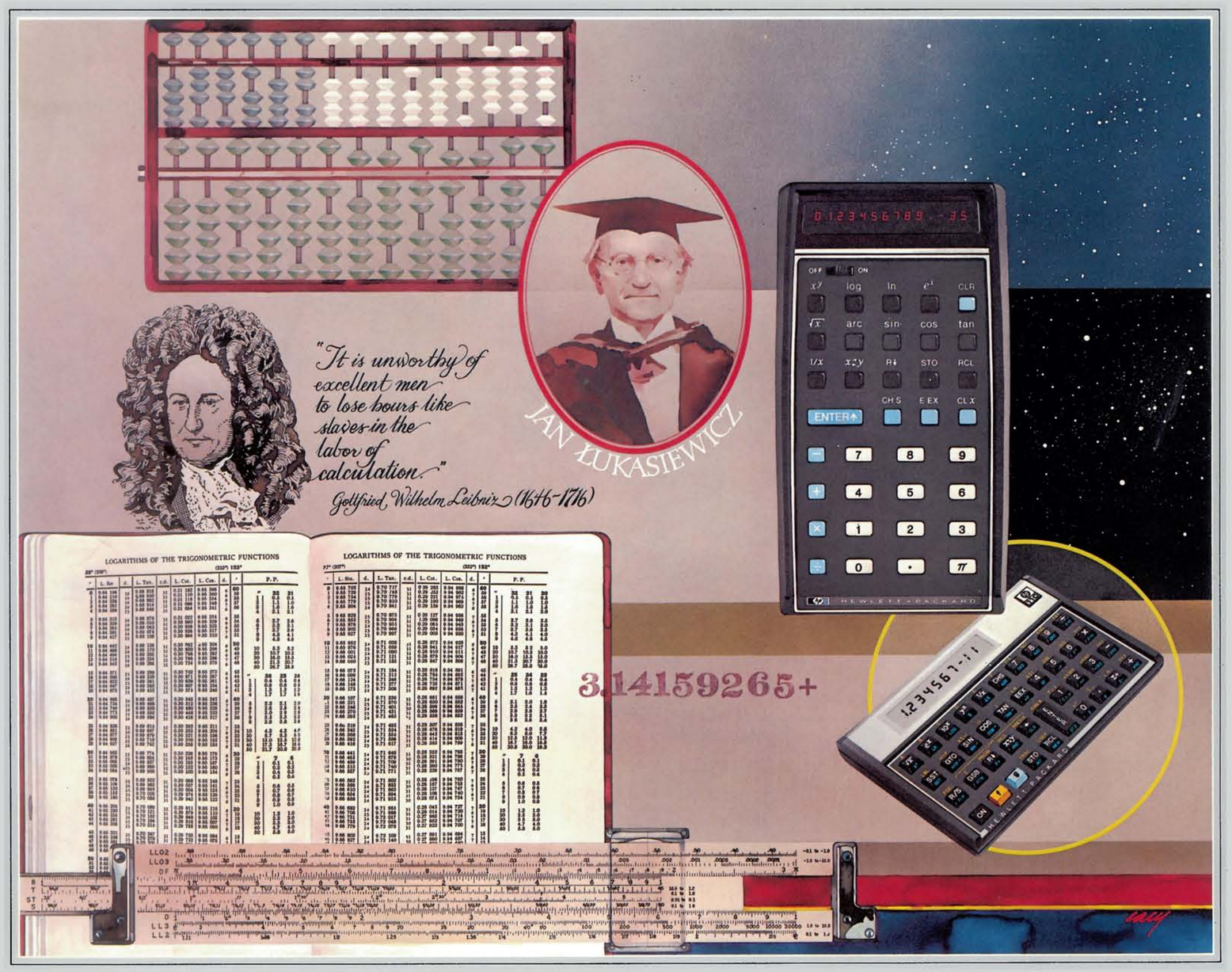
Hewlett-Packard's Great Adventures

In 1972, an incredible excitement greeted the introduction of the world's first and only scientific handheld calculator, the HP-35. The slide rule became obsolete. Accurate answers became possible in seconds rather than hours. And, the HP-35 was so popular, it spawned other portable computing products, increasing functional capability with each new model.

