

**Appendix E**  
**Construction**

**DAILY CONSTRUCTION WORKFORCE PROJECTIONS**

WORKFORCE PROJECTIONS	2014												2015												2016												2017												2018											
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
MSK DAILY WORKERS	5	12	64	76	94	90	121	138	143	156	167	174	177	178	180	183	175	171	162	252	277	298	296	382	456	447	427	440	442	385	409	437	454	471	469	454	440	436	432	464	453	439	413	387	352	328	293	202	191	151	83	68	43	34	27	0	0	0	0	0
CUNY DAILY WORKERS	7	10	43	50	63	60	86	97	101	108	119	123	125	126	129	129	123	121	115	112	107	100	160	194	220	224	330	302	250	260	316	334	335	323	293	292	313	335	348	342	342	339	318	301	259	186	190	113	61	60	48	41	34	27	0	0	0	0	0	0
AVERAGE DAILY WORKERS:	12	22	107	126	157	150	207	235	244	264	286	297	302	304	309	312	298	292	277	364	384	398	456	576	676	671	757	742	692	645	725	771	789	794	762	746	753	771	780	806	795	778	731	688	611	514	423	315	252	211	131	109	77	61	27	0	0	0	0	0
2014												2015				2016				2017				2018				Max		Avg																														
1Q 2Q 3Q 4Q												1Q 2Q 3Q 4Q				1Q 2Q 3Q 4Q				1Q 2Q 3Q 4Q				1Q 2Q 3Q 4Q				793		436																														
47 144 229 282 305 301 342 477 701 693 762 767												768 793 677 417 198 82 27 --																																																





























KKK9	10	57.9	59.0	39.7	58.0	0.1	59.1	41.9	58.0	0.1	59.1	42.7	58.1	0.1	59.2	47.8	58.3	0.4	59.4	44.5	58.1	0.2	59.2	42.2	58.0	0.1	59.1	0.4	59.4
KKK9	15	57.9	59.0	42.6	58.1	0.1	59.2	42.4	58.1	0.1	59.2	44.5	58.1	0.2	59.2	52.2	59.0	1.0	60.1	47.4	58.3	0.4	59.4	42.3	58.1	0.1	59.2	1.0	60.1
KKK9	20	57.9	59.0	43.0	58.1	0.1	59.2	42.5	58.1	0.1	59.2	45.6	58.2	0.2	59.3	53.6	59.3	1.4	60.4	47.4	58.3	0.4	59.4	42.1	58.0	0.1	59.1	1.4	60.4
KKK9	25	57.9	59.0	43.2	58.1	0.1	59.2	43.3	58.1	0.1	59.2	45.7	58.2	0.3	59.3	53.6	59.3	1.4	60.4	47.5	58.3	0.4	59.4	42.4	58.1	0.1	59.2	1.4	60.4
KKK9	30	57.9	59.0	44.4	58.1	0.2	59.2	44.7	58.1	0.2	59.2	45.8	58.2	0.3	59.3	53.6	59.3	1.4	60.4	47.5	58.3	0.4	59.4	42.5	58.1	0.1	59.2	1.4	60.4
KKK9	33	57.9	59.0	44.7	58.1	0.2	59.2	45.6	58.2	0.2	59.3	45.6	58.2	0.2	59.3	53.6	59.3	1.4	60.4	47.5	58.3	0.4	59.4	42.4	58.1	0.1	59.2	1.4	60.4
KKK10	1	63.8	64.9	40.7	63.8	0.0	64.9	48.4	63.9	0.1	65.0	48.2	63.9	0.1	65.0	48.5	63.9	0.1	65.0	48.4	63.9	0.1	65.0	48.5	63.9	0.1	65.0	0.1	65.0
KKK10	3	64.6	65.7	40.7	64.6	0.0	65.7	48.8	64.7	0.1	65.8	48.7	64.7	0.1	65.8	48.9	64.7	0.1	65.8	48.9	64.7	0.1	65.8	48.9	64.7	0.1	65.8	0.1	65.8
KKK10	5	64.0	65.1	40.6	64.0	0.0	65.1	48.1	64.1	0.1	65.2	47.9	64.1	0.1	65.2	48.2	64.1	0.1	65.2	48.1	64.1	0.1	65.2	48.2	64.1	0.1	65.2	0.1	65.2
KKK10	10	62.7	63.8	48.2	62.9	0.2	64.0	46.3	62.8	0.1	63.9	46.6	62.8	0.1	63.9	48.9	62.9	0.2	64.0	47.4	62.8	0.1	63.9	46.5	62.8	0.1	63.9	0.2	64.0
KKK10	17	61.9	63.0	48.8	62.1	0.2	63.2	45.8	62.0	0.1	63.1	47.9	62.1	0.2	63.2	54.2	62.6	0.7	63.7	49.6	62.1	0.2	63.2	45.9	62.0	0.1	63.1	0.7	63.7
KKK11	1	65.8	66.9	47.9	65.9	0.1	67.0	49.5	65.9	0.1	67.0	49.4	65.9	0.1	67.0	49.5	65.9	0.1	67.0	49.5	65.9	0.1	67.0	49.5	65.9	0.1	67.0	0.1	67.0
KKK11	3	67.2	68.3	46.0	67.2	0.0	68.3	50.7	67.3	0.1	68.4	50.7	67.3	0.1	68.4	50.8	67.3	0.1	68.4	50.7	67.3	0.1	68.4	50.7	67.3	0.1	68.4	0.1	68.4
KKK11	5	66.8	67.9	44.5	66.8	0.0	67.9	50.3	66.9	0.1	68.0	50.3	66.9	0.1	68.0	50.5	66.9	0.1	68.0	50.4	66.9	0.1	68.0	50.4	66.9	0.1	68.0	0.1	68.0
KKK11	10	65.3	66.4	49.3	65.4	0.1	66.5	48.8	65.4	0.1	66.5	48.7	65.4	0.1	66.5	49.1	65.4	0.1	66.5	48.9	65.4	0.1	66.5	48.8	65.4	0.1	66.5	0.1	66.5
KKK11	17	63.6	64.7	50.7	63.8	0.2	64.9	47.4	63.7	0.1	64.8	48.7	63.7	0.1	64.8	53.5	64.0	0.4	65.1	49.9	63.8	0.2	64.9	47.4	63.7	0.1	64.8	0.4	65.1
LLL1	1	57.9	59.0	50.2	58.6	0.7	59.7	35.7	58.0	0.0	59.1	38.4	58.0	0.0	59.1	45.4	58.2	0.2	59.3	41.2	58.0	0.1	59.1	36.4	58.0	0.0	59.1	0.7	59.7
LLL1	3	57.9	59.0	48.6	58.4	0.5	59.5	36.0	58.0	0.0	59.1	38.6	58.0	0.1	59.1	45.5	58.2	0.2	59.3	41.3	58.0	0.1	59.1	36.6	58.0	0.0	59.1	0.5	59.5
LLL1	6	57.9	59.0	46.8	58.3	0.3	59.4	36.4	58.0	0.0	59.1	39.0	58.0	0.1	59.1	46.1	58.2	0.3	59.3	41.5	58.0	0.1	59.1	37.2	58.0	0.0	59.1	0.3	59.4
LLL2	1	57.9	59.0	32.0	57.9	0.0	59.0	34.8	58.0	0.0	59.1	41.7	58.0	0.1	59.1	47.0	58.3	0.3	59.4	44.0	58.1	0.2	59.2	35.6	58.0	0.0	59.1	0.3	59.4
LLL2	3	59.3	60.4	32.7	59.3	0.0	60.4	35.0	59.3	0.0	60.5	41.9	59.4	0.1	60.5	47.4	59.6	0.3	60.7	44.0	59.4	0.1	60.5	35.7	59.3	0.0	60.4	0.3	60.7
LLL2	6	61.7	62.8	34.0	61.7	0.0	62.8	35.3	61.7	0.0	62.8	42.1	61.7	0.0	62.8	48.3	61.9	0.2	63.0	44.2	61.8	0.1	62.9	36.2	61.7	0.0	62.8	0.2	63.0
LLL3	1	57.9	59.0	30.1	57.9	0.0	59.0	34.9	58.0	0.0	59.1	41.1	58.0	0.1	59.1	50.5	58.7	0.7	59.8	47.6	58.3	0.4	59.4	42.5	58.1	0.1	59.2	0.7	59.8
LLL3	3	59.3	60.4	30.8	59.3	0.0	60.4	35.1	59.3	0.0	60.5	41.2	59.4	0.1	60.5	49.9	59.8	0.5	60.9	46.9	59.5	0.2	60.6	41.0	59.4	0.1	60.5	0.5	60.9
LLL3	6	61.8	62.9	32.0	61.8	0.0	62.9	36.0	61.8	0.0	62.9	41.5	61.8	0.0	62.9	50.0	62.1	0.3	63.2	46.8	61.9	0.1	63.0	40.6	61.8	0.0	62.9	0.3	63.2
MMM1	1	65.6	66.7	30.1	65.6	0.0	66.7	32.5	65.6	0.0	66.7	35.6	65.6	0.0	66.7	42.5	65.6	0.0	66.7	38.5	65.6	0.0	66.7	33.3	65.6	0.0	66.7	0.0	66.7
MMM1	3	69.2	70.3	30.4	69.2	0.0	70.3	32.9	69.2	0.0	70.3	37.6	69.2	0.0	70.3	43.5	69.2	0.0	70.3	40.9	69.2	0.0	70.3	33.7	69.2	0.0	70.3	0.0	70.3
MMM1	5	69.6	70.7	30.2	69.6	0.0	70.7	33.0	69.6	0.0	70.7	37.7	69.6	0.0	70.7	44.2	69.6	0.0	70.7	41.9	69.6	0.0	70.7	35.6	69.6	0.0	70.7	0.0	70.7
MMM1	7	69.5	70.6	28.6	69.5	0.0	70.6	33.2	69.5	0.0	70.6	37.8	69.5	0.0	70.6	44.9	69.5	0.0	70.6	41.0	69.5	0.0	70.6	33.9	69.5	0.0	70.6	0.0	70.6
MMM2	1	59.1	60.2	29.5	59.1	0.0	60.2	32.9	59.1	0.0	60.3	40.0	59.2	0.1	60.3	45.0	59.3	0.2	60.4	42.5	59.2	0.1	60.3	33.7	59.1	0.0	60.2	0.2	60.4
MMM2	3	63.1	64.2	30.5	63.1	0.0	64.2	33.2	63.1	0.0	64.2	40.2	63.1	0.0	64.2	45.6	63.2	0.1	64.3	42.7	63.1	0.0	64.2	33.9	63.1	0.0	64.2	0.1	64.3
MMM2	6	65.7	66.8	30.3	65.7	0.0	66.8	33.4	65.7	0.0	66.8	40.3	65.7	0.0	66.8	46.5	65.8	0.1	66.9	42.7	65.7	0.0	66.8	34.2	65.7	0.0	66.8	0.1	66.9
MMM3	6	57.9	59.0	29.3	57.9	0.0	59.0	33.2	57.9	0.0	59.0	40.4	58.0	0.1	59.1	45.6	58.2	0.2	59.3	41.1	58.0	0.1	59.1	33.9	58.0	0.0	59.1	0.2	59.3
MMM3	6	59.5	60.6	30.1	59.5	0.0	60.6	33.6	59.5	0.0	60.7	40.6	59.6	0.1	60.7	46.1	59.7	0.2	60.8	41.1	59.6	0.1	60.7	34.2	59.5	0.0	60.6	0.2	60.8
MMM3	6	62.2	63.3	30.7	62.2	0.0	63.3	33.9	62.2	0.0	63.3	40.7	62.2	0.0	63.3	47.1	62.3	0.1	63.4	41.3	62.2	0.0	63.3	34.5	62.2	0.0	63.3	0.1	63.4
MMM4	6	57.9	59.0	36.4	58.0	0.0	59.1	37.7	58.0	0.0	59.1	45.4	58.2	0.2	59.2	50.1	58.6	0.7	59.7	50.6	58.7	0.7	59.8	34.8	58.9	0.9	60.0	0.9	60.0
MMM4	6	57.9	59.0	37.0	58.0	0.0	59.1	38.0	58.0	0.0	59.1	42.8	58.1	0.1	59.2	45.7	58.2	0.3	59.3	46.6	58.2	0.3	59.3	47.3	58.3	0.4	59.4	0.4	59.4
MMM4	6	59.2	60.3	35.3	59.2	0.0	60.3	37.4	59.2	0.0	60.3	42.6	59.3	0.1	60.4	46.4	59.4	0.2	60.5	46.3	59.4	0.2	60.5	46.8	59.4	0.2	60.5	0.2	60.5



