

Electronic Supplementary Information

Ab-initio calculations on the ground and excited electronic states of neutral and charged palladium monoxide, PdO^{0,+,-}

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Table S1. Bond length r_e (Å), harmonic vibrational frequencies ω_e (cm^{-1}), $\Delta G_{1/2}$ (cm^{-1}) value, and excitation energy T_e (eV) for the lowest electronic spin-orbit states of $^{106}\text{Pd}^{16}\text{O}$ at MRCI, MRCI+Q, C-MRCI, and C-MRCI+Q.

State	MRCI				MRCI+Q				C-MRCI				C-MRCI+Q			
	r_e	ω_e	$\Delta G_{1/2}$	T_e	r_e	ω_e	$\Delta G_{1/2}$	T_e	r_e	ω_e	$\Delta G_{1/2}$	T_e	r_e	ω_e	$\Delta G_{1/2}$	T_e
$X^3\Sigma_0^+$	1.838	620	610	0.000	1.824	654	643	0.000	1.833	623	613	0.000	1.815	671	658	0.000
$X^3\Sigma_1^-$	1.836	625	614	0.011	1.823	658	647	0.012	1.831	629	618	0.010	1.814	675	662	0.009
$1^3\Pi_2$	1.841	590	582	0.089	1.824	631	621	0.100	1.840	582	575	0.108	1.819	635	624	0.129
$1^3\Pi_0^-$	1.848	583	576	0.164	1.830	623	614	0.176	1.847	576	569	0.187	1.825	627	617	0.211
$1^3\Pi_1$	1.838	609	600	0.202	1.823	644	633	0.207	1.837	601	592	0.217	1.817	648	637	0.231
$1^3\Pi_0^+$	1.839	615	606	0.224	1.826	642	631	0.227	1.838	607	599	0.236	1.821	653	642	0.245
$1^1\Pi_1$	1.853	565	559	0.439	1.833	598	589	0.471	1.853	561	556	0.443	1.829	605	597	0.482
$1^1\Delta_2$	1.869	569	562	0.635	1.853	584	575	0.681	1.863	574	566	0.595	1.841	607	597	0.635
$1^1\Sigma_0^+$	1.835	526	523	0.829	1.796	785	739	0.760	1.881	494	494	0.853	1.825	520	517	0.879
$2^1\Sigma_0^+$	1.868	691	680	1.031	1.889	686	677	0.976	1.841	711	698	1.077	1.845	731	716	1.008

Table S2. Potential energy data points for Figure 1 (kcal/mol).

Distance (Å)	$X^3\Sigma^-$	$1^3\Pi$	$1^3\Phi$	$2^3\Pi$	$3^3\Pi$	$1^3\Sigma^+$
5.00	0.00	0.00	11.19	11.22	11.28	11.30
4.50	-0.05	-0.04	11.07	11.13	11.18	11.20
4.00	-0.17	-0.16	10.79	10.86	10.92	10.96
3.50	-0.48	-0.51	10.02	10.09	10.18	10.26
3.40	-0.61	-0.67	9.73	9.81	9.90	10.00
3.30	-0.78	-0.89	9.36	9.45	9.54	9.65
3.20	-1.04	-1.22	8.90	8.99	9.08	9.21
3.10	-1.44	-1.73	8.30	8.40	8.49	8.64
3.00	-2.08	-2.50	7.54	7.65	7.74	7.92
2.90	-3.10	-3.69	6.56	6.69	6.78	7.00
2.80	-4.70	-5.43	5.33	5.48	5.59	5.85
2.70	-7.06	-7.86	3.80	3.97	4.13	4.44
2.60	-10.32	-11.06	1.92	2.12	2.38	2.75
2.50	-14.51	-15.09	-0.33	-0.10	0.34	0.79
2.35	-21.02	-23.84	-11.87	-11.54	-12.24	-11.67
2.20	-31.45	-33.82	-18.72	-18.20	-17.43	-16.68
2.12	-36.96	-38.89	-21.60	-20.92	-18.81	-17.95
2.07	-40.24	-41.81	-22.93	-22.11	-18.89	-17.94
2.02	-43.28	-44.46	-23.74	-22.77	-18.16	-17.12
1.97	-45.97	-46.71	-23.92	-22.76	-16.42	-15.27
1.92	-48.15	-48.44	-23.30	-21.94	-13.41	-12.16
1.85	-49.97	-49.65	-20.70	-19.01	-6.54	-5.08
1.82	-50.15	-49.59	-18.82	-16.98	-2.47	-0.87
1.77	-49.40	-48.51	-14.43	-12.31	1.93	5.88
1.70	-45.18	-43.70	-4.67	-2.11	8.31	13.67
1.63	-36.29	-34.50	10.17	13.10	18.52	26.31
1.55	-18.04	-16.02	36.05	39.43	39.13	50.42
1.48	8.69	11.11	69.98	73.63	68.93	82.35
1.40	55.25	58.95	127.05	130.55	122.21	136.59
1.30	150.81	158.47	239.52	242.04	230.49	245.79
1.20	310.80	325.68	419.96	422.26	406.46	422.23

