the vacuum. An accurate reading cannot be made with a refrigeration gauge.

14. Check for System Leaks

Check the system for leaks using normal service practices.

15. Charge System with Genetron® 407C

When charging the system with Genetron® 407C, it is important to remember that this product is a blend and not an azeotrope. For this reason, special charging procedures are required to ensure optimal system performance.

It is essential when using Genetron® 407C that the system be liquid-charged by removing only liquid from the cylinder. Never charge the system with vapor from a Genetron® 407C cylinder. Vapor-charging Genetron® 407C may result in the wrong refrigerant composition and could damage the system.

A throttling valve should be used to control the flow of refrigerant to the suction side to prevent slugs from entering the compressor. NOTE: To prevent compressor damage, do not charge liquid into the suction line of the unit.

Systems being charged with Genetron® 407C require a smaller charge size than those using HCFC-22. The charge typically will be about 95 percent by weight of the original HCFC-22 charge.

Honeywell recommends initially charging the system with 85 percent by weight of the original HCFC-22 charge. For an air conditioning application, if the original HCFC-22 charge was 10 pounds, initially charge 8.5 pounds of Genetron® 407C. If the original HCFC-22 charge was 1000 grams, initially charge 850 grams of Genetron® 407C.

16. Check System Operation

Start the system and let conditions stabilize. If the system is undercharged, add additional Genetron® 407C in increments of 5 percent by weight of the original HCFC-22 charge. For example, if the original charge was 10 pounds, charge in increments of 0.5 pounds. If the original charge was 1000 grams, charge in increments of 50 grams. Continue until desired operating conditions are achieved.

Use dew-point pressure as a reference in determining the appropriate saturated temperature for a superheat setting. To determine the saturated temperature for a subcooling calculation, use bubble-point pressure.

Compressor suction pressures for the Genetron® 407C after stabilization should be similar to that of normal system operating pressure with HCFC-22 for most applications. Compressor discharge pressures typically will be higher (5–10%) than normal system operation with HCFC-22.

It may be necessary to reset the high pressure cutout to compensate for the higher discharge pressures of the Genetron® 407C system. This procedure should be done carefully to avoid exceeding the recommended operating limits of the compressor and other system components.

To avoid overcharging, it is best to charge the system by first measuring the operating conditions (including discharge and suction pressures, suction line temperature, compressor amps, super heat) before using the liquid-level sight glass as a guide.

17. Label Components and System

After retrofitting the system with Genetron® 407C, label the system components to identify the type of refrigerant (Genetron® 407C) and specify type of lubricant (by brand name) and viscosity grade in the system. This will help ensure that the proper refrigerant and lubricant will be used to service the equipment in the future.

Retrofit Checklist for Genetron® 407C

1. Record baseline data on original system performance _____
2. Recover HCFC-22 refrigerant charge using appropriate recovery equipment or pump down into receiver. _____
   *Record the amount of HCFC-22 removed. _____
3. Choose compressor lubricant. _____
4. Drain at least 90 percent of the lubricant from the compressor. _____
5. Measure amount of lubricant removed. _____
6. Recharge compressor with polyol ester lubricant. _____
   *Use the same amount that was removed from the existing system. _____
7. Reinstall compressor. _____
8. Recharge the original HCFC-22. _____
9. Run the System. _____
10. Repeat Flushing Procedure (steps 4-9). _____
11. Evaluate expansion device. _____
    Consult equipment manufacturers first. No change is necessary in most cases.
12. Replace filter drier with new drier approved for use with Genetron 407C. _____
13. Reconnect system and evacuate. _____
14. Check system for leaks. _____
    (Re-evaluate system following leak check).
15. Charge system with Genetron 407C. _____
    ALWAYS REMOVE LIQUID ONLY FROM CYLINDER
    Use correct charge size. _____
    *Initial charge 85 percent by weight of original HCFC-22 charge. _____
    *Record amount of refrigerant charged. _____
16. Check system operation. _____
    *Adjust charge to achieve desired operating conditions. _____
    *If low, remove liquid only from cylinder in increments of 5 percent of original HCFC-22 charge _____
17. Label components and system for type of refrigerant, i.e. Genetron 407C and lubricant. _____

Recycling and Reclamation

The Clean Air Act Amendments of 1990 require mandatory recycling and reclamation of Genetron® 407C during maintenance, service or repair of air-conditioning and refrigeration equipment. Your Genetron® Wholesaler offers a refrigeration reclamation program for Genetron® 407C.

