Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

Table S1: M05-2X+D3/6-311++G (d,p) calculated total energies (E, in Hartree) and optimized geometrical parameters in Cartesian coordinates of Triazole.

(1A)				(2A)			
E= -242.259244808				E= -242.289409676			
c	-1.069341	0.420654	0.000013	c	1.116069	0.022761	0.000018
c	0.102392	1.129981	0.000025	c	-0.864868	0.684941	-0.000039
n	0.509067	-1.050010	-0.000022	n	-0.838001	-0.658415	0.000029
h	-2.084371	0.773062	0.000026	h	-1.601421	-1.311354	0.000112
h	0.328209	2.179829	0.000051	h	2.192135	0.029682	-0.000020
h	2.048868	0.260990	-0.000011	h	-1.773817	1.262121	-0.000073
n	1.048499	0.166928	-0.000007	n	0.429982	-1.098650	-0.000041
n	-0.770569	-0.905160	-0.000013	n	0.361719	1.153256	0.000027
(1B)				(2B)			
E= -242.267498278				E= -242.277965735			
c	-0.904897	-0.702356	0.000090	c	-1.077601	0.247455	-0.000007
c	-0.906651	0.700619	-0.000032	c	1.076262	0.252098	0.000028
n	1.044268	0.001360	0.000060	n	-0.681654	-0.990631	0.000028
h	2.049138	0.002283	0.000085	h	-2.099495	0.583631	-0.000009
h	-1.721919	-1.400921	0.000090	h	-0.004268	2.088487	-0.000025
h	-1.724885	1.397735	-0.000096	h	2.097221	0.590900	0.000034
n	0.352884	1.117479	-0.000011	n	0.685870	-0.988040	-0.000038
n	0.355270	-1.117221	-0.000110	n	-0.002134	1.084337	-0.000008

Table S2a: M05-2X+D3/6-311++G (d,p) calculated total energies (E, in Hartree) and optimized geometrical parameters in Cartesian coordinates of Triazole-CO_2.

$(1A\text{-}CO_2)_a$				$(1A\text{-}CO_2)_b$			
E= -430.885972693				E= -430.884583762			
c	-2.541644	-0.501962	0.000016	c	-0.955437	0.985253	0.000047
c	-2.214077	0.829391	0.000009	c	-2.309499	0.781360	0.000000
n	-0.389445	-0.420364	-0.000043	n	-1.235017	-1.158220	-0.000019
h	-3.507684	-0.971651	0.000036	h	-0.390069	1.899141	0.000060
h	-2.797170	1.731288	0.000025	h	-3.154378	1.444230	0.000000
h	-0.213169	1.588387	0.000008	h	-3.254701	-1.130756	0.000154
n	-0.866090	0.821218	0.000004	n	-2.423532	-0.564850	0.000083
n	-1.393996	-1.226971	-0.000005	n	-0.343843	-0.228161	-0.000063
o	2.065189	1.161636	-0.000008	o	2.252249	1.172361	0.000079
c	2.419914	0.057159	0.000002	c	2.450764	0.032294	0.000176
o	2.819759	-1.020727	0.000018	o	2.710368	-1.090790	-0.000274
$(1A\text{-}CO_2)_c$				$(1A\text{-}CO_2)_d$			
E= -430.883326997				E= -430.883161314			
c	-1.636519	1.143716	-0.049681	c	1.538426	-0.619174	-0.931533
c	-2.616985	0.187785	-0.010603	c	2.117420	0.484367	-0.362557
n	-0.613203	-0.754037	0.038692	n	0.592087	-0.377532	0.992473
h	-1.720860	2.213567	-0.097942	h	1.723418	-1.077596	-1.885319
h	-3.689847	0.232315	-0.016783	h	2.878772	1.167682	-0.688554
h	-2.266677	-1.913856	0.084784	h	1.615784	1.271863	1.553268
n	-1.923924	-0.969659	0.043616	n	1.493199	0.585014	0.829221
n	-0.430971	0.519784	-0.017326	n	0.612910	-1.111126	-0.068242
o	2.468972	0.065003	1.149346	o	-2.740915	-0.628261	0.259920
c	2.435604	-0.001064	-0.002936	c	-2.128406	0.255161	-0.155576
o	2.451211	-0.075911	-1.155047	o	-1.542833	1.158441	-0.579366
$(1A\text{-}CO_2)_e$				$(1A\text{-}CO_2)_f$			
E= -430.882688388				E= -430.881911963			
c	-0.909233	-1.103047	0.526959	c	-2.662540	0.922832	-0.016234
c	-1.569809	-0.015240	1.034689	c	-1.292725	0.909475	0.018205
n	-1.229182	0.229238	-1.141145	n	-2.090197	-1.156730	-0.007386
h	-0.566245	-1.993618	1.020990	h	-3.341867	1.755096	-0.030969
h	-1.910116	0.247472	2.018580	h	-0.545520	1.680100	0.039873
h	-2.169427	1.684394	-0.102653	h	-0.087134	-0.840683	0.043653
n	-1.744022	0.775340	-0.044562	n	-0.993733	-0.406069	0.022078
n	-0.722194	-0.906893	-0.805873	n	-3.104629	-0.361890	-0.030879
o	1.516153	1.287358	0.187832	o	4.378227	0.063951	-0.049450
c	2.056978	0.273195	0.068013	c	3.231238	-0.006687	0.002022
o	2.614592	-0.731294	-0.034560	o	2.076597	-0.073378	0.054048
$(1A\text{-}CO_2)_g$				$(2A\text{-}CO_2)_a$			
g to e				E= -430.916180089			
				c	1.456591	1.162150	-0.000477
				c	2.203182	-0.788840	0.001162
				n	0.862127	-0.824604	-0.001755
				h	0.230973	-1.609020	-0.002585
				h	1.413522	2.237399	-0.000591
				h	2.821189	-1.670554	0.002357
				n	0.368027	0.423416	-0.002760
				n	2.616972	0.458839	0.002006
				o	-2.785137	1.023043	0.000846
				c	-2.407106	-0.063678	0.000514
				o	-2.078809	-1.175440	0.000552

$(2A\text{-}CO_2)_b$				$(2A\text{-}CO_2)_c$			
E= -430.915253836				E= -430.912756474			
c	1.383208	1.144300	0.000415	c	-0.809134	-1.182821	-0.123466
c	0.904422	-0.894296	0.000826	c	-1.425877	0.565555	0.841820
n	2.237388	-0.741556	-0.000718	n	-1.681173	0.661889	-0.472047
h	2.957736	-1.441890	-0.001703	h	-2.074661	1.428340	-0.988834
h	1.275116	2.214872	0.000628	h	-0.403891	-2.166187	-0.289470
h	0.402965	-1.847105	0.001342	h	-1.647606	1.344962	1.550382
n	2.560584	0.561880	-0.001101	n	-1.285836	-0.451625	-1.107516
n	0.328278	0.287132	0.001754	n	-0.870274	-0.596420	1.101748
o	-2.225628	-1.183540	-0.000323	o	1.526525	1.304942	-0.142489
c	-2.443339	-0.046901	-0.000490	c	2.012905	0.260567	-0.053937
o	-2.722536	1.071454	-0.000217	o	2.513447	-0.775420	0.028254
$(2A\text{-}CO_2)_d$				$(1B\text{-}CO_2)_a$			
E= -430.912024051				E= -430.893617762			
c	3.061110	-0.252747	-0.004528	c	-1.466649	1.182979	-0.000518
c	1.316112	0.894434	0.002700	c	-2.589812	0.343493	0.000823
n	0.997310	-0.409411	0.003549	n	-0.862357	-0.803703	-0.000542
h	0.085725	-0.832070	0.006870	h	-0.250000	-1.603485	-0.000931
h	4.103057	-0.522512	-0.008785	h	-1.394301	2.255520	-0.000896
h	0.583622	1.683143	0.005975	h	-3.638292	0.580866	0.001796
n	2.108895	-1.159917	-0.001045	n	-2.168318	-0.915487	0.000757
n	2.622817	1.033335	-0.002419	n	-0.381417	0.419019	-0.001376
o	-4.383490	0.065422	-0.007810	o	2.090822	-1.162713	-0.000138
c	-3.236258	-0.019889	0.000259	c	2.416350	-0.050820	0.000263
o	-2.081678	-0.103846	0.008405	o	2.785167	1.039510	0.000733
$(1B\text{-}CO_2)_b$				$(1B\text{-}CO_2)_c$			
E= -430.893603184				E= -430.887707097			
c	-2.592032	0.334456	0.038085	c	1.112242	0.701008	0.040573
c	-1.477545	1.183467	-0.013668	c	1.115578	-0.702268	0.039215
n	-0.855958	-0.797575	-0.032302	n	3.062428	0.004162	-0.048580
h	-0.237460	-1.592438	-0.050232	h	4.066331	0.006631	-0.096455
h	-3.641432	0.562937	0.083044	h	0.290576	1.392420	0.078836
h	-1.415069	2.256618	-0.021222	h	0.297179	-1.397598	0.076032
n	-0.386061	0.429493	-0.057880	n	2.374974	-1.115056	-0.018499
n	-2.159677	-0.920719	0.025092	n	2.369629	1.120030	-0.016230
o	2.085167	-1.161761	0.007258	o	-2.151611	-0.019810	0.083924
c	2.417451	-0.051752	0.012800	c	-3.304199	-0.002400	0.001906
o	2.792157	1.036444	0.020334	o	-4.454019	0.014379	-0.079601
$(2B\text{-}CO_2)_a$				$(2B\text{-}CO_2)_b$			
E= -430.904074799				E= -430.903146414			
c	2.461056	-0.585383	0.000096	c	1.712323	-1.077933	-0.000870
c	0.894750	0.895654	0.000023	c	1.712886	1.077824	0.000248
n	1.326266	-1.218440	0.000058	n	0.474510	-0.683658	-0.009124
h	3.435967	-1.039496	0.000116	h	2.049852	-2.099245	0.000745
h	2.937051	1.492267	0.000005	h	3.549645	-0.000541	0.010522
h	0.374724	1.837352	-0.000068	h	2.050787	2.099000	0.003147
n	0.333797	-0.278632	0.000130	n	0.474880	0.684123	-0.007888
n	2.248526	0.761230	0.000038	n	2.545373	-0.000281	0.003996
o	-2.740565	-1.075055	0.000018	o	-2.408948	0.000763	-1.150619
c	-2.441720	0.037344	-0.000122	c	-2.373682	0.000610	0.003483
o	-2.208482	1.171940	-0.000219	o	-2.393901	-0.001202	1.158060
$(2B\text{-}CO_2)_c$				$(2B\text{-}CO_2)_d$			
E= -430.902754480				E= -430.900807003			

c	-1.453825	-0.066943	-1.075949	c	-1.803525	1.075838	0.008823
c	-1.454945	0.042740	1.074984	c	-1.805608	-1.074867	0.008139
n	-0.597745	-0.941532	-0.638193	n	-3.043397	0.685501	-0.037773
h	-1.683427	0.128147	-2.108596	h	-1.464488	2.096684	0.022122
h	-2.715857	1.321245	-0.069169	h	0.034826	-0.001423	0.076020
h	-1.685109	0.343374	2.081755	h	-1.468518	-2.096373	0.020802
n	-0.598407	-0.872108	0.729182	n	-3.044715	-0.682064	-0.038214
n	-2.031377	0.587315	-0.031308	n	-0.970387	-0.000341	0.039623
o	1.485191	1.294602	-0.052355	o	4.512816	0.006514	-0.064558
c	2.085274	0.305663	-0.013372	c	3.364874	-0.001162	0.001312
o	2.717069	-0.656758	0.022889	o	2.208837	-0.008941	0.067803
$(2B\text{-}CO_2)_e$							
E= -430.898544575							
c	1.061849	-0.179882	-0.000021				
c	3.077269	0.583384	0.000135				
n	1.869326	-1.199019	-0.000111				
h	-0.012785	-0.220521	-0.000062				
h	1.415771	1.919559	0.000096				
h	3.912632	1.261142	0.000240				
n	3.149048	-0.714457	-0.000012				
n	1.774225	0.981739	0.000056				
o	-2.428245	0.392211	0.000051				
c	-3.532916	0.050088	-0.000023				
o	-4.634382	-0.287157	-0.000095				

Table S2b: Harmonic frequencies and IR of the Triazole-CO_2 complexes computed at the M05-2X+D3/6-311+G(d,p) level.

Molecular species	Frequencies	IR	Molecular species	Frequencies	IR
$(1A\text{-}CO_2)_a$	37.9814	7.8118	$(2A\text{-}CO_2)_a$	38.1047	0.2693
	62.6138	0.3553		62.4896	2.4420
	64.2096	7.5704		69.3202	6.1136
	113.4499	5.2447		106.9516	1.4814
	162.3429	1.0447		165.9852	1.0460
	635.6490	13.1172		627.3758	53.2229
	677.1198	94.1570		678.5710	98.8680
	694.3538	0.1032		698.2629	19.7396
	703.0114	89.8412		706.1722	3.7576
	756.2975	32.0283		721.6166	92.2631
	806.4077	58.4856		893.0595	15.7331
	891.1492	5.1777		934.1144	11.4248
	979.5382	2.3872		989.0508	4.9271
	1003.7512	1.9368		1014.5790	25.9684
	1092.9133	34.9308		1119.5871	55.9373
	1134.4823	47.6343		1175.8880	39.3175
	1172.6124	12.8762		1219.1735	2.7222
	1221.8631	14.7100		1302.2971	4.7982
	1368.1035	22.3835		1362.4303	24.0103
	1412.0356	2.1756		1413.6145	1.3646
	1415.9092	7.5940		1433.3835	20.9106
	1505.5733	0.3181		1518.7272	41.7329
	1586.2035	15.1555		1601.1424	33.7585
	2459.9837	753.3587		2462.2280	747.4088
	3316.4365	1.3943		3306.7814	0.4341
	3344.9336	1.6032		3316.4599	1.6326
	3697.9981	154.970		3700.0188	151.8628

$(1A\text{-}CO_2)_b$	12.4617	13.8575	$(2A\text{-}CO_2)_b$	46.6328	2.0142
	39.9748	0.0029		54.2090	1.5865
	41.1196	7.3697		54.4829	5.0208
	90.1389	0.3406		90.4755	0.0324
	150.3672	0.6481		159.3763	1.0735
	620.8026	45.2820		612.1157	74.7718
	670.6456	102.0378		669.0969	104.8795
	671.6635	39.4982		697.2207	13.0066
	702.4911	46.3313		703.8698	16.6476
	748.2623	8.2870		715.0118	72.5828
	803.9606	58.1222		897.5431	14.6549
	899.6498	7.4811		934.4631	11.7122
	978.0866	2.3356		991.7094	7.7578
	1003.5276	0.6987		1014.7317	15.0616
	1091.6679	29.3170		1117.2008	59.4256
	1131.5842	48.2051		1173.7401	23.5483
	1172.7561	3.0773		1215.3503	9.2721
	1215.2653	8.6480		1303.6997	1.8424
	1364.6988	24.5941		1365.3919	22.5872
	1412.2763	1.5753		1413.3743	1.4480
	1415.0018	1.3707		1445.7381	11.7381
	1496.7597	0.0743		1517.7169	25.6602
	1589.0008	7.4134		1611.0432	30.7396
	2457.5475	738.1278		2460.2636	732.8430
	3327.8409	3.6065		3291.5292	3.2283
	3346.3942	1.5361		3311.5767	1.2405
	3720.5998	123.9707		3727.2754	120.0834
$(1A\text{-}CO_2)_c$	21.0596	9.7938	$(2A\text{-}CO_2)_c$	27.3133	0.7913
	41.7786	3.2624		50.5967	1.9466
	47.2917	6.3721		63.0392	3.2720
	81.9093	0.8136		72.7096	4.5295
	113.6989	1.0416		98.5581	0.2546
	616.0736	47.1979		604.6762	86.4051
	670.7545	43.4211		688.2103	61.0194
	684.7991	84.1788		693.7168	23.7259
	701.0913	37.2298		696.9645	23.9561
	748.2421	7.8438		714.2929	52.0242
	802.7326	62.1284		888.8904	14.4564
	887.8179	3.6539		927.0868	13.1381
	979.6148	1.4797		986.4027	4.4204
	1002.2775	1.0140		1015.2192	12.9475
	1095.0912	27.4619		1119.3485	47.8394
	1129.8237	38.2029		1172.7772	22.4422
	1174.9768	4.5358		1215.0063	6.3812
	1219.2716	6.9062		1304.8502	0.9221
	1366.3172	22.1549		1358.4336	23.3770
	1414.4235	1.0105		1417.4739	0.1451
	1417.4621	3.0002		1442.4678	14.6337
	1502.7761	0.1511		1516.7992	22.4791
	1592.3526	6.5436		1606.6777	28.0538
	2460.2368	758.5596		2465.9410	684.0128
	3317.4803	2.5606		3299.2316	0.8658
	3342.0572	2.1289		3305.7965	1.0780
	3727.5503	122.8058		3728.2943	119.3973
$(1A\text{-}CO_2)_d$	7.3889	6.7639	$(2A\text{-}CO_2)_d$	1.1032	1.9080
	34.1110	5.0939		13.5608	2.3183
	44.1236	5.5234		44.9583	0.0062
	67.0047	4.2543		60.2127	3.3535
	103.9214	2.5492		81.8601	1.4097
	618.4463	50.5994		627.0157	53.6250
	667.8041	47.4178		693.1649	41.6509
	684.8564	66.8296		696.7265	42.0371
	693.0470	35.4691		703.2568	0.9604
	747.9555	9.5217		726.2477	76.8762
	801.9810	58.6266		876.9830	14.3060
	887.3966	4.6192		923.7313	12.0277
	977.4661	1.9282		986.8128	9.4383
	1003.3635	0.9871		1016.8870	11.6762
	1095.8885	26.7816		1118.0726	52.5559
	1133.4718	36.7771		1170.6574	42.3225
	1174.3398	5.7105		1218.0488	4.5933
	1219.6099	6.2627		1301.9632	2.9063
	1361.0756	22.2506		1363.2104	25.9193
	1413.4227	0.4930		1418.5684	2.0113
	1419.3939	1.5396		1440.4216	19.1236
	1501.0267	0.2603		1514.4267	25.3697
	1590.4983	6.6278		1606.4165	44.7949
	2459.4742	743.1264		2467.7826	1042.1548
	3318.7337	2.3123		3287.5693	1.6619
	3339.2891	1.5363		3301.9682	1.4768
	3722.6046	120.591		3735.2311	209.8484
$(1A\text{-}CO_2)_e$	31.2772	2.9463	$(2B\text{-}CO_2)_a$	47.6950	17.6638
	52.9624	15.8376		59.4867	0.3886
	62.1129	0.0453		60.6265	11.5249
	86.7977	3.2307		96.0058	2.0705
	118.7334	0.4944		160.4976	1.7488

	628.4333 674.7569 684.7617 697.7932 749.3838 805.7146 886.2947 976.8096 1003.6140 1093.5254 1131.0402 1172.2756 1213.7668 1360.9247 1414.4586 1415.0922 1499.5528 1589.6058 2459.1828 3313.6173 3341.5929 3720.5176	38.2752 64.3198 57.4339 37.1714 11.8933 61.6210 5.1136 1.5418 0.7086 25.4285 33.2218 4.1268 7.4055 19.2725 0.3840 2.1631 0.1626 7.2794 699.9803 2.4120 2.6638 122.9823		572.3703 669.5352 677.3740 702.9204 711.4324 836.5520 876.1566 971.9916 998.2404 1093.3318 1117.8050 1145.3154 1255.7677 1356.7867 1414.0401 1454.2880 1573.3648 1574.3691 2461.9949 3302.2578 3314.6272 3737.9030	126.6048 103.6872 2.3438 36.6815 3.5195 1.5788 31.7295 0.1314 2.6533 29.2848 5.2461 34.7841 1.4111 0.9159 1.9606 34.4259 27.8345 17.1696 738.2081 0.9095 2.1428 109.0847
$(1A\text{-}CO_2)_f$	6.1624 14.5166 41.3577 57.9856 79.4358 633.4822 688.0303 693.9268 696.1923 758.3670 793.9298 881.2997 977.5966 1000.0495 1090.7612 1132.5970 1174.5656 1216.7076 1361.2030 1417.4487 1420.3596 1497.6158 1588.7952 2470.9122 3317.7382 3336.1508 3724.4746	4.4773 6.0026 0.3700 5.3003 1.0871 17.6040 27.6077 69.0774 44.5264 22.6742 57.4207 6.6335 0.7240 1.7834 30.2759 49.4431 10.4854 13.6841 24.7775 5.3992 5.8313 2.2400 10.7592 1048.8468 2.5132 0.1691 212.5526	$(2B\text{-}CO_2)_b$	6.5016 53.6682 60.3533 99.8229 122.7561 544.7403 668.0670 693.2003 697.0381 708.6425 828.3329 864.3838 967.8805 998.4215 1083.1214 1116.6417 1141.7728 1253.8058 1357.4647 1412.4225 1454.7159 1577.2727 1577.6842 2455.9595 3312.4687 3316.5894 3742.2873	22.0712 12.3715 0.0286 0.1583 1.0485 127.4168 0.0022 87.8046 36.4760 0.0005 0.0001 33.6610 0.0203 4.1322 17.4274 5.5975 32.7807 0.4204 1.2082 1.0185 32.7800 15.5433 40.5132 754.6329 1.5780 0.0681 113.3567
$(1A\text{-}CO_2)_g$	g to e	g to e	$(2B\text{-}CO_2)_c$	28.2486 47.1072 58.9871 77.6844 95.7568 558.8680 671.6656 687.4753 697.1302 706.9777 832.4433 868.1480 967.6572 996.0869 1078.4415 1117.8786 1141.8917 1252.9890 1356.0931 1415.0652 1452.0551 1570.8693 1574.3431 2462.5611 3309.6496 3315.1557 3735.7300	23.0779 6.3323 0.2363 6.4794 2.5081 131.2443 0.5994 70.2589 31.1826 3.5232 0.0254 31.5183 0.0179 3.4603 17.3669 5.6117 30.0688 0.4418 1.4280 0.6861 30.8737 26.6290 26.9603 739.2098 1.9144 0.2712 111.3001
$(1B\text{-}CO_2)_a$	33.2452 58.9089 66.4632 105.6963 162.9113 651.9066 680.3186 690.0328 699.9116 758.7124	0.0015 0.1181 0.9291 0.2226 0.1251 20.2788 95.3679 0.2912 33.9294 69.1316	$(2B\text{-}CO_2)_d$	24.3687 26.0098 44.7452 63.4791 73.2388 596.1314 690.6494 693.1785 695.2342 708.9071	4.0262 10.5810 8.2327 12.4800 1.0247 111.6824 0.2724 43.0862 56.2365 0.0000

	865.0283	67.7014		824.1441	0.0001
	920.5892	0.4685		861.3055	34.1071
	987.7378	37.8964		970.1915	0.0640
	1013.8852	16.8663		997.7235	0.3487
	1100.8670	0.2925		1084.0093	23.1587
	1174.1303	52.3186		1129.8656	3.5249
	1237.1652	12.3853		1144.1122	33.3766
	1312.2994	30.4007		1252.4585	0.7651
	1337.5919	0.4370		1353.8368	1.7917
	1414.8244	1.1779		1419.4011	3.3387
	1462.9961	7.4525		1460.4817	28.7326
	1480.2995	7.5471		1572.9628	13.8431
	1591.5085	3.2018		1573.8603	39.0991
	2464.1850	738.3308		2469.4526	1045.1075
	3310.0706	0.4427		3310.0530	0.4186
	3325.9284	0.0362		3314.2680	0.1935
	3700.2525	170.2010		3717.0882	335.6848
$(1B\text{-}CO_2)_b$	30.7077	0.0026	$(2B\text{-}CO_2)_e$	22.0453	0.2207
	58.9399	0.1884		24.6481	12.5559
	64.6968	0.9373		34.5812	0.2188
	106.3419	0.2188		45.8813	4.6088
	161.2778	0.1127		60.9854	0.3079
	653.6178	19.3761		565.6558	125.0713
	679.8444	94.6301		677.3225	1.2614
	689.6865	0.2731		697.4252	44.3287
	699.6788	34.1675		698.2031	42.3753
	759.7491	69.6421		707.9885	0.0534
	865.1444	68.0498		830.1870	3.2157
	920.6186	0.4248		874.6757	31.0881
	987.9218	37.9841		967.8689	0.0479
	1014.3924	16.8101		996.5596	5.2959
	1102.2687	0.3326		1083.7533	16.3443
	1175.1521	53.1314		1114.1871	6.9398
	1236.8930	12.1592		1141.4112	33.8160
	1312.8461	30.1858		1255.5539	0.2088
	1338.5295	0.4858		1353.3225	1.7979
	1414.2852	1.1720		1420.1898	0.8100
	1463.5280	7.9250		1452.1545	39.4141
	1482.4967	7.5901		1570.4270	28.2887
	1592.5254	3.3635		1573.9166	24.9502
	2463.1338	739.3653		2471.4606	995.6522
	3310.9891	0.4454		3316.0489	3.0653
	3326.3871	0.0209		3322.8758	10.2809
	3697.5122	171.6169		3746.9035	101.7656
$(1B\text{-}CO_2)_c$	12.8947	0.0121			
	21.6454	0.0054			
	48.1285	0.0042			
	66.0821	0.0409			
	72.4095	0.0027			
	620.5925	44.9131			
	692.0132	0.0350			
	696.2274	40.3803			
	697.6462	40.6720			
	746.1587	49.7141			
	868.3897	65.0828			
	923.0905	0.0007			
	986.3429	31.6035			
	1017.0040	21.0914			
	1111.2136	2.9616			
	1183.2563	41.4310			
	1233.3641	16.8776			
	1315.6054	11.3995			
	1342.6446	0.6185			
	1417.2756	0.1989			
	1464.1168	1.1145			
	1488.3815	13.9217			
	1594.6944	0.1942			
	2463.6377	1019.5104			
	3321.2101	0.1121			
	3335.7719	0.0100			
	3731.4156	143.9539			

Table S3: Comparison of some internal distances of isolated CO_2, triazoles and TZ-CO_2 complexes.