Hewlett-Packard now celebrates ten years of unique applications for portable computing devices. Join us as we relive the "Great Adventures" of these innovative products.

HEWLETT
PACKARD



5953-7801

NASA
United States
NASA

TWO HP-41C'S, CARRIED BY ASTRONAUT ROBERT CRIPPEN, ABOARD THE SPACE SHUTTLE COLUMBIA, contained critical programs. One to tell *Columbia* the next ground station to contact, when contact would be made and for how long. The other to calculate both the pre-entry center of gravity (balancing point) and the amount of fuel that must be burned to maintain the precise balancing point during descent.

HEWLETT PACKARD

JANUARY JANUAR
JANVIER GENNAIO
JANEIRO ENERO

1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
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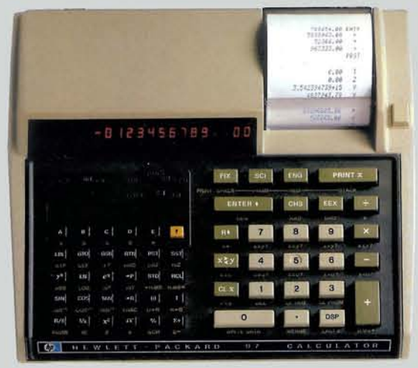
17	18	19	20	21	22	23
24 31	25	26	27	28	29	30

NEWPORT
NEWPORT NECK
FLAGPOLE
Rose I
Goat I
Fort Adams
Brenton Cove
Bonnet Pt
Watson Pier
STANDPIPE
Whale Rk
Beavertail Pt
BRENTON REEF
Gp Fl (2) 10sec 87ft 25M
HORN
PRECAUTIONARY AREA
(see note E)
Church Pt
Sachuest Pt
Island Rks
COLREGS DEMARCATION LINE
Cormorant Rk
TOWER
(ABAND LT HO)
West I
Schuyler Ledge
Dolphin Rk
Elisha Ledge
AREA 3
(see note B)
COURAGEOUS
41°
35′
30′
25′
41°
20′
35′
71° 30′



COURAGEOUS, 1977 AMERICA'S CUP WINNER.
The 12-meter, American sailing yacht, skippered by Ted Turner, was navigated by Bill Gorsch and the Hewlett-Packard 97. Crucial to the yacht's optimum performance were various tactical data involving time to next mark, course direction, wind speed and wind direction. The HP-97, the only calculator in use during the race, was aboard the *Courageous* to provide this critical information and to help win the race.

HEWLETT PACKARD

FEBRUARY FEBRUAR
FEVRIER FEBBRAIO
FEVEREIRO FEBRERO

1982

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28						

Curry

IN 1972, CHRIS BONINGTON LED THE BRITISH ATTEMPT TO CLIMB THE SOUTHWEST FACE OF MT. EVEREST. Here at the base camp on Khumbu Glacier, the HP-35 performed at temperatures as low as -30ºC. HP was proud to perform the necessary computations for the important physiological and surveying experiments conducted prior to the ascent. The climbing expedition also relied upon the HP-35 for calculating the weight of each Sherpa's load.

HEWLETT PACKARD

MARCH MÄRZ MARS MARZO MARÇO MARZO

1982

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STAFFORD
A LEONOV
CCCP

THE HEWLETT-PACKARD 65 IN SPACE. Aboard the U.S. *Apollo* in its historic 1975 space linkup with the Russian *Soyuz*, an HP-65 calculated critical linkup maneuvers to place both spacecraft into the same orbit and to aid *Apollo* when it was 22 miles from *Soyus*. Commander Thomas P. Stafford and crew also relied on the HP-65 to precisely pinpoint *Apollo's* high-gain antenna at an orbiting satellite to assure communications with earth.

