

v	N	intermediate	ground	ground	PUMP	PROBE	$E[4^3\Sigma^+(v,N)]$	$E[4^3\Sigma^+(v,N)]$	$E[\text{meas.}] -$	$E[4^3\Sigma^+(v,N)]$	$E[\text{meas.}] -$	$E[4^3\Sigma^+(v,N)]$	$E[\text{meas.}] -$	$E[4^3\Sigma^+(v,N)]$	$E[\text{meas.}] -$
		state level	state level	state level	laser	laser	(cm^{-1})	(cm^{-1})	$E[\text{calc.}]$	(cm^{-1})	$E[\text{calc.}]$	(cm^{-1})	$E[\text{calc.}]$	(cm^{-1})	$E[\text{calc.}]$
		$A^1\Sigma^+ \sim b^3\Pi$ (v, J)	$X^1\Sigma^+$ (v, J)	energy (cm^{-1})	frequency (cm^{-1})	frequency (cm^{-1})	measured value	calculated from T_v and B_v values	(cm^{-1}) from T_v and B_v values	calculated from fitting constants	(cm^{-1}) from fitting constants	calculated from RKR curve	(cm^{-1}) from RKR curve	calculated from IPA curve	(cm^{-1}) from IPA curve
0	37	12,38	0,37	194.9907	12934.4448	10940.8578	24070.2933	24070.2864	0.0069	24070.2941	-0.0008	24070.4064	-0.1131	24070.2618	0.0315
0	39	12,38	0,37	194.9907	12934.4448	10950.7633	24080.1988	24080.1912	0.0076	24080.2179	-0.0191	24080.3652	-0.1664	24080.2170	-0.0182
1	37	12,38	0,37	194.9907	12934.4448	11012.9807	24142.4162	24142.4132	0.0030	24142.4965	-0.0803	24142.1912	0.2250	24142.4282	-0.0120
1	39	12,38	0,37	194.9907	12934.4448	11022.7826	24152.2181	24152.2147	0.0034	24152.2499	-0.0318	24151.9489	0.2692	24152.1972	0.0209
2	37	12,38	0,37	194.9907	12934.4448	11083.4793	24212.9148	24212.9089	0.0059	24212.6400	0.2748	24212.6155	0.2993	24212.9132	0.0016
2	37	12,38	0,37	194.9907	12934.4448	11083.4804	24212.9159	24212.9089	0.0070	24212.6400	0.2759	24212.6155	0.3004	24212.9132	0.0027
2	39	12,38	0,37	194.9907	12934.4448	11093.1697	24222.6052	24222.5981	0.0071	24222.3370	0.2682	24222.2797	0.3255	24222.5948	0.0104
3	37	12,38	0,37	194.9907	12934.4448	11152.0157	24281.4512	24281.4513	-0.0001	24281.4651	-0.0139	24281.6336	-0.1824	24281.4171	0.0341
3	39	12,38	0,37	194.9907	12934.4448	11161.5724	24291.0079	24291.0080	-0.0001	24291.0761	-0.0682	24291.2166	-0.2087	24290.9926	0.0153
4	37	12,38	0,37	194.9907	12934.4448	11217.9827	24347.4182	24347.4161	0.0021	24347.9487	-0.5305	24348.0877	-0.6695	24347.3894	0.0288
4	37	12,38	0,37	194.9907	12934.4448	11217.9816	24347.4171	24347.4161	0.0010	24347.9487	-0.5316	24348.0877	-0.6706	24347.3894	0.0277
4	37	12,38	0,37	194.9907	12934.4448	11217.9772	24347.4127	24347.4161	-0.0034	24347.9487	-0.5360	24348.0877	-0.6750	24347.3894	0.0233
4	39	12,38	0,37	194.9907	12934.4448	11227.3678	24356.8033	24356.8034	-0.0001	24357.3495	-0.5462	24357.4888	-0.6855	24356.7807	0.0226
5	37	12,38	0,37	194.9907	12934.4448	11280.1577	24409.5932	24409.5978	-0.0046	24409.6217	-0.0285	24409.5293	0.0639	24409.6222	-0.0290
5	39	12,38	0,37	194.9907	12934.4448	11289.3058	24418.7413	24418.7464	-0.0051	24418.6940	0.0473	24418.5959	0.1454	24418.7159	0.0254
6	37	12,38	0,37	194.9907	12934.4448	11336.0877	24465.5232	24465.5182	0.0050	24464.5283	0.9949	24463.8688	1.6544	24465.6024	-0.0792
6	39	12,38	0,37	194.9907	12934.4448	11344.8376	24474.2731	24474.2679	0.0052	24473.2430	1.0301	24472.5364	1.7367	24474.2956	-0.0225
6	39	12,38	0,37	194.9907	12934.4448	11344.8384	24474.2739	24474.2679	0.0060	24473.2430	1.0309	24472.5364	1.7375	24474.2956	-0.0217
7	37	12,38	0,37	194.9907	12934.4448	11383.4751	24512.9106	24512.9118	-0.0012	24513.1217	-0.2111	24512.3326	0.5780	24512.9827	-0.0721
7	39	12,38	0,37	194.9907	12934.4448	11391.8043	24521.2398	24521.2411	-0.0013	24521.5561	-0.3163	24520.6879	0.5519	24521.2528	-0.0130