Table S2. (continued)

Distance (Å)	1 $^1\Pi$	1 $^1\Delta$	1 $^1\Sigma^+$	2 $^1\Sigma^+$	2 $^1\Pi$	1 $^1\Phi$	1 $^1\Sigma^-$
5.00	10.88	10.96	10.98	11.33	10.95	10.91	10.97
4.50	10.70	10.79	10.82	11.38	10.77	10.75	10.80
4.00	10.20	10.31	10.35	11.56	10.28	10.26	10.32
3.50	8.75	8.90	8.99	12.18	8.88	8.81	8.90
3.00	3.56	4.38	4.64	14.35	4.57	4.65	4.39
2.80	-1.42	0.07	0.56	16.54	0.74	0.84	0.38
2.70	-5.17	-3.23	-2.53	18.33	-2.08	-1.98	-2.57
2.60	-9.96	-7.52	-6.52	20.78	-5.63	-5.51	-6.24
2.50	-15.61	-12.66	-11.25	12.04	-9.71	-9.57	-10.43
2.35	-24.82	-21.19	-18.95	-2.49	-16.02	-15.83	-16.65
2.20	-34.09	-29.93	-26.60	-15.82	-21.56	-21.27	-21.52
2.12	-38.64	-33.83	-30.01	-24.70	-23.09	-22.67	-22.84
2.07	-40.97	-36.06	-31.90	-27.94	-23.85	-23.34	-22.81
2.02	-43.08	-38.06	-33.65	-30.71	-24.13	-23.52	-22.07
1.97	-44.82	-39.68	-35.35	-32.70	-23.74	-23.01	-20.38
1.92	-46.07	-40.76	-36.95	-33.62	-22.49	-21.60	-17.48
1.85	-46.64	-41.00	-38.25	-33.12	-18.85	-17.68	-10.81
1.82	-46.33	-40.50	-38.22	-32.21	-16.45	-15.13	-6.78
1.77	-44.83	-38.61	-37.05	-29.58	-11.07	-9.45	1.81
1.70	-39.13	-32.87	-30.72	-22.45	0.54	2.72	16.55
1.63	-29.72	-22.76	-20.60	-11.13	17.13	20.02	26.30
1.55	-10.78	-3.17	0.04	9.89	45.24	49.14	46.47
1.50	7.35	15.06	19.66	29.15	69.44	74.12	66.15
1.45	32.04	39.40	45.93	54.86	100.32	105.93	93.04
1.40	65.16	71.51	80.20	89.22	139.64	145.29	128.95
1.35	109.01	113.48	123.94	135.09	189.55	195.15	176.04
1.30	166.50	168.00	179.59	195.51	252.48	258.57	236.79
1.25	240.62	238.22	250.37	273.10	331.52	339.22	314.49
1.20	335.69	328.33	340.69	371.84	429.77	441.32	412.76