HEWLETT PACKARD

APRIL APRIL
AVRIL APRILE
ABRIL ABRIL

1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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25	26	27	28	29	30	

R-APE CAVE MAGNETOMETER
2900
2700
241 242 243 244 245 246 247 248 249 250
25 GAMMAS
VERT FULL SCALE=25 GAMMAS
CRATER-APE CAVE MAGNETOMETER
252 253 254 255 256 257
VERT FULL SCALE=25 GAMMAS
CRATER-APE
2650
259 260
VERT FULL S

EVERY TEN MINUTES, AN HP-85 TAKES THE PULSE OF MT. ST. HELENS. From the crater floor, a tiltmeter, strainmeter and magnetometer transmit data to an HP-85 in Vancouver, Washington. Since May, 1981, revealing data tables and graphs, printed daily by the HP-85, have warned geologists of telltale tilt preceding eruptions. These records will become part of the published scientific papers of the United States Geological Survey.

HEWLETT PACKARD

MAY MAI
MAI MAGGIO
MAIO MAYO

1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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23 30	24 31	25	26	27	28	29

elf
GOODYEAR
FIRST NATIONAL
elf
elf
elf

THE HP-67 HELPED THE TYRRELL RACING TEAM CUSTOMIZE THEIR CARS to expertly perform on the Grand Prix tracks. These formula racers, designed to compete under specific conditions, depended upon the HP-67 for accurate data on fuel calculations and suspension system characteristics, such as roll center height, and wheel movement. With the aid of the HP-67, the Tyrrell Team won the 1978 Grand Prix Races in Monaco and in Long Beach, California.

HEWLETT PACKARD

JUNE JUNI
JUIN GIUGNO
JUNHO JUNIO

1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

US·30
US-30
US-30
Freedom

THE HP-41C AND THE 1980 AMERICA'S CUP WINNER, FREEDOM. Onboard the 12-meter yacht, Hewlett-Packard's 41C continually computed *Freedom's* distance ahead and behind other Twelves competing for the coveted first place. Skipper, Dennis Conner chose the HP-41 for its convenient handheld size and for its ability to "stand up to the weather." And stand up it did—during the best-of-seven races!

HEWLETT PACKARD

JULY JULI
JUILLET LUGLIO
JULHO JULIO

1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
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18	19	20	21	22	23	24
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DOUBLE
AGLE II
LARRY
N-MAXIE

DOUBLE EAGLE II PUT AN HP-67 AND NAVIGATION PAC to critical use in 1978 to achieve the first successful Atlantic crossing by balloon. After leaving the Newfoundland coast, a storm approached. To inform the air and ground crew of its relation to the craft, Maxie Anderson calculated the position of Venus and Polaris with the aid of his HP-67. He then reported to the ground crew, in a matter of minutes, what would ordinarily take 6 to 7 hours to relate from Goddard Space Flight Center.

HEWLETT PACKARD

AUGUST AUGUST
AQUT AGOSTO
AGOSTO AGOSTO

1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
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29	30	31				

HP PERSONAL COMPUTERS AID ANALYSES AT THE WORLD'S LARGEST REGIONAL BLOOD BANK.
The *New York Blood Center* uses six HP-85's in the exacting analyses of the large amounts of blood handled everyday. In testing blood for forms of hepatitus, Blood Center technicians inject enzymes into samples and record the reaction. Working with Abbott VP blood analyzers, dependable HP-85's keep accurate track of the samples, and store and print results of the tests.

HEWLETT PACKARD

SEPTEMBER SEPTEMBER
SEPTEMBRE SETTEMBRE
SETEMBRO SEPTIEMBRE

1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

THE HP-35, THE WORLD'S FIRST HANDHELD SCIENTIFIC CALCULATOR, orbited in space aboard three manned *Skylab* missions (1973-74). Solar research figured prominently among the wide assortment of experimental research conducted. Used as a backup to on-board computers, the HP-35 calculated predocking rocket burns necessary to align the Apollo Command Module with *Skylab*. In addition, the HP-35 helped *Skylab* crews aim their telescopes at stars in attempts to measure ultraviolet radiation.

