

alpha	delta	α_0	δ_0	I_0	$I_0 - 90$	Forw	b=	sl=	cl=[sin δ cos δN - cos δ sin δN cos($\alpha - \alpha_0$)] / cos b	IF(cl>0): l=- asin(sl)+I0 ELSE: l=asin(sl)- $\pi+I_0$	Reve	$\delta =$ Sin b sin δN + cos δ cos δN cos(I0-l)	sa= Sin(I0 - l) cos b/cos δ	ca=[sin b cos δN - cos b sin δN cos(I0 - l)] / cos δ	IF(ca>0): α =asin(sa)+ α_0 ELSE: α =-asin(sa) + $\pi+\alpha_0$		
0	-90	0	-2	0	-2	1.57	90.00	-1.00000	0.00000	3.72	212.86	0.47	27.13	-0.00001	1.00000	3.37	192.86
192.9	27.13	###	###	###	0	###	-36.85	0.04830	-0.99883	-0.95	305.70	-1.40	-80.00	0.22256	-0.97492	6.28	0.00
0	-80	###	###	###	###	###	-36.64	-0.06378	-0.99796	-1.06	299.28	-1.40	-80.00	-0.29472	-0.95558	6.81	30.00
30	-80	###	###	###	###	###	-33.65	-0.15292	-0.98824	-1.15	294.14	-1.40	-80.00	-0.73302	-0.68020	7.33	60.00
60	-80	###	###	###	###	###	-28.91	-0.19340	-0.98112	-1.19	291.78	-1.40	-80.00	-0.97492	-0.22256	7.85	90.00
90	-80	###	###	###	###	###	-23.80	-0.18136	-0.98342	-1.18	292.48	-1.40	-80.00	-0.95558	0.29472	2.09	120.00
120	-80	###	###	###	###	###	-19.62	-0.12540	-0.99211	-1.12	295.73	-1.40	-80.00	-0.68020	0.73302	2.62	150.00
150	-80	###	###	###	###	###	-17.36	-0.04049	-0.99918	-1.04	300.61	-1.40	-80.00	-0.22256	0.97492	3.14	180.00
180	-80	###	###	###	###	###	-17.54	0.05367	-0.99856	-0.94	306.01	-1.40	-80.00	0.29472	0.95558	3.67	210.00
210	-80	###	###	###	###	###	-20.12	0.13556	-0.99077	-0.86	310.72	-1.40	-80.00	0.73302	0.68020	4.19	240.00
240	-80	###	###	###	###	###	-24.50	0.18604	-0.98254	-0.81	313.65	-1.40	-80.00	0.97492	0.22256	4.71	270.00
270	-80	###	###	###	###	###	-29.64	0.19092	-0.98160	-0.80	313.94	-1.40	-80.00	0.95558	-0.29472	5.24	300.00
300	-80	###	###	###	###	###	-34.22	0.14284	-0.98975	-0.85	311.15	-1.40	-80.00	0.68020	-0.73302	5.76	330.00
330	-80	###	###	###	###	###	-36.85	0.04830	-0.99883	-0.95	305.70	-1.40	-80.00	0.22256	-0.97492	6.28	0.00
360	-80	###	###	###	###	###	-29.64	0.19092	-0.98160	-0.80	313.94	-1.40	-80.00	0.95558	-0.29472	5.24	300.00
300	-80	###	###	###	###	###	-34.22	0.14284	-0.98975	-0.85	311.15	-1.40	-80.00	0.68020	-0.73302	5.76	330.00
330	-80	###	###	###	###	###	-36.85	0.04830	-0.99883	-0.95	305.70	-1.40	-80.00	0.22256	-0.97492	6.28	0.00
360	-80	###	###	###	###	###	-27.13	0.00000	-1.00000	-1.00	302.93	-1.57	-90.00	-1.77997	0.00000	###	#NUM!
0	-70	###	###	###	###	###	-46.49	0.11056	-0.99387	-0.89	309.28	-1.22	-70.00	0.22256	-0.97492	6.28	0.00
0	-50	###	###	###	###	###	-65.10	0.33976	-0.94051	-0.65	322.80	-0.87	-50.00	0.22256	-0.97492	6.28	0.00
0	-30	###	###	###	###	###	-78.35	0.95480	-0.29724	0.27	15.64	-0.52	-30.00	0.22256	-0.97492	6.28	0.00
0	-10	###	###	###	###	###	-69.01	0.61198	0.79087	1.49	85.20	-0.17	-10.00	0.22256	-0.97492	6.28	0.00
0	10	###	###	###	###	###	-50.83	0.34703	0.93785	1.79	102.63	0.17	10.00	0.22256	-0.97492	6.28	0.00
0	30	###	###	###	###	###	-31.56	0.22621	0.97408	1.92	109.86	0.52	30.00	0.22256	-0.97492	6.28	0.00
0	50	###	###	###	###	###	-12.03	0.14627	0.98924	2.00	114.52	0.87	50.00	0.22256	-0.97492	6.28	0.00
0	70	0.13	7.57	0.07679	0.99705	2.07	118.53	1.22	70.00	0.22256	-0.97492	6.28	0.00				
0	90	0.47	27.13	0.00000	1.00000	2.15	122.93	1.57	90.00	0.00000	0.00000	6.51	12.86				

30	-90	###	-27.13	0.00000	-1.00000 -1.00	302.93 -1.57	-90.00	-1.77997	0.00000 ###	#NUM!