8	37	12,38	0,37	194.9907	12934.4448	11427.9352	24557.3707	24557.3724	-0.0017	24558.3655	-0.9948	24558.2259	-0.8552	24557.4082	-0.0375
8	37	12,38	0,37	194.9907	12934.4448	11427.9357	24557.3712	24557.3724	-0.0012	24558.3655	-0.9943	24558.2259	-0.8547	24557.4082	-0.0370
8	37	12,38	0,39	209.5189	12919.9178	11427.9359	24557.3726	24557.3724	0.0002	24558.3655	-0.9929	24558.2259	-0.8533	24557.4082	-0.0356
8	39	11,38	0,37	194.9907	12939.1903	11431.4825	24565.6635	24565.6617	0.0018	24566.6533	-0.9898	24566.4381	-0.7746	24565.6436	0.0199
8	39	11,38	0,37	194.9907	12939.1903	11431.4843	24565.6653	24565.6617	0.0036	24566.6533	-0.9880	24566.4381	-0.7728	24565.6436	0.0217
8	39	11,38	0,37	194.9907	12939.1903	11431.4846	24565.6656	24565.6617	0.0039	24566.6533	-0.9877	24566.4381	-0.7725	24565.6436	0.0220
8	39	11,38	0,37	194.9907	12939.1903	11431.4822	24565.6632	24565.6617	0.0015	24566.6533	-0.9901	24566.4381	-0.7749	24565.6436	0.0196
8	39	11,38	0,37	194.9907	12939.1903	11431.4849	24565.6659	24565.6617	0.0042	24566.6533	-0.9874	24566.4381	-0.7722	24565.6436	0.0223
8	39	12,38	0,37	194.9907	12934.4448	11436.2205	24565.6560	24565.6617	-0.0057	24566.6533	-0.9973	24566.4381	-0.7821	24565.6436	0.0124
8	39	12,38	0,37	194.9907	12934.4448	11436.2228	24565.6583	24565.6617	-0.0034	24566.6533	-0.9950	24566.4381	-0.7798	24565.6436	0.0147
8	39	12,38	0,37	194.9907	12934.4448	11436.2205	24565.6560	24565.6617	-0.0057	24566.6533	-0.9973	24566.4381	-0.7821	24565.6436	0.0124
8	39	12,38	0,37	194.9907	12934.4448	11436.2254	24565.6609	24565.6617	-0.0008	24566.6533	-0.9924	24566.4381	-0.7772	24565.6436	0.0173
8	39	12,38	0,39	209.5189	12919.9178	11436.2223	24565.6590	24565.6617	-0.0027	24566.6533	-0.9943	24566.4381	-0.7791	24565.6436	0.0154
8	39	12,38	0,39	209.5189	12919.9178	11436.2205	24565.6572	24565.6617	-0.0045	24566.6533	-0.9961	24566.4381	-0.7809	24565.6436	0.0136
8	39	12,38	0,39	209.5189	12919.9178	11436.2216	24565.6583	24565.6617	-0.0034	24566.6533	-0.9950	24566.4381	-0.7798	24565.6436	0.0147
8	39	12,38	0,39	209.5189	12919.9178	11436.2230	24565.6597	24565.6617	-0.0020	24566.6533	-0.9936	24566.4381	-0.7784	24565.6436	0.0161
9	37	12,38	0,39	209.5189	12919.9178	11475.0166	24604.4533	24604.4477	0.0056	24603.9185	0.5348	24604.6680	-0.2147	24604.4599	-0.0066
9	39	12,38	0,39	209.5189	12919.9178	11483.3296	24612.7663	24612.7601	0.0062	24612.1764	0.5899	24612.8774	-0.1111	24612.7011	0.0652
10	37	12,38	0,39	209.5189	12919.9178	11523.6275	24653.0642			24651.9574	1.1068	24652.9886	0.0756	24653.0354	0.0289
11	37	12,38	0,39	209.5189	12919.9178	11573.3163	24702.7530	24702.7582	-0.0052	24702.3803	0.3727	24703.1240	-0.3710	24702.7579	-0.0049
11	39	12,38	0,39	209.5189	12919.9178	11581.5927	24711.0294	24711.0351	-0.0057	24710.6732	0.3562	24711.4478	-0.4184	24710.9961	0.0333
13	37	12,38	0,39	209.5189	12919.9178	11675.0236	24804.4603	24804.4554	0.0049	24805.0093	-0.5490	24805.5380	-1.0777	24804.5426	-0.0823
13	39	12,38	0,39	209.5189	12919.9178	11683.2395	24812.6762	24812.6708	0.0054	24813.2310	-0.5548	24813.8360	-1.1598	24812.7380	-0.0618
14	25	17,26	0,25	123.5164	13488.0442	11204.1526	24815.7132	24815.7150	-0.0018	24815.7609	-0.0477	24816.0485	-0.3353	24815.7887	-0.0755

14	27	17,26	0,25	123.5164	13488.0442	11209.8090	24821.3696	24821.3716	-0.0020	24821.4211	-0.0515	24821.7277	-0.3581	24821.4278	-0.0582
15	37	12,38	0,37	194.9907	12934.4448	11778.3040	24907.7395	24907.7350	0.0045	24907.3813	0.3582	24907.4584	0.2811	24907.6421	0.0974