HEWLETT PACKARD

OCTOBER OKTOBER
OCTOBRE OTTOBRE
OUTUBRO OCTUBRE
1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 31	25	26	27	28	29	30

ALVIN

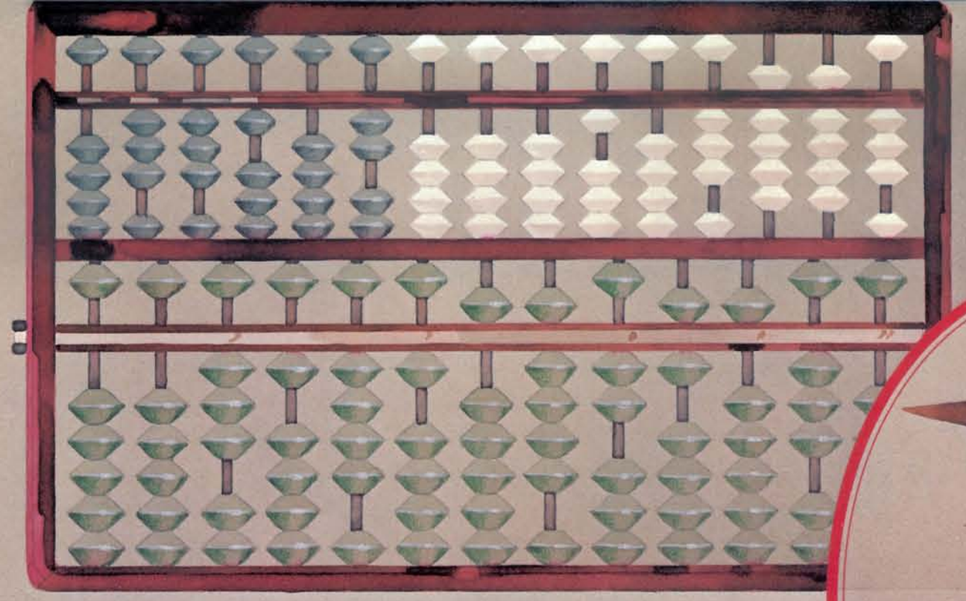
THE SUBMERSIBLE RESEARCH VESSEL, ALVIN, NAVIGATED THE PACIFIC'S GALAPAGOS RIFT IN 1977. The HP-97 was aboard to calculate water properties, e.g., salinity, temperature, in case on-board computers malfunctioned. *Alvin* discovered warm, seafloor springs teeming with giant clams and tube worms, never before seen by man. A parent vessel, *Knorr*, used the HP-97 topside for radar ranging and data reduction.

