Table 10 .... Refrigerant 22 (Monochlorodifluoromethane) Properties of Superheated Vapor*

Temp F	Abs Pressure 0.20 psi Gage Press 29.51 in. Vac (Sat Temp −155.8 F)			Abs Pressure 0.30 psi Gage Press. 29.31 in. Vac (Sat Temp −148.1 F)			Abs Pressure 0.40 psi Gage Press. 29.11 in. Vac (Sat Temp −142.3 F)			Abs Pressure 0.60 psi Gage Press. 28.70 in. Vac (Sat Temp −133.7 F)			Abs Pressure 0.80 psi Gage Press. 28.29 in. Vac (Sat Temp −127.3 F)		
t	v	h	s	v	h	s	v	h	s	v	h	s	v	h	s
(At Sat)	(188.29)	(86.853)	(0.29985)	(128.68)	(87.746)	(0.29346)	(98.232)	(88.415)	(0.28899)	(67.192)	(89.412)	(0.28281)	(51.341)	(90.161)	(0.27850)
−150	191.91	87.533	0.30207	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
−140	196.13	88.717	0.30553	122.01	88.702	0.29649	98.946	88.688	0.29385	.....	.....	.....	.....	.....	.....
−130	204.35	89.918	0.30953	126.16	89.904	0.30019	102.07	89.890	0.29355	67.970	89.863	0.28418	.....	.....	.....
−120	210.57	91.135	0.31317	140.31	91.123	0.30383	105.18	91.110	0.29720	70.053	91.084	0.28783	52.489	91.058	0.28117
−110	216.79	92.370	0.31675	144.46	92.358	0.30741	108.30	92.346	0.30078	72.136	92.322	0.29143	54.054	92.297	0.28477
−100	223.01	93.621	0.32028	148.61	93.609	0.31094	111.41	93.598	0.30431	74.216	93.576	0.29496	55.618	93.553	0.28831
−90	229.22	94.888	0.32375	152.76	94.878	0.31443	114.53	94.867	0.30779	76.296	94.846	0.29844	57.180	94.825	0.29179
−80	235.44	96.172	0.32718	156.91	96.163	0.31785	117.64	96.153	0.31122	78.375	96.133	0.30188	58.742	96.113	0.29523
−70	241.65	97.473	0.33056	161.05	97.464	0.32123	120.75	97.455	0.31461	80.453	97.436	0.30526	60.303	97.417	0.29862
−60	247.87	98.791	0.33390	165.20	98.782	0.32457	123.86	98.773	0.31795	82.530	98.755	0.30861	61.863	98.738	0.30197
−50	254.08	100.124	0.33720	169.34	100.116	0.32787	126.97	100.108	0.32125	84.607	100.091	0.31191	63.423	100.075	0.30527
−40	260.29	101.475	0.34045	173.49	101.467	0.33113	130.08	101.459	0.32451	86.682	101.443	0.31517	64.981	101.428	0.30854
−30	266.50	102.841	0.34367	177.63	102.834	0.33435	133.19	102.826	0.32773	88.758	102.811	0.31839	66.538	102.797	0.31176
−20	272.71	104.224	0.34686	181.77	104.217	0.33753	136.30	104.210	0.33091	90.833	104.196	0.32158	68.097	104.182	0.31496
−10	278.93	105.623	0.35000	185.92	105.616	0.34067	139.41	105.610	0.33406	92.907	105.596	0.32472	69.654	105.583	0.31810
0	285.14	107.038	0.35311	190.06	107.032	0.34379	142.53	107.025	0.33717	94.980	107.013	0.32784	71.211	107.000	0.32121
10	291.35	108.469	0.35619	194.20	108.463	0.34687	145.63	108.457	0.34025	97.054	108.445	0.33092	72.767	108.433	0.32430
