

		Hooksiel								Wilhelmshaven								Großer Vogelsand, Leuchtturm				Grosser Vogelsand Neuwerk														
		53°38'31"N 8°04'55"E				Schillig Mellum				53°30'60"N 8°09'00"E				Bremerhaven Wilhelmshaven				54,0000° N, 8,4833° E				Cuxhaven *														
Referentievlak :LAT		50 10 eigen berekening																																		
datum	dag	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw											
1-1	woe	1:10	431	7:41	62	13:33	399	19:54	74	-	-	01:32	481	07:48	72	13:55	449	20:01	84	-	-	00:51	400	07:36	72	13:11	368	19:43	83	-	-					
2-1	don	1:46	430	8:23	60	14:16	390	20:34	77	-	-	02:08	480	08:30	70	14:38	440	20:41	87	-	-	01:27	400	08:20	68	13:58	362	20:25	82	-	-					
3-1	vry	2:23	425	9:02	58	14:54	378	21:11	77	-	-	02:45	475	09:09	68	15:16	428	21:18	87	-	-	02:11	395	09:02	64	14:45	352	21:06	80	-	-					
4-1	zat	2:59	423	9:41	54	15:30	372	21:49	121	-	-	03:21	473	09:48	64	15:52	422	21:56	82	-	-	02:54	390	09:43	60	15:31	345	21:47	74	-	-					
5-1	zon	3:38	427	10:19	121	16:08	370	22:27	65	-	-	04:00	477	10:26	59	16:30	420	22:34	75	-	-	03:38	388	10:22	56	16:15	340	22:28	67	-	-					
6-1	maa	4:22	429	11:01	47	16:52	368	23:10	64	-	-	04:44	479	11:08	57	17:14	418	23:17	74	-	-	04:21	388	11:04	54	16:57	336	23:12	65	-	-					
7-1	din	01:08 VM	5:10	424	11:47	54	17:41	360	23:59	73	-	-	05:32	474	11:54	64	18:03	410	-	-	-	-	05:04	385	11:50	59	17:38	332	-	-	-	-				
8-1	woe	-	-	23:59	73	6:04	408	12:41	68	18:39	347	-	-	00:06	83	06:26	458	12:48	78	19:01	397	-	-	00:00	70	05:50	376	12:40	70	18:22	326	-	-			
9-1	don	-	-	0:57	89	7:08	384	13:46	84	19:53	336	-	-	01:04	99	07:30	434	13:53	94	20:15	386	-	-	00:53	81	06:43	361	13:40	83	19:14	320	-	-			
10-1	vry	-	-	2:11	100	8:27	364	14:59	91	21:11	335	-	-	02:18	110	08:49	414	15:06	101	21:33	385	-	-	02:02	90	07:42	344	14:56	90	20:16	316	-	-			
11-1	zat	-	-	3:30	95	9:45	356	16:08	86	22:21	346	-	-	03:37	105	10:07	406	16:15	96	22:43	396	-	-	03:32	87	08:49	330	16:12	87	21:32	319	-	-			
12-1	zon	-	-	4:43	76	10:58	362	17:16	76	23:23	365	-	-	04:50	86	11:20	412	17:23	86	23:45	415	-	-	04:51	71	10:28	327	17:25	77	23:17	333	-	-			
13-1	maa	-	-	5:53	55	12:03	376	18:22	65	-	-	-	-	06:00	65	12:25	426	18:29	75	-	-	-	-	06:04	53	12:00	340	18:28	66	-	-	-	-			
14-1	din	0:21	384	6:56	42	13:02	389	19:21	60	-	-	00:43	434	07:03	52	13:24	439	19:28	70	-	-	00:17	352	07:02	41	12:54	354	19:19	61	-	-	-	-			
15-1	woe	03:10 LK	1:14	397	7:50	43	13:53	393	20:10	66	-	-	01:36	447	07:57	53	14:15	443	20:17	76	-	-	01:07	367	07:51	43	13:41	362	20:03	66	-	-	-	-		
16-1	don	2:02	402	8:36	59	14:38	387	20:51	82	-	-	02:24	452	08:43	69	15:00	437	20:58	92	-	-	01:52	374	08:34	57	14:23	362	20:41	79	-	-	-	-			
17-1	vry	2:42	398	9:14	78	15:13	375	21:23	98	-	-	03:04	448	09:21	88	15:35	425	21:30	108	-	-	02:31	374	09:11	75	15:00	355	21:16	94	-	-	-	-			
18-1	zat	3:13	394	9:45	89	15:41	367	21:52	103	-	-	03:35	444	09:52	99	16:03	417	21:59	113	-	-	03:04	370	09:45	88	15:31	348	21:46	103	-	-	-	-			
19-1	zon	3:40	393	10:15	87	16:08	367	22:21	97	-	-	04:02	443	10:22	97	16:30	417	22:28	107	-	-	03:27	368	10:15	92	15:58	344	22:15	102	-	-	-	-			
20-1	maa	4:09	395	10:45	76	16:41	369	22:54	87	-	-	04:31	445	10:52	86	17:03	419	23:01	97	-	-	03:39	368	10:44	88	16:17	341	22:45	95	-	-	-	-			
21-1	din	21:53 NM	4:46	392	11:20	71	17:21	367	23:33	84	-	-	05:08	442	11:27	81	17:43	417	23:40	94	-	-	04:04	364	11:15	83	16:38	337	23:21	89	-	-	-	-		
22-1	woe	5:30	379	11:59	78	18:07	357	-	-	-	-	05:52	429	12:06	88	18:29	407	-	-	-	-	04:48	350	11:52	85	17:24	327	-	-	-	-	-	-			
23-1	don	-	-	0:18	93	6:22	359	12:46	99	18:59	346	-	-	00:25	103	06:44	409	12:53	109	19:21	396	-	-	00:06	92	05:48	330	12:41	97	18:35	316	-	-	-	-	
24-1	vry	-	-	1:12	109	7:21	342	13:44	121	19:58	342	-	-	01:19	119	07:43	392	13:51	131	20:20	392	-	-	01:03	102	07:11	314	13:42	112	20:02	315	-	-	-	-	
25-1	zat	-	-	2:22	124	8:26	336	14:56	132	21:05	351	-	-	02:29	134	08:48	386	15:03	142	21:27	401	-	-	02:15	111	08:31	313	14:49	120	21:09	328	-	-	-	-	
26-1	zon	-	-	3:43	123	9:35	344	16:11	124	22:14	372	-	-	03:50	133	09:57	394	16:18	134	22:36	422	-	-	03:32	110	09:35	323	15:58	117	22:08	349	-	-	-	-	
27-1	maa	-	-	4:54	106	10:45	363	17:15	103	23:16	398	-	-	05:01	116	11:07	413	17:22	113	23:38	448	-	-	04:42	100	10:33	337	17:04	105	23:03	368	-	-	-	-	
28-1	din	16:19 EK	-	-	5:53	82	11:46	381	18:11	83	-	-	-	-	06:00	92	12:08	431	18:18	93	-	-	-	-	05:44	84	11:28	349	18:02	90	23:53	381	-	-	-	-
29-1	woe	0:09	416	6:45	61	12:39	391	19:01	68	-	-	00:31	466	06:52	71	13:01	441	19:08	78	-	-	-	-	06:39	67	12:20	354	18:53	75	-	-	-	-			
30-1	don	0:55	422	7:31	46	13:27	390	19:45	58	-	-	01:17	472	07:38	56	13:49	440	19:52	68	-	-	00:37	384	07:28	53	13:07	352	19:39	63	-	-	-	-			
31-1	vry	1:36	421	8:13	36	14:08	383	20:25	50	-	-	01:58	471	08:20	46	14:30	433	20:32	60	-	-	01:18	382	08:14	42	13:50	347	20:21	53	-	-	-	-			
1-2	zat	2:13	421	8:52	28	14:45	378	21:02	41	-	-	02:35	471	08:59	38	15:07	428	21:09	51	-	-	01:59	381	08:54	35	14:32	344	21:00	44	-	-	-	-			
2-2	zon	2:49	426	9:30	20	15:19	379	21:39	30	-	-	03:11	476	09:37	30	15:41	429	21:46	40	-	-	02:41	384	09:33	31	15:13	343	21:38	35	-	-	-	-			
3-2	maa	3:27	435	10:07	17	15:55	381	22:17	24	-	-	03:49	485	10:14	27	16:17	431	22:24	34	-	-	03:23	388	10:09	30	15:53	342	22:15	31	-	-	-	-			
4-2	din	4:09	436	10:46	22	16:35	379	22:56	29	-	-	04:31	486	10:53	32	16:57	429	23:03	39	-	-	04:05	388	10:45	35	16:32	339	22:53	33	-	-	-	-			
5-2	woe	19:28 VM	4:55	422	11:27	38	17:18	366	23:40	45	-	-	05:17	472	11:34	48	17:40	416	23:47	55	-	-	04:45	378	11:23	47	17:06	330	23:34	45	-	-	-	-		
6-2	don	5:45	394	12:12	63	18:08	346	-	-	-	-	06:07	444	12:19	73	18:30	396	-	-	-	-	05:27	358	12:04	64	17:43	318	-	-	-	-	-	-			
7-2	vry	-	-	0:32	70	6:51	360	13:12	91	19:21	327	-	-	00:39	80	07:13	410	13:19	101	19:43	377	-	-	00:21	61	06:17	332	12:53	84	18:37	305	-	-	-	-	
8-2	zat	-	-	1:46	90	8:16	337	14:34	106	20:51	323	-	-	01:53	100	08:38	387	14:41	116	21:13	373	-	-	01:28	77	07:24	309	14:24	97	19:55	297	-	-	-	-	
9-2	zon	-	-	3:16	89	9:39	338	15:59	99	22:09	341	-	-	03:23	99	10:01	388	16:06	109	22:31	391	-	-	03:23	76	09:09	300	16:07	88	22:10	308	-	-	-	-	