Table 5

**MSK-CUNY**

Construction simultaneous w/ HSS construction peak

CadnaA Receptor Sites	Elevation (floor)	2014		2015		2016		2017		2018		
		HSS Peak	MSKCUNY	Total	MSKCUNY	Total	MSKCUNY	Total	MSKCUNY	Total	MSKCUNY	Total
		Leq	Leq	Leq	Leq	Leq	Leq	Leq	Leq	Leq	Leq	Leq
A	1	62.7	65.7	67.5	66.0	67.6	67.4	68.7	68.8	69.8	66.7	68.2
A	2	68.0	66.9	70.5	66.6	70.4	67.8	70.9	69.1	71.6	67.0	70.6
B	1	59.2	64.7	65.8	65.3	66.3	65.9	66.7	65.9	66.8	65.6	66.5
B	2	61.7	65.7	67.1	65.6	67.1	66.3	67.6	66.3	67.6	65.9	67.3
B	3	64.4	65.6	68.1	65.3	67.9	66.4	68.6	66.4	68.5	66.1	68.4
C1	1	53.2	65.3	65.6	65.3	65.5	65.8	66.0	65.8	66.0	65.5	65.8
C1	2	53.5	65.6	65.8	65.4	65.7	66.1	66.3	66.0	66.2	65.8	66.0
C1	3	53.9	66.6	66.8	66.3	66.6	67.1	67.3	67.0	67.2	66.9	67.1
C1	4	58.4	65.4	66.2	64.8	65.7	66.4	67.0	66.0	66.7	66.0	66.7
C1	5	58.3	65.2	66.0	64.5	65.5	65.4	66.2	65.7	66.4	64.9	65.8
C2	4	60.3	62.4	64.5	59.4	62.9	61.0	63.6	60.6	63.5	60.2	63.2
C2	5	61.5	62.5	65.1	60.2	63.9	63.1	65.4	61.6	64.5	61.5	64.5
D1	1	52.9	65.5	65.7	65.6	65.8	66.0	66.2	66.0	66.2	65.8	66.0
D1	2	53.1	65.4	65.6	65.9	66.1	66.3	66.5	66.3	66.5	66.2	66.4
D1	3	53.1	65.1	65.4	65.5	65.7	66.2	66.4	66.2	66.4	65.9	66.2
D1	4	52.8	65.4	65.6	65.0	65.3	66.0	66.2	65.9	66.1	66.0	66.2
D1	5	54.9	65.3	65.7	64.6	65.1	65.4	65.8	65.7	66.1	65.1	65.5
D2	1	49.8	65.7	65.8	65.3	65.4	65.3	65.4	65.3	65.4	65.3	65.4
D2	2	50.4	66.6	66.7	66.4	66.5	66.4	66.5	66.4	66.5	66.4	66.5
D2	3	50.3	66.5	66.6	66.3	66.4	66.3	66.4	66.3	66.4	66.3	66.4
D2	4	50.1	66.1	66.2	66.1	66.2	66.1	66.2	66.1	66.2	66.1	66.2
D2	5	49.7	65.8	65.9	65.8	65.9	65.8	65.9	65.8	65.9	65.8	65.9
E1	1	55.2	64.4	64.9	65.1	65.6	65.9	66.3	66.0	66.3	65.6	66.0
E1	2	59.3	64.8	65.9	65.4	66.3	66.8	67.5	66.7	67.4	66.4	67.1
E1	3	63.2	64.6	66.9	64.9	67.2	67.1	68.6	67.1	68.6	66.5	68.2
E1	4	63.0	65.4	67.3	64.5	66.8	68.4	69.5	67.5	68.8	67.2	68.6
E1	5	62.8	65.1	67.1	64.9	67.0	68.6	69.6	68.4	69.4	67.4	68.7

E1	6	62.6	64.6	66.7	64.5	66.7	68.9	69.9	68.3	69.3	67.7	68.9
E2	1	64.7	60.3	66.1	58.3	65.6	58.3	65.6	59.1	65.8	58.2	65.6
E2	2	76.4	61.0	76.5	58.8	76.5	58.7	76.5	59.5	76.5	58.3	76.5
E2	3	79.1	63.2	79.2	60.4	79.2	59.7	79.1	60.1	79.2	59.0	79.1
E2	4	78.8	64.3	78.9	63.0	78.9	60.5	78.9	61.2	78.9	59.6	78.9
E2	5	78.4	66.1	78.6	65.4	78.6	61.6	78.5	62.7	78.5	60.8	78.5
E2	6	78.0	66.1	78.3	66.5	78.3	61.9	78.1	62.9	78.1	61.0	78.1
E3	1	63.5	58.3	64.7	58.3	64.7	58.3	64.6	59.1	64.9	58.2	64.6
E3	2	73.8	59.3	74.0	58.6	73.9	58.3	73.9	59.3	73.9	58.2	73.9
E3	3	78.2	61.4	78.3	59.4	78.3	58.5	78.2	59.4	78.3	58.3	78.2
E3	4	77.9	63.3	78.0	61.0	78.0	58.8	78.0	59.7	78.0	58.6	78.0
E3	5	77.7	64.3	77.9	63.1	77.8	59.0	77.8	60.1	77.8	58.9	77.8
E3	6	77.4	64.3	77.6	65.1	77.6	59.2	77.5	60.4	77.5	59.3	77.5
F1	1	56.4	58.2	60.4	58.2	60.4	58.2	60.4	58.9	60.8	58.1	60.4
F1	2	61.6	59.0	63.5	58.4	63.3	58.2	63.2	58.9	63.5	58.1	63.2
F1	3	70.4	60.5	70.8	58.9	70.7	58.2	70.7	59.0	70.7	58.1	70.7
F1	4	70.7	61.8	71.2	59.8	71.0	58.3	70.9	59.2	71.0	58.2	70.9
F1	5	70.7	62.7	71.3	61.6	71.2	58.4	70.9	59.2	71.0	58.2	70.9
F1	6	71.4	63.3	72.0	62.9	72.0	59.0	71.6	59.7	71.7	59.1	71.6
F2	1	52.9	58.0	59.2	58.2	59.3	58.2	59.3	58.2	59.3	58.1	59.3
F2	2	53.0	58.0	59.2	58.2	59.4	58.2	59.3	58.2	59.3	58.2	59.3
F2	3	53.3	58.1	59.3	58.2	59.4	58.2	59.4	58.2	59.4	58.2	59.4
F2	4	53.4	58.1	59.3	58.2	59.5	58.2	59.4	58.2	59.4	58.2	59.4
F2	5	53.3	58.1	59.3	58.2	59.4	58.2	59.4	58.2	59.4	58.2	59.4
F2	6	53.7	58.1	59.5	58.3	59.6	58.3	59.6	58.2	59.5	58.2	59.5
F3	1	54.8	64.1	64.6	65.0	65.4	65.7	66.1	65.8	66.1	65.5	65.8
F3	2	55.9	64.6	65.1	65.3	65.8	66.5	66.8	66.4	66.7	66.1	66.5
F3	3	58.9	64.2	65.3	64.9	65.9	66.5	67.2	66.4	67.1	66.0	66.8
F3	4	58.7	64.8	65.7	64.5	65.5	66.9	67.5	66.8	67.5	66.7	67.3
F3	5	58.5	64.6	65.5	64.2	65.2	67.6	68.1	66.8	67.4	66.5	67.2
F3	6	58.3	64.1	65.1	63.9	65.0	67.6	68.1	67.3	67.8	66.5	67.1
G1	1	50.7	60.3	60.8	58.1	58.8	58.1	58.8	58.1	58.8	58.1	58.8
G1	2	50.8	60.0	60.5	58.1	58.9	58.1	58.9	58.1	58.9	58.1	58.8
G1	3	51.5	59.8	60.4	58.1	59.0	58.1	59.0	58.1	59.0	58.1	59.0

G1	4	51.8	58.0	59.0	58.1	59.0	58.1	59.0	58.2	59.1	58.1	59.0
G1	5	51.8	58.1	59.0	58.1	59.0	58.2	59.1	58.2	59.1	58.1	59.0
G1	6	53.0	58.1	59.3	58.2	59.4	58.3	59.4	58.6	59.6	58.1	59.3
G2	1	52.8	58.3	59.4	58.2	59.3	58.1	59.2	58.9	59.9	58.1	59.2
G2	2	55.1	59.5	60.8	58.3	60.0	58.1	59.9	59.0	60.5	58.1	59.9
G2	3	61.2	60.1	63.7	58.6	63.1	58.2	63.0	59.1	63.3	58.1	62.9
G2	4	63.2	61.0	65.2	59.1	64.6	58.2	64.4	58.9	64.6	58.1	64.4
G2	5	63.2	62.1	65.7	59.8	64.8	58.3	64.4	59.1	64.6	58.1	64.4
G2	6	64.0	62.7	66.4	60.8	65.7	58.5	65.1	59.3	65.3	58.1	65.0
G3	1	54.3	64.0	64.5	65.0	65.3	65.6	65.9	65.6	65.9	65.4	65.7
G3	2	54.6	64.4	64.9	65.3	65.7	66.2	66.5	66.1	66.4	65.9	66.2
G3	3	54.7	64.2	64.7	65.0	65.4	66.1	66.4	66.0	66.3	65.7	66.1
G3	4	56.5	64.7	65.3	64.5	65.1	66.2	66.7	66.3	66.8	66.0	66.4
G3	5	56.3	64.5	65.1	64.0	64.7	66.6	67.0	66.2	66.6	66.0	66.5
G3	6	56.0	64.0	64.6	63.7	64.4	66.8	67.1	66.1	66.5	65.8	66.2
H1	1	54.0	64.7	65.1	65.0	65.3	65.5	65.8	65.5	65.8	65.3	65.6
H1	2	54.1	65.0	65.3	65.3	65.6	66.0	66.3	65.9	66.2	65.8	66.1
H1	3	54.2	64.7	65.1	64.9	65.3	65.9	66.2	65.8	66.1	65.6	65.9
H1	4	55.3	64.7	65.2	64.5	65.0	65.8	66.2	66.0	66.3	65.5	65.9
H1	5	55.1	64.4	64.9	64.1	64.6	65.8	66.2	65.8	66.2	65.8	66.1
H1	6	54.6	64.0	64.5	63.6	64.1	66.2	66.5	65.6	66.0	65.5	65.8
H2	1	50.4	60.5	60.9	58.2	58.9	58.2	58.8	58.9	59.5	58.1	58.8
H2	2	50.4	61.0	61.3	58.3	58.9	58.2	58.9	58.9	59.5	58.1	58.8
H2	3	56.1	60.9	62.2	58.5	60.5	58.3	60.3	59.1	60.9	58.1	60.2
H2	4	60.3	60.4	63.4	58.7	62.6	58.3	62.4	59.1	62.8	58.1	62.3
H2	5	60.3	61.8	64.1	59.2	62.8	58.4	62.5	58.9	62.7	58.1	62.3
H2	6	60.9	62.3	64.7	60.0	63.5	58.4	62.8	58.9	63.0	58.1	62.7
H3	1	49.5	58.0	58.6	58.2	58.7	58.1	58.7	58.2	58.7	58.2	58.7
H3	2	49.5	58.0	58.6	58.2	58.7	58.2	58.7	58.2	58.7	58.2	58.7
H3	3	49.8	58.0	58.6	58.2	58.8	58.2	58.8	58.2	58.8	58.2	58.8
H3	4	49.9	58.0	58.7	58.2	58.8	58.2	58.8	58.2	58.8	58.2	58.8
H3	5	50.0	58.1	58.7	58.2	58.8	58.3	58.9	58.3	58.9	58.1	58.7
H3	6	48.5	58.0	58.5	58.1	58.6	58.2	58.7	58.2	58.6	58.1	58.6
J1	1	53.6	64.2	64.6	65.1	65.4	65.5	65.8	65.5	65.8	65.4	65.7