15	39	12,38	0,37	194.9907	12934.4448	11786.4521	24915.8876	24915.8826	0.0050	24915.5101	0.3775	24915.6106	0.2770	24915.7755	0.1121
16	14	15,15	0,14	81.7995	13269.6738	11545.0534	24896.5267	24896.5084	0.0183	24896.2089	0.3178	24896.1124	0.4143	24896.5008	0.0259
16	14	15,15	0,16	87.6831	13263.7902	11545.0557	24896.5290	24896.5084	0.0206	24896.2089	0.3201	24896.1124	0.4166	24896.5008	0.0283
16	16	15,15	0,16	87.6831	13263.7902	11548.3381	24899.8114	24899.7966	0.0148	24899.4985	0.3129	24899.3904	0.4210	24899.7867	0.0247
16	25	17,26	0,25	123.5164	13488.0442	11308.2397	24919.8003	24919.8079	-0.0076	24919.5188	0.2815	24919.3602	0.4401	24919.7929	0.0074
16	25	17,26	0,25	123.5164	13488.0442	11308.2417	24919.8023	24919.8079	-0.0056	24919.5188	0.2835	24919.3602	0.4421	24919.7929	0.0094
16	25	17,26	0,25	123.5164	13488.0442	11308.2417	24919.8023	24919.8079	-0.0056	24919.5188	0.2835	24919.3602	0.4421	24919.7929	0.0094
16	25	17,26	0,25	123.5164	13488.0442	11308.2394	24919.8000	24919.8079	-0.0079	24919.5188	0.2812	24919.3602	0.4398	24919.7929	0.0071
16	25	17,26	0,27	133.5534	13478.0078	11308.2396	24919.8008	24919.8079	-0.0071	24919.5188	0.2820	24919.3602	0.4406	24919.7929	0.0079
16	27	17,26	0,25	123.5164	13488.0442	11313.8382	24925.3988	24925.4084	-0.0096	24925.1218	0.2770	24924.9556	0.4432	24925.3945	0.0043
16	27	17,26	0,25	123.5164	13488.0442	11313.8381	24925.3987	24925.4084	-0.0097	24925.1218	0.2769	24924.9556	0.4431	24925.3945	0.0042
16	27	17,26	0,25	123.5164	13488.0442	11313.8377	24925.3983	24925.4084	-0.0101	24925.1218	0.2765	24924.9556	0.4427	24925.3945	0.0038
16	27	17,26	0,25	123.5164	13488.0442	11313.8327	24925.3933	24925.4084	-0.0151	24925.1218	0.2715	24924.9556	0.4377	24925.3945	-0.0012
16	37	11,38	0,37	194.9907	12939.1903	11825.4474	24959.6284	24959.6444	-0.0160	24959.3733	0.2551	24959.2268	0.4016	24959.6572	-0.0288
16	37	12,38	0,37	194.9907	12934.4448	11830.1853	24959.6208	24959.6444	-0.0236	24959.3733	0.2475	24959.2268	0.3940	24959.6572	-0.0364
16	39	11,38	0,37	194.9907	12939.1903	11833.5661	24967.7471	24967.7289	0.0182	24967.4614	0.2857	24967.3367	0.4104	24967.7521	-0.0050
16	39	11,38	0,37	194.9907	12939.1903	11833.5671	24967.7481	24967.7289	0.0192	24967.4614	0.2867	24967.3367	0.4114	24967.7521	-0.0040
16	39	12,38	0,37	194.9907	12934.4448	11838.3076	24967.7431	24967.7289	0.0142	24967.4614	0.2817	24967.3367	0.4064	24967.7521	-0.0090
16	39	12,38	0,37	194.9907	12934.4448	11838.3043	24967.7398	24967.7289	0.0109	24967.4614	0.2784	24967.3367	0.4031	24967.7521	-0.0123
17	14	15,15	0,16	87.6831	13263.7902	11597.3060	24948.7793	24948.7586	0.0207	24948.8565	-0.0772	24948.8343	-0.0550	24948.8517	-0.0724
17	16	15,15	0,16	87.6831	13263.7902	11600.5736	24952.0469	24952.0270	0.0199	24952.1262	-0.0793	24952.1009	-0.0540	24952.1120	-0.0651
17	25	17,26	0,25	123.5164	13488.0442	11360.3411	24971.9017	24971.9173	-0.0156	24972.0251	-0.1234	24971.9863	-0.0846	24971.9587	-0.0570
17	25	17,26	0,25	123.5164	13488.0442	11360.3418	24971.9024	24971.9173	-0.0149	24972.0251	-0.1227	24971.9863	-0.0839	24971.9587	-0.0563
17	25	17,26	0,25	123.5164	13488.0442	11360.3413	24971.9019	24971.9173	-0.0154	24972.0251	-0.1232	24971.9863	-0.0844	24971.9587	-0.0568
17	27	17,26	0,25	123.5164	13488.0442	11365.9193	24977.4799	24977.4839	-0.0040	24977.5941	-0.1142	24977.5535	-0.0736	24977.5149	-0.0350
17	27	17,26	0,25	123.5164	13488.0442	11365.9187	24977.4793	24977.4839	-0.0046	24977.5941	-0.1148	24977.5535	-0.0742	24977.5149	-0.0356