Referentievlak :LAT lw

Referentievlak :LAT lw		10 eigen berekening										Cuxhaven *																					
datum	dag	HW	lw	HW	lw	HW	HW	lw	HW	lw	HW	HW	lw	HW	lw	HW																	
10-2	maa	-	-	4:40	70	10:55	359	17:16	77	23:17	371	-	-	04:47	80	11:17	409	17:23	87	23:39	421	-	-	04:54	57	11:01	320	17:26	67	23:22	337		
11-2	din	-	-	5:53	48	12:00	384	18:22	56	-	-	-	-	06:00	58	12:22	434	18:29	66	-	-	-	-	06:03	38	11:59	345	18:23	51	-	-		
12-2	woe	0:17	397	6:53	36	12:55	399	19:15	49	-	-	00:39	447	07:00	46	13:17	449	19:22	59	-	-	00:14	363	06:56	32	12:46	362	19:10	48	-	-		
13-2	don	17:01	LK	1:07	411	7:42	41	13:41	398	19:58	57	-	-	01:29	461	07:49	51	14:03	448	20:05	67	-	-	00:58	377	07:39	40	13:26	366	19:49	57	-	-
14-2	vry	1:48	409	8:21	57	14:18	387	20:33	71	-	-	02:10	459	08:28	67	14:40	437	20:40	81	-	-	01:36	379	08:16	56	14:00	361	20:22	68	-	-		
15-2	zat	2:19	401	8:53	68	14:44	378	21:00	76	-	-	02:41	451	09:00	78	15:06	428	21:07	86	-	-	02:07	374	08:47	67	14:28	356	20:51	72	-	-		
16-2	zon	2:43	396	9:18	65	15:05	379	21:25	66	-	-	03:05	446	09:25	75	15:27	429	21:32	76	-	-	02:32	369	09:13	66	14:54	354	21:18	67	-	-		
17-2	maa	3:07	398	9:43	51	15:31	387	21:52	51	-	-	03:29	448	09:50	61	15:53	437	21:59	61	-	-	02:54	367	09:39	58	15:17	355	21:46	57	-	-		
18-2	din	3:37	401	10:10	40	16:02	391	22:22	42	-	-	03:59	451	10:17	50	16:24	441	22:29	52	-	-	03:15	366	10:05	52	15:38	353	22:14	50	-	-		
19-2	woe	4:11	396	10:39	44	16:34	385	22:54	48	-	-	04:33	446	10:46	54	16:56	435	23:01	58	-	-	03:43	360	10:31	54	16:00	348	22:44	54	-	-		
20-2	don	08:06	NM	4:47	382	11:10	64	17:08	373	23:28	67	-	-	05:09	432	11:17	74	17:30	423	23:35	77	-	-	04:17	348	10:59	69	16:30	339	23:18	69	-	-
21-2	vry	5:27	365	11:46	93	17:48	361	-	-	-	-	05:49	415	11:53	103	18:10	411	-	-	-	-	04:59	333	11:36	93	17:14	329	-	-	-	-		
22-2	zat	-	-	0:09	94	6:17	349	12:33	123	18:42	353	-	-	00:16	104	06:39	399	12:40	133	19:04	403	-	-	00:02	91	06:03	318	12:28	117	18:32	323		
23-2	zon	-	-	1:06	122	7:22	340	13:39	145	19:55	354	-	-	01:13	132	07:44	390	13:46	155	20:17	404	-	-	01:07	112	07:27	313	13:38	131	20:02	330		
24-2	maa	-	-	2:31	136	8:39	343	15:14	143	21:22	369	-	-	02:38	146	09:01	393	15:21	153	21:44	419	-	-	02:29	117	08:44	322	14:56	127	21:20	348		
25-2	din	-	-	4:15	116	10:07	359	16:43	113	22:44	393	-	-	04:22	126	10:29	409	16:50	123	23:06	443	-	-	03:56	102	09:55	336	16:22	107	22:29	366		
26-2	woe	-	-	5:26	79	11:23	379	17:48	81	-	-	-	-	05:33	89	11:45	429	17:55	91	-	-	-	-	05:15	74	11:03	347	17:38	80	23:28	375		
27-2	don	09:06	EK	23:06	411	6:22	48	12:19	388	18:39	58	-	-	00:06	461	06:29	58	12:41	438	18:46	68	-	-	-	-	06:16	49	12:01	351	18:33	56	-	-
28-2	vry	0:32	417	7:09	31	13:06	387	19:24	44	-	-	00:54	467	07:16	41	13:28	437	19:31	54	-	-	00:16	377	07:08	32	12:47	348	19:20	41	-	-		
1-3	zat	1:13	418	7:51	21	13:46	382	20:03	32	-	-	01:35	468	07:58	31	14:08	432	20:10	42	-	-	00:57	376	07:53	23	13:26	344	20:02	30	-	-		
2-3	zon	1:50	422	8:29	13	14:21	382	20:41	18	-	-	02:12	472	08:36	23	14:43	432	20:48	28	-	-	01:36	379	08:33	18	14:04	346	20:41	20	-	-		
3-3	maa	2:27	432	9:07	5	14:55	389	21:18	4	-	-	02:49	482	09:14	15	15:17	439	21:25	14	-	-	02:18	387	09:10	16	14:45	350	21:18	12	-	-		
4-3	din	3:08	439	9:44	3	15:31	395	21:57	-1	-	-	03:30	489	09:51	13	15:53	445	22:04	9	-	-	03:01	392	09:46	17	15:27	353	21:55	8	-	-		
5-3	woe	3:51	433	10:22	12	16:11	392	22:36	7	-	-	04:13	483	10:29	22	16:33	442	22:43	17	-	-	03:45	386	10:19	24	16:07	349	22:32	13	-	-		
6-3	don	13:40	VM	4:37	410	11:00	34	16:52	377	23:19	30	-	-	04:59	460	11:07	44	17:14	427	23:26	40	-	-	04:28	367	10:52	39	16:43	338	23:11	28	-	-
7-3	vry	5:29	375	11:42	67	17:41	353	-	-	-	-	05:51	425	11:49	77	18:03	403	-	-	-	-	05:11	339	11:28	60	17:20	321	23:55	50	-	-		
8-3	zat	-	-	0:09	61	6:38	340	12:38	104	18:55	329	-	-	00:16	71	07:00	390	12:45	114	19:17	379	06:04	310	12:12	84	18:17	305	-	-	-	-		
9-3	zon	-	-	1:24	90	8:03	324	14:12	126	20:31	327	-	-	01:31	100	08:25	374	14:19	136	20:53	377	-	-	01:04	74	07:25	291	13:44	106	20:01	298		
10-3	maa	-	-	3:05	95	9:27	336	15:50	113	21:55	353	-	-	03:12	105	09:49	386	15:57	123	22:17	403	-	-	03:17	74	09:34	298	15:59	91	22:05	323		
11-3	din	-	-	4:33	75	10:45	366	17:08	82	23:07	390	-	-	04:40	85	11:07	416	17:15	92	23:29	440	-	-	04:44	55	10:50	329	17:11	66	23:09	358		
12-3	woe	-	-	5:43	50	11:50	395	18:09	57	-	-	-	-	05:50	60	12:12	445	18:16	67	-	-	-	-	05:47	37	11:44	355	18:05	48	23:57	382		
13-3	don	0:05	417	6:37	38	12:42	406	18:57	49	-	-	00:27	467	06:44	48	13:04	456	19:04	59	-	-	-	-	06:36	32	12:27	368	18:49	46	-	-		
14-3	vry	03:08	LK	0:51	421	7:21	42	13:22	398	19:36	55	-	-	01:13	471	07:28	52	13:44	448	19:43	65	-	-	00:37	388	07:16	40	13:01	366	19:26	53	-	-
15-3	zat	1:25	409	7:56	53	13:49	386	20:06	61	-	-	01:47	459	08:03	63	14:11	436	20:13	71	-	-	01:08	380	07:48	51	13:27	360	19:55	56	-	-		
16-3	zon	1:49	397	8:22	54	14:08	384	20:30	53	-	-	02:11	447	08:29	64	14:30	434	20:37	63	-	-	01:34	371	08:14	52	13:50	359	20:20	49	-	-		
17-3	maa	2:10	396	8:45	42	14:30	395	20:55	35	-	-	02:32	446	08:52	52	14:52	445	21:02	45	-	-	01:56	367	08:37	42	14:15	364	20:47	35	-	-		
18-3	din	2:38	403	9:10	27	15:00	407	21:24	22	-	-	03:00	453	09:17	37	15:22	457	21:31	32	-	-	02:22	368	09:03	33	14:43	367	21:16	28	-	-		
19-3	woe	3:11	405	9:38	28	15:33	408	21:54	26	-	-	03:33	455	09:45	38	15:55	458	22:01	36	-	-	02:53	366	09:31	35	15:12	365	21:46	33	-	-		
20-3	don	18:23	NM	3:45	398	10:06	46	16:03	399	22:22	46	-	-	04:07	448	10:13	56	16:25	449	22:29	56	-	-	03:25	359	09:58	52	15:37	358	22:16	51	-	-
21-3	vry	4:19	383	10:34	74	16:33	388	22:53	71	-	-	04:41	433	10:41	84	16:55	438	23:00	81	-	-	03:54	348	10:25	77	15:59	352	22:46	75	-	-		
22-3	zat	4:53	368	11:05	100	17:08	380	23:31	95	-	-	05:15	418	11:12	110	17:30	430	23:38	105	-	-	04:19	337	10:58	102	16:27	348	23:28	96	-	-		
23-3	zon	5:39	356	11:49	123	18:00	374	-	-	-	-	06:01	406	11:56	133	18:22	424	-	-	-	-	05:06	326	11:47	121	17:40	343	-	-	-	-		
24-3	maa	-	-	0:26	115	6:44	348	12:52	140	19:13	372	-	-	00:33	125	07:06	398	12:59	150	19:35	422	-	-	00:32	110	06:49	321	12:58	129	19:17	346		
25-3	din	-	-	1:44	125	8:04	349	14:24	141	20:40	379	-	-	01:51	135	08:26	399	14:31	151	21:02	429	-	-	01:52	106	08:09	329	14:17	119	20:37	358		