J1	2	53.6	64.9	65.2	65.7	65.9	66.2	66.4	66.1	66.4	66.0	66.3
J1	3	53.4	64.7	65.0	65.4	65.7	66.0	66.3	65.9	66.2	65.8	66.1
J1	4	53.0	65.2	65.4	65.0	65.2	65.7	65.9	65.7	65.9	65.5	65.7
J1	5	53.2	64.9	65.1	64.6	64.9	65.6	65.9	65.8	66.0	65.5	65.8
J1	6	53.0	64.4	64.7	64.1	64.4	65.5	65.8	65.5	65.8	65.4	65.7
K1	1	61.8	62.2	65.0	62.6	65.2	63.7	65.9	64.3	66.2	64.4	66.3
K1	2	68.6	62.1	69.5	62.6	69.6	64.3	70.0	65.0	70.2	65.6	70.4
K1	3	74.9	61.9	75.1	62.2	75.1	64.4	75.3	65.4	75.4	65.9	75.4
K1	4	74.7	62.9	75.0	61.8	74.9	65.6	75.2	66.4	75.3	68.0	75.5
K2	1	62.7	61.2	65.0	58.6	64.1	58.5	64.1	59.4	64.4	58.2	64.0
K2	2	81.2	61.4	81.2	59.0	81.2	58.6	81.2	59.5	81.2	58.3	81.2
K2	3	81.3	62.1	81.4	59.6	81.3	58.9	81.3	59.7	81.3	58.7	81.3
K2	4	80.9	62.3	81.0	61.0	80.9	59.9	80.9	60.7	80.9	60.5	80.9
K3	1	54.3	58.2	59.7	58.2	59.7	58.2	59.7	58.7	60.0	58.1	59.6
K3	2	58.0	58.6	61.3	58.3	61.1	58.2	61.1	58.7	61.4	58.1	61.1
K3	3	66.8	61.9	68.0	58.6	67.4	58.2	67.4	58.8	67.4	58.2	67.4
K3	4	66.8	61.8	68.0	59.2	67.5	58.3	67.4	59.0	67.5	58.2	67.4
L1	1	59.6	61.0	63.4	62.7	64.4	63.6	65.0	63.9	65.3	64.2	65.5
L1	2	62.3	61.1	64.8	62.8	65.5	63.9	66.2	64.4	66.5	64.9	66.8
L1	3	65.2	61.1	66.6	62.4	67.0	63.9	67.6	64.5	67.9	65.0	68.1
L1	4	66.4	62.6	67.9	62.1	67.8	64.3	68.5	64.9	68.7	65.7	69.1
L1	5	69.7	62.6	70.5	61.8	70.3	64.8	70.9	65.4	71.1	67.1	71.6
L2	1	49.8	60.5	60.8	58.1	58.7	58.2	58.7	58.3	58.9	58.1	58.7
L2	2	49.8	60.2	60.6	58.1	58.7	58.2	58.8	58.3	58.9	58.1	58.7
L2	3	51.8	59.9	60.6	58.1	59.0	58.2	59.1	58.7	59.5	58.1	59.0
L2	4	53.3	58.2	59.5	58.1	59.4	58.3	59.5	58.7	59.8	58.1	59.3
L2	5	53.3	58.4	59.6	58.2	59.4	58.3	59.5	58.8	59.9	58.1	59.3
M1	1	57.4	62.7	63.8	63.9	64.8	64.4	65.2	64.6	65.4	64.8	65.5
M1	2	58.6	63.7	64.9	64.6	65.6	65.2	66.0	65.4	66.2	65.6	66.4
M1	3	59.8	63.8	65.2	64.5	65.8	65.1	66.2	65.4	66.5	65.7	66.7
M1	4	60.9	64.5	66.1	64.2	65.9	65.0	66.4	65.3	66.6	65.6	66.8
M1	5	61.6	64.4	66.2	63.9	65.9	65.3	66.8	65.5	67.0	66.0	67.3
M2	1	51.0	67.2	67.3	67.0	67.1	67.0	67.1	67.0	67.1	67.0	67.1
M2	2	51.4	67.9	68.0	67.7	67.8	67.7	67.8	67.7	67.8	67.7	67.8

M2	3	51.2	67.8	67.8	67.6	67.7	67.6	67.7	67.6	67.7	67.6	67.7
M2	4	51.0	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5
M2	5	51.3	67.1	67.3	67.1	67.2	67.1	67.2	67.1	67.2	67.1	67.3
N1	1	58.0	62.0	63.5	62.6	63.9	63.3	64.4	63.6	64.7	63.7	64.8
N1	2	59.7	63.2	64.8	63.7	65.2	64.4	65.7	64.7	65.9	64.9	66.0
N1	3	61.1	63.6	65.5	63.8	65.7	64.5	66.2	64.9	66.4	65.3	66.7
N1	4	63.2	64.0	66.6	63.6	66.4	64.4	66.8	64.8	67.1	66.5	68.2
N1	5	63.4	64.1	66.8	63.5	66.5	64.4	66.9	64.8	67.2	65.0	67.3
N1	6	65.0	64.1	67.6	63.3	67.3	64.5	67.8	65.0	68.0	65.0	68.0
N2	1	52.2	66.9	67.0	66.6	66.8	66.6	66.8	66.6	66.8	66.6	66.8
N2	2	53.1	67.8	67.9	67.6	67.8	67.6	67.8	67.6	67.8	67.6	67.8
N2	3	53.5	67.7	67.9	67.6	67.8	67.6	67.8	67.6	67.8	67.6	67.8
N2	4	53.8	67.4	67.6	67.4	67.6	67.4	67.6	67.4	67.6	67.4	67.6
N2	5	54.2	67.2	67.4	67.1	67.3	67.1	67.3	67.1	67.3	67.1	67.3
N2	6	54.8	66.8	67.1	66.8	67.1	66.8	67.1	66.8	67.1	66.8	67.1
N3	1	45.6	58.8	59.0	58.0	58.3	58.0	58.3	58.0	58.3	58.0	58.3
N3	2	45.6	58.8	59.0	58.0	58.3	58.0	58.3	58.0	58.3	58.0	58.3
N3	3	45.6	58.7	58.9	58.0	58.3	58.0	58.3	58.0	58.3	58.0	58.3
N3	4	45.5	58.0	58.2	58.0	58.3	58.0	58.3	58.0	58.3	58.0	58.3
N3	5	45.6	58.0	58.2	58.0	58.3	58.0	58.3	58.0	58.3	58.0	58.3
N3	6	45.6	58.0	58.2	58.0	58.3	58.0	58.3	58.0	58.3	58.0	58.3
O1	1	42.5	62.4	62.5	62.4	62.5	62.4	62.5	62.4	62.5	62.4	62.5
O1	2	42.5	62.7	62.7	62.7	62.8	62.7	62.8	62.7	62.8	62.7	62.8
O1	3	42.5	62.4	62.5	62.4	62.5	62.4	62.5	62.4	62.5	62.4	62.5
O1	4	42.5	62.1	62.2	62.1	62.2	62.1	62.2	62.1	62.2	62.2	62.2
O1	5	42.5	61.8	61.9	61.8	61.9	61.8	61.9	61.8	61.9	61.9	61.9
O2	1	41.2	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
O2	2	41.2	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
O2	3	41.3	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
O2	4	41.3	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.1	58.1
O2	5	41.2	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.1	58.1
P1	1	43.5	62.4	62.5	62.4	62.5	62.4	62.5	62.4	62.5	62.4	62.5
P1	2	43.5	62.7	62.8	62.7	62.8	62.7	62.8	62.7	62.8	62.7	62.8
P1	3	43.5	62.5	62.6	62.5	62.6	62.5	62.6	62.5	62.6	62.5	62.6

P1	4	43.5	62.1	62.2	62.1	62.2	62.1	62.2	62.1	62.2	62.2	62.2
P1	5	43.5	61.8	61.9	61.8	61.9	61.8	61.9	61.8	61.9	61.9	61.9
P2	1	42.7	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.2	58.0	58.2
P2	2	42.7	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.2	58.0	58.2
P2	3	42.8	58.0	58.1	58.0	58.1	58.0	58.1	58.1	58.2	58.0	58.2
P2	4	42.7	58.0	58.1	58.0	58.1	58.0	58.1	58.1	58.2	58.0	58.2
P2	5	42.6	58.0	58.1	58.0	58.1	58.0	58.1	58.1	58.2	58.0	58.2
Q1	1	43.6	62.3	62.4	62.3	62.4	62.3	62.4	62.3	62.4	62.3	62.4
Q1	2	43.6	62.6	62.7	62.6	62.7	62.6	62.7	62.6	62.7	62.6	62.7
Q1	3	43.6	62.3	62.4	62.3	62.4	62.3	62.4	62.3	62.4	62.3	62.4
Q1	4	43.6	61.9	62.0	61.9	62.0	61.9	62.0	61.9	62.0	62.0	62.0
Q1	5	43.5	61.6	61.7	61.6	61.7	61.7	61.7	61.6	61.7	61.7	61.7
Q2	1	42.6	58.0	58.1	58.0	58.2	58.1	58.2	58.1	58.2	58.1	58.2
Q2	2	42.6	58.0	58.1	58.0	58.2	58.1	58.2	58.1	58.2	58.1	58.2
Q2	3	42.6	58.0	58.1	58.0	58.2	58.1	58.3	58.1	58.3	58.1	58.2
Q2	4	42.6	58.0	58.1	58.0	58.2	58.2	58.3	58.2	58.3	58.0	58.2
Q2	5	42.6	58.0	58.1	58.0	58.1	58.3	58.5	58.2	58.3	58.0	58.2
R1	1	42.7	62.3	62.4	62.3	62.4	62.3	62.4	62.3	62.4	62.3	62.4
R1	2	42.7	62.5	62.6	62.5	62.6	62.5	62.6	62.5	62.6	62.5	62.6
R1	3	42.7	62.2	62.3	62.2	62.3	62.2	62.3	62.2	62.3	62.2	62.3
R1	4	42.7	61.9	62.0	61.9	62.0	61.9	62.0	61.9	62.0	61.9	62.0
R1	5	42.7	61.5	61.6	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6
R2	1	41.1	58.0	58.1	58.0	58.1	58.1	58.2	58.1	58.2	58.1	58.1
R2	2	41.0	58.0	58.1	58.0	58.1	58.1	58.2	58.1	58.2	58.1	58.1
R2	3	41.0	58.0	58.1	58.0	58.1	58.2	58.3	58.1	58.2	58.1	58.1
R2	4	41.0	58.0	58.0	58.0	58.1	58.3	58.3	58.1	58.2	58.0	58.1
R2	5	40.9	58.0	58.0	58.0	58.1	58.4	58.4	58.2	58.3	58.0	58.1
S1	1	42.6	62.2	62.3	62.2	62.3	62.2	62.3	62.2	62.3	62.2	62.3
S1	2	42.6	62.5	62.6	62.5	62.6	62.5	62.6	62.5	62.6	62.5	62.6
S1	3	42.6	62.2	62.3	62.2	62.3	62.2	62.3	62.2	62.3	62.2	62.3
S1	4	42.6	61.8	61.9	61.8	61.9	61.8	61.9	61.8	61.9	61.8	61.9
S1	5	42.6	61.4	61.5	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5
S2	1	41.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
S2	2	41.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1