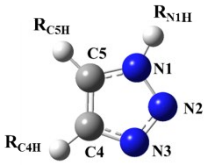
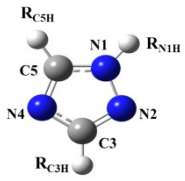
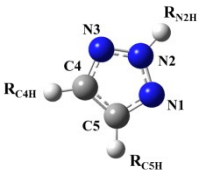
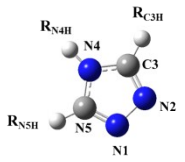
Definition of the parameters	Complexes	Distance	M052X+D3/6-311++G(d,p)
	CO_2	R_{CO}	1.154
 1*H*-1,2,3-triazole: 1A	1A	R_{N1H} R_{C4H} R_{C5H}	1.004 1.073 1.073
	$(1A\text{-}CO_2)_a$	R_{N1H} R_{CO}	1.007 1.160
	$(1A\text{-}CO_2)_c$	R_{C4H} R_{CO}	1.074 1.157
	$(1A\text{-}CO_2)_f$	R_{N1H} R_{CO}	1.005 1.157
 1*H*-1,2,4-triazole: 2A	2A	R_{N1H} R_{C3H} R_{C5H}	1.004 1.076 1.076
	$(2A\text{-}CO_2)_a$	R_{N1H} R_{CO}	1.006 1.159
	$(2A\text{-}CO_2)_b$	R_{C5H} R_{CO}	1.076 1.157
	$(2A\text{-}CO_2)_d$	R_{N1H} R_{CO}	1.004 1.157
 2*H*-1,2,3-triazole: 1B	1B	R_{N2H} R_{C4H} R_{C5H}	1.004 1.074 1.074
	$(1B\text{-}CO_2)_a$	R_{N2H} R_{CO}	1.007 1.158
	$(1B\text{-}CO_2)_c$	R_{C4H} R_{CO}	1.074 1.155
 4*H*-1,2,4-triazole: 2B	2B	R_{N4H} R_{C3H} R_{C5H}	1.004 1.075 1.075
	$(2B\text{-}CO_2)_a$	R_{C3H} R_{CO}	1.075 1.158
	$(2B\text{-}CO_2)_d$	R_{N4H} R_{CO}	1.005 1.158
	$(2B\text{-}CO_2)_e$	R_{C3H} R_{CO}	1.075 1.156

Figure S1: Simulated IR spectra of TZ (1A, 2A, 1B, 2B) and of TZ-CO_2.

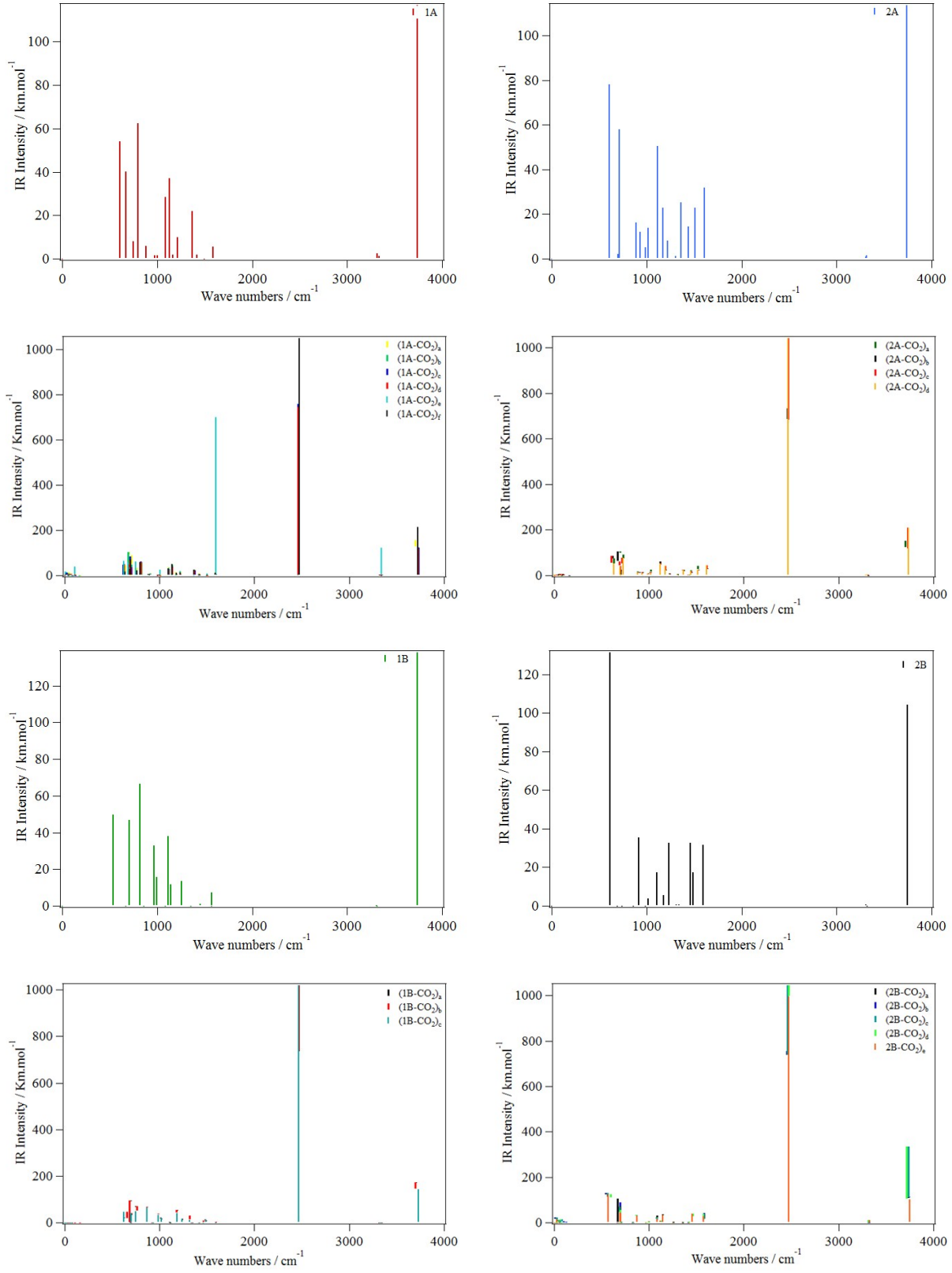


Table S4: CCSD(T)-F12 potentials depicted in Figure 3. The column following the angle (degree) column corresponds to the energy (kcal/mol) computed for the corresponding R distance.

1A- CO_2

angle	R_e - 0.3	angle	R_e - 0.15	angle	R_e	angle	R_e + 0.15	angle	R_e + 0.3	angle	R_e + 0.5	angle	R_e + 1	angle	R_e + 2
0	34.5301	0	20.3643	0	11.8625	0	5.68304	0	3.92484	0	1.90396	0	0.364112	0	0.14124
1.80905	34.7267	1.80905	20.307	1.80905	11.6904	1.80905	5.50655	1.80905	3.7383	1.80905	1.72171	1.80905	0.257989	1.80905	0.108915
3.61809	34.842	3.61809	20.1982	3.61809	11.4864	3.61809	5.3122	3.61809	3.53874	3.61809	1.5326	3.61809	0.150089	3.61809	0.0761455
5.42714	34.7942	5.42714	19.9865	5.42714	11.2185	5.42714	5.08213	5.42714	3.31313	5.42714	1.32977	5.42714	0.0386354	5.42714	0.0424879
7.23618	34.5021	7.23618	19.6206	7.23618	10.8549	7.23618	4.79849	7.23618	3.04844	7.23618	1.10637	7.23618	-0.0781501	7.23618	0.00749754
9.04523	33.8841	9.04523	19.0489	9.04523	10.3636	9.04523	4.44341	9.04523	2.73165	9.04523	0.855528	9.04523	-0.202044	9.04523	-0.0292697
10.8543	32.8614	10.8543	18.222	10.8543	9.7138	10.8543	3.99973	10.8543	2.35027	10.8543	0.570714	10.8543	-0.334729	10.8543	-0.0682376
12.6633	31.426	12.6633	17.1379	12.6633	8.90635	12.6633	3.46882	12.6633	1.90589	12.6633	0.253739	12.6633	-0.475416	12.6633	-0.109296
14.4724	29.6459	14.4724	15.8464	14.4724	7.97579	14.4724	2.87195	14.4724	1.41523	14.4724	-0.0845959	14.4724	-0.620652	14.4724	-0.15176
16.2814	27.5929	16.2814	14.3997	16.2814	6.95837	16.2814	2.23138	16.2814	0.89576	16.2814	-0.433046	16.2814	-0.766857	16.2814	-0.194917
18.0905	25.3388	18.0905	12.8499	18.0905	5.89034	18.0905	1.56934	18.0905	0.364946	18.0905	-0.780368	18.0905	-0.910449	18.0905	-0.238053
19.8995	22.9553	19.8995	11.2492	19.8995	4.80794	19.8995	0.908101	19.8995	-0.159741	19.8995	-1.11532	19.8995	-1.04785	19.8995	-0.280455
21.7085	20.5095	21.7085	9.64524	21.7085	3.74361	21.7085	0.267356	21.7085	-0.662954	21.7085	-1.42856	21.7085	-1.176	21.7085	-0.321499
23.5176	18.0462	23.5176	8.06302	23.5176	2.71182	23.5176	-0.345272	23.5176	-1.13938	23.5176	-1.71977	23.5176	-1.29439	23.5176	-0.36098
25.3266	15.6037	25.3266	6.52115	25.3266	1.72172	25.3266	-0.925723	25.3266	-1.58668	25.3266	-1.99128	25.3266	-1.40322	25.3266	-0.398818
27.1357	13.2203	27.1357	5.03819	27.1357	0.782469	27.1357	-1.46994	27.1357	-2.00251	27.1357	-2.24543	27.1357	-1.50273	27.1357	-0.434932
28.9447	10.9344	28.9447	3.6327	28.9447	-0.0967892	28.9447	-1.97386	28.9447	-2.38451	28.9447	-2.48456	28.9447	-1.59312	28.9447	-0.469242
30.7538	8.78371	30.7538	2.32308	30.7538	-0.906995	30.7538	-2.43348	30.7538	-2.73038	30.7538	-2.71086	30.7538	-1.67462	30.7538	-0.501667
32.5628	6.79414	32.5628	1.12163	32.5628	-1.64249	32.5628	-2.84667	32.5628	-3.0391	32.5628	-2.92112	32.5628	-1.74755	32.5628	-0.532157
34.3719	4.97631	34.3719	0.0330856	34.3719	-2.30182	34.3719	-3.21364	34.3719	-3.31128	34.3719	-3.10547	34.3719	-1.81232	34.3719	-0.560693
36.1809	3.33989	36.1809	-0.938271	36.1809	-2.88381	36.1809	-3.53475	36.1809	-3.54762	36.1809	-3.25361	36.1809	-1.86937	36.1809	-0.587261
37.9899	1.89459	37.9899	-1.78817	37.9899	-3.38729	37.9899	-3.81035	37.9899	-3.74882	37.9899	-3.35523	37.9899	-1.91913	37.9899	-0.611847
39.799	0.650096	39.799	-2.51235	39.799	-3.81107	39.799	-4.0408	39.799	-3.91558	39.799	-3.40003	39.799	-1.96203	39.799	-0.634435
41.608	-0.385767	41.608	-3.10746	41.608	-4.15435	41.608	-4.22654	41.608	-4.04863	41.608	-3.38249	41.608	-1.99846	41.608	-0.655012
43.4171	-1.21561	43.4171	-3.57526	43.4171	-4.41844	43.4171	-4.3685	43.4171	-4.14879	43.4171	-3.32391	43.4171	-2.02856	43.4171	-0.673564
45.2261	-1.84568	45.2261	-3.91933	45.2261	-4.6054	45.2261	-4.46776	45.2261	-4.21694	45.2261	-3.25487	45.2261	-2.05239	45.2261	-0.690081
47.0352	-2.28222	47.0352	-4.14323	47.0352	-4.71727	47.0352	-4.52543	47.0352	-4.25396	47.0352	-3.20597	47.0352	-2.07	47.0352	-0.704552
48.8442	-2.53147	48.8442	-4.25051	48.8442	-4.7561	48.8442	-4.5426	48.8442	-4.26073	48.8442	-3.20783	48.8442	-2.08143	48.8442	-0.716965
50.6533	-2.59972	50.6533	-4.24479	50.6533	-4.72396	50.6533	-4.52037	50.6533	-4.23811	50.6533	-3.29039	50.6533	-2.08676	50.6533	-0.727309
52.4623	-2.49549	52.4623	-4.13122	52.4623	-4.62402	52.4623	-4.46038	52.4623	-4.18732	52.4623	-3.45151	52.4623	-2.08601	52.4623	-0.73558
54.2714	-2.23049	54.2714	-3.91726	54.2714	-4.46102	54.2714	-4.36501	54.2714	-4.10999	54.2714	-3.64281	54.2714	-2.07919	54.2714	-0.74178
56.0804	-1.81668	56.0804	-3.61054	56.0804	-4.23984	56.0804	-4.23671	56.0804	-4.00782	56.0804	-3.81234	56.0804	-2.0663	56.0804	-0.745916
57.8894	-1.26601	57.8894	-3.21866	57.8894	-3.96535	57.8894	-4.07792	57.8894	-3.88249	57.8894	-3.90815	57.8894	-2.04734	57.8894	-0.747992
59.6985	-0.590443	59.6985	-2.74927	59.6985	-3.64241	59.6985	-3.8911	59.6985	-3.73568	59.6985	-3.87826	59.6985	-2.02233	59.6985	-0.748011
61.5075	0.196999	61.5075	-2.21063	61.5075	-3.27627	61.5075	-3.67889	61.5075	-3.56923	61.5075	-3.68124	61.5075	-1.99133	61.5075	-0.745998
63.3166	1.07629	63.3166	-1.61534	63.3166	-2.87466	63.3166	-3.44519	63.3166	-3.38608	63.3166	-3.34556	63.3166	-1.95483	63.3166	-0.742089
65.1256	2.02453	65.1256	-0.977802	65.1256	-2.44631	65.1256	-3.19447	65.1256	-3.18956	65.1256	-2.92819	65.1256	-1.91351	65.1256	-0.736471
66.9347	3.01882	66.9347	-0.312377	66.9347	-1.99996	66.9347	-2.93115	66.9347	-2.98303	66.9347	-2.4862	66.9347	-1.86804	66.9347	-0.729329
68.7437	4.03626	68.7437	0.366547	68.7437	-1.54437	68.7437	-2.65969	68.7437	-2.76985	68.7437	-2.07665	68.7437	-1.81909	68.7437	-0.720851
70.5528	5.05393	70.5528	1.04459	70.5528	-1.08826	70.5528	-2.38453	70.5528	-2.55338	70.5528	-1.75621	70.5528	-1.76734	70.5528	-0.711221
72.3618	6.04856	72.3618	1.7072	72.3618	-0.640669	72.3618	-2.11046	72.3618	-2.33722	72.3618	-1.55241	72.3618	-1.71355	72.3618	-0.7006

74.1709	6.99622	74.1709	2.33959	74.1709	-0.211038	74.1709	-1.84284	74.1709	-2.12538	74.1709	-1.44405	74.1709	-1.65867	74.1709	-0.689103
75.9799	7.87294	75.9799	2.92693	75.9799	0.191129	75.9799	-1.5871	75.9799	-1.92191	75.9799	-1.40535	75.9799	-1.60364	75.9799	-0.676845
77.7889	8.65476	77.7889	3.45439	77.7889	0.556331	77.7889	-1.34866	77.7889	-1.73085	77.7889	-1.4105	77.7889	-1.54941	77.7889	-0.663938
79.598	9.3177	79.598	3.90714	79.598	0.875069	79.598	-1.13293	79.598	-1.55626	79.598	-1.43369	79.598	-1.49694	79.598	-0.650494
81.407	9.83961	81.407	4.27144	81.407	1.1385	81.407	-0.94502	81.407	-1.40198	81.407	-1.45141	81.407	-1.44714	81.407	-0.636653
83.2161	10.2129	83.2161	4.54221	83.2161	1.34303	83.2161	-0.78763	83.2161	-1.27022	83.2161	-1.45813	83.2161	-1.40079	83.2161	-0.622766
85.0251	10.4371	85.0251	4.7185	85.0251	1.48757	85.0251	-0.662295	85.0251	-1.16239	85.0251	-1.45696	85.0251	-1.35857	85.0251	-0.609285
86.8342	10.5115	86.8342	4.79936	86.8342	1.57101	86.8342	-0.570543	86.8342	-1.07991	86.8342	-1.45104	86.8342	-1.32117	86.8342	-0.596662
88.6432	10.4355	88.6432	4.78387	88.6432	1.5923	88.6432	-0.513904	88.6432	-1.02421	88.6432	-1.44351	88.6432	-1.28926	88.6432	-0.58535
90.4523	10.2087	90.4523	4.67113	90.4523	1.55036	90.4523	-0.493894	90.4523	-0.996684	90.4523	-1.43751	90.4523	-1.26353	90.4523	-0.5758
92.2613	9.83747	92.2613	4.46456	92.2613	1.44682	92.2613	-0.51053	92.2613	-0.997602	92.2613	-1.43589	92.2613	-1.24437	92.2613	-0.568245
94.0704	9.34168	94.0704	4.176	94.0704	1.28853	94.0704	-0.560911	94.0704	-1.025	94.0704	-1.44093	94.0704	-1.23163	94.0704	-0.562501
95.8794	8.74275	95.8794	3.81825	95.8794	1.08293	95.8794	-0.6418	95.8794	-1.07667	95.8794	-1.45484	95.8794	-1.2251	95.8794	-0.558334
97.6884	8.06211	97.6884	3.40412	97.6884	0.83748	97.6884	-0.749963	97.6884	-1.15039	97.6884	-1.47983	97.6884	-1.22455	97.6884	-0.555511
99.4975	7.32116	99.4975	2.94639	99.4975	0.559613	99.4975	-0.882162	99.4975	-1.24395	99.4975	-1.51812	99.4975	-1.22977	99.4975	-0.553798
101.307	6.5412	101.307	2.45787	101.307	0.256846	101.307	-1.03505	101.307	-1.35503	101.307	-1.57158	101.307	-1.2405	101.307	-0.552974
103.116	5.74232	103.116	1.95142	103.116	-0.0626579	103.116	-1.20417	103.116	-1.48024	103.116	-1.63872	103.116	-1.25615	103.116	-0.552924
104.925	4.94391	104.925	1.43991	104.925	-0.390379	104.925	-1.38446	104.925	-1.61565	104.925	-1.71623	104.925	-1.27593	104.925	-0.553597
106.734	4.1654	106.734	0.9362	106.734	-0.71779	106.734	-1.57086	106.734	-1.75729	106.734	-1.80075	106.734	-1.29906	106.734	-0.554941
108.543	3.42617	108.543	0.453179	108.543	-1.03637	108.543	-1.75829	108.543	-1.90121	108.543	-1.88896	108.543	-1.32475	108.543	-0.556903
110.352	2.74562	110.352	0.00370854	110.352	-1.33759	110.352	-1.94169	110.352	-2.04344	110.352	-1.97749	110.352	-1.35221	110.352	-0.559431
112.161	2.14027	112.161	-0.40103	112.161	-1.61381	112.161	-2.11625	112.161	-2.18021	112.161	-2.0634	112.161	-1.38062	112.161	-0.562412
113.97	1.62014	113.97	-0.753676	113.97	-1.85936	113.97	-2.27783	113.97	-2.3081	113.97	-2.14458	113.97	-1.40903	113.97	-0.5656
115.779	1.19435	115.779	-1.0474	115.779	-2.06886	115.779	-2.42232	115.779	-2.42376	115.779	-2.21905	115.779	-1.43648	115.779	-0.568728
117.588	0.872021	117.588	-1.27536	117.588	-2.23692	117.588	-2.54565	117.588	-2.52384	117.588	-2.28484	117.588	-1.46202	117.588	-0.571527
119.397	0.662267	119.397	-1.43073	119.397	-2.35814	119.397	-2.64373	119.397	-2.60498	119.397	-2.33998	119.397	-1.4847	119.397	-0.573733
121.206	0.573612	121.206	-1.5071	121.206	-2.42744	121.206	-2.71269	121.206	-2.66398	121.206	-2.38254	121.206	-1.50357	121.206	-0.575083
123.015	0.607576	123.015	-1.50303	123.015	-2.44338	123.015	-2.75088	123.015	-2.69936	123.015	-2.41134	123.015	-1.51792	123.015	-0.575378
124.824	0.761169	124.824	-1.42025	124.824	-2.40684	124.824	-2.75815	124.824	-2.71073	124.824	-2.42567	124.824	-1.52718	124.824	-0.574459
126.633	1.03132	126.633	-1.26058	126.633	-2.31875	126.633	-2.73435	126.633	-2.69774	126.633	-2.42483	126.633	-1.53078	126.633	-0.572168
128.442	1.41497	128.442	-1.02581	128.442	-2.18004	128.442	-2.67934	128.442	-2.66004	128.442	-2.40811	128.442	-1.52815	128.442	-0.568344
130.251	1.90904	130.251	-0.717755	130.251	-1.99165	130.251	-2.59298	130.251	-2.59727	130.251	-2.37481	130.251	-1.51871	130.251	-0.562831
132.06	2.50669	132.06	-0.340593	132.06	-1.75598	132.06	-2.47602	132.06	-2.50979	132.06	-2.32474	132.06	-1.50211	132.06	-0.555511
133.869	3.19108	133.869	0.0951967	133.869	-1.47938	133.869	-2.3315	133.869	-2.39984	133.869	-2.25913	133.869	-1.47856	133.869	-0.546373
135.678	3.94376	135.678	0.578103	135.678	-1.16886	135.678	-2.16289	135.678	-2.26997	135.678	-2.17939	135.678	-1.44834	135.678	-0.535426
137.487	4.74625	137.487	1.09662	137.487	-0.831417	137.487	-1.97362	137.487	-2.12275	137.487	-2.08699	137.487	-1.41175	137.487	-0.522678
139.296	5.58007	139.296	1.63922	139.296	-0.474046	139.296	-1.76714	139.296	-1.96072	139.296	-1.98334	139.296	-1.36908	139.296	-0.508138
141.106	6.42669	141.106	2.19435	141.106	-0.103809	141.106	-1.54696	141.106	-1.78649	141.106	-1.86993	141.106	-1.32065	141.106	-0.491819
142.915	7.26656	142.915	2.74964	142.915	0.271381	142.915	-1.31749	142.915	-1.6034	142.915	-1.7487	142.915	-1.26707	142.915	-0.473811
144.724	8.07938	144.724	3.29213	144.724	0.64297	144.724	-1.0838	144.724	-1.4153	144.724	-1.62197	144.724	-1.20916	144.724	-0.454263
146.533	8.84483	146.533	3.80885	146.533	1.00239	146.533	-0.850994	146.533	-1.22609	146.533	-1.49206	146.533	-1.14776	146.533	-0.433324
148.342	9.5426	148.342	4.28681	148.342	1.34106	148.342	-0.624163	148.342	-1.03965	148.342	-1.36128	148.342	-1.08369	148.342	-0.411143
150.151	10.1524	150.151	4.71305	150.151	1.65042	150.151	-0.408401	150.151	-0.859863	150.151	-1.23197	150.151	-1.0178	150.151	-0.387869
151.96	10.6588	151.96	5.07759	151.96	1.9237	151.96	-0.207984	151.96	-0.690054	151.96	-1.10618	151.96	-0.950884	151.96	-0.363662
153.769	11.0623	153.769	5.37978	153.769	2.15971	153.769	-0.0246338	153.769	-0.531784	153.769	-0.985199	153.769	-0.883642	153.769	-0.338714
155.578	11.3663	155.578	5.62082	155.578	2.35838	155.578	0.140426	155.578	-0.386276	155.578	-0.870169	155.578	-0.816759	155.578	-0.313225