17	37	11,38	0,37	194.9907	12939.1903	11877.3161	25011.4971	25011.5120	-0.0149	25011.6368	-0.1397	25011.6069	-0.1098	25011.4972	-0.0001
17	37	11,38	0,37	194.9907	12939.1903	11877.3173	25011.4983	25011.5120	-0.0137	25011.6368	-0.1385	25011.6069	-0.1086	25011.4972	0.0011
17	37	11,38	0,37	194.9907	12939.1903	11877.3173	25011.4983	25011.5120	-0.0137	25011.6368	-0.1385	25011.6069	-0.1086	25011.4972	0.0011
17	37	12,38	0,37	194.9907	12934.4448	11882.0583	25011.4938	25011.5120	-0.0182	25011.6368	-0.1430	25011.6069	-0.1131	25011.4972	-0.0034
17	46	18,45	0,46	266.2096	13572.0030	11212.6643	25050.8769	25050.8585	0.0184	25051.0004	-0.1235	25051.0405	-0.1636	25050.8318	0.0451
18	25	17,26	0,25	123.5164	13488.0442	11412.4025	25023.9631	25023.9607	0.0024	25024.2373	-0.2742	25024.4855	-0.5224	25023.8622	0.1009
18	27	17,26	0,25	123.5164	13488.0442	11417.9260	25029.4866	25029.4860	0.0006	25029.7647	-0.2781	25030.0135	-0.5269	25029.3765	0.1101
18	37	11,38	0,37	194.9907	12939.1903	11929.0837	25063.2647	25063.2605	0.0042	25063.5526	-0.2879	25063.7964	-0.5317	25063.1095	0.1552
18	37	11,38	0,37	194.9907	12939.1903	11929.0820	25063.2630	25063.2605	0.0025	25063.5526	-0.2896	25063.7964	-0.5334	25063.1095	0.1535
19	14	15,15	0,16	87.6831	13263.7902	11701.3980	25052.8713	25052.8573	0.0140	25053.0194	-0.1481	25053.5221	-0.6508	25052.8478	0.0235
19	16	15,15	0,16	87.6831	13263.7902	11704.6126	25056.0859	25056.0773	0.0086	25056.2391	-0.1532	25056.7464	-0.6605	25056.0648	0.0211
19	26	15,27	0,26	128.4408	13269.6738	11680.2362	25078.3508	25078.3636	-0.0128	25078.5230	-0.1722	25079.0562	-0.7054	25078.3378	0.0130
19	26	15,27	0,28	138.8539	13259.2607	11680.2331	25078.3477	25078.3636	-0.0159	25078.5230	-0.1753	25079.0562	-0.7085	25078.3378	0.0099
19	44	18,45	0,46	266.2096	13572.0030	11305.9133	25144.1259	25144.1269	-0.0010	25144.2793	-0.1534	25144.8138	-0.6879	25144.1331	-0.0072
19	46	18,45	0,46	266.2096	13572.0030	11315.2277	25153.4403	25153.4346	0.0057	25153.5860	-0.1457	25154.1127	-0.6724	25153.4535	-0.0132
19	46	18,45	0,46	266.2096	13572.0030	11315.2282	25153.4408	25153.4346	0.0062	25153.5860	-0.1452	25154.1127	-0.6719	25153.4535	-0.0127
20	14	15,15	0,14	81.7995	13269.6738	11753.1071	25104.5804	25104.5627	0.0177	25104.3249	0.2555	25104.8786	-0.2982	25104.5628	0.0176
20	14	15,15	0,16	87.6831	13263.7902	11753.1108	25104.5841	25104.5627	0.0214	25104.3249	0.2592	25104.8786	-0.2945	25104.5628	0.0213
20	16	15,15	0,16	87.6831	13263.7902	11756.3036	25107.7769	25107.7579	0.0190	25107.5197	0.2572	25108.0751	-0.2982	25107.7560	0.0209
20	25	17,26	0,25	123.5164	13488.0442	11515.6410	25127.2016	25127.2021	-0.0005	25126.9616	0.2400	25127.5295	-0.3279	25127.1928	0.0088
20	26	15,27	0,26	128.4408	13269.6738	11731.7530	25129.8676	25129.8722	-0.0046	25129.6313	0.2363	25130.2011	-0.3335	25129.8625	0.0051
20	26	15,27	0,26	128.4408	13269.6738	11731.7500	25129.8646	25129.8722	-0.0076	25129.6313	0.2333	25130.2011	-0.3365	25129.8625	0.0021
20	26	15,27	0,28	138.8539	13259.2607	11731.7502	25129.8648	25129.8722	-0.0074	25129.6313	0.2335	25130.2011	-0.3363	25129.8625	0.0023
20	27	17,26	0,25	123.5164	13488.0442	11521.0755	25132.6361	25132.6436	-0.0075	25132.4025	0.2336	25132.9743	-0.3382	25132.6337	0.0024
20	37	11,38	0,37	194.9907	12939.1903	12031.7191	25165.9001	25165.9047	-0.0046	25165.6594	0.2407	25166.2560	-0.3559	25165.9035	-0.0034

20	37	11,38	0,37	194.9907	12939.1903	12031.7185	25165.8995	25165.9047	-0.0052	25165.6594	0.2401	25166.2560	-0.3565	25165.9035	-0.0040