Table S2. (continued)

Distance (Å)	1 $^5\Sigma^-$
5.00	9.26
4.50	-2.08
4.00	9.12
3.50	9.04
3.20	8.96
3.00	8.83
2.80	8.50
2.50	6.83
2.35	4.51
2.20	-0.07
2.12	-3.75
2.07	-6.52
2.02	-9.67
1.97	-13.22
1.92	-17.15
1.85	-20.11
1.82	-20.54
1.77	-20.24
1.70	-16.74
1.63	-8.03
1.55	11.35
1.50	30.55
1.45	56.96
1.40	92.41
1.35	139.10
1.30	199.62
1.25	277.04
1.20	375.01

Table S3. Potential energy data points for Figure 3 (kcal/mol).

Distance (Å)	$X^3\Sigma_0^-$	$X^3\Sigma_1^-$	$1^3\Pi_2$	$1^3\Pi_0^-$	$1^3\Pi_1$	$1^3\Pi_0^+$	$1^1\Pi_1$	$1^1\Delta_2$	$1^1\Sigma_0^+$	$2^1\Sigma_0^+$
1.40	105.17	105.31	107.68	110.94	109.83	111.29	119.15	122.97	130.59	139.47
1.42	91.29	91.40	93.63	96.84	95.85	97.24	104.78	109.10	116.12	124.70
1.45	73.18	73.25	75.38	78.49	77.68	78.96	86.09	90.96	97.09	105.52
1.47	62.73	62.78	64.89	67.93	67.23	68.45	75.34	80.46	86.03	94.49
1.50	49.18	49.23	51.36	54.31	53.75	54.88	61.46	66.83	71.65	80.21
1.52	41.44	41.48	43.66	46.54	46.06	47.13	53.55	59.00	63.41	72.01
1.55	31.51	31.56	33.83	36.61	36.24	37.23	43.45	48.91	52.86	61.44
1.58	23.37	23.43	25.82	28.50	28.23	29.13	35.20	40.58	44.26	52.67
1.63	13.16	13.25	15.84	18.35	18.22	18.99	24.90	29.98	33.57	41.36
1.67	7.50	7.62	10.34	12.72	12.69	13.37	19.18	23.95	27.73	34.75
1.70	4.46	4.60	7.40	9.67	9.73	10.33	16.09	20.61	24.65	30.97
1.73	2.30	2.46	5.30	7.47	7.63	8.16	13.86	18.12	22.51	28.03
1.77	0.59	0.77	3.63	5.66	5.95	6.38	12.00	15.96	20.89	25.25
1.82	0.00	0.21	2.98	4.86	5.32	5.67	11.13	14.74	20.28	23.45
1.85	0.30	0.54	3.20	5.00	5.57	5.88	11.21	14.66	20.36	23.25
1.87	0.71	0.97	3.54	5.29	5.94	6.24	11.45	14.81	20.53	23.44
1.92	2.32	2.62	4.93	6.57	7.42	7.70	12.58	15.78	21.33	24.81
1.97	4.52	4.86	6.87	8.42	9.46	9.75	14.26	17.38	22.60	27.10
2.00	6.03	6.40	8.23	9.74	10.89	11.20	15.47	18.56	23.55	28.79
2.02	8.79	9.19	10.75	12.22	13.52	13.87	17.76	20.81	25.40	31.98
2.07	11.76	12.21	13.52	14.95	16.38	16.79	20.34	23.33	27.55	35.49
2.12	14.88	15.36	16.47	17.88	19.40	19.88	23.15	26.04	29.91	39.22

Table S4. Potential energy data points for Figure 4 (kcal/mol).