157.387	11.5741	157.387	5.80189	157.387	2.51962	157.387	0.28597	157.387	-0.254752	157.387	-0.762222	157.387	-0.750917	157.387	-0.287392
159.196	11.6891	159.196	5.92417	159.196	2.64335	159.196	0.410776	159.196	-0.138433	159.196	-0.662492	159.196	-0.6868	159.196	-0.261414
161.005	11.7153	161.005	5.98924	161.005	2.72974	161.005	0.513779	161.005	-0.038421	161.005	-0.572043	161.005	-0.625067	161.005	-0.235488
162.814	11.668	162.814	6.00602	162.814	2.78388	162.814	0.596799	162.814	0.0463564	162.814	-0.490662	162.814	-0.565981	162.814	-0.209774
164.623	11.572	164.623	5.98971	164.623	2.81504	164.623	0.664152	164.623	0.118851	164.623	-0.417036	164.623	-0.509454	164.623	-0.184397
166.432	11.4524	166.432	5.95573	166.432	2.83267	166.432	0.720234	166.432	0.182076	166.432	-0.349813	166.432	-0.45539	166.432	-0.159483
168.241	11.3344	168.241	5.91952	168.241	2.8462	168.241	0.769443	168.241	0.239045	168.241	-0.287642	168.241	-0.403691	168.241	-0.135158
170.05	11.2431	170.05	5.8965	170.05	2.86504	170.05	0.816174	170.05	0.292771	170.05	-0.229174	170.05	-0.35426	170.05	-0.111547
171.859	11.2046	171.859	5.90281	171.859	2.89919	171.859	0.865281	171.859	0.346671	171.859	-0.172763	171.859	-0.30693	171.859	-0.0887649
173.668	11.2475	173.668	5.95731	173.668	2.96057	173.668	0.923286	173.668	0.405641	173.668	-0.115687	173.668	-0.261282	173.668	-0.0668793
175.477	11.4013	175.477	6.07942	175.477	3.0616	175.477	0.997096	175.477	0.474917	175.477	-0.0549721	175.477	-0.216836	175.477	-0.0459489
177.286	11.6954	177.286	6.28861	177.286	3.21467	177.286	1.09362	177.286	0.559737	177.286	0.0123527	177.286	-0.173113	177.286	-0.0260324
179.095	12.1593	179.095	6.60433	179.095	3.4322	179.095	1.21977	179.095	0.665337	179.095	0.0892595	179.095	-0.129635	179.095	-0.00718821
180.905	12.8221	180.905	7.04584	180.905	3.72647	180.905	1.38238	180.905	0.796895	180.905	0.178677	180.905	-0.085935	180.905	0.0105247
182.714	13.7071	182.714	7.62813	182.714	4.10701	182.714	1.58681	182.714	0.958266	182.714	0.28252	182.714	-0.0418518	182.714	0.0270365
184.523	14.8318	184.523	8.3619	184.523	4.58062	184.523	1.83694	184.523	1.15198	184.523	0.401697	184.523	0.00247343	184.523	0.0422663
186.332	16.2135	186.332	9.2577	186.332	5.15397	186.332	2.13658	186.332	1.38049	186.332	0.537067	186.332	0.0468862	186.332	0.0561329
188.141	17.8695	188.141	10.326	188.141	5.83374	188.141	2.48952	188.141	1.64628	188.141	0.689494	188.141	0.0912321	188.141	0.068555
189.95	19.817	189.95	11.5774	189.95	6.6266	189.95	2.89958	189.95	1.95182	189.95	0.859837	189.95	0.135356	189.95	0.0794512
191.759	22.0642	191.759	13.0167	191.759	7.53547	191.759	3.36855	191.759	2.29807	191.759	1.04815	191.759	0.178947	191.759	0.0887266
193.568	24.5806	193.568	14.6236	193.568	8.5469	193.568	3.88945	193.568	2.6795	193.568	1.25099	193.568	0.221008	193.568	0.0962262
195.377	27.3248	195.377	16.3711	195.377	9.64303	195.377	4.45291	195.377	3.0888	195.377	1.46393	195.377	0.260356	195.377	0.101779
197.186	30.2554	197.186	18.2323	197.186	10.806	197.186	5.04957	197.186	3.51867	197.186	1.68259	197.186	0.295809	197.186	0.105213
198.995	33.3313	198.995	20.1801	198.995	12.0179	198.995	5.67007	198.995	3.96181	198.995	1.90254	198.995	0.326184	198.995	0.106358
200.804	36.5108	200.804	22.1872	200.804	13.2606	200.804	6.30492	200.804	4.41081	200.804	2.11936	200.804	0.350302	200.804	0.105047
202.613	39.7386	202.613	24.217	202.613	14.51	202.613	6.94095	202.613	4.85584	202.613	2.32764	202.613	0.367077	202.613	0.101244
204.422	42.9441	204.422	26.222	204.422	15.7348	204.422	7.56073	204.422	5.28419	204.422	2.52087	204.422	0.375529	204.422	0.095064
206.231	46.056	206.231	28.1541	206.231	16.9033	206.231	8.1466	206.231	5.68299	206.231	2.69247	206.231	0.374687	206.231	0.0866311
208.04	49.0027	208.04	29.9652	208.04	17.9838	208.04	8.6809	208.04	6.03938	208.04	2.83588	208.04	0.363576	208.04	0.0760691
209.849	51.7128	209.849	31.6071	209.849	18.9446	209.849	9.14594	209.849	6.3405	209.849	2.94451	209.849	0.341224	209.849	0.063502
211.658	54.1182	211.658	33.0348	211.658	19.7564	211.658	9.52574	211.658	6.57487	211.658	3.01274	211.658	0.306998	211.658	0.0490979
213.467	56.1677	213.467	34.2173	213.467	20.4025	213.467	9.81281	213.467	6.7382	213.467	3.03977	213.467	0.262007	213.467	0.0332528
215.276	57.8159	215.276	35.1285	215.276	20.87	215.276	10.0024	215.276	6.82849	215.276	3.02634	215.276	0.207921	215.276	0.0164358
217.085	59.0174	217.085	35.7424	217.085	21.146	217.085	10.0898	217.085	6.84373	217.085	2.9732	217.085	0.146409	217.085	-0.000884099
218.894	59.7265	218.894	36.0327	218.894	21.2177	218.894	10.0703	218.894	6.78193	218.894	2.88111	218.894	0.07914	218.894	-0.0182377
220.704	59.8985	220.704	35.9739	220.704	21.0725	220.704	9.93926	220.704	6.64119	220.704	2.75087	220.704	0.00778352	220.704	-0.0351582
222.513	59.5162	222.513	35.5608	222.513	20.7108	222.513	9.69859	222.513	6.42412	222.513	2.58533	222.513	-0.0659831	222.513	-0.0512673
224.322	58.5999	224.322	34.8155	224.322	20.1499	224.322	9.35879	224.322	6.13935	224.322	2.39007	224.322	-0.140472	224.322	-0.066306
226.131	57.1722	226.131	33.7624	226.131	19.4084	226.131	8.931	226.131	5.7959	226.131	2.1709	226.131	-0.213995	226.131	-0.0800232
227.94	55.2559	227.94	32.4253	227.94	18.5048	227.94	8.42632	227.94	5.40283	227.94	1.93359	227.94	-0.284864	227.94	-0.0921681
229.749	52.8737	229.749	30.8286	229.749	17.4579	229.749	7.85588	229.749	4.96917	229.749	1.68392	229.749	-0.351389	229.749	-0.10249
231.558	50.0577	231.558	29.0003	231.558	16.2879	231.558	7.23138	231.558	4.50421	231.558	1.4276	231.558	-0.412025	231.558	-0.110768
233.367	46.8964	233.367	26.9927	233.367	15.0259	233.367	6.56806	233.367	4.01862	233.367	1.1697	233.367	-0.466088	233.367	-0.116976
235.176	43.5	235.176	24.8672	235.176	13.7069	235.176	5.88253	235.176	3.52361	235.176	0.915087	235.176	-0.513222	235.176	-0.121155
236.985	39.9784	236.985	22.6852	236.985	12.3659	236.985	5.19135	236.985	3.03042	236.985	0.668633	236.985	-0.553069	236.985	-0.12335
238.794	36.4417	238.794	20.5082	238.794	11.0382	238.794	4.51113	238.794	2.55024	238.794	0.435199	238.794	-0.585274	238.794	-0.123603

240.603	32.9996	240.603	18.3974	240.603	9.75846	240.603	3.8584	240.603	2.09427	240.603	0.219634	240.603	-0.609482	240.603	-0.12196
242.412	29.7392	242.412	16.4026	242.412	8.55548	242.412	3.24685	242.412	1.67166	242.412	0.025785	242.412	-0.625575	242.412	-0.118507
244.221	26.7127	244.221	14.5559	244.221	7.44797	244.221	2.68575	244.221	1.2884	244.221	-0.144046	244.221	-0.633791	244.221	-0.113393
246.03	23.9692	246.03	12.8878	246.03	6.45389	246.03	2.18397	246.03	0.950245	246.03	-0.287693	246.03	-0.634401	246.03	-0.106777
247.839	21.5579	247.839	11.4288	247.839	5.59114	247.839	1.75039	247.839	0.662917	247.839	-0.402988	247.839	-0.627677	247.839	-0.0988142
249.648	19.528	249.648	10.2096	249.648	4.87767	249.648	1.39391	249.648	0.432154	249.648	-0.487764	249.648	-0.613888	249.648	-0.0896617
251.457	17.9244	251.457	9.25818	251.457	4.33	251.457	1.12275	251.457	0.263288	251.457	-0.540005	251.457	-0.593292	251.457	-0.079474
253.266	16.7612	253.266	8.58421	253.266	3.95449	253.266	0.940528	253.266	0.158728	253.266	-0.558796	253.266	-0.566044	253.266	-0.0683912
255.075	16.0391	255.075	8.18939	255.075	3.75297	255.075	0.848794	255.075	0.119595	255.075	-0.543706	255.075	-0.532256	255.075	-0.0565469
256.884	15.7584	256.884	8.07536	256.884	3.7273	256.884	0.849096	256.884	0.147004	256.884	-0.494308	256.884	-0.492038	256.884	-0.0440746
258.693	15.9198	258.693	8.24373	258.693	3.8793	258.693	0.94298	258.693	0.242069	258.693	-0.410174	258.693	-0.445502	258.693	-0.0311079
260.503	16.5235	260.503	8.69611	260.503	4.21079	260.503	1.13198	260.503	0.405891	260.503	-0.290884	260.503	-0.392761	260.503	-0.0177808
262.312	17.5676	262.312	9.43123	262.312	4.72114	262.312	1.41606	262.312	0.63829	262.312	-0.136792	262.312	-0.334185	262.312	-0.00426358
264.121	19.0449	264.121	10.4427	264.121	5.40538	264.121	1.79237	264.121	0.936783	264.121	0.0503597	264.121	-0.27061	264.121	0.00920829
265.93	20.9483	265.93	11.7235	265.93	6.25806	265.93	2.25779	265.93	1.29864	265.93	0.268681	265.93	-0.202916	265.93	0.0223924
267.739	23.2701	267.739	13.2667	267.739	7.27373	267.739	2.80918	267.739	1.72115	267.739	0.516284	267.739	-0.131986	267.739	0.0350463
269.548	26.003	269.548	15.0654	269.548	8.44695	269.548	3.44339	269.548	2.20157	269.548	0.791279	269.548	-0.0587021	269.548	0.0469277
271.357	29.1342	271.357	17.1093	271.357	9.77018	271.357	4.15617	271.357	2.73634	271.357	1.09129	271.357	0.0159483	271.357	0.0577913
273.166	32.6036	273.166	19.3595	273.166	11.2177	273.166	4.9334	273.166	3.31451	273.166	1.40973	273.166	0.09006	273.166	0.0673673
274.975	36.3265	274.975	21.7621	274.975	12.7542	274.975	5.7559	274.975	3.92136	274.975	1.73782	274.975	0.161256	274.975	0.075373
276.784	40.2183	276.784	24.2634	276.784	14.3447	276.784	6.60445	276.784	4.54211	276.784	2.06679	276.784	0.227153	276.784	0.0815259
278.593	44.1944	278.593	26.8095	278.593	15.9537	278.593	7.45984	278.593	5.16201	278.593	2.38784	278.593	0.285372	278.593	0.0855432
280.402	48.1701	280.402	29.3464	280.402	17.5462	280.402	8.30284	280.402	5.76628	280.402	2.6922	280.402	0.333534	280.402	0.0871433
282.211	52.0611	282.211	31.8192	282.211	19.0861	282.211	9.11374	282.211	6.34019	282.211	2.97165	282.211	0.369805	282.211	0.0862026
284.02	55.7847	284.02	34.1702	284.02	20.5358	284.02	9.87178	284.02	6.86903	284.02	3.21918	284.02	0.393495	284.02	0.0829295
285.829	59.2578	285.829	36.3416	285.829	21.8577	285.829	10.5561	285.829	7.33809	285.829	3.42794	285.829	0.404058	285.829	0.0775741
287.638	62.3978	287.638	38.2755	287.638	23.0138	287.638	11.1458	287.638	7.73269	287.638	3.59105	287.638	0.400947	287.638	0.0703864
289.447	65.1218	289.447	39.9139	289.447	23.9665	289.447	11.62	289.447	8.03811	289.447	3.70166	289.447	0.383617	289.447	0.0616165
291.256	67.3497	291.256	41.2016	291.256	24.6801	291.256	11.9591	291.256	8.24071	291.256	3.75355	291.256	0.351698	291.256	0.0515248
293.065	69.0289	293.065	42.1101	293.065	25.1405	293.065	12.1576	293.065	8.33788	293.065	3.74715	293.065	0.306706	293.065	0.0404806
294.874	70.1237	294.874	42.6268	294.874	25.3465	294.874	12.2181	294.874	8.33359	294.874	3.68689	294.874	0.25128	294.874	0.0289182
296.683	70.5983	296.683	42.7396	296.683	25.2972	296.683	12.1435	296.683	8.23195	296.683	3.57726	296.683	0.188078	296.683	0.0172727
298.492	70.4172	298.492	42.4363	298.492	24.9918	298.492	11.9366	298.492	8.03701	298.492	3.42276	298.492	0.119755	298.492	0.00597929
300.302	69.5447	300.302	41.7048	300.302	24.4292	300.302	11.6002	300.302	7.75288	300.302	3.22786	300.302	0.0489676	300.302	-0.00452687
302.111	67.9751	302.111	40.5503	302.111	23.6182	302.111	11.1416	302.111	7.38645	302.111	2.99807	302.111	-0.0218291	302.111	-0.0138509
303.92	65.7748	303.92	39.0216	303.92	22.5913	303.92	10.5788	303.92	6.9515	303.92	2.74135	303.92	-0.0906668	303.92	-0.0216964
305.729	63.0217	305.729	37.1734	305.729	21.3846	305.729	9.93127	305.729	6.46284	305.729	2.46604	305.729	-0.155651	305.729	-0.0277816
307.538	59.7934	307.538	35.0609	307.538	20.034	307.538	9.21874	307.538	5.93528	307.538	2.18049	307.538	-0.214888	307.538	-0.031825
309.347	56.1674	309.347	32.739	309.347	18.5757	309.347	8.46078	309.347	5.38365	309.347	1.89303	309.347	-0.266482	309.347	-0.0335448
311.156	52.2232	311.156	30.2632	311.156	17.0456	311.156	7.67688	311.156	4.82258	311.156	1.61183	311.156	-0.308617	311.156	-0.0326783
312.965	48.0631	312.965	27.6943	312.965	15.48	312.965	6.88511	312.965	4.26469	312.965	1.34291	312.965	-0.340466	312.965	-0.029205
314.774	43.8051	314.774	25.0971	314.774	13.9152	314.774	6.10253	314.774	3.72114	314.774	1.09081	314.774	-0.361895	314.774	-0.0232726
316.583	39.5677	316.583	22.5366	316.583	12.3877	316.583	5.3462	316.583	3.20307	316.583	0.860026	316.583	-0.372781	316.583	-0.0150325
318.392	35.4694	318.392	20.0774	318.392	10.9337	318.392	4.63315	318.392	2.72164	318.392	0.655054	318.392	-0.373001	318.392	-0.00463577
320.201	31.6286	320.201	17.7845	320.201	9.58976	320.201	3.98044	320.201	2.28797	320.201	0.480396	320.201	-0.362433	320.201	0.0077662
322.01	28.1414	322.01	15.7109	322.01	8.38545	322.01	3.40202	322.01	1.91108	322.01	0.339493	322.01	-0.34123	322.01	0.0219761

323.819	25.0404	323.819	13.8761	323.819	7.33134	323.819	2.90288	323.819	1.59381	323.819	0.232743	323.819	-0.310335	323.819	0.0376638
325.628	22.3463	325.628	12.2936	325.628	6.43457	325.628	2.48647	325.628	1.3379	325.628	0.160002	325.628	-0.270831	325.628	0.0544758
327.437	20.0801	327.437	10.9768	327.437	5.70226	327.437	2.1562	327.437	1.14511	327.437	0.121127	327.437	-0.2238	327.437	0.0720584
329.246	18.2628	329.246	9.93905	329.246	5.14155	329.246	1.91549	329.246	1.01718	329.246	0.115974	329.246	-0.170328	329.246	0.0900578
331.055	16.9141	331.055	9.19303	331.055	4.7591	331.055	1.76752	331.055	0.955687	331.055	0.144317	331.055	-0.111495	331.055	0.108124
332.864	16.0346	332.864	8.73839	332.864	4.55417	332.864	1.71138	332.864	0.959351	332.864	0.204639	332.864	-0.0483533	332.864	0.125964
334.673	15.6092	334.673	8.56437	334.673	4.52009	334.673	1.74291	334.673	1.02462	334.673	0.294384	334.673	0.0180692	334.673	0.14333
336.482	15.6227	336.482	8.65989	336.482	4.65001	336.482	1.85784	336.482	1.14786	336.482	0.410965	336.482	0.0867451	336.482	0.159978
338.291	16.0597	338.291	9.01392	338.291	4.93709	338.291	2.0519	338.291	1.32547	338.291	0.551798	338.291	0.156647	338.291	0.17566
340.101	16.9048	340.101	9.61537	340.101	5.37446	340.101	2.32085	340.101	1.55381	340.101	0.714295	340.101	0.226748	340.101	0.190131
341.91	18.1275	341.91	10.4434	341.91	5.94814	341.91	2.65669	341.91	1.82645	341.91	0.894278	341.91	0.29554	341.91	0.203054
343.719	19.6459	343.719	11.4439	343.719	6.61994	343.719	3.03891	343.719	2.12749	343.719	1.08218	343.719	0.359883	343.719	0.213778
345.528	21.3672	345.528	12.5559	345.528	7.34655	345.528	3.44429	345.528	2.43899	345.528	1.26728	345.528	0.416295	345.528	0.221586
347.337	23.1987	347.337	13.7182	347.337	8.08466	347.337	3.84965	347.337	2.74303	347.337	1.43887	347.337	0.461292	347.337	0.225763
349.146	25.0475	349.146	14.8697	349.146	8.79096	349.146	4.23178	349.146	3.02167	349.146	1.58625	349.146	0.491391	349.146	0.225592
350.955	26.8237	350.955	15.9514	350.955	9.42363	350.955	4.56831	350.955	3.25767	350.955	1.69912	350.955	0.503283	350.955	0.220398
352.764	28.4941	352.764	16.9434	352.764	9.97091	352.764	4.85353	352.764	3.44731	352.764	1.77615	352.764	0.497186	352.764	0.210348
354.573	30.0783	354.573	17.8626	354.573	10.449	354.573	5.09724	354.573	3.59948	354.573	1.82423	354.573	0.476597	354.573	0.196388
356.382	31.5977	356.382	18.7271	356.382	10.8753	356.382	5.3098	356.382	3.72355	356.382	1.85061	356.382	0.44514	356.382	0.179496
358.191	33.074	358.191	19.5553	358.191	11.267	358.191	5.50161	358.191	3.82888	358.191	1.86252	358.191	0.406438	358.191	0.160649
360	34.5287	360	20.3652	360	11.6414	360	5.68304	360	3.92484	360	1.8672	360	0.364112	360	0.140826

1B- CO_2

angle	R_e - 0.3	angle	R_e - 0.15	angle	R_e	angle	R_e + 0.15	angle	R_e + 0.3	angle	R_e + 0.5	angle	R_e + 1	angle	R_e + 2
5	26.4939	5	15.2438	5	8.6654	5	5.0956	5	2.90715	5	1.409	5	0.376581	5	0.201556
6.78392	25.2634	6.78392	14.3251	6.78392	7.97708	6.78392	4.60047	6.78392	2.51916	6.78392	1.12696	6.78392	0.241968	6.78392	0.160411
8.56784	24.0298	8.56784	13.406	8.56784	7.28954	8.56784	4.10602	8.56784	2.13215	8.56784	0.8459	8.56784	0.107862	8.56784	0.119341
10.3518	22.79	10.3518	12.4861	10.3518	6.60357	10.3518	3.61294	10.3518	1.74711	10.3518	0.566782	10.3518	-0.0252303	10.3518	0.0784213
12.1357	21.5408	12.1357	11.5649	12.1357	5.91997	12.1357	3.12189	12.1357	1.36502	12.1357	0.290578	12.1357	-0.156802	12.1357	0.037726
13.9196	20.2791	13.9196	10.6421	13.9196	5.2395	13.9196	2.63355	13.9196	0.986872	13.9196	0.0182622	13.9196	-0.286348	13.9196	-0.00266975
15.7035	19.0018	15.7035	9.71731	15.7035	4.56297	15.7035	2.14861	15.7035	0.613641	15.7035	-0.249195	15.7035	-0.413359	15.7035	-0.042691
17.4874	17.7058	17.4874	8.79005	17.4874	3.89115	17.4874	1.66775	17.4874	0.246315	17.4874	-0.510822	17.4874	-0.53733	17.4874	-0.0822629
19.2714	16.388	19.2714	7.85994	19.2714	3.22484	19.2714	1.19165	19.2714	-0.114123	19.2714	-0.765646	19.2714	-0.657754	19.2714	-0.121311
21.0553	15.0453	21.0553	6.92658	21.0553	2.56481	21.0553	0.720972	21.0553	-0.466689	21.0553	-1.0127	21.0553	-0.774123	21.0553	-0.159759
22.8392	13.6745	22.8392	5.98956	22.8392	1.91186	22.8392	0.256411	22.8392	-0.810399	22.8392	-1.251	22.8392	-0.885932	22.8392	-0.197533
24.6231	12.2725	24.6231	5.04848	24.6231	1.26677	24.6231	-0.201357	24.6231	-1.14427	24.6231	-1.47959	24.6231	-0.992674	24.6231	-0.234559
26.407	10.8381	26.407	4.10389	26.407	0.630764	26.407	-0.6514	26.407	-1.46724	26.407	-1.69751	26.407	-1.09388	26.407	-0.270755
28.191	9.38558	28.191	3.16385	28.191	0.00839888	28.191	-1.09085	28.191	-1.77769	28.191	-1.90398	28.191	-1.18933	28.191	-0.306001
29.9749	7.93591	29.9749	2.23987	29.9749	-0.594222	29.9749	-1.51594	29.9749	-2.07374	29.9749	-2.09833	29.9749	-1.27895	29.9749	-0.340156
31.7588	6.51028	31.7588	1.34347	31.7588	-1.17099	31.7588	-1.92289	31.7588	-2.35351	31.7588	-2.27984	31.7588	-1.36265	31.7588	-0.373081
33.5427	5.12986	33.5427	0.486164	33.5427	-1.71578	33.5427	-2.30794	33.5427	-2.61511	33.5427	-2.44783	33.5427	-1.44036	33.5427	-0.404635
35.3266	3.8158	35.3266	-0.320513	35.3266	-2.2225	35.3266	-2.66731	35.3266	-2.85667	35.3266	-2.6016	35.3266	-1.51197	35.3266	-0.434679
37.1106	2.58927	37.1106	-1.06504	37.1106	-2.68503	37.1106	-2.99723	37.1106	-3.07629	37.1106	-2.74045	37.1106	-1.57741	37.1106	-0.463071
38.8945	1.47141	38.8945	-1.7359	38.8945	-3.09725	38.8945	-3.29394	38.8945	-3.27209	38.8945	-2.86371	38.8945	-1.6366	38.8945	-0.489672
40.6784	0.483393	40.6784	-2.32155	40.6784	-3.45306	40.6784	-3.55365	40.6784	-3.44219	40.6784	-2.97066	40.6784	-1.68944	40.6784	-0.514342

