Nominal State Label	r_{JJ-3}	r_{JJ-2}	r_{JJ-1}	r_{JJ}	r_{JJ+1}	r_{JJ+2}	r_{JJ+3}
$\lvert \tilde{J}=1, F_1=\frac{1}{2}, F=0 \rangle$			0.667	1	0.333		
$\lvert \tilde{J}=1, F_1=\frac{1}{2}, F=1 \rangle$			0.6665	0.9999	0.3335	0.0001	
$\lvert \tilde{J}=1, F_1=\frac{3}{2}, F=1 \rangle$			0.4841	0.8907	0.5159	0.1093	
$\lvert \tilde{J}=2, F_1=\frac{3}{2}, F=1 \rangle$		0.1828	0.7094	0.8173	0.2906		
$\lvert \tilde{J}=1, F_1=\frac{3}{2}, F=2 \rangle$			0.4797	0.8880	0.5203	0.1120	0.00002
$\lvert \tilde{J}=2, F_1=\frac{5}{2}, F=2 \rangle$		0.00007	0.5250	0.9465	0.4750	0.0534	
$\lvert \tilde{J}=2, F_1=\frac{3}{2}, F=2 \rangle$		0.1869	0.7119	0.8131	0.2881	0.00005	
$\lvert \tilde{J}=3, F_1=\frac{5}{2}, F=2 \rangle$		0.0751	0.6249	0.9249	0.3751		
$\lvert \tilde{J}=2, F_1=\frac{5}{2}, F=3 \rangle$			0.5235	0.9456	0.4765	0.0544	
$\lvert \tilde{J}=3, F_1=\frac{7}{2}, F=3 \rangle$		0.00004	0.5308	0.9685	0.4692	0.0315	
$\lvert \tilde{J}=3, F_1=\frac{5}{2}, F=3 \rangle$		0.0764	0.6258	0.9235	0.3742	0.00003	
$\lvert \tilde{J}=4, F_1=\frac{7}{2}, F=3 \rangle$		0.0411	0.5870	0.9589	0.4130		