For the name of your nearest Genetron® Wholesaler, call 1-800-631-8138.

Environmental Considerations

Genetron® 407C is a halogenated hydrocarbon. Treatment or disposal of wastes generated by use of this product may require special consideration, depending on the nature of the wastes and the means of discharge, treatment or disposal. For more information, refer to the Material Safety Data Sheet (MSDS).

If discarded unused, Genetron® 407C is not considered a "hazardous waste" by the Resource Conservation Recovery Act (RCRA). Because Genetron® 407C is considered to have minimum biodegradability, care should be taken to avoid releases to the environment.

The disposal of Genetron® 407C may be subject to federal, state and local regulations. Users should conduct disposal operations in compliance with applicable federal, state and local laws and regulations. Appropriate regulatory agencies also should be consulted before discharging or disposing of waste materials.

Available Literature/Technical Assistance

Honeywell has a wide range of literature available for all of its environmentally safer Genetron® products, covering such topics as reclamation, retrofitting guidelines, product specifications and technical properties. Much of this information is available online at www.genetron®.com. In addition, Honeywell technical specialists are available to assist you in all phases of using Genetron® 407C – especially retrofitting, handling and storage and applications assistance. For further information, please write us at:

Honeywell
Genetron® Refrigerants
P.O. Box 1053
Morristown, NJ 07962-1053
Or call us at 1-800-631-8138