42.4623	-0.353626	42.4623	-2.81049	42.4623	-3.74635	42.4623	-3.7726	42.4623	-3.58472	42.4623	-3.06062	42.4623	-1.73586	42.4623	-0.53694
44.2462	-1.01849	44.2462	-3.19118	44.2462	-3.971	44.2462	-3.94701	44.2462	-3.69777	44.2462	-3.13289	44.2462	-1.77576	44.2462	-0.557326
46.0302	-1.49116	46.0302	-3.45274	46.0302	-4.12125	46.0302	-4.07332	46.0302	-3.77959	46.0302	-3.18682	46.0302	-1.80908	46.0302	-0.575365
47.8141	-1.77015	47.8141	-3.5948	47.8141	-4.19718	47.8141	-4.15135	47.8141	-3.83018	47.8141	-3.22246	47.8141	-1.83576	47.8141	-0.590994
49.598	-1.86908	49.598	-3.62553	49.598	-4.20357	49.598	-4.18367	49.598	-3.85099	49.598	-3.24044	49.598	-1.85582	49.598	-0.604212
51.3819	-1.80203	51.3819	-3.55338	51.3819	-4.14538	51.3819	-4.17293	51.3819	-3.84352	51.3819	-3.24139	51.3819	-1.86925	51.3819	-0.615016
53.1658	-1.58306	53.1658	-3.3868	53.1658	-4.02756	53.1658	-4.1218	53.1658	-3.80929	53.1658	-3.22595	53.1658	-1.87605	53.1658	-0.623406
54.9497	-1.22624	54.9497	-3.13423	54.9497	-3.85506	54.9497	-4.03293	54.9497	-3.74979	54.9497	-3.19476	54.9497	-1.87624	54.9497	-0.629383
56.7337	-0.745663	56.7337	-2.80412	56.7337	-3.63281	56.7337	-3.90898	56.7337	-3.66651	56.7337	-3.14846	56.7337	-1.86981	56.7337	-0.632944
58.5176	-0.155384	58.5176	-2.4049	58.5176	-3.36577	58.5176	-3.75261	58.5176	-3.56097	58.5176	-3.08769	58.5176	-1.85676	58.5176	-0.63409
60.3015	0.530521	60.3015	-1.94502	60.3015	-3.05888	60.3015	-3.56646	60.3015	-3.43467	60.3015	-3.01309	60.3015	-1.83709	60.3015	-0.63282
62.0854	1.29798	62.0854	-1.43292	62.0854	-2.71709	62.0854	-3.3532	62.0854	-3.2891	62.0854	-2.9253	62.0854	-1.81082	62.0854	-0.629132
63.8693	2.13292	63.8693	-0.877045	63.8693	-2.34534	63.8693	-3.11549	63.8693	-3.12577	63.8693	-2.82496	63.8693	-1.77793	63.8693	-0.623027
65.6533	3.02125	65.6533	-0.285858	65.6533	-1.94861	65.6533	-2.856	65.6533	-2.9462	65.6533	-2.71271	65.6533	-1.73845	65.6533	-0.614504
67.4372	3.94788	67.4372	0.331329	67.4372	-1.53262	67.4372	-2.57823	67.4372	-2.75257	67.4372	-2.58974	67.4372	-1.69266	67.4372	-0.603635
69.2211	4.89633	69.2211	0.96399	69.2211	-1.10424	69.2211	-2.28689	69.2211	-2.54803	69.2211	-2.458	69.2211	-1.64129	69.2211	-0.590586
71.005	5.85001	71.005	1.60151	71.005	-0.670402	71.005	-1.98676	71.005	-2.33581	71.005	-2.31949	71.005	-1.58509	71.005	-0.575532
72.7889	6.79231	72.7889	2.23326	72.7889	-0.238035	72.7889	-1.68262	72.7889	-2.11913	72.7889	-2.17621	72.7889	-1.52481	72.7889	-0.558649
74.5729	7.70664	74.5729	2.84863	74.5729	0.185923	74.5729	-1.37925	74.5729	-1.9012	74.5729	-2.03016	74.5729	-1.4612	74.5729	-0.540112
76.3568	8.5764	76.3568	3.437	76.3568	0.594534	76.3568	-1.08145	76.3568	-1.68526	76.3568	-1.88334	76.3568	-1.395	76.3568	-0.520096
78.1407	9.385	78.1407	3.98775	78.1407	0.980864	78.1407	-0.793991	78.1407	-1.47451	78.1407	-1.73776	78.1407	-1.32697	78.1407	-0.498776
79.9246	10.1158	79.9246	4.49026	79.9246	1.33798	79.9246	-0.521666	79.9246	-1.2722	79.9246	-1.59542	79.9246	-1.25786	79.9246	-0.476327
81.7085	10.7523	81.7085	4.93392	81.7085	1.65894	81.7085	-0.269258	81.7085	-1.08152	81.7085	-1.45832	81.7085	-1.18842	81.7085	-0.452924
83.4925	11.2779	83.4925	5.3081	83.4925	1.93681	83.4925	-0.0415501	83.4925	-0.905721	83.4925	-1.32846	83.4925	-1.11939	83.4925	-0.428743
85.2764	11.6759	85.2764	5.60221	85.2764	2.16467	85.2764	0.156678	85.2764	-0.748003	85.2764	-1.20784	85.2764	-1.05153	85.2764	-0.403958
87.0603	11.9404	87.0603	5.81233	87.0603	2.33982	87.0603	0.323154	87.0603	-0.609985	87.0603	-1.09756	87.0603	-0.985356	87.0603	-0.378728
88.8442	12.0922	88.8442	5.9515	88.8442	2.4703	88.8442	0.461959	88.8442	-0.489221	88.8442	-0.996461	88.8442	-0.920838	88.8442	-0.353169
90.6281	12.1563	90.6281	6.0354	90.6281	2.56583	90.6281	0.578168	90.6281	-0.382628	90.6281	-0.903021	90.6281	-0.857845	90.6281	-0.32739
92.4121	12.1576	92.4121	6.07972	92.4121	2.63611	92.4121	0.676852	92.4121	-0.287123	92.4121	-0.815717	92.4121	-0.796248	92.4121	-0.3015
94.196	12.1212	94.196	6.10015	94.196	2.69086	94.196	0.763085	94.196	-0.199626	94.196	-0.733028	94.196	-0.735921	94.196	-0.275609
95.9799	12.0721	95.9799	6.11238	95.9799	2.7398	95.9799	0.841941	95.9799	-0.117053	95.9799	-0.653433	95.9799	-0.676734	95.9799	-0.249825
97.7638	12.0352	97.7638	6.13207	97.7638	2.79262	97.7638	0.918491	97.7638	-0.0363232	97.7638	-0.575411	97.7638	-0.618561	97.7638	-0.224259
99.5477	12.0355	99.5477	6.17493	99.5477	2.85905	99.5477	0.99781	99.5477	0.0456456	99.5477	-0.497442	99.5477	-0.561273	99.5477	-0.199019
101.332	12.098	101.332	6.25664	101.332	2.94879	101.332	1.08497	101.332	0.131935	101.332	-0.418004	101.332	-0.504743	101.332	-0.174214
103.116	12.2477	103.116	6.39288	103.116	3.07157	103.116	1.18504	103.116	0.225628	103.116	-0.335576	103.116	-0.448843	103.116	-0.149954
104.899	12.5096	104.899	6.59934	104.899	3.23708	104.899	1.30311	104.899	0.329806	104.899	-0.248637	104.899	-0.393444	104.899	-0.126349
106.683	12.9065	106.683	6.89028	106.683	3.45411	106.683	1.44394	106.683	0.447325	106.683	-0.155823	106.683	-0.338474	106.683	-0.103509
108.467	13.451	108.467	7.27319	108.467	3.72695	108.467	1.61101	108.467	0.579973	108.467	-0.0565108	108.467	-0.28411	108.467	-0.0815615
110.251	14.1525	110.251	7.75357	110.251	4.05862	110.251	1.80734	110.251	0.729222	110.251	0.0497036	110.251	-0.230606	110.251	-0.0606345
112.035	15.0205	112.035	8.3369	112.035	4.45209	112.035	2.03599	112.035	0.896542	112.035	0.163224	112.035	-0.178217	112.035	-0.0408578
113.819	16.0644	113.819	9.0287	113.819	4.91036	113.819	2.3	113.819	1.08341	113.819	0.284453	113.819	-0.127197	113.819	-0.0223607
115.603	17.2939	115.603	9.83444	115.603	5.43642	115.603	2.60243	115.603	1.29128	115.603	0.413795	115.603	-0.0778004	115.603	-0.00527237
117.387	18.7183	117.387	10.7596	117.387	6.03326	117.387	2.94633	117.387	1.52165	117.387	0.551654	117.387	-0.0302801	117.387	0.0102777
119.171	20.3472	119.171	11.8098	119.171	6.70388	119.171	3.33473	119.171	1.77597	119.171	0.698433	119.171	0.0151094	119.171	0.0241602
120.955	22.1899	120.955	12.9903	120.955	7.45127	120.955	3.77069	120.955	2.05572	120.955	0.854535	120.955	0.0581139	120.955	0.0362459
122.739	24.2561	122.739	14.3068	122.739	8.27841	122.739	4.25726	122.739	2.36237	122.739	1.02037	122.739	0.0984794	122.739	0.0464053

124.523	26.5552	124.523	15.7647	124.523	9.1883	124.523	4.79748	124.523	2.69739	124.523	1.19633	124.523	0.135952	124.523	0.0545092
126.307	29.0916	126.307	17.3664	126.307	10.182	126.307	5.39309	126.307	3.06148	126.307	1.38247	126.307	0.170256	126.307	0.0604432
128.09	31.8225	128.09	19.0843	128.09	11.2422	128.09	6.03379	128.09	3.44832	128.09	1.57556	128.09	0.200917	128.09	0.0642299
129.874	34.6794	129.874	20.8751	129.874	12.3421	129.874	6.70273	129.874	3.84774	129.874	1.7706	129.874	0.227354	129.874	0.0659666
131.658	37.594	131.658	22.6951	131.658	13.4545	131.658	7.38303	131.658	4.24955	131.658	1.96257	131.658	0.248985	131.658	0.0657509
133.442	40.4976	133.442	24.5008	133.442	14.5524	133.442	8.05779	133.442	4.64357	133.442	2.14646	133.442	0.265226	133.442	0.0636807
135.226	43.3217	135.226	26.2487	135.226	15.6086	135.226	8.7101	135.226	5.0196	135.226	2.31724	135.226	0.275496	135.226	0.0598535
137.01	45.9977	137.01	27.895	137.01	16.5961	137.01	9.32309	137.01	5.36746	137.01	2.46989	137.01	0.279211	137.01	0.0543673
138.794	48.457	138.794	29.3961	138.794	17.4878	138.794	9.87985	138.794	5.67695	138.794	2.59941	138.794	0.275789	138.794	0.0473198
140.578	50.6312	140.578	30.7086	140.578	18.2565	140.578	10.3635	140.578	5.9379	140.578	2.70076	140.578	0.264648	140.578	0.0388087
142.362	52.4515	142.362	31.7888	142.362	18.8753	142.362	10.7571	142.362	6.14009	142.362	2.76894	142.362	0.245205	142.362	0.0289318
144.146	53.8496	144.146	32.5931	144.146	19.317	144.146	11.0438	144.146	6.27336	144.146	2.79892	144.146	0.216878	144.146	0.0177868
145.93	54.7592	145.93	33.0795	145.93	19.5556	145.93	11.2074	145.93	6.32792	145.93	2.78592	145.93	0.179134	145.93	0.00547567
147.714	55.1657	147.714	33.2401	147.714	19.587	147.714	11.2449	147.714	6.30262	147.714	2.72993	147.714	0.132475	147.714	-0.00781311
149.497	55.1031	149.497	33.099	149.497	19.4278	149.497	11.166	149.497	6.20448	149.497	2.63549	149.497	0.0783877	149.497	-0.0218091
151.281	54.6072	151.281	32.6816	151.281	19.0957	151.281	10.9811	151.281	6.04083	151.281	2.50729	151.281	0.0183935	151.281	-0.0362385
153.065	53.714	153.065	32.0132	153.065	18.6081	153.065	10.7002	153.065	5.81902	153.065	2.35004	153.065	-0.0459846	153.065	-0.0508278
154.849	52.4593	154.849	31.1194	154.849	17.9825	154.849	10.3338	154.849	5.54638	154.849	2.16846	154.849	-0.113224	154.849	-0.0653033
156.633	50.8789	156.633	30.0256	156.633	17.2364	156.633	9.89197	156.633	5.23024	156.633	1.96723	156.633	-0.181801	156.633	-0.0793912
158.417	49.0089	158.417	28.7571	158.417	16.3873	158.417	9.38497	158.417	4.87794	158.417	1.75108	158.417	-0.250193	158.417	-0.0928178
160.201	46.885	160.201	27.3393	160.201	15.4528	160.201	8.82305	160.201	4.49682	160.201	1.52471	160.201	-0.316878	160.201	-0.10531
161.985	44.5431	161.985	25.7977	161.985	14.4503	161.985	8.21643	161.985	4.09422	161.985	1.29282	161.985	-0.380333	161.985	-0.116593
163.769	42.0191	163.769	24.1577	163.769	13.3973	163.769	7.57535	163.769	3.67747	163.769	1.06012	163.769	-0.439034	163.769	-0.126394
165.553	39.3491	165.553	22.4448	165.553	12.3114	165.553	6.91005	165.553	3.2539	165.553	0.831302	165.553	-0.491468	165.553	-0.134441
167.337	36.5745	167.337	20.6861	167.337	11.2102	167.337	6.2311	167.337	2.83045	167.337	0.610241	167.337	-0.536687	167.337	-0.140598
169.121	33.7463	169.121	18.912	169.121	10.1113	169.121	5.54963	169.121	2.41342	169.121	0.399459	169.121	-0.574683	169.121	-0.144955
170.905	30.9165	170.905	17.1531	170.905	9.03261	170.905	4.87681	170.905	2.00904	170.905	0.20135	170.905	-0.605537	170.905	-0.147623
172.688	28.1368	172.688	15.44	172.688	7.99185	172.688	4.22382	172.688	1.62354	172.688	0.0183063	172.688	-0.629328	172.688	-0.148711
174.472	25.459	174.472	13.8033	174.472	7.00679	174.472	3.60182	174.472	1.26315	174.472	-0.147277	174.472	-0.646135	174.472	-0.14833
176.256	22.935	176.256	12.2736	176.256	6.09519	176.256	3.02201	176.256	0.9341	176.256	-0.293006	176.256	-0.656039	176.256	-0.146591
178.04	20.6166	178.04	10.8814	178.04	5.27483	178.04	2.49555	178.04	0.642631	178.04	-0.416487	178.04	-0.659119	178.04	-0.143603
179.824	18.5556	179.824	9.6574	179.824	4.56345	179.824	2.03362	179.824	0.394972	179.824	-0.515326	179.824	-0.655455	179.824	-0.139478
181.608	16.804	181.608	8.63216	181.608	3.97883	181.608	1.64739	181.608	0.197355	181.608	-0.587129	181.608	-0.645126	181.608	-0.134326
183.392	15.4134	183.392	7.83628	183.392	3.53874	183.392	1.34805	183.392	0.0560112	183.392	-0.629502	183.392	-0.628213	183.392	-0.128256
185.176	14.4357	185.176	7.30034	185.176	3.26093	185.176	1.14676	185.176	-0.0228278	185.176	-0.640052	185.176	-0.604796	185.176	-0.121381
186.96	13.9059	186.96	7.04457	186.96	3.15686	186.96	1.05092	186.96	-0.0354132	186.96	-0.6175	186.96	-0.575146	186.96	-0.113836
188.744	13.8083	188.744	7.05831	188.744	3.21915	188.744	1.05662	188.744	0.0146003	188.744	-0.563892	188.744	-0.540115	188.744	-0.105841
190.528	14.118	190.528	7.32517	190.528	3.43692	190.528	1.1579	190.528	0.122183	190.528	-0.481893	190.528	-0.500658	190.528	-0.097629
192.312	14.8101	192.312	7.82874	192.312	3.79932	192.312	1.34874	192.312	0.282306	192.312	-0.374167	192.312	-0.457732	192.312	-0.0894334
194.095	15.8595	194.095	8.55264	194.095	4.29546	194.095	1.62318	194.095	0.48994	194.095	-0.243376	194.095	-0.412294	194.095	-0.0814875
195.879	17.2414	195.879	9.48046	195.879	4.91448	195.879	1.97522	195.879	0.740055	195.879	-0.092186	195.879	-0.3653	195.879	-0.0740249
197.663	18.9308	197.663	10.5958	197.663	5.6455	197.663	2.39887	197.663	1.02762	197.663	0.0767406	197.663	-0.317707	197.663	-0.067279
199.447	20.9028	199.447	11.8823	199.447	6.47766	199.447	2.88814	199.447	1.34761	199.447	0.260739	199.447	-0.270471	199.447	-0.0614833
201.231	23.1324	201.231	13.3235	201.231	7.40008	201.231	3.43706	201.231	1.69499	201.231	0.457147	201.231	-0.224549	201.231	-0.0568711
203.015	25.5946	203.015	14.9031	203.015	8.40189	203.015	4.03962	203.015	2.06474	203.015	0.663298	203.015	-0.180898	203.015	-0.0536758
204.799	28.2646	204.799	16.6045	204.799	9.47222	204.799	4.68984	204.799	2.45182	204.799	0.876531	204.799	-0.140474	204.799	-0.052131

206.583	31.1121	206.583	18.4084	206.583	10.5984	206.583	5.38044	206.583	2.85095	206.583	1.09391	206.583	-0.104194	206.583	-0.052438
208.367	34.0785	208.367	20.2776	208.367	11.7572	208.367	6.09687	208.367	3.25544	208.367	1.311	208.367	-0.0727639	208.367	-0.054618
210.151	37.0948	210.151	22.1686	210.151	12.9221	210.151	6.82203	210.151	3.65808	210.151	1.52282	210.151	-0.0468097	210.151	-0.0586294
211.935	40.0921	211.935	24.0381	211.935	14.0663	211.935	7.53882	211.935	4.05169	211.935	1.72441	211.935	-0.0269599	211.935	-0.0644305
213.719	43.0015	213.719	25.8427	213.719	15.1631	213.719	8.23015	213.719	4.42908	213.719	1.9108	213.719	-0.0138422	213.719	-0.0719794
215.503	45.7541	215.503	27.5392	215.503	16.1859	215.503	8.87892	215.503	4.78304	215.503	2.07701	215.503	-0.00808459	215.503	-0.0812345
217.286	48.281	217.286	29.0842	217.286	17.1078	217.286	9.46803	217.286	5.10638	217.286	2.21808	217.286	-0.0103149	217.286	-0.092154
219.07	50.5132	219.07	30.4342	219.07	17.9022	219.07	9.98039	219.07	5.39191	219.07	2.32904	219.07	-0.0211611	219.07	-0.104696
220.854	52.382	220.854	31.546	220.854	18.5424	220.854	10.3989	220.854	5.63244	220.854	2.40491	220.854	-0.041251	220.854	-0.118819
222.638	53.8183	222.638	32.3762	222.638	19.0017	222.638	10.7064	222.638	5.82076	222.638	2.44073	222.638	-0.0712126	222.638	-0.134482
224.422	54.7533	224.422	32.8814	224.422	19.2534	224.422	10.886	224.422	5.94969	224.422	2.43153	224.422	-0.111674	224.422	-0.151641
226.206	55.1241	226.206	33.0222	226.206	19.2733	226.206	10.9219	226.206	6.01256	226.206	2.37287	226.206	-0.163152	226.206	-0.170247
227.99	54.9361	227.99	32.8037	227.99	19.0655	227.99	10.8163	227.99	6.00857	227.99	2.26632	227.99	-0.22493	227.99	-0.190142
229.774	54.2376	229.774	32.2586	229.774	18.652	229.774	10.5822	229.774	5.94062	229.774	2.11723	229.774	-0.295511	229.774	-0.2111
231.558	53.0776	231.558	31.4204	231.558	18.0551	231.558	10.233	231.558	5.81168	231.558	1.93102	231.558	-0.373387	231.558	-0.232897
233.342	51.5049	233.342	30.3224	233.342	17.2969	233.342	9.78175	233.342	5.62471	233.342	1.7131	233.342	-0.457051	233.342	-0.255307
235.126	49.5686	235.126	28.9979	235.126	16.3997	235.126	9.24187	235.126	5.38268	235.126	1.46887	235.126	-0.544994	235.126	-0.278104
236.91	47.3175	236.91	27.4803	236.91	15.3857	236.91	8.62657	236.91	5.08855	236.91	1.20375	236.91	-0.63571	236.91	-0.301063
238.693	44.8006	238.693	25.8029	238.693	14.2772	238.693	7.9491	238.693	4.74528	238.693	0.923138	238.693	-0.727688	238.693	-0.323958
240.477	42.0669	240.477	23.999	240.477	13.0964	240.477	7.22274	240.477	4.35582	240.477	0.632458	240.477	-0.819423	240.477	-0.346562
242.261	39.1653	242.261	22.102	242.261	11.8656	242.261	6.46073	242.261	3.92316	242.261	0.337114	242.261	-0.909406	242.261	-0.368652
244.045	36.1448	244.045	20.1452	244.045	10.6069	244.045	5.67634	244.045	3.45024	244.045	0.0425183	244.045	-0.996128	244.045	-0.390001
245.829	33.054	245.829	18.1617	245.829	9.34243	245.829	4.88273	245.829	2.94015	245.829	-0.24599	245.829	-1.07811	245.829	-0.410387
247.613	29.9347	247.613	16.1781	247.613	8.08886	247.613	4.09021	247.613	2.39901	247.613	-0.524986	247.613	-1.15461	247.613	-0.429687
249.397	26.8211	249.397	14.2137	249.397	6.85698	249.397	3.30603	249.397	1.8363	249.397	-0.793144	249.397	-1.22568	249.397	-0.447889
251.181	23.7471	251.181	12.2877	251.181	5.65728	251.181	2.53725	251.181	1.26166	251.181	-1.04924	251.181	-1.29145	251.181	-0.464983
252.965	20.7463	252.965	10.4189	252.965	4.50026	252.965	1.79094	252.965	0.684755	252.965	-1.29207	252.965	-1.352	252.965	-0.480962
254.749	17.8526	254.749	8.62649	254.749	3.3964	254.749	1.07418	254.749	0.11522	254.749	-1.52041	254.749	-1.40746	254.749	-0.495818
256.533	15.0998	256.533	6.92943	256.533	2.35621	256.533	0.394035	256.533	-0.437292	256.533	-1.73303	256.533	-1.45792	256.533	-0.509543
258.317	12.5217	258.317	5.34677	258.317	1.39018	258.317	-0.24242	258.317	-0.963136	258.317	-1.92872	258.317	-1.50349	258.317	-0.522128
260.101	10.152	260.101	3.89752	260.101	0.508804	260.101	-0.828116	260.101	-1.45266	260.101	-2.10627	260.101	-1.54428	260.101	-0.533567
261.884	8.02465	261.884	2.60071	261.884	-0.277425	261.884	-1.35598	261.884	-1.89622	261.884	-2.26445	261.884	-1.58039	261.884	-0.54385
263.668	6.17336	263.668	1.47537	263.668	-0.958011	263.668	-1.81894	263.668	-2.28417	263.668	-2.40204	263.668	-1.61194	263.668	-0.552969
265.452	4.63178	265.452	0.54044	265.452	-1.52251	265.452	-2.20996	265.452	-2.60689	265.452	-2.51784	265.452	-1.63901	265.452	-0.560917
267.236	3.41492	267.236	-0.195842	267.236	-1.96646	267.236	-2.52566	267.236	-2.85953	267.236	-2.61125	267.236	-1.66161	267.236	-0.56765
269.02	2.50197	269.02	-0.745781	269.02	-2.2969	269.02	-2.76976	269.02	-3.04638	269.02	-2.68289	269.02	-1.67949	269.02	-0.573062
270.804	1.86807	270.804	-1.12402	270.804	-2.52217	270.804	-2.94673	270.804	-3.17275	270.804	-2.7335	270.804	-1.69238	270.804	-0.577036
272.588	1.48832	272.588	-1.34519	272.588	-2.65063	272.588	-3.06108	272.588	-3.24397	272.588	-2.76385	272.588	-1.70001	272.588	-0.579456
274.372	1.33786	274.372	-1.42395	274.372	-2.69061	274.372	-3.11731	274.372	-3.26534	274.372	-2.77468	274.372	-1.70212	274.372	-0.580209
276.156	1.39181	276.156	-1.37492	276.156	-2.65046	276.156	-3.11991	276.156	-3.24219	276.156	-2.76673	276.156	-1.69844	276.156	-0.579177
277.94	1.6253	277.94	-1.21276	277.94	-2.53852	277.94	-3.07338	277.94	-3.17984	277.94	-2.74076	277.94	-1.6887	277.94	-0.576247
279.724	2.01344	279.724	-0.952107	279.724	-2.36315	279.724	-2.98222	279.724	-3.08361	279.724	-2.69752	279.724	-1.67263	279.724	-0.571301
281.508	2.53136	281.508	-0.607597	281.508	-2.13269	281.508	-2.85093	281.508	-2.95882	281.508	-2.63776	281.508	-1.64997	281.508	-0.564225
283.291	3.15419	283.291	-0.193873	283.291	-1.85547	283.291	-2.684	283.291	-2.81077	283.291	-2.56223	283.291	-1.62044	283.291	-0.554904
285.075	3.85704	285.075	0.274422	285.075	-1.53986	285.075	-2.48593	285.075	-2.64481	285.075	-2.47168	285.075	-1.58378	285.075	-0.543222
286.859	4.61651	286.859	0.783346	286.859	-1.19394	286.859	-2.26128	286.859	-2.46567	286.859	-2.36706	286.859	-1.53989	286.859	-0.529109

