Progetto: Cava Sassicheto
Ditta: Sa.Des. Costruzioni
Comune: Firenzuola
Progettista: Iacopo Parenti
Direttore dei Lavori: Iacopo Parenti
Impresa: Sa.Des. Costruzioni

Normative di riferimento

- Legge nr. 64 del 02/02/1974.
Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- D.M. LL.PP. del 11/03/1988.
Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
- D.M. 16 Gennaio 1996
Norme Tecniche per le costruzioni in zone sismiche
- Circolare Ministero LL.PP. 15 Ottobre 1996 N. 252 AA.GG./S.T.C.
Istruzioni per l'applicazione delle Norme Tecniche di cui al D.M. 9 Gennaio 1996
- Circolare Ministero LL.PP. 10 Aprile 1997 N. 65/AA.GG.
Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche di cui al D.M. 16 Gennaio 1996

- Norme Tecniche per le Costruzioni 2008 (D.M. 14 Gennaio 2008)
- Circolare 617 del 02/02/2009
Istruzioni per l'applicazione delle Nuove Norme Tecniche per le Costruzioni di cui al D.M. 14 gennaio 2008.

Descrizione metodo di calcolo

La verifica alla stabilità del pendio deve fornire un coefficiente di sicurezza non inferiore a **1.10**.
Viene usata la tecnica della suddivisione a strisce della superficie di scorrimento da analizzare.
In particolare il programma esamina un numero di superfici che dipende dalle impostazioni fornite e che sono riportate nella corrispondente sezione. Il processo iterativo permette di determinare il coefficiente di sicurezza di tutte le superfici analizzate.
Nella descrizione dei metodi di calcolo si adotterà la seguente simbologia:

l lunghezza della base della striscia
α angolo della base della striscia rispetto all'orizzontale
b larghezza della striscia b=l x cos(α)
ϕ angolo di attrito lungo la base della striscia
c coesione lungo la base della striscia
γ peso di volume del terreno
u pressione neutra
W peso della striscia
N sforzo normale alla base della striscia
T sforzo di taglio alla base della striscia
$\mathbf{E_s}$, $\mathbf{E_d}$ forze normali di interstriscia a sinistra e a destra
$\mathbf{X_s}$, $\mathbf{X_d}$ forze tangenziali di interstriscia a sinistra e a destra
$\mathbf{E_a}$, $\mathbf{E_b}$ forze normali di interstriscia alla base ed alla sommità del pendio
ΔX variazione delle forze tangenziali sulla striscia $\mathbf{\Delta X = X_d - X_s}$
ΔE variazione delle forze normali sulla striscia $\mathbf{\Delta E = E_d - E_s}$

Metodo di Janbu (semplificato)

Il coefficiente di sicurezza nel metodo di **Janbu semplificato** si esprime secondo la seguente formula:

$$F = \frac{\Sigma[\, c_i\, b_i + (N_i / \cos(\alpha_i) - u_i\, b_i)\, tg\phi_i \,]}{\Sigma_i\, [\, W_i \tan\alpha_i \,]}$$

dove il termine $\mathbf{N_i}$ è espresso da

$$N_i = [\, W_i - c_i\, l_i \sin\alpha_t / \eta + u_i\, l_i \tan\phi \sin\alpha_t / F \,] / m$$

dove il termine **m** è espresso da

$$m = \cos\alpha + (\sin\alpha \tan\phi) / F$$

In questa espressione **n** è il numero delle strisce considerate, $\mathbf{b_i}$ e $\mathbf{\alpha_i}$ sono la larghezza e l'inclinazione della base della striscia $\mathbf{i_{esima}}$ rispetto all'orizzontale, $\mathbf{W_i}$ è il peso della striscia $\mathbf{i_{esima}}$, $\mathbf{c_i}$ e $\mathbf{\phi_i}$ sono le caratteristiche del terreno (coesione ed angolo di attrito) lungo la base della striscia ed $\mathbf{u_i}$ è la pressione neutra lungo la base della striscia.

L'espressione del coefficiente di sicurezza di **Janbu semplificato** contiene al secondo membro il termine **m** che è funzione di **F**. Quindi essa viene risolta per successive approssimazioni assumendo un valore iniziale per **F** da inserire nell'espressione di **m** ed iterare finquando il valore calcolato coincide con il valore assunto.
La semplificazione del metodo rispetto al procedimento completo consiste nel trascurare le forze tangenziali di interstriscia.

Descrizione terreno

Simbologia adottata

Nr. Indice del terreno
Descrizione Descrizione terreno
γ Peso di volume del terreno espresso in kN/mc
γ_w Peso di volume saturo del terreno espresso in kN/mc
ϕ Angolo d'attrito interno 'efficace' del terreno espresso in gradi
c Coesione 'efficace' del terreno espressa in kPa
ϕ_u Angolo d'attrito interno 'totale' del terreno espresso gradi
c_u Coesione 'totale' del terreno espressa in kPa

Nr.	Descrizione	γ	γ_w	ϕ'	c'	ϕ_u	c_u
1	Detrito	18.00	21.00	48.00	8.0	0.00	39.2
2	Substrato	26.00	26.00	49.00	160.0	0.00	39.2

Profilo del piano campagna

Simbologia e convenzioni di segno adottate

L'ascissa è intesa positiva da sinistra verso destra e l'ordinata positiva verso l'alto.
Nr. Identificativo del punto
X Ascissa del punto del profilo espressa in m
Y Ordinata del punto del profilo espressa in m

Nr.	X [m]	Y [m]
1	0.00	76.36
2	6.83	75.23
3	11.38	74.53
4	14.93	73.98
5	16.62	74.09
6	18.66	74.36
7	20.41	75.23
8	23.06	77.23
9	24.73	79.23
10	27.13	81.23
11	30.92	83.23
12	35.19	85.23
13	35.48	85.39
14	38.92	87.23
15	39.09	87.34
16	39.93	87.83
17	41.92	88.99
18	42.34	89.23
19	44.21	90.47
20	45.36	91.23
21	45.59	91.36
22	46.16	91.67
23	48.17	92.77
24	49.03	93.23
25	50.46	93.93
26	52.05	94.73