407C Thermodynamic Table - English Units

Temp. (°F)	Bubble Pressure (Liquid) (psia)	Dew Pressure (Vapor) (psia)	Vapor Volume (ft³/lb)	Liquid Density (lb/ft³)	Liquid Enthalpy (Btu/lb)	Enthalpy Δ H (Btu/lb)	Vapor Enthalpy (Btu/lb)	Liquid Entropy (Btu/lb-F)	Vapor Entropy (Btu/lb-F)
-40	17.4	12.4	4.0515	85.50	0.00	104.25	104.25	0.0000	0.2524
-38	18.4	13.1	3.8437	85.28	0.63	103.90	104.53	0.0015	0.2518
-36	19.3	13.9	3.6486	85.06	1.26	103.55	104.81	0.0030	0.2512
-34	20.3	14.7	3.4653	84.85	1.90	103.19	105.09	0.0045	0.2507
-32	21.3	15.5	3.2931	84.63	2.53	102.84	105.37	0.0060	0.2501
-30	22.4	16.3	3.1311	84.41	3.17	102.47	105.64	0.0074	0.2496
-28	23.5	17.2	2.9786	84.19	3.80	102.12	105.92	0.0089	0.2491
-26	24.7	18.1	2.835	83.97	4.44	101.76	106.20	0.0104	0.2485
-24	25.9	19.1	2.6997	83.75	5.08	101.39	106.47	0.0118	0.2480
-22	27.1	20.1	2.5722	83.53	5.72	101.02	106.74	0.0133	0.2475
-20	28.4	21.2	2.4519	83.31	6.36	100.65	107.01	0.0147	0.2471
-18	29.8	22.2	2.3383	83.09	7.00	100.28	107.28	0.0162	0.2466
-16	31.2	23.4	2.231	82.86	7.64	99.91	107.55	0.0176	0.2461
-14	32.6	24.6	2.1296	82.64	8.29	99.53	107.82	0.0191	0.2456
-12	34.1	25.8	2.0338	82.41	8.93	99.16	108.09	0.0205	0.2452
-10	35.6	27.0	1.9431	82.19	9.58	98.77	108.35	0.0219	0.2447
-8	37.2	28.4	1.8572	81.96	10.22	98.40	108.62	0.0234	0.2443
-6	38.9	29.7	1.7759	81.73	10.87	98.01	108.88	0.0248	0.2439
-4	40.6	31.1	1.6989	81.50	11.52	97.62	109.14	0.0262	0.2434
-2	42.4	32.6	1.6259	81.27	12.17	97.24	109.41	0.0276	0.2430
0	44.2	34.1	1.5566	81.04	12.83	96.83	109.66	0.0291	0.2426
2	46.1	35.7	1.4909	80.81	13.48	96.44	109.92	0.0305	0.2422
4	48.0	37.3	1.4284	80.57	14.14	96.04	110.18	0.0319	0.2418