Referentievlak :LAT lw

		10 eigen berekening										Cuxhaven *																					
datum	dag	HW	lw	HW	lw	HW	lw	HW	lw	HW	HW	lw	HW	lw	HW																		
26-3	woe	-	-	3:32	104	9:35	363	16:04	111	22:07	397	-	-	03:39	114	09:57	413	16:11	121	22:29	447	-	-	03:17	85	09:22	342	15:42	96	21:50	371		
27-3	don	-	-	4:51	65	10:53	381	17:14	76	23:11	412	-	-	04:58	75	11:15	431	17:21	86	23:33	462	-	-	04:38	57	10:31	351	17:03	68	22:54	378		
28-3	vry	04:32	EK	-	-	5:49	37	11:50	389	18:08	54	-	-	05:56	47	12:12	439	18:15	64	-	-	-	-	05:44	34	11:30	353	18:04	46	23:45	379		
29-3	zat			0:01	418	6:37	24	12:36	386	18:54	40	-	-	00:23	468	06:44	34	12:58	436	19:01	50	-	-	-	-	06:38	23	12:16	350	18:54	34	-	-
30-3	zon			0:43	420	8:20	10	14:15	384	20:35	27	-	-	01:05	470	08:27	20	14:37	434	20:42	37	-	-	00:27	380	08:24	20	13:55	349	20:37	25	-	-
31-3	maa			2:23	426	9:00	10	14:51	390	21:14	10	-	-	02:45	476	09:07	20	15:13	440	21:21	20	-	-	02:08	384	09:06	10	14:34	355	21:17	14	-	-
1-4	din			3:04	434	9:39	0	15:28	402	21:54	-6	-	-	03:26	484	09:46	10	15:50	452	22:01	4	-	-	02:52	390	09:43	10	15:18	363	21:56	4	-	-
2-4	woe			3:48	434	10:18	0	16:08	410	22:36	-10	-	-	04:10	484	10:25	10	16:30	460	22:43	0	-	-	03:40	390	10:18	10	16:04	368	22:34	0	-	-
3-4	don			4:34	420	10:56	10	16:50	405	23:17	2	-	-	04:56	470	11:03	20	17:12	455	23:24	12	-	-	04:28	378	10:51	20	16:47	363	23:12	8	-	-
4-4	vry			5:23	393	11:35	40	17:33	388	-	-	-	-	05:45	443	11:42	50	17:55	438	-	-	-	-	05:15	355	11:23	40	17:27	349	23:50	28	-	-
5-4	zat	06:34	VM	-	-	0:01	30	6:17	359	12:17	79	18:24	364	-	-	00:08	40	06:39	409	12:24	89	18:46	414	06:02	327	11:58	60	18:07	333	-	-	-	-
6-4	zon			-	-	0:52	60	7:25	333	13:13	117	19:38	346	-	-	00:59	70	07:47	383	13:20	127	20:00	396	-	-	00:35	50	06:58	304	12:42	93	19:05	320
7-4	maa			-	-	2:07	100	8:44	326	14:49	138	21:09	349	-	-	02:14	110	09:06	376	14:56	148	21:31	399	-	-	02:14	80	08:24	295	14:32	117	20:57	321
8-4	din			-	-	3:47	100	10:06	343	16:26	124	22:32	378	-	-	03:54	110	10:28	393	16:33	134	22:54	428	-	-	03:58	80	10:11	310	16:29	101	22:40	350
9-4	woe			-	-	5:10	80	11:23	374	17:41	93	-	-	-	-	05:17	90	11:45	424	17:48	103	-	-	-	-	05:14	60	11:24	339	17:39	76	23:41	380
10-4	don			22:54	410	6:16	50	12:26	398	18:40	67	-	-	00:04	460	06:23	60	12:48	448	18:47	77	-	-	-	-	06:16	40	12:16	361	18:34	57	-	-
11-4	vry			0:38	426	7:07	40	13:14	404	19:27	56	-	-	01:00	476	07:14	50	13:36	454	19:34	66	-	-	00:28	393	07:04	30	12:56	367	19:19	50	-	-
12-4	zat	11:11	LK	1:21	419	7:48	40	13:48	394	20:03	54	-	-	01:43	469	07:55	50	14:10	444	20:10	64	-	-	01:05	387	07:42	40	13:25	363	19:54	50	-	-
13-4	zon			1:52	401	8:20	40	14:10	388	20:32	49	-	-	02:14	451	08:27	50	14:32	438	20:39	59	-	-	01:33	373	08:13	40	13:49	359	20:23	46	-	-
14-4	maa			2:14	393	8:45	40	14:30	397	20:58	34	-	-	02:36	443	08:52	50	14:52	447	21:05	44	-	-	01:58	364	08:37	40	14:14	364	20:49	35	-	-
15-4	din			2:40	399	9:11	20	15:00	414	21:27	18	-	-	03:02	449	09:18	30	15:22	464	21:34	28	-	-	02:24	365	09:03	30	14:43	374	21:19	25	-	-
16-4	woe			3:14	410	9:41	20	15:36	424	22:00	17	-	-	03:36	460	09:48	30	15:58	474	22:07	27	-	-	02:56	369	09:33	30	15:18	379	21:52	28	-	-
17-4	don			3:53	412	10:12	30	16:12	422	22:32	36	-	-	04:15	462	10:19	40	16:34	472	22:39	46	-	-	03:34	369	10:04	40	15:54	377	22:25	45	-	-
18-4	vry			4:29	401	10:43	60	16:44	411	23:03	63	-	-	04:51	451	10:50	70	17:06	461	23:10	73	-	-	04:12	361	10:35	60	16:28	370	22:58	69	-	-
19-4	zat	06:14	NM	5:03	383	11:11	90	17:15	401	23:34	85	-	-	05:25	433	11:18	100	17:37	451	23:41	95	-	-	04:47	348	11:05	90	16:55	364	23:33	89	-	-
20-4	zon			5:38	368	11:43	100	17:51	398	-	-	-	-	06:00	418	11:50	110	18:13	448	-	-	-	-	05:18	337	11:40	110	17:19	362	-	-	-	-
21-4	maa			-	-	0:14	90	6:24	359	12:28	118	18:42	396	-	-	00:21	100	06:46	409	12:35	128	19:04	446	-	-	00:17	90	06:16	329	12:31	119	18:32	361
22-4	din			-	-	1:09	90	7:26	356	13:31	123	19:51	394	-	-	01:16	100	07:48	406	13:38	133	20:13	444	-	-	01:19	90	07:33	329	13:39	115	19:52	365
23-4	woe			-	-	2:24	90	8:43	361	14:55	118	21:11	399	-	-	02:31	100	09:05	411	15:02	128	21:33	449	-	-	02:32	80	08:46	337	14:52	101	21:06	372
24-4	don			-	-	3:55	70	10:06	374	16:24	94	22:30	412	-	-	04:02	80	10:28	424	16:31	104	22:52	462	-	-	03:48	60	09:55	348	16:11	81	22:15	381
25-4	vry			-	-	5:11	40	11:18	389	17:35	67	23:35	423	-	-	05:18	50	11:40	439	17:42	77	23:57	473	-	-	05:03	40	10:59	356	17:28	60	23:19	385
26-4	zat	23:20	EK	-	-	6:10	20	12:15	394	18:32	49	-	-	-	-	06:17	30	12:37	444	18:39	59	-	-	-	-	06:09	20	11:57	357	18:31	45	-	-
27-4	zon			0:27	427	7:01	10	13:02	394	19:20	35	-	-	00:49	477	07:08	20	13:24	444	19:27	45	-	-	00:12	386	07:06	20	12:45	357	19:24	36	-	-
28-4	maa			1:13	429	7:47	10	13:43	398	20:05	19	-	-	01:35	479	07:54	20	14:05	448	20:12	29	-	-	00:57	387	07:53	20	13:26	360	20:10	26	-	-
29-4	din			1:58	432	8:30	0	14:23	407	20:49	1	-	-	02:20	482	08:37	10	14:45	457	20:56	11	-	-	01:42	389	08:36	20	14:10	369	20:53	13	-	-
30-4	woe			2:45	432	9:13	0	15:05	418	21:34	-10	-	-	03:07	482	09:20	10	15:27	468	21:41	0	-	-	02:31	389	09:15	10	14:57	377	21:35	3	-	-
1-5	don			3:34	425	9:55	0	15:50	422	22:18	-10	-	-	03:56	475	10:02	10	16:12	472	22:25	0	-	-	03:24	383	09:52	20	15:46	380	22:16	3	-	-
2-5	vry			4:25	408	10:37	20	16:36	414	23:03	9	-	-	04:47	458	10:44	30	16:58	464	23:10	19	-	-	04:17	370	10:28	30	16:33	375	22:58	18	-	-
3-5	zat			5:16	384	11:19	50	17:22	399	23:49	42	-	-	05:38	434	11:26	60	17:44	449	23:56	52	-	-	05:07	350	11:04	50	17:17	364	23:41	45	-	-
4-5	zon	19:34	VM	6:08	360	12:03	80	18:14	384	-	-	-	-	06:30	410	12:10	90	18:36	434	-	-	-	-	05:57	331	11:41	70	18:01	355	-	-	-	-
5-5	maa			-	-	0:41	70	7:07	345	12:57	117	19:19	377	-	-	00:48	80	07:29	395	13:04	127	19:41	427	-	-	00:35	70	06:52	318	12:27	102	18:57	350
6-5	din			-	-	1:50	100	8:13	344	14:14	131	20:35	384	-	-	01:57	110	08:35	394	14:21	141	20:57	434	-	-	02:07	90	08:03	317	14:08	118	20:27	356
7-5	woe			-	-	3:10	100	9:24	357	15:36	122	21:48	401	-	-	03:17	110	09:46	407	15:43	132	22:10	451	-	-	03:20	80	09:23	329	15:41	107	21:52	373
8-5	don			-	-	4:22	80	10:34	376	16:48	99	22:55	415	-	-	04:29	90	10:56	426	16:55	109	23:17	465	-	-	04:23	60	10:33	348	16:48	86	22:54	387