288.643	5.41433	288.643	1.32142	288.643	-0.824975	288.643	-2.01477	288.643	-2.27609	288.643	-2.25003	288.643	-1.48923	288.643	-0.512658
290.427	6.23336	290.427	1.87771	290.427	-0.440013	290.427	-1.7512	290.427	-2.07837	290.427	-2.1224	290.427	-1.43239	290.427	-0.493997
292.211	7.05648	292.211	2.44129	292.211	-0.0461173	292.211	-1.47535	292.211	-1.87482	292.211	-1.98599	292.211	-1.36996	292.211	-0.473254
293.995	7.86655	293.995	3.0012	293.995	0.349655	293.995	-1.19199	293.995	-1.66772	293.995	-1.84261	293.995	-1.30254	293.995	-0.450557
295.779	8.64643	295.779	3.54653	295.779	0.740245	295.779	-0.905915	295.779	-1.45938	295.779	-1.69408	295.779	-1.23072	295.779	-0.426034
297.563	9.37901	297.563	4.06632	297.563	1.11859	297.563	-0.621901	297.563	-1.25209	297.563	-1.54221	297.563	-1.15509	297.563	-0.399812
299.347	10.0471	299.347	4.54966	299.347	1.47764	299.347	-0.344733	299.347	-1.04816	299.347	-1.38881	299.347	-1.07625	299.347	-0.372021
301.131	10.6337	301.131	4.9856	301.131	1.81033	301.131	-0.0791908	301.131	-0.849884	301.131	-1.2357	301.131	-0.994776	301.131	-0.342788
302.915	11.1216	302.915	5.3632	302.915	2.1096	302.915	0.169943	302.915	-0.659556	302.915	-1.08469	302.915	-0.911272	302.915	-0.312241
304.698	11.4936	304.698	5.67154	304.698	2.36839	304.698	0.397885	304.698	-0.479475	304.698	-0.937605	304.698	-0.826328	304.698	-0.280509
306.482	11.7363	306.482	5.90196	306.482	2.58105	306.482	0.600674	306.482	-0.311542	306.482	-0.795992	306.482	-0.740492	306.482	-0.247722
308.266	11.8613	308.266	6.06115	308.266	2.75133	308.266	0.77983	308.266	-0.154975	308.266	-0.659714	308.266	-0.654017	308.266	-0.21404
310.05	11.8902	310.05	6.16209	310.05	2.88681	310.05	0.939126	310.05	-0.00789614	310.05	-0.527925	310.05	-0.567038	310.05	-0.179634
311.834	11.8448	311.834	6.21776	311.834	2.99513	311.834	1.08234	311.834	0.131579	311.834	-0.399781	311.834	-0.479686	311.834	-0.144673
313.618	11.7468	313.618	6.24118	313.618	3.08389	313.618	1.21326	313.618	0.265332	313.618	-0.274437	313.618	-0.392096	313.618	-0.109326
315.402	11.6179	315.402	6.24534	315.402	3.1607	315.402	1.33565	315.402	0.395247	315.402	-0.151047	315.402	-0.3044	315.402	-0.0737647
317.186	11.4798	317.186	6.24324	317.186	3.23319	317.186	1.45331	317.186	0.523207	317.186	-0.0287645	317.186	-0.216731	317.186	-0.0381583
318.97	11.3544	318.97	6.24787	318.97	3.30897	318.97	1.57	318.97	0.651094	318.97	0.0932545	318.97	-0.129222	318.97	-0.0026769
320.754	11.2633	320.754	6.27223	320.754	3.39564	320.754	1.68952	320.754	0.780792	320.754	0.215856	320.754	-0.0420065	320.754	0.0325095
322.538	11.2283	322.538	6.32932	322.538	3.50084	322.538	1.81563	322.538	0.914184	322.538	0.339885	322.538	0.0447835	322.538	0.067231
324.322	11.2711	324.322	6.43214	324.322	3.63217	324.322	1.95212	324.322	1.05315	324.322	0.466187	324.322	0.131015	324.322	0.101318
326.106	11.4123	326.106	6.59299	326.106	3.79679	326.106	2.10255	326.106	1.19943	326.106	0.59551	326.106	0.21652	326.106	0.134594
327.889	11.6576	327.889	6.81452	327.889	3.99568	327.889	2.2674	327.889	1.35276	327.889	0.727244	327.889	0.300668	327.889	0.16681
329.673	12.0014	329.673	7.09234	329.673	4.22528	329.673	2.44487	329.673	1.51139	329.673	0.859787	329.673	0.382486	329.673	0.197663
331.457	12.4381	331.457	7.42188	331.457	4.48192	331.457	2.63316	331.457	1.67354	331.457	0.991514	331.457	0.460992	331.457	0.226846
333.241	12.9619	333.241	7.7986	333.241	4.76194	333.241	2.83043	333.241	1.83745	333.241	1.1208	333.241	0.535207	333.241	0.254056
335.025	13.5672	335.025	8.21793	335.025	5.06167	335.025	3.03485	335.025	2.00133	335.025	1.24602	335.025	0.60415	335.025	0.278986
336.809	14.2481	336.809	8.67532	336.809	5.37745	336.809	3.2446	336.809	2.16342	336.809	1.36556	336.809	0.666841	336.809	0.301332
338.593	14.9992	338.593	9.1662	338.593	5.70561	338.593	3.45785	338.593	2.32194	338.593	1.47778	338.593	0.722299	338.593	0.320788
340.377	15.8145	340.377	9.68603	340.377	6.04249	340.377	3.67276	340.377	2.47512	340.377	1.58106	340.377	0.769543	340.377	0.33705
342.161	16.6884	342.161	10.2302	342.161	6.38442	342.161	3.88752	342.161	2.62117	342.161	1.67378	342.161	0.807594	342.161	0.349811
343.945	17.6152	343.945	10.7943	343.945	6.72774	343.945	4.10029	343.945	2.75833	343.945	1.75431	343.945	0.835471	343.945	0.358768
345.729	18.5892	345.729	11.3736	345.729	7.06884	345.729	4.30928	345.729	2.88486	345.729	1.82107	345.729	0.85222	345.729	0.363624
347.513	19.6049	347.513	11.965	347.513	7.40585	347.513	4.5137	347.513	3.00035	347.513	1.87389	347.513	0.857886	347.513	0.364426
349.296	20.6571	349.296	12.5669	349.296	7.73916	349.296	4.71404	349.296	3.10609	349.296	1.91441	349.296	0.853784	349.296	0.361656
351.08	21.7406	351.08	13.1777	351.08	8.0693	351.08	4.91088	351.08	3.20346	351.08	1.94439	351.08	0.841308	351.08	0.355824
352.864	22.8501	352.864	13.7961	352.864	8.3968	352.864	5.10482	352.864	3.29386	352.864	1.96558	352.864	0.821854	352.864	0.347441
354.648	23.9804	354.648	14.4204	354.648	8.72219	354.648	5.29643	354.648	3.37869	354.648	1.97975	354.648	0.796817	354.648	0.337017
356.432	25.1264	356.432	15.0491	356.432	9.04599	356.432	5.48629	356.432	3.45934	356.432	1.98865	356.432	0.767594	356.432	0.325062
358.216	26.2828	358.216	15.6809	358.216	9.36873	358.216	5.67499	358.216	3.53721	358.216	1.99404	358.216	0.73558	358.216	0.312086
360	27.4444	360	16.3142	360	9.69095	360	5.86311	360	3.61367	360	1.99766	360	0.70217	360	0.2986

2A- CO_2

angle	R_e - 0.3	angle	R_e - 0.15	angle	R_e	angle	R_e + 0.15	angle	R_e + 0.3	angle	R_e + 0.5	angle	R_e + 1	angle	R_e + 2
5	31.4996	5	18.0666	5	10.1791	5	5.68705	5	3.04586	5	1.25199	5	0.10118	5	0.0808765

6.78392	30.0983	6.78392	17.0342	6.78392	9.41489	6.78392	5.13721	6.78392	2.62562	6.78392	0.955347	6.78392	-0.0313371	6.78392	0.0404603
8.56784	28.6927	8.56784	16.0007	8.56784	8.65127	8.56784	4.58813	8.56784	2.20646	8.56784	0.659764	8.56784	-0.163414	8.56784	0.000126394
10.3518	27.2783	10.3518	14.9653	10.3518	7.88874	10.3518	4.04059	10.3518	1.78947	10.3518	0.366296	10.3518	-0.294611	10.3518	-0.040043
12.1357	25.851	12.1357	13.9269	12.1357	7.12785	12.1357	3.49535	12.1357	1.37572	12.1357	0.0760007	12.1357	-0.424488	12.1357	-0.0799656
13.9196	24.4063	13.9196	12.8845	13.9196	6.36915	13.9196	2.95317	13.9196	0.966311	13.9196	-0.210065	13.9196	-0.552606	13.9196	-0.119559
15.7035	22.94	15.7035	11.8372	15.7035	5.61318	15.7035	2.41482	15.7035	0.562311	15.7035	-0.490842	15.7035	-0.678524	15.7035	-0.158742
17.4874	21.4476	17.4874	10.784	17.4874	4.86048	17.4874	1.88107	17.4874	0.164806	17.4874	-0.765275	17.4874	-0.801802	17.4874	-0.19743
19.2714	19.9248	19.2714	9.72383	19.2714	4.11161	19.2714	1.35268	19.2714	-0.22512	19.2714	-1.03231	19.2714	-0.922002	19.2714	-0.235543
21.0553	18.3674	21.0553	8.65576	21.0553	3.3671	21.0553	0.830422	21.0553	-0.606384	21.0553	-1.29088	21.0553	-1.03868	21.0553	-0.272998
22.8392	16.7709	22.8392	7.57881	22.8392	2.62751	22.8392	0.315056	22.8392	-0.977904	22.8392	-1.53993	22.8392	-1.1514	22.8392	-0.309713
24.6231	15.131	24.6231	6.49196	24.6231	1.89339	24.6231	-0.192648	24.6231	-1.3386	24.6231	-1.77841	24.6231	-1.25972	24.6231	-0.345604
26.407	13.4458	26.407	5.39546	26.407	1.16583	26.407	-0.691635	26.407	-1.68729	26.407	-2.00527	26.407	-1.36319	26.407	-0.380587
28.191	11.732	28.191	4.29881	28.191	0.450249	28.191	-1.17862	28.191	-2.02215	28.191	-2.21966	28.191	-1.46126	28.191	-0.414536
29.9749	10.0147	29.9749	3.21585	29.9749	-0.245959	29.9749	-1.64928	29.9749	-2.341	29.9749	-2.42079	29.9749	-1.55332	29.9749	-0.44731
31.7588	8.31915	31.7588	2.1604	31.7588	-0.915386	31.7588	-2.0993	31.7588	-2.64169	31.7588	-2.60787	31.7588	-1.63878	31.7588	-0.478769
33.5427	6.6707	33.5427	1.14632	33.5427	-1.55063	33.5427	-2.52434	33.5427	-2.92207	33.5427	-2.78012	33.5427	-1.71705	33.5427	-0.508772
35.3266	5.09457	35.3266	0.187442	35.3266	-2.14427	35.3266	-2.9201	35.3266	-3.17996	35.3266	-2.93674	35.3266	-1.78751	35.3266	-0.537178
37.1106	3.61602	37.1106	-0.702383	37.1106	-2.68891	37.1106	-3.28224	37.1106	-3.41322	37.1106	-3.07696	37.1106	-1.84958	37.1106	-0.563846
38.8945	2.26029	38.8945	-1.50931	38.8945	-3.17714	38.8945	-3.60645	38.8945	-3.61969	38.8945	-3.19999	38.8945	-1.90266	38.8945	-0.588635
40.6784	1.05265	40.6784	-2.21951	40.6784	-3.60155	40.6784	-3.88839	40.6784	-3.79719	40.6784	-3.30503	40.6784	-1.94614	40.6784	-0.611404
42.4623	0.0183596	42.4623	-2.81912	42.4623	-3.95474	42.4623	-4.12375	42.4623	-3.94358	42.4623	-3.39131	42.4623	-1.97943	42.4623	-0.632013
44.2462	-0.817333	44.2462	-3.29431	44.2462	-4.2293	44.2462	-4.3082	44.2462	-4.0567	44.2462	-3.45804	44.2462	-2.00193	44.2462	-0.650319
46.0302	-1.43054	46.0302	-3.63202	46.0302	-4.41825	46.0302	-4.43767	46.0302	-4.13451	46.0302	-3.50448	46.0302	-2.01309	46.0302	-0.666188
47.8141	-1.81981	47.8141	-3.83196	47.8141	-4.52177	47.8141	-4.51223	47.8141	-4.1772	47.8141	-3.53079	47.8141	-2.01328	47.8141	-0.679558
49.598	-2.00204	49.598	-3.90429	49.598	-4.54586	49.598	-4.53532	49.598	-4.18673	49.598	-3.5378	49.598	-2.00357	49.598	-0.690432
51.3819	-1.99466	51.3819	-3.85948	51.3819	-4.49669	51.3819	-4.51046	51.3819	-4.16511	51.3819	-3.52641	51.3819	-1.98508	51.3819	-0.698813
53.1658	-1.81509	53.1658	-3.70799	53.1658	-4.38046	53.1658	-4.44121	53.1658	-4.11437	53.1658	-3.49749	53.1658	-1.95892	53.1658	-0.704705
54.9497	-1.48075	54.9497	-3.46028	54.9497	-4.20332	54.9497	-4.3311	54.9497	-4.03651	54.9497	-3.45192	54.9497	-1.92619	54.9497	-0.708112
56.7337	-1.00908	56.7337	-3.12681	56.7337	-3.97145	56.7337	-4.18367	56.7337	-3.93357	56.7337	-3.39057	56.7337	-1.88801	56.7337	-0.709038
58.5176	-0.417507	58.5176	-2.71806	58.5176	-3.69103	58.5176	-4.00246	58.5176	-3.80755	58.5176	-3.31433	58.5176	-1.84548	58.5176	-0.707486
60.3015	0.276553	60.3015	-2.24449	60.3015	-3.36824	60.3015	-3.79101	60.3015	-3.66048	60.3015	-3.22406	60.3015	-1.7997	60.3015	-0.703459
62.0854	1.05567	62.0854	-1.71655	62.0854	-3.00926	62.0854	-3.55285	62.0854	-3.49438	62.0854	-3.12066	62.0854	-1.7518	62.0854	-0.696962
63.8693	1.90241	63.8693	-1.14471	63.8693	-2.62024	63.8693	-3.29152	63.8693	-3.31125	63.8693	-3.00499	63.8693	-1.70288	63.8693	-0.687999
65.6533	2.79937	65.6533	-0.539445	65.6533	-2.20739	65.6533	-3.01058	65.6533	-3.11314	65.6533	-2.87795	65.6533	-1.65403	65.6533	-0.676573
67.4372	3.72964	67.4372	0.0888611	67.4372	-1.77708	67.4372	-2.71397	67.4372	-2.90248	67.4372	-2.74084	67.4372	-1.6058	67.4372	-0.662765
69.2211	4.67704	69.2211	0.729902	69.2211	-1.33601	69.2211	-2.40621	69.2211	-2.68235	69.2211	-2.59559	69.2211	-1.55793	69.2211	-0.646754
71.005	5.62546	71.005	1.37338	71.005	-0.890893	71.005	-2.09188	71.005	-2.45583	71.005	-2.44414	71.005	-1.51011	71.005	-0.628731
72.7889	6.55877	72.7889	2.009	72.7889	-0.448437	72.7889	-1.77553	72.7889	-2.22604	72.7889	-2.28848	72.7889	-1.46204	72.7889	-0.608884
74.5729	7.46086	74.5729	2.62646	74.5729	-0.015357	74.5729	-1.46175	74.5729	-1.99607	74.5729	-2.13055	74.5729	-1.41339	74.5729	-0.587404
76.3568	8.3156	76.3568	3.21548	76.3568	0.401635	76.3568	-1.15508	76.3568	-1.76902	76.3568	-1.97232	76.3568	-1.36385	76.3568	-0.564479
78.1407	9.10687	78.1407	3.76574	78.1407	0.795825	78.1407	-0.860112	78.1407	-1.548	78.1407	-1.81575	78.1407	-1.31313	78.1407	-0.540298
79.9246	9.81856	79.9246	4.26697	79.9246	1.1605	79.9246	-0.581399	79.9246	-1.33611	79.9246	-1.66281	79.9246	-1.26089	79.9246	-0.515051
81.7085	10.4345	81.7085	4.70885	81.7085	1.48895	81.7085	-0.323511	81.7085	-1.13646	81.7085	-1.51545	81.7085	-1.20683	81.7085	-0.488928
83.4925	10.9387	83.4925	5.08109	83.4925	1.77446	83.4925	-0.0910162	83.4925	-0.952132	83.4925	-1.37565	83.4925	-1.15064	83.4925	-0.462118
85.2764	11.3149	85.2764	5.37342	85.2764	2.01033	85.2764	0.111524	85.2764	-0.78624	85.2764	-1.24534	85.2764	-1.092	85.2764	-0.434809
87.0603	11.5569	87.0603	5.58166	87.0603	2.19368	87.0603	0.281893	87.0603	-0.640384	87.0603	-1.12567	87.0603	-1.03081	87.0603	-0.407174

88.8442	11.6829	88.8442	5.71714	88.8442	2.33138	88.8442	0.423811	88.8442	-0.512373	88.8442	-1.01562	88.8442	-0.96744	88.8442	-0.379338
90.6281	11.7151	90.6281	5.79361	90.6281	2.4318	90.6281	0.541926	90.6281	-0.399429	90.6281	-0.913854	90.6281	-0.902356	90.6281	-0.35142
92.4121	11.6759	92.4121	5.82481	92.4121	2.50331	92.4121	0.640887	92.4121	-0.298771	92.4121	-0.819028	92.4121	-0.83602	92.4121	-0.323539
94.196	11.5872	94.196	5.82449	94.196	2.55428	94.196	0.725343	94.196	-0.207619	94.196	-0.729804	94.196	-0.768893	94.196	-0.295813
95.9799	11.4714	95.9799	5.8064	95.9799	2.59308	95.9799	0.799943	95.9799	-0.123193	95.9799	-0.644842	95.9799	-0.701436	95.9799	-0.268362
97.7638	11.3506	97.7638	5.78427	97.7638	2.62809	97.7638	0.869333	97.7638	-0.0427125	97.7638	-0.562805	97.7638	-0.634112	97.7638	-0.241305
99.5477	11.247	99.5477	5.77186	99.5477	2.66768	99.5477	0.938164	99.5477	0.0366021	99.5477	-0.482351	99.5477	-0.56738	99.5477	-0.214759
101.332	11.1828	101.332	5.78291	101.332	2.72022	101.332	1.01108	101.332	0.117531	101.332	-0.402141	101.332	-0.501703	101.332	-0.188844
103.116	11.1802	103.116	5.83117	103.116	2.79408	103.116	1.09274	103.116	0.202855	103.116	-0.320836	103.116	-0.437543	103.116	-0.163679
104.899	11.2614	104.899	5.93039	104.899	2.89764	104.899	1.18778	104.899	0.295353	104.899	-0.237096	104.899	-0.37536	104.899	-0.139383
106.683	11.4468	106.683	6.09315	106.683	3.03854	106.683	1.30054	106.683	0.397578	106.683	-0.149728	106.683	-0.315562	106.683	-0.116074
108.467	11.7481	108.467	6.32657	108.467	3.22098	108.467	1.43385	108.467	0.511001	108.467	-0.0582326	108.467	-0.258305	108.467	-0.0938722
110.251	12.1745	110.251	6.63616	110.251	3.44814	110.251	1.5901	110.251	0.636777	110.251	0.0376853	110.251	-0.203666	110.251	-0.0728964
112.035	12.7352	112.035	7.02742	112.035	3.7232	112.035	1.77167	112.035	0.776056	112.035	0.13832	112.035	-0.151725	112.035	-0.0532665
113.819	13.4395	113.819	7.50585	113.819	4.04934	113.819	1.98097	113.819	0.929991	113.819	0.243966	113.819	-0.102562	113.819	-0.0351019
115.603	14.2965	115.603	8.07696	115.603	4.42974	115.603	2.22037	115.603	1.09974	115.603	0.354917	115.603	-0.0562554	115.603	-0.0185221
117.387	15.3154	117.387	8.74624	117.387	4.86758	117.387	2.49226	117.387	1.28644	117.387	0.471468	117.387	-0.0128844	117.387	-0.00364658
119.171	16.5055	119.171	9.5192	119.171	5.36604	119.171	2.79904	119.171	1.49126	119.171	0.593914	119.171	0.0274717	119.171	0.00940508
120.955	17.876	120.955	10.4013	120.955	5.9283	120.955	3.14309	120.955	1.71535	120.955	0.722549	120.955	0.0647338	120.955	0.0205134
122.739	19.436	122.739	11.3982	122.739	6.55753	122.739	3.5268	122.739	1.95985	122.739	0.857667	122.739	0.0988226	122.739	0.0295589
124.523	21.1947	124.523	12.5152	124.523	7.25692	124.523	3.95256	124.523	2.22593	124.523	0.999563	124.523	0.129659	124.523	0.0364221
126.307	23.1572	126.307	13.7551	126.307	8.02797	126.307	4.42169	126.307	2.51409	126.307	1.14823	126.307	0.157126	126.307	0.0409934
128.09	25.2887	128.09	15.0958	128.09	8.85661	128.09	4.92553	128.09	2.81896	128.09	1.30087	128.09	0.18076	128.09	0.0432542
129.874	27.5332	129.874	16.5014	129.874	9.72038	129.874	5.45009	129.874	3.13198	129.874	1.45318	129.874	0.199909	129.874	0.0432352
131.658	29.8346	131.658	17.936	131.658	10.5968	131.658	5.98128	131.658	3.44455	131.658	1.60085	131.658	0.213919	131.658	0.0409676
133.442	32.1366	133.442	19.3636	133.442	11.4632	133.442	6.50505	133.442	3.74808	133.442	1.73955	133.442	0.222136	133.442	0.0364827
135.226	34.383	135.226	20.7483	135.226	12.2971	135.226	7.00732	135.226	4.03398	135.226	1.86498	135.226	0.223907	135.226	0.0298115
137.01	36.5176	137.01	22.0541	137.01	13.076	137.01	7.47403	137.01	4.29366	137.01	1.97281	137.01	0.218578	137.01	0.0209853
138.794	38.4842	138.794	23.2452	138.794	13.7773	138.794	7.89111	138.794	4.51852	138.794	2.05872	138.794	0.205496	138.794	0.0100353
140.578	40.2266	140.578	24.2856	140.578	14.3785	140.578	8.24449	140.578	4.69997	140.578	2.1184	140.578	0.184007	140.578	-0.00300741
142.362	41.6885	142.362	25.1394	142.362	14.857	142.362	8.5201	142.362	4.82943	142.362	2.14754	142.362	0.153457	142.362	-0.0181115
144.146	42.8138	144.146	25.7706	144.146	15.1903	144.146	8.70388	144.146	4.89829	144.146	2.1418	144.146	0.113192	144.146	-0.035246
145.93	43.5481	145.93	26.1446	145.93	15.3567	145.93	8.78229	145.93	4.89831	145.93	2.09708	145.93	0.0626053	145.93	-0.0543746
147.714	43.8773	147.714	26.2534	147.714	15.352	147.714	8.75285	147.714	4.82846	147.714	2.01328	147.714	0.00203723	147.714	-0.0753593
149.497	43.8252	149.497	26.1147	149.497	15.1886	149.497	8.62353	149.497	4.69458	149.497	1.89415	149.497	-0.0672714	149.497	-0.0979658
151.281	43.417	151.281	25.7468	151.281	14.8795	151.281	8.40272	151.281	4.50275	151.281	1.74356	151.281	-0.144045	151.281	-0.121956
153.065	42.6781	153.065	25.1682	153.065	14.4379	153.065	8.09883	153.065	4.25905	153.065	1.56541	153.065	-0.227008	153.065	-0.14709
154.849	41.6338	154.849	24.3974	154.849	13.8766	154.849	7.72023	154.849	3.96957	154.849	1.36359	154.849	-0.314884	154.849	-0.173132
156.633	40.3092	156.633	23.4528	156.633	13.2088	156.633	7.27532	156.633	3.64039	156.633	1.14197	156.633	-0.406397	156.633	-0.199842
158.417	38.7298	158.417	22.3529	158.417	12.4475	158.417	6.77249	158.417	3.27762	158.417	0.904455	158.417	-0.500273	158.417	-0.226982
160.201	36.9207	160.201	21.1162	160.201	11.6057	160.201	6.22012	160.201	2.88732	160.201	0.654922	160.201	-0.595234	160.201	-0.254313
161.985	34.9074	161.985	19.7611	161.985	10.6966	161.985	5.62662	161.985	2.4756	161.985	0.39726	161.985	-0.690007	161.985	-0.281598
163.769	32.715	163.769	18.3061	163.769	9.73307	163.769	5.00037	163.769	2.04853	163.769	0.135357	163.769	-0.783313	163.769	-0.308598
165.553	30.3689	165.553	16.7696	165.553	8.72822	165.553	4.34976	165.553	1.6122	165.553	-0.126912	165.553	-0.873886	165.553	-0.335077
167.337	27.8987	167.337	15.1713	167.337	7.69479	167.337	3.6828	167.337	1.17188	167.337	-0.386526	167.337	-0.9609	167.337	-0.360867
169.121	25.3408	169.121	13.5323	169.121	6.64503	169.121	3.00687	169.121	0.731537	169.121	-0.641873	169.121	-1.04427	169.121	-0.385925

