$HS.2$

$4.2^4 : S_5$ $\leq 2_+^{1+6} : S_5$	11550	$1a^{\pm} + 77a^{\pm} + 154a^{\pm} + 175a^{\pm} + 693a^{\pm} +$ $825a^{\pm} + 1056a^{\pm} + 1386a^{\pm} + 1408a^{\pm}$	18

Character Numbers: [1, 2, 5, 6, 7, 8, 10, 11, 14, 15, 19, 20, 22, 23, 24, 25, 26, 27]

	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}	S_{15}	S_{16}	S_{17}	S_{18}
χ_1	1	1	30	30	80	80	128	128	480	480	640	640	960	960	1536	1536	1920	1920
χ_2	1	−1	30	−30	80	−80	−128	128	480	−480	640	−640	960	−960	−1536	1536	1920	−1920
χ_3	1	1	15	15	20	20	−32	−32	60	60	80	80	0	0	96	96	−240	−240
χ_4	1	−1	15	−15	20	−20	32	−32	60	−60	80	−80	0	0	−96	96	−240	240
χ_5	1	1	15	15	20	20	8	8	60	60	−20	−20	0	0	−144	−144	60	60
χ_6	1	−1	15	−15	20	−20	−8	8	60	−60	−20	20	0	0	144	−144	60	−60
χ_7	1	1	−3	−3	14	14	40	40	−48	−48	68	68	36	36	−48	−48	−60	−60
χ_8	1	−1	−3	3	14	−14	−40	40	−48	48	68	−68	36	−36	48	−48	−60	60
χ_9	1	1	5	5	−10	−10	8	8	0	0	20	20	−60	−60	16	16	20	20
χ_{10}	1	−1	5	−5	−10	10	−8	8	0	0	20	−20	−60	60	−16	16	20	−20
χ_{11}	1	1	7	7	4	4	0	0	−28	−28	−32	−32	16	16	32	32	0	0
χ_{12}	1	−1	7	−7	4	−4	0	0	−28	28	−32	32	16	−16	−32	32	0	0
χ_{13}	1	1	−5	−5	10	10	−12	−12	−10	−10	10	10	−20	−20	−4	−4	30	30
χ_{14}	1	−1	−5	5	10	−10	12	−12	−10	10	10	−10	−20	20	4	−4	30	−30
χ_{15}	1	−1	−5	5	0	0	−8	8	20	−20	−20	20	0	0	−16	16	−20	20
χ_{16}	1	1	−5	−5	0	0	8	8	20	20	−20	−20	0	0	16	16	−20	−20
χ_{17}	1	1	0	0	−10	−10	−7	−7	0	0	10	10	30	30	−24	−24	0	0
χ_{18}	1	−1	0	0	−10	10	7	−7	0	0	10	−10	30	−30	24	−24	0	0

Ramanujan Graphs: [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 15, 17, 18], [2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 9, 11, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 9, 12, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 10, 11, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 8, 11, 12, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 9, 10, 11, 13, 15, 17, 18], [2, 3, 4, 5, 6, 7, 9, 10, 12, 13, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 9, 10, 13, 14, 15, 16, 17, 18], [2, 3, 4, 5, 6, 7, 9, 11, 14, 15, 16, 17, 18], 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