6	50.0	39.0	1.3691	80.34	14.79	95.64	110.43	0.0333	0.2414
8	52.1	40.8	1.3128	80.10	15.45	95.24	110.69	0.0347	0.2410
10	54.2	42.6	1.2592	79.87	16.11	94.83	110.94	0.0361	0.2406
12	56.4	44.4	1.2082	79.63	16.77	94.42	111.19	0.0375	0.2403
14	58.7	46.4	1.1597	79.39	17.43	94.01	111.44	0.0389	0.2399
16	61.0	48.4	1.1135	79.15	18.10	93.59	111.69	0.0402	0.2395
18	63.4	50.4	1.0695	78.91	18.76	93.17	111.93	0.0416	0.2392
20	65.9	52.6	1.0276	78.66	19.43	92.75	112.18	0.0430	0.2388
22	68.5	54.8	0.9876	78.42	20.10	92.32	112.42	0.0444	0.2385
24	71.1	57.0	0.9495	78.17	20.77	91.89	112.66	0.0458	0.2381
26	73.8	59.4	0.9131	77.93	21.44	91.46	112.90	0.0471	0.2378
28	76.6	61.8	0.8784	77.68	22.11	91.02	113.13	0.0485	0.2375
30	79.4	64.3	0.8453	77.43	22.79	90.58	113.37	0.0499	0.2371
32	82.4	66.8	0.8136	77.17	23.47	90.13	113.60	0.0512	0.2368
34	85.4	69.5	0.7833	76.92	24.15	89.68	113.83	0.0526	0.2365
36	88.5	72.2	0.7544	76.67	24.83	89.23	114.06	0.0540	0.2362
38	91.7	75.0	0.7267	76.41	25.51	88.77	114.28	0.0553	0.2358
40	94.9	77.9	0.7002	76.15	26.20	88.31	114.51	0.0567	0.2355
42	98.3	80.8	0.6748	75.89	26.88	87.85	114.73	0.0580	0.2352
44	101.7	83.9	0.6505	75.63	27.57	87.38	114.95	0.0594	0.2349
46	105.3	87.0	0.6273	75.37	28.26	86.91	115.17	0.0607	0.2346
48	108.9	90.2	0.605	75.10	28.96	86.42	115.38	0.0621	0.2343
50	112.6	93.5	0.5836	74.83	29.65	85.94	115.59	0.0634	0.2340
52	116.4	96.9	0.5631	74.57	30.35	85.45	115.80	0.0648	0.2337
54	120.3	100.4	0.5435	74.29	31.05	84.96	116.01	0.0661	0.2334
56	124.3	104.0	0.5246	74.02	31.75	84.46	116.21	0.0675	0.2331
58	128.4	107.7	0.5065	73.75	32.45	83.96	116.41	0.0688	0.2328
60	132.6	111.5	0.4891	73.47	33.16	83.45	116.61	0.0702	0.2325