HEWLETT PACKARD

NOVEMBER NOVEMBER
NOVEMBRE NOVEMBRE
NOVEMBRO NOVIEMBRE

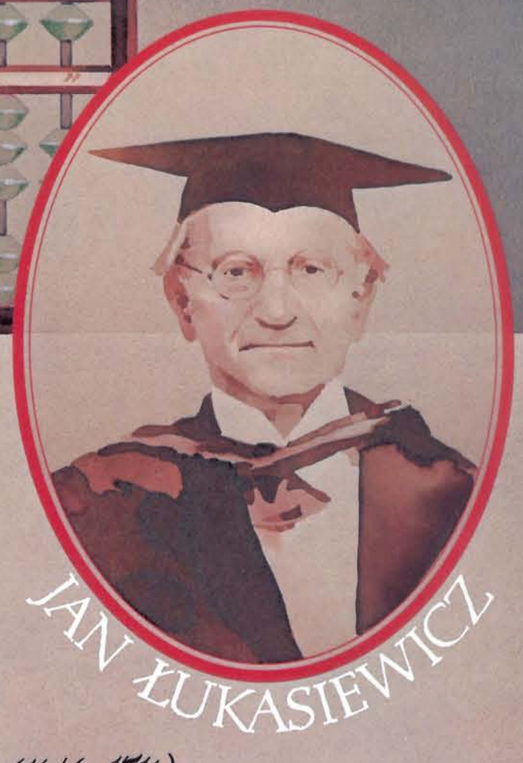
1982

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

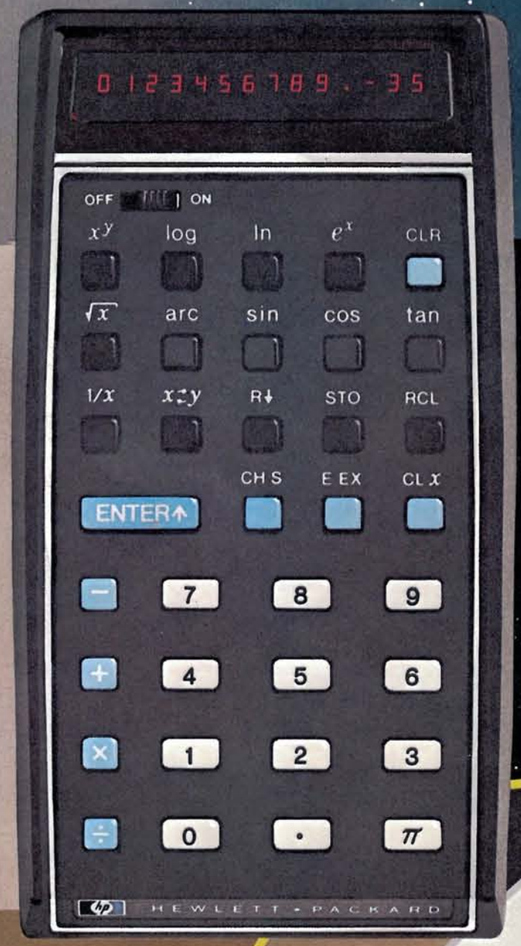


"It is unworthy of excellent men to lose hours like slaves in the labor of calculation."

Gottfried Wilhelm Leibniz (1646-1716)



