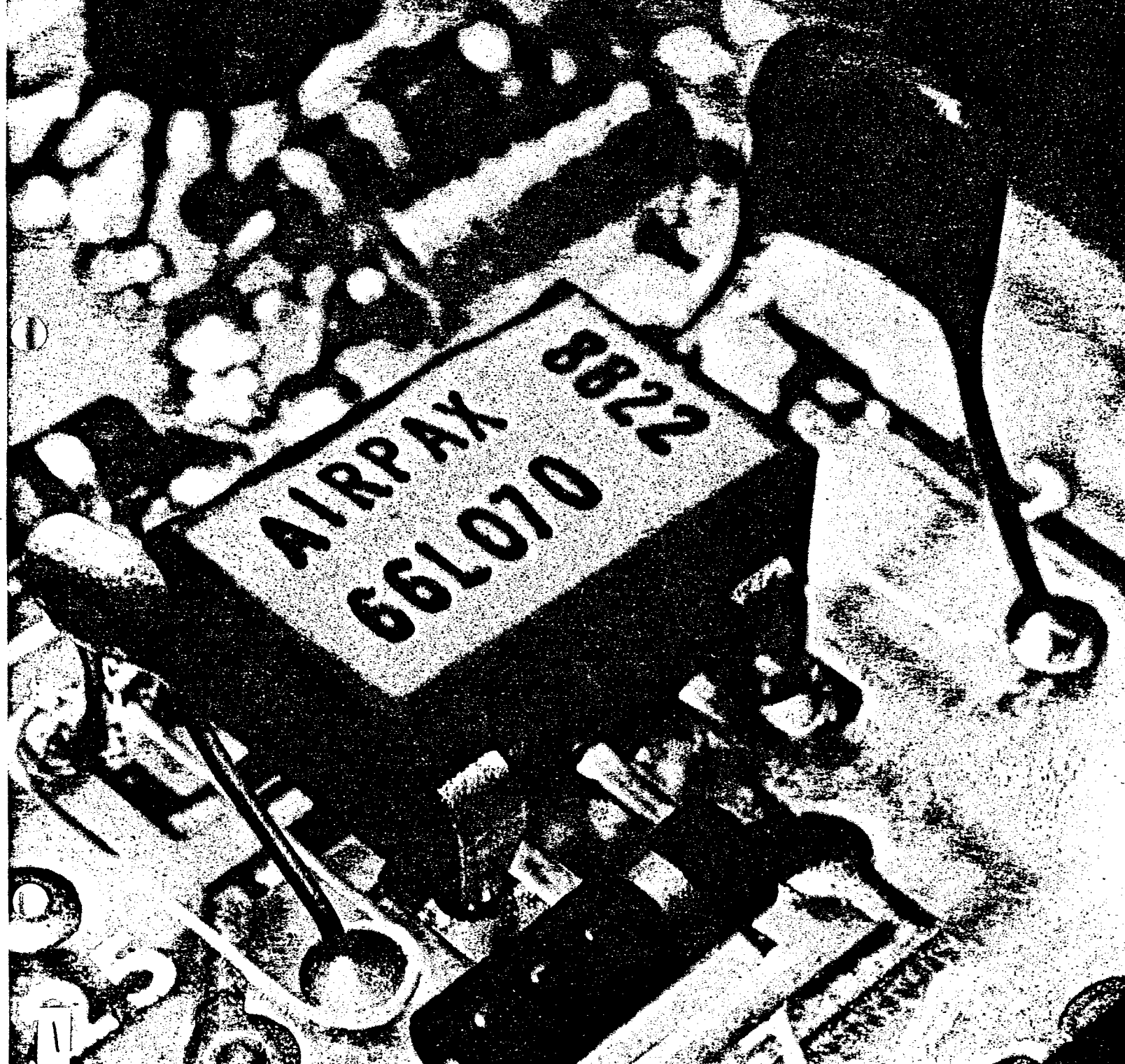