Distance (Å)	X²Π	1⁴Σ⁻	1⁴Π	1²Σ⁺	1²Δ	2²Π	X³Σ⁻
1.20	374.49	403.79	408.21	401.31	404.58	411.72	385.51
1.30	209.74	238.47	239.50	235.57	240.58	246.94	225.43
1.40	108.69	134.34	135.86	129.27	139.11	144.52	130.59
1.48	59.15	80.28	83.10	75.80	87.35	92.53	83.00
1.55	31.76	48.73	52.23	45.67	57.17	62.13	55.93
1.63	13.15	26.08	29.65	24.72	35.24	39.68	36.70
1.70	4.50	14.74	17.90	14.60	23.99	27.71	27.21
1.77	0.67	8.95	11.39	9.72	17.94	20.69	22.58
1.82	0.00	7.22	9.02	8.53	15.90	17.83	21.44
1.85	0.21	6.88	8.28	8.49	15.35	16.75	21.41
1.92	1.96	7.51	7.98	9.84	15.49	15.59	22.81
1.97	3.96	8.77	8.62	11.61	16.43	15.60	24.75
2.02	6.18	10.33	9.59	13.47	17.91	16.00	27.24
2.07	8.93	12.29	11.02	15.92	19.61	16.76	30.13
2.12	12.17	14.41	12.69	18.52	21.52	17.45	33.30
2.20	17.59	17.97	15.65	22.93	25.45	18.86	38.75
2.35	26.17	24.69	22.19	30.26	30.26	25.40	49.39
2.50	33.28	30.95	27.93	35.16	35.16	30.59	59.81

Table S5. Potential energy data points for Figure 5 (kcal/mol).

