

Примерен карнет за изчисление на поправките за лата и вертикална рефракция

$H^{\text{в}} \text{ (HP15), [m]}$		$L^{\text{в}}_{\text{лат}} \text{ [mm]}$	$k \text{ }^{\circ}\text{C}$	$b \text{ [Km}^{-1}\text{]}$	$R \text{ [m}^2\text{s}^{-2}\text{K}^{-1}\text{]}$	$g \text{ [ms}^{-2}\text{]}$														
46.73		1000.0000041	0.000001	0.0065	287.0	9.81														
№ изм.	от-до	$B \text{ [m]}$	$F \text{ [m]}$	$S' \text{ [m]}$	$B - F \text{ [m]}$	$t_1^{0.3} \text{ }^{\circ}\text{C}$	$t_2^{0.9} \text{ }^{\circ}\text{C}$	$t_3^{2.7} \text{ }^{\circ}\text{C}$	$\Delta t \text{ }^{\circ}\text{C}$	$I^C \text{ [m]}$	$\delta_1 \text{ [m]}$	$\delta_2 \text{ [m]}$	c	$H^{\text{в}} \text{ [m]}$	$t_m \text{ }^{\circ}\text{C}$	$t_0 \text{ }^{\circ}\text{C}$	$P \text{ [atm]}$	i_R	$R_c \text{ [m]}$	$\Delta h^{\text{вп.}} \text{ [m]}$
71	HP15-9015	1.10699	1.13633	13.32	-0.02934	18.02	17.91	17.86	-0.11	1.55	0.000000	0.000000	-	46.28699	-	-	-	-	-	-0.02934
72	9015-102	1.27904	1.20419	11.22	0.07485	18.09	18.10	17.83	0.01	1.55	0.000000	0.000000	-	46.42970	-	-	-	-	-	0.07485
73	102-103	2.10839	0.91477	11.47	1.19362	18.45	18.39	18.19	-0.06	1.51	0.000005	-0.000002	1.527	47.37232	18.320	291.16	0.99445	0.0000009	0.0000012	1.19362
74	103-104	1.48864	1.76837	14.50	-0.27973	18.73	18.58	18.34	-0.15	1.63	-0.000001	0.000000	0.596	47.82927	18.535	291.37	0.99440	0.0000009	0.0000004	-0.27973
75	104-105	0.95231	2.24173	23.90	-1.28942	19.40	19.30	19.22	-0.10	1.60	-0.000005	0.000002	-0.283	47.04469	19.310	292.15	0.99451	0.0000009	0.0000063	-1.28942
76	105-106	0.82623	2.32998	25.13	-1.50375	19.44	18.85	18.33	-0.59	1.58	-0.000006	0.000003	-0.160	45.64811	18.885	291.74	0.99466	0.0000009	0.0000497	-1.50370
77	106-107	0.76530	2.42815	23.82	-1.66285	18.67	18.47	18.34	-0.20	1.60	-0.000007	0.000003	-0.546	44.06481	18.505	291.37	0.99484	0.0000009	0.0000170	-1.66284
78	107-108	0.66559	2.49426	23.78	-1.82867	18.37	18.32	18.06	-0.05	1.58	-0.000007	0.000003	2.091	42.31905	18.215	291.09	0.99504	0.0000009	-0.0000195	-1.82869
79	108-109	0.64655	2.53694	23.85	-1.89039	18.41	18.18	18.27	-0.23	1.59	-0.000008	0.000003	-	40.45952	-	-	-	-	-	-1.89039
80	109-110	0.77879	2.29556	24.16	-1.51677	18.71	18.61	18.34	-0.10	1.54	-0.000006	0.000003	1.260	38.75594	18.525	291.42	0.99546	0.0000009	-0.0000047	-1.51678
81	110-111	0.69054	2.41104	24.76	-1.72050	18.33	18.29	18.16	-0.04	1.55	-0.000007	0.000003	1.495	37.13730	18.245	291.15	0.99565	0.0000009	-0.0000050	-1.72051