W2	2	42.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
W2	3	41.8	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
W2	4	41.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
W2	5	41.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
W3	1	40.3	65.3	65.4	65.3	65.3	65.3	65.4	65.3	65.3	65.3	65.4
W3	2	40.4	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
W3	3	40.6	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
W3	4	40.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
W3	5	40.8	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
X1	1	41.3	58.5	58.6	58.1	58.2	59.0	59.0	59.2	59.2	58.5	58.6
X1	2	41.5	58.5	58.6	58.2	58.3	59.2	59.3	59.3	59.4	58.6	58.7
X1	3	41.5	61.4	61.5	60.0	60.0	60.8	60.8	60.9	60.9	60.3	60.4
X1	4	41.6	64.3	64.3	63.6	63.6	64.0	64.0	64.1	64.1	63.8	63.8
X1	5	41.8	65.3	65.3	64.8	64.9	65.2	65.2	65.3	65.3	65.0	65.0
X2	1	41.0	58.0	58.1	58.1	58.2	58.1	58.2	58.1	58.2	58.1	58.2
X2	2	41.3	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
X2	3	41.3	65.5	65.5	65.5	65.5	65.5	65.6	65.5	65.6	65.5	65.6
X2	4	41.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
X2	5	41.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
Y1	1	42.0	60.5	60.6	58.9	59.0	59.7	59.8	59.5	59.6	58.6	58.7
Y1	2	42.6	61.7	61.8	59.4	59.5	60.0	60.1	59.7	59.7	58.7	58.8
Y1	3	42.8	62.0	62.1	60.0	60.1	60.3	60.3	59.8	59.8	58.8	58.9
Y1	4	42.9	62.6	62.7	60.8	60.8	60.6	60.6	59.8	59.9	58.9	59.1
Y1	5	42.9	63.6	63.6	62.3	62.4	62.0	62.0	61.2	61.3	60.6	60.6
Y2	1	41.9	58.1	58.2	58.1	58.2	58.2	58.3	58.2	58.3	58.2	58.3
Y2	2	42.2	58.9	58.9	58.9	59.0	58.9	59.0	58.9	59.0	58.9	59.0
Y2	3	42.2	60.6	60.7	60.6	60.7	60.7	60.7	60.6	60.7	60.6	60.7
Y2	4	42.2	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
Y2	5	42.1	64.2	64.3	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3
Z1	1	42.7	61.0	61.1	59.1	59.2	59.7	59.7	59.5	59.6	58.7	58.8
Z1	2	43.2	62.5	62.6	59.7	59.8	59.9	60.0	59.7	59.8	58.8	58.9
Z1	3	43.4	63.1	63.2	60.5	60.6	60.2	60.3	59.7	59.8	59.0	59.1
Z1	4	43.6	63.2	63.2	61.5	61.6	60.4	60.5	59.9	60.0	59.1	59.2
Z1	5	43.7	63.2	63.2	62.6	62.7	60.7	60.8	59.9	60.0	59.2	59.4



Z2	1	42.6	58.1	58.3	58.1	58.3	58.2	58.3	58.2	58.3	58.2	58.3
Z2	2	42.9	58.9	59.0	58.9	59.0	59.0	59.1	58.9	59.0	58.9	59.0
Z2	3	43.0	59.4	59.5	59.4	59.5	59.4	59.5	59.4	59.5	59.4	59.5
Z2	4	42.9	60.0	60.1	60.1	60.1	60.1	60.2	60.1	60.2	60.1	60.2
Z2	5	42.7	61.1	61.2	61.1	61.2	61.2	61.2	61.1	61.2	61.1	61.2
Z3	1	42.7	59.1	59.2	58.1	58.2	58.7	58.8	58.9	59.0	58.1	58.3
Z3	2	42.9	59.1	59.2	58.1	58.3	58.8	58.9	58.9	59.0	58.2	58.3
Z3	3	42.9	59.3	59.4	58.2	58.3	58.9	59.0	59.0	59.1	58.2	58.3
Z3	4	43.1	59.2	59.3	58.2	58.4	58.9	59.1	59.0	59.2	58.2	58.3
Z3	5	43.2	59.2	59.4	59.0	59.1	59.0	59.2	59.1	59.2	58.2	58.3
AA	1	46.6	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
AA	2	47.5	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
AA	3	47.6	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
AA	4	47.5	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
AA	5	47.2	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
AA	6	47.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
BB	1	47.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
BB	2	48.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
BB	3	48.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
BB	4	48.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
BB	5	48.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
BB	6	47.8	66.8	66.9	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
CC	1	49.4	66.5	66.6	66.5	66.5	66.5	66.6	66.5	66.5	66.5	66.5
CC	2	50.2	67.5	67.6	67.5	67.5	67.5	67.6	67.5	67.5	67.5	67.5
CC	3	50.3	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5
CC	4	50.2	67.1	67.2	67.2	67.3	67.2	67.3	67.2	67.3	67.2	67.3
CC	5	50.1	66.9	67.0	66.9	67.0	66.9	67.0	66.9	67.0	66.9	67.0
DD	1	49.2	66.2	66.3	66.2	66.2	66.2	66.3	66.2	66.3	66.2	66.2
DD	2	49.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4	67.3	67.3
DD	3	50.1	67.3	67.4	67.3	67.4	67.3	67.4	67.3	67.4	67.3	67.4
DD	4	50.1	67.0	67.1	67.1	67.2	67.1	67.2	67.1	67.2	67.1	67.2
DD	5	49.9	66.8	66.8	66.8	66.9	66.8	66.9	66.8	66.9	66.8	66.9
EE	1	49.5	66.2	66.3	66.2	66.3	66.2	66.3	66.2	66.3	66.2	66.3
EE	2	50.4	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5

EE	3	50.4	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5	67.4	67.5
EE	4	50.3	67.1	67.2	67.1	67.2	67.1	67.2	67.1	67.2	67.1	67.2
EE	5	50.2	66.8	66.9	66.8	66.9	66.8	66.9	66.8	66.9	66.8	66.9
FF	1	48.5	65.8	65.9	65.8	65.8	65.8	65.9	65.8	65.9	65.8	65.8
FF	2	49.4	67.0	67.1	67.0	67.0	67.0	67.1	67.0	67.1	67.0	67.0
FF	3	49.5	67.0	67.1	67.0	67.0	67.0	67.1	67.0	67.1	67.0	67.0
FF	4	49.5	66.8	66.9	66.9	67.0	66.9	67.0	66.9	67.0	66.9	67.0
FF	5	49.3	66.7	66.7	66.7	66.8	66.7	66.8	66.7	66.8	66.7	66.8
GG	1	47.8	64.7	64.8	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GG	2	48.6	65.8	65.9	65.7	65.8	65.7	65.8	65.7	65.8	65.7	65.8
GG	3	48.7	65.8	65.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GG	4	48.6	65.6	65.7	65.7	65.8	65.7	65.8	65.7	65.8	65.7	65.8
GG	5	48.5	65.4	65.5	65.5	65.6	65.5	65.6	65.5	65.6	65.5	65.6
GG	6	48.3	65.2	65.2	65.2	65.3	65.2	65.3	65.2	65.3	65.2	65.3
GG	7	48.7	65.0	65.1	64.9	65.0	65.1	65.2	65.0	65.1	64.9	65.0
HH1	1	48.3	66.3	66.3	66.3	66.4	66.3	66.4	66.3	66.4	66.3	66.4
HH1	2	49.3	67.4	67.5	67.5	67.6	67.5	67.6	67.5	67.6	67.5	67.6
HH2	1	53.2	62.7	63.2	62.8	63.2	63.2	63.6	63.3	63.7	63.4	63.8
HH2	2	53.8	63.3	63.8	63.3	63.7	63.7	64.1	63.8	64.2	63.9	64.3
JJ1	1	46.4	66.3	66.4	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
JJ1	2	47.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
JJ1	3	47.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
JJ1	4	47.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
JJ1	5	47.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
KK	1	46.5	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
KK	2	47.4	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
KK	3	47.5	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
KK	4	47.4	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
KK	5	47.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
LL	1	46.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
LL	2	47.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
LL	3	47.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
LL	4	47.5	67.5	67.5	67.5	67.5	67.5	67.6	67.5	67.5	67.5	67.5
LL	5	47.2	67.1	67.1	67.1	67.1	67.1	67.2	67.1	67.2	67.1	67.1

MM	1	46.8	66.4	66.5	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
MM	2	47.7	67.5	67.5	67.5	67.5	67.5	67.6	67.5	67.5	67.5	67.5
MM	3	47.7	67.4	67.4	67.4	67.4	67.4	67.5	67.4	67.5	67.4	67.4
MM	4	47.5	67.2	67.2	67.2	67.2	67.3	67.3	67.2	67.3	67.2	67.2
MM	5	47.2	67.0	67.0	67.0	67.0	67.0	67.1	67.0	67.1	67.0	67.0
MM	6	46.9	66.6	66.7	66.6	66.6	66.7	66.7	66.6	66.7	66.6	66.6
MM	7	46.6	66.3	66.4	66.3	66.3	66.4	66.4	66.3	66.4	66.3	66.3
NN	1	46.7	66.2	66.3	66.2	66.2	66.3	66.3	66.2	66.3	66.4	66.4
NN	2	47.6	67.2	67.2	67.2	67.2	67.2	67.3	67.2	67.3	67.3	67.4
NN	3	47.6	67.2	67.2	67.2	67.2	67.2	67.3	67.2	67.3	67.3	67.3
NN	4	47.5	67.1	67.1	67.1	67.1	67.2	67.2	67.1	67.2	67.2	67.2
NN	5	48.4	66.8	66.9	66.8	66.9	66.9	66.9	66.8	66.9	66.9	67.0
OO	1	46.7	66.1	66.2	66.1	66.2	66.3	66.3	66.3	66.4	66.4	66.4
OO	2	47.6	67.1	67.2	67.1	67.2	67.2	67.3	67.2	67.3	67.3	67.3
OO	3	47.6	67.1	67.2	67.1	67.2	67.2	67.3	67.2	67.3	67.3	67.3
OO	4	47.4	66.9	66.9	66.9	67.0	67.0	67.1	67.0	67.1	67.1	67.1
OO	5	47.1	66.6	66.7	66.6	66.7	66.7	66.8	66.7	66.8	66.8	66.8
PP1	1	50.5	66.6	66.7	66.6	66.7	67.7	67.7	67.8	67.9	67.6	67.7
PP1	3	50.0	70.7	70.7	69.4	69.5	70.2	70.2	69.7	69.8	70.0	70.1
PP1	5	49.8	71.1	71.2	73.1	73.1	73.7	73.7	71.2	71.2	73.8	73.8
PP1	10	51.6	70.3	70.4	72.9	73.0	73.3	73.3	71.6	71.6	73.9	73.9
PP1	15	51.1	69.2	69.2	71.8	71.8	71.6	71.6	72.0	72.0	71.4	71.4
PP1	20	50.6	68.8	68.9	71.2	71.2	72.3	72.4	71.7	71.7	70.0	70.1
PP1	25	50.1	68.0	68.1	70.3	70.4	71.3	71.3	70.3	70.3	68.7	68.8
PP1	30	49.9	67.2	67.3	69.5	69.6	70.0	70.1	68.6	68.7	67.5	67.5
PP1	35	49.5	66.2	66.3	68.7	68.7	68.9	68.9	67.4	67.5	66.4	66.5
PP1	40	49.0	65.1	65.2	67.8	67.9	67.8	67.9	66.4	66.4	65.5	65.6
PP1	45	48.6	64.4	64.5	67.1	67.2	66.9	67.0	65.5	65.6	64.8	64.9
PP1	50	48.2	63.7	63.8	66.4	66.4	66.1	66.2	64.7	64.8	64.0	64.1
PP2	1	46.5	59.4	59.6	59.5	59.7	61.9	62.0	61.6	61.7	60.1	60.3
PP2	3	47.1	64.9	64.9	62.0	62.2	64.4	64.5	63.6	63.6	61.8	62.0
PP2	5	56.8	65.3	65.9	67.8	68.1	68.1	68.4	66.7	67.2	63.9	64.7
PP2	10	56.5	64.8	65.4	69.3	69.5	70.6	70.7	68.1	68.4	68.0	68.3
PP2	15	56.1	64.0	64.7	68.5	68.8	69.1	69.3	67.5	67.8	66.7	67.0

