

Normalization Factors

From Kaula, 1966*

$$\text{Factor}(l,m) = \sqrt{\frac{(l-m)!(2l+1)(2-Kron.del)}{(l+m)!}}$$

Kron.del = 1 for m = 0, 0 for m ≠ 0

Degree	Order	Factor
0	0	1
1	0	sqrt (3)
1	1	sqrt (3)
2	0	sqrt (5)
2	1	sqrt (5/3)
2	2	(1/2).sqrt (5/3)
3	0	sqrt (7)
3	1	sqrt (7/6)
3	2	(1/2).sqrt (7/15)
3	3	(1/6).sqrt (7/10)
4	0	sqrt (9)
4	1	sqrt (9/10)

* W. M. Kaula, *Theory of Satellite Geodesy*. (Blaisdell, Waltham, 1966), 124 pp.