170.905	22.7323	170.905	11.8742	170.905	5.59116	170.905	2.3293	170.905	0.295004	170.905	-0.891473	170.905	-1.12399	170.905	-0.410215
172.688	20.1102	172.688	10.2184	172.688	4.54539	172.688	1.65742	172.688	-0.133877	172.688	-1.13385	172.688	-1.20003	172.688	-0.433702
174.472	17.5117	174.472	8.58625	174.472	3.51994	174.472	0.998573	174.472	-0.551268	174.472	-1.36751	174.472	-1.27239	174.472	-0.456352
176.256	14.974	176.256	6.99928	176.256	2.527	176.256	0.360075	176.256	-0.953331	176.256	-1.59099	176.256	-1.34104	176.256	-0.47813
178.04	12.5339	178.04	5.47892	178.04	1.57881	178.04	-0.250741	178.04	-1.33623	178.04	-1.80281	178.04	-1.40598	178.04	-0.499002
179.824	10.2288	179.824	4.04659	179.824	0.687562	179.824	-0.826545	179.824	-1.69612	179.824	-2.00147	179.824	-1.46718	179.824	-0.518932
181.608	8.0956	181.608	2.72375	181.608	-0.134521	181.608	-1.36001	181.608	-2.02916	181.608	-2.18551	181.608	-1.52463	181.608	-0.537886
183.392	6.17147	183.392	1.53184	183.392	-0.875228	183.392	-1.8438	183.392	-2.33153	183.392	-2.35345	183.392	-1.57831	183.392	-0.555829
185.176	4.49349	185.176	0.492301	185.176	-1.52235	185.176	-2.27059	185.176	-2.59937	185.176	-2.50379	185.176	-1.62822	185.176	-0.572727
186.96	3.08705	186.96	-0.380214	186.96	-2.06752	186.96	-2.63526	186.96	-2.82997	186.96	-2.63545	186.96	-1.67425	186.96	-0.588524
188.744	1.94273	188.744	-1.09126	188.744	-2.51383	188.744	-2.93924	188.744	-3.02394	188.744	-2.74842	188.744	-1.71611	188.744	-0.603101
190.528	1.04459	190.528	-1.65015	190.528	-2.86649	190.528	-3.18522	190.528	-3.1825	190.528	-2.84291	190.528	-1.75343	190.528	-0.61633
192.312	0.376734	192.312	-2.06621	192.312	-3.13074	192.312	-3.37584	192.312	-3.30686	192.312	-2.91915	192.312	-1.78586	192.312	-0.628079
194.095	-0.0767601	194.095	-2.34873	194.095	-3.31178	194.095	-3.51379	194.095	-3.39827	194.095	-2.97734	194.095	-1.81305	194.095	-0.638219
195.879	-0.331806	195.879	-2.50705	195.879	-3.41485	195.879	-3.60172	195.879	-3.45794	195.879	-3.0177	195.879	-1.83465	195.879	-0.646621
197.663	-0.404318	197.663	-2.55047	197.663	-3.44515	197.663	-3.6423	197.663	-3.4871	197.663	-3.04044	197.663	-1.8503	197.663	-0.653153
199.447	-0.310211	199.447	-2.48831	199.447	-3.40792	199.447	-3.6382	199.447	-3.48698	199.447	-3.04578	199.447	-1.85965	199.447	-0.657688
201.231	-0.0653984	201.231	-2.32987	201.231	-3.30836	201.231	-3.59208	201.231	-3.45879	201.231	-3.03392	201.231	-1.86235	201.231	-0.660094
203.015	0.314204	203.015	-2.08449	203.015	-3.15171	203.015	-3.5066	203.015	-3.40376	203.015	-3.00509	203.015	-1.85805	203.015	-0.660243
204.799	0.812682	204.799	-1.76146	204.799	-2.94318	204.799	-3.38444	204.799	-3.32312	204.799	-2.95949	204.799	-1.84639	204.799	-0.658003
206.583	1.41392	206.583	-1.37031	206.583	-2.68819	206.583	-3.22847	206.583	-3.21828	206.583	-2.89751	206.583	-1.82712	206.583	-0.653272
208.367	2.1007	208.367	-0.921729	208.367	-2.39336	208.367	-3.04271	208.367	-3.09174	208.367	-2.82046	208.367	-1.80053	208.367	-0.646094
210.151	2.8554	210.151	-0.426787	210.151	-2.0657	210.151	-2.83159	210.151	-2.94635	210.151	-2.72998	210.151	-1.76713	210.151	-0.636565
211.935	3.6604	211.935	0.103425	211.935	-1.71221	211.935	-2.59954	211.935	-2.785	211.935	-2.62771	211.935	-1.72739	211.935	-0.624782
213.719	4.49809	213.719	0.657822	213.719	-1.3399	213.719	-2.35099	213.719	-2.61054	213.719	-2.5153	213.719	-1.68182	213.719	-0.610841
215.503	5.35086	215.503	1.22532	215.503	-0.955802	215.503	-2.09037	215.503	-2.42584	215.503	-2.39438	215.503	-1.63091	215.503	-0.594838
217.286	6.20108	217.286	1.79483	217.286	-0.566913	217.286	-1.82212	217.286	-2.23377	217.286	-2.26659	217.286	-1.57514	217.286	-0.57687
219.07	7.03114	219.07	2.35527	219.07	-0.180249	219.07	-1.55065	219.07	-2.0372	219.07	-2.13358	219.07	-1.51501	219.07	-0.557033
220.854	7.82343	220.854	2.89556	220.854	0.197177	220.854	-1.2804	220.854	-1.83899	220.854	-1.99698	220.854	-1.45101	220.854	-0.535423
222.638	8.56033	222.638	3.40461	222.638	0.558354	222.638	-1.01581	222.638	-1.642	222.638	-1.85845	222.638	-1.38364	222.638	-0.512137
224.422	9.22422	224.422	3.87133	224.422	0.896269	224.422	-0.761295	224.422	-1.44912	224.422	-1.71961	224.422	-1.31339	224.422	-0.487271
226.206	9.79886	226.206	4.28546	226.206	1.2044	226.206	-0.521026	226.206	-1.26304	226.206	-1.58204	226.206	-1.24073	226.206	-0.460925
227.99	10.2834	227.99	4.64605	227.99	1.48177	227.99	-0.296182	227.99	-1.08473	227.99	-1.44653	227.99	-1.16613	227.99	-0.43325
229.774	10.6866	229.774	4.95797	229.774	1.73086	229.774	-0.086064	229.774	-0.914071	229.774	-1.31336	229.774	-1.08998	229.774	-0.404424
231.558	11.0174	231.558	5.2262	231.558	1.95423	231.558	0.110055	231.558	-0.750902	231.558	-1.18282	231.558	-1.0127	231.558	-0.37463
233.342	11.2849	233.342	5.4557	233.342	2.15442	233.342	0.292901	233.342	-0.595078	233.342	-1.0552	233.342	-0.934703	233.342	-0.344046
235.126	11.4979	235.126	5.65146	235.126	2.33399	235.126	0.463203	235.126	-0.446449	235.126	-0.930766	235.126	-0.856395	235.126	-0.312855
236.91	11.6655	236.91	5.81844	236.91	2.49548	236.91	0.621688	236.91	-0.304867	236.91	-0.809814	236.91	-0.778191	236.91	-0.281236
238.693	11.7965	238.693	5.96161	238.693	2.64145	238.693	0.769083	238.693	-0.170184	238.693	-0.692623	238.693	-0.700501	238.693	-0.249371
240.477	11.9	240.477	6.08595	240.477	2.77444	240.477	0.906115	240.477	-0.0422492	240.477	-0.579476	240.477	-0.623737	240.477	-0.217439
242.261	11.9848	242.261	6.19643	242.261	2.897	242.261	1.03351	242.261	0.0790848	242.261	-0.470658	242.261	-0.54831	242.261	-0.185622
244.045	12.0601	244.045	6.29803	244.045	3.01168	244.045	1.152	244.045	0.193967	244.045	-0.36645	244.045	-0.474632	244.045	-0.154099
245.829	12.1349	245.829	6.3959	245.829	3.12116	245.829	1.26241	245.829	0.302611	245.829	-0.267097	245.829	-0.403104	245.829	-0.123052
247.613	12.2262	247.613	6.50044	247.613	3.23167	247.613	1.36828	247.613	0.406975	247.613	-0.171791	247.613	-0.333893	247.613	-0.0926333
249.397	12.3588	249.397	6.62776	249.397	3.35332	249.397	1.47614	249.397	0.510933	249.397	-0.0785691	249.397	-0.266904	249.397	-0.0629717
251.181	12.5583	251.181	6.79427	251.181	3.49642	251.181	1.59267	251.181	0.618456	251.181	0.0145902	251.181	-0.202029	251.181	-0.0341927

252.965	12.8501	252.965	7.01639	252.965	3.6713	252.965	1.72455	252.965	0.733515	252.965	0.109709	252.965	-0.13916	252.965	-0.00642218
254.749	13.2596	254.749	7.31052	254.749	3.88827	254.749	1.87846	254.749	0.860082	254.749	0.208808	254.749	-0.0781885	254.749	0.020214
256.533	13.8125	256.533	7.69307	256.533	4.15763	256.533	2.06106	256.533	1.00213	256.533	0.313909	256.533	-0.0190072	256.533	0.04559
258.317	14.534	258.317	8.18045	258.317	4.48971	258.317	2.27905	258.317	1.16362	258.317	0.427034	258.317	0.0384919	258.317	0.0695799
260.101	15.4496	260.101	8.78907	260.101	4.89482	260.101	2.5391	260.101	1.34854	260.101	0.550205	260.101	0.094417	260.101	0.0920577
261.884	16.5849	261.884	9.53535	261.884	5.38327	261.884	2.84789	261.884	1.56084	261.884	0.685443	261.884	0.148876	261.884	0.112898
263.668	17.9652	263.668	10.4357	263.668	5.96538	263.668	3.2121	263.668	1.80452	263.668	0.834769	263.668	0.201976	263.668	0.131974
265.452	19.6158	265.452	11.5064	265.452	6.65137	265.452	3.63834	265.452	2.08349	265.452	1.00019	265.452	0.253824	265.452	0.149161
267.236	21.5379	267.236	12.7477	267.236	7.44129	267.236	4.12686	267.236	2.3977	267.236	1.18141	267.236	0.304207	267.236	0.164369
269.02	23.6865	269.02	14.1296	269.02	8.31561	269.02	4.66558	269.02	2.73942	269.02	1.37377	269.02	0.352305	269.02	0.177576
270.804	26.0112	270.804	15.6184	270.804	9.25256	270.804	5.24105	270.804	3.10003	270.804	1.57209	270.804	0.397226	270.804	0.188769
272.588	28.4617	272.588	17.1803	272.588	10.2304	272.588	5.8398	272.588	3.47091	272.588	1.77119	272.588	0.43808	272.588	0.197935
274.372	30.9878	274.372	18.7817	274.372	11.2273	274.372	6.44837	274.372	3.84347	274.372	1.9659	274.372	0.473978	274.372	0.205061
276.156	33.5391	276.156	20.389	276.156	12.2216	276.156	7.05329	276.156	4.20908	276.156	2.15105	276.156	0.504029	276.156	0.210132
277.94	36.0652	277.94	21.9685	277.94	13.1915	277.94	7.64111	277.94	4.55913	277.94	2.32146	277.94	0.527341	277.94	0.213136
279.724	38.516	279.724	23.4865	279.724	14.1152	279.724	8.19837	279.724	4.88502	279.724	2.47195	279.724	0.543026	279.724	0.214059
281.508	40.8411	281.508	24.9093	281.508	14.971	281.508	8.71159	281.508	5.17812	281.508	2.59736	281.508	0.550193	281.508	0.212888
283.291	42.9901	283.291	26.2033	283.291	15.7371	283.291	9.16733	283.291	5.42983	283.291	2.6925	283.291	0.547951	283.291	0.209609
285.075	44.9128	285.075	27.3348	285.075	16.3918	285.075	9.55212	285.075	5.63154	285.075	2.75221	285.075	0.535409	285.075	0.204209
286.859	46.5662	286.859	28.2763	286.859	16.9176	286.859	9.85534	286.859	5.77672	286.859	2.77315	286.859	0.512128	286.859	0.196746
288.643	47.9339	288.643	29.0217	288.643	17.3128	288.643	10.0764	288.643	5.8662	288.643	2.75847	288.643	0.479246	288.643	0.187532
290.427	49.0049	290.427	29.5699	290.427	17.579	290.427	10.2169	290.427	5.90245	290.427	2.71276	290.427	0.438252	290.427	0.176933
292.211	49.7685	292.211	29.9195	292.211	17.7177	292.211	10.2785	292.211	5.88791	292.211	2.64059	292.211	0.390636	292.211	0.165316
293.995	50.2137	293.995	30.0693	293.995	17.7305	293.995	10.2629	293.995	5.82504	293.995	2.54655	293.995	0.337885	293.995	0.153048
295.779	50.3298	295.779	30.0181	295.779	17.619	295.779	10.1715	295.779	5.71631	295.779	2.43522	295.779	0.281489	295.779	0.140497
297.563	50.106	297.563	29.7647	297.563	17.3848	297.563	10.0061	297.563	5.56415	297.563	2.31119	297.563	0.222937	297.563	0.128028
299.347	49.5313	299.347	29.3077	299.347	17.0294	299.347	9.76823	299.347	5.37104	299.347	2.17903	299.347	0.163717	299.347	0.11601
301.131	48.5951	301.131	28.6459	301.131	16.5546	301.131	9.45957	301.131	5.13942	301.131	2.04333	301.131	0.105317	301.131	0.104808
302.915	47.2863	302.915	27.7781	302.915	15.9617	302.915	9.08172	302.915	4.87176	302.915	1.90867	302.915	0.0492275	302.915	0.0947903
304.698	45.5943	304.698	26.7031	304.698	15.2525	304.698	8.63629	304.698	4.57049	304.698	1.77962	304.698	-0.0030642	304.698	0.0863231
306.482	43.5171	306.482	25.4237	306.482	14.4308	306.482	8.12619	306.482	4.23868	306.482	1.6603	306.482	-0.0501793	306.482	0.079734
308.266	41.1121	308.266	23.9705	308.266	13.5152	308.266	7.56288	308.266	3.88329	308.266	1.55158	308.266	-0.0914788	308.266	0.0750861
310.05	38.4612	310.05	22.3854	310.05	12.5307	310.05	6.96131	310.05	3.51289	310.05	1.45302	310.05	-0.126627	310.05	0.0723341
311.834	35.6463	311.834	20.7104	311.834	11.5022	311.834	6.33648	311.834	3.13608	311.834	1.36417	311.834	-0.15529	311.834	0.0714323
313.618	32.7495	313.618	18.9875	313.618	10.4547	313.618	5.70336	313.618	2.76145	313.618	1.28459	313.618	-0.177134	313.618	0.0723347
315.402	29.8526	315.402	17.2585	315.402	9.413	315.402	5.07694	315.402	2.39759	315.402	1.21382	315.402	-0.191823	315.402	0.0749959
317.186	27.0377	317.186	15.5656	317.186	8.40204	317.186	4.47221	317.186	2.05308	317.186	1.15142	317.186	-0.199023	317.186	0.0793699
318.97	24.3866	318.97	13.9507	318.97	7.44675	318.97	3.90413	318.97	1.7365	318.97	1.09694	318.97	-0.198401	318.97	0.085411
320.754	21.9814	320.754	12.4556	320.754	6.57204	320.754	3.38769	320.754	1.45646	320.754	1.04994	320.754	-0.189621	320.754	0.0930736
322.538	19.9039	322.538	11.1225	322.538	5.80282	322.538	2.93788	322.538	1.22153	322.538	1.01019	322.538	-0.172348	322.538	0.102312
324.322	18.2362	324.322	9.99326	324.322	5.164	324.322	2.56967	324.322	1.0403	324.322	0.977706	324.322	-0.14625	324.322	0.11308
326.106	17.0547	326.106	9.1074	326.106	4.67898	326.106	2.29711	326.106	0.920773	326.106	0.95252	326.106	-0.111073	326.106	0.125317
327.889	16.3613	327.889	8.47073	327.889	4.35013	327.889	2.12123	327.889	0.862671	327.889	0.934668	327.889	-0.0677146	327.889	0.138749
329.673	16.103	329.673	8.06435	329.673	4.16442	329.673	2.03353	329.673	0.859691	329.673	0.924183	329.673	-0.0179095	329.673	0.152948
331.457	16.2255	331.457	7.86882	331.457	4.10849	331.457	2.02531	331.457	0.905391	331.457	0.921099	331.457	0.036588	331.457	0.167482
333.241	16.6746	333.241	7.86469	333.241	4.16897	333.241	2.08788	333.241	0.99333	333.241	0.925452	333.241	0.0940236	333.241	0.181917

335.025	17.3962	335.025	8.03251	335.025	4.33251	335.025	2.21252	335.025	1.11706	335.025	0.937274	335.025	0.152643	335.025	0.195822
336.809	18.3361	336.809	8.35283	336.809	4.58572	336.809	2.39054	336.809	1.27015	336.809	0.956601	336.809	0.210692	336.809	0.208765
338.593	19.44	338.593	8.80621	338.593	4.91526	338.593	2.61322	338.593	1.44615	338.593	0.983465	338.593	0.266417	338.593	0.220313
340.377	20.6537	340.377	9.37319	340.377	5.30775	340.377	2.87188	340.377	1.63862	340.377	1.0179	340.377	0.318063	340.377	0.230033
342.161	21.9231	342.161	10.0343	342.161	5.74983	342.161	3.15779	342.161	1.84112	342.161	1.05994	342.161	0.363875	342.161	0.237495
343.945	23.194	343.945	10.7702	343.945	6.22814	343.945	3.46227	343.945	2.0472	343.945	1.10963	343.945	0.402101	343.945	0.242264
345.729	24.4128	345.729	11.5614	345.729	6.72943	345.729	3.77669	345.729	2.2505	345.729	1.16697	345.729	0.431019	345.729	0.243919
347.513	25.5531	347.513	12.3948	347.513	7.24535	347.513	4.09588	347.513	2.44771	347.513	1.23161	347.513	0.450164	347.513	0.242388
349.296	26.6227	349.296	13.2646	349.296	7.77371	349.296	4.41898	349.296	2.63937	349.296	1.30265	349.296	0.460669	349.296	0.238043
351.08	27.6319	351.08	14.1657	351.08	8.31275	351.08	4.74545	351.08	2.82627	351.08	1.37918	351.08	0.463768	351.08	0.231286
352.864	28.5906	352.864	15.0927	352.864	8.86067	352.864	5.07471	352.864	3.00921	352.864	1.46029	352.864	0.460695	352.864	0.222519
354.648	29.5089	354.648	16.0406	354.648	9.41571	354.648	5.40622	354.648	3.18897	354.648	1.54506	354.648	0.452684	354.648	0.212145
356.432	30.397	356.432	17.0041	356.432	9.97608	356.432	5.7394	356.432	3.36635	356.432	1.63257	356.432	0.44097	356.432	0.200565
358.216	31.2649	358.216	17.978	358.216	10.54	358.216	6.0737	358.216	3.54215	358.216	1.72191	358.216	0.426787	358.216	0.188181
360	32.1228	360	18.957	360	11.1057	360	6.40857	360	3.71715	360	1.81217	360	0.41137	360	0.175395

2B-CO_2

angle	R_e - 0.3	angle	R_e - 0.15	angle	R_e	angle	R_e + 0.15	angle	R_e + 0.3	angle	R_e + 0.5	angle	R_e + 1	angle	R_e + 2
5	35.4215	5	20.911	5	12.1968	5	7.05152	5	4.06799	5	1.98684	5	0.510626	5	0.288949
6.78392	34.1082	6.78392	19.9341	6.78392	11.4801	6.78392	6.52596	6.78392	3.68046	6.78392	1.72492	6.78392	0.403171	6.78392	0.2624
8.56784	32.7947	8.56784	18.9591	8.56784	10.7659	8.56784	6.00281	8.56784	3.29507	8.56784	1.46472	8.56784	0.296537	8.56784	0.236006
10.3518	31.4809	10.3518	17.9877	10.3518	10.0565	10.3518	5.48448	10.3518	2.914	10.3518	1.20794	10.3518	0.191547	10.3518	0.209923
12.1357	30.1667	12.1357	17.0219	12.1357	9.35431	12.1357	4.97338	12.1357	2.53938	12.1357	0.956299	12.1357	0.0890226	12.1357	0.184307
13.9196	28.8517	13.9196	16.0633	13.9196	8.66182	13.9196	4.47193	13.9196	2.17338	13.9196	0.711514	13.9196	-0.0102148	13.9196	0.159311
15.7035	27.536	15.7035	15.1138	15.7035	7.98144	15.7035	3.98252	15.7035	1.81814	15.7035	0.475295	15.7035	-0.105343	15.7035	0.135093
17.4874	26.2193	17.4874	14.1753	17.4874	7.31557	17.4874	3.50757	17.4874	1.47583	17.4874	0.249357	17.4874	-0.195541	17.4874	0.111806
19.2714	24.9015	19.2714	13.2496	19.2714	6.66663	19.2714	3.0495	19.2714	1.14859	19.2714	0.0354118	19.2714	-0.279986	19.2714	0.0896078
21.0553	23.5824	21.0553	12.3384	21.0553	6.03705	21.0553	2.6107	21.0553	0.838584	21.0553	-0.164826	21.0553	-0.357857	21.0553	0.068652
22.8392	22.2618	22.8392	11.4437	22.8392	5.42924	22.8392	2.1936	22.8392	0.547956	22.8392	-0.349644	22.8392	-0.428332	22.8392	0.0490945
24.6231	20.9397	24.6231	10.5673	24.6231	4.84563	24.6231	1.8006	24.6231	0.278863	24.6231	-0.517328	24.6231	-0.490589	24.6231	0.0310908
26.407	19.6183	26.407	9.71229	26.407	4.2893	26.407	1.43439	26.407	0.0335436	26.407	-0.666204	26.407	-0.543879	26.407	0.0147847
28.191	18.3202	28.191	8.89214	28.191	3.76847	28.191	1.09988	28.191	-0.185124	28.191	-0.794892	28.191	-0.588015	28.191	0.000233673
29.9749	17.077	29.9749	8.12505	29.9749	3.29371	29.9749	0.802982	29.9749	-0.373965	29.9749	-0.902149	29.9749	-0.623068	29.9749	-0.0125452
31.7588	15.9204	31.7588	7.42927	31.7588	2.87564	31.7588	0.549606	31.7588	-0.5298	31.7588	-0.986732	31.7588	-0.64911	31.7588	-0.023535
33.5427	14.8821	33.5427	6.82299	33.5427	2.52484	33.5427	0.345673	33.5427	-0.649451	33.5427	-1.0474	33.5427	-0.666214	33.5427	-0.0327188
35.3266	13.9938	35.3266	6.32447	35.3266	2.25191	35.3266	0.197103	35.3266	-0.729743	35.3266	-1.08291	35.3266	-0.674452	35.3266	-0.0400796
37.1106	13.2872	37.1106	5.95191	37.1106	2.06746	37.1106	0.109815	37.1106	-0.767496	37.1106	-1.09202	37.1106	-0.673898	37.1106	-0.0456005
38.8945	12.794	38.8945	5.72354	38.8945	1.98207	38.8945	0.0897261	38.8945	-0.759533	38.8945	-1.07348	38.8945	-0.664625	38.8945	-0.0492647
40.6784	12.5459	40.6784	5.6576	40.6784	2.00635	40.6784	0.142756	40.6784	-0.702678	40.6784	-1.02606	40.6784	-0.646704	40.6784	-0.0510551
42.4623	12.5746	42.4623	5.7723	42.4623	2.15089	42.4623	0.274823	42.4623	-0.593751	42.4623	-0.948515	42.4623	-0.620209	42.4623	-0.0509549
44.2462	12.9118	44.2462	6.08587	44.2462	2.42629	44.2462	0.491845	44.2462	-0.429575	44.2462	-0.839597	44.2462	-0.585211	44.2462	-0.048947
46.0302	13.5869	46.0302	6.61509	46.0302	2.8422	46.0302	0.799133	46.0302	-0.207365	46.0302	-0.698286	46.0302	-0.541841	46.0302	-0.0450335
47.8141	14.5922	47.8141	7.35295	47.8141	3.3928	47.8141	1.19203	47.8141	0.0692498	47.8141	-0.52713	47.8141	-0.491142	47.8141	-0.0395235
49.598	15.8895	49.598	8.27304	49.598	4.05957	49.598	1.65772	49.598	0.391402	49.598	-0.3316	49.598	-0.434908	49.598	-0.0329775
51.3819	17.4398	51.3819	9.34837	51.3819	4.82368	51.3819	2.18317	51.3819	0.750067	51.3819	-0.117252	51.3819	-0.374954	51.3819	-0.0259633