PP2	20	55.7	63.3	64.0	67.7	68.0	69.4	69.6	66.8	67.2	65.3	65.7
PP2	25	55.2	62.5	63.2	66.9	67.2	68.5	68.7	65.9	66.3	64.2	64.7
PP2	30	54.8	61.9	62.7	66.2	66.5	67.5	67.8	64.7	65.1	63.2	63.8
PP2	35	54.2	61.4	62.1	65.4	65.7	66.5	66.7	63.6	64.0	62.4	63.0
PP2	40	53.7	61.0	61.7	64.8	65.2	65.6	65.8	62.7	63.3	61.8	62.4
PP2	45	53.1	60.6	61.3	64.2	64.5	64.8	65.0	62.0	62.6	61.3	61.9
PP2	50	52.6	60.3	60.9	63.8	64.1	64.1	64.4	61.5	62.0	60.9	61.5
PP3	1	45.6	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.4	74.4
PP3	3	43.5	76.9	76.9	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
PP3	5	42.7	76.8	76.8	76.9	76.9	76.7	76.7	76.7	76.7	76.7	76.7
PP3	10	42.1	75.7	75.7	75.7	75.7	75.6	75.6	75.6	75.6	75.6	75.6
PP3	15	41.7	74.3	74.3	74.4	74.4	74.2	74.2	74.5	74.5	74.2	74.2
PP3	20	41.6	73.0	73.0	73.1	73.1	73.0	73.0	73.2	73.2	72.9	72.9
PP3	25	41.3	72.0	72.0	72.1	72.1	72.0	72.0	72.2	72.2	71.9	71.9
PP3	30	40.7	71.0	71.0	71.1	71.1	71.0	71.0	71.2	71.2	70.9	70.9
PP3	35	40.4	70.2	70.2	70.3	70.4	70.2	70.2	70.4	70.4	70.1	70.1
PP3	40	39.9	69.4	69.4	69.6	69.6	69.4	69.4	69.5	69.5	69.3	69.3
PP3	45	39.4	68.7	68.7	68.9	68.9	68.7	68.7	68.8	68.8	68.6	68.6
PP3	50	38.8	68.1	68.1	68.3	68.3	68.1	68.1	68.2	68.2	68.0	68.0
PP4	1	42.2	58.1	58.2	58.2	58.3	58.3	58.4	58.3	58.4	58.3	58.4
PP4	3	42.2	67.1	67.1	67.1	67.1	67.1	67.2	67.1	67.2	67.1	67.2
PP4	5	42.2	67.1	67.1	67.1	67.2	67.1	67.2	67.1	67.2	67.1	67.2
PP4	10	41.5	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
PP4	15	43.8	66.3	66.3	66.3	66.4	66.4	66.4	66.3	66.4	66.3	66.4
PP4	20	43.5	65.4	65.4	65.4	65.5	65.5	65.5	65.4	65.5	65.4	65.5
PP4	25	43.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
PP4	30	42.8	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
PP4	35	42.3	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
PP4	40	41.9	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
PP4	45	41.5	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
PP4	50	41.1	60.7	60.8	60.8	60.9	60.8	60.9	60.8	60.8	60.8	60.8
QQ1	1	62.1	65.4	67.0	66.2	67.6	66.9	68.2	67.3	68.4	66.5	67.8
QQ1	3	73.8	69.0	75.0	70.0	75.3	72.1	76.0	72.3	76.1	69.9	75.3
QQ1	5	73.4	68.4	74.6	71.9	75.7	73.0	76.2	73.3	76.4	71.0	75.4

QQ1	7	72.8	68.2	74.1	71.6	75.2	72.2	75.5	71.8	75.4	70.6	74.9
QQ1	9	72.2	67.6	73.5	71.1	74.7	71.2	74.8	71.0	74.6	69.7	74.1
QQ2	7	46.2	60.5	60.6	59.5	59.7	60.9	61.0	61.3	61.4	58.8	59.0
QQ2	9	57.7	65.2	65.9	65.6	66.3	63.2	64.3	63.0	64.1	61.2	62.8
QQ3	1	43.5	59.5	59.6	58.1	58.2	59.3	59.4	59.3	59.4	58.2	58.3
QQ3	3	43.5	59.8	59.9	58.2	58.3	59.5	59.6	59.4	59.6	58.4	58.6
QQ3	5	43.4	60.2	60.3	59.0	59.1	60.0	60.1	59.7	59.8	58.7	58.9
QQ3	7	43.2	60.8	60.9	60.4	60.4	60.5	60.6	59.7	59.8	59.1	59.2
QQ3	9	49.7	63.5	63.7	63.7	63.9	62.7	62.9	61.7	62.0	62.0	62.2
QQ4	1	43.6	58.4	58.5	58.2	58.4	58.6	58.7	58.6	58.7	58.3	58.4
QQ4	3	44.0	59.7	59.9	59.5	59.6	59.7	59.8	59.7	59.8	59.4	59.6
QQ4	5	43.8	59.5	59.6	59.2	59.3	59.5	59.7	59.4	59.5	59.2	59.3
QQ4	7	43.6	59.9	60.0	59.7	59.8	60.0	60.1	59.8	59.9	59.5	59.6
QQ4	9	43.4	60.9	61.0	60.9	60.9	61.1	61.2	60.8	60.8	60.6	60.6
SS1	5	62.4	60.5	64.5	59.7	64.3	59.0	64.0	60.0	64.4	58.5	63.9
SS1	10	65.3	61.5	66.8	62.5	67.1	61.2	66.7	62.3	67.1	59.6	66.3
SS1	15	66.6	61.3	67.7	63.8	68.4	61.9	67.9	62.4	68.0	59.9	67.4
SS1	20	67.1	61.1	68.1	64.0	68.8	63.1	68.6	62.1	68.3	60.0	67.9
SS1	25	67.1	61.9	68.2	64.6	69.0	63.2	68.6	62.1	68.3	60.3	67.9
SS1	30	66.8	61.8	68.0	64.5	68.8	63.5	68.5	62.1	68.1	61.1	67.8
SS1	35	66.2	61.3	67.4	64.6	68.5	63.2	68.0	61.7	67.5	61.7	67.5
SS1	40	65.6	61.0	66.9	64.2	67.9	63.2	67.6	62.0	67.2	61.5	67.0
SS2	5	68.6	59.0	69.1	58.4	69.0	58.4	69.0	58.8	69.0	58.3	69.0
SS2	10	68.8	59.0	69.2	61.0	69.5	59.1	69.2	59.4	69.3	58.7	69.2
SS2	15	68.5	59.0	69.0	61.8	69.3	61.3	69.3	60.6	69.1	58.9	69.0
SS2	20	67.7	60.3	68.4	62.6	68.9	63.8	69.2	60.8	68.5	59.6	68.3
SS2	25	67.1	61.6	68.2	64.8	69.1	64.3	68.9	62.3	68.4	62.2	68.3
SS2	30	66.7	61.9	67.9	65.3	69.0	64.7	68.8	61.4	67.8	62.3	68.0
SS2	35	66.0	62.0	67.5	65.2	68.6	64.6	68.4	61.5	67.3	62.1	67.5
SS2	40	65.4	61.6	66.9	64.8	68.1	64.3	67.9	61.9	67.0	61.8	67.0
SS3	15	64.7	58.9	65.7	59.0	65.7	61.2	66.3	60.1	66.0	58.4	65.6
SS3	20	64.2	63.0	66.7	64.7	67.5	64.7	67.5	61.8	66.2	62.0	66.2
SS3	25	63.6	63.1	66.4	65.3	67.6	64.8	67.3	61.7	65.8	63.0	66.3
SS3	30	63.0	63.1	66.1	65.6	67.5	65.5	67.4	62.0	65.5	63.2	66.1

SS3	35	62.4	63.1	65.8	65.8	67.4	65.3	67.1	62.3	65.4	63.2	65.8
SS3	40	61.9	62.7	65.4	65.5	67.1	65.2	66.9	62.6	65.3	63.2	65.6
SS4	1	44.0	58.3	58.4	58.4	58.5	58.4	58.6	58.4	58.5	58.4	58.5
SS4	3	44.5	59.8	59.9	59.9	60.0	59.9	60.0	59.9	60.0	59.9	60.0
SS4	5	44.6	59.7	59.8	59.8	59.9	59.8	59.9	59.8	59.9	59.8	59.9
SS4	10	44.2	58.8	59.0	58.9	59.0	58.9	59.0	58.9	59.0	58.9	59.0
SS4	15	44.3	59.1	59.2	59.1	59.2	59.1	59.2	59.1	59.2	59.1	59.2
SS4	20	43.9	59.6	59.7	59.5	59.7	59.6	59.7	59.5	59.6	59.5	59.6
SS4	25	43.4	58.9	59.0	58.9	59.0	58.9	59.0	58.8	59.0	58.8	59.0
SS4	30	42.8	58.3	58.5	58.4	58.5	58.4	58.5	58.3	58.4	58.4	58.5
SS4	35	42.3	58.1	58.2	58.1	58.2	58.1	58.2	58.1	58.2	58.1	58.2
SS4	40	41.8	58.1	58.2	58.1	58.2	58.1	58.2	58.0	58.1	58.1	58.2
SS5	10	49.6	58.1	58.7	58.2	58.8	58.2	58.8	58.2	58.7	58.2	58.7
SS5	15	49.6	58.6	59.2	58.9	59.4	58.9	59.4	58.8	59.3	58.8	59.3
SS5	20	50.3	59.3	59.8	59.6	60.0	59.6	60.1	59.5	60.0	59.5	60.0
SS5	25	54.5	59.4	60.7	59.7	60.8	59.6	60.8	59.6	60.7	59.5	60.7
SS5	30	54.2	58.9	60.1	59.0	60.3	59.0	60.2	58.9	60.2	58.9	60.1
SS5	35	53.9	58.4	59.7	58.6	59.8	58.5	59.8	58.4	59.7	58.4	59.7
SS5	40	54.1	58.2	59.6	58.4	59.8	58.3	59.7	58.2	59.7	58.2	59.6
TT1	1	40.4	58.2	58.3	58.1	58.1	58.2	58.3	58.2	58.3	58.1	58.2
TT1	3	41.1	65.0	65.1	65.0	65.0	65.1	65.1	65.1	65.1	65.0	65.1
TT1	5	41.7	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.5	66.5
TT1	10	43.4	66.0	66.1	66.1	66.1	66.1	66.1	66.0	66.0	65.9	66.0
TT1	15	50.2	66.0	66.1	66.5	66.6	66.2	66.3	65.7	65.9	65.7	65.8
TT1	20	55.4	65.2	65.7	65.9	66.2	65.8	66.2	65.0	65.5	64.9	65.4
TT2	1	44.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
TT2	3	41.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
TT2	5	40.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
TT2	10	38.9	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
TT2	15	38.4	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
TT2	20	38.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
TT3	15	37.4	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
TT3	20	37.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
	1	42.9	58.6	58.7	58.7	58.8	59.1	59.2	59.1	59.2	58.7	58.8