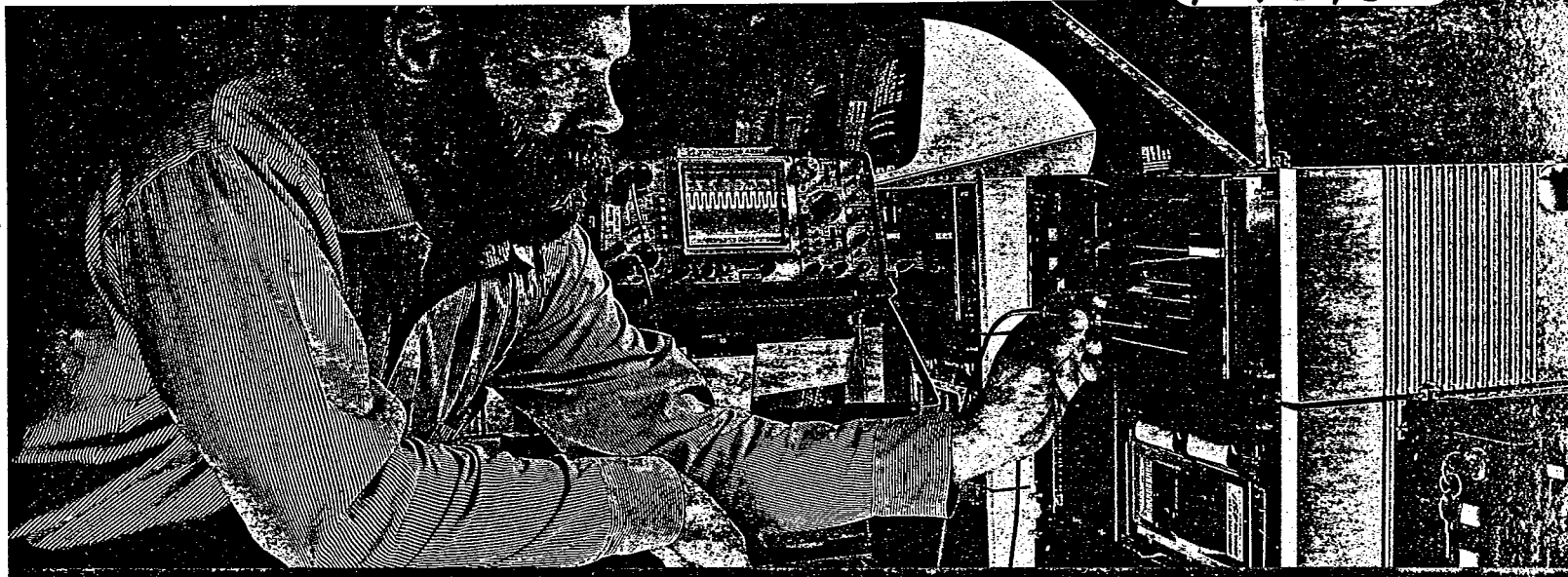