27	52.58	94.99
28	53.04	95.23
29	55.69	96.70
30	56.65	97.23
31	57.22	97.59
32	58.82	98.59
33	59.58	99.06
34	59.85	99.23
35	62.15	100.41
36	63.78	101.23
37	64.83	101.73
38	66.62	102.57
39	67.49	102.99
40	68.01	103.23
41	68.12	103.32
42	68.34	103.50
43	68.63	103.75
44	68.75	103.85
45	70.54	104.73
46	72.13	106.05
47	72.44	106.20
48	72.80	106.37
49	73.43	106.55
50	73.96	106.60
51	75.18	106.77
52	75.92	107.08
53	78.43	108.17
54	82.21	108.33
55	82.95	108.35
56	84.21	108.39
57	84.84	108.74
58	87.81	109.77
59	89.94	110.09
60	90.46	110.09
61	91.61	110.08
62	93.06	110.22
63	95.72	110.55
64	95.79	111.16
65	103.99	116.69
66	107.15	117.50
67	107.44	118.28
68	112.39	121.18
69	116.46	125.54
70	116.99	126.10
71	119.01	127.87
72	119.49	128.29
73	122.34	130.86
74	125.77	130.95
75	135.15	131.22
76	135.27	131.22
77	135.28	131.22

78	135.29	131.22
79	135.34	131.22
80	136.69	131.23
81	139.49	131.25
82	141.15	138.98
83	141.53	140.79
84	141.73	140.87
85	141.88	140.94
86	142.26	141.11
87	142.99	141.43
88	146.71	143.07
89	146.76	143.12
90	146.80	143.16
91	146.84	143.19
92	146.86	143.20
93	146.88	143.22
94	146.92	143.23
95	147.88	143.23
96	148.46	143.23
97	150.82	146.21
98	152.22	148.02

Descrizione stratigrafia

Simbologia e convenzioni di segno adottate
Gli strati sono descritti mediante i punti di contorno (in senso antiorario) e l'indice del terreno di cui è costituito

Strato N° **1** costituito da terreno n° 2 (Substrato)

Coordinate dei vertici dello strato n° 1

N°	**X[m]**	**Y[m]**
1	11.38	74.53
2	6.83	75.23
3	0.00	76.36
4	0.00	0.00
5	152.22	0.00
6	152.22	148.02
7	150.82	146.21
8	148.46	143.23
9	147.88	143.23
10	146.92	143.23
11	146.88	143.22
12	146.86	143.20
13	146.84	143.19
14	146.80	143.16
15	146.76	143.12
16	146.71	143.07
17	142.99	141.43
18	142.26	141.11
19	141.88	140.94

20	141.73	140.87
21	141.53	140.79
22	141.15	138.98
23	139.49	131.25
24	136.69	131.23
25	135.34	131.22
26	135.29	131.22
27	135.28	131.22
28	135.27	131.22
29	135.15	131.22
30	125.77	130.95
31	122.34	130.86
32	119.49	128.29
33	119.01	127.87
34	116.99	126.10
35	116.46	125.54
36	112.39	121.18
37	107.44	118.28
38	107.15	117.50
39	103.99	116.69
40	95.79	111.16
41	95.72	110.55
42	94.80	109.23
43	89.17	107.23
44	83.85	105.23
45	81.43	103.23
46	78.66	101.23
47	74.43	99.23
48	71.20	97.23
49	65.37	95.23
50	63.09	93.23
51	59.79	91.23
52	56.31	89.23
53	53.87	87.23
54	49.18	85.23
55	47.48	83.23
56	40.66	81.23
57	37.56	79.23
58	35.19	75.90
59	32.02	73.12
60	24.66	70.03
61	19.27	67.70
62	18.16	67.72
63	16.48	68.57

Strato N° **2** costituito da terreno n° 1 (Detrito)

Coordinate dei vertici dello strato n° 2

N°	**X[m]**	**Y[m]**
1	95.72	110.55

2	93.06	110.22
3	91.61	110.08
4	90.46	110.09
5	89.94	110.09
6	87.81	109.77
7	84.84	108.74
8	84.21	108.39
9	82.95	108.35
10	82.21	108.33
11	78.43	108.17
12	75.92	107.08
13	75.18	106.77
14	73.96	106.60
15	73.43	106.55
16	72.80	106.37
17	72.44	106.20
18	72.13	106.05
19	70.54	104.73
20	68.75	103.85
21	68.63	103.75
22	68.34	103.50
23	68.12	103.32
24	68.01	103.23
25	67.49	102.99
26	66.62	102.57
27	64.83	101.73
28	63.78	101.23
29	62.15	100.41
30	59.85	99.23
31	59.58	99.06
32	58.82	98.59
33	57.22	97.59
34	56.65	97.23
35	55.69	96.70
36	53.04	95.23
37	52.58	94.99
38	52.05	94.73
39	50.46	93.93
40	49.03	93.23
41	48.17	92.77
42	46.16	91.67
43	45.59	91.36
44	45.36	91.23
45	44.21	90.47
46	42.34	89.23
47	41.92	88.99
48	39.93	87.83
49	39.09	87.34
50	38.92	87.23
51	35.48	85.39
52	35.19	85.23

53	30.92	83.23
54	27.13	81.23
55	24.73	79.23
56	23.06	77.23
57	20.41	75.23
58	18.66	74.36
59	16.62	74.09
60	14.93	73.98
61	11.38	74.53
62	16.48	68.57
63	18.16	67.72
64	19.27	67.70
65	24.66	70.03
66	32.02	73.12
67	35.19	75.90
68	37.56	79.23
69	40.66	81.23
70	47.48	83.23
71	49.18	85.23
72	53.87	87.23
73	56.31	89.23
74	59.79	91.23
75	63.09	93.23
76	65.37	95.23
77	71.20	97.23
78	74.43	99.23
79	78.66	101.23
80	81.43	103.23
81	83.85	105.23
82	89.17	107.23
83	94.80	109.23