Referentievlak :LAT lw

10
eigen berekening

Cuxhaven *

datum	dag	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw															
9-5	vry	-	-	5:25	60	11:36	390	17:50	76	-	-	05:32	70	11:58	440	17:57	86	-	-	05:23	50	11:27	361	17:48	66	23:43	386					
10-5	zat	23:17	414	6:18	40	12:24	393	18:41	60	-	-	00:13	464	06:25	50	12:46	443	18:48	70	-	-	06:16	40	12:09	363	18:37	54	-	-			
11-5	zon	16:28	0:36	7:01	40	12:57	390	19:21	50	-	-	00:58	452	07:08	50	13:19	440	19:28	60	-	-	00:22	374	06:58	40	12:41	362	19:16	48	-	-	
12-5	maa	1:08	390	7:35	40	13:23	394	19:54	39	-	-	01:30	440	07:42	50	13:45	444	20:01	49	-	-	00:54	363	07:31	40	13:11	364	19:48	43	-	-	
13-5	din	1:37	392	8:06	30	13:53	411	20:26	27	-	-	01:59	442	08:13	40	14:15	461	20:33	37	-	-	01:24	361	08:00	40	13:41	375	20:18	37	-	-	
14-5	woe	2:11	406	8:39	30	14:31	429	21:01	21	-	-	02:33	456	08:46	40	14:53	479	21:08	31	-	-	01:55	368	08:31	40	14:16	389	20:53	35	-	-	
15-5	don	2:51	418	9:15	30	15:12	439	21:38	29	-	-	03:13	468	09:22	40	15:34	489	21:45	39	-	-	02:33	377	09:05	40	14:56	397	21:30	43	-	-	
16-5	vry	3:33	418	9:51	40	15:51	436	22:14	49	-	-	03:55	468	09:58	50	16:13	486	22:21	59	-	-	03:16	378	09:40	50	15:37	397	22:07	60	-	-	
17-5	zat	4:11	405	10:24	70	16:25	426	22:48	70	-	-	04:33	455	10:31	80	16:47	476	22:55	80	-	-	04:00	369	10:15	70	16:16	390	22:44	77	-	-	
18-5	zon	17:53 NM	4:47	386	10:55	90	16:57	419	23:22	80	-	-	05:09	436	11:02	100	17:19	469	23:29	90	-	-	04:42	355	10:50	90	16:53	383	23:23	85	-	-
19-5	maa	5:24	373	11:30	90	17:36	418	-	-	-	-	05:46	423	11:37	100	17:58	468	-	-	-	-	05:26	343	11:30	100	17:32	380	-	-	-	-	
20-5	din	-	-	0:03	70	6:09	368	12:15	96	18:25	418	-	-	00:10	80	06:31	418	12:22	106	18:47	468	-	-	00:10	80	06:17	337	12:21	100	18:25	379	
21-5	woe	-	-	0:56	70	7:06	368	13:13	93	19:27	417	-	-	01:03	80	07:28	418	13:20	103	19:49	467	-	-	01:05	70	07:15	338	13:21	91	19:27	381	
22-5	don	-	-	2:02	60	8:14	372	14:25	88	20:38	417	-	-	02:09	70	08:36	422	14:32	98	21:00	467	-	-	02:08	50	08:17	344	14:26	80	20:32	385	
23-5	vry	-	-	3:18	50	9:28	378	15:42	78	21:50	421	-	-	03:25	60	09:50	428	15:49	88	22:12	471	-	-	03:16	40	09:19	351	15:36	71	21:35	388	
24-5	zat	-	-	4:29	30	10:37	385	16:52	64	22:55	424	-	-	04:36	40	10:59	435	16:59	74	23:17	474	-	-	04:27	40	10:19	355	16:50	63	22:33	388	
25-5	zon	-	-	5:30	20	11:36	390	17:53	50	-	-	-	-	05:37	30	11:58	440	18:00	60	-	-	-	-	05:32	30	11:14	358	17:56	54	23:27	386	
26-5	maa	17:22 EK	23:17	424	6:24	20	12:26	395	18:47	35	-	-	00:14	474	06:31	30	12:48	445	18:54	45	-	-	-	-	06:30	30	12:05	361	18:52	44	-	-
27-5	din	0:45	423	7:15	10	13:12	403	19:39	18	-	-	01:07	473	07:22	20	13:34	453	19:46	28	-	-	00:21	384	07:21	30	12:54	367	19:44	31	-	-	
28-5	woe	1:38	422	8:04	10	13:59	413	20:29	3	-	-	02:00	472	08:11	20	14:21	463	20:36	13	-	-	01:18	381	08:07	30	13:47	375	20:32	19	-	-	
29-5	don	2:32	419	8:53	10	14:50	419	21:20	-2	-	-	02:54	469	09:00	20	15:12	469	21:27	8	-	-	02:18	379	08:52	30	14:41	382	21:21	13	-	-	
30-5	vry	3:28	411	9:41	20	15:40	419	22:09	10	-	-	03:50	461	09:48	30	16:02	469	22:16	20	-	-	03:16	374	09:36	30	15:33	384	22:09	21	-	-	
31-5	zat	4:21	397	10:28	40	16:29	413	22:56	35	-	-	04:43	447	10:35	50	16:51	463	23:03	45	-	-	04:09	366	10:18	50	16:22	382	22:57	41	-	-	
1-6	zon	5:09	381	11:11	70	17:15	405	23:42	64	-	-	05:31	431	11:18	80	17:37	455	23:49	74	-	-	04:59	354	10:59	70	17:07	378	23:45	67	-	-	
2-6	maa	5:55	366	11:53	90	18:01	402	-	-	-	-	06:17	416	12:00	100	18:23	452	-	-	-	-	05:46	343	11:38	90	17:48	376	-	-	-	-	
3-6	din	05:42 VM	-	-	0:29	80	6:42	359	12:40	109	18:52	403	-	-	00:36	90	07:04	409	12:47	119	19:14	453	-	-	00:36	80	06:32	337	12:21	108	18:31	376
4-6	woe	-	-	1:23	90	7:35	361	13:37	113	19:52	405	-	-	01:30	100	07:57	411	13:44	123	20:14	455	-	-	01:34	90	07:27	336	13:27	113	19:36	375	
5-6	don	-	-	2:23	80	8:34	366	14:43	108	20:56	404	-	-	02:30	90	08:56	416	14:50	118	21:18	454	-	-	02:33	80	08:31	340	14:46	106	20:53	374	
6-6	vry	-	-	3:27	70	9:36	373	15:51	95	22:00	399	-	-	03:34	80	09:58	423	15:58	105	22:22	449	-	-	03:31	70	09:34	347	15:53	90	21:58	371	
7-6	zat	-	-	4:28	60	10:36	378	16:56	79	22:59	389	-	-	04:35	70	10:58	428	17:03	89	23:21	439	-	-	04:28	60	10:30	352	16:55	73	22:53	364	
8-6	zon	-	-	5:24	50	11:28	381	17:53	65	-	-	-	-	05:31	60	11:50	431	18:00	75	-	-	-	-	05:22	50	11:18	356	17:50	62	23:39	356	
9-6	maa	21:31 LK	23:21	381	6:13	50	12:10	386	18:40	55	-	-	00:12	431	06:20	60	12:32	436	18:47	65	-	-	-	-	06:11	50	12:00	361	18:36	57	-	-
10-6	din	0:31	380	6:56	50	12:48	400	19:21	48	-	-	00:53	430	07:03	60	13:10	450	19:28	58	-	-	00:18	354	06:52	60	12:38	371	19:15	56	-	-	
11-6	woe	1:08	391	7:35	50	13:27	419	20:01	43	-	-	01:30	441	07:42	60	13:49	469	20:08	53	-	-	00:54	361	07:28	60	13:14	387	19:53	56	-	-	
12-6	don	1:48	407	8:15	40	14:09	435	20:41	43	-	-	02:10	457	08:22	50	14:31	485	20:48	53	-	-	01:30	373	08:03	60	13:52	402	20:32	58	-	-	
13-6	vry	2:31	416	8:55	50	14:51	443	21:21	49	-	-	02:53	466	09:02	60	15:13	493	21:28	59	-	-	02:10	381	08:41	60	14:33	410	21:14	63	-	-	
14-6	zat	3:14	412	9:34	60	15:30	439	22:00	59	-	-	03:36	462	09:41	70	15:52	489	22:07	69	-	-	02:56	381	09:20	70	15:16	409	21:54	69	-	-	
15-6	zon	3:54	398	10:10	70	16:04	431	22:37	66	-	-	04:16	448	10:17	80	16:26	481	22:44	76	-	-	03:44	371	09:59	80	15:57	402	22:34	72	-	-	
16-6	maa	4:30	383	10:44	80	16:39	427	23:13	64	-	-	04:52	433	10:51	90	17:01	477	23:20	74	-	-	04:29	359	10:38	80	16:38	395	23:14	69	-	-	
17-6	din	06:37 NM	5:07	375	11:21	80	17:19	429	-	-	-	-	05:29	425	11:28	90	17:41	479	-	-	-	-	05:14	349	11:20	80	17:20	392	23:57	61	-	-
18-6	woe	-	-	23:53	50	5:50	374	12:03	71	18:06	432	-	-	00:00	60	06:12	424	12:10	81	18:28	482	05:59	345	12:07	70	18:06	392	-	-	-	-	
19-6	don	-	-	0:41	40	6:41	375	12:54	67	19:00	429	-	-	00:48	50	07:03	425	13:01	77	19:22												