20	297.56	109.916	0.35924	198.34	109.910	0.34992	148.73	109.904	0.34330	99.127	109.893	0.33397	74.323	109.882	0.32735
30	303.76	111.378	0.36225	202.48	111.373	0.35293	151.84	111.368	0.34632	101.20	111.357	0.33699	75.879	111.346	0.33037
40	309.97	112.857	0.36524	206.62	112.852	0.35592	154.95	112.847	0.34931	103.27	112.836	0.33998	77.434	112.826	0.33336
50	316.18	114.351	0.36820	210.76	114.346	0.35888	158.05	114.341	0.35227	105.34	114.331	0.34295	78.989	114.322	0.33633
60	322.39	115.860	0.37114	214.90	115.856	0.36182	161.16	115.851	0.35520	107.42	115.842	0.34588	80.544	115.833	0.33926
70	328.60	117.385	0.37404	219.04	117.381	0.36473	164.27	117.376	0.35811	109.49	117.368	0.34879	82.098	117.359	0.34217

Temp F	Abs Pressure 1.00 psi Gage Press. 27.88 in. Vac (Sat Temp −122.1 F)			Abs Pressure 1.20 psi Gage Press. 27.47 in. Vac (Sat Temp −117.8 F)			Abs Pressure 1.60 psi Gage Press. 26.66 in. Vac (Sat Temp −110.7 F)			Abs Pressure 2.0 psi Gage Press. 25.85 in. Vac (Sat Temp −104.8 F)			Abs Pressure 2.5 psi Gage Press. 24.83 in. Vac (Sat Temp −98.8 F)		
t	v	h	s	v	h	s	v	h	s	v	h	s	v	h	s
(At Sat)	(41.678)	(90.766)	(0.27521)	(35.154)	(91.278)	(0.27255)	(26.879)	(92.119)	(0.26842)	(21.831)	(92.799)	(0.26527)	(17.733)	(93.504)	(0.26216)
−120	41.980	91.033	0.27599	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
−110	43.205	92.273	0.27959	35.972	92.249	0.27538	26.931	92.201	0.26865	.....	.....	.....	.....	.....	.....
−100	44.458	93.530	0.28314	37.019	93.508	0.27891	27.719	93.463	0.27221	22.189	93.417	0.26700	.....	.....	.....
−90	45.711	94.803	0.28663	38.064	94.782	0.28240	28.506	94.739	0.27571	22.771	94.697	0.27051	18.183	94.643	0.26529
−80	46.962	96.093	0.29007	39.019	96.073	0.28585	29.293	96.033	0.27916	23.403	95.993	0.27397	18.690	95.942	0.26875
−70	48.213	97.398	0.29346	40.153	97.379	0.28924	30.078	97.342	0.28257	24.033	97.304	0.27737	19.197	97.257	0.27216
−60	49.463	98.720	0.29681	41.196	98.702	0.29259	30.862	98.667	0.28593	24.662	98.631	0.28074	19.702	98.587	0.27553
−50	50.712	100.058	0.30012	42.238	100.041	0.29590	31.646	100.008	0.28924	25.291	99.974	0.28406	20.207	99.932	0.27886
−40	51.961	101.412	0.30338	43.280	101.396	0.29917	32.429	101.365	0.29251	25.919	101.333	0.28733	20.711	101.293	0.28214
−30	53.209	102.782	0.30661	44.321	102.767	0.30240	33.212	102.737	0.29574	26.546	102.707	0.29057	21.214	102.670	0.28538
−20	54.456	104.168	0.30980	45.362	104.154	0.30559	33.994	104.126	0.29894	27.173	104.097	0.29377	21.717	104.063	0.28859
−10	55.703	105.570	0.31295	46.402	105.556	0.30874	34.776	105.530	0.30209	27.800	105.503	0.29693	22.219	105.470	0.29175
0	56.949	106.988	0.31607	47.441	106.975	0.31186	35.557	106.950	0.30522	28.426	106.925	0.30005	22.721	106.893	0.29488