AIRPAX®

**SERIES 6600
THERMOSTATS**





Series 6600 Thermostats

6600 P.C. Board Thermostat

The Airpax Series 6600 is a miniature bimetallic snap acting thermostat which provides accurate and reliable sensing and switching in a single device. It provides fast, positive response and excellent repeatability with 1 amp switching capability at 48 VDC over its operating temperature range of 40°C to 120°C (104°F to 248°F). The temperature is pre-set at the factory and non-adjustable in the field.

The single pole/single throw switch assembly is operated by a bimetallic element with a positive snap action available in either normally closed, open on rising temperature or normally open, close on rising temperature configurations.

The Series 6600 thermostat has been designed around the standard 8 pin N8A Dual Inline Package, making it ideally suited for use on printed circuit boards. Its size and shape conserves space on crowded P.C. boards and can be installed using auto-insertion equipment. The device is sealed to withstand wave soldering and board washing operations.

Typical uses include turning on an indicator light, sounding an audible alarm, switching on or changing the speed of a fan, switching on a control circuit to send a message to a display screen or even switching a circuit to shut down a system upon sensing over temperature.

Applications include computers and computer peripherals, aircraft, automotive, and test equipment.

Specifications:

Contact Resistance: 50 Milliohms max. (before and after rated life)

Contact Ratings:

Approved per VDE 0631/12.83

0.02 A	5 VDC Test Class II	100,000 oper.
1 A	48 VDC Test Class I	30,000 oper.
1 A	120 VAC Test Class I	30,000 oper.

CSA Certified LR25561
UL Recognized E36687

0.001 A	5 VDC	100,000 oper.
0.02 A	5 VDC	100,000 oper.
1 A	48 VDC	30,000 oper.
1 A	120 VAC	30,000 oper.

Ambient Temperature Range:

-55°C to 160°C

Contact Operations: Either open on rise or close on rise

Operating Temperature Range:

40°C (104°F) to 120°C (248°F)

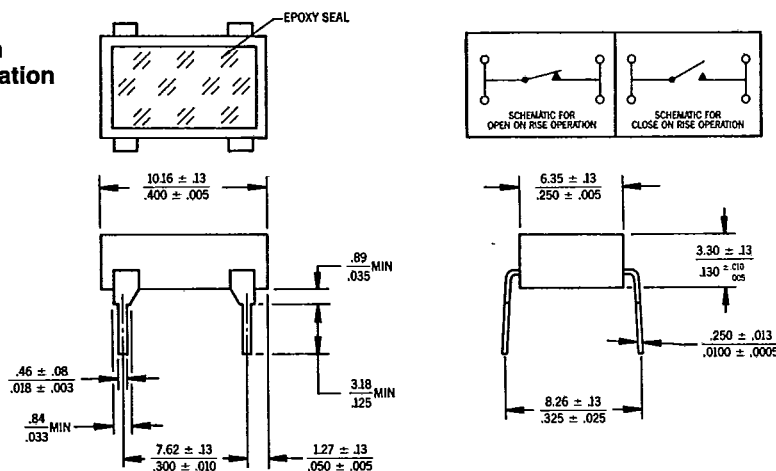
Standard Operating Temperature

Tolerance: ±5°C (±9°F) Nominal operating temperature settings in 5°C (9°F) increments

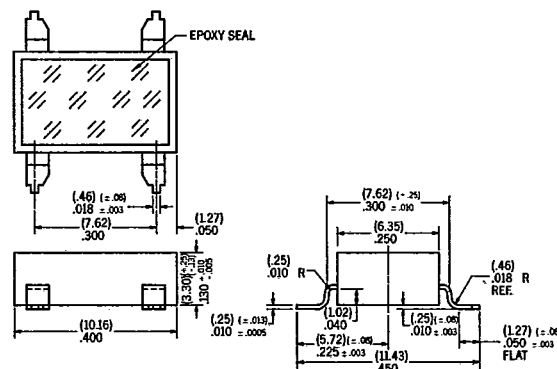
Short Term Exposure Limit:

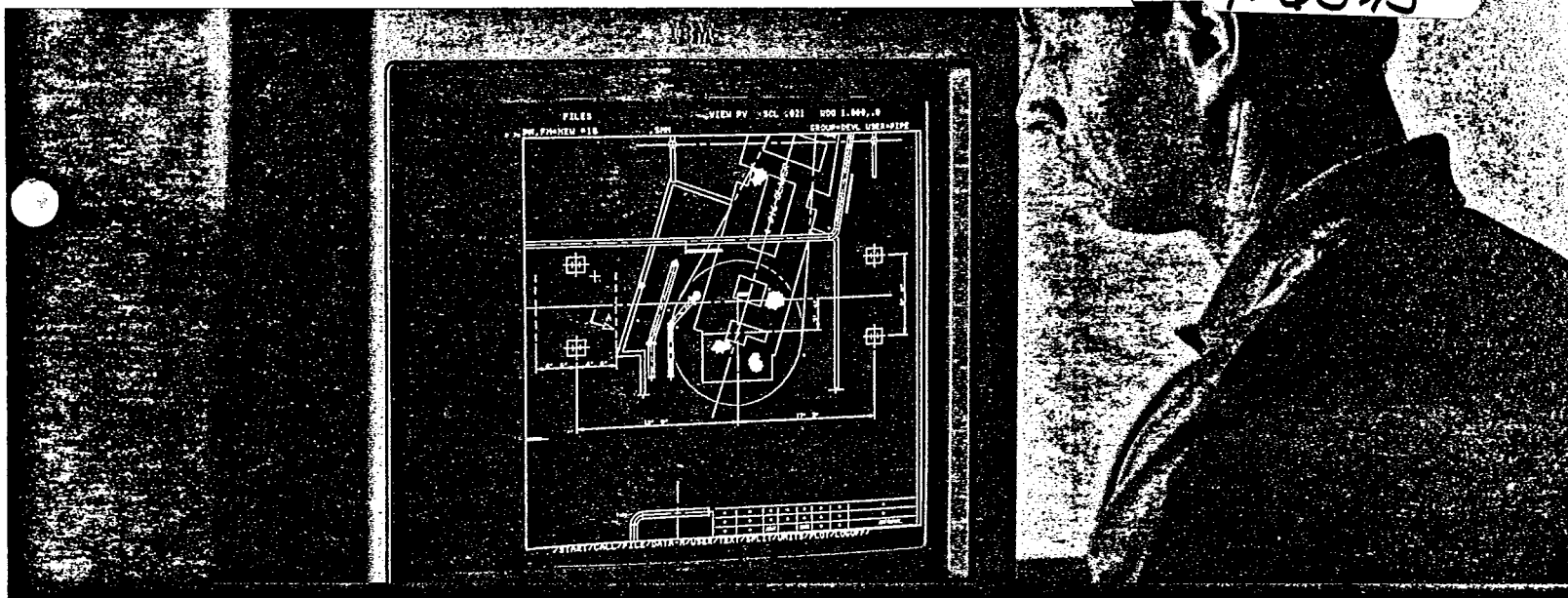
260°C (500°F), 10 sec.

Standard 8 pin D.I.P. Configuration



Surface Mount Configuration





Series 6600 Thermostats

Long Term Exposure Limit:

-55°C (-67°F) to 160°C (320°F)

Dielectric Strength: 500 VAC 60 Hz 1 minute or 1800 VAC 60 Hz 1 second, terminals to case.

Insulation Resistance: 100 Megohms at 500 VDC

Contact Bounce - make: 3 ms max.

Weight: Approximately 0.45 grams

Seal: Non-hermetic moisture proof per Airpax Spec. S-722 (unit will not leak while submerged in 9" of water for a minimum of two minutes).

Chemical Resistance: Both the base and epoxy are resistant to water, salt, alcohol, ammonia, trichlorethane, and most other organic solvents.

Vibration: Per Mil-Std-202, Method 204D, Test Condition D, 10-2,000 Hz

Shock: Per Mil-Std-202, Method 213, Test Condition C, 100 G's, 6 milliseconds, 1/2 sine wave

Solderability: Per Mil-Std-202F, Method 208D

Resistance to Soldering Heat: Per Mil-Std-202F, Method 210A, Test Condition E

Mechanical Life: 1KK operations.