Referentievlak :LAT lw

		10 eigen berekening										Cuxhaven *																				
datum	dag	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW																
22-6	zon	-	-	3:50	50	9:56	369	16:14	75	22:19	404	-	-	03:57	60	10:18	419	16:21	85	22:41	454	-	-	03:45	60	09:25	347	16:08	76	21:43	377	
23-6	maa	-	-	4:55	50	11:00	374	17:21	63	23:26	399	-	-	05:02	60	11:22	424	17:28	73	23:48	449	-	-	04:54	60	10:21	349	17:22	69	22:44	370	
24-6	din	-	-	5:55	40	11:58	383	18:24	46	-	-	-	-	06:02	50	12:20	433	18:31	56	-	-	-	-	05:57	60	11:23	354	18:27	56	23:53	365	
25-6	woe	09:50 EK	0:29	400	6:54	40	12:55	395	19:25	29	-	-	00:51	450	07:01	50	13:17	445	19:32	39	-	-	-	-	06:56	50	12:34	362	19:28	42	-	-
26-6	don	1:32	403	7:52	30	13:51	406	20:24	20	-	-	01:54	453	07:59	40	14:13	456	20:31	30	-	-	01:14	366	07:52	50	13:40	373	20:26	33	-	-	
27-6	vry	2:31	405	8:49	40	14:46	414	21:19	24	-	-	02:53	455	08:56	50	15:08	464	21:26	34	-	-	02:18	370	08:44	50	14:35	382	21:20	34	-	-	
28-6	zat	3:27	402	9:41	50	15:38	415	22:09	41	-	-	03:49	452	09:48	60	16:00	465	22:16	51	-	-	03:12	371	09:33	50	15:26	387	22:09	47	-	-	
29-6	zon	4:16	393	10:26	60	16:23	412	22:52	63	-	-	04:38	443	10:33	70	16:45	462	22:59	73	-	-	04:01	367	10:17	70	16:11	387	22:53	67	-	-	
30-6	maa	4:58	380	11:04	80	17:02	409	23:31	80	-	-	05:20	430	11:11	90	17:24	459	23:38	90	-	-	04:44	359	10:56	90	16:50	385	23:33	85	-	-	
1-7	din	5:34	371	11:39	90	17:38	409	-	-	-	-	05:56	421	11:46	100	18:00	459	-	-	-	-	05:22	351	11:30	100	17:21	383	-	-	-	-	
2-7	woe	13:39 VM	-	-	0:08	80	6:11	369	12:17	98	18:19	410	-	-	00:15	90	06:33	419	12:24	108	18:41	460	-	-	00:11	90	05:58	346	12:05	107	17:46	381
3-7	don	-	-	0:49	80	6:55	371	13:01	95	19:07	404	-	-	00:56	90	07:17	421	13:08	105	19:29	454	-	-	00:52	90	06:38	343	12:47	104	18:28	373	
4-7	vry	-	-	1:37	70	7:46	370	13:55	93	20:05	391	-	-	01:44	80	08:08	420	14:02	103	20:27	441	-	-	01:40	80	07:36	339	13:45	99	19:46	358	
5-7	zat	-	-	2:33	70	8:43	368	14:58	94	21:07	376	-	-	02:40	80	09:05	418	15:05	104	21:29	426	-	-	02:36	80	08:41	337	14:54	94	21:04	347	
6-7	zon	-	-	3:35	80	9:43	366	16:07	92	22:11	366	-	-	03:42	90	10:05	416	16:14	102	22:33	416	-	-	03:35	80	09:41	340	16:02	89	22:06	341	
7-7	maa	-	-	4:38	80	10:42	372	17:12	87	23:11	367	-	-	04:45	90	11:04	422	17:19	97	23:33	417	-	-	04:34	80	10:36	348	17:05	85	23:00	343	
8-7	din	-	-	5:36	80	11:36	386	18:10	79	-	-	-	-	05:43	90	11:58	436	18:17	89	-	-	-	-	05:30	80	11:26	361	18:01	83	23:48	351	
9-7	woe	03:48 LK	0:04	377	6:28	80	12:26	407	19:00	71	-	-	00:26	427	06:35	90	12:48	457	19:07	81	-	-	-	-	06:21	80	12:12	379	18:51	82	-	-
10-7	don	0:51	393	7:16	70	13:12	427	19:46	64	-	-	01:13	443	07:23	80	13:34	477	19:53	74	-	-	00:32	363	07:06	80	12:56	396	19:38	79	-	-	
11-7	vry	1:36	406	8:01	60	13:56	441	20:30	58	-	-	01:58	456	08:08	70	14:18	491	20:37	68	-	-	01:14	373	07:50	80	13:38	407	20:24	75	-	-	
12-7	zat	2:22	411	8:44	60	14:39	443	21:12	55	-	-	02:44	461	08:51	70	15:01	493	21:19	65	-	-	01:58	377	08:32	80	14:19	410	21:07	70	-	-	
13-7	zon	3:05	405	9:24	60	15:16	439	21:52	53	-	-	03:27	455	09:31	70	15:38	489	21:59	63	-	-	02:45	373	09:13	70	14:59	407	21:48	64	-	-	
14-7	maa	3:44	393	10:01	60	15:50	434	22:29	49	-	-	04:06	443	10:08	70	16:12	484	22:36	59	-	-	03:30	366	09:52	70	15:41	403	22:27	58	-	-	
15-7	din	4:19	385	10:36	60	16:26	436	23:05	43	-	-	04:41	435	10:43	70	16:48	486	23:12	53	-	-	04:14	358	10:31	60	16:23	400	23:04	52	-	-	
16-7	woe	20:32 NM	4:55	383	11:13	50	17:05	441	23:42	38	-	-	05:17	433	11:20	60	17:27	491	23:49	48	-	-	04:55	354	11:09	60	17:04	401	23:42	48	-	-
17-7	don	5:34	384	11:51	50	17:49	442	-	-	-	-	05:56	434	11:58	60	18:11	492	-	-	-	-	05:36	351	11:50	50	17:45	401	-	-	-	-	
18-7	vry	-	-	0:24	30	6:18	382	12:35	53	18:37	433	-	-	00:31	40	06:40	432	12:42	63	18:59	483	-	-	00:23	40	06:16	349	12:34	56	18:26	396	
19-7	zat	-	-	1:11	40	7:09	374	13:25	66	19:34	413	-	-	01:18	50	07:31	424	13:32	76	19:56	463	-	-	01:08	50	06:56	346	13:21	66	19:13	385	
20-7	zon	-	-	2:08	60	8:11	362	14:28	83	20:43	391	-	-	02:15	70	08:33	412	14:35	93	21:05	441	-	-	02:00	70	07:43	341	14:16	79	20:08	369	
21-7	maa	-	-	3:17	70	9:26	357	15:47	89	22:02	378	-	-	03:24	80	09:48	407	15:54	99	22:24	428	-	-	03:03	80	08:40	337	15:35	87	21:12	354	
22-7	din	-	-	4:31	80	10:40	363	17:05	77	23:18	380	-	-	04:38	90	11:02	413	17:12	87	23:40	430	-	-	04:25	80	09:51	337	17:06	78	22:30	346	
23-7	woe	-	-	5:41	70	11:48	380	18:18	56	-	-	-	-	05:48	80	12:10	430	18:25	66	-	-	-	-	05:42	70	11:29	347	18:22	62	-	-	
24-7	don	0:28	392	6:50	50	12:51	401	19:27	39	-	-	00:50	442	06:57	60	13:13	451	19:34	49	-	-	00:20	353	06:52	60	12:47	366	19:32	48	-	-	
25-7	vry	00:07 EK	1:32	406	7:54	40	13:49	419	20:27	34	-	-	01:54	456	08:01	50	14:11	469	20:34	44	-	-	01:24	368	07:52	60	13:42	384	20:28	44	-	-
26-7	zat	2:28	412	8:49	50	14:41	427	21:18	43	-	-	02:50	462	08:56	60	15:03	477	21:25	53	-	-	02:15	377	08:42	60	14:30	395	21:16	52	-	-	
27-7	zon	3:18	408	9:35	60	15:27	426	22:00	61	-	-	03:40	458	09:42	70	15:49	476	22:07	71	-	-	03:01	378	09:25	70	15:12	397	21:57	68	-	-	
28-7	maa	4:00	395	10:12	80	16:04	420	22:35	76	-	-	04:22	445	10:19	90	16:26	470	22:42	86	-	-	03:41	372	10:02	80	15:50	394	22:33	83	-	-	
29-7	din	4:32	384	10:43	90	16:34	416	23:06	80	-	-	04:54	434	10:50	100	16:56	466	23:13	90	-	-	04:16	364	10:35	90	16:20	390	23:04	90	-	-	
30-7	woe	5:00	381	11:13	80	17:03	415	23:36	72	-	-	05:22	431	11:20	90	17:25	465	23:43	82	-	-	04:46	358	11:05	90	16:43	386	23:34	88	-	-	
31-7	don	20:32 VM	5:31	384	11:45	70	17:38	413	-	-	-	05:53	434	11:52	80	18:00	463	-	-	-	-	05:13	356	11:34	90	17:02	382	-	-	-	-	
1-8	vry	-	-	0:09	60	6:09	385	12:22	75	18:20	402	-	-	00:16	70	06:31	435	12:29	85	18:42	452	-	-	00:04	80	05:38	352	12:08	86	17:39	371	
2-8	zat	-	-	0:47	70	6:54	379	13:05	83	19:10	383	-	-	00:54	80	07:16	429	13:12	93	19:32	433	-	-	00:40	80	06:20	345	12:50	89	18:37	353	
3-8	zon	-	-	1:32	90	7:45	368	13:57	103	20:07	364	-	-	01:39	100	08:07	418	14:04	113	20:29	414	-	-	01:25	90	07:29	336	13:45	101	19:58	337	
4-8	maa	-	-	2:29	110	8:43	361	15:04	124	21:12	355	-	-	02:36	120	09:05	411	15:11	134	21:34	405	-	-	02:23	110	08:45	335	14:53	115	21:13	333	