10	58.195	108.421	0.31915	48.481	108.409	0.31495	36.337	108.385	0.30831	29.051	108.362	0.30318	23.223	108.332	0.29798
20	59.441	109.871	0.32221	49.520	109.859	0.31800	37.118	109.837	0.31136	29.677	109.814	0.30621	23.724	109.786	0.30104
30	60.686	111.336	0.32523	50.558	111.325	0.32102	37.898	111.303	0.31439	30.302	111.282	0.30923	24.225	111.255	0.30407
40	61.931	112.816	0.32822	51.596	112.806	0.32402	38.677	112.785	0.31739	30.926	112.765	0.31223	24.725	112.739	0.30707
50	63.176	114.312	0.33119	52.634	114.302	0.32699	39.457	114.283	0.32035	31.550	114.264	0.31520	25.225	114.239	0.31004
60	64.421	115.823	0.33412	53.672	115.814	0.32992	40.236	115.796	0.32329	32.174	115.777	0.31814	25.725	115.754	0.31299
70	65.665	117.350	0.33703	54.709	117.341	0.33284	41.015	117.324	0.32621	32.798	117.306	0.32106	26.225	117.284	0.31590
80	66.909	118.892	0.33992	55.747	118.883	0.33572	41.794	118.867	0.32909	33.422	118.850	0.32394	26.724	118.829	0.31879
90	68.153	120.449	0.34278	56.784	120.441	0.33858	42.572	120.429	0.33195	34.045	120.409	0.32681	27.224	120.389	0.32165
100	69.397	122.021	0.34561	57.821	122.013	0.34141	43.350	121.998	0.33479	34.668	121.982	0.32964	27.723	121.963	0.32449

Temp F	Abs Pressure 3.0 psi Gage Press. 23.81 in. Vac (Sat Temp −93.8 F)			Abs Pressure 3.5 psi Gage Press. 22.80 in. Vac (Sat Temp −89.4 F)			Abs Pressure 4.0 psi Gage Press. 21.78 in. Vac (Sat Temp −85.4 F)			Abs Pressure 5.0 psi Gage Press. 19.74 in. Vac (Sat Temp −78.6 F)			Abs Pressure 6 psi Gage Press. 17.71 in. Vac (Sat Temp −72.8 F)		
t	v	h	s	v	h	s	v	h	s	v	h	s	v	h	s
(At Sat)	(14.964)	(94.101)	(0.25966)	(12.963)	(94.619)	(0.25757)	(11.448)	(95.079)	(0.25578)	(9.8011)	(95.871)	(0.25283)	(7.8494)	(96.539)	(0.25046)
−90	15.125	94.589	0.26099	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
−80	15.549	95.892	0.26448	13.305	95.841	0.26083	11.622	95.790	0.25767	.....	.....	.....	.....	.....	.....
−70	15.972	97.209	0.26789	13.669	97.162	0.26426	11.942	97.114	0.26111	9.8237	97.018	0.25581	7.9113	96.922	0.25144
−60	16.395	98.543	0.27127	14.033	98.497	0.26765	12.261	98.452	0.26450	9.7810	98.362	0.25921	8.1273	98.272	0.25487
−50	16.817	99.890	0.27460	14.396	99.848	0.27098	12.580	99.806	0.26784	10.038	99.721	0.26257	8.3425	99.636	0.25824
−40	17.238	101.254	0.27789	14.757	101.214	0.27428	12.898	101.174	0.27114	10.293	101.094	0.26588	8.5571	101.014	0.26156
−30	17.659	102.633	0.28113	15.120	102.595	0.27753	13.215	102.558	0.27440	10.549	102.482	0.26915	8.7710	102.407	0.26484
−20	18.079	104.027	0.28434	15.481	103.992	0.28074	13.532	103.956	0.27762	10.803	103.885	0.27238	8.9844	103.814	0.26808