UU1	3	43.0	59.6	59.7	59.7	59.8	60.2	60.3	60.0	60.1	59.7	59.8
UU1	5	42.6	59.8	59.8	59.9	59.9	60.4	60.5	60.2	60.3	59.8	59.9
UU1	10	41.7	63.3	63.4	63.3	63.3	63.3	63.3	63.0	63.1	62.8	62.8
UU1	15	49.2	63.2	63.4	64.2	64.3	63.5	63.7	62.5	62.7	62.4	62.6
UU1	20	53.1	62.9	63.4	64.2	64.5	63.8	64.1	62.2	62.7	62.1	62.6
UU1	25	56.0	62.9	63.7	64.2	64.8	63.6	64.3	62.0	63.0	62.0	63.0
UU1	30	57.9	62.9	64.1	64.5	65.4	63.7	64.7	61.9	63.4	62.3	63.7
UU1	35	60.6	62.9	64.9	64.4	65.9	63.7	65.4	61.7	64.2	61.7	64.2
UU1	40	61.6	62.5	65.1	64.3	66.2	63.3	65.6	61.4	64.5	61.3	64.5
UU1	45	61.4	61.9	64.7	63.9	65.9	62.9	65.2	61.0	64.2	61.2	64.3
UU2	1	38.8	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
UU2	3	39.1	58.3	58.4	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
UU2	5	39.2	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
UU2	10	39.0	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
UU2	15	38.8	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
UU2	20	38.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
UU2	25	38.4	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
UU2	30	39.2	58.8	58.9	58.9	58.9	58.9	58.9	58.8	58.9	58.9	58.9
UU2	35	39.3	59.3	59.4	59.3	59.4	59.4	59.4	59.3	59.4	59.3	59.4
UU2	40	39.6	59.3	59.4	59.3	59.4	59.3	59.4	59.3	59.4	59.3	59.4
UU2	45	40.0	59.0	59.1	59.0	59.1	59.0	59.1	59.0	59.1	59.0	59.1
UU3	25	42.7	58.8	58.9	60.5	60.6	59.8	59.9	58.7	58.8	58.4	58.6
UU3	30	43.4	62.2	62.3	63.2	63.3	62.9	63.0	62.2	62.3	62.1	62.1
UU3	35	43.4	62.7	62.8	63.6	63.6	63.5	63.5	62.7	62.7	62.6	62.7
UU3	40	43.2	62.5	62.5	63.4	63.4	63.2	63.2	62.4	62.4	62.6	62.6
UU3	45	44.1	62.1	62.2	63.0	63.1	62.8	62.8	62.0	62.0	62.2	62.2
UU4	20	46.9	58.0	58.4	58.0	58.4	59.2	59.4	58.2	58.5	58.0	58.3
UU4	25	57.9	58.3	61.1	58.4	61.2	59.2	61.6	58.2	61.1	58.1	61.0
UU4	30	60.2	58.3	62.4	59.3	62.8	59.2	62.7	58.2	62.3	58.1	62.3
UU4	35	61.6	58.7	63.4	59.7	63.8	59.1	63.5	58.2	63.2	58.1	63.2
UU4	40	61.7	58.6	63.4	60.1	64.0	59.1	63.6	58.2	63.3	58.1	63.3
UU4	45	61.2	58.6	63.1	60.0	63.6	59.0	63.2	58.2	63.0	58.1	62.9
VV1	1	43.5	59.9	60.0	59.5	59.6	59.6	59.7	59.7	59.9	59.5	59.6
VV1	3	43.6	61.1	61.2	60.2	60.2	60.1	60.2	60.2	60.3	60.1	60.2

VV1	5	43.3	61.1	61.2	59.8	59.9	59.7	59.8	59.8	59.9	59.6	59.7
VV1	7	42.9	61.0	61.1	59.8	59.9	59.5	59.6	59.5	59.6	59.3	59.4
VV1	10	42.7	61.4	61.5	60.5	60.5	60.1	60.2	59.9	60.0	59.7	59.8
VV1	14	45.7	62.4	62.5	62.5	62.6	62.1	62.2	61.3	61.4	61.0	61.1
VV1	18	54.5	62.3	62.9	62.8	63.4	62.6	63.2	60.9	61.8	60.8	61.7
VV2	1	41.2	58.1	58.2	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
VV2	3	41.2	58.1	58.2	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
VV2	5	41.4	58.1	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
VV2	7	41.4	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
VV2	10	39.7	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
VV2	14	39.4	58.0	58.0	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1
VV2	18	39.3	58.1	58.1	58.1	58.1	59.1	59.2	58.2	58.3	58.0	58.1
VV3	1	40.6	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
VV3	3	41.2	58.0	58.0	58.0	58.1	58.1	58.2	58.0	58.1	58.0	58.1
VV3	5	41.5	58.0	58.1	58.1	58.1	58.1	58.2	58.1	58.2	58.1	58.2
VV3	7	41.4	58.0	58.1	58.1	58.1	58.1	58.2	58.1	58.2	58.1	58.2
VV3	10	41.4	58.0	58.1	58.0	58.1	58.1	58.2	58.1	58.2	58.1	58.1
VV3	14	41.3	58.0	58.1	58.0	58.1	58.3	58.4	58.1	58.2	58.1	58.1
VV3	18	41.0	58.6	58.7	58.4	58.5	60.8	60.8	58.6	58.7	58.1	58.2
WW1	1	43.5	59.4	59.5	59.5	59.6	59.5	59.6	59.5	59.6	59.5	59.6
WW1	3	43.7	60.1	60.2	60.2	60.3	60.2	60.3	60.2	60.3	60.2	60.3
WW2	1	40.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
WW2	3	40.3	58.2	58.2	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
XX1	1	39.0	58.2	58.2	58.0	58.0	58.0	58.1	58.0	58.0	58.0	58.0
XX1	3	38.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
XX1	5	38.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
XX1	7	38.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
XX1	12	38.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
XX2	1	38.7	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
XX2	3	39.0	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
XX2	5	39.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
XX2	7	38.9	60.0	60.1	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1
XX2	12	38.3	59.4	59.5	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5
XX3	1	41.9	64.3	64.3	64.3	64.4	64.3	64.4	64.3	64.4	64.3	64.4





AAA1	5	39.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
AAA1	10	38.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
AAA1	15	37.3	63.7	63.8	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
AAA2	1	34.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
AAA2	3	34.2	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
AAA2	5	34.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
AAA2	10	34.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
AAA2	15	34.0	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
AAA3	1	38.5	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
AAA3	3	37.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
AAA3	5	37.7	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
AAA3	10	36.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
AAA3	15	34.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
BBB1	1	41.3	65.8	65.8	65.8	65.9	65.8	65.9	65.8	65.9	65.8	65.9
BBB1	3	40.8	65.1	65.1	65.1	65.2	65.1	65.2	65.1	65.2	65.1	65.2
BBB1	5	40.1	63.9	63.9	63.9	64.0	63.9	64.0	63.9	64.0	63.9	64.0
BBB1	10	39.0	62.2	62.2	62.1	62.2	62.1	62.2	62.1	62.2	62.1	62.2
BBB1	15	38.3	60.9	60.9	60.8	60.9	60.9	60.9	60.8	60.9	60.8	60.9
CCC1	1	41.9	66.1	66.1	66.1	66.2	66.1	66.2	66.1	66.2	66.1	66.2
CCC1	3	41.6	65.8	65.8	65.8	65.8	65.8	65.9	65.8	65.8	65.8	65.8
CCC1	5	41.0	64.7	64.7	64.7	64.8	64.7	64.8	64.7	64.7	64.7	64.8
CCC1	10	40.0	62.7	62.7	62.6	62.7	62.6	62.7	62.6	62.7	62.6	62.7
CCC1	15	39.3	61.2	61.2	61.1	61.2	61.1	61.2	61.1	61.2	61.1	61.2
CCC1	20	38.9	60.0	60.0	59.9	60.0	60.2	60.2	60.0	60.0	59.9	60.0
CCC1	25	39.5	59.4	59.4	59.3	59.4	59.5	59.6	59.3	59.3	59.2	59.2
CCC1	30	45.3	58.9	59.0	58.9	59.1	58.9	59.1	58.7	58.9	58.5	58.7
CCC1	36	41.4	58.7	58.8	59.0	59.0	58.6	58.7	58.3	58.4	58.2	58.3
CCC2	1	40.2	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
CCC2	3	40.6	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
CCC2	5	40.5	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
CCC2	10	40.2	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
CCC2	15	38.5	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
CCC2	20	38.3	58.0	58.1	58.0	58.0	58.5	58.6	58.1	58.1	58.0	58.0
CCC2	25	38.2	58.1	58.1	58.0	58.0	58.6	58.6	58.1	58.1	58.1	58.1



DDD3	16	38.6	60.1	60.1	60.1	60.2	60.1	60.2	60.1	60.2	60.1	60.2
EEE1	1	47.5	58.0	58.4	59.2	59.5	60.1	60.3	59.9	60.2	59.7	60.0
EEE1	3	48.5	59.5	59.8	60.6	60.9	61.4	61.6	61.2	61.5	61.0	61.3
EEE1	5	48.4	60.0	60.3	60.9	61.1	62.0	62.2	61.9	62.1	61.7	61.9
EEE1	10	49.4	60.7	61.0	60.4	60.8	62.0	62.3	61.3	61.6	61.7	61.9
EEE1	15	50.7	60.7	61.1	60.1	60.6	62.0	62.4	61.1	61.5	61.1	61.5
EEE1	20	52.5	60.7	61.3	60.2	60.9	62.2	62.7	61.1	61.7	60.9	61.5
EEE1	25	54.7	60.2	61.3	61.0	61.9	62.0	62.8	61.2	62.1	60.7	61.6
EEE1	30	58.2	60.3	62.4	61.2	63.0	61.9	63.4	61.0	62.9	60.5	62.5
EEE1	35	58.0	60.1	62.2	61.4	63.0	61.7	63.3	60.9	62.7	60.4	62.4
EEE2	1	45.5	62.3	62.4	62.2	62.3	62.2	62.3	62.3	62.4	62.2	62.3
EEE2	3	47.2	64.4	64.5	64.4	64.5	64.5	64.6	64.5	64.5	64.4	64.5
EEE2	5	47.6	64.6	64.7	64.6	64.7	64.7	64.8	64.7	64.8	64.6	64.7
EEE2	10	48.3	63.9	64.1	63.9	64.0	64.3	64.5	64.1	64.2	64.1	64.2
EEE2	15	52.2	63.5	63.8	63.7	64.0	63.8	64.1	63.6	63.9	63.0	63.4
EEE2	20	53.5	62.8	63.3	63.2	63.6	64.0	64.3	63.0	63.5	62.8	63.3
EEE2	25	57.0	61.8	63.0	62.7	63.7	63.2	64.1	62.1	63.3	61.8	63.0
EEE2	30	58.9	61.2	63.2	62.5	64.1	62.7	64.2	61.6	63.5	61.3	63.3
EEE2	35	60.2	61.0	63.6	62.4	64.5	62.5	64.5	61.4	63.8	61.0	63.6
EEE3	1	45.1	61.7	61.8	61.8	61.9	61.8	61.9	61.8	61.9	61.8	61.9
EEE3	3	47.1	63.8	63.9	63.9	64.0	63.9	64.0	63.9	64.0	63.9	64.0
EEE3	5	47.0	63.8	63.8	63.9	64.0	63.9	64.0	63.9	64.0	63.9	64.0
EEE3	10	45.9	62.7	62.8	62.7	62.8	62.7	62.8	62.7	62.8	62.7	62.8
EEE3	15	46.5	61.7	61.9	61.6	61.7	61.5	61.7	61.5	61.7	61.5	61.6
EEE3	20	45.8	60.7	60.9	60.5	60.7	60.5	60.7	60.5	60.6	60.4	60.6
EEE3	25	45.1	59.5	59.7	59.3	59.5	59.3	59.5	59.3	59.5	59.2	59.4
EEE3	30	44.3	58.8	58.9	58.7	58.8	58.7	58.8	58.6	58.8	58.5	58.7
EEE3	35	47.8	58.5	58.9	58.6	58.9	58.9	59.2	58.5	58.8	58.3	58.6
FFF1	1	48.1	59.5	59.8	59.5	59.8	59.7	60.0	59.7	60.0	59.5	59.9
FFF1	3	49.0	61.0	61.3	61.1	61.4	61.3	61.5	61.3	61.6	61.1	61.4
FFF1	5	48.8	61.0	61.2	61.1	61.4	61.6	61.8	61.6	61.8	61.7	61.9
FFF1	10	55.4	59.7	61.1	59.7	61.1	61.1	62.2	61.5	62.4	62.6	63.3
FFF1	15	56.9	60.0	61.7	59.4	61.4	61.6	62.9	61.6	62.8	62.7	63.7
FFF1	20	57.9	59.7	61.9	60.3	62.3	61.6	63.1	61.8	63.3	62.7	64.0