Referentievlak :LAT lw

		10 eigen berekening										Cuxhaven *																					
datum	dag	HW	lw	HW	lw	HW	HW	lw	HW	lw	HW	HW	lw	HW	lw	HW																	
5-8	din	-	-	3:40	130	9:50	368	16:26	130	22:22	360	-	-	03:47	140	10:12	418	16:33	140	22:44	410	-	-	03:30	120	09:51	347	16:10	122	22:16	341		
6-8	woe	-	-	4:56	130	11:01	389	17:40	117	23:33	378	-	-	05:03	140	11:23	439	17:47	127	23:55	428	-	-	04:40	120	10:52	367	17:24	117	23:14	355		
7-8	don	12:28	LK	-	-	6:02	110	12:04	418	18:40	95	-	-	06:09	120	12:26	468	18:47	105	-	-	-	-	05:49	110	11:48	390	18:30	104	-	-		
8-8	vry			0:32	399	6:57	90	12:55	440	19:31	73	-	-	00:54	449	07:04	100	13:17	490	19:38	83	-	-	00:10	368	06:48	100	12:39	406	19:24	88	-	-
9-8	zat			1:22	411	7:45	70	13:41	450	20:16	57	-	-	01:44	461	07:52	80	14:03	500	20:23	67	-	-	01:02	376	07:37	90	13:25	412	20:11	72	-	-
10-8	zon			2:08	412	8:28	60	14:22	449	20:57	46	-	-	02:30	462	08:35	70	14:44	499	21:04	56	-	-	01:48	376	08:21	70	14:04	411	20:55	60	-	-
11-8	maa			2:50	406	9:08	50	14:58	445	21:35	39	-	-	03:12	456	09:15	60	15:20	495	21:42	49	-	-	02:29	371	09:02	60	14:41	408	21:34	51	-	-
12-8	din			3:27	398	9:45	50	15:32	446	22:11	32	-	-	03:49	448	09:52	60	15:54	496	22:18	42	-	-	03:08	366	09:39	50	15:20	408	22:11	45	-	-
13-8	woe			4:01	396	10:20	40	16:07	453	22:47	27	-	-	04:23	446	10:27	50	16:29	503	22:54	37	-	-	03:49	364	10:16	50	16:01	412	22:46	42	-	-
14-8	don			4:35	399	10:56	30	16:47	457	23:24	28	-	-	04:57	449	11:03	40	17:09	507	23:31	38	-	-	04:30	364	10:52	40	16:42	413	23:21	44	-	-
15-8	vry	11:38	NM	5:13	400	11:33	30	17:30	450	-	-	-	-	05:35	450	11:40	40	17:52	500	-	-	-	-	05:10	363	11:30	40	17:23	407	23:58	52	-	-
16-8	zat			-	-	0:02	40	5:55	394	12:14	48	18:17	429	-	-	00:09	50	06:17	444	12:21	58	18:39	479	05:47	358	12:10	50	18:03	392	-	-	-	-
17-8	zon			-	-	0:44	60	6:42	379	13:01	71	19:14	397	-	-	00:51	70	07:04	429	13:08	81	19:36	447	-	-	00:37	60	06:24	349	12:54	68	18:49	370
18-8	maa			-	-	1:36	80	7:44	362	14:03	95	20:32	370	-	-	01:43	90	08:06	412	14:10	105	20:54	420	-	-	01:23	80	07:12	338	13:48	87	19:49	346
19-8	din			-	-	2:49	110	9:09	354	15:32	105	21:58	363	-	-	02:56	120	09:31	404	15:39	115	22:20	413	-	-	02:24	100	08:21	330	15:27	97	21:11	332
20-8	woe			-	-	4:19	110	10:31	367	17:01	90	23:16	379	-	-	04:26	120	10:53	417	17:08	100	23:38	429	-	-	04:18	100	10:15	336	17:07	83	23:16	341
21-8	don			-	-	5:38	90	11:43	396	18:19	66	-	-	-	-	05:45	100	12:05	446	18:26	76	-	-	-	-	05:43	80	11:47	363	18:27	64	-	-
22-8	vry			0:26	403	6:49	60	12:46	426	19:25	48	-	-	00:48	453	06:56	70	13:08	476	19:32	58	-	-	00:25	365	06:50	60	12:45	391	19:29	52	-	-
23-8	zat	11:57	EK	1:26	420	7:48	50	13:41	444	20:19	46	-	-	01:48	470	07:55	60	14:03	494	20:26	56	-	-	01:17	384	07:44	60	13:32	410	20:18	55	-	-
24-8	zon			2:17	422	8:36	50	14:27	445	21:03	59	-	-	02:39	472	08:43	60	14:49	495	21:10	69	-	-	02:00	390	08:28	60	14:13	414	20:59	68	-	-
25-8	maa			3:00	410	9:15	70	15:04	435	21:38	74	-	-	03:22	460	09:22	80	15:26	485	21:45	84	-	-	02:37	385	09:05	80	14:48	409	21:32	81	-	-
26-8	din			3:31	396	9:46	80	15:32	424	22:06	79	-	-	03:53	446	09:53	90	15:54	474	22:13	89	-	-	03:08	377	09:36	80	15:17	401	22:00	86	-	-
27-8	woe			3:53	392	10:12	80	15:56	420	22:31	70	-	-	04:15	442	10:19	90	16:18	470	22:38	80	-	-	03:36	373	10:03	80	15:41	395	22:26	80	-	-
28-8	don			4:18	398	10:39	70	16:24	421	22:58	59	-	-	04:40	448	10:46	80	16:46	471	23:05	69	-	-	04:02	373	10:31	70	16:03	392	22:53	73	-	-
29-8	vry			4:48	404	11:09	60	16:58	418	23:27	61	-	-	05:10	454	11:16	70	17:20	468	23:34	71	-	-	04:26	373	11:00	70	16:29	387	23:20	74	-	-
30-8	zat	03:35	VM	5:23	403	11:42	60	17:35	406	-	-	-	-	05:45	453	11:49	70	17:57	456	-	-	-	-	04:50	369	11:31	70	17:03	376	23:49	88	-	-
31-8	zon			-	-	23:58	80	6:00	393	12:16	87	18:16	387	-	-	00:05	90	06:22	443	12:23	97	18:38	437	05:21	361	12:05	90	17:47	360	-	-	-	-
1-9	maa			-	-	0:33	110	6:41	380	12:56	118	19:05	368	-	-	00:40	120	07:03	430	13:03	128	19:27	418	-	-	00:24	110	06:10	351	12:49	117	18:52	344
2-9	din			-	-	1:18	140	7:34	371	13:50	151	20:07	357	-	-	01:25	150	07:56	421	13:57	161	20:29	407	-	-	01:14	130	07:29	346	13:50	141	20:13	339
3-9	woe			-	-	2:21	170	8:44	373	15:14	169	21:23	360	-	-	02:28	180	09:06	423	15:21	179	21:45	410	-	-	02:18	150	08:53	356	15:09	151	21:27	347
4-9	don			-	-	3:55	170	10:11	393	17:00	150	22:51	377	-	-	04:02	180	10:33	443	17:07	160	23:13	427	-	-	03:32	150	10:06	378	16:35	139	22:35	362
5-9	vry			-	-	5:25	140	11:29	423	18:10	110	-	-	-	-	05:32	150	11:51	473	18:17	120	-	-	-	-	04:55	130	11:12	400	17:55	111	23:39	376
6-9	zat	00:21	LK	0:03	400	6:27	100	12:26	445	19:04	76	-	-	00:25	450	06:34	110	12:48	495	19:11	86	-	-	-	-	06:15	110	12:10	414	18:55	84	-	-
7-9	zon			0:57	413	7:18	80	13:13	451	19:49	56	-	-	01:19	463	07:25	90	13:35	501	19:56	66	-	-	00:36	382	07:11	80	12:58	416	19:45	64	-	-
8-9	maa			1:43	412	8:02	60	13:53	449	20:30	46	-	-	02:05	462	08:09	70	14:15	499	20:37	56	-	-	01:21	379	07:57	70	13:36	413	20:29	54	-	-
9-9	din			2:22	405	8:40	50	14:29	449	21:07	40	-	-	02:44	455	08:47	60	14:51	499	21:14	50	-	-	01:58	374	08:38	60	14:11	412	21:09	49	-	-
10-9	woe			2:57	401	9:17	40	15:04	454	21:44	33	-	-	03:19	451	09:24	50	15:26	504	21:51	43	-	-	02:34	372	09:17	50	14:50	417	21:46	46	-	-
11-9	don			3:30	405	9:54	30	15:42	461	22:20	28	-	-	03:52	455	10:01	40	16:04	511	22:27	38	-	-	03:15	375	09:54	40	15:33	421	22:21	45	-	-
12-9	vry			4:06	413	10:32	30	16:24	459	22:57	33	-	-	04:28	463	10:39	40	16:46	509	23:04	43	-	-	03:59	378	10:31	40	16:18	418	22:55	50	-	-
13-9	zat			4:46	414	11:12	30	17:09	442	23:35	52	-	-	05:08	464	11:19	40	17:31	492	23:42	62	-	-	04:43	377	11:08	40	17:02	404	23:30	61	-	-
14-9	zon	03:40	NM	5:29	405	11:53	50	17:59	410	-	-	-	-	05:51	455	12:00	60	18:21	460	-	-	-	-	05:23	369	11:47	50	17:45	379	-	-	-	-
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16-9	din			-	-	1:06	110	7:24	363	13:45	115	20:25	351	-	-	01:13	120	07:46	413	13:52	125	20:47	401	-	-	00:49	100	06:54	340	13:28	101	19:45	327
17-9	woe			-	-	2:27	140	8:56	358	15:26	127	21:51	356	-	-	02:34	150	09:18	408	15:33	137	22:13	406	-	-	01:52	120	08:24	333	15:38	110	21:43	326