Descrizione falda

Livello di falda

Nr.	X[m]	Y[m]
1	0.00	76.00
2	16.00	72.00
3	18.00	72.00
4	20.00	72.00
5	24.00	74.00
6	36.00	80.00
7	60.00	94.00
8	78.00	104.00
9	90.46	109.09
10	152.22	112.00

Risultati analisi

Per l'analisi sono stati utilizzati i seguenti metodi di calcolo :
Metodo di JANBU (J)

Impostazioni analisi
Normativa :
Norme Tecniche sulle Costruzioni 14/01/2008

Coefficienti di partecipazione caso statico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.30	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.50	1.30

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Coefficienti di partecipazione caso sismico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.00	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.00	1.00

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Sisma

Accelerazione al suolo a_g =	1.943 [m/s^2]
Coefficiente di amplificazione per tipo di sottosuolo (Ss)	1.20
Coefficiente di amplificazione topografica (St)	1.04
Coefficiente riduzione (β_s)	0.24
Rapporto intensità sismica verticale/orizzontale	0.50
Coefficiente di intensità sismica orizzontale (percento)	$k_h=(a_g/g*\beta_s*St*S)$ = 5.93
Coefficiente di intensità sismica verticale (percento)	$k_v=0.50 * k_h$ = 2.97
Coefficiente di sicurezza richiesto	1.10

Le superfici sono state analizzate per i casi: [PC] [A2M2]
Sisma verticale: verso il basso - verso l'alto
Analisi condotta in termini di tensioni efficaci
Presenza di falda

Impostazioni delle superfici di rottura

Si considerano delle superfici di rottura circolari generate tramite la seguente maglia dei centri

Origine maglia [m]:	X_0 = 98.00	Y_0 = 122.00
Passo maglia [m]:	dX = 5.00	dY = 5.00
Numero passi :	Nx = 11	Ny = 10
Raggio [m]:	R = 3.00	

Si utilizza un raggio variabile con passo dR=3.00 [m] ed un numero di incrementi pari a 10

Sono state escluse dall'analisi le superfici aventi:
- lunghezza di corda inferiore a 1.00 m
- freccia inferiore a 0.50 m
- volume inferiore a 2.00 mc

Numero di superfici analizzate	1100
Coefficiente di sicurezza minimo	2.808
Superficie con coefficiente di sicurezza minimo	1

Quadro sintetico coefficienti di sicurezza

Metodo	Nr. superfici	FS_{min}	S_{min}	FS_{max}	S_{max}
JANBU	1100	2.808	1	-12.350	1104

Caratteristiche delle superfici analizzate

Simbologia adottata

Le ascisse X sono considerate positive verso monte
Le ordinate Y sono considerate positive verso l'alto

N°	numero d'ordine della superficie cerchio
C_x	ascissa x del centro [m]
C_y	ordinata y del centro [m]
R	raggio del cerchio espresso in m
x_v, y_v	ascissa e ordinata del punto di intersezione con il profilo (valle) espresse in m
x_m, y_m	ascissa e ordinata del punto di intersezione con il profilo (monte) espresse in m
V	volume interessato dalla superficie espresso [cmq]
C_s	coefficiente di sicurezza
caso	caso di calcolo

N°	C_x	C_y	R	x_v	y_v	x_m	y_m	V	C_s	caso
1	98.00	127.00	30.00	75.66	106.97	127.73	131.01	780.20	2.808 (J)	[A2M2]
2	98.00	127.00	30.00	75.66	106.97	127.73	131.01	780.20	2.822 (J)	[A2M2]
3	98.00	127.00	27.00	78.64	108.18	124.71	130.92	563.98	2.827 (J)	[A2M2]
4	103.00	127.00	24.00	86.70	109.38	126.67	130.98	487.20	2.836 (J)	[A2M2]
5	98.00	127.00	27.00	78.64	108.18	124.71	130.92	563.98	2.855 (J)	[A2M2]
6	103.00	127.00	27.00	83.46	108.37	129.69	131.06	677.67	2.855 (J)	[A2M2]
7	103.00	127.00	24.00	86.70	109.38	126.67	130.98	487.20	2.870 (J)	[A2M2]
8	103.00	127.00	27.00	83.46	108.37	129.69	131.06	677.67	2.876 (J)	[A2M2]
9	103.00	127.00	21.00	90.55	110.09	123.64	130.89	322.20	2.878 (J)	[A2M2]
10	103.00	127.00	30.00	79.61	108.22	132.71	131.15	896.80	2.908 (J)	[A2M2]
11	98.00	132.00	30.00	79.71	108.22	127.98	131.01	527.30	2.910 (J)	[A2M2]
12	103.00	137.00	30.00	89.79	110.07	132.42	131.14	414.31	2.912 (J)	[A2M2]
13	103.00	127.00	30.00	79.61	108.22	132.71	131.15	896.80	2.918 (J)	[A2M2]
14	103.00	127.00	21.00	90.55	110.09	123.64	130.89	322.20	2.928 (J)	[A2M2]
15	98.00	137.00	30.00	86.47	109.30	127.39	131.00	308.24	2.940 (J)	[A2M2]
16	103.00	132.00	30.00	84.38	108.48	132.99	131.16	640.85	2.952 (J)	[A2M2]
17	98.00	132.00	30.00	79.71	108.22	127.98	131.01	527.30	2.958 (J)	[A2M2]
18	98.00	127.00	24.00	82.90	108.35	121.77	130.34	376.45	2.964 (J)	[A2M2]
19	103.00	132.00	27.00	87.72	109.74	129.98	131.07	456.10	2.967 (J)	[A2M2]
20	103.00	137.00	30.00	89.79	110.07	132.42	131.14	414.31	2.968 (J)	[A2M2]
21	103.00	132.00	30.00	84.38	108.48	132.99	131.16	640.85	2.990 (J)	[A2M2]
22	98.00	137.00	30.00	86.47	109.30	127.39	131.00	308.24	3.010 (J)	[A2M2]
23	98.00	127.00	24.00	82.90	108.35	121.77	130.34	376.45	3.011 (J)	[A2M2]
24	108.00	127.00	24.00	90.97	110.09	131.64	131.12	592.35	3.014 (J)	[A2M2]
25	103.00	132.00	27.00	87.72	109.74	129.98	131.07	456.10	3.022 (J)	[A2M2]
26	108.00	127.00	24.00	90.97	110.09	131.64	131.12	592.35	3.041 (J)	[A2M2]
27	98.00	132.00	27.00	84.56	108.58	124.98	130.93	345.80	3.047 (J)	[A2M2]
28	108.00	127.00	21.00	95.05	110.47	128.61	131.03	425.60	3.057 (J)	[A2M2]
29	108.00	127.00	27.00	87.35	109.61	134.67	131.21	788.36	3.061 (J)	[A2M2]
30	103.00	132.00	24.00	92.94	110.21	126.98	130.98	300.61	3.073 (J)	[A2M2]
31	108.00	127.00	27.00	87.35	109.61	134.67	131.21	788.36	3.077 (J)	[A2M2]
32	103.00	137.00	27.00	95.77	110.99	129.34	131.05	268.56	3.080 (J)	[A2M2]
33	108.00	127.00	21.00	95.05	110.47	128.61	131.03	425.60	3.097 (J)	[A2M2]

