at cy=5 for 480nm
72	cts at cy=5 for 340nm
216	cts at cy=5 for 510nm
3985	cts at cy=5 for 360nm
6370	cts at cy=5 for 540nm

Note 1: As of 2007-MAR-19 the original PS routine was modified to fix the number of cycles to 5. Prior to this date, the number of cycles used in the PS routine was probably set arbitrarily by what ever routine preceded it in the schedule.