HHH4	39	38.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
JJJ1	7	40.1	58.0	58.0	58.0	58.1	58.6	58.7	58.3	58.4	58.0	58.1
JJJ1	10	40.1	57.9	58.0	58.0	58.1	59.0	59.0	58.7	58.7	58.0	58.1
JJJ2	1	40.8	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
JJJ2	3	40.7	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
JJJ2	5	40.8	58.0	58.0	58.0	58.1	58.1	58.2	58.1	58.2	58.0	58.1
JJJ2	7	40.8	58.0	58.0	58.0	58.1	58.5	58.6	58.4	58.4	58.0	58.1
JJJ2	10	40.6	58.0	58.0	58.0	58.1	59.1	59.1	58.8	58.9	58.0	58.1
JJJ3	1	40.4	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
JJJ3	3	40.5	58.0	58.0	58.0	58.1	58.1	58.1	58.0	58.1	58.0	58.1
JJJ3	5	40.4	58.0	58.0	58.0	58.1	58.2	58.2	58.1	58.2	58.0	58.1
JJJ3	7	40.4	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
JJJ3	10	41.6	58.0	58.1	58.1	58.1	58.1	58.2	58.1	58.2	58.1	58.2
JJJ4	1	44.9	63.9	64.0	64.0	64.1	64.0	64.1	64.0	64.1	64.0	64.1
JJJ4	3	44.5	63.4	63.5	63.5	63.6	63.5	63.6	63.5	63.6	63.5	63.6
JJJ4	5	43.8	62.5	62.6	62.6	62.7	62.6	62.7	62.6	62.7	62.6	62.7
JJJ4	7	43.3	61.9	62.0	61.8	61.9	61.8	61.9	61.8	61.9	61.8	61.9
JJJ4	10	42.6	61.1	61.2	61.0	61.1	61.1	61.1	61.0	61.1	61.0	61.1
KKK1	1	43.7	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.4	63.5
KKK1	3	43.6	63.5	63.5	63.5	63.6	63.6	63.7	63.6	63.6	63.5	63.6
KKK1	5	42.8	62.7	62.7	62.7	62.8	62.9	63.0	62.9	62.9	62.7	62.8
KKK1	7	42.1	62.2	62.2	62.1	62.2	62.4	62.4	62.3	62.3	62.1	62.2
KKK1	10	41.4	61.6	61.6	61.5	61.5	61.9	61.9	61.7	61.7	61.5	61.5
KKK1	13	40.7	61.2	61.2	61.1	61.1	61.8	61.8	61.3	61.4	61.1	61.2
KKK1	17	43.3	60.7	60.7	60.6	60.7	61.5	61.5	60.9	60.9	60.6	60.7
KKK2	1	41.3	58.1	58.2	58.1	58.2	58.1	58.2	58.1	58.2	58.1	58.2
KKK2	3	42.0	59.1	59.2	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2
KKK2	5	41.9	59.0	59.1	59.0	59.1	59.1	59.1	59.0	59.1	59.1	59.1
KKK2	7	41.7	58.5	58.6	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6
KKK2	10	41.4	58.1	58.2	58.1	58.2	58.1	58.2	58.1	58.2	58.1	58.2
KKK2	13	41.0	58.1	58.2	58.1	58.1	58.4	58.5	58.3	58.3	58.1	58.1
KKK2	17	44.5	58.1	58.3	58.0	58.2	59.0	59.1	58.3	58.5	58.0	58.2
KKK3	1	36.8	58.1	58.1	58.0	58.0	58.2	58.3	58.2	58.2	58.0	58.0
KKK3	3	37.2	58.7	58.7	58.6	58.7	58.9	59.0	58.8	58.9	58.7	58.7

KKK3	5	37.4	60.1	60.2	60.1	60.2	60.4	60.4	60.3	60.3	60.1	60.2
KKK3	7	37.4	61.3	61.3	61.3	61.3	61.5	61.5	61.4	61.5	61.3	61.3
KKK3	10	37.3	62.7	62.7	62.7	62.7	62.9	62.9	62.8	62.8	62.7	62.7
KKK3	13	37.1	63.5	63.5	63.5	63.5	63.8	63.8	63.6	63.6	63.5	63.5
KKK3	17	36.8	63.7	63.7	63.7	63.7	64.0	64.1	63.8	63.8	63.7	63.7
KKK4	1	35.8	58.0	58.0	58.0	58.0	58.1	58.1	58.0	58.0	58.0	58.0
KKK4	3	35.7	58.0	58.0	58.0	58.0	58.1	58.1	58.0	58.0	58.0	58.0
KKK4	5	35.9	58.0	58.0	58.0	58.0	58.1	58.1	58.0	58.0	58.0	58.0
KKK4	7	36.0	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
KKK4	10	36.0	59.1	59.1	59.1	59.1	59.1	59.2	59.1	59.1	59.1	59.1
KKK4	13	35.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
KKK4	17	35.7	60.6	60.6	60.6	60.6	60.8	60.8	60.7	60.7	60.6	60.6
KKK5	1	42.5	61.4	61.5	61.5	61.6	61.5	61.6	61.5	61.6	61.5	61.6
KKK5	3	43.2	62.5	62.6	62.6	62.7	62.6	62.7	62.6	62.7	62.6	62.7
KKK5	5	42.9	62.2	62.3	62.3	62.4	62.3	62.4	62.3	62.4	62.3	62.4
KKK5	10	41.8	61.0	61.1	61.0	61.1	61.1	61.1	61.0	61.1	61.0	61.1
KKK5	15	43.7	60.3	60.4	60.2	60.3	60.9	61.0	60.4	60.5	60.2	60.3
KKK5	20	43.3	59.5	59.6	59.3	59.4	60.5	60.6	59.6	59.7	59.3	59.4
KKK5	25	43.3	59.8	59.9	59.7	59.8	60.8	60.9	60.0	60.0	59.7	59.8
KKK5	30	43.7	59.7	59.8	59.7	59.8	60.7	60.8	59.9	60.0	59.6	59.7
KKK5	33	44.2	59.7	59.8	59.6	59.7	60.6	60.7	59.8	59.9	59.5	59.6
KKK6	1	38.6	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
KKK6	3	39.7	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
KKK6	5	39.8	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
KKK6	10	39.1	58.0	58.1	58.0	58.1	58.4	58.4	58.1	58.2	58.0	58.1
KKK6	15	42.1	58.1	58.2	58.1	58.2	59.2	59.3	58.4	58.5	58.1	58.2
KKK6	20	41.9	58.1	58.2	58.1	58.2	59.5	59.6	58.4	58.5	58.0	58.2
KKK6	25	41.9	59.7	59.8	59.7	59.8	60.7	60.8	59.9	60.0	59.7	59.7
KKK6	30	42.2	59.5	59.6	59.4	59.5	60.5	60.6	59.6	59.7	59.4	59.5
KKK6	33	42.7	59.4	59.5	59.4	59.5	60.4	60.5	59.5	59.6	59.3	59.4
KKK7	20	40.8	58.0	58.1	58.0	58.1	59.3	59.4	58.3	58.4	58.0	58.1
KKK7	25	40.9	62.0	62.0	61.9	62.0	62.5	62.5	62.0	62.1	61.9	62.0
KKK7	30	41.2	62.0	62.0	62.0	62.0	62.5	62.5	62.0	62.1	61.9	62.0
KKK7	33	41.6	61.9	61.9	61.9	61.9	62.4	62.4	61.9	62.0	61.8	61.9



KKK8	1	36.6	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
KKK8	3	36.8	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
KKK8	5	37.2	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
KKK8	10	37.5	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
KKK8	15	37.4	58.3	58.4	58.3	58.4	58.3	58.4	58.3	58.4	58.4	58.4
KKK8	20	37.6	59.0	59.1	59.0	59.1	59.0	59.1	59.0	59.1	59.0	59.1
KKK8	25	37.3	59.5	59.6	59.5	59.6	59.5	59.6	59.5	59.6	59.5	59.6
KKK8	30	37.2	59.7	59.7	59.7	59.8	59.7	59.8	59.7	59.8	59.7	59.8
KKK8	33	37.2	59.9	60.0	59.9	60.0	59.9	60.0	59.9	60.0	59.9	60.0
KKK9	1	38.4	58.0	58.0	58.0	58.1	58.0	58.1	58.0	58.1	58.0	58.1
KKK9	3	39.6	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
KKK9	5	39.6	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
KKK9	10	39.1	58.0	58.1	58.0	58.1	58.3	58.4	58.1	58.2	58.0	58.1
KKK9	15	42.1	58.1	58.2	58.1	58.2	59.0	59.0	58.3	58.4	58.1	58.2
KKK9	20	42.1	58.1	58.2	58.1	58.2	59.3	59.4	58.3	58.4	58.0	58.2
KKK9	25	42.6	58.1	58.2	58.1	58.2	59.3	59.4	58.3	58.4	58.1	58.2
KKK9	30	43.0	58.1	58.3	58.1	58.3	59.3	59.4	58.3	58.4	58.1	58.2
KKK9	33	43.3	58.1	58.3	58.2	58.3	59.3	59.4	58.3	58.4	58.1	58.2
KKK10	1	44.2	63.8	63.9	63.9	64.0	63.9	64.0	63.9	64.0	63.9	64.0
KKK10	3	44.8	64.6	64.7	64.7	64.8	64.7	64.8	64.7	64.8	64.7	64.8
KKK10	5	44.3	64.0	64.1	64.1	64.2	64.1	64.2	64.1	64.2	64.1	64.2
KKK10	10	43.0	62.9	62.9	62.8	62.8	62.9	62.9	62.8	62.9	62.8	62.8
KKK10	17	44.4	62.1	62.2	62.0	62.1	62.6	62.6	62.1	62.2	62.0	62.1
KKK11	1	46.5	65.9	65.9	65.9	65.9	65.9	66.0	65.9	65.9	65.9	66.0
KKK11	3	47.6	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
KKK11	5	47.3	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
KKK11	10	45.8	65.4	65.5	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
KKK11	17	45.4	63.8	63.9	63.7	63.8	64.0	64.1	63.8	63.8	63.7	63.8
LLL1	1	35.3	58.6	58.6	58.0	58.0	58.2	58.2	58.0	58.0	58.0	58.0
LLL1	3	35.3	58.4	58.4	58.0	58.0	58.2	58.2	58.0	58.0	58.0	58.0
LLL1	6	35.5	58.3	58.3	58.0	58.0	58.2	58.2	58.0	58.1	58.0	58.0
LLL2	1	34.5	57.9	58.0	58.0	58.0	58.3	58.3	58.1	58.1	58.0	58.0
LLL2	3	34.4	59.3	59.3	59.3	59.3	59.6	59.6	59.4	59.4	59.3	59.3
LLL2	6	34.4	61.7	61.7	61.7	61.7	61.9	61.9	61.8	61.8	61.7	61.7

LLL3	1	52.4	57.9	59.0	58.0	59.0	58.7	59.6	58.3	59.3	58.1	59.1
LLL3	3	49.1	59.3	59.7	59.3	59.7	59.8	60.1	59.5	59.9	59.4	59.8
LLL3	6	33.3	61.8	61.8	61.8	61.8	62.1	62.1	61.9	61.9	61.8	61.8
MMM1	1	32.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
MMM1	3	32.7	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
MMM1	5	32.7	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
MMM1	7	32.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
MMM2	1	32.0	59.1	59.1	59.1	59.1	59.3	59.3	59.2	59.2	59.1	59.1
MMM2	3	32.1	63.1	63.1	63.1	63.1	63.2	63.2	63.1	63.1	63.1	63.1
MMM2	6	32.3	65.7	65.7	65.7	65.7	65.8	65.8	65.7	65.7	65.7	65.7
MMM3	6	32.3	57.9	58.0	57.9	58.0	58.2	58.2	58.0	58.0	58.0	58.0
MMM3	6	32.5	59.5	59.5	59.5	59.5	59.7	59.7	59.6	59.6	59.5	59.5
MMM3	6	32.6	62.2	62.2	62.2	62.2	62.3	62.3	62.2	62.2	62.2	62.2
MMM4	6	40.7	58.0	58.0	58.0	58.1	58.6	58.7	58.7	58.7	58.9	58.9
MMM4	6	39.4	58.0	58.0	58.0	58.0	58.2	58.2	58.2	58.3	58.3	58.3
MMM4	6	39.0	59.2	59.3	59.2	59.3	59.4	59.5	59.4	59.5	59.4	59.5