34	98.00	122.00	30.00	72.48	106.22	126.63	130.97	1032.48	3.105 (J) [A2M2]
35	98.00	122.00	30.00	72.48	106.22	126.63	130.97	1032.48	3.116 (J) [A2M2]
36	98.00	132.00	27.00	84.56	108.58	124.98	130.93	345.80	3.117 (J) [A2M2]
37	118.00	137.00	30.00	99.31	113.53	147.35	143.23	787.13	3.118 (J) [A2M2]
38	108.00	127.00	30.00	84.39	108.49	137.70	131.24	1012.40	3.124 (J) [A2M2]
39	108.00	127.00	30.00	84.39	108.49	137.70	131.24	1012.40	3.131 (J) [A2M2]
40	108.00	137.00	30.00	94.20	110.36	137.44	131.24	520.19	3.132 (J) [A2M2]
41	118.00	137.00	30.00	99.31	113.53	147.35	143.23	787.13	3.148 (J) [A2M2]
42	103.00	132.00	24.00	92.94	110.21	126.98	130.98	300.61	3.149 (J) [A2M2]
43	108.00	132.00	30.00	87.85	109.78	137.99	131.24	753.62	3.150 (J) [A2M2]
44	138.00	142.00	12.00	132.86	131.15	149.68	144.77	92.34	3.150 (J) [A2M2]
45	108.00	132.00	27.00	92.16	110.13	134.99	131.22	561.17	3.152 (J) [A2M2]
46	103.00	137.00	27.00	95.77	110.99	129.34	131.05	268.56	3.156 (J) [A2M2]
47	98.00	122.00	27.00	75.59	106.94	123.49	130.89	784.72	3.164 (J) [A2M2]
48	98.00	122.00	27.00	75.59	106.94	123.49	130.89	784.72	3.168 (J) [A2M2]
49	108.00	127.00	18.00	97.55	112.35	125.56	130.94	283.95	3.180 (J) [A2M2]
50	108.00	137.00	30.00	94.20	110.36	137.44	131.24	520.19	3.181 (J) [A2M2]
51	103.00	142.00	30.00	97.73	112.47	130.95	131.10	229.13	3.181 (J) [A2M2]
52	108.00	132.00	30.00	87.85	109.78	137.99	131.24	753.62	3.183 (J) [A2M2]
53	108.00	132.00	27.00	92.16	110.13	134.99	131.22	561.17	3.199 (J) [A2M2]
54	113.00	137.00	30.00	96.73	111.79	142.69	141.30	642.38	3.199 (J) [A2M2]
55	138.00	142.00	9.00	139.91	133.20	146.92	143.23	38.19	3.203 (J) [A2M2]
56	113.00	132.00	30.00	92.43	110.16	141.67	140.84	865.40	3.207 (J) [A2M2]
57	98.00	122.00	24.00	78.40	108.16	120.81	129.48	571.03	3.219 (J) [A2M2]
58	113.00	132.00	30.00	92.43	110.16	141.67	140.84	865.40	3.221 (J) [A2M2]
59	98.00	122.00	24.00	78.40	108.16	120.81	129.48	571.03	3.230 (J) [A2M2]
60	108.00	127.00	18.00	97.55	112.35	125.56	130.94	283.95	3.237 (J) [A2M2]
61	113.00	137.00	30.00	96.73	111.79	142.69	141.30	642.38	3.241 (J) [A2M2]
62	138.00	142.00	12.00	132.86	131.15	149.68	144.77	92.34	3.246 (J) [A2M2]
63	118.00	142.00	30.00	103.00	116.02	147.97	143.23	558.73	3.248 (J) [A2M2]
64	103.00	122.00	27.00	79.78	108.23	128.45	131.03	899.18	3.249 (J) [A2M2]
65	108.00	137.00	27.00	97.33	112.20	134.37	131.20	366.23	3.250 (J) [A2M2]
66	103.00	122.00	27.00	79.78	108.23	128.45	131.03	899.18	3.254 (J) [A2M2]
67	103.00	122.00	30.00	76.77	107.45	131.58	131.12	1152.19	3.263 (J) [A2M2]
68	103.00	142.00	30.00	97.73	112.47	130.95	131.10	229.13	3.264 (J) [A2M2]
69	103.00	122.00	24.00	83.25	108.36	125.27	130.94	673.38	3.274 (J) [A2M2]
70	103.00	122.00	30.00	76.77	107.45	131.58	131.12	1152.19	3.278 (J) [A2M2]
71	98.00	122.00	21.00	82.06	108.32	118.33	127.27	391.55	3.278 (J) [A2M2]
72	108.00	132.00	24.00	95.93	111.26	131.98	131.13	401.48	3.279 (J) [A2M2]
73	103.00	122.00	24.00	83.25	108.36	125.27	130.94	673.38	3.279 (J) [A2M2]
74	103.00	127.00	18.00	95.70	110.55	120.83	129.49	190.04	3.293 (J) [A2M2]
75	123.00	142.00	27.00	108.77	119.06	149.84	144.97	505.37	3.293 (J) [A2M2]
76	118.00	142.00	30.00	103.00	116.02	147.97	143.23	558.73	3.307 (J) [A2M2]
77	98.00	122.00	21.00	82.06	108.32	118.33	127.27	391.55	3.310 (J) [A2M2]
78	108.00	137.00	27.00	97.33	112.20	134.37	131.20	366.23	3.315 (J) [A2M2]
79	108.00	137.00	24.00	100.37	114.25	131.27	131.11	236.04	3.323 (J) [A2M2]
80	108.00	142.00	30.00	99.06	113.36	136.00	131.22	320.54	3.325 (J) [A2M2]
81	98.00	137.00	27.00	93.86	110.32	124.30	130.91	166.47	3.328 (J) [A2M2]
82	138.00	142.00	9.00	139.91	133.20	146.92	143.23	38.19	3.332 (J) [A2M2]
83	123.00	137.00	30.00	102.14	115.44	151.33	146.87	921.54	3.341 (J) [A2M2]
84	108.00	132.00	24.00	95.93	111.26	131.98	131.13	401.48	3.344 (J) [A2M2]