Materials:

Seal: High temperature epoxy

Base: Rytan, 94 V0 rated

Terminals: Copper Nickel Zinc Alloy

Contacts: Gold-plated Silver cross bar

6600 SERIES STANDARD CALIBRATIONS

OPERATE (±5°C)	RESET (MIN °C)	DIFFERENTIAL (MIN °C)
40	20	4
45	20	4
50	30	4
55	30	4
60	40	4
65	40	4
70	50	4
75	50	4
80	55	6
85	55	6
90	60	6
95	60	6
100	70	6
105	70	6
110	80	6

How to use this chart

Each thermostat Part Number consists of functional "building blocks" to enable the user to specify clearly and precisely the desired characteristics in each category. Select the proper Code in each category, then transfer it to the box indicated. Unless a special requirement is indicated, the Part Number will be complete when the proper temperature is selected. If you have a special requirement, please call Airpax for a factory assigned number to complete the Part Number.

Example: A 66F060 thermostat will close (make contact) on a rising temperature from 55°C to 65°C and will reset (break contact) on a falling temperature no less than 4°C lower than the actual close temperature and no lower than 40°C actual temperature.

66 -

Contact Operation: _____
F = Fan (CLR)
L = Limit (OPR)

Operating Temperature _____
in Degrees C.

Factory Assigned _____
Number for Special
Requirements

TEMPERATURE CONVERSION TABLE

If center column value is °F the °C equivalent is to the left. If center column value is °C, the °F equivalent is to the right.