JAN ŁUKASIEWICZ



3.14159265+

LOGARITHMS OF THE TRIGONOMETRIC FUNCTIONS

26° (206°) (333°) 153°

′	L. Sin	d.	L. Tan.	c.d.	L. Cot.	L. Cos.	d.	′	P. P.
0	9.64 184	26	9.68 818	32	0.31 182	9.95 366	6	60	
1	9.64 210	26	9.68 850	32	0.31 150	9.95 360	6	59	
2	9.64 236	26	9.68 882	32	0.31 118	9.95 354	6	58	
3	9.64 262	26	9.68 914	32	0.31 086	9.95 348	6	57	
4	9.64 288	25	9.68 946	32	0.31 054	9.95 341	6	56	
5	9.64 313	26	9.68 978	32	0.31 022	9.95 336	6	55	
6	9.64 339	26	9.69 010	32	0.30 990	9.95 329	6	54	
7	9.64 365	26	9.69 042	32	0.30 958	9.95 323	6	53	
8	9.64 391	26	9.69 074	32	0.30 926	9.95 317	6	52	
9	9.64 417	25	9.69 106	32	0.30 894	9.95 310	6	51	
10	9.64 442	26	9.69 138	32	0.30 862	9.95 304	6	50	
11	9.64 468	26	9.69 170	32	0.30 830	9.95 298	6	49	
12	9.64 494	26	9.69 202	32	0.30 798	9.95 292	6	48	
13	9.64 519	26	9.69 234	32	0.30 766	9.95 286	7	47	
14	9.64 545	26	9.69 266	32	0.30 734	9.95 279	6	46	
15	9.64 571	25	9.69 298	31	0.30 702	9.95 273	6	45	
16	9.64 596	26	9.69 329	32	0.30 671	9.95 267	6	44	
17	9.64 622	25	9.69 361	32	0.30 639	9.95 261	7	43	
18	9.64 647	26	9.69 393	32	0.30 607	9.95 254	6	42	
19	9.64 673	25	9.69 425	32	0.30 575	9.95 248	6	41	
20	9.64 698	26	9.69 457	31	0.30 543	9.95 242	6	40	
21	9.64 724	25	9.69 488	32	0.30 512	9.95 236	7	39	
22	9.64 749	26	9.69 520	32	0.30 480	9.95 229	6	38	
23	9.64 775	25	9.69 552	32	0.30 448	9.95 223	6	37	
24	9.64 800	25	9.69 584	31	0.30 416	9.95 217	6	36	
25	9.64 826	25	9.69 615	32	0.30 385	9.95 211	7	35	
26	9.64 851	26	9.69 647	32	0.30 353	9.95 204	6	34	
27	9.64 877	25	9.69 679	32	0.30 321	9.95 198	6	33	
28	9.64 902	25	9.69 710	32	0.30 290	9.95 192	7	32	
29	9.64 927	26	9.69 742	32	0.30 258	9.95 185	6	31	
30	9.64 953	25	9.69 774	31	0.30 226	9.95 179	6	30	
31	9.64 978	25	9.69 805	32	0.30 195	9.95 173	6	29	
32	9.65 003	26	9.69 837	32	0.30 163	9.95 167	7	28	
33	9.65 029	25	9.69 868	31	0.30 132	9.95 160	6	27	
34	9.65 054	25	9.69 900	32	0.30 100	9.95 154	6	26	
35	9.65 079	25	9.69 932	31	0.30 068	9.95 148	7	25	
36	9.65 104	25	9.69 963	32	0.30 037	9.95 141	6	24	
37	9.65 130	26	9.69 995	32	0.30 005	9.95 135	6	23	
38	9.65 155	25	9.70 026	31	0.29 974	9.95 129	7	22	
39	9.65 180	25	9.70 058	32	0.29 942	9.95 122	6	21	
40	9.65 205	25	9.70 089	32	0.29 911	9.95 116	6	20	
41	9.65 230	25	9.70 121	31	0.29 879	9.95 110	7	19	
42	9.65 254	25	9.70 152	31	0.29 848	9.95 103	7	18	
43	9.65 281	25	9.70 184	32	0.29 816	9.95 097	7	17	
44	9.65 306	25	9.70 214	32	0.29 786	9.95 090	6	16	
45	9.65 331	25	9.70 247	31	0.29 753	9.95 084	6	15	
46	9.65 356	25	9.70 278	31	0.29 722	9.95 078	6	14	
47	9.65 381	25	9.70 309					13	
48	9.65							12	
49	9.65							11	
50	9.65							10	
51	9.65							9	
52	9.65							8	
53	9.65							7	

"	32	31
1	0.5	0.5
2	1.1	1.0
3	1.6	1.5
4	2.1	2.1
5	2.7	2.6
6	3.2	3.1
7	3.7	3.6
8	4.3	4.1
9	4.8	4.6
10	5.3	5.2
20	10.7	10.3
30	16.0	15.5
40	21.3	20.7
50	26.7	25.8

"	26	25	24
1	0.4	0.4	0.4
2	0.9	0.8	0.8
3	1.3	1.2	1.2
4	1.7	1.7	1.6
5	2.2	2.1	2.0
6	2.6	2.5	2.4
7	3.0	2.9	2.8
8	3.5	3.3	3.2
9	3.9	3.8	3.6
10	4.3	4.2	4.0
20	8.7	8.3	8.0
30	13.0	12.5	12.0
40	17.3	16.7	16.0
50	21.7	20.8	20.0