407C Thermodynamic Table - English Units

Temp. (°F)	Bubble Pressure (Liquid) (psia)	Dew Pressure (Vapor) (psia)	Vapor Volume (ft³/lb)	Liquid Density (lb/ft³)	Liquid Enthalpy (Btu/lb)	Enthalpy Δ H (Btu/lb)	Vapor Enthalpy (Btu/lb)	Liquid Entropy (Btu/lb-F)	Vapor Entropy (Btu/lb-F)
62	136.9	115.4	0.4724	73.19	33.87	82.94	116.81	0.0715	0.2322
64	141.4	119.4	0.4564	72.91	34.58	82.42	117.00	0.0728	0.2320
66	145.9	123.5	0.4409	72.62	35.30	81.89	117.19	0.0742	0.2317
68	150.5	127.7	0.4261	72.33	36.01	81.37	117.38	0.0755	0.2314
70	155.2	132.0	0.4118	72.05	36.73	80.83	117.56	0.0769	0.2311
72	160.1	136.4	0.3981	71.75	37.46	80.28	117.74	0.0782	0.2308
74	165.0	140.9	0.3849	71.46	38.18	79.73	117.91	0.0795	0.2305
76	170.1	145.6	0.3722	71.16	38.91	79.18	118.09	0.0809	0.2302
78	175.2	150.3	0.3599	70.86	39.64	78.61	118.25	0.0822	0.2299
80	180.5	155.2	0.3481	70.56	40.37	78.05	118.42	0.0835	0.2297
82	185.9	160.2	0.3367	70.25	41.11	77.47	118.58	0.0849	0.2294
84	191.5	165.3	0.3257	69.94	41.85	76.89	118.74	0.0862	0.2291
86	197.1	170.6	0.3152	69.63	42.60	76.29	118.89	0.0876	0.2288
88	202.9	175.9	0.305	69.31	43.34	75.70	119.04	0.0889	0.2285
90	208.8	181.4	0.2951	68.99	44.09	75.09	119.18	0.0902	0.2282
92	214.8	187.0	0.2856	68.67	44.85	74.47	119.32	0.0916	0.2279
94	221.0	192.8	0.2765	68.35	45.60	73.85	119.45	0.0929	0.2276
96	227.2	198.6	0.2676	68.01	46.37	73.21	119.58	0.0943	0.2273
98	233.6	204.7	0.259	67.68	47.13	72.58	119.71	0.0956	0.2270
100	240.2	210.8	0.2508	67.34	47.90	71.93	119.83	0.0970	0.2267
102	246.9	217.1	0.2428	67.00	48.68	71.26	119.94	0.0983	0.2264
104	253.7	223.6	0.2351	66.65	49.45	70.60	120.05	0.0996	0.2261
106	260.6	230.1	0.2276	66.30	50.24	69.91	120.15	0.1010	0.2258
108	267.7	236.9	0.2203	65.94	51.02	69.23	120.25	0.1024	0.2254
110	274.9	243.7	0.2133	65.58	51.81	68.53	120.34	0.1037	0.2251
112	282.3	250.8	0.2066	65.22	52.61	67.81	120.42	0.1051	0.2248
114	289.8	258.0	0.2	64.84	53.41	67.09	120.50	0.1064	0.2244
116	297.5	265.3	0.1936	64.47	54.22	66.35	120.57	0.1078	0.2241
118	305.3	272.8	0.1875	64.08	55.03	65.60	120.63	0.1092	0.2237
120	313.3	280.5	0.1815	63.69	55.85	64.83	120.68	0.1105	0.2234
122	321.4	288.3	0.1757	63.30	56.67	64.06	120.73	0.1119	0.2230
124	329.7	296.3	0.1701	62.89	57.50	63.26	120.76	0.1133	0.2226
126	338.1	304.5	0.1646	62.48	58.34	62.45	120.79	0.1147	0.2223
128	346.7	312.8	0.1593	62.07	59.18	61.63	120.81	0.1161	0.2219
130	355.4	321.3	0.1542	61.64	60.03	60.79	120.82	0.1175	0.2215
132	364.3	330.1	0.1492	61.21	60.89	59.93	120.82	0.1189	0.2210
134	373.4	338.9	0.1443	60.76	61.76	59.05	120.81	0.1203	0.2206
136	382.7	348.0	0.1396	60.31	62.63	58.15	120.78	0.1217	0.2202
138	392.1	357.3	0.135	59.85	63.52	57.23	120.75	0.1232	0.2197
140	401.6	366.8	0.1305	59.37	64.41	56.29	120.70	0.1246	0.2192
142	411.4	376.4	0.1262	58.89	65.31	55.32	120.63	0.1261	0.2188
144	421.3	386.3	0.1219	58.39	66.22	54.34	120.56	0.1275	0.2182
146	431.4	396.4	0.1178	57.88	67.15	53.31	120.46	0.1290	0.2177
148	441.7	406.7	0.1137	57.35	68.08	52.27	120.35	0.1305	0.2172