MSK-CUNY Existing and NB Noise Levels

Noise Receptor Sites		Elevation (floor)	Governing Measurement Loc	dBA										
				ExAM Leq at Meas	ExAM L10 at Meas	Cadna ExAM Leq	Adjustment Factor at Meas Loc	Min Level (avg Meas L90)	Existing Leq	L10 Difference	Existing L10	Cadna NBAM Leq	NB Leq	NB L10
1		1	1	79.3	81.5	77.2	2.1	57.9	79.3	2.2	81.5	77.3	79.4	81.6
2		1	2	66.6	67.7	66.9	-0.3	57.9	66.6	1.1	67.7	68.2	67.9	69.0
3		1	3	64.9	66.9	66.4	-1.5	57.9	64.9	2.0	66.9	66.6	65.1	67.1
SS1		5	3			49.2	-1.5	57.9	57.9	2.0	59.9	49.5	57.9	59.9
SS1		10	3			54.6	-1.5	57.9	57.9	2.0	59.9	54.9	57.9	59.9
SS1		15	3			57.5	-1.5	57.9	57.9	2.0	59.9	57.8	57.9	59.9
SS1		20	3			57.8	-1.5	57.9	57.9	2.0	59.9	58.1	57.9	59.9
SS1		25	3			59.6	-1.5	57.9	58.1	2.0	60.1	59.8	58.3	60.3
SS1		30	3			59.7	-1.5	57.9	58.2	2.0	60.2	59.9	58.4	60.4
SS1		35	3			59.3	-1.5	57.9	57.9	2.0	59.9	59.5	58.0	60.0
SS1		40	3			59.0	-1.5	57.9	57.9	2.0	59.9	59.2	57.9	59.9
SS2		5	3			48.5	-1.5	57.9	57.9	2.0	59.9	48.9	57.9	59.9
SS2		10	3			54.3	-1.5	57.9	57.9	2.0	59.9	54.6	57.9	59.9
SS2		15	3			56.8	-1.5	57.9	57.9	2.0	59.9	57.0	57.9	59.9
SS2		20	3			59.3	-1.5	57.9	57.9	2.0	59.9	59.5	58.0	60.0
SS2		25	3			58.9	-1.5	57.9	57.9	2.0	59.9	59.1	57.9	59.9
SS2		30	3			58.8	-1.5	57.9	57.9	2.0	59.9	59.0	57.9	59.9
SS2		35	3			58.8	-1.5	57.9	57.9	2.0	59.9	59.1	57.9	59.9
SS2		40	3			58.9	-1.5	57.9	57.9	2.0	59.9	59.2	57.9	59.9
SS3		15	3			49.2	-1.5	57.9	57.9	2.0	59.9	49.3	57.9	59.9
SS3		20	3			61.6	-1.5	57.9	60.1	2.0	62.1	61.7	60.2	62.2
SS3		25	3			61.5	-1.5	57.9	60.0	2.0	62.0	61.5	60.0	62.0
SS3		30	3			61.3	-1.5	57.9	59.8	2.0	61.8	61.4	59.9	61.9
SS3		35	3			61.3	-1.5	57.9	59.8	2.0	61.8	61.4	59.9	61.9
SS3		40	3			61.4	-1.5	57.9	59.9	2.0	61.9	61.5	60.0	62.0
SS4		1	3			59.5	-1.5	57.9	58.0	2.0	60.0	59.7	58.2	60.2
SS4		3	3			61.0	-1.5	57.9	59.5	2.0	61.5	61.2	59.7	61.7
SS4		5	3			60.9	-1.5	57.9	59.4	2.0	61.4	61.1	59.6	61.6
SS4		10	3			60.0	-1.5	57.9	58.5	2.0	60.5	60.2	58.7	60.7
SS4		15	3			60.2	-1.5	57.9	58.7	2.0	60.7	60.4	58.9	60.9
SS4		20	3			60.7	-1.5	57.9	59.2	2.0	61.2	60.9	59.4	61.4
SS4		25	3			60.1	-1.5	57.9	58.6	2.0	60.6	60.2	58.7	60.7
SS4		30	3			59.5	-1.5	57.9	58.0	2.0	60.0	59.7	58.2	60.2
SS4		35	3			59.0	-1.5	57.9	57.9	2.0	59.9	59.2	57.9	59.9
SS4		40	3			58.7	-1.5	57.9	57.9	2.0	59.9	58.8	57.9	59.9
SS5		10	3			58.0	-1.5	57.9	57.9	2.0	59.9	58.3	57.9	59.9
SS5		15	3			59.7	-1.5	57.9	58.2	2.0	60.2	60.0	58.5	60.5
SS5		20	3			60.4	-1.5	57.9	58.9	2.0	60.9	60.7	59.2	61.2
SS5		25	3			60.5	-1.5	57.9	59.0	2.0	61.0	60.8	59.3	61.3
SS5		30	3			59.8	-1.5	57.9	58.3	2.0	60.3	60.1	58.6	60.6
SS5		35	3			59.3	-1.5	57.9	57.9	2.0	59.9	59.6	58.1	60.1

SS5		40		3		58.7	-1.5	57.9	57.9	2.0	59.9	59.0	57.9	59.9
EEE1		1		3		59.0	-1.5	57.9	57.9	2.0	59.9	59.3	57.9	59.9
EEE1		3		3		60.6	-1.5	57.9	59.1	2.0	61.1	60.9	59.4	61.4
EEE1		5		3		61.1	-1.5	57.9	59.6	2.0	61.6	61.4	59.9	61.9
EEE1		10		3		60.7	-1.5	57.9	59.2	2.0	61.2	61.0	59.5	61.5
EEE1		15		3		60.0	-1.5	57.9	58.5	2.0	60.5	60.3	58.8	60.8
EEE1		20		3		59.3	-1.5	57.9	57.9	2.0	59.9	59.6	58.1	60.1
EEE1		25		3		58.8	-1.5	57.9	57.9	2.0	59.9	59.1	57.9	59.9
EEE1		30		3		58.3	-1.5	57.9	57.9	2.0	59.9	58.5	57.9	59.9
EEE1		35		3		58.0	-1.5	57.9	57.9	2.0	59.9	58.2	57.9	59.9
EEE2		1		3		63.2	-1.5	57.9	61.7	2.0	63.7	63.6	62.1	64.1
EEE2		3		3		65.5	-1.5	57.9	64.0	2.0	66.0	65.8	64.3	66.3
EEE2		5		3		65.6	-1.5	57.9	64.1	2.0	66.1	66.0	64.5	66.5
EEE2		10		3		64.8	-1.5	57.9	63.3	2.0	65.3	65.1	63.6	65.6
EEE2		15		3		63.8	-1.5	57.9	62.3	2.0	64.3	64.1	62.6	64.6
EEE2		20		3		62.7	-1.5	57.9	61.2	2.0	63.2	63.1	61.6	63.6
EEE2		25		3		61.4	-1.5	57.9	59.9	2.0	61.9	61.8	60.3	62.3
EEE2		30		3		60.8	-1.5	57.9	59.3	2.0	61.3	61.1	59.6	61.6
EEE2		35		3		60.5	-1.5	57.9	59.0	2.0	61.0	60.8	59.3	61.3
EEE3		1		3		62.9	-1.5	57.9	61.4	2.0	63.4	63.1	61.6	63.6
EEE3		3		3		65.0	-1.5	57.9	63.5	2.0	65.5	65.2	63.7	65.7
EEE3		5		3		65.0	-1.5	57.9	63.5	2.0	65.5	65.2	63.7	65.7
EEE3		10		3		63.8	-1.5	57.9	62.3	2.0	64.3	64.0	62.5	64.5
EEE3		15		3		62.6	-1.5	57.9	61.1	2.0	63.1	62.8	61.3	63.3
EEE3		20		3		61.5	-1.5	57.9	60.0	2.0	62.0	61.7	60.2	62.2
EEE3		25		3		60.3	-1.5	57.9	58.8	2.0	60.8	60.5	59.0	61.0
EEE3		30		3		59.6	-1.5	57.9	58.1	2.0	60.1	59.8	58.3	60.3
EEE3		35		3		59.3	-1.5	57.9	57.9	2.0	59.9	59.5	58.0	60.0
FFF1		1		3		60.5	-1.5	57.9	59.0	2.0	61.0	60.8	59.3	61.3
FFF1		3		3		62.0	-1.5	57.9	60.5	2.0	62.5	62.4	60.9	62.9
FFF1		5		3		62.0	-1.5	57.9	60.5	2.0	62.5	62.4	60.9	62.9
FFF1		10		3		60.5	-1.5	57.9	59.0	2.0	61.0	60.9	59.4	61.4
FFF1		15		3		60.0	-1.5	57.9	58.5	2.0	60.5	60.4	58.9	60.9
FFF1		20		3		59.5	-1.5	57.9	58.0	2.0	60.0	59.9	58.4	60.4
FFF1		25		3		59.3	-1.5	57.9	57.9	2.0	59.9	59.6	58.1	60.1
FFF1		30		3		59.1	-1.5	57.9	57.9	2.0	59.9	59.4	57.9	59.9
FFF1		34		3		59.0	-1.5	57.9	57.9	2.0	59.9	59.2	57.9	59.9
FFF2		1		3		62.8	-1.5	57.9	61.3	2.0	63.3	63.2	61.7	63.7
FFF2		3		3		65.2	-1.5	57.9	63.7	2.0	65.7	65.6	64.1	66.1
FFF2		5		3		65.5	-1.5	57.9	64.0	2.0	66.0	65.8	64.3	66.3
FFF2		10		3		64.6	-1.5	57.9	63.1	2.0	65.1	65.0	63.5	65.5
FFF2		15		3		63.6	-1.5	57.9	62.1	2.0	64.1	63.9	62.4	64.4
FFF2		20		3		62.5	-1.5	57.9	61.0	2.0	63.0	62.9	61.4	63.4
FFF2		25		3		61.5	-1.5	57.9	60.0	2.0	62.0	61.8	60.3	62.3
FFF2		30		3		60.9	-1.5	57.9	59.4	2.0	61.4	61.2	59.7	61.7
FFF2		34		3		60.6	-1.5	57.9	59.1	2.0	61.1	60.9	59.4	61.4

FFF3		1		3		59.5	-1.5	57.9	58.0	2.0	60.0	59.8	58.3	60.3
FFF3		3		3		60.9	-1.5	57.9	59.4	2.0	61.4	61.3	59.8	61.8
FFF3		5		3		61.4	-1.5	57.9	59.9	2.0	61.9	61.7	60.2	62.2
FFF3		10		3		60.5	-1.5	57.9	59.0	2.0	61.0	60.8	59.3	61.3
FFF3		15		3		60.0	-1.5	57.9	58.5	2.0	60.5	60.3	58.8	60.8
FFF3		20		3		59.3	-1.5	57.9	57.9	2.0	59.9	59.6	58.1	60.1
FFF3		25		3		58.6	-1.5	57.9	57.9	2.0	59.9	58.9	57.9	59.9
FFF3		30		3		57.7	-1.5	57.9	57.9	2.0	59.9	58.0	57.9	59.9
FFF3		34		3		59.5	-1.5	57.9	58.0	2.0	60.0	59.8	58.3	60.3

MSK CUNY

Measured existing noise levels

Min L90: 57.9

SiteID	Location		L <sub>eq</sub>	L <sub>1</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>Min</sub>	L <sub>Max</sub>		Minimum L <sub>eq</sub>	Maximum L <sub>10</sub>	Average L90
1	FDR between East 73rd and East 74th Street	AM	79.3	83.7	81.5	78.9	75.5	71.1	92.9		78.7	81.6	75.4
		MD	78.7	84.0	81.4	77.5	74.5	72.4	88.2				
		PM	79.7	83.4	81.6	79.5	76.2	67.4	90.0				
2	East 74th Street between York Avenue and FDR	AM	66.6	68.6	67.7	66.5	65.4	62.8	73.6		66.4	69.0	65.3
		MD	67.5	73.0	69.0	66.9	65.5	61.6	76.1				
		PM	66.4	70.5	67.4	66.1	65.1	63.9	74.6				
3	East 73rd Street between York Avenue and FDR	AM	64.9	70.6	66.9	64.1	62.3	60.8	74.5		64.9	67.3	62.4
		MD	65.5	73.4	67.1	64.6	62.0	59.6	76.6				
		PM	65.6	71.2	67.3	64.9	62.9	61.0	80.8				

From HSS EAS

1	East 74th Street between York Avenue and FDR Drive	AM	62.7	66.4	63.9	62.4	60.9
		MD	59	63.4	60.1	58.6	57.3
		PM	60.6	70.1	62.8	57.9	55.6
2	East 73rd Street between York Avenue and FDR Drive	AM	66.9	74.2	69.1	65.2	62.9
		MD	64.9	73.1	67	62.2	58.8
		PM	64.7	72.3	67.8	63	58

59.0	63.9	57.9
64.7	69.1	59.9