"	7	6
1	0.1	0.1
2	0.2	0.2
3	0.4	0.3
4	0.5	0.4
5	0.6	0.5
6	0.7	0.6
7	0.8	0.7
8	0.9	0.8
9	1.0	0.9
10	1.2	1.0
20	2.3	2.0
30	3.5	3.0
40	4.7	4.0
50	5.8	5.0

LOGARITHMS OF THE TRIGONOMETRIC FUNCTIONS

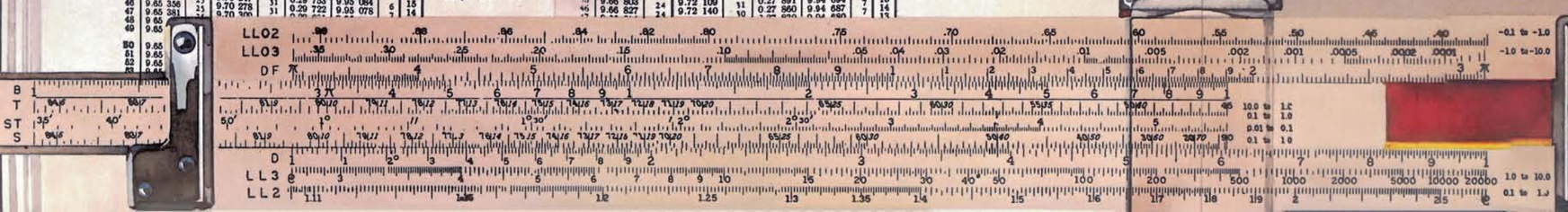
27° (207°) (332°) 152°

′	L. Sin.	d.	L. Tan.	c.d.	L. Cot.	L. Cos.	d.	′	P. P.
0	9.65 703	24	9.70 717	31	0.29 283	9.94 988	6	60	
1	9.65 729	25	9.70 748	31	0.29 252	9.94 982	7	59	
2	9.65 754	25	9.70 779	31	0.29 221	9.94 976	6	58	
3	9.65 779	25	9.70 810	31	0.29 190	9.94 969	7	57	
4	9.65 804	24	9.70 841	32	0.29 159	9.94 962	7	56	
5	9.65 828	25	9.70 873	31	0.29 127	9.94 956	7	55	
6	9.65 853	25	9.70 904	31	0.29 096	9.94 949	6	54	
7	9.65 878	25	9.70 935	31	0.29 065	9.94 943	7	53	
8	9.65 902	24	9.70 966	31	0.29 034	9.94 936	6	52	
9	9.65 927	25	9.70 997	31	0.29 003	9.94 930	7	51	
10	9.65 952	24	9.71 028	31	0.28 972	9.94 923	6	50	
11	9.65 976	25	9.71 059	31	0.28 941	9.94 917	6	49	
12	9.66 001	24	9.71 090	31	0.28 910	9.94 911	7	48	
13	9.66 025	24	9.71 121	31	0.28 879	9.94 904	7	47	
14	9.66 050	25	9.71 153	31	0.28 847	9.94 898	7	46	
15	9.66 073	24	9.71 184	31	0.28 816	9.94 891	6	45	
16	9.66 099	25	9.71 215	31	0.28 785	9.94 885	7	44	
17	9.66 124	24	9.71 246	31	0.28 754	9.94 878	7	43	
18	9.66 148	25	9.71 277	31	0.28 723	9.94 871	6	42	
19	9.66 173	24	9.71 308	31	0.28 692	9.94 865	7	41	
20	9.66 197	24	9.71 339	31	0.28 661	9.94 858	6	40	
21	9.66 221	24	9.71 370	31	0.28 630	9.94 852	7	39	
22	9.66 246	24	9.71 401	30	0.28 599	9.94 845	7	38	
23	9.66 270	24	9.71 431	31	0.28 569	9.94 839	7	37	
24	9.66 295	24	9.71 462	31	0.28 538	9.94 832	6	36	
25	9.66 319	24	9.71 493	31	0.28 507	9.94 826	7	35	
26	9.66 343	24	9.71 524	31	0.28 476	9.94 819	7	34	
27	9.66 368	24	9.71 555	31	0.28 445	9.94 813	7	33	
28	9.66 392	24	9.71 586	31	0.28 414	9.94 806	7	32	
29	9.66 416	25	9.71 617	31	0.28 383	9.94 799	6	31	
30	9.66 441	24	9.71 648	31	0.28 352	9.94 793	7	30	
31	9.66 465	24	9.71 679	30	0.28 321	9.94 786	7	29	
32	9.66 489	24	9.71 709	31	0.28 291	9.94 780	7	28	
33	9.66 513	24	9.71 740	31	0.28 260	9.94 773	6	27	
34	9.66 537	24	9.71 771	31	0.28 229	9.94 767	7	26	
35	9.66 562	24	9.71 802	31	0.28 198	9.94 760	7	25	
36	9.66 586	24	9.71 833	31	0.28 167	9.94 753	7	24	
37	9.66 610	24	9.71 863	31	0.28 137	9.94 747	7	23	
38	9.66 634	24	9.71 894	31	0.28 106	9.94 740	7	22	
39	9.66 658	24	9.71 925	30	0.28 075	9.94 734	7	21	
40	9.66 682	24	9.71 955	31	0.28 045	9.94 727	7	20	
41	9.66 706	24	9.71 986	31	0.28 014	9.94 720	6	19	
42	9.66 731	24	9.72 017	31	0.27 983	9.94 714	7	18	
43	9.66 753	24	9.72 048	30	0.27 952	9.94 707	7	17	
44	9.66 779	24	9.72 078	31	0.27 922	9.94 700	6	16	
45	9.66 803	24	9.72 109	31	0.27 891	9.94 694	7	15	
46	9.66 827	24	9.72 140	30	0.27 860	9.94 687	7	14	
47								13	
48								12	
49								11	
50								10	
51								9	
52								8	
53								7	