85	123.00	142.00	27.00	108.77	119.06	149.84	144.97	505.37	3.347 (J) [A2M2]
86	108.00	127.00	15.00	100.24	114.16	122.49	130.86	165.71	3.352 (J) [A2M2]
87	118.00	137.00	27.00	101.93	115.30	144.51	142.10	581.56	3.357 (J) [A2M2]
88	123.00	137.00	30.00	102.14	115.44	151.33	146.87	921.54	3.362 (J) [A2M2]
89	103.00	122.00	18.00	89.55	110.03	119.77	128.54	320.37	3.368 (J) [A2M2]
90	103.00	127.00	18.00	95.70	110.55	120.83	129.49	190.04	3.376 (J) [A2M2]
91	108.00	132.00	21.00	98.74	113.15	128.98	131.04	266.17	3.377 (J) [A2M2]
92	108.00	142.00	30.00	99.06	113.36	136.00	131.22	320.54	3.393 (J) [A2M2]
93	103.00	122.00	21.00	86.31	109.25	122.13	130.67	476.09	3.393 (J) [A2M2]
94	123.00	137.00	27.00	104.94	116.93	149.08	144.01	710.54	3.395 (J) [A2M2]
95	103.00	137.00	24.00	99.01	113.33	126.23	130.96	149.92	3.396 (J) [A2M2]
96	118.00	137.00	27.00	101.93	115.30	144.51	142.10	581.56	3.401 (J) [A2M2]
97	103.00	122.00	18.00	89.55	110.03	119.77	128.54	320.37	3.404 (J) [A2M2]
98	108.00	137.00	24.00	100.37	114.25	131.27	131.11	236.04	3.405 (J) [A2M2]
99	103.00	122.00	21.00	86.31	109.25	122.13	130.67	476.09	3.409 (J) [A2M2]
100	118.00	132.00	30.00	96.17	111.42	146.00	142.76	1008.39	3.419 (J) [A2M2]
101	113.00	127.00	27.00	91.93	110.11	139.59	131.70	893.68	3.420 (J) [A2M2]
102	118.00	132.00	30.00	96.17	111.42	146.00	142.76	1008.39	3.427 (J) [A2M2]
103	123.00	137.00	27.00	104.94	116.93	149.08	144.01	710.54	3.427 (J) [A2M2]
104	108.00	127.00	15.00	100.24	114.16	122.49	130.86	165.71	3.429 (J) [A2M2]
105	113.00	127.00	27.00	91.93	110.11	139.59	131.70	893.68	3.431 (J) [A2M2]
106	98.00	137.00	27.00	93.86	110.32	124.30	130.91	166.47	3.435 (J) [A2M2]
107	138.00	142.00	15.00	127.79	131.01	151.91	147.62	186.97	3.445 (J) [A2M2]
108	108.00	132.00	21.00	98.74	113.15	128.98	131.04	266.17	3.462 (J) [A2M2]
109	108.00	142.00	27.00	102.37	115.59	132.72	131.15	197.52	3.466 (J) [A2M2]
110	128.00	142.00	24.00	113.78	122.67	151.46	147.04	452.16	3.467 (J) [A2M2]
111	113.00	127.00	24.00	95.54	110.53	136.62	131.23	697.32	3.487 (J) [A2M2]
112	103.00	132.00	21.00	96.90	111.91	123.97	130.90	174.00	3.492 (J) [A2M2]
113	98.00	142.00	30.00	97.06	112.01	125.89	130.95	135.11	3.497 (J) [A2M2]
114	103.00	137.00	24.00	99.01	113.33	126.23	130.96	149.92	3.504 (J) [A2M2]
115	98.00	127.00	30.00	75.66	106.97	127.73	131.01	780.20	3.510 (J) [PC]
116	113.00	127.00	24.00	95.54	110.53	136.62	131.23	697.32	3.510 (J) [A2M2]
117	108.00	122.00	30.00	81.31	108.29	136.55	131.23	1267.88	3.514 (J) [A2M2]
118	108.00	122.00	27.00	84.57	108.59	133.40	131.17	1012.13	3.514 (J) [A2M2]
119	128.00	142.00	24.00	113.78	122.67	151.46	147.04	452.16	3.517 (J) [A2M2]
120	138.00	142.00	15.00	127.79	131.01	151.91	147.62	186.97	3.518 (J) [A2M2]
121	118.00	147.00	30.00	108.11	118.68	147.76	143.23	348.13	3.522 (J) [A2M2]
122	108.00	122.00	27.00	84.57	108.59	133.40	131.17	1012.13	3.524 (J) [A2M2]
123	98.00	132.00	24.00	88.65	109.90	121.95	130.51	194.69	3.525 (J) [A2M2]
124	108.00	122.00	24.00	87.43	109.64	130.22	131.08	783.25	3.525 (J) [A2M2]
125	108.00	122.00	24.00	87.43	109.64	130.22	131.08	783.25	3.527 (J) [A2M2]
126	98.00	127.00	30.00	75.66	106.97	127.73	131.01	780.20	3.528 (J) [PC]
127	113.00	127.00	12.00	106.05	117.22	124.34	130.91	140.50	3.531 (J) [A2M2]
128	108.00	122.00	30.00	81.31	108.29	136.55	131.23	1267.88	3.532 (J) [A2M2]
129	98.00	127.00	27.00	78.64	108.18	124.71	130.92	563.98	3.534 (J) [PC]
130	98.00	127.00	21.00	86.61	109.36	118.98	127.85	222.52	3.536 (J) [A2M2]
131	103.00	127.00	24.00	86.70	109.38	126.67	130.98	487.20	3.545 (J) [PC]
132	113.00	132.00	27.00	95.81	111.18	139.96	133.44	667.52	3.546 (J) [A2M2]
133	103.00	122.00	15.00	93.63	110.29	117.34	126.41	195.08	3.547 (J) [A2M2]
134	108.00	137.00	21.00	103.64	116.46	128.13	131.02	130.07	3.547 (J) [A2M2]
135	108.00	142.00	27.00	102.37	115.59	132.72	131.15	197.52	3.555 (J) [A2M2]