407C Thermodynamic Table - SI Units

Temp. (°C)	Bubble Pressure (Liquid) (kPa)	Dew Pressure (Vapor) (kPa)	Vapor Volume (m^3/kg)	Liquid Density (kg/m^3)	Liquid Enthalpy (kJ/kg)	Enthalpy Δ H (kJ/kg)	Vapor Enthalpy (kJ/kg)	Liquid Entropy (kJ/kg-C)	Vapor Entropy (kJ/kg-C)
-40	120	86	0.2529	1370	145.45	242.33	387.78	0.7856	1.8415
-39	126	90	0.2412	1366	146.77	241.60	388.37	0.7913	1.8393
-38	132	95	0.2302	1363	148.09	240.86	388.95	0.7969	1.8372
-37	138	99	0.2197	1360	149.42	240.11	389.53	0.8025	1.8351
-36	144	104	0.2098	1357	150.74	239.38	390.12	0.8081	1.8330
-35	151	110	0.2004	1354	152.07	238.62	390.69	0.8136	1.8310
-34	158	115	0.1916	1351	153.40	237.87	391.27	0.8192	1.8290
-33	165	121	0.1832	1348	154.73	237.12	391.85	0.8247	1.8270
-32	172	126	0.1753	1344	156.07	236.35	392.42	0.8302	1.8251
-31	179	132	0.1677	1341	157.40	235.60	393.00	0.8357	1.8232
-30	187	139	0.1606	1338	158.74	234.83	393.57	0.8412	1.8213
-29	195	145	0.1538	1335	160.08	234.05	394.13	0.8467	1.8195
-28	203	152	0.1474	1332	161.42	233.28	394.70	0.8522	1.8177
-27	212	159	0.1413	1328	162.77	232.49	395.26	0.8576	1.8159
-26	221	166	0.1354	1325	164.11	231.72	395.83	0.8630	1.8142
-25	230	173	0.1299	1322	165.46	230.93	396.39	0.8684	1.8124
-24	239	181	0.1247	1319	166.81	230.13	396.94	0.8739	1.8107
-23	249	189	0.1197	1315	168.16	229.34	397.50	0.8792	1.8091
-22	259	197	0.1149	1312	169.52	228.53	398.05	0.8846	1.8074
-21	269	206	0.1104	1309	170.88	227.72	398.60	0.8900	1.8058
-20	280	215	0.1061	1306	172.24	226.91	399.15	0.8953	1.8042
-19	291	224	0.1019	1302	173.60	226.10	399.70	0.9007	1.8026
-18	302	233	0.0980	1299	174.96	225.28	400.24	0.9060	1.8011
-17	314	243	0.0943	1296	176.33	224.45	400.78	0.9113	1.7995
-16	326	253	0.0907	1292	177.70	223.62	401.32	0.9166	1.7980
-15	338	263	0.0873	1289	179.07	222.78	401.85	0.9219	1.7965
-14	351	274	0.0840	1285	180.45	221.94	402.39	0.9272	1.7951
-13	364	285	0.0809	1282	181.82	221.10	402.92	0.9324	1.7936
-12	377	296	0.0780	1279	183.20	220.24	403.44	0.9377	1.7922
-11	391	308	0.0751	1275	184.59	219.37	403.96	0.9429	1.7908
-10	405	320	0.0724	1272	185.97	218.52	404.49	0.9482	1.7894
-9	419	332	0.0698	1268	187.36	217.64	405.00	0.9534	1.7880
-8	434	345	0.0673	1265	188.75	216.77	405.52	0.9586	1.7867
-7	449	358	0.0649	1261	190.15	215.88	406.03	0.9638	1.7853
-6	465	371	0.0626	1258	191.55	214.98	406.53	0.9690	1.7840
-5	481	385	0.0605	1254	192.95	214.09	407.04	0.9742	1.7827
-4	498	400	0.0584	1251	194.35	213.19	407.54	0.9794	1.7814
-3	514	414	0.0563	1247	195.76	212.28	408.04	0.9845	1.7801
-2	532	429	0.0544	1243	197.17	211.36	408.53	0.9897	1.7789
-1	550	445	0.0526	1240	198.58	210.44	409.02	0.9949	1.7776
0	568	461	0.0508	1236	200.00	209.51	409.51	1.0000	1.7764
1	587	477	0.0491	1233	201.42	208.57	409.99	1.0051	1.7752
2	606	494	0.0475	1229	202.84	207.63	410.47	1.0103	1.7740
3	625	511	0.0459	1225	204.27	206.67	410.94	1.0154	1.7728
4	645	529	0.0444	1221	205.70	205.71	411.41	1.0205	1.7716
5	666	547	0.0429	1218	207.14	204.74	411.88	1.0256	1.7704
6	687	566	0.0415	1214	208.58	203.76	412.34	1.0307	1.7692
7	709	585	0.0402	1210	210.02	202.77	412.79	1.0358	1.7681
8	731	604	0.0389	1206	211.47	201.78	413.25	1.0409	1.7669
9	753	624	0.0376	1203	212.92	200.77	413.69	1.0460	1.7658
10	776	645	0.0364	1199	214.37	199.77	414.14	1.0511	1.7647
11	800	666	0.0353	1195	215.83	198.75	414.58	1.0561	1.7636
12	824	688	0.0342	1191	217.29	197.72	415.01	1.0612	1.7624