Distance (Å)	$X^4\Sigma^-$	$1^2\Pi$	$1^2\Sigma^-$	$1^2\Delta$	$2^2\Pi$	$1^4\Delta$	$1^4\Pi$	$2^2\Delta$	$1^2\Sigma^+$
7.00	0.05	0.05	-0.01	0.00	0.37	0.00	0.05	0.43	0.43
6.00	-0.16	-0.16	-0.22	-0.20	0.40	-0.19	-0.16	0.45	0.46
5.00	-0.60	-0.61	-0.69	-0.61	0.42	-0.61	-0.60	0.47	0.49
4.70	-0.84	-0.84	-0.93	-0.83	0.42	-0.82	-0.84	0.47	0.49
4.50	-1.04	-1.04	-1.14	-1.01	0.41	-1.01	-1.04	0.46	0.49
4.40	-1.15	-1.16	-1.27	-1.12	0.41	-1.11	-1.15	0.46	0.49
4.30	-1.29	-1.29	-1.41	-1.24	0.40	-1.23	-1.29	0.45	0.49
4.20	-1.43	-1.44	-1.57	-1.37	0.39	-1.37	-1.43	0.44	0.48
4.10	-1.60	-1.60	-1.75	-1.53	0.38	-1.52	-1.60	0.43	0.47
4.00	-1.78	-1.79	-1.96	-1.70	0.36	-1.69	-1.78	0.41	0.46
3.95	-1.89	-1.89	-2.07	-1.79	0.35	-1.78	-1.89	0.40	0.46
3.90	-2.00	-2.00	-2.19	-1.89	0.34	-1.88	-2.00	0.39	0.45
3.85	-2.11	-2.12	-2.32	-1.99	0.33	-1.99	-2.11	0.37	0.44
3.80	-2.23	-2.24	-2.46	-2.11	0.31	-2.10	-2.23	0.36	0.43
3.75	-2.36	-2.37	-2.61	-2.23	0.29	-2.22	-2.36	0.34	0.42
3.70	-2.50	-2.51	-2.77	-2.35	0.26	-2.34	-2.50	0.32	0.41
3.65	-2.65	-2.66	-2.94	-2.49	0.23	-2.48	-2.65	0.31	0.40
3.60	-2.81	-2.82	-3.12	-2.64	0.20	-2.62	-2.81	0.28	0.38
3.55	-2.98	-2.99	-3.32	-2.79	0.16	-2.78	-2.98	0.26	0.37
3.50	-3.15	-3.17	-3.53	-2.95	0.11	-2.94	-3.15	0.24	0.35
3.45	-3.34	-3.36	-3.76	-3.13	0.06	-3.11	-3.34	0.21	0.33
3.40	-3.54	-3.57	-4.00	-3.32	0.00	-3.30	-3.54	0.18	0.31
3.35	-3.75	-3.79	-4.26	-3.51	-0.07	-3.49	-3.75	0.15	0.29
3.30	-3.98	-4.02	-4.54	-3.72	-0.14	-3.70	-3.98	0.12	0.27
3.25	-4.21	-4.26	-4.84	-3.95	-0.23	-3.92	-4.21	0.08	0.25
3.20	-4.46	-4.52	-5.16	-4.18	-0.34	-4.16	-4.46	0.05	0.23
3.15	-4.72	-4.79	-5.51	-4.43	-0.46	-4.40	-4.72	0.01	0.21
3.10	-4.99	-5.07	-5.88	-4.69	-0.59	-4.66	-4.99	-0.03	0.19
3.05	-5.27	-5.37	-6.27	-4.96	-0.75	-4.93	-5.27	-0.06	0.17
3.00	-5.55	-5.68	-6.69	-5.25	-0.92	-5.22	-5.55	-0.10	0.16
2.95	-5.85	-6.00	-7.14	-5.54	-1.13	-5.51	-5.85	-0.13	0.15
2.90	-6.14	-6.33	-7.61	-5.85	-1.36	-5.82	-6.14	-0.15	0.14
2.85	-6.44	-6.66	-8.11	-6.16	-1.62	-6.13	-6.44	-0.17	0.14
2.80	-6.73	-7.00	-8.64	-6.47	-1.92	-6.45	-6.73	-0.18	0.15
2.75	-7.01	-7.35	-9.19	-6.78	-2.27	-6.77	-7.01	-0.18	0.17
2.70	-7.27	-7.68	-9.77	-7.09	-2.66	-7.09	-7.27	-0.18	0.21
2.65	-7.50	-8.01	-10.37	-7.38	-3.11	-7.40	-7.50	-0.19	0.26
2.60	-7.69	-8.33	-10.99	-7.66	-3.62	-7.71	-7.69	-0.20	0.34
2.55	-7.82	-8.63	-11.63	-7.91	-4.20	-8.00	-7.82	-0.20	0.43
2.50	-7.89	-8.90	-12.29	-8.12	-4.87	-8.27	-7.89	-0.21	0.55
2.45	-7.86	-9.14	-12.98	-8.29	-5.62	-8.51	-7.86	-0.23	0.69
2.40	-7.74	-9.37	-13.69	-8.40	-6.48	-8.74	-7.74	-0.28	0.84