136	113.00	127.00	30.00	88.38	109.86	140.93	137.95	1105.81	3.557 (J)	[A2M2]
137	113.00	127.00	30.00	88.38	109.86	140.93	137.95	1105.81	3.565 (J)	[A2M2]
138	123.00	137.00	24.00	107.75	118.46	146.27	142.88	520.50	3.567 (J)	[A2M2]
139	98.00	127.00	27.00	78.64	108.18	124.71	130.92	563.98	3.569 (J)	[PC]
140	103.00	127.00	27.00	83.46	108.37	129.69	131.06	677.67	3.569 (J)	[PC]
141	98.00	122.00	18.00	85.56	108.99	115.78	124.81	243.46	3.570 (J)	[A2M2]
142	113.00	127.00	21.00	97.80	112.51	133.58	131.17	522.95	3.570 (J)	[A2M2]
143	108.00	122.00	21.00	90.71	110.09	126.98	130.98	579.45	3.584 (J)	[A2M2]
144	108.00	132.00	18.00	101.69	115.14	125.97	130.96	154.70	3.585 (J)	[A2M2]
145	103.00	127.00	24.00	86.70	109.38	126.67	130.98	487.20	3.587 (J)	[PC]
146	113.00	132.00	27.00	95.81	111.18	139.96	133.44	667.52	3.588 (J)	[A2M2]
147	113.00	127.00	15.00	102.87	115.94	127.46	131.00	244.58	3.590 (J)	[A2M2]
148	103.00	142.00	27.00	101.54	115.04	127.66	131.00	118.53	3.591 (J)	[A2M2]
149	108.00	122.00	21.00	90.71	110.09	126.98	130.98	579.45	3.593 (J)	[A2M2]
150	103.00	127.00	27.00	83.46	108.37	129.69	131.06	677.67	3.595 (J)	[PC]
151	103.00	127.00	21.00	90.55	110.09	123.64	130.89	322.20	3.598 (J)	[PC]
152	103.00	132.00	21.00	96.90	111.91	123.97	130.90	174.00	3.604 (J)	[A2M2]
153	118.00	147.00	30.00	108.11	118.68	147.76	143.23	348.13	3.606 (J)	[A2M2]
154	113.00	127.00	21.00	97.80	112.51	133.58	131.17	522.95	3.607 (J)	[A2M2]
155	113.00	127.00	12.00	106.05	117.22	124.34	130.91	140.50	3.607 (J)	[A2M2]
156	123.00	137.00	24.00	107.75	118.46	146.27	142.88	520.50	3.610 (J)	[A2M2]
157	103.00	122.00	15.00	93.63	110.29	117.34	126.41	195.08	3.611 (J)	[A2M2]
158	98.00	142.00	30.00	97.06	112.01	125.89	130.95	135.11	3.614 (J)	[A2M2]
159	113.00	127.00	18.00	100.33	114.22	130.53	131.09	372.34	3.619 (J)	[A2M2]
160	98.00	127.00	21.00	86.61	109.36	118.98	127.85	222.52	3.629 (J)	[A2M2]
161	113.00	137.00	27.00	99.46	113.64	139.38	131.25	456.90	3.634 (J)	[A2M2]
162	103.00	127.00	30.00	79.61	108.22	132.71	131.15	896.80	3.634 (J)	[PC]
163	98.00	122.00	18.00	85.56	108.99	115.78	124.81	243.46	3.635 (J)	[A2M2]
164	98.00	132.00	24.00	88.65	109.90	121.95	130.51	194.69	3.636 (J)	[A2M2]
165	98.00	132.00	30.00	79.71	108.22	127.98	131.01	527.30	3.638 (J)	[PC]
166	103.00	137.00	30.00	89.79	110.07	132.42	131.14	414.31	3.640 (J)	[PC]
167	103.00	127.00	30.00	79.61	108.22	132.71	131.15	896.80	3.648 (J)	[PC]
168	113.00	137.00	24.00	102.27	115.53	136.30	131.23	317.62	3.650 (J)	[A2M2]
169	113.00	127.00	15.00	102.87	115.94	127.46	131.00	244.58	3.652 (J)	[A2M2]
170	108.00	137.00	21.00	103.64	116.46	128.13	131.02	130.07	3.659 (J)	[A2M2]
171	103.00	127.00	21.00	90.55	110.09	123.64	130.89	322.20	3.660 (J)	[PC]
172	113.00	127.00	18.00	100.33	114.22	130.53	131.09	372.34	3.669 (J)	[A2M2]
173	113.00	137.00	21.00	105.99	117.20	133.17	131.16	201.08	3.671 (J)	[A2M2]
174	118.00	132.00	27.00	98.70	113.12	143.26	141.55	781.20	3.674 (J)	[A2M2]
175	98.00	137.00	30.00	86.47	109.30	127.39	131.00	308.24	3.675 (J)	[PC]
176	103.00	132.00	30.00	84.38	108.48	132.99	131.16	640.85	3.690 (J)	[PC]
177	113.00	137.00	27.00	99.46	113.64	139.38	131.25	456.90	3.692 (J)	[A2M2]
178	118.00	132.00	27.00	98.70	113.12	143.26	141.55	781.20	3.694 (J)	[A2M2]
179	113.00	132.00	24.00	98.42	112.93	136.99	131.23	499.11	3.694 (J)	[A2M2]
180	98.00	132.00	30.00	79.71	108.22	127.98	131.01	527.30	3.697 (J)	[PC]
181	108.00	132.00	18.00	101.69	115.14	125.97	130.96	154.70	3.700 (J)	[A2M2]
182	108.00	147.00	30.00	105.58	117.10	133.48	131.17	155.85	3.701 (J)	[A2M2]
183	98.00	127.00	24.00	82.90	108.35	121.77	130.34	376.45	3.704 (J)	[PC]
184	103.00	132.00	27.00	87.72	109.74	129.98	131.07	456.10	3.709 (J)	[PC]
185	103.00	137.00	30.00	89.79	110.07	132.42	131.14	414.31	3.709 (J)	[PC]
186	103.00	142.00	27.00	101.54	115.04	127.66	131.00	118.53	3.711 (J)	[A2M2]