°C.	°F.	°C.	°F.	°C.	°F.	°C.	°F.	°C.	°F.	°C.	°F.	°C.	°F.							
-34.44	-30	-22	15.56	60	140	65.56	150	302	115.56	240	464	165.56	330	628	215.56	420	788	257.22	495	923
-33.89	-29	-22	16.11	61	141.8	66.11	151	303.8	116.11	241	465.8	166.11	331	629.8	216.11	421	789.8	257.78	496	924.8
-33.33	-28	-18.6	16.67	62	143.6	66.67	152	305.6	116.67	242	467.6	166.67	332	631.6	216.67	422	791.6	258.33	497	926.6
-32.78	-27	-18.6	17.22	63	145.6	67.22	153	307.4	117.22	243	469.4	167.22	333	633.4	217.22	423	793.4	258.89	498	928.4
-32.22	-26	-18.6	17.78	64	147.2	67.78	154	309.2	117.78	244	471.2	167.78	334	635.2	217.78	424	795.2	259.44	499	930.2
-31.67	-25	-13	18.33	65	149	68.33	155	311	118.33	245	473	168.33	335	637	218.33	425	797	260	500	932
-31.11	-24	-11.2	18.89	66	150.8	68.89	156	312.8	118.89	246	474.8	168.89	336	638.8	218.89	426	798.8	260.56	501	933.8
-30.56	-23	-9.4	19.44	67	152.6	69.44	157	314.6	119.44	247	476.6	169.44	337	640.6	219.44	427	800.6	261.11	502	935.6
-30	-22	-7.6	20	68	154.4	70	158	316.4	120	248	478.4	170	338	642.4	220	428	802.4	261.67	503	937.4
-29.44	-21	-5.8	20.56	69	156.2	70.56	159	318.2	120.56	249	480.2	170.56	339	644.2	220.56	429	804.2	262.22	504	939.2
-28.89	-20	-4	21.11	70	158	71.11	160	320	121.11	250	482	171.11	340	646	221.11	430	806	262.78	505	941
-28.33	-19	-2.2	21.67	71	159.8	71.67	161	321.8	121.67	251	483.8	171.67	341	648.8	221.67	431	807.8	263.33	506	942.8
-27.78	-18	0	22.22	72	161.6	72.22	162	323.6	122.22	252	485.6	172.22	342	650.6	222.22	432	809.6	263.89	507	944.6
-27.22	-17	-1.4	22.78	73	163.4	72.78	163	325.4	122.78	253	487.4	172.78	343	652.4	222.78	433	811.4	264.44	508	946.4
-26.67	-16	-3.2	23.33	74	165.2	73.33	164	327.2	123.33	254	489.2	173.33	344	654.2	223.33	434	813.2	265	509	948.2
-26.11	-15	-5	23.89	75	167	73.89	165	329	123.89	255	491	173.89	345	656	223.89	435	815	265.56	510	950
-25.56	-14	-6.8	24.44	76	168.8	74.44	166	330.8	124.44	256	492.8	174.44	346	658.8	224.44	436	816.8	266.11	511	951.8
-25	-13	-8.6	25	77	170.6	75	168	332.6	125	257	494.6	175	347	660.6	225	437	818.6	266.67	512	953.6
-24.44	-12	-10.4	25.56	78	172.4	75.56	169	334.4	125.56	258	496.4	175.56	348	662.4	225.56	438	820.4	267.22	513	955.4
-23.89	-11	-12.2	26.11	79	174.2	76.11	170	336.2	126.11	259	498.2	176.11	349	664.2	226.11	439	822.2	267.78	514	957.2
-23.33	-10	-14	26.67	80	176	76.67	171	338	126.67	260	500	176.67	350	666	226.67	440	824	268.33	515	959
-22.78	-9	-15.8	27.22	81	177.8	77.22	172	340	127.22	261	501.8	177.22	351	668.8	227.22	441	825.8	268.89	516	960.8
-22.22	-8	-17.6	27.78	82	179.6	77.78	173	341.6	127.78	262	503.6	177.78	352	670.6	227.78	442	827.6	269.44	517	962.6
-21.67	-7	-19.4	28.33	83	181.4	78.33	174	343.4	128.33	263	505.4	178.33	353	672.4	228.33	443	829.4	270	518	964.4
-21.11	-6	-21.2	28.89	84	183.2	78.89	175	345.2	128.89	264	507.2	178.89	354	674.2	228.89	444	831.2	270.56	519	966.2
-20.56	-5	-23	29.44	85	185	79.44	176	347	129.44	265	509	179.44	355	676	229.44	445	833	271.11	520	968
-20	-4	-24.8	30	86	186.8	80	177	348.8	130	266	510.8	180	356	678.8	230	446	834.8	271.67	521	969.8
-19.44	-3	-26.6	30.56	87	188.6	80.56	178	350.6	130.56	267	512.6	180.56	357	680.6	230.56	447	836.6	272.22	522	971.6
-18.89	-2	-28.4	31.11	88	190.4	81.11	179	352.4	131.11	268	514.4	181.11	358	682.4	231.11	448	838.4	272.78	523	973.4
-18.33	-1	-30.2	31.67	89	192.2	81.67	180	354.2	131.67	269	516.2	181.67	359	684.2	231.67	449	840.2	273.33	524	975.2
-17.78	0	-32	32.22	90	194	82.22	181	356	132.22	270	518	182.22	360	686	232.22	450	842	273.89	525	977