2.35	-7.48	-9.60	-14.43	-8.45	-7.42	-8.94	-7.48	-0.39	1.00
2.30	-7.08	-9.92	-15.24	-8.41	-8.39	-9.12	-7.08	-0.60	1.16
2.25	-6.49	-10.61	-16.12	-8.25	-9.10	-9.26	-6.49	-0.97	1.30
2.15	-4.22	-13.28	-17.73	-7.10	-9.23	-8.91	-4.22	-2.37	1.39
2.10	-2.44	-15.03	-18.48	-6.09	-8.93	-8.43	-2.44	-3.54	1.16
2.05	-0.49	-16.95	-19.27	-5.47	-8.56	-7.74	-0.49	-4.32	0.69
2.00	-0.14	-18.95	-20.10	-7.12	-8.13	-6.76	-0.14	-2.67	-0.08
1.95	0.30	-20.95	-20.92	-9.11	-7.65	-5.38	0.30	-0.28	-1.09
1.90	1.13	-22.80	-21.62	-11.01	-7.05	-3.43	1.13	2.85	-2.18
1.85	2.62	-24.28	-22.00	-12.51	-6.14	-0.66	2.62	6.93	-3.01
1.80	5.14	-25.11	-21.77	-13.22	-4.57	3.27	5.14	12.26	-3.16
1.75	9.19	-24.88	-20.53	-12.67	-1.89	8.84	9.19	19.24	-2.10
1.70	15.30	-23.12	-17.80	-10.35	2.46	16.57	15.30	28.38	0.70
1.65	24.12	-19.23	-12.96	-5.68	9.15	27.13	24.12	40.32	5.85
1.60	36.37	-12.41	-5.27	2.09	18.94	41.24	36.37	55.78	14.08
1.55	52.86	-1.91	6.23	13.72	32.89	60.02	52.86	75.92	26.19
1.50	74.96	13.79	22.51	30.32	51.79	84.31	74.96	101.43	43.29
1.40	141.36	66.65	75.49	83.90	110.20	155.35	141.36	162.96	97.85
1.30	252.68	163.90	170.51	178.68	208.18	262.03	252.68	273.87	193.60

Table S6. Potential energy data points for Figure 6 (kcal/mol).

Distance (Å)	$X^4\Sigma^-_{1/2}$	$X^4\Sigma^-_{3/2}$	$1^2\Pi_{3/2}$	$1^2\Pi_{1/2}$	$1^2\Sigma^-_{1/2}$	$1^2\Delta_{3/2}$	$1^2\Delta_{5/2}$
7.00	0.00	0.00	0.01	0.00	0.01	0.01	0.04
6.00	-0.21	-0.21	-0.19	-0.21	-0.19	-0.19	-0.17
5.00	-0.67	-0.67	-0.62	-0.67	-0.62	-0.62	-0.59
4.70	-0.91	-0.91	-0.85	-0.91	-0.85	-0.85	-0.81
4.50	-1.12	-1.12	-1.05	-1.12	-1.05	-1.05	-1.00
4.40	-1.25	-1.25	-1.16	-1.25	-1.16	-1.16	-1.11
4.30	-1.39	-1.39	-1.29	-1.38	-1.29	-1.29	-1.23
4.20	-1.54	-1.54	-1.44	-1.54	-1.44	-1.44	-1.36
4.10	-1.72	-1.72	-1.60	-1.71	-1.60	-1.60	-1.51
4.00	-1.92	-1.92	-1.79	-1.91	-1.79	-1.79	-1.69
3.95	-2.04	-2.04	-1.89	-2.02	-1.89	-1.89	-1.78
3.90	-2.16	-2.15	-2.00	-2.14	-1.99	-1.99	-1.88
3.85	-2.28	-2.28	-2.11	-2.26	-2.11	-2.11	-1.99
3.80	-2.42	-2.42	-2.23	-2.40	-2.23	-2.23	-2.10
3.75	-2.57	-2.57	-2.36	-2.54	-2.36	-2.36	-2.22
3.70	-2.72	-2.72	-2.50	-2.69	-2.50	-2.49	-2.35
3.65	-2.89	-2.89	-2.65	-2.85	-2.64	-2.64	-2.48
3.60	-3.08	-3.07	-2.80	-3.03	-2.80	-2.80	-2.63
3.55	-3.27	-3.27	-2.97	-3.21	-2.96	-2.96	-2.78
3.50	-3.48	-3.48	-3.14	-3.41	-3.14	-3.14	-2.95
3.45	-3.71	-3.70	-3.33	-3.63	-3.33	-3.32	-3.12
3.40	-3.95	-3.95	-3.53	-3.86	-3.53	-3.52	-3.31
3.35	-4.21	-4.21	-3.74	-4.10	-3.74	-3.73	-3.51
3.30	-4.49	-4.49	-3.97	-4.36	-3.96	-3.95	-3.72
3.25	-4.80	-4.79	-4.21	-4.64	-4.20	-4.18	-3.94
3.20	-5.12	-5.11	-4.46	-4.94	-4.44	-4.43	-4.18
3.15	-5.47	-5.46	-4.72	-5.25	-4.70	-4.69	-4.42
3.10	-5.85	-5.84	-5.00	-5.59	-4.98	-4.96	-4.68
3.05	-6.25	-6.24	-5.29	-5.94	-5.26	-5.24	-4.96
3.00	-6.69	-6.67	-5.58	-6.32	-5.55	-5.52	-5.24
2.95	-7.15	-7.13	-5.89	-6.72	-5.86	-5.82	-5.54
2.90	-7.65	-7.63	-6.21	-7.13	-6.16	-6.12	-5.84
2.85	-8.19	-8.16	-6.53	-7.57	-6.47	-6.41	-6.16
2.80	-8.77	-8.73	-6.86	-8.02	-6.78	-6.71	-6.47
2.75	-9.39	-9.35	-7.18	-8.50	-7.09	-6.99	-6.79
2.70	-10.05	-10.01	-7.49	-8.98	-7.38	-7.26	-7.10
2.65	-10.77	-10.72	-7.79	-9.48	-7.65	-7.51	-7.41
2.60	-11.55	-11.49	-8.07	-9.99	-7.90	-7.72	-7.72
2.55	-12.40	-12.33	-8.33	-10.51	-8.11	-8.01	-7.98
2.50	-13.33	-13.25	-8.55	-11.04	-8.28	-8.28	-8.23
2.45	-14.36	-14.27	-8.73	-11.58	-8.53	-8.47	-8.42
2.40	-15.52	-15.42	-8.88	-12.13	-8.75	-8.66	-8.57