187	113.00	137.00	24.00	102.27	115.53	136.30	131.23	317.62	3.722 (J)	[A2M2]
188	118.00	142.00	27.00	106.83	117.42	145.00	142.32	378.45	3.732 (J)	[A2M2]
189	133.00	147.00	15.00	140.03	133.75	147.52	143.23	30.08	3.735 (J)	[A2M2]
190	113.00	132.00	21.00	101.07	114.72	133.98	131.19	351.97	3.737 (J)	[A2M2]
191	103.00	132.00	30.00	84.38	108.48	132.99	131.16	640.85	3.738 (J)	[PC]
192	108.00	142.00	24.00	107.34	118.01	129.36	131.05	101.51	3.752 (J)	[A2M2]
193	113.00	132.00	24.00	98.42	112.93	136.99	131.23	499.11	3.755 (J)	[A2M2]
194	113.00	132.00	18.00	103.77	116.54	130.98	131.10	230.02	3.755 (J)	[A2M2]
195	113.00	137.00	21.00	105.99	117.20	133.17	131.16	201.08	3.760 (J)	[A2M2]
196	98.00	137.00	30.00	86.47	109.30	127.39	131.00	308.24	3.763 (J)	[PC]
197	98.00	127.00	24.00	82.90	108.35	121.77	130.34	376.45	3.764 (J)	[PC]
198	113.00	142.00	27.00	103.85	116.60	137.76	131.24	273.19	3.764 (J)	[A2M2]
199	123.00	142.00	24.00	111.75	120.80	146.97	143.23	340.79	3.765 (J)	[A2M2]
200	113.00	142.00	30.00	100.85	114.57	142.99	141.43	422.91	3.765 (J)	[A2M2]
201	108.00	127.00	24.00	90.97	110.09	131.64	131.12	592.35	3.767 (J)	[PC]
202	103.00	132.00	27.00	87.72	109.74	129.98	131.07	456.10	3.777 (J)	[PC]
203	123.00	147.00	27.00	113.06	121.90	149.93	145.09	310.83	3.793 (J)	[A2M2]
204	108.00	127.00	24.00	90.97	110.09	131.64	131.12	592.35	3.801 (J)	[PC]
205	108.00	147.00	30.00	105.58	117.10	133.48	131.17	155.85	3.802 (J)	[A2M2]
206	143.00	142.00	9.00	139.98	133.52	150.90	146.31	88.02	3.802 (J)	[A2M2]
207	98.00	132.00	27.00	84.56	108.58	124.98	130.93	345.80	3.809 (J)	[PC]
208	113.00	132.00	21.00	101.07	114.72	133.98	131.19	351.97	3.812 (J)	[A2M2]
209	118.00	142.00	27.00	106.83	117.42	145.00	142.32	378.45	3.817 (J)	[A2M2]
210	108.00	127.00	21.00	95.05	110.47	128.61	131.03	425.60	3.821 (J)	[PC]
211	108.00	127.00	27.00	87.35	109.61	134.67	131.21	788.36	3.826 (J)	[PC]
212	113.00	142.00	27.00	103.85	116.60	137.76	131.24	273.19	3.841 (J)	[A2M2]
213	103.00	132.00	24.00	92.94	110.21	126.98	130.98	300.61	3.842 (J)	[PC]
214	113.00	132.00	15.00	107.37	118.10	127.97	131.01	133.15	3.842 (J)	[A2M2]
215	108.00	127.00	27.00	87.35	109.61	134.67	131.21	788.36	3.846 (J)	[PC]
216	123.00	142.00	24.00	111.75	120.80	146.97	143.23	340.79	3.848 (J)	[A2M2]
217	103.00	137.00	27.00	95.77	110.99	129.34	131.05	268.56	3.849 (J)	[PC]
218	113.00	132.00	18.00	103.77	116.54	130.98	131.10	230.02	3.850 (J)	[A2M2]
219	113.00	142.00	30.00	100.85	114.57	142.99	141.43	422.91	3.855 (J)	[A2M2]
220	108.00	127.00	21.00	95.05	110.47	128.61	131.03	425.60	3.872 (J)	[PC]
221	143.00	142.00	9.00	139.98	133.52	150.90	146.31	88.02	3.874 (J)	[A2M2]
222	108.00	142.00	24.00	107.34	118.01	129.36	131.05	101.51	3.874 (J)	[A2M2]
223	113.00	127.00	9.00	108.77	119.06	121.46	130.07	63.45	3.875 (J)	[A2M2]
224	118.00	137.00	24.00	104.86	116.91	141.69	140.85	403.09	3.880 (J)	[A2M2]
225	98.00	122.00	30.00	72.48	106.22	126.63	130.97	1032.48	3.881 (J)	[PC]
226	123.00	147.00	27.00	113.06	121.90	149.93	145.09	310.83	3.889 (J)	[A2M2]
227	108.00	122.00	18.00	94.26	110.37	123.65	130.89	402.42	3.891 (J)	[A2M2]
228	98.00	122.00	30.00	72.48	106.22	126.63	130.97	1032.48	3.895 (J)	[PC]
229	98.00	132.00	27.00	84.56	108.58	124.98	130.93	345.80	3.896 (J)	[PC]
230	113.00	137.00	18.00	109.32	119.38	130.00	131.07	111.32	3.897 (J)	[A2M2]
231	118.00	137.00	30.00	99.31	113.53	147.35	143.23	787.13	3.897 (J)	[PC]
232	108.00	127.00	30.00	84.39	108.49	137.70	131.24	1012.40	3.905 (J)	[PC]
233	133.00	147.00	15.00	140.03	133.75	147.52	143.23	30.08	3.907 (J)	[A2M2]
234	128.00	137.00	24.00	110.81	120.25	150.38	145.66	630.29	3.912 (J)	[A2M2]
235	108.00	122.00	18.00	94.26	110.37	123.65	130.89	402.42	3.913 (J)	[A2M2]
236	108.00	127.00	30.00	84.39	108.49	137.70	131.24	1012.40	3.913 (J)	[PC]
237	108.00	137.00	30.00	94.20	110.36	137.44	131.24	520.19	3.916 (J)	[PC]