53.1658	19.204	53.1658	10.552	53.1658	5.66625	53.1658	2.75533	53.1658	1.13623	53.1658	0.110361	53.1658	-0.313096	53.1658	-0.0190487
54.9497	21.143	54.9497	11.8568	54.9497	6.56843	54.9497	3.36116	54.9497	1.54085	54.9497	0.345682	54.9497	-0.251147	54.9497	-0.0128016
56.7337	23.2178	56.7337	13.236	56.7337	7.51136	56.7337	3.98763	56.7337	1.95493	56.7337	0.583157	56.7337	-0.190924	56.7337	-0.00778967
58.5176	25.3895	58.5176	14.6625	58.5176	8.47617	58.5176	4.62167	58.5176	2.36943	58.5176	0.81723	58.5176	-0.134242	58.5176	-0.00458079
60.3015	27.6188	60.3015	16.1092	60.3015	9.44402	60.3015	5.25026	60.3015	2.77533	60.3015	1.04235	60.3015	-0.0829148	60.3015	-0.00374274
62.0854	29.8668	62.0854	17.5494	62.0854	10.396	62.0854	5.86035	62.0854	3.16362	62.0854	1.25295	62.0854	-0.0387587	62.0854	-0.00584332
63.8693	32.0945	63.8693	18.9558	63.8693	11.3134	63.8693	6.43889	63.8693	3.52526	63.8693	1.44349	63.8693	-0.00358859	63.8693	-0.0114503
65.6533	34.2627	65.6533	20.3017	65.6533	12.1772	65.6533	6.97292	65.6533	3.85129	65.6533	1.60844	65.6533	0.0207994	65.6533	-0.0211225
67.4372	36.3347	67.4372	21.5636	67.4372	12.9722	67.4372	7.45259	67.4372	4.13544	67.4372	1.74434	67.4372	0.0335181	67.4372	-0.0349796
69.2211	38.2765	69.2211	22.7227	69.2211	13.6879	69.2211	7.87258	69.2211	4.37522	69.2211	1.85059	69.2211	0.0349708	69.2211	-0.0525186
71.005	40.0543	71.005	23.7609	71.005	14.3142	71.005	8.22786	71.005	4.56847	71.005	1.92682	71.005	0.0256596	71.005	-0.073189
72.7889	41.6344	72.7889	24.6599	72.7889	14.8409	72.7889	8.51344	72.7889	4.71299	72.7889	1.97266	72.7889	0.00608613	72.7889	-0.0964401
74.5729	42.9832	74.5729	25.4015	74.5729	15.2579	74.5729	8.7243	74.5729	4.8066	74.5729	1.98775	74.5729	-0.0232476	74.5729	-0.121721
76.3568	44.0669	76.3568	25.9673	76.3568	15.5552	76.3568	8.85544	76.3568	4.84714	76.3568	1.97171	76.3568	-0.0618399	76.3568	-0.148482
78.1407	44.8519	78.1407	26.3391	78.1407	15.7225	78.1407	8.90186	78.1407	4.83241	78.1407	1.92417	78.1407	-0.109189	78.1407	-0.176172
79.9246	45.3043	79.9246	26.4986	79.9246	15.7498	79.9246	8.85854	79.9246	4.76024	79.9246	1.84476	79.9246	-0.164793	79.9246	-0.20424
81.7085	45.3905	81.7085	26.4276	81.7085	15.627	81.7085	8.72048	81.7085	4.62844	81.7085	1.73311	81.7085	-0.228149	81.7085	-0.232137
83.4925	45.0768	83.4925	26.1079	83.4925	15.344	83.4925	8.48268	83.4925	4.43483	83.4925	1.58886	83.4925	-0.298757	83.4925	-0.25931
85.2764	44.3295	85.2764	25.5211	85.2764	14.8906	85.2764	8.14013	85.2764	4.17725	85.2764	1.41164	85.2764	-0.376114	85.2764	-0.285211
87.0603	43.1375	87.0603	24.6626	87.0603	14.2652	87.0603	7.69284	87.0603	3.8564	87.0603	1.20241	87.0603	-0.459573	87.0603	-0.309489
88.8442	41.547	88.8442	23.5623	88.8442	13.4875	88.8442	7.15342	88.8442	3.48031	88.8442	0.965542	88.8442	-0.548121	88.8442	-0.332304
90.6281	39.6131	90.6281	22.2551	90.6281	12.5807	90.6281	6.53647	90.6281	3.05813	90.6281	0.70592	90.6281	-0.640689	90.6281	-0.353894
92.4121	37.3909	92.4121	20.7763	92.4121	11.5677	92.4121	5.8566	92.4121	2.59904	92.4121	0.428435	92.4121	-0.736207	92.4121	-0.374497
94.196	34.9353	94.196	19.1609	94.196	10.4717	94.196	5.12841	94.196	2.1122	94.196	0.137975	94.196	-0.833605	94.196	-0.394352
95.9799	32.3016	95.9799	17.4441	95.9799	9.31585	95.9799	4.36648	95.9799	1.60676	95.9799	-0.160568	95.9799	-0.931813	95.9799	-0.413697
97.7638	29.5447	97.7638	15.661	97.7638	8.12308	97.7638	3.58543	97.7638	1.0919	97.7638	-0.462307	97.7638	-1.02976	97.7638	-0.432771
99.5477	26.7199	99.5477	13.8467	99.5477	6.91654	99.5477	2.79985	99.5477	0.576784	99.5477	-0.762351	99.5477	-1.12638	99.5477	-0.451811
101.332	23.8821	101.332	12.0363	101.332	5.71931	101.332	2.02434	101.332	0.0705678	101.332	-1.05581	101.332	-1.2206	101.332	-0.471056
103.116	21.0864	103.116	10.2649	103.116	4.55445	103.116	1.27349	103.116	-0.417581	103.116	-1.3378	103.116	-1.31135	103.116	-0.490745
104.899	18.3879	104.899	8.56775	104.899	3.44506	104.899	0.561912	104.899	-0.878499	104.899	-1.60342	104.899	-1.39756	104.899	-0.511116
106.683	15.8345	106.683	6.975	106.683	2.41088	106.683	-0.0979805	106.683	-1.30443	106.683	-1.84857	106.683	-1.47832	106.683	-0.532337
108.467	13.4398	108.467	5.49391	108.467	1.45587	108.467	-0.704095	108.467	-1.69427	108.467	-2.07274	108.467	-1.5535	108.467	-0.554242
110.251	11.2074	110.251	4.12488	110.251	0.579321	110.251	-1.2574	110.251	-2.04889	110.251	-2.27653	110.251	-1.62318	110.251	-0.576566
112.035	9.14081	112.035	2.86832	112.035	-0.219476	112.035	-1.75885	112.035	-2.36916	112.035	-2.46054	112.035	-1.68744	112.035	-0.599046
113.819	7.24354	113.819	1.72464	113.819	-0.941232	113.819	-2.20942	113.819	-2.65595	113.819	-2.62535	113.819	-1.74638	113.819	-0.621417
115.603	5.51913	115.603	0.694257	115.603	-1.58666	115.603	-2.61006	115.603	-2.91014	115.603	-2.77156	115.603	-1.80008	115.603	-0.643415
117.387	3.97113	117.387	-0.222428	117.387	-2.15647	117.387	-2.96176	117.387	-3.1326	117.387	-2.89975	117.387	-1.84862	117.387	-0.664776
119.171	2.60306	119.171	-1.025	119.171	-2.65136	119.171	-3.26546	119.171	-3.32419	119.171	-3.01053	119.171	-1.8921	119.171	-0.685234
120.955	1.41845	120.955	-1.71306	120.955	-3.07206	120.955	-3.52213	120.955	-3.48579	120.955	-3.10447	120.955	-1.93061	120.955	-0.704526
122.739	0.420851	122.739	-2.28619	122.739	-3.41928	122.739	-3.73274	122.739	-3.61826	122.739	-3.18218	122.739	-1.96422	122.739	-0.722388
124.523	-0.386217	124.523	-2.74398	124.523	-3.69371	124.523	-3.89826	124.523	-3.72249	124.523	-3.24423	124.523	-1.99303	124.523	-0.738555
126.307	-1.00048	126.307	-3.08664	126.307	-3.89638	126.307	-4.01977	126.307	-3.79937	126.307	-3.29123	126.307	-2.01711	126.307	-0.752782
128.09	-1.43132	128.09	-3.32009	128.09	-4.03107	128.09	-4.09953	128.09	-3.85021	128.09	-3.32374	128.09	-2.03646	128.09	-0.765008
129.874	-1.69441	129.874	-3.45331	129.874	-4.10305	129.874	-4.14045	129.874	-3.87652	129.874	-3.3423	129.874	-2.05102	129.874	-0.775271
131.658	-1.80549	131.658	-3.49534	131.658	-4.11762	131.658	-4.14542	131.658	-3.87981	131.658	-3.34746	131.658	-2.06075	131.658	-0.783608
133.442	-1.7803	133.442	-3.4552	133.442	-4.08008	133.442	-4.11734	133.442	-3.86158	133.442	-3.33979	133.442	-2.06559	133.442	-0.790058

135.226	-1.63458	135.226	-3.34191	135.226	-3.99571	135.226	-4.05912	135.226	-3.82333	135.226	-3.31982	135.226	-2.06549	135.226	-0.79466
137.01	-1.38407	137.01	-3.16449	137.01	-3.86981	137.01	-3.97366	137.01	-3.76659	137.01	-3.28811	137.01	-2.06039	137.01	-0.797451
138.794	-1.0445	138.794	-2.93198	138.794	-3.70767	138.794	-3.86386	138.794	-3.69285	138.794	-3.2452	138.794	-2.05025	138.794	-0.79847
140.578	-0.631627	140.578	-2.65339	140.578	-3.5146	140.578	-3.73262	140.578	-3.60363	140.578	-3.19166	140.578	-2.03501	140.578	-0.797755
142.362	-0.161176	142.362	-2.33776	142.362	-3.29588	142.362	-3.58284	142.362	-3.50043	142.362	-3.12802	142.362	-2.01462	142.362	-0.795345
144.146	0.351112	144.146	-1.9941	144.146	-3.0568	144.146	-3.41743	144.146	-3.38476	144.146	-3.05485	144.146	-1.98903	144.146	-0.791277
145.93	0.88965	145.93	-1.63138	145.93	-2.80264	145.93	-3.23929	145.93	-3.25816	145.93	-2.97271	145.93	-1.9582	145.93	-0.785595
147.714	1.44208	147.714	-1.25717	147.714	-2.53827	147.714	-3.05154	147.714	-3.12265	147.714	-2.88283	147.714	-1.92256	147.714	-0.778427
149.497	1.9991	149.497	-0.877754	149.497	-2.26813	149.497	-2.85748	149.497	-2.98076	149.497	-2.78699	149.497	-1.88295	149.497	-0.769985
151.281	2.55151	151.281	-0.499349	151.281	-1.99669	151.281	-2.66041	151.281	-2.83502	151.281	-2.68702	151.281	-1.84023	151.281	-0.760483
153.065	3.09014	153.065	-0.128179	153.065	-1.72838	153.065	-2.46365	153.065	-2.68795	153.065	-2.58474	153.065	-1.79528	153.065	-0.750136
154.849	3.60579	154.849	0.229531	154.849	-1.46766	154.849	-2.27051	154.849	-2.54209	154.849	-2.48198	154.849	-1.74895	154.849	-0.739157
156.633	4.08928	156.633	0.567559	156.633	-1.21898	156.633	-2.08429	156.633	-2.39996	156.633	-2.38055	156.633	-1.70211	156.633	-0.727762
158.417	4.53141	158.417	0.87968	158.417	-0.986786	158.417	-1.90831	158.417	-2.26411	158.417	-2.28229	158.417	-1.65562	158.417	-0.716165
160.201	4.92302	160.201	1.15967	160.201	-0.775523	160.201	-1.74586	160.201	-2.13706	160.201	-2.18902	160.201	-1.61035	160.201	-0.70458
161.985	5.2549	161.985	1.40131	161.985	-0.589643	161.985	-1.60027	161.985	-2.02134	161.985	-2.10255	161.985	-1.56716	161.985	-0.693222
163.769	5.51787	163.769	1.59838	163.769	-0.433592	163.769	-1.47483	163.769	-1.91948	163.769	-2.02471	163.769	-1.52691	163.769	-0.682305
165.553	5.70284	165.553	1.7447	165.553	-0.311778	165.553	-1.37284	165.553	-1.83401	165.553	-1.95732	165.553	-1.49046	165.553	-0.672043
167.337	5.80797	167.337	1.83874	167.337	-0.225587	167.337	-1.29554	167.337	-1.76603	167.337	-1.90131	167.337	-1.45837	167.337	-0.662603
169.121	5.84334	169.121	1.88651	169.121	-0.171417	169.121	-1.24084	169.121	-1.71437	169.121	-1.85619	169.121	-1.4307	169.121	-0.654072
170.905	5.82016	170.905	1.89477	170.905	-0.145201	170.905	-1.20635	170.905	-1.67764	170.905	-1.82134	170.905	-1.40746	170.905	-0.646532
172.688	5.74965	172.688	1.87026	172.688	-0.142871	172.688	-1.18966	172.688	-1.65446	172.688	-1.79613	172.688	-1.38867	172.688	-0.640065
174.472	5.643	174.472	1.81973	174.472	-0.16036	174.472	-1.18836	174.472	-1.64343	174.472	-1.77993	174.472	-1.37433	174.472	-0.63475
176.256	5.51142	176.256	1.74992	176.256	-0.193601	176.256	-1.20006	176.256	-1.64316	176.256	-1.77212	176.256	-1.36446	176.256	-0.63067
178.04	5.36613	178.04	1.66758	178.04	-0.238526	178.04	-1.22236	178.04	-1.65227	178.04	-1.77208	178.04	-1.35907	178.04	-0.627905
179.824	5.21833	179.824	1.57944	179.824	-0.291067	179.824	-1.25284	179.824	-1.66936	179.824	-1.77917	179.824	-1.35818	179.824	-0.626536
181.608	5.07923	181.608	1.49227	181.608	-0.347158	181.608	-1.28911	181.608	-1.69304	181.608	-1.79277	181.608	-1.36179	181.608	-0.626645
183.392	4.96004	183.392	1.41279	183.392	-0.40273	183.392	-1.32877	183.392	-1.72192	183.392	-1.81225	183.392	-1.36992	183.392	-0.628312
185.176	4.87195	185.176	1.34776	185.176	-0.453718	185.176	-1.36941	185.176	-1.75463	185.176	-1.83699	185.176	-1.38258	185.176	-0.631619
186.96	4.8211	186.96	1.30093	186.96	-0.497794	186.96	-1.40959	186.96	-1.79025	186.96	-1.86653	186.96	-1.3997	186.96	-0.636587
188.744	4.79839	188.744	1.26708	188.744	-0.537819	188.744	-1.45075	188.744	-1.8294	188.744	-1.90089	188.744	-1.42095	188.744	-0.643058
190.528	4.79194	190.528	1.23938	190.528	-0.57762	190.528	-1.49485	190.528	-1.87295	190.528	-1.94017	190.528	-1.44595	190.528	-0.650843
192.312	4.78985	192.312	1.21096	192.312	-0.621021	192.312	-1.54386	192.312	-1.92178	192.312	-1.98449	192.312	-1.47432	192.312	-0.65975
194.095	4.78022	194.095	1.17497	194.095	-0.671846	194.095	-1.59973	194.095	-1.97677	194.095	-2.03396	194.095	-1.5057	194.095	-0.66959
195.879	4.75117	195.879	1.12456	195.879	-0.733922	195.879	-1.66444	195.879	-2.03879	195.879	-2.0887	195.879	-1.53971	195.879	-0.680173
197.663	4.69079	197.663	1.05286	197.663	-0.811072	197.663	-1.73995	197.663	-2.10872	197.663	-2.14881	197.663	-1.57596	197.663	-0.691307
199.447	4.58719	199.447	0.953026	199.447	-0.907122	199.447	-1.82821	199.447	-2.18743	199.447	-2.2144	199.447	-1.61408	199.447	-0.702803
201.231	4.42848	201.231	0.818198	201.231	-1.0259	201.231	-1.93121	201.231	-2.27581	201.231	-2.28559	201.231	-1.6537	201.231	-0.71447
203.015	4.20276	203.015	0.641521	203.015	-1.17122	203.015	-2.0509	203.015	-2.37474	203.015	-2.36249	203.015	-1.69445	203.015	-0.726117
204.799	3.89814	204.799	0.41614	204.799	-1.34692	204.799	-2.18924	204.799	-2.48507	204.799	-2.4452	204.799	-1.73593	204.799	-0.737556
206.583	3.50624	206.583	0.137322	206.583	-1.55553	206.583	-2.34742	206.583	-2.60724	206.583	-2.53361	206.583	-1.77776	206.583	-0.748594
208.367	3.03844	208.367	-0.187734	208.367	-1.7923	208.367	-2.52226	208.367	-2.739	208.367	-2.62628	208.367	-1.81934	208.367	-0.759044
210.151	2.51305	210.151	-0.547662	210.151	-2.04995	210.151	-2.70901	210.151	-2.87722	210.151	-2.72129	210.151	-1.86003	210.151	-0.768716
211.935	1.94836	211.935	-0.931091	211.935	-2.32119	211.935	-2.90297	211.935	-3.01875	211.935	-2.81674	211.935	-1.8992	211.935	-0.777421
213.719	1.36268	213.719	-1.32665	213.719	-2.59875	213.719	-3.09939	213.719	-3.16043	213.719	-2.91074	213.719	-1.93619	213.719	-0.78497
215.503	0.774297	215.503	-1.72297	215.503	-2.87533	215.503	-3.29357	215.503	-3.29912	215.503	-3.00137	215.503	-1.97036	215.503	-0.791175

217.286	0.201524	217.286	-2.10868	217.286	-3.14365	217.286	-3.48077	217.286	-3.43167	217.286	-3.08672	217.286	-2.00107	217.286	-0.795845
219.07	-0.337341	219.07	-2.4724	219.07	-3.39642	219.07	-3.65627	219.07	-3.55494	219.07	-3.16491	219.07	-2.02768	219.07	-0.798794
220.854	-0.823997	220.854	-2.80278	220.854	-3.62636	220.854	-3.81534	220.854	-3.66578	220.854	-3.23401	220.854	-2.04954	220.854	-0.799831
222.638	-1.24014	222.638	-3.08843	222.638	-3.82618	222.638	-3.95327	222.638	-3.76103	222.638	-3.29212	222.638	-2.06602	222.638	-0.798767
224.422	-1.56748	224.422	-3.31799	224.422	-3.9886	224.422	-4.06531	224.422	-3.83756	224.422	-3.33735	224.422	-2.07646	224.422	-0.795414
226.206	-1.78798	226.206	-3.48027	226.206	-4.10646	226.206	-4.14687	226.206	-3.89231	226.206	-3.36786	226.206	-2.08027	226.206	-0.789607
227.99	-1.88672	227.99	-3.56626	227.99	-4.17416	227.99	-4.19461	227.99	-3.92336	227.99	-3.3828	227.99	-2.07738	227.99	-0.781466
229.774	-1.85076	229.774	-3.56828	229.774	-4.18703	229.774	-4.20601	229.774	-3.92952	229.774	-3.38188	229.774	-2.06807	229.774	-0.771284
231.558	-1.66715	231.558	-3.47869	231.558	-4.14042	231.558	-4.17857	231.558	-3.90957	231.558	-3.36484	231.558	-2.05259	231.558	-0.759359
233.342	-1.32296	233.342	-3.28985	233.342	-4.02971	233.342	-4.10977	233.342	-3.86233	233.342	-3.33142	233.342	-2.03121	233.342	-0.74599
235.126	-0.805263	235.126	-2.99411	235.126	-3.85025	235.126	-3.9971	235.126	-3.78659	235.126	-3.28135	235.126	-2.00422	235.126	-0.731474
236.91	-0.10113	236.91	-2.58382	236.91	-3.5974	236.91	-3.83807	236.91	-3.68116	236.91	-3.21438	236.91	-1.97186	236.91	-0.716109
238.693	0.802371	238.693	-2.05134	238.693	-3.26651	238.693	-3.63015	238.693	-3.54485	238.693	-3.13023	238.693	-1.93442	238.693	-0.700192
240.477	1.91817	240.477	-1.38902	240.477	-2.85294	240.477	-3.37084	240.477	-3.37645	240.477	-3.02864	240.477	-1.89217	240.477	-0.684023
242.261	3.2592	242.261	-0.589217	242.261	-2.35207	242.261	-3.05764	242.261	-3.17476	242.261	-2.90934	242.261	-1.84537	242.261	-0.667898
244.045	4.8384	244.045	0.355719	244.045	-1.75923	244.045	-2.68802	244.045	-2.9386	244.045	-2.77208	244.045	-1.79429	244.045	-0.652115
245.829	6.66783	245.829	1.45295	245.829	-1.07008	245.829	-2.25964	245.829	-2.66684	245.829	-2.61662	245.829	-1.7392	245.829	-0.636962
247.613	8.73632	247.613	2.69654	247.613	-0.287875	247.613	-1.77426	247.613	-2.36044	247.613	-2.44342	247.613	-1.68025	247.613	-0.622423
249.397	11.0072	249.397	4.0662	249.397	0.575741	249.397	-1.23816	249.397	-2.02269	249.397	-2.25374	249.397	-1.61748	249.397	-0.608155
251.181	13.4424	251.181	5.54089	251.181	1.50871	251.181	-0.657869	251.181	-1.65697	251.181	-2.04887	251.181	-1.55092	251.181	-0.593797
252.965	16.004	252.965	7.09959	252.965	2.49897	252.965	-0.0398907	252.965	-1.26666	252.965	-1.83009	252.965	-1.48058	252.965	-0.578988
254.749	18.6539	254.749	8.72126	254.749	3.53445	254.749	0.609255	254.749	-0.855147	254.749	-1.59869	254.749	-1.40651	254.749	-0.563366
256.533	21.3543	256.533	10.3849	256.533	4.6031	256.533	1.28305	256.533	-0.425816	256.533	-1.35597	256.533	-1.32872	256.533	-0.546571
258.317	24.0671	258.317	12.0694	258.317	5.69285	258.317	1.97498	258.317	0.0179468	258.317	-1.10321	258.317	-1.24724	258.317	-0.528241
260.101	26.7542	260.101	13.7538	260.101	6.79164	260.101	2.67853	260.101	0.472756	260.101	-0.841695	260.101	-1.1621	260.101	-0.508016
261.884	29.3778	261.884	15.4171	261.884	7.88741	261.884	3.38719	261.884	0.935226	261.884	-0.572726	261.884	-1.07333	261.884	-0.485534
263.668	31.8997	263.668	17.0381	263.668	8.9681	263.668	4.09443	263.668	1.40197	263.668	-0.297585	263.668	-0.980955	263.668	-0.460435
265.452	34.2822	265.452	18.596	265.452	10.0216	265.452	4.79373	265.452	1.8696	265.452	-0.0175742	265.452	-0.885007	265.452	-0.43236
267.236	36.492	267.236	20.0705	267.236	11.0352	267.236	5.47723	267.236	2.33331	267.236	0.264829	267.236	-0.786033	267.236	-0.401284
269.02	38.5056	269.02	21.4431	269.02	11.9946	269.02	6.13451	269.02	2.78562	269.02	0.544877	269.02	-0.685578	269.02	-0.367825
270.804	40.3003	270.804	22.6952	270.804	12.8853	270.804	6.75486	270.804	3.21875	270.804	0.817563	270.804	-0.585298	270.804	-0.332672
272.588	41.8536	272.588	23.8087	272.588	13.6931	272.588	7.32756	272.588	3.62491	272.588	1.07788	272.588	-0.486848	272.588	-0.296516
274.372	43.143	274.372	24.765	274.372	14.4034	274.372	7.84191	274.372	3.99632	274.372	1.32083	274.372	-0.391884	274.372	-0.260044
276.156	44.1458	276.156	25.5458	276.156	15.0019	276.156	8.2872	276.156	4.32519	276.156	1.54139	276.156	-0.302063	276.156	-0.223949
277.94	44.8394	277.94	26.1326	277.94	15.4742	277.94	8.65271	277.94	4.60373	277.94	1.73457	277.94	-0.21904	277.94	-0.188918
279.724	45.2013	279.724	26.5072	279.724	15.8059	279.724	8.92772	279.724	4.82416	279.724	1.89536	279.724	-0.144471	279.724	-0.155643
281.508	45.2089	281.508	26.6511	281.508	15.9826	281.508	9.10154	281.508	4.9787	281.508	2.01875	281.508	-0.0800126	281.508	-0.124812
283.291	44.8396	283.291	26.5458	283.291	15.9898	283.291	9.16344	283.291	5.05956	283.291	2.09974	283.291	-0.0273207	283.291	-0.0971153
285.075	44.0708	285.075	26.1731	285.075	15.8132	285.075	9.10272	285.075	5.05894	285.075	2.13333	285.075	0.0119488	285.075	-0.0732431
286.859	42.8952	286.859	25.5251	286.859	15.4458	286.859	8.9137	286.859	4.97246	286.859	2.11648	286.859	0.0366903	286.859	-0.0536848
288.643	41.3594	288.643	24.6311	288.643	14.9067	288.643	8.60846	288.643	4.80765	288.643	2.0532	288.643	0.0477379	288.643	-0.0382255
290.427	39.5215	290.427	23.5286	290.427	14.2209	290.427	8.20296	290.427	4.57466	290.427	1.94901	290.427	0.0463529	290.427	-0.0264948
292.211	37.44	292.211	22.2552	292.211	13.4132	292.211	7.71319	292.211	4.28365	292.211	1.80945	292.211	0.0337963	292.211	-0.0181224
293.995	35.1731	293.995	20.8483	293.995	12.5087	293.995	7.15514	293.995	3.94479	293.995	1.64004	293.995	0.0113294	293.995	-0.0127381
295.779	32.7792	295.779	19.3456	295.779	11.5322	295.779	6.54477	295.779	3.56824	295.779	1.44633	295.779	-0.0197865	295.779	-0.00997166
297.563	30.3166	297.563	17.7845	297.563	10.5086	297.563	5.89807	297.563	3.16415	297.563	1.23383	297.563	-0.0582904	297.563	-0.00945276