407C Thermodynamic Table - SI Units

Temp. (°C)	Bubble Pressure (Liquid) (kPa)	Dew Pressure (Vapor) (kPa)	Vapor Volume (m³/kg)	Liquid Density (kg/m³)	Liquid Enthalpy (kJ/kg)	Enthalpy Δ H (kJ/kg)	Vapor Enthalpy (kJ/kg)	Liquid Entropy (kJ/kg-C)	Vapor Entropy (kJ/kg-C)
13	849	710	0.0331	1187	218.76	196.68	415.44	1.0663	1.7613
14	874	732	0.0321	1183	220.23	195.63	415.86	1.0713	1.7602
15	900	756	0.0311	1179	221.71	194.57	416.28	1.0764	1.7591
16	926	779	0.0301	1175	223.19	193.50	416.69	1.0814	1.7580
17	953	804	0.0292	1171	224.68	192.42	417.10	1.0865	1.7570
18	981	829	0.0283	1167	226.17	191.33	417.50	1.0915	1.7559
19	1009	854	0.0274	1163	227.66	190.23	417.89	1.0966	1.7548
20	1038	880	0.0266	1159	229.16	189.12	418.28	1.1016	1.7537
21	1067	907	0.0258	1155	230.67	187.99	418.66	1.1067	1.7526
22	1097	934	0.0250	1150	232.18	186.86	419.04	1.1117	1.7516
23	1127	962	0.0243	1146	233.69	185.72	419.41	1.1167	1.7505
24	1159	991	0.0236	1142	235.21	184.56	419.77	1.1218	1.7494
25	1190	1020	0.0229	1137	236.74	183.39	420.13	1.1268	1.7483
26	1223	1050	0.0222	1133	238.27	182.21	420.48	1.1318	1.7472
27	1256	1080	0.0215	1129	239.81	181.01	420.82	1.1369	1.7462
28	1290	1112	0.0209	1124	241.35	179.81	421.16	1.1419	1.7451
29	1324	1143	0.0203	1120	242.90	178.58	421.48	1.1469	1.7440
30	1359	1176	0.0197	1115	244.46	177.34	421.80	1.1520	1.7429
31	1395	1209	0.0191	1111	246.02	176.09	422.11	1.1570	1.7418
32	1431	1243	0.0186	1106	247.59	174.82	422.41	1.1621	1.7407
33	1469	1278	0.0180	1102	249.17	173.54	422.71	1.1671	1.7396
34	1506	1313	0.0175	1097	250.75	172.24	422.99	1.1722	1.7385
35	1545	1349	0.0170	1092	252.34	170.93	423.27	1.1772	1.7373
36	1584	1386	0.0165	1087	253.94	169.59	423.53	1.1823	1.7362
37	1624	1424	0.0160	1083	255.54	168.25	423.79	1.1873	1.7350
38	1665	1462	0.0156	1078	257.15	166.89	424.04	1.1924	1.7339
39	1707	1501	0.0151	1073	258.77	165.50	424.27	1.1975	1.7327
40	1749	1541	0.0147	1068	260.40	164.10	424.50	1.2025	1.7315
41	1792	1582	0.0143	1063	262.04	162.67	424.71	1.2076	1.7303
42	1836	1624	0.0138	1057	263.68	161.24	424.92	1.2127	1.7291
43	1881	1666	0.0135	1052	265.34	159.77	425.11	1.2178	1.7279
44	1926	1709	0.0131	1047	267.00	158.29	425.29	1.2230	1.7266
45	1972	1754	0.0127	1042	268.67	156.78	425.45	1.2281	1.7254
46	2019	1799	0.0123	1036	270.35	155.25	425.60	1.2332	1.7241
47	2067	1845	0.0120	1031	272.04	153.70	425.74	1.2384	1.7228
48	2116	1891	0.0116	1025	273.75	152.12	425.87	1.2435	1.7215
49	2166	1939	0.0113	1020	275.46	150.52	425.98	1.2487	1.7201
50	2216	1988	0.0110	1014	277.18	148.89	426.07	1.2539	1.7187
51	2267	2037	0.0107	1008	278.92	147.23	426.15	1.2591	1.7173
52	2319	2088	0.0103	1002	280.67	145.55	426.22	1.2643	1.7159
53	2372	2139	0.0100	996	282.43	143.83	426.26	1.2696	1.7144
54	2426	2192	0.0098	990	284.20	142.09	426.29	1.2748	1.7129
55	2481	2245	0.0095	984	285.99	140.30	426.29	1.2801	1.7113
56	2537	2300	0.0092	978	287.79	138.49	426.28	1.2854	1.7097
57	2594	2356	0.0089	971	289.61	136.64	426.25	1.2908	1.7081
58	2651	2412	0.0087	965	291.44	134.75	426.19	1.2961	1.7064
59	2710	2470	0.0084	958	293.29	132.82	426.11	1.3015	1.7047
60	2769	2529	0.0082	951	295.16	130.85	426.01	1.3069	1.7029
61	2830	2589	0.0079	944	297.05	128.82	425.87	1.3124	1.7011
62	2891	2650	0.0077	937	298.96	126.76	425.72	1.3179	1.6992
63	2954	2712	0.0074	930	300.88	124.65	425.53	1.3235	1.6972
64	3017	2775	0.0072	922	302.83	122.48	425.31	1.3290	1.6952
65	3081	2840	0.0070	914	304.81	120.24	425.05	1.3347	1.6931
66	3147	2906	0.0068	906	306.81	117.95	424.76	1.3404	1.6909
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