82	111-112	0.98855	2.09039	25.02	-1.10184	18.06	17.94	17.85	-0.12	1.54	-0.000005	0.000002	-0.365	35.72613	17.955	290.87	0.99581	0.0000009	0.0000076	-1.10183
83	112-113	1.15658	1.97267	24.11	-0.81609	18.41	18.30	18.11	-0.11	1.56	-0.000003	0.000001	0.693	34.76717	18.260	291.18	0.99593	0.0000009	0.0000022	-0.81609
84	113-114	1.18290	1.86350	23.73	-0.68060	18.25	18.07	18.18	-0.18	1.52	-0.000003	0.000001	-	34.01882	-	-	-	-	-	-0.68060
85	114-115	1.02199	1.97393	24.54	-0.95194	18.57	18.50	18.42	-0.07	1.50	-0.000004	0.000002	0.169	33.20255	18.495	291.43	0.99611	0.0000009	0.0000034	-0.95194
86	115-116	1.23782	1.73491	23.78	-0.49709	18.30	18.16	18.15	-0.14	1.49	-0.000002	0.000001	-3.347	32.47804	18.225	291.16	0.99619	0.0000009	0.0000012	-0.49709
87	116-117	1.38763	1.70597	23.95	-0.31834	18.19	18.10	17.99	-0.09	1.55	-0.000001	0.000001	0.255	32.07032	18.090	291.03	0.99624	0.0000009	0.0000012	-0.31834
88	117-118	1.55091	1.46043	24.62	0.09048	18.04	17.94	17.92	-0.10	1.51	0.000000	0.000000	-2.041	31.95639	17.980	290.92	0.99625	0.0000009	-0.0000003	0.09048
89	118-119	1.60099	1.67756	22.18	-0.07657	18.67	18.56	18.31	-0.11	1.55	0.000000	0.000000	1.041	32.05262	18.490	291.43	0.99625	0.0000009	-0.0004068	-0.07698
90	119-120	1.78054	1.47395	25.17	0.30659	19.03	18.97	18.67	-0.06	1.63	0.000001	-0.000001	2.041	32.07836	18.850	291.79	0.99625	0.0000009	0.0000041	0.30659
91	120-121	1.74540	1.36748	23.61	0.37792	18.53	18.42	18.36	-0.11	1.56	0.000002	-0.000001	-0.769	32.42061	18.445	291.38	0.99620	0.0000009	-0.0000019	0.37792
92	121-122	1.83149	1.15475	24.57	0.67674	18.37	18.16	17.94	-0.21	1.49	0.000003	-0.000001	0.059	32.94794	18.155	291.09	0.99614	0.0000009	-0.0000076	0.67673
93	122-123	2.00834	1.05611	25.07	0.95223	18.06	17.93	17.81	-0.13	1.53	0.000004	-0.000002	-0.102	33.76243	17.935	290.87	0.99604	0.0000009	-0.0000070	0.95223
94	123-124	2.29014	0.63274	18.86	1.65740	18.29	18.25	17.98	-0.04	1.55	0.000007	-0.000003	2.422	35.06724	18.135	291.06	0.99589	0.0000009	0.0000143	1.65742
95	124-9014	2.00975	0.68492	11.79	1.32483	18.32	18.29	17.95	-0.03	1.55	0.000005	-0.000002	3.079	36.45569	18.135	291.05	0.99573	0.0000009	-0.0000003	1.32483
96	9014-HP14	1.13890	1.14244	12.03	-0.00354	18.22	18.25	18.02	0.03	1.55	0.000000	0.000000	-	36.80967	-	-	-	-	-	-0.00354
$\Delta h^{\text{вп.}} = -9.51277 \text{ m}$																				$\Delta h^{\text{вп.}} = -9.51314 \text{ m}$