−10	18.499	105.437	0.28751	15.841	105.403	0.28392	13.848	105.370	0.28080	11.058	105.302	0.27557	9.1973	105.235	0.27127
0	18.918	106.861	0.29064	16.201	106.830	0.28706	14.164	106.798	0.28394	11.311	106.735	0.27873	9.4097	106.671	0.27443
10	19.337	108.302	0.29374	16.561	108.272	0.29016	14.479	108.242	0.28705	11.565	108.182	0.28183	9.6217	108.121	0.27755
20	19.755	109.757	0.29681	16.920	109.729	0.29323	14.794	109.700	0.29012	11.818	109.643	0.28491	9.8333	109.586	0.28064
30	20.173	111.228	0.29984	17.279	111.201	0.29627	15.109	111.174	0.29316	12.070	111.120	0.28796	10.045	111.066	0.28369
40	20.591	112.714	0.30285	17.638	112.688	0.29927	15.423	112.663	0.29617	12.323	113.611	0.29097	10.256	112.560	0.28671
50	21.008	114.215	0.30583	17.996	114.191	0.30225	15.737	114.166	0.29915	12.575	114.117	0.29396	10.466	114.068	0.28970
60	21.425	115.731	0.30877	18.354	115.708	0.30520	16.051	115.685	0.30210	12.828	115.638	0.29691	10.677	115.592	0.29266
70	21.843	117.262	0.31169	18.712	117.240	0.30812	16.365	117.218	0.30502	13.078	117.174	0.29984	10.887	117.129	0.29559
80	22.259	118.808	0.31458	19.070	118.787	0.31101	16.678	118.766	0.30792	13.329	118.724	0.30274	11.097	118.681	0.29849
90	22.676	120.369	0.31744	19.428	120.349	0.31388	16.991	120.328	0.31078	13.580	120.288	0.30561	11.307	120.248	0.30137
100	23.092	121.944	0.32028	19.785	121.925	0.31672	17.304	121.906	0.31363	13.831	121.867	0.30845	11.516	121.829	0.30422
110	23.508	123.534	0.32310	20.142	123.516	0.31954	17.617	123.497	0.31645	14.082	123.461	0.31128	11.725	123.424	0.30704
120	23.925	125.139	0.32589	20.499	125.121	0.32233	17.930	125.104	0.31924	14.333	125.069	0.31407	11.935	125.033	0.30984
130	24.340	126.758	0.32866	20.856	126.741	0.32510	18.242	126.724	0.32201	14.583	126.691	0.31685	12.144	126.657	0.31262

* From published data (1964) of E. I. duPont de Nemours & Co., Inc., Used by permission.

Table 10 .... Refrigerant 22 (Monochlorodifluoromethane) Properties of Superheated Vapor* (Continued).

Temp F	Abs Pressure 7 psi Gage Press. 15.67 in. Vac (Sat Temp −67.8 F)			Abs Pressure 8 psi Gage Press. 13.64 in. Vac (Sat Temp −63.3 F)			Abs Pressure 9 psi Gage Press. 11.60 in. Vac (Sat Temp −59.2 F)			Abs Pressure 10 psi Gage Press. 9.57 in. Vac (Sat Temp −55.6 F)			Abs Pressure 11 psi Gage Press. 7.53 in. Vac (Sat Temp −52.2 F)		
t	v	h	s	v	h	s	v	h	s	v	h	s	v	h	s
(At Sat)	(6.8001)	(97.119)	(0.24848)	(6.0050)	(97.633)	(0.24678)	(5.3810)	(98.095)	(0.24531)	(4.8778)	(98.515)	(0.24339)	(4.4630)	(98.901)	(0.24282)
−60	6.9469	98.181	0.25116	6.0599	98.089	0.24793	.....	.....	.....	.....	.....	.....	.....	.....	.....