299.347	27.8436	299.347	16.2026	299.347	9.46289	299.347	5.23101	299.347	2.74269	299.347	1.00809	299.347	-0.102921	299.347	-0.0108111
301.131	25.4186	301.131	14.6373	301.131	8.41993	301.131	4.55959	301.131	2.31402	301.131	0.774627	301.131	-0.152417	301.131	-0.0136765
302.915	23.0999	302.915	13.1263	302.915	7.40467	302.915	3.89976	302.915	1.8883	302.915	0.538981	302.915	-0.205517	302.915	-0.0176787
304.698	20.9457	304.698	11.707	304.698	6.44202	304.698	3.26753	304.698	1.47568	304.698	0.30668	304.698	-0.26096	304.698	-0.0224473
306.482	19.0093	306.482	10.4138	306.482	5.55489	306.482	2.67767	306.482	1.08565	306.482	0.0829573	306.482	-0.317493	306.482	-0.0276228
308.266	17.3087	308.266	9.25996	308.266	4.75286	308.266	2.13705	308.266	0.723156	308.266	-0.128972	308.266	-0.373914	308.266	-0.0329172
310.05	15.848	310.05	8.25015	310.05	4.03998	310.05	1.64926	310.05	0.391266	310.05	-0.326718	310.05	-0.429044	310.05	-0.0380716
311.834	14.6307	311.834	7.38896	311.834	3.42029	311.834	1.2179	311.834	0.0930523	311.834	-0.507894	311.834	-0.481703	311.834	-0.0428276
313.618	13.6609	313.618	6.68097	313.618	2.89786	313.618	0.846542	313.618	-0.168415	313.618	-0.670113	313.618	-0.530712	313.618	-0.0469265
315.402	12.9422	315.402	6.13078	315.402	2.47673	315.402	0.538784	315.402	-0.390067	315.402	-0.810987	315.402	-0.57489	315.402	-0.0501097
317.186	12.4785	317.186	5.74298	317.186	2.16095	317.186	0.298211	317.186	-0.568833	317.186	-0.92813	317.186	-0.613058	317.186	-0.0521186
318.97	12.2736	318.97	5.52218	318.97	1.95456	318.97	0.12841	318.97	-0.701644	318.97	-1.01916	318.97	-0.644037	318.97	-0.0526946
320.754	12.3313	320.754	5.47297	320.754	1.86162	320.754	0.0329701	320.754	-0.785429	320.754	-1.08168	320.754	-0.666647	320.754	-0.0515791
322.538	12.6555	322.538	5.59994	322.538	1.88618	322.538	0.015478	322.538	-0.817119	322.538	-1.1133	322.538	-0.679707	322.538	-0.0485134
324.322	13.2499	324.322	5.9077	324.322	2.03228	324.322	0.0795219	324.322	-0.793644	324.322	-1.11165	324.322	-0.68204	324.322	-0.0432391
326.106	14.1165	326.106	6.39958	326.106	2.30315	326.106	0.228134	326.106	-0.712315	326.106	-1.07457	326.106	-0.672548	326.106	-0.0355161
327.889	15.2318	327.889	7.06176	327.889	2.69063	327.889	0.456651	327.889	-0.575735	327.889	-1.00319	327.889	-0.651296	327.889	-0.025364
329.673	16.5536	329.673	7.86779	329.673	3.17823	329.673	0.754787	329.673	-0.39037	329.673	-0.901029	329.673	-0.619196	329.673	-0.0129916
331.457	18.0394	331.457	8.79098	331.457	3.74927	331.457	1.11213	331.457	-0.162775	331.457	-0.77167	331.457	-0.577181	331.457	0.00138785
333.241	19.6467	333.241	9.8046	333.241	4.38706	333.241	1.51825	333.241	0.100495	333.241	-0.61869	333.241	-0.526181	333.241	0.0175611
335.025	21.3328	335.025	10.882	335.025	5.07494	335.025	1.96275	335.025	0.392885	335.025	-0.445668	335.025	-0.467129	335.025	0.0353148
336.809	23.0552	336.809	11.9963	336.809	5.79621	336.809	2.43521	336.809	0.707839	336.809	-0.256182	336.809	-0.400957	336.809	0.0544358
338.593	24.7714	338.593	13.121	338.593	6.5342	338.593	2.92521	338.593	1.0388	338.593	-0.0538108	338.593	-0.328596	338.593	0.0747109
340.377	26.4387	340.377	14.2293	340.377	7.27224	340.377	3.42233	340.377	1.37922	340.377	0.157867	340.377	-0.250977	340.377	0.0959267
342.161	28.0147	342.161	15.2945	342.161	7.99363	342.161	3.91617	342.161	1.72254	342.161	0.375273	342.161	-0.169034	342.161	0.11787
343.945	29.4566	343.945	16.2899	343.945	8.68171	343.945	4.39631	343.945	2.0622	343.945	0.59483	343.945	-0.0836965	343.945	0.140328
345.729	30.7229	345.729	17.1892	345.729	9.32006	345.729	4.85249	345.729	2.39175	345.729	0.813003	345.729	0.00411062	345.729	0.163089
347.513	31.7995	347.513	17.983	347.513	9.90228	347.513	5.28034	347.513	2.70817	347.513	1.02794	347.513	0.0937599	347.513	0.186023
349.296	32.7082	349.296	18.6833	349.296	10.4347	349.296	5.68298	349.296	3.01287	349.296	1.23993	349.296	0.185	349.296	0.209102
351.08	33.473	351.08	19.3034	351.08	10.9243	351.08	6.06402	351.08	3.30751	351.08	1.44938	351.08	0.277603	351.08	0.232307
352.864	34.1178	352.864	19.8568	352.864	11.3784	352.864	6.42705	352.864	3.59377	352.864	1.65673	352.864	0.371343	352.864	0.255615
354.648	34.6667	354.648	20.3567	354.648	11.804	354.648	6.77568	354.648	3.87334	354.648	1.86239	354.648	0.465991	354.648	0.279006
356.432	35.1437	356.432	20.8165	356.432	12.2082	356.432	7.1135	356.432	4.14788	356.432	2.06679	356.432	0.561321	356.432	0.30246
358.216	35.5727	358.216	21.2496	358.216	12.5982	358.216	7.44413	358.216	4.41906	358.216	2.27034	358.216	0.657106	358.216	0.325956
360	35.9776	360	21.6694	360	12.981	360	7.77115	360	4.68857	360	2.47347	360	0.753118	360	0.349472

Table S5: CCSD(T)-F12 potentials depicted in Figures 4 and 5.

$(1A\text{-}CO_2)_a$

2.43	0.41
2.47	-0.75
2.57	-2.81
2.67	-3.97
2.77	-4.53
2.79	-4.59
2.82	-4.65
2.84	-4.68
2.86	-4.7
2.87	-4.7
2.88	-4.7
2.9	-4.7
2.92	-4.69
2.94	-4.68
2.97	-4.64
3.07	-4.43
3.17	-4.14
3.27	-3.81
3.37	-3.46658
3.47	-3.11624
3.57	-2.78263
3.67	-2.47278
3.77	-2.1903
3.87	-2.00102
4.07	-1.59165
4.37	-1.13995
4.57	-0.921384
4.87	-0.680546
5.37	-0.428551
5.87	-0.282806
6.37	-0.194063
6.87	-0.137625
7.37	-0.100408
7.87	-0.0750438
8.37	-0.0750438
8.87	-0.0445406

$(1A\text{-}CO_2)_b$

2.37	0.6
2.4	-0.12
2.44	-0.94
2.54	-2.41
2.64	-3.25
2.74	-3.67
2.76	-3.72
2.78	-3.75
2.8	-3.78
2.83	-3.8
2.84	-3.81
2.86	-3.81
2.88	-3.81
2.92	-3.79
2.94	-3.77
3.04	-3.62
3.14	-3.4
3.24	-3.14
3.34	-2.88
3.37	-2.8
3.4	-2.72
3.44	-2.62
3.54	-2.37
3.64	-2.14
3.74	-1.93
3.84	-1.73
3.94	-1.56
4.34	-1.03
4.84	-0.65
5.34	-0.42
5.84	-0.29
6.34	-0.21
6.84	-0.15

7.34	-0.12
7.84	-0.09
8.34	-0.07
8.84	-0.06

$(1A\text{-}CO_2)_c$

2.56	0.2
2.58	-0.157084
2.61	-0.646749
2.64	-1.07559
2.67	-1.44951
2.7	-1.77385
2.73	-2.05344
2.76	-2.2927
2.79	-2.49562
2.82	-2.66583
2.85	-2.80667
2.88	-2.92115
2.91	-3.01205
2.94	-3.08191
2.97	-3.13304
3	-3.16756
3.03	-3.18741
3.06	-3.19436
3.09	-3.19
3.12	-3.17579
3.15	-3.15303
3.18	-3.12291
3.21	-3.08649
3.24	-3.04472
3.27	-2.99844
3.3	-2.94841
3.33	-2.89531
3.36	-2.8397
3.39	-2.78215
3.42	-2.72308
3.45	-2.66292
3.48	-2.60202
3.51	-2.54069
3.54	-2.4792
3.57	-2.41781
3.6	-2.35671
3.63	-2.29607
3.66	-2.23607
3.69	-2.17682
3.72	-2.11845
3.82	-1.94657
3.92	-1.75253
4.02	-1.5789
4.12	-1.42412
4.22	-1.28645
4.32	-1.16412
4.42	-1.05545
4.62	-0.872878
4.82	-0.727729
5.32	-0.47857
5.82	-0.32894
6.32	-0.234525
6.82	-0.172396
7.32	-0.129995
7.82	-0.100163

$(1A\text{-}CO_2)_d$

2.6	0.279242
2.63	-0.0880019
2.64	-0.423468
2.74	-1.69467
2.84	-2.44199
2.94	-2.82835
2.96	-2.87337
2.98	-2.90957
3.01	-2.94887
3.04	-2.97215
3.07	-2.98145
3.11	-2.97515

3.14	-2.95852
3.19	-2.91219
3.24	-2.84743
3.34	-2.6803
3.44	-2.48507
3.54	-2.28016
3.64	-2.07733
3.74	-1.88369
3.84	-1.70318
3.94	-1.53762
4.04	-1.3875
4.14	-1.25243
4.2	-1.17824
4.54	-0.841979
5.04	-0.535008
5.54	-0.340185
6.04	-0.248663
6.54	-0.178972
7.04	-0.13236
7.54	-0.10015
8.04	-0.0772526
8.54	-0.0605986

$(1A\text{-}CO_2)_e$

2.73	-0.01
2.83	-1.38196
2.93	-2.16792
3.03	-2.58363
3.09	-2.70711
3.13	-2.74991
3.19	-2.76728
3.23	-2.75379
3.29	-2.70483
3.33	-2.65717
3.43	-2.5027
3.53	-2.31925
3.63	-2.12549
3.73	-1.93317
3.83	-1.74924
3.93	-1.57754
4.13	-1.27666
4.43	-0.928958
4.63	-0.755333
5.13	-0.463365
5.63	-0.296711
6.13	-0.197138
6.63	-0.134952
7.13	-0.0946911
7.63	-0.0678526

$(1B\text{-}CO_2)_a$

2.43	0.569716
2.47	-0.548587
2.57	-2.53073
2.67	-3.65168
2.72	-3.9825
2.77	-4.19859
2.82	-4.3228
2.87	-4.37395
2.92	-4.36749
2.97	-4.31603
3.07	-4.11726
3.17	-3.83918
3.27	-3.52279
3.37	-3.19522
3.47	-2.87402
3.57	-2.56974
3.67	-2.2887
3.77	-2.03339
3.87	-1.80429
3.97	-1.60047
4.07	-1.42018
4.27	-1.12165
4.37	-0.998944
4.57	-0.792588

4.77	-0.636928
4.87	-0.575351
5.37	-0.347684
5.87	-0.219365
6.37	-0.14353
6.87	-0.0968623
7.37	-0.0671372
7.87	-0.0476154
8.37	-0.0344628
8.87	-0.025389

$(1B\text{-}CO_2)_b$

2.82	0.0313566
2.92	-1.13958
3.02	-1.83446
3.07	-2.05092
3.12	-2.20006
3.17	-2.29419
3.22	-2.34384
3.27	-2.35789
3.32	-2.34388
3.37	-2.30812
3.42	-2.25581
3.52	-2.11796
3.62	-1.9559
3.72	-1.78595
3.82	-1.61818
3.92	-1.4584
4.02	-1.30977
4.12	-1.17374
4.22	-1.05061
4.42	-0.841358
4.52	-0.756776
4.72	-0.606676
4.92	-0.493436
5.22	-0.363246
5.72	-0.227773
6.22	-0.148826
6.72	-0.100552
7.22	-0.0698355
7.72	-0.049636
8.22	-0.0360002
8.72	-0.0265876

$(1B\text{-}CO_2)_c$

2.34	0.0986695
2.37	-0.116485
2.4	-0.303244
2.43	-0.464564
2.46	-0.603118
2.49	-0.721366
2.52	-0.834788
2.55	-0.916559
2.58	-0.984235
2.61	-1.03941
2.64	-1.08355
2.67	-1.11793
2.7	-1.14374
2.73	-1.162
2.76	-1.17366
2.79	-1.17956
2.82	-1.18046
2.85	-1.17705
2.88	-1.1699
2.91	-1.15954
2.94	-1.14648
2.97	-1.13112
3	-1.11383
3.03	-1.09497
3.06	-1.0748
3.09	-1.0536
3.12	-1.0316
3.15	-1.00899
3.18	-0.985955
3.21	-0.96263

3.24	-0.939174
3.27	-0.915699
3.3	-0.892299
3.33	-0.869044
3.36	-0.84479
3.39	-0.823279
3.42	-0.800877
3.45	-0.778877
3.48	-0.757284
3.51	-0.73615
3.54	-0.715473
3.57	-0.695286
3.6	-0.675608
3.67	-0.631663
3.77	-0.573738
3.87	-0.521435
3.97	-0.474409
4.07	-0.432278
4.17	-0.394584
4.3	-0.351499
4.43	-0.314181
4.8	-0.234525
5.32	-0.172396
5.82	-0.129995
6.32	-0.100163
6.82	-0.0786081
7.32	-0.0626882

$(2A\text{-}CO_2)_a$

2.41	0.3814
2.45	-0.769822
2.55	-2.81386
2.65	-3.97417
2.75	-4.54273
2.78	-4.63045
2.82	-4.70134
2.85	-4.72481
2.88	-4.72663
2.92	-4.69982
2.95	-4.6615
3	-4.56916
3.05	-4.44877
3.15	-4.15176
3.25	-3.81419
3.35	-3.46529
3.45	-3.13189
3.55	-2.80801
3.65	-2.50837
3.75	-2.23565
3.85	-1.98459
3.95	-1.77141
4.05	-1.57275
4.15	-1.40566
4.35	-1.11803
4.55	-0.897959
4.85	-0.655929
5.35	-0.404141
5.85	-0.26009
6.35	-0.173619
6.85	-0.119522
7.35	-0.0844941
7.85	-0.0611068
8.35	-0.0450865
8.85	-0.0338667

$(2A\text{-}CO_2)_b$

2.39	-0.0912022
2.43	-0.983288
2.53	-2.58205
2.63	-3.50304
2.68	-3.77954
2.73	-3.96248
2.78	-4.06937
2.83	-4.11483
2.88	-4.11112

2.93	-4.06839
2.98	-3.99516
3.03	-3.89845
3.13	-3.65714
3.23	-3.38025
3.33	-3.09154
3.43	-2.80657
3.53	-2.53483
3.63	-2.28164
3.73	-2.04952
3.83	-1.83917
3.93	-1.65007
4.03	-1.48107
4.13	-1.33059
4.33	-1.07833
4.83	-0.657749
5.33	-0.420839
5.83	-0.281068
6.33	-0.194622
6.83	-0.138931
7.33	-0.101769
7.83	-0.0762298
8.33	-0.0582203
8.83	-0.0452246

$(2A\text{-}CO_2)_c$

2.8	0
2.83	-1.38196
2.93	-2.16792
3.03	-2.58363
3.09	-2.70711
3.13	-2.74991
3.19	-2.76728
3.23	-2.75379
3.29	-2.70483
3.33	-2.65717
3.43	-2.5027
3.53	-2.31925
3.63	-2.12549
3.73	-1.93317
3.83	-1.74924
3.93	-1.57754
4.13	-1.27666
4.43	-0.928958
4.63	-0.755333
5.13	-0.463365
5.63	-0.296711
6.13	-0.197138
6.63	-0.134952
7.13	-0.0946911
7.63	-0.0678526
8.13	-0.0678526
8.63	-0.0495356

$(2A\text{-}CO_2)_d$

2.73	-0.0591427
2.83	-1.38196
2.93	-2.16792
3.03	-2.58363
3.09	-2.70711
3.13	-2.74991
3.19	-2.76728
3.23	-2.75379
3.29	-2.70483
3.33	-2.65717
3.43	-2.5027
3.53	-2.31925
3.63	-2.12549
3.73	-1.93317
3.83	-1.74924
3.93	-1.57754
4.13	-1.27666
4.43	-0.928958
4.63	-0.755333
5.13	-0.463365

5.63	-0.296711
6.13	-0.197138
6.63	-0.134952
7.13	-0.0946911
7.63	-0.0678526
8.13	-0.0678526
8.63	-0.0495356

$(2B\text{-}CO_2)_a$

2.39	-0.404536
2.42	-1.07292
2.52	-2.7065
2.62	-3.64404
2.67	-3.92432
2.72	-4.10916
2.77	-4.21669
2.82	-4.26207
2.87	-4.25782
2.92	-4.21433
2.97	-4.14016
3.02	-4.04243
3.12	-3.79856
3.22	-3.51825
3.32	-3.22533
3.42	-2.93546
3.52	-2.65839
3.62	-2.39971
3.72	-2.16216
3.82	-1.94657
3.92	-1.75253
4.02	-1.5789
4.12	-1.42412
4.22	-1.28645
4.32	-1.16412
4.42	-1.05545
4.62	-0.872878
4.82	-0.727729
5.32	-0.47857
5.82	-0.32894
6.32	-0.234525
6.82	-0.172396
7.32	-0.129995
7.82	-0.100163
8.32	-0.0786081
8.82	-0.0626882

$(2B\text{-}CO_2)_b$

2.49	0.0685807
2.5	-0.269076
2.53	-0.860547
2.56	-1.37595
2.59	-1.82308
2.62	-2.20849
2.65	-2.53864
2.68	-2.81925
2.71	-3.05543
2.74	-3.25187
2.77	-3.41276
2.8	-3.54197
2.83	-3.64296
2.86	-3.7189
2.89	-3.77263
2.92	-3.80678
2.95	-3.82369
2.98	-3.82551
3.01	-3.81416
3.04	-3.79125
3.07	-3.75862
3.1	-3.71752
3.13	-3.66923
3.16	-3.61487
3.19	-3.55546
3.82	-1.94657
3.92	-1.75253
4.02	-1.5789

4.12	-1.42412
4.22	-1.28645
4.32	-1.16412
4.42	-1.05545
4.62	-0.872878
4.82	-0.727729
5.32	-0.47857
5.82	-0.32894
6.32	-0.234525
6.82	-0.172396
7.32	-0.129995
7.82	-0.100163
8.32	-0.0786081
8.82	-0.0626882

$(2B\text{-}CO_2)_c$

2.6	0.545895
2.64	-0.294685
2.68	-0.99794
2.7	-1.30363
2.73	-1.71026
2.77	-2.16552
2.82	-2.61298
2.86	-2.88775
2.9	-3.09955
2.94	-3.25727
2.97	-3.34484
3.02	-3.44097
3.05	-3.48028
3.1	-3.49064
3.15	-3.46626
3.2	-3.41467
3.25	-3.34218
3.3	-3.25397
3.35	-3.15431
3.4	-3.04668
3.45	-2.93388
3.55	-2.70141
3.65	-2.47
3.85	-2.03932
4	-1.75733
4.3	-1.30526
4.6	-0.979968
4.9	-0.747464
5.2	-0.579787
5.5	-0.456971
5.8	-0.36538
6.1	-0.295839
6.5	-0.227089
7	-0.167037

$(2B\text{-}CO_2)_d$

1.72	-0.216899
1.82	-1.46476
1.92	-2.16961
1.96	-2.34382
1.98	-2.4127
2.02	-2.51909
2.04	-2.55835
2.08	-2.61304
2.12	-2.64049
2.17	-2.64382
2.22	-2.62002
2.27	-2.57562
2.32	-2.51587
2.42	-2.36673
2.52	-2.19762
2.62	-2.02397
2.72	-1.85473
2.82	-1.69468
2.92	-1.54604
3.02	-1.40977
3.12	-1.28601
3.22	-1.17438
3.42	-0.98438

3.62	-0.832171
3.82	-0.709807
4.12	-0.568015
4.62	-0.405929
5.12	-0.300332
5.62	-0.228275
6.12	-0.177365
6.62	-0.140349
7.12	-0.112876
7.62	-0.0918987
8.12	-0.0757278
8.62	-0.063096

$(2B\text{-}CO_2)_e$

2.6	0.545895
2.64	-0.294685
2.68	-0.99794
2.7	-1.30363
2.73	-1.71026
2.77	-2.16552
2.82	-2.61298
2.86	-2.88775
2.9	-3.09955
2.94	-3.25727
2.97	-3.34484
3.02	-3.44097
3.05	-3.48028
3.1	-3.49064
3.15	-3.46626
3.2	-3.41467
3.25	-3.34218
3.3	-3.25397
3.35	-3.15431
3.4	-3.04668
3.45	-2.93388
3.55	-2.70141
3.65	-2.47
3.85	-2.03932
4	-1.75733
4.3	-1.30526
4.6	-0.979968
4.9	-0.747464
5.2	-0.579787
5.5	-0.456971
5.8	-0.36538
6.1	-0.295839
6.5	-0.227089
7	-0.167037
7.5	-0.125608
8	-0.0962787