$Fi_{22}.2$

$O_8^+(2).2 \leq O_8^+(2).3.2 \times 2$	370656	$1a^{\pm} + 429a^{\pm} + 3080a^{\pm} + 13650a^{\pm} + 45045a^{\pm} + 48048a^{\pm} + 75075a^{\pm}$	14

Character Numbers: [1, 2, 5, 6, 13, 14, 17, 18, 25, 26, 27, 28, 33, 34]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}	S_{11}	S_{12}	S_{13}	S_{14}
χ_1	1	1	2	2	1575	1575	3150	3150	22400	22400	44800	44800	113400	113400
χ_2	1	−1	2	−2	−1575	1575	−3150	3150	22400	−22400	44800	−44800	−113400	113400
χ_3	1	1	−1	−1	315	315	−315	−315	2240	2240	−2240	−2240	0	0
χ_4	1	−1	−1	1	−315	315	315	−315	2240	−2240	−2240	2240	0	0
χ_5	1	1	2	2	171	171	342	342	−64	−64	−128	−128	−324	−324
χ_6	1	−1	2	−2	−171	171	−342	342	−64	64	−128	128	324	−324
χ_7	1	1	2	2	−9	−9	−18	−18	224	224	448	448	−648	−648
χ_8	1	−1	2	−2	9	−9	18	−18	224	−224	448	−448	648	−648
χ_9	1	1	2	2	−9	−9	−18	−18	−64	−64	−128	−128	216	216
χ_{10}	1	−1	2	−2	9	−9	18	−18	−64	64	−128	128	−216	216
χ_{11}	1	1	−1	−1	−45	−45	45	45	80	80	−80	−80	0	0
χ_{12}	1	−1	−1	1	45	−45	−45	45	80	−80	−80	80	0	0
χ_{13}	1	1	−1	−1	27	27	−27	−27	−64	−64	64	64	0	0
χ_{14}	1	−1	−1	1	−27	27	27	−27	−64	64	64	−64	0	0

Ramanujan Graphs: [2, 3], [2, 3, 4], [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14], [2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14], [2, 3, 4, 9, 10, 11, 12, 13, 14], [2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [2, 3, 5, 6, 9, 10, 11, 12, 13, 14], [2, 3, 7, 8, 9, 10, 11, 12, 13, 14], [2, 3, 9, 10, 11, 12, 13, 14], [2, 4], [2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [2, 4, 5, 6, 9, 10, 11, 12, 13, 14], [2, 4, 5, 7, 10, 12, 13], [2, 4, 5, 7, 13], [2, 4, 5, 10, 12, 13], [2, 4, 5, 13], [2, 4, 7, 8, 9, 10, 11, 12, 13, 14], [2, 4, 7, 10, 12, 13], [2, 4, 7, 13], [2, 4, 9, 10, 11, 12, 13, 14], [2, 4, 10, 12, 13], [2, 4, 13], [2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [2, 5, 6, 9, 10, 11, 12, 13, 14], [2, 5, 7, 10, 12, 13], [2, 5, 7, 13], [2, 5, 10, 12, 13], [2, 5, 13], [2, 7, 8, 9, 10, 11, 12, 13, 14], [2, 7, 10, 12, 13], [2, 7, 13], [2, 9, 10, 11, 12, 13, 14], [2, 10, 12, 13], [2, 13], [3], [3, 4], [3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [3, 4, 5, 6, 9, 10, 11, 12, 13, 14], [3, 4, 7, 8, 9, 10, 11, 12, 13, 14], [3, 4, 9, 10, 11, 12, 13, 14], [3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [3, 5, 6, 9, 10, 11, 12, 13, 14], [3, 6, 8, 9, 11, 14], [3, 6, 8, 14], [3, 6, 9, 11, 14], [3, 6, 14], [3, 7, 8, 9, 10, 11, 12, 13, 14], [3, 8, 9, 11, 14], [3, 8, 14], [3, 9, 10, 11, 12, 13, 14], [3, 9, 11, 14], [3, 14], [4], [4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [4, 5, 6, 9, 10, 11, 12, 13, 14], [4, 5, 7, 10, 12, 13], [4, 5, 7, 13], [4, 5, 10, 12, 13], [4, 5, 13], [4, 7, 8, 9, 10, 11, 12, 13, 14], [4, 7, 10, 12, 13], [4, 7, 13], [4, 9, 10, 11, 12, 13, 14], [4, 10, 12, 13], [4, 13], [5, 6, 7, 8, 9, 10, 11, 12, 13, 14], [5, 6, 9, 10, 11, 12, 13, 14], [5, 7, 10, 12, 13], [5, 7, 13], [5, 10, 12, 13], [5, 13], [6, 8, 9, 11, 14], [6, 8, 14], [6, 9, 11, 14], [6, 14], [7, 8, 9, 10, 11, 12, 13, 14], [7, 10, 12, 13], [7, 13], [8, 9, 11, 14], [8, 14], [9, 10, 11, 12, 13, 14], [9, 11, 14], [10, 12, 13], [13], [14]