-17.22	1	-33.8	32.78	91	195.8	82.78	182	357.8	132.78	271	519.8	182.78	361	688.8	232.78	451	843.8	274.44	526	978.8
-16.67	2	-35.6	33.33	92	197.6	83.33	183	359.6	133.33	272	521.6	183.33	362	690.6	233.33	452	845.6	275	527	980.6
-16.11	3	-37.4	33.89	93	199.4	83.89	184	361.4	133.89	273	523.4	183.89	363	692.4	233.89	453	847.4	275.56	528	982.4
-15.56	4	-39.2	34.44	94	201.2	84.44	185	363.2	134.44	274	525.2	184.44	364	694.2	234.44	454	849.2	276.11	529	984.2
-15	5	-41	35	95	203	85	186	365	135	275	527	185	365	696	235	455	851	276.67	530	986
-14.44	6	-42.8	35.56	96	204.8	85.56	187	366.8	135.56	276	528.8	185.56	366	698.8	235.56	456	852.8	277.22	531	987.8
-13.89	7	-44.6	36.11	97	206.6	86.11	188	368.6	136.11	277	530.6	186.11	367	700.6	236.11	457	854.6	277.78	532	989.6
-13.33	8	-46.4	36.67	98	208.4	86.67	189	370.4	136.67	278	532.4	186.67	368	702.4	236.67	458	856.4	278.33	533	991.4
-12.78	9	-48.2	37.22	99	210.2	87.22	190	372.2	137.22	279	534.2	187.22	369	704.2	237.22	459	858.2	278.89	534	993.2
-12.22	10	-50	37.78	100	212	87.78	191	374	137.78	280	536	187.78	370	706	237.78	460	860	279.44	535	995
-11.67	11	-51.8	38.33	101	213.8	88.33	192	375.8	138.33	281	537.8	188.33	371	708.8	238.33	461	861.8	280	536	996.8
-11.11	12	-53.6	38.89	102	215.6	88.89	193	377.6	138.89	282	539.6	188.89	372	710.6	238.89	462	863.6	280.56	537	998.6
-10.56	13	-55.4	39.44	103	217.4	89.44	194	379.4	139.44	283	541.4	189.44	373	712.4	239.44	463	865.4	281.11	538	1000.4
-10	14	-57.2	40	104	219.2	90	195	381.2	140	284	543.2	190	374	714.2	240	464	867.2	281.67	539	1002.2
-9.44	15	-59	40.56	105	221	90.56	196	383	140.56	285	545	190.56	375	716	240.56	465	869	282.22	540	1004
-8.89	16	-60.8	41.11	106	222.8	91.11	197	384.8	141.11	286	546.8	191.11	376	718	241.11	466	870.8	282.78	541	1005.8
-8.33	17	-62.6	41.67	107	224.6	91.67	198	386.6	141.67	287	548.6	191.67	377	720.6	241.67	467	872.6	283.33	542	1007.6
-7.78	18	-64.4	42.22	108	226.4	92.22	199	388.4	142.22	288	550.4	192.22	378	722.4	242.22	468	874.4	283.89	543	1009.4
-7.22	19	-66.2	42.78	109	228.2	92.78	200	390.2	142.78	289	552.2	192.78	379	724.2	242.78	469	876.2	284.44	544	1011.2
-6.67	20	-68	43.33	110	230	93.33	201	392	143.33	290	554	193.33	380	726	243.33	470	878	285	545	1013
-6.11	21	-69.8	43.89	111	231.8	93.89	202	393.8	143.89	291	555.8	193.89	381	728	243.89	471	879.8	285.56	546	1014.8
-5.56	22	-71.6	44.44	112	233.6	94.44	203	395.6	144.44	292	557.6	194.44	382	730.6	244.44	472	881.6	286.11	547	1016.6
-5	23	-73.4	45	113	235.4	95	204	397.4	145	293	559.4	195	383	732.4	245	473	883.4	286.67	548	1018.4
-4.44	24	-75.2	45.56	114	237.2	95.56	205	399.2	145.56	294	561.2	195.56	384	734.2	245.56	474	885.2	287.22	549	1020.2
-3.89	25	-77	46.11	115	239	96.11	206	401	146.11	295	563	196.11	385	736	246.11	475	887	287.78	550	1022
-3.33	26	-78.8	46.67	116	240.8	96.67	207	402.8	146.67	296	564.8	196.67	386	738	246.67	476	888.8	288.33	551	1023.8
-2.78	27	-80.6	47.22	117	242.6	97.22	208	404.6	147.22	297	566.6	197.22	387	740.6	247.22	477	890.6	288.89	552	1025.6
-2.22	28	-82.4	47.78	118	244.4	97.78	209	406.4	147.78	298	568.4	197.78	388	742.4	247.78	478	892.4	289.44	553	1027.4
-1.67	29	-84.2	48.33	119	246.2	98.33	210	408.2	148.33	299	570.2	198.33	389	744.2	248.33	479	894.2	290	554	1029.2
-1.11	30	-86	48.89	120	248	98.89	211	410	148.89	300	572	198.89	390	746	248.89	480	896	290.56	555	1031
-0.56	31	-87.8	49.44	121	249.8	99.44	212	411.8	149.44	301	573.8	199.44	391	748	249.44</					