30	-70	###	-46.00	-0.14511	-0.98942 -1.14	294.59 -1.22	-70.00	-0.29472	-0.95558 6.81	30.00
30	-50	###	-63.63	-0.42656	-0.90446 -1.44	277.68 -0.87	-50.00	-0.29472	-0.95558 6.81	30.00
30	-30	###	-74.69	-0.96663	-0.25616 -2.31	227.78 -0.52	-30.00	-0.29472	-0.95558 6.81	30.00
30	-10	###	-66.45	-0.72644	0.68723 2.96	169.52 -0.17	-10.00	-0.29472	-0.95558 6.81	30.00
30	10	###	-49.32	-0.44526	0.89540 2.61	149.37 0.17	10.00	-0.29472	-0.95558 6.81	30.00
30	30	###	-30.57	-0.29642	0.95506 2.45	140.18 0.52	30.00	-0.29472	-0.95558 6.81	30.00
30	50	###	-11.38	-0.19324	0.98115 2.34	134.08 0.87	50.00	-0.29472	-0.95558 6.81	30.00
30	70	0.14	7.91	-0.10177	0.99481 2.25	128.77 1.22	70.00	-0.29472	-0.95558 6.81	30.00
30	90	0.47	27.13	0.00000	1.00000 2.15	122.93 1.57	90.00	0.00000	0.00000 6.51	12.86
90	-90	###	-27.13	0.00000	-1.00000 -1.00	302.93 -1.57	-90.00	-1.77997	0.00000 ###	#NUM!
90	-70	###	-29.75	-0.38407	-0.92331 -1.39	280.35 -1.22	-70.00	-0.97492	-0.22256 7.85	90.00
90	-50	###	-28.47	-0.71284	-0.70132 -1.79	257.47 -0.87	-50.00	-0.97492	-0.22256 7.85	90.00
90	-30	###	-23.55	-0.92101	-0.38955 -2.17	235.86 -0.52	-30.00	-0.97492	-0.22256 7.85	90.00
90	-10	###	-15.92	-0.99839	-0.05678 -2.51	216.19 -0.17	-10.00	-0.97492	-0.22256 7.85	90.00
90	10	###	-6.65	-0.96662	0.25621 3.46	198.09 0.17	10.00	-0.97492	-0.22256 7.85	90.00
90	30	0.06	3.24	-0.84565	0.53373 3.15	180.68 0.52	30.00	-0.97492	-0.22256 7.85	90.00
90	50	0.22	12.83	-0.64270	0.76612 2.84	162.93 0.87	50.00	-0.97492	-0.22256 7.85	90.00
90	70	0.37	21.15	-0.35751	0.93391 2.51	143.88 1.22	70.00	-0.97492	-0.22256 7.85	90.00
90	90	0.47	27.13	0.00000	1.00000 2.15	122.93 1.57	90.00	0.00000	0.00000 6.51	12.86
180	-90	###	-27.13	0.00000	-1.00000 -1.00	302.93 -1.57	-90.00	-1.77997	0.00000 ###	#NUM!
180	-70	###	-7.57	-0.07679	-0.99705 -1.07	298.53 -1.22	-70.00	-0.22256	0.97492 3.14	180.00
180	-50	0.21	12.03	-0.14627	-0.98924 -1.14	294.52 -0.87	-50.00	-0.22256	0.97492 3.14	180.00
180	-30	0.55	31.56	-0.22621	-0.97408 -1.22	289.86 -0.52	-30.00	-0.22256	0.97492 3.14	180.00
180	-10	0.89	50.83	-0.34703	-0.93785 -1.35	282.63 -0.17	-10.00	-0.22256	0.97492 3.14	180.00
180	10	1.20	69.01	-0.61198	-0.79087 -1.65	265.20 0.17	10.00	-0.22256	0.97492 3.14	180.00
180	30	1.37	78.35	-0.95480	0.29724 3.41	195.64 0.52	30.00	-0.22256	0.97492 3.14	180.00
180	50	1.14	65.10	-0.33976	0.94051 2.49	142.80 0.87	50.00	-0.22256	0.97492 3.14	180.00
180	70	0.81	46.49	-0.11056	0.99387 2.26	129.28 1.22	70.00	-0.22256	0.97492 3.14	180.00
180	90	0.47	27.13	0.00000	1.00000 2.15	122.93 1.57	90.00	0.00000	0.00000 6.51	12.86