Referentievlak :LAT lw

Referentievlak :LAT lw		10 eigen berekening								Cuxhaven *																						
datum	dag	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW																
18-9	don	-	-	4:13	130	10:22	381	16:59	108	23:11	383	-	-	04:20	140	10:44	431	17:06	118	23:33	433	-	-	04:17	120	10:28	352	17:06	91	23:15	351	
19-9	vry	-	-	5:33	100	11:35	418	18:13	80	-	-	-	-	05:40	110	11:57	468	18:20	90	-	-	-	-	05:34	90	11:39	388	18:17	71	-	-	
20-9	zat	0:20	413	6:39	80	12:37	449	19:12	60	-	-	00:42	463	06:46	90	12:59	499	19:19	70	-	-	00:14	379	06:35	70	12:31	417	19:12	61	-	-	
21-9	zon	21:32 EK	1:16	429	7:32	60	13:28	460	20:00	58	-	-	01:38	479	07:39	70	13:50	510	20:07	68	-	-	01:00	394	07:25	70	13:13	427	19:57	65	-	-
22-9	maa	2:02	424	8:15	70	14:08	448	20:39	69	-	-	02:24	474	08:22	80	14:30	498	20:46	79	-	-	01:38	394	08:06	70	13:48	420	20:33	76	-	-	
23-9	din	2:35	409	8:49	80	14:36	430	21:08	78	-	-	02:57	459	08:56	90	14:58	480	21:15	88	-	-	02:07	386	08:39	80	14:16	407	21:00	83	-	-	
24-9	woe	2:55	399	9:16	80	14:57	420	21:32	74	-	-	03:17	449	09:23	90	15:19	470	21:39	84	-	-	02:30	381	09:04	80	14:39	398	21:23	79	-	-	
25-9	don	3:13	404	9:40	70	15:22	421	21:55	63	-	-	03:35	454	09:47	80	15:44	471	22:02	73	-	-	02:55	383	09:30	70	15:04	395	21:49	70	-	-	
26-9	vry	3:42	416	10:08	50	15:54	424	22:23	60	-	-	04:04	466	10:15	60	16:16	474	22:30	70	-	-	03:23	386	10:00	60	15:33	393	22:17	71	-	-	
27-9	zat	4:16	421	10:39	60	16:29	418	22:52	76	-	-	04:38	471	10:46	70	16:51	468	22:59	86	-	-	03:53	385	10:32	70	16:05	386	22:46	86	-	-	
28-9	zon	11:57 VM	4:50	414	11:10	80	17:04	404	23:21	106	-	-	05:12	464	11:17	90	17:26	454	23:28	116	-	-	04:20	380	11:03	90	16:36	375	23:14	112	-	-
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30-9	din	5:58	393	12:17	130	18:22	371	-	-	-	-	06:20	443	12:24	140	18:44	421	-	-	-	-	05:17	368	12:14	140	17:56	351	-	-	-	-	
1-10	woe	-	-	0:31	160	6:46	388	13:07	162	19:24	361	-	-	00:38	170	07:08	438	13:14	172	19:46	411	-	-	00:30	160	06:35	365	13:15	157	19:32	345	
2-10	don	-	-	1:30	180	7:56	389	14:22	172	20:43	363	-	-	01:37	190	08:18	439	14:29	182	21:05	413	-	-	01:37	170	08:03	371	14:32	155	20:49	353	
3-10	vry	-	-	2:57	180	9:22	402	16:09	151	22:13	380	-	-	03:04	190	09:44	452	16:16	161	22:35	430	-	-	02:51	160	09:19	388	15:52	132	22:00	368	
4-10	zat	-	-	4:38	140	10:47	425	17:29	106	23:29	403	-	-	04:45	150	11:09	475	17:36	116	23:51	453	-	-	04:11	130	10:30	404	17:11	100	23:06	381	
5-10	zon	15:48 LK	-	-	5:49	100	11:49	443	18:26	72	-	-	-	-	05:56	110	12:11	493	18:33	82	-	-	-	-	05:34	100	11:33	414	18:18	74	-	-
6-10	maa	0:25	415	6:43	80	12:38	450	19:13	54	-	-	00:47	465	06:50	90	13:00	500	19:20	64	-	-	00:04	385	06:37	80	12:24	416	19:12	59	-	-	
7-10	din	1:10	413	7:28	60	13:20	450	19:56	48	-	-	01:32	463	07:35	70	13:42	500	20:03	58	-	-	00:50	383	07:27	60	13:04	414	19:58	54	-	-	
8-10	woe	1:48	409	8:09	60	13:58	452	20:35	42	-	-	02:10	459	08:16	70	14:20	502	20:42	52	-	-	01:27	379	08:11	60	13:41	415	20:40	53	-	-	
9-10	don	2:23	411	8:48	40	14:37	457	21:13	35	-	-	02:45	461	08:55	50	14:59	507	21:20	45	-	-	02:04	382	08:52	50	14:22	419	21:18	52	-	-	
10-10	vry	2:59	420	9:28	30	15:19	458	21:52	32	-	-	03:21	470	09:35	40	15:41	508	21:59	42	-	-	02:47	388	09:31	40	15:09	419	21:54	52	-	-	
11-10	zat	3:40	428	10:10	20	16:06	447	22:32	41	-	-	04:02	478	10:17	30	16:28	497	22:39	51	-	-	03:34	393	10:10	40	15:58	410	22:29	58	-	-	
12-10	zon	4:24	427	10:52	30	16:55	422	23:11	65	-	-	04:46	477	10:59	40	17:17	472	23:18	75	-	-	04:21	391	10:49	40	16:47	389	23:03	72	-	-	
13-10	maa	19:55 NM	5:09	414	11:37	60	17:48	389	-	-	-	-	05:31	464	11:44	70	18:10	439	-	-	-	-	05:05	380	11:29	60	17:36	362	23:39	94	-	-
14-10	din	-	-	23:53	100	6:01	392	12:26	95	18:54	359	-	-	00:00	110	06:23	442	12:33	105	19:16	409	05:48	364	12:15	90	18:32	336	-	-	-	-	
15-10	woe	-	-	0:45	130	7:10	373	13:34	129	20:13	346	-	-	00:52	140	07:32	423	13:41	139	20:35	396	-	-	00:22	120	06:44	351	13:32	117	19:56	323	
16-10	don	-	-	2:09	160	8:39	374	15:14	139	21:34	358	-	-	02:16	170	09:01	424	15:21	149	21:56	408	-	-	01:32	140	08:29	350	15:30	115	21:36	333	
17-10	vry	-	-	3:52	150	10:02	399	16:39	119	22:53	386	-	-	03:59	160	10:24	449	16:46	129	23:15	436	-	-	03:57	130	10:10	375	16:42	97	22:54	360	
18-10	zat	-	-	5:08	120	11:13	433	17:47	90	-	-	-	-	05:15	130	11:35	483	17:54	100	-	-	-	-	05:06	100	11:15	407	17:47	78	23:50	384	
19-10	zon	23:15	415	6:11	90	12:13	453	18:43	70	-	-	00:21	465	06:18	100	12:35	503	18:50	80	-	-	-	-	06:06	80	12:04	424	18:41	67	-	-	
20-10	maa	0:52	426	7:03	80	13:01	451	19:27	66	-	-	01:14	476	07:10	90	13:23	501	19:34	76	-	-	00:34	394	06:56	70	12:45	421	19:24	68	-	-	
21-10	din	05:29 EK	1:31	418	7:44	70	13:37	431	20:03	72	-	-	01:53	468	07:51	80	13:59	481	20:10	82	-	-	01:07	390	07:37	70	13:17	406	19:57	75	-	-
22-10	woe	1:57	406	8:16	70	14:02	415	20:31	74	-	-	02:19	456	08:23	80	14:24	465	20:38	84	-	-	01:31	384	08:08	70	13:42	391	20:23	78	-	-	
23-10	don	2:14	407	8:42	70	14:25	413	20:55	67	-	-	02:36	457	08:49	80	14:47	463	21:02	77	-	-	01:54	384	08:33	70	14:07	386	20:47	73	-	-	
24-10	vry	2:39	420	9:10	50	14:56	421	21:24	61	-	-	03:01	470	09:17	60	15:18	471	21:31	71	-	-	02:22	390	09:02	60	14:37	388	21:17	71	-	-	
25-10	zat	3:14	433	9:42	50	15:33	426	21:56	70	-	-	03:36	483	09:49	60	15:55	476	22:03	80	-	-	02:55	396	09:36	60	15:13	389	21:50	82	-	-	
26-10	zon	2:52	435	9:16	71	15:11	418	21:27	96	-	-	03:14	485	09:23	81	15:33	468	21:34	106	-	-	02:32	396	09:11	83	14:51	383	21:22	106	-	-	
27-10	maa	22:24 VM	3:28	425	9:48	99	15:46	401	21:56	128	-	-	03:50	475	09:55	109	16:08	451	22:03	138	-	-	03:07	391	09:45	109	15:27	372	21:52	134	-	-
28-10	din	3:59	414	10:20	126	16:19	383	22:26	150	-	-	04:21	464	10:27	136	16:41	433	22:33	160	-	-	03:35	384	10:20	133	15:58	359	22:24	155	-	-	
29-10	woe	4:33	408	10:56	141																											