20	37	11,38	0,37	194.9907	12939.1903	12031.7065	25165.8875	25165.9047	-0.0172	25165.6594	0.2281	25166.2560	-0.3685	25165.9035	-0.0160
20	37	11,38	0,37	194.9907	12939.1903	12031.7054	25165.8864	25165.9047	-0.0183	25165.6594	0.2270	25166.2560	-0.3696	25165.9035	-0.0171
20	37	11,38	0,37	194.9907	12939.1903	12031.7174	25165.8984	25165.9047	-0.0063	25165.6594	0.2390	25166.2560	-0.3576	25165.9035	-0.0051
20	46	18,45	0,46	266.2096	13572.0030	11366.2062	25204.4188	25204.3592	0.0596	25204.1092	0.3096	25204.7320	-0.3132	25204.3924	0.0264
21	14	15,15	0,16	87.6831	13263.7902	11804.3254	25155.7987	25155.7967	0.0020	25155.4732	0.3255	25155.7547	0.0440	25155.9097	-0.1110
21	16	15,15	0,16	87.6831	13263.7902	11807.4898	25158.9631	25158.9646	-0.0015	25158.6425	0.3206	25158.9238	0.0393	25159.0750	-0.1119
21	25	17,26	0,25	123.5164	13488.0442	11566.6815	25178.2421	25178.2426	-0.0005	25177.9285	0.3136	25178.2239	0.0182	25178.3430	-0.1009
21	27	17,26	0,25	123.5164	13488.0442	11572.0778	25183.6384	25183.6374	0.0010	25183.3256	0.3128	25183.6294	0.0090	25183.7367	-0.0983
21	27	17,26	0,25	123.5164	13488.0442	11572.0786	25183.6392	25183.6374	0.0018	25183.3256	0.3136	25183.6294	0.0098	25183.7367	-0.0975
22	37	11,38	0,37	194.9907	12939.1903	12132.8648	25267.0458	25267.0458		25266.7927	0.2531	25267.0315	0.0143	25267.0152	0.0306
22	37	11,38	0,37	194.9907	12939.1903	12132.8773	25267.0583	25267.0583		25266.7927	0.2656	25267.0315	0.0268	25267.0152	0.0431
23	37	11,38	0,37	194.9907	12939.1903	12182.7257	25316.9067	25316.9152	-0.0085	25316.7867	0.1200	25316.9944	-0.0877	25316.7229	0.1838
23	37	11,38	0,37	194.9907	12939.1903	12182.7335	25316.9145	25316.9152	-0.0007	25316.7867	0.1278	25316.9944	-0.0799	25316.7229	0.1916
23	39	11,38	0,37	194.9907	12939.1903	12190.3688	25324.5498	25324.5592	-0.0094	25324.4021	0.1477	25324.6493	-0.0995	25324.3596	0.1902
23	39	11,38	0,37	194.9907	12939.1903	12190.3775	25324.5585	25324.5592	-0.0007	25324.4021	0.1564	25324.6493	-0.0908	25324.3596	0.1989
23	44	18,45	0,46	266.2096	13572.0030	11507.1352	25345.3478	25345.3542	-0.0064	25345.1190	0.2288	25345.4857	-0.1379	25345.1432	0.2046
24	37	11,38	0,37	194.9907	12939.1903	12231.3713	25365.5523	25365.5491	0.0032	25365.9841	-0.4318	25366.2574	-0.7051	25365.9980	-0.4457
24	44	18,45	0,46	266.2096	13572.0030	11555.0511	25393.2637	25393.2591	0.0046	25393.9101	-0.6464	25394.2936	-1.0299	25394.1538	-0.8901
25	25	17,26	0,25	123.5164	13488.0442	11765.9224	25377.4830	25377.4813	0.0017	25377.8021	-0.3191	25378.0054	-0.5224	25378.7228	-0.2398
25	27	17,26	0,25	123.5164	13488.0442	11771.0907	25382.6513	25382.6493	0.0020	25382.9338	-0.2825	25383.1458	-0.4945	25382.9020	-0.2507
26	16	15,15	0,14	81.7995	13269.6738	12056.3650	25407.8383	25407.8328	0.0055	25407.5703	0.2680	25407.6835	0.1548	25407.4472	0.3911
26	16	15,15	0,16	87.6831	13263.7902	12056.3619	25407.8352	25407.8328	0.0024	25407.5703	0.2649	25407.6835	0.1517	25407.4472	0.3880
26	16	15,15	0,16	87.6831	13263.7902	12056.3618	25407.8351	25407.8328	0.0023	25407.5703	0.2648	25407.6835	0.1516	25407.4472	0.3879
26	25	17,26	0,25	123.5164	13488.0442	11814.3200	25425.8806	25425.8861	-0.0055	25425.7068	0.1738	25425.8149	0.0657	25425.6549	0.2257
26	25	17,26	0,25	123.5164	13488.0442	11814.3106	25425.8712	25425.8861	-0.0149	25425.7068	0.1644	25425.8149	0.0563	25425.6549	0.2163
26	26	15,27	0,26	128.4408	13269.6738	12030.2500	25428.3646	25428.3647	-0.0001	25428.1969	0.1677	25428.3038	0.0608	25428.1539	0.2107