2.35	-16.83	-16.73	-9.00	-12.71	-8.95	-8.82	-8.68
2.30	-18.34	-18.22	-9.16	-13.34	-9.10	-8.94	-8.76
2.25	-20.08	-19.95	-9.31	-14.04	-9.27	-9.00	-8.83
2.15	-23.81	-23.66	-10.67	-15.30	-10.65	-8.96	-8.47
2.10	-25.79	-25.63	-12.24	-15.88	-12.17	-8.49	-7.89
2.05	-27.88	-27.70	-14.03	-16.51	-13.90	-7.82	-7.23
2.00	-29.99	-29.79	-15.95	-17.21	-15.75	-6.86	-6.65
1.95	-32.01	-31.80	-17.90	-17.96	-17.56	-7.05	-6.01
1.90	-33.77	-33.54	-19.72	-19.38	-18.45	-8.52	-7.60
1.85	-35.04	-34.78	-21.20	-20.73	-18.77	-9.79	-9.05
1.80	-35.49	-35.21	-22.04	-21.41	-18.48	-10.33	-9.73
1.75	-34.72	-34.41	-21.83	-21.02	-17.20	-9.65	-9.17
1.70	-32.27	-31.92	-20.08	-19.08	-14.41	-7.22	-6.83
1.65	-27.55	-27.16	-16.18	-14.99	-9.53	-2.45	-2.14
1.60	-19.82	-19.38	-9.34	-7.94	-1.77	5.38	5.67
1.55	-8.20	-7.71	1.21	2.79	9.80	17.12	17.37
1.50	8.36	8.88	16.97	18.74	26.17	33.84	34.07
1.40	62.07	62.50	69.77	72.13	79.40	87.72	87.93
1.30	156.62	156.64	166.86	170.02	174.84	182.92	183.09
1.20	313.96	314.17	333.22	334.04	336.96	340.87	341.05
1.10	570.62	570.95	595.33	598.74	598.92	603.20	605.37
1.00	990.93	991.32	1016.95	1020.29	1020.62	1020.96	1023.38