Referentievlak :LAT lw

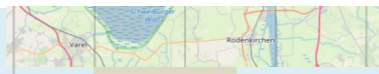
10
eigen berekening

Cuxhaven *

datum	dag	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw																
1-11	zat	-	-	1:21	158	7:40	412	14:21	119	20:35	384	-	-	01:28	168	08:02	462	14:28	129	20:57	434	-	-	01:24	144	07:39	391	14:18	106	20:29	367		
2-11	zon	-	-	2:49	134	9:00	425	15:40	87	21:48	402	-	-	02:56	144	09:22	475	15:47	97	22:10	452	-	-	02:38	120	08:49	401	15:32	82	21:33	378		
3-11	maa	-	-	4:03	103	10:06	438	16:41	61	22:47	413	-	-	04:10	113	10:28	488	16:48	71	23:09	463	-	-	03:54	96	09:53	407	16:39	64	22:30	383		
4-11	din	09:17	LK	5:02	80	11:00	445	17:33	49	23:34	415	-	-	05:09	90	11:22	495	17:40	59	23:56	465	-	-	05:01	78	10:47	409	17:36	56	23:18	383		
5-11	woe	-	-	5:52	66	11:46	447	18:19	43	-	-	-	-	05:59	76	12:08	497	18:26	53	-	-	-	-	05:56	67	11:32	409	18:25	55	23:59	385		
6-11	don	0:14	417	6:37	52	12:30	448	19:03	38	-	-	00:36	467	06:44	62	12:52	498	19:10	48	-	-	-	-	06:43	59	12:14	410	19:09	55	-	-		
7-11	vry	0:53	424	7:21	36	13:15	448	19:45	33	-	-	01:15	474	07:28	46	13:37	498	19:52	43	-	-	00:39	391	07:27	50	13:01	409	19:50	54	-	-		
8-11	zat	1:35	433	8:06	23	14:04	442	20:29	35	-	-	01:57	483	08:13	33	14:26	492	20:36	45	-	-	01:26	398	08:10	40	13:53	404	20:29	55	-	-		
9-11	zon	2:20	437	8:53	21	14:56	426	21:12	50	-	-	02:42	487	09:00	31	15:18	476	21:19	60	-	-	02:16	401	08:53	38	14:47	392	21:07	64	-	-		
10-11	maa	3:08	431	9:39	37	15:48	403	21:56	77	-	-	03:30	481	09:46	47	16:10	453	22:03	87	-	-	03:06	397	09:37	49	15:41	374	21:45	83	-	-		
11-11	din	3:57	417	10:27	66	16:42	377	22:40	110	-	-	04:19	467	10:34	76	17:04	427	22:47	120	-	-	03:54	387	10:23	72	16:34	353	22:24	106	-	-		
12-11	woe	10:27	NM	4:49	401	11:18	99	17:41	358	23:32	139	-	-	05:11	451	11:25	109	18:03	408	23:39	149	-	-	04:41	376	11:20	99	17:31	337	23:08	128	-	-
13-11	don	5:52	391	12:22	125	18:46	351	-	-	-	-	06:14	441	12:29	135	19:08	401	-	-	-	-	05:36	369	12:46	116	18:42	331	-	-	-	-		
14-11	vry	-	-	0:42	156	7:06	393	13:39	131	19:57	359	-	-	00:49	166	07:28	443	13:46	141	20:19	409	-	-	00:47	144	07:02	371	13:58	112	19:59	340		
15-11	zat	-	-	2:05	152	8:20	407	14:52	117	21:08	377	-	-	02:12	162	08:42	457	14:59	127	21:30	427	-	-	02:17	134	08:27	385	14:59	98	21:09	358		
16-11	zon	-	-	3:18	131	9:28	421	15:57	95	22:14	395	-	-	03:25	141	09:50	471	16:04	105	22:36	445	-	-	03:21	113	09:31	398	15:57	82	22:06	373		
17-11	maa	-	-	4:23	107	10:30	423	16:54	78	23:07	402	-	-	04:30	117	10:52	473	17:01	88	23:29	452	-	-	04:22	93	10:23	400	16:53	71	22:51	378		
18-11	din	11:50	EK	5:19	88	11:21	413	17:42	73	-	-	-	-	05:26	98	11:43	463	17:49	83	-	-	-	-	05:17	79	11:06	389	17:40	69	23:26	376		
19-11	woe	23:29	399	6:04	77	11:59	398	18:20	75	-	-	00:07	449	06:11	87	12:21	448	18:27	85	-	-	-	-	06:02	72	11:41	376	18:17	73	23:55	376		
20-11	don	0:11	399	6:39	70	12:27	393	18:52	74	-	-	00:33	449	06:46	80	12:49	443	18:59	84	-	-	-	-	06:36	70	12:11	369	18:47	76	-	-		
21-11	vry	0:37	410	7:11	63	12:57	402	19:23	70	-	-	00:59	460	07:18	73	13:19	452	19:30	80	-	-	00:23	383	07:06	69	12:40	373	19:16	76	-	-		
22-11	zat	1:10	428	7:44	57	13:33	416	19:57	70	-	-	01:32	478	07:51	67	13:55	466	20:04	80	-	-	00:56	395	07:38	69	13:14	382	19:50	80	-	-		
23-11	zon	1:50	440	8:21	62	14:13	421	20:33	82	-	-	02:12	490	08:28	72	14:35	471	20:40	92	-	-	01:33	406	08:15	76	13:55	387	20:26	93	-	-		
24-11	maa	2:30	441	8:58	80	14:52	412	21:07	106	-	-	02:52	491	09:05	90	15:14	462	21:14	116	-	-	02:13	408	08:54	92	14:38	381	21:01	114	-	-		
25-11	din	3:05	432	9:32	102	15:27	394	21:38	128	-	-	03:27	482	09:39	112	15:49	444	21:45	138	-	-	02:52	403	09:32	109	15:21	369	21:35	133	-	-		
26-11	woe	10:16	VM	3:36	423	10:05	115	16:00	378	22:09	137	-	-	03:58	473	10:12	125	16:22	428	22:16	147	-	-	03:28	395	10:09	120	16:03	355	22:11	142	-	-
27-11	don	4:09	419	10:42	114	16:39	370	22:48	134	-	-	04:31	469	10:49	124	17:01	420	22:55	144	-	-	04:02	389	10:51	120	16:50	346	22:57	139	-	-		
28-11	vry	4:53	419	11:28	105	17:31	368	23:41	127	-	-	05:15	469	11:35	115	17:53	418	23:48	137	-	-	04:50	386	11:41	109	17:45	344	23:53	128	-	-		
29-11	zat	5:50	417	12:27	96	18:35	371	-	-	-	-	06:12	467	12:34	106	18:57	421	-	-	-	-	05:52	385	12:39	95	18:44	349	-	-	-	-		
30-11	zon	-	-	0:46	121	6:57	415	13:37	87	19:48	376	-	-	00:53	131	07:19	465	13:44	97	20:10	426	-	-	00:55	114	06:56	387	13:42	83	19:45	355		
1-12	maa	-	-	2:01	113	8:10	416	14:51	75	21:00	384	-	-	02:08	123	08:32	466	14:58	85	21:22	434	-	-	02:00	102	07:58	389	14:50	74	20:45	362		
2-12	din	-	-	3:15	100	9:19	418	15:56	63	22:03	393	-	-	03:22	110	09:41	468	16:03	73	22:25	443	-	-	03:12	93	08:59	390	15:58	68	21:42	366		
3-12	woe	-	-	4:20	84	10:19	420	16:53	54	22:56	399	-	-	04:27	94	10:41	470	17:00	64	23:18	449	-	-	04:23	82	09:55	390	16:59	65	22:35	370		
4-12	don	06:49	LK	5:17	67	11:15	421	17:46	48	-	-	-	-	05:24	77	11:37	471	17:53	58	-	-	-	-	05:24	70	10:51	388	17:53	63	23:25	376		
5-12	vry	23:18	407	6:10	49	12:09	421	18:36	44	-	-	00:05	457	06:17	59	12:31	471	18:43	54	-	-	-	-	06:18	58	11:48	386	18:42	60	-	-		
6-12	zat	0:30	416	7:03	33	13:04	419	19:27	44	-	-	00:52	466	07:10	43	13:26	469	19:34	54	-	-	00:17	383	07:08	45	12:48	383	19:29	59	-	-		
7-12	zon	1:20	423	7:55	25	14:01	412	20:17	50	-	-	01:42	473	08:02	35	14:23	462	20:24	60	-	-	01:11	389	07:59	38	13:48	379	20:15	62	-	-		
8-12	maa	2:12	424	8:46	30	14:56	401	21:06	66	-	-	02:34	474	08:53	40	15:18	451	21:13	76	-	-	02:05	392	08:50	41	14:44	372	21:01	72	-	-		
9-12	din	3:03	418	9:36	49	15:48	384	21:52	89	-	-	03:25	468	09:43	59	16:10	434	21:59	99	-	-	02:57	390	09:41	55	15:37	361	21:46	90	-	-		
10-12	woe	3:52	410	10:24	76	16:35	367	22:35	111	-	-	04:14	460	10:31	86	16:57	417	22:42	121	-	-	03:45	385	10:32	78	16:26	348	22:28	110	-	-		
11-12	don	4:38	403	11:11	98	17:21	356	23:20	127	-	-	05:00	453	11:18	108	17:43	406	23:27	137	-	-	04:29	380	11:24	98	17:14	338	23:12	125	-	-		
12-12	vry	00:32	NM	5:28	399	12:00	111	18:11	353	-	-	05:50	449	12:07	121	18:33	403	-	-	-	-	05:11	376	12:18	108	18:06	333	-	-	-	-		
13-12	zat	-	-	0:12	133	6:25	397	12:57	112	19:09	355	-	-	00:19	143	06:47	447	13:04	122	19:31	405	-	-	00:11	131	06:08	371	13:13	106	19:08	334		
14-12	zon	-	-	1:14	132	7:29	393	13:59	104	20:11	359	-	-	01:21	142	07:51	443	14:06	114	20:33	409	-	-	01:24	125	07:27	367	14:09	95	20:12	339		

Referentievlak :LAT lw

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eigen berekening



datum	dag	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW	lw	HW																		
15-12	maa	-	-	2:23	122	8:35	385	15:02	95	21:16	365	-	-	02:30	132	08:57	435	15:09	105	21:38	415	-	-	02:30	110	08:35	362	15:04	83	21:10	345			
16-12	din	-	-	3:32	107	9:41	376	16:03	88	22:14	370	-	-	03:39	117	10:03	426	16:10	98	22:36	420	-	-	03:33	93	09:34	355	16:01	77	22:02	350			
17-12	woe	-	-	4:34	91	10:41	369	16:58	86	23:01	376	-	-	04:41	101	11:03	419	17:05	96	23:23	426	-	-	04:33	79	10:26	348	16:55	76	22:46	355			
18-12	don	09:39 EK	-	-	5:27	79	11:28	366	17:45	86	-	-	-	-	05:34	89	11:50	416	17:52	96	-	-	-	-	05:26	72	11:10	344	17:42	80	23:26	364		
19-12	vry	-	-	23:23	387	6:11	73	12:05	374	18:25	84	-	-	00:02	437	06:18	83	12:27	424	18:32	94	-	-	-	-	06:09	72	11:48	349	18:22	84	-	-	
20-12	zat	-	-	0:15	404	6:50	70	12:41	389	19:03	82	-	-	00:37	454	06:57	80	13:03	439	19:10	92	-	-	00:03	378	06:47	75	12:23	360	18:57	87	-	-	
21-12	zon	-	-	0:54	423	7:29	69	13:19	402	19:42	82	-	-	01:16	473	07:36	79	13:41	452	19:49	92	-	-	00:39	393	07:25	79	13:00	371	19:34	91	-	-	
22-12	maa	-	-	1:34	434	8:08	72	13:59	405	20:19	89	-	-	01:56	484	08:15	82	14:21	455	20:26	99	-	-	01:17	404	08:04	83	13:42	375	20:11	98	-	-	
23-12	din	-	-	2:12	434	8:47	80	14:38	395	20:55	101	-	-	02:34	484	08:54	90	15:00	445	21:02	111	-	-	01:57	405	08:44	88	14:26	370	20:48	106	-	-	
24-12	woe	-	-	2:46	426	9:22	86	15:12	380	21:28	109	-	-	03:08	476	09:29	96	15:34	430	21:35	119	-	-	02:36	399	09:22	91	15:09	359	21:24	110	-	-	
25-12	don	-	-	3:17	419	9:56	86	15:44	370	22:00	106	-	-	03:39	469	10:03	96	16:06	420	22:07	116	-	-	03:14	391	09:58	89	15:51	347	22:02	107	-	-	
26-12	vry	-	-	3:51	418	10:31	77	16:20	368	22:37	95	-	-	04:13	468	10:38	87	16:42	418	22:44	105	-	-	03:52	384	10:36	81	16:31	341	22:43	97	-	-	
27-12	zat	01:33 VM	-	-	4:32	420	11:11	67	17:03	369	23:21	86	-	-	04:54	470	11:18	77	17:25	419	23:28	96	-	-	04:32	382	11:19	73	17:13	339	23:29	87	-	-
28-12	zon	-	-	5:21	418	11:59	64	17:54	367	-	-	-	-	05:43	468	12:06	74	18:16	417	-	-	-	-	05:17	381	12:07	68	17:58	340	-	-	-	-	
29-12	maa	-	-	-	-	0:14	86	6:17	410	12:57	69	18:55	362	-	-	00:21	96	06:39	460	13:04	79	19:17	412	-	-	00:21	83	06:09	379	13:01	71	18:47	340	
30-12	din	-	-	-	-	1:16	93	7:22	398	14:04	77	20:06	358	-	-	01:23	103	07:44	448	14:11	87	20:28	408	-	-	01:17	86	07:04	374	14:02	78	19:41	340	
31-12	woe	-	-	-	-	2:29	98	8:34	387	15:15	78	21:19	361	-	-	02:36	108	08:56	437	15:22	88	21:41	411	-	-	02:24	91	08:03	366	15:14	83	20:41	341	