−50	7.1317	99.550	0.25455	6.2235	99.464	0.25133	5.5171	99.378	0.24847	4.9818	99.291	0.24590	4.4693	99.204	0.24358
−40	7.3168	100.934	0.25788	6.3864	100.853	0.25468	5.6628	100.771	0.25153	5.0838	100.690	0.24927	4.6101	100.605	0.24695
−30	7.5012	102.331	0.26117	6.5488	102.255	0.25798	5.8079	102.178	0.25515	5.2152	102.101	0.25260	4.7302	102.024	0.25028
−20	7.6851	103.742	0.26442	6.7105	103.670	0.26124	5.9523	103.598	0.25841	5.3460	103.526	0.25588	4.8497	103.453	0.25357
−10	7.8684	105.167	0.26762	6.8717	105.100	0.26445	6.0965	105.031	0.26164	5.4763	104.963	0.25911	4.9687	104.895	0.25681
0	8.0513	106.607	0.27079	7.0325	106.543	0.26762	6.2400	106.478	0.26482	5.6060	106.414	0.26230	5.0872	106.349	0.26001
10	8.2338	108.061	0.27392	7.1928	108.000	0.27076	6.3831	107.939	0.26796	5.7353	107.876	0.26545	5.2053	107.817	0.26317
20	8.4159	109.529	0.27701	7.3527	109.471	0.27386	6.5258	109.414	0.27107	5.8643	109.356	0.26858	5.3230	109.298	0.26629
30	8.5978	111.011	0.28007	7.5123	110.957	0.27692	6.6682	110.902	0.27414	5.9929	110.847	0.27164	5.4404	110.792	0.26937
40	8.7795	112.508	0.28310	7.6718	112.456	0.27996	6.8103	112.405	0.27718	6.1212	112.353	0.27468	5.5574	112.300	0.27242
50	8.9609	114.019	0.28609	7.8306	113.970	0.28296	6.9520	113.921	0.28018	6.2492	113.872	0.27769	5.6741	113.822	0.27543
60	9.1419	115.545	0.28906	7.9893	115.498	0.28592	7.0935	115.451	0.28316	6.3769	115.404	0.28067	5.7905	115.357	0.27842
70	9.3217	117.085	0.29199	8.1478	117.040	0.28886	7.2348	116.996	0.28610	6.5044	116.951	0.28362	5.9067	116.906	0.28137
80	9.5021	118.639	0.29490	8.3061	118.597	0.29177	7.3758	118.554	0.28901	6.6316	118.513	0.28654	6.0227	118.469	0.28429
90	9.6823	120.208	0.29778	8.4641	120.167	0.29466	7.5166	120.127	0.29190	6.7586	120.086	0.28943	6.1385	120.045	0.28719
100	9.8623	121.790	0.30063	8.6220	121.752	0.29751	7.6573	121.713	0.29476	6.8855	121.674	0.29229	6.2540	121.636	0.29005
110	10.042	123.387	0.30346	8.7797	123.350	0.30035	7.7977	123.313	0.29760	7.0123	123.276	0.29513	6.3694	123.239	0.29289
120	10.222	124.998	0.30626	8.9372	124.963	0.30315	7.9380	124.928	0.30040	7.1387	124.892	0.29794	6.4847	124.857	0.29571
130	10.401	126.623	0.30904	9.0946	126.590	0.30593	8.0783	126.556	0.30319	7.2651	126.522	0.30073	6.5998	126.488	0.29850
140	10.581	128.262	0.31180	9.2519	128.230	0.30869	8.2182	128.196	0.30595	7.3913	128.163	0.30349	6.7147	128.130	0.30126
150	10.760	129.915	0.31453	9.4090	129.885	0.31143	8.3581	129.854	0.30869	7.5174	129.822	0.30623	6.8296	129.791	0.30401
160	10.939	131.582	0.31724	9.5660	131.553	0.31414	8.4979	131.523	0.31140	7.6434	131.493	0.30895	6.9443	131.463	0.30673

Temp F	Abs Pressure 12 psi Gage Press. 5.50 in. Vac (Sat Temp −48.9 F)			Abs Pressure 13 psi Gage Press. 2.43 in. Vac (Sat Temp −46.6 F)			Abs Pressure 14 psi Gage Press. 1.42 in. Vac (Sat Temp −43.2 F)			Abs Pressure 15 psi Gage Press. 0.30 psi (Sat Temp −40.6 F)			Abs Pressure 16 psi Gage Press. 1.3 psi (Sat Temp −38.1 F)		
t	v	h	s	v	h	s	v	h	s	v	h	s	v	h	s
(At Sat)	(4.1161)	(99.258)	(0.24175)	(3.8190)	(99.591)	(0.24078)	(3.5636)	(99.902)	(0.23989)	(3.3417)	(100.194)	(0.23906)	(3.1456)	(100.471)	(0.23829)
−40	4.2152	100.525	0.24481	3.8811	100.442	0.24283	3.6048	100.359	0.24098	3.3463	100.278	0.23923	.....	.....	.....