26	27	17,26	0,25	123.5164	13488.0442	11819.3877	25430.9483	25430.9375	0.0108	25430.7815	0.1668	25430.8870	0.0613	25430.7476	0.2007
26	27	17,26	0,25	123.5164	13488.0442	11819.3776	25430.9382	25430.9375	0.0007	25430.7815	0.1567	25430.8870	0.0512	25430.7476	0.1906
26	28	15,27	0,26	128.4408	13269.6738	12035.5063	25433.6209	25433.6042	0.0167	25433.4605	0.1604	25433.5645	0.0564	25433.4358	0.1851
27	14	15,15	0,16	87.6831	13263.7902	12099.8180	25451.2913	25451.2991	-0.0078	25451.8066	-0.5153	25451.8491	-0.5578	25451.5220	-0.2307
27	16	15,15	0,14	81.7995	13269.6738	12102.7770	25454.2503	25454.2599	-0.0096	25454.7608	-0.5105	25454.7954	-0.5451	25454.4733	-0.2230
27	16	15,15	0,14	81.7995	13269.6738	12102.7790	25454.2523	25454.2599	-0.0076	25454.7608	-0.5085	25454.7954	-0.5431	25454.4733	-0.2210
27	16	15,15	0,16	87.6831	13263.7902	12102.7794	25454.2527	25454.2599	-0.0072	25454.7608	-0.5081	25454.7954	-0.5427	25454.4733	-0.2206
27	16	15,15	0,16	87.6831	13263.7902	12102.7775	25454.2508	25454.2599	-0.0091	25454.7608	-0.5100	25454.7954	-0.5446	25454.4733	-0.2225
27	25	17,26	0,25	123.5164	13488.0442	11860.7189	25472.2795	25472.2754	0.0041	25472.7363	-0.4568	25472.7215	-0.4420	25472.4341	-0.1546
27	25	17,26	0,25	123.5164	13488.0442	11860.7220	25472.2826	25472.2754	0.0072	25472.7363	-0.4537	25472.7215	-0.4389	25472.4341	-0.1515
27	26	15,27	0,26	128.4408	13269.6738	12076.6449	25474.7595	25474.7488	0.0107	25475.2042	-0.4447	25475.1825	-0.4230	25474.9006	-0.1410
27	27	17,26	0,25	123.5164	13488.0442	11865.7668	25477.3274	25477.3162	0.0112	25477.7659	-0.4385	25477.7369	-0.4095	25477.4608	-0.1334
27	27	17,26	0,25	123.5164	13488.0442	11865.7637	25477.3243	25477.3162	0.0081	25477.7659	-0.4416	25477.7369	-0.4126	25477.4608	-0.1365
27	27	17,26	0,25	123.5164	13488.0442	11865.7630	25477.3236	25477.3162	0.0074	25477.7659	-0.4423	25477.7369	-0.4133	25477.4608	-0.1372
27	28	15,27	0,26	128.4408	13269.6738	12081.8727	25479.9873	25479.9773	0.0100	25480.4211	-0.4338	25480.3846	-0.3973	25480.1147	-0.1274
27	37	11,38	0,37	194.9907	12939.1903	12373.9401	25508.1211	25508.1202	0.0009	25508.5011	-0.3800	25508.3809	-0.2598	25508.1957	-0.0745
27	37	11,38	0,37	194.9907	12939.1903	12373.9408	25508.1218	25508.1202	0.0016	25508.5011	-0.3793	25508.3809	-0.2591	25508.1957	-0.0739
27	37	12,38	0,37	194.9907	12934.4448	12378.6762	25508.1117	25508.1202	-0.0085	25508.5011	-0.3894	25508.3809	-0.2692	25508.1957	-0.0840
27	39	12,38	0,37	194.9907	12934.4448	12385.9337	25515.3692	25515.3916	-0.0224	25515.7562	-0.3870	25515.6130	-0.2438	25515.4558	-0.0866
28	25	17,26	0,25	123.5164	13488.0442	11907.2591	25518.8197	25518.8094	0.0103	25518.8578	-0.0381	25518.8617	-0.0420	25518.6598	0.1600
28	25	17,26	0,25	123.5164	13488.0442	11907.2590	25518.8196	25518.8094	0.0102	25518.8578	-0.0382	25518.8617	-0.0421	25518.6598	0.1599
28	27	17,26	0,25	123.5164	13488.0442	11912.2328	25523.7934	25523.7951	-0.0017	25523.8407	-0.0473	25523.8180	-0.0246	25523.6440	0.1494
28	27	17,26	0,25	123.5164	13488.0442	11912.2308	25523.7914	25523.7951	-0.0037	25523.8407	-0.0493	25523.8180	-0.0266	25523.6440	0.1474
28	27	17,26	0,25	123.5164	13488.0442	11912.2302	25523.7908	25523.7951	-0.0043	25523.8407	-0.0499	25523.8180	-0.0272	25523.6440	0.1468
28	37	11,38	0,37	194.9907	12939.1903	12420.0826	25554.2636	25554.2611	0.0025	25554.2898	-0.0262	25554.0974	0.1662	25554.1085	0.1551
