

The Term Values of the $c'_m(v) \ ^1\Sigma_u^+$ Level of N_2 . Values with B are averaged of all blended lines.

A: The $c'_4(v) \ ^1\Sigma_u^+$ Level.

| J | $v = 0$ | $v = 1$ | $v = 2$ | $v = 3$ | $v = 4$ | $v = 6$ | $v = 7$ | $v = 8$ | $v = 9$ |
|----|----------|----------|-----------|----------|----------|----------|----------|----------|----------|
| 0 | 104322.6 | 106370.4 | 108544.4B | 110656.4 | 112767.9 | 116806.7 | 118776.8 | | 123659.9 |
| 1 | 104326.4 | 106371.7 | 108547.4 | 110659.8 | 112771.1 | 116810.2 | 118770.5 | 122969.6 | 123664.4 |
| 2 | 104334.1 | 106378.6 | 108553.1B | 110666.3 | 112777.9 | 116817.3 | 118775.7 | 122978.0 | 123673.4 |
| 3 | 104345.7 | 106388.8 | 108561.5 | 110675.9 | 112787.8 | 116827.9 | 118791.6 | 122991.4 | 123686.5 |
| 4 | 104361.1 | 106402.5 | 108573.1 | 110688.7 | 112800.9 | 116842.0 | | 123007.7 | 123704.1 |
| 5 | 104380.4 | 106419.5 | 108587.2 | 110704.6 | 112817.3 | 116859.7 | 118816.9 | 123029.4 | 123725.7 |
| 6 | 104403.5 | 106439.8 | 108604.2 | 110723.8 | 112836.8 | 116880.9 | 118837.4 | 123054.6 | 123751.4 |
| 7 | 104430.2 | 106463.3 | 108623.9 | 110746.0 | 112859.4 | 116505.5 | 118861.2 | 123083.4 | 123781.2 |
| 8 | 104460.9 | 106490.1 | 108646.5 | 110771.2 | 112885.0 | 116933.4 | 118888.8 | 123115.4 | 123814.9 |
| 9 | 104495.1 | 106520.1 | 108671.9 | 110799.6 | 112913.6 | 116966.5 | | 123151.2 | 123852.6 |
| 10 | 104532.1 | 106553.4 | 108699.9 | 110830.9 | 112944.5 | 117001.2 | | 123189.5 | 123894.3 |
| 11 | 104579.1 | 106589.4 | 108730.5 | 110865.0 | 112977.6 | 117039.5 | | 123230.9 | 123939.9 |
| 12 | 104623.0 | 106678.2 | 108763.8 | 110901.6 | 113012.3 | 117082.7 | | | |
| 13 | 104672.2 | 106669.9 | 108799.7 | 110941.1 | 113048.3 | 117128.3 | | | |
| 14 | 104725.1 | 106713.6 | 108838.1 | 110982.8 | 113084.9 | 117177.6 | | | |
| 15 | 104782.0 | 106760.1 | 108879.0 | 111026.8 | 113122.1 | 117230.5 | | | |
| 16 | 104842.3 | 106808.3 | 108922.2 | 111072.6 | 113160.0 | | | | |
| 17 | 104906.4 | 106858.4 | 108967.6 | 111120.1 | 113199.1 | | | | |
| 18 | 104973.9 | 106909.7 | 109015.5 | 111169.3 | 113249.2 | | | | |
| 19 | 105045.0 | 106962.4 | 109065.3 | 111219.7 | 113281.2 | | | | |
| 20 | 105119.5 | | | 111271.6 | 113324.8 | | | | |
| 21 | 105197.3 | | | 111324.5 | 113370.0 | | | | |
| 22 | 105278.0 | | | 111378.7 | 113416.9 | | | | |
| 23 | 105361.9 | | | 111434.1 | 113466.0 | | | | |
| 24 | 105448.3 | | | | 113516.8 | | | | |
| 25 | | | | | 113569.7 | | | | |
| 26 | | | | | 113624.4 | | | | |
| 27 | | | | | 113681.1 | | | | |

B: The $c'_m(v) \ ^1\Sigma_u^+$ Level.

| J | $c'_5(0)$ | $c'_5(1)$ | $c'_5(2)$ | $c'_6(0)$ | $c'_7(0)$ | $c'_8(0)$ | $c'_9(0)$ |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 115849.5 | | 120194.7 | 119940.6 | 121866.4 | | |
| 1 | 115852.2 | 118073.6 | 120194.1 | 119944.6 | 121870.6 | 122970.1 | 123664.4 |
| 2 | 115857.6B | 118078.7 | 120198.9 | 119952.6 | 121878.7 | 122978.0 | 123673.4 |
| 3 | 115865.5B | 118086.4 | 120205.8 | 119964.4 | 121891.0 | 122991.4 | 123686.5 |
| 4 | 115876.1B | 118096.6 | 120215.1 | 119980.3 | 121907.4 | 123007.7 | 123704.1 |
| 5 | 115889.7 | 118109.6 | 120226.9 | 120000.3 | 121927.7 | 123029.4 | 123725.7 |
| 6 | 115905.6 | 118125.0 | 120241.0 | 120024.2 | 121952.1 | 123054.6 | 123751.4 |
| 7 | 115924.2 | 118142.9 | 120257.4 | 120051.9 | 121980.6 | 123083.4 | 123781.2 |
| 8 | 115945.4 | 118163.3 | 120276.4 | 120083.7 | 122013.0 | 123115.4 | 123814.9 |
| 9 | 115969.1 | 118186.4 | 120297.6 | 120119.4 | 122049.2 | 123151.2 | 123852.6 |
| 10 | 115995.1 | 118212.2 | 120321.4 | 120159.1 | 122089.4 | 123189.5 | 123894.3 |
| 11 | 116023.8 | 118234.7 | 120348.5 | 120202.7 | 122133.4 | 123230.9 | 123939.9 |
| 12 | 116054.8 | 118268.3B | | 120250.2 | 122181.1 | 123274.6 | 123989.3 |
| 13 | 116088.2 | 118305.0 | | 120301.7 | 122232.5 | | 124042.6 |
| 14 | 116123.8 | 118341.8 | | 120356.9 | 122287.3 | | |
| 15 | 116161.7 | 118380.6 | | 120416.0 | 122345.3 | | |
| 16 | 116202.3 | 118422.3 | | | 122406.0 | | |
| 17 | 116245.0 | 118467.0 | | 120546.6 | | | |
| 18 | | 118514.3 | | | | | |
| 19 | | 118565.7 | | | | | |
| 20 | | | | | | | |
| 21 | | 118680.9 | | | | | |
| 22 | | 118733.5 | | | | | |

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