

Grating																
line/in	$d \sin(\theta_i) + d \sin(\theta_o) = n\lambda$															
line/mm	600															
d-spacing	0.00167	mm														
	1.66667	μm														
Hydrogen																
order	color	Accepted	Angle			error (+ -)	Angle - °th order		Meas. λ		-2 : λ	-1 : λ	+1 : λ	+2 : λ	λ Ave	σ
		λ	deg	min	deg. dec.	min	°	sin ()	nm		nm	nm	nm	nm	nm	nm
-2	α	656.3	127	53	127.88	1	-52.38	-0.79	660.093	α	660.093	659.688	659.688	660.093	659.89	0.23
-2	β	486.1	144	23	144.38	1	-35.88	-0.59	488.447	β	488.447	485.895	488.677	489.429	488.11	1.54
-2	γ	434.0	148	43	148.72	1	-31.55	-0.52	436.035	γ	436.035	433.238	436.046	437.274	435.65	1.71
-2	δ	410.2								δ		408.846	413.074		410.96	2.99
-1	α		156	57	156.95	1	-23.32	-0.40	659.688							
-1	β		163	19	163.32	1	-16.95	-0.29	485.895							
-1	γ		165	12	165.20	1	-15.07	-0.26	433.238							
-1	δ		166	4	166.07	1	-14.20	-0.25	408.846							
0	all		180	16	180.27	1	0.00	0.00								
1	δ		194	37	194.62	1	14.35	0.25	413.074							
1	γ		195	26	195.43	1	15.17	0.26	436.046							
1	β		197	19	197.32	1	17.05	0.29	488.677							
1	α		203	35	203.58	1	23.32	0.40	659.688							
2	γ															
2	δ		211	55	211.92	1	31.65	0.52	437.274							
2	β		216	14	216.23	1	35.97	0.59	489.429							
2	α		232	39	232.65	1	52.38	0.79	660.093							
2	α	α Splitting	232	40	232.67	1	52.40	0.79	660.241							
2	α		232	41	232.68	1	52.42	0.79	660.389							
									-0.15							