28	37	12,38	0,37	194.9907	12934.4448	12424.8207	25554.2562	25554.2611	-0.0049	25554.2898	-0.0336	25554.0974	0.1588	25554.1085	0.1477

28	39	11,38	0,37	194.9907	12939.1903	12427.2759	25561.4569	25561.4524	0.0045	25561.4770	-0.0201	25561.2419	0.2150	25561.2998	0.1571
28	39	12,38	0,37	194.9907	12934.4448	12432.0130	25561.4485	25561.4524	-0.0039	25561.4770	-0.0285	25561.2419	0.2066	25561.2998	0.1487
28	44	18,45	0,46	266.2096	13572.0030	11742.8088	25581.0214	25581.0125	0.0089	25581.0262	-0.0048	25580.6680	0.3534	25580.8572	0.1642
28	44	18,45	0,46	266.2096	13572.0030	11742.8086	25581.0212	25581.0125	0.0087	25581.0262	-0.0050	25580.6680	0.3532	25580.8572	0.1640
29	37	11,38	0,37	194.9907	12939.1903	12464.9341	25599.1151	25599.1250	-0.0099	25598.9729	0.1422	25598.9009	0.2142	25599.1998	-0.0846
29	44	18,45	0,46	266.2096	13572.0030	11787.2403	25625.4529	25625.4574	-0.0045	25625.3673	0.0856	25625.0998	0.3531	25625.4568	-0.0039
29	44	18,45	0,46	266.2096	13572.0030	11787.2382	25625.4508	25625.4574	-0.0066	25625.3673	0.0835	25625.0998	0.3510	25625.4568	-0.0060
29	44	18,45	0,46	266.2096	13572.0030	11787.2533	25625.4659	25625.4574	0.0085	25625.3673	0.0986	25625.0998	0.3661	25625.4568	0.0091
29	44	18,45	0,46	266.2096	13572.0030	11787.2376	25625.4502	25625.4574	-0.0072	25625.3673	0.0829	25625.0998	0.3504	25625.4568	-0.0066
29	44	18,45	0,46	266.2096	13572.0030	11787.2386	25625.4512	25625.4574	-0.0062	25625.3673	0.0839	25625.0998	0.3514	25625.4568	-0.0056
29	46	18,45	0,46	266.2096	13572.0030	11795.5498	25633.7624	25633.7768	-0.0144	25633.7064	0.0560	25633.3722	0.3902	25633.7374	0.0250
29	46	18,45	0,46	266.2096	13572.0030	11795.5482	25633.7608	25633.7768	-0.0160	25633.7064	0.0544	25633.3722	0.3886	25633.7374	0.0234
30	14	15,15	0,14	81.7995	13269.6738	12236.8097	25588.2830	25588.2793	0.0037	25587.9544	0.3286	25588.5165	-0.2335	25588.5371	-0.2541
30	14	15,15	0,16	87.6831	13263.7902	12236.8111	25588.2844	25588.2793	0.0051	25587.9544	0.3300	25588.5165	-0.2321	25588.5371	-0.2527
30	14	15,15	0,16	87.6831	13263.7902	12236.8107	25588.2840	25588.2793	0.0047	25587.9544	0.3296	25588.5165	-0.2325	25588.5371	-0.2531
30	16	15,15	0,14	81.7995	13269.6738	12239.6488	25591.1221	25591.1279	-0.0058	25590.7943	0.3278	25591.3400	-0.2179	25591.3668	-0.2447
30	16	15,15	0,16	87.6831	13263.7902	12239.6482	25591.1215	25591.1279	-0.0064	25590.7943	0.3272	25591.3400	-0.2185	25591.3668	-0.2452
30	44	18,45	0,46	266.2096	13572.0030	11830.7381	25668.9507	25668.9466	0.0041	25668.3728	0.5779	25668.4575	0.4932	25668.4034	0.5473
31	14	15,15	0,14	81.7995	13269.6738	12280.1977	25631.6710	25631.7168	-0.0458	25631.3850	0.2860	25632.1788	-0.5078	25631.6444	0.0266
31	14	15,15	0,16	87.6831	13263.7902	12280.1981	25631.6714	25631.7168	-0.0454	25631.3850	0.2864	25632.1788	-0.5074	25631.6444	0.0270
31	16	15,15	0,14	81.7995	13269.6738	12282.9815	25634.4548	25634.4836	-0.0288	25634.1645	0.2903	25634.9497	-0.4949	25634.4199	0.0349
31	16	15,15	0,14	81.7995	13269.6738	12282.9821	25634.4554	25634.4836	-0.0282	25634.1645	0.2909	25634.9497	-0.4943	25634.4199	0.0355
31	16	15,15	0,16	87.6831	13263.7902	12282.9860	25634.4593	25634.4836	-0.0243	25634.1645	0.2948	25634.9497	-0.4904	25634.4199	0.0394
31	16	15,15	0,16	87.6831	13263.7902	12282.9832	25634.4565	25634.4836	-0.0271	25634.1645	0.2920	25634.9497	-0.4932	25634.4199	0.0366
31	16	15,15	0,16	87.6831	13263.7902	12282.9824	25634.4557	25634.4836	-0.0279	25634.1645	0.2912	25634.9497	-0.4940	25634.4199	0.0358
