**Molecular Geometry of Monomeric and Dimeric Yttrium Trichloride from Gas-
Phase Electron Diffraction and Quantum Chemical Calculations**

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Supporting Information

Total Experimental Intensities for Yttrium Trichloride

Temperature= 1312 K

Camera range= 19 cm

$s_{\min}=7.7500$ $s_{\max}=35.500$ step size=.2500

0.3665	1.0036	1.0099	0.9922	0.9635	0.9339	0.9087	0.8913
0.8896	0.8993	0.9143	0.9317	0.9412	0.9413	0.9345	0.9218
0.9064	0.8950	0.8913	0.8920	0.8984	0.9061	0.9134	0.9129
0.9088	0.8986	0.8874	0.8785	0.8724	0.8696	0.8712	0.8730
0.8750	0.8733	0.8696	0.8647	0.8553	0.8478	0.8415	0.8367
0.8341	0.8333	0.8321	0.8301	0.8279	0.8236	0.8180	0.8112
0.8054	0.8013	0.7969	0.7947	0.7919	0.7899	0.7873	0.7840
0.7791	0.7741	0.7701	0.7657	0.7612	0.7583	0.7558	0.7530
0.7510	0.7476	0.7450	0.7405	0.7377	0.7345	0.7309	0.7283

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0.7255	0.7235	0.7215	0.7186	0.7172	0.7140	0.7117	0.7096
0.7065	0.7047	0.7018	0.7012	0.6992	0.6971	0.6963	0.6939
0.6924	0.6905	0.6883	0.6869	0.6847	0.6841	0.6829	0.6816
0.6803	0.6798	0.6783	0.6772	0.6759	0.6748	0.6742	0.6729
0.6720	0.6712	0.6702	0.6703	0.6693	0.6687	0.6677	0.6674

Camera range= 50 cm

$s_{\min}=1.7500$ $s_{\max}=14.0000$ step size=.1250

0.1514	0.1663	0.1815	0.1975	0.2181	0.2392	0.2650	0.2941
0.3239	0.3512	0.3777	0.3973	0.4117	0.4165	0.4138	0.4038
0.3895	0.3742	0.3606	0.3502	0.3474	0.3480	0.3551	0.3653
0.3778	0.3917	0.4049	0.4177	0.4284	0.4368	0.4431	0.4475
0.4472	0.4476	0.4434	0.4368	0.4288	0.4211	0.4112	0.4063
0.3996	0.3961	0.3943	0.3960	0.3998	0.4038	0.4105	0.4174
0.4238	0.4302	0.4338	0.4378	0.4392	0.4395	0.4392	0.4355
0.4317	0.4281	0.4230	0.4194	0.4162	0.4145	0.4129	0.4126
0.4148	0.4176	0.4211	0.4255	0.4290	0.4339	0.4370	0.4403
0.4427	0.4438	0.4442	0.4441	0.4435	0.4417	0.4391	0.4376
0.4354	0.4342	0.4344	0.4344	0.4349	0.4367	0.4387	0.4410
0.4441	0.4468	0.4497	0.4524	0.4546	0.4558	0.4574	0.4573
0.4586	0.4578	0.4572					