



SUN. H. %	07:30	08:00	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00
AND	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30
NEW FILE	15.28	15.87	16.37	16.81	17.21	17.58	18.01	18.29	18.61	18.95
1% UP				1.597	2.817	2.994	2.91	2.41	2.18	
1% DOWN				0.289	2.014	2.18	2.024	2.042		
2% UP				1.115	4.004	2.802	2.381	2.39		
2% DOWN				2.745	2.444	2.282	2.192	2.199		
3% UP				10.542	2.214	2.18	2.181	2.182		
3% DOWN				28.843	1.847	1.92	2.02	2.028		
4% UP				9.554	4.047	2.78	2.32	2.017		
4% DOWN				40.174	2.086	1.9	2.11	2.120		
5% UP				8.727	1.862	2.02	2.11	2.024		
5% DOWN				34.074	1.745	1.838	2.04	2.044		

43° N

DEC.21

SHADOW LENGTH = HEIGHT x COEF.

HEIGHT = SHADOW LENGTH ÷ COEF.

for slope chart co-efficient enlargement, see next page

slope chart for December 21

Slope in % and direction		0:500 and 19:00 Hours	06:00 and 18:00 Hours	07:00 and 17:00 Hours	08:00 and 16:00 Hours	09:00 and 15:00 Hours	10:00 and 14:00 Hours	11:00 and 13:00 Hours	12:00 Hours
1%	UP				13.395	4.607	2.966	2.403	2.238
	DOWN				18.289	5.014	3.176	2.524	2.342
2%	UP				11.815	4.404	2.900	2.347	2.189
	DOWN				21.745	5.344	3.280	2.590	2.398
3%	UP				10.562	4.218	2.818	2.293	2.142
	DOWN				28.863	5.647	3.392	2.659	2.458
4%	UP				9.552	4.047	2.741	2.242	2.097
	DOWN				40.570	5.986	3.511	2.732	2.520
5%	UP				5.723	3.890	2.669	2.193	2.054
	DOWN				68.075	6.389	3.638	2.808	2.584