"	32	31	30
1	0.5	0.5	0.5
2	1.1	1.0	1.0
3	1.6	1.6	1.5
4	2.1	2.1	2.0
5	2.7	2.6	2.5
6	3.2	3.1	3.0
7	3.7	3.6	3.5
8	4.3	4.1	4.0
9	4.8	4.6	4.5
10	5.3	5.2	5.0
20	10.7	10.3	10.0
30	16.0	15.5	15.0
40	21.3	20.7	20.0
50	26.7	25.8	25.0

"	25	24	23
1	0.4	0.4	0.4
2	0.8	0.8	0.8
3	1.2	1.2	1.2
4	1.7	1.6	1.5
5	2.1	2.0	1.9
6	2.5	2.4	2.3
7	2.9	2.8	2.7
8	3.3	3.2	3.1
9	3.8	3.6	3.4
10	4.2	4.0	3.8
20	8.3	8.0	7.7
30	12.5	12.0	11.5
40	16.7	16.0	15.3
50	20.8	20.0	19.2

"	7	6
1	0.1	0.1
2	0.2	0.2
3	0.4	0.3
4	0.5	0.4
5	0.6	0.5
6	0.7	0.6
7	0.8	0.7
8	0.9	0.8
9	1.0	0.9
10	1.2	1.0
20	2.3	2.0
30	3.5	3.0
40	4.7	4.0
50	5.8	5.0



FROM THE FIRST scientific handheld calculator, the HP-35, to the introduction of the HP-41 and the HP-85, personal computation has changed the way people work and play. Portable computing power provided the necessary instantaneous calculations to free great minds for the accomplishment of feats never before possible.

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Hewlett-Packard is proud of its "Great Adventures" and will continue to open new frontiers with future portable computing devices. Devices which will advance the way people access, store and manage ever-increasing amounts of information. The future belongs to the world of electronics, the world of Hewlett-Packard.

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
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19	20	21	22	23	24	25
26	27	28	29	30	31	

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