−30	4.3250	101.947	0.24815	3.9839	101.869	0.24618	3.6967	101.790	0.24435	3.4265	101.712	0.24263	3.2141	101.633	0.24102
−20	4.4282	103.380	0.25145	4.0862	103.307	0.24949	3.7862	103.233	0.24767	3.5261	103.159	0.24596	3.2988	103.085	0.24436
−10	4.5458	104.826	0.25470	4.1879	104.757	0.25275	3.8811	104.687	0.25094	3.6152	104.618	0.24924	3.3824	104.548	0.24765
0	4.6549	106.284	0.25791	4.2891	106.219	0.25597	3.9755	106.154	0.25418	3.7037	106.088	0.25248	3.4658	106.022	0.25089
10	4.7636	107.755	0.26108	4.3899	107.694	0.25914	4.0695	107.632	0.25735	3.7918	107.570	0.25567	3.5488	107.508	0.25409
20	4.8719	109.240	0.26420	4.4902	109.182	0.26228	4.1630	109.123	0.26049	3.8794	109.065	0.25882	3.6313	109.006	0.25725
30	4.9799	110.737	0.26729	4.5902	110.683	0.26537	4.2562	110.627	0.26359	3.9667	110.571	0.26192	3.7134	110.516	0.26036
40	5.0875	112.248	0.27035	4.6899	112.196	0.26843	4.3491	112.143	0.26666	4.0537	112.091	0.26500	3.7953	112.038	0.26344
50	5.1948	113.773	0.27337	4.7893	113.723	0.27146	4.4417	113.673	0.26969	4.1404	113.623	0.26803	3.8768	113.573	0.26648
60	5.3019	115.313	0.27636	4.8884	115.263	0.27445	4.5340	115.216	0.27268	4.2268	115.168	0.27103	3.9580	115.121	0.26949
70	5.4087	116.862	0.27931	4.9872	116.817	0.27741	4.6260	116.772	0.27565	4.3129	116.727	0.27400	4.0390	116.681	0.27246
80	5.5153	118.425	0.28224	5.0859	118.384	0.28034	4.7178	118.341	0.27858	4.3989	118.298	0.27694	4.1197	118.255	0.27540
90	5.6216	120.005	0.28514	5.1843	119.964	0.28324	4.8094	119.923	0.28149	4.4846	119.882	0.27985	4.2003	119.841	0.27832
100	5.7278	121.597	0.28801	5.2825	121.558	0.28612	4.9009	121.519	0.28437	4.5701	121.480	0.28273	4.2806	121.441	0.28120
110	5.8338	123.202	0.29085	5.3806	123.165	0.28896	4.9923	123.128	0.28722	4.6554	123.091	0.28559	4.3608	123.054	0.28406
120	5.9396	124.822	0.29367	5.4785	124.786	0.29178	5.0833	124.751	0.29004	4.7406	124.715	0.28841	4.4408	124.679	0.28689
130	6.0453	126.454	0.29646	5.5762	126.420	0.29458	5.1741	126.386	0.29284	4.8256	126.352	0.29121	4.5207	126.318	0.28969
140	6.1509	128.101	0.29923	5.6738	128.068	0.29735	5.2649	128.036	0.29561	4.9105	128.003	0.29399	4.6004	127.970	0.29247
150	6.2563	129.760	0.30197	5.7713	129.729	0.30010	5.3556	129.698	0.29836	4.9953	129.667	0.29674	4.6800	129.636	0.29522
160	6.3617	131.433	0.30469	5.8687	131.404	0.30282	5.4461	131.374	0.30109	5.0799	131.344	0.29947	4.7594	131.314	0.29793
170	6.4669	133.120	0.30739	5.9659	133.091	0.30552	5.5365	133.062	0.30380	5.1644	133.034	0.30217	4.8388	133.005	0.30065