31	25	17,26	0,25	123.5164	13488.0442	12039.8329	25651.3935	25651.3159	0.0776	25651.0746	0.3189	25651.8071	-0.4136	25651.3044	0.0891
31	27	17,26	0,25	123.5164	13488.0442	12044.5599	25656.1205	25656.0250	0.0955	25655.8054	0.3151	25656.5230	-0.4025	25656.0279	0.0926
31	27	17,26	0,25	123.5164	13488.0442	12044.5605	25656.1211	25656.0250	0.0961	25655.8054	0.3157	25656.5230	-0.4019	25656.0279	0.0932
31	39	12,38	0,37	194.9907	12934.4448	12562.2387	25691.6742	25691.5838	0.0904	25691.5296	0.1446	25692.1270	-0.4528	25691.6999	-0.0257
31	44	18,45	0,46	266.2096	13572.0030	11871.8152	25710.0278	25710.0478	-0.0200	25710.0800	-0.0522	25710.6052	-0.5774	25710.2231	-0.1953
31	46	18,45	0,46	266.2096	13572.0030	11879.7033	25717.9159	25718.0250	-0.1091	25718.0947	-0.1788	25718.5854	-0.6695	25718.2245	-0.3086
32	14	15,15	0,14	81.7995	13269.6738	12322.3442	25673.8175	25673.8187	-0.0012	25673.8034	0.0141	25674.6643	-0.8468	25673.7815	0.0360
32	14	15,15	0,14	81.7995	13269.6738	12322.3452	25673.8185	25673.8187	-0.0002	25673.8034	0.0151	25674.6643	-0.8458	25673.7815	0.0370
32	14	15,15	0,14	81.7995	13269.6738	12322.3423	25673.8156	25673.8187	-0.0031	25673.8034	0.0122	25674.6643	-0.8487	25673.7815	0.0341
32	14	15,15	0,16	87.6831	13263.7902	12322.3415	25673.8148	25673.8187	-0.0039	25673.8034	0.0114	25674.6643	-0.8495	25673.7815	0.0333
32	14	15,15	0,16	87.6831	13263.7902	12322.3434	25673.8167	25673.8187	-0.0020	25673.8034	0.0133	25674.6643	-0.8476	25673.7815	0.0352
32	16	15,15	0,14	81.7995	13269.6738	12325.0735	25676.5468	25676.5439	0.0029	25676.5175	0.0293	25677.3804	-0.8336	25676.5190	0.0278
32	16	15,15	0,14	81.7995	13269.6738	12325.0741	25676.5474	25676.5439	0.0035	25676.5175	0.0299	25677.3804	-0.8330	25676.5190	0.0284
32	16	15,15	0,16	87.6831	13263.7902	12325.0731	25676.5464	25676.5439	0.0025	25676.5175	0.0289	25677.3804	-0.8340	25676.5190	0.0274
32	16	15,15	0,16	87.6831	13263.7902	12325.0702	25676.5435	25676.5439	-0.0004	25676.5175	0.0260	25677.3804	-0.8369	25676.5190	0.0245
32	25	17,26	0,25	123.5164	13488.0442	12081.5694	25693.1300	25693.1230	0.0070	25693.0286	0.1014	25693.9021	-0.7721	25693.1652	-0.0352
32	25	17,26	0,25	123.5164	13488.0442	12081.5675	25693.1281	25693.1230	0.0051	25693.0286	0.0995	25693.9021	-0.7740	25693.1652	-0.0371
32	25	17,26	0,27	133.5534	13478.0078	12081.5666	25693.1278	25693.1230	0.0048	25693.0286	0.0992	25693.9021	-0.7743	25693.1652	-0.0374
32	27	17,26	0,25	123.5164	13488.0442	12086.1970	25697.7576	25697.7610	-0.0034	25697.6476	0.1100	25698.5235	-0.7659	25697.8191	-0.0614
32	27	17,26	0,25	123.5164	13488.0442	12086.1984	25697.7590	25697.7610	-0.0020	25697.6476	0.1114	25698.5235	-0.7645	25697.8191	-0.0601
32	27	17,26	0,25	123.5164	13488.0442	12086.1920	25697.7526	25697.7610	-0.0084	25697.6476	0.1050	25698.5235	-0.7709	25697.8191	-0.0664
33	14	15,15	0,16	87.6831	13263.7902	12363.4751	25714.9484	25714.9487	-0.0003	25715.3450	-0.3966	25715.9132	-0.9648	25714.7829	0.1655
33	16	15,15	0,16	87.6831	13263.7902	12366.1175	25717.5908	25717.5902	0.0006	25717.9901	-0.3993	25718.5733	-0.9825	25717.4549	0.1359
33	25	17,26	0,25	123.5164	13488.0442	12122.0990	25733.6596	25733.6590	0.0006	25734.0810	-0.4214	25734.7513	-1.0917	25733.6791	-0.0195
33	27	17,26	0,25	123.5164	13488.0442	12126.5888	25738.1494	25738.1539	-0.0045	25738.5821	-0.4327	25739.2756	-1.1262	25738.2083	-0.0589
33	27	17,26	0,25	123.5164	13488.0442	12126.5985	25738.1591	25738.1539	0.0052	25738.5821	-0.4230	25739.2756	-1.1165	25738.2083	-0.0492