180	6.5720	134.820	0.31007	6.0631	134.793	0.30820	5.6269	134.765	0.30647	5.2488	134.737	0.30486	4.9181	134.710	0.30334

Temp F	Abs Pressure 18 psi Gage Press. 3.3 psi (Sat Temp −33.4 F)			Abs Pressure 20 psi Gage Press. 5.3 psi (Sat Temp −29.1 F)			Abs Pressure 22 psi Gage Press. 7.3 psi (Sat Temp −25.2 F)			Abs Pressure 24 psi Gage Press. 9.3 psi (Sat Temp −21.2 F)			Abs Pressure 26 psi Gage Press. 11.3 psi (Sat Temp −18.0 F)		
t	v	h	s	v	h	s	v	h	s	v	h	s	v	h	s
(At Sat)	(2.8174)	(100.981)	(0.23689)	(2.5527)	(101.444)	(0.23566)	(2.3345)	(101.868)	(0.23455)	(2.1513)	(102.259)	(0.23355)	(1.9954)	(102.622)	(0.23263)
−30	2.8433	101.474	0.23805	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
−20	2.9412	102.936	0.24141	2.6156	102.785	0.23874	2.3672	102.633	0.23630	2.1600	102.480	0.23405	.....	.....	.....
−10	2.0945	104.407	0.24472	2.6841	104.266	0.24207	2.4301	104.123	0.23965	2.2183	103.980	0.23742	2.0391	103.835	0.23535
0	3.0694	105.890	0.24798	2.7521	105.756	0.24535	2.4925	105.622	0.24295	2.2761	105.487	0.24074	2.0929	105.351	0.23869
10	3.1437	107.383	0.25119	2.8196	107.257	0.24858	2.5544	107.131	0.24620	2.3333	107.003	0.24400	2.1462	106.875	0.24197
20	3.2177	108.888	0.25436	2.8867	108.769	0.25177	2.6159	108.650	0.24940	2.3901	108.529	0.24722	2.1991	108.409	0.24520
30	3.2912	110.404	0.25749	2.9534	110.292	0.25491	2.6770	110.179	0.25253	2.4466	110.065	0.25039	2.2516	109.951	0.24838
40	3.3644	111.932	0.26058	3.0198	111.826	0.25801	2.7377	111.719	0.25567	2.5026	111.612	0.25351	2.3037	111.504	0.25152
50	3.4374	113.473	0.26363	3.0858	113.372	0.26107	2.7981	113.271	0.25874	2.5584	113.169	0.25660	2.3555	113.067	0.25462
60	3.5100	115.026	0.26665	3.1516	114.930	0.26410	2.8583	114.834	0.26178	2.6138	114.737	0.25965	2.4070	114.640	0.25767
70	3.5824	116.591	0.26963	3.2171	116.500	0.26709	2.9182	116.409	0.26478	2.6690	116.317	0.26266	2.4582	116.225	0.26069
80	3.6545	118.169	0.27258	3.2823	118.082	0.27005	2.9778	117.995	0.26775	2.7240	117.908	0.26563	2.5092	117.821	0.26368
90	3.7265	119.759	0.27551	3.3474	119.677	0.27298	3.0373	119.594	0.27068	2.7787	119.511	0.26858	2.5600	119.428	0.26663
100	3.7982	121.363	0.27840	3.4122	121.284	0.27588	3.0964	121.205	0.27359	2.8333	121.126	0.27149	2.6106	121.047	0.26955
110	3.8698	122.979	0.28126	3.4769	122.904	0.27874	3.1553	122.829	0.27648	2.8876	122.753	0.27437	2.6610	122.678	0.27244
120	3.9412	124.608	0.28409	3.5414	124.536	0.28159	3.2144	124.465	0.27931	2.9417	124.393	0.27722	2.7112	124.