238	103.00	147.00	30.00	105.66	117.12	128.39	131.03	85.64	3.916 (J)	[A2M2]
239	128.00	147.00	24.00	116.72	125.82	151.99	147.72	272.07	3.917 (J)	[A2M2]
240	123.00	132.00	30.00	99.34	113.55	149.97	145.14	1139.71	3.920 (J)	[A2M2]
241	123.00	132.00	30.00	99.34	113.55	149.97	145.14	1139.71	3.921 (J)	[A2M2]
242	113.00	142.00	24.00	107.90	118.55	134.43	131.20	165.93	3.925 (J)	[A2M2]
243	113.00	122.00	27.00	88.85	109.93	138.37	131.24	1121.70	3.927 (J)	[A2M2]
244	118.00	137.00	30.00	99.31	113.53	147.35	143.23	787.13	3.935 (J)	[PC]
245	103.00	132.00	24.00	92.94	110.21	126.98	130.98	300.61	3.937 (J)	[PC]
246	108.00	132.00	30.00	87.85	109.78	137.99	131.24	753.62	3.937 (J)	[PC]
247	138.00	142.00	12.00	132.86	131.15	149.68	144.77	92.34	3.937 (J)	[PC]
248	108.00	132.00	27.00	92.16	110.13	134.99	131.22	561.17	3.940 (J)	[PC]
249	128.00	137.00	24.00	110.81	120.25	150.38	145.66	630.29	3.943 (J)	[A2M2]
250	113.00	122.00	27.00	88.85	109.93	138.37	131.24	1121.70	3.944 (J)	[A2M2]
251	103.00	137.00	27.00	95.77	110.99	129.34	131.05	268.56	3.945 (J)	[PC]
252	118.00	137.00	24.00	104.86	116.91	141.69	140.85	403.09	3.946 (J)	[A2M2]
253	113.00	147.00	30.00	107.18	117.57	138.53	131.24	225.33	3.955 (J)	[A2M2]
254	98.00	122.00	27.00	75.59	106.94	123.49	130.89	784.72	3.955 (J)	[PC]
255	98.00	122.00	27.00	75.59	106.94	123.49	130.89	784.72	3.959 (J)	[PC]
256	113.00	132.00	15.00	107.37	118.10	127.97	131.01	133.15	3.961 (J)	[A2M2]
257	118.00	132.00	24.00	101.23	114.83	141.07	138.61	588.36	3.968 (J)	[A2M2]
258	108.00	127.00	18.00	97.55	112.35	125.56	130.94	283.95	3.974 (J)	[PC]
259	108.00	137.00	30.00	94.20	110.36	137.44	131.24	520.19	3.976 (J)	[PC]
260	103.00	142.00	30.00	97.73	112.47	130.95	131.10	229.13	3.977 (J)	[PC]
261	108.00	132.00	30.00	87.85	109.78	137.99	131.24	753.62	3.979 (J)	[PC]
262	113.00	127.00	9.00	108.77	119.06	121.46	130.07	63.45	3.987 (J)	[A2M2]
263	133.00	142.00	18.00	120.42	129.13	150.57	145.90	242.99	3.991 (J)	[A2M2]
264	108.00	132.00	27.00	92.16	110.13	134.99	131.22	561.17	3.999 (J)	[PC]
265	113.00	137.00	30.00	96.73	111.79	142.69	141.30	642.38	3.999 (J)	[PC]
266	128.00	142.00	21.00	115.84	124.88	148.92	143.81	297.13	4.000 (J)	[A2M2]
267	138.00	142.00	9.00	139.91	133.20	146.92	143.23	38.19	4.004 (J)	[PC]
268	118.00	132.00	24.00	101.23	114.83	141.07	138.61	588.36	4.005 (J)	[A2M2]
269	113.00	132.00	30.00	92.43	110.16	141.67	140.84	865.40	4.009 (J)	[PC]
270	113.00	137.00	18.00	109.32	119.38	130.00	131.07	111.32	4.014 (J)	[A2M2]
271	113.00	122.00	24.00	92.14	110.13	135.16	131.22	887.69	4.014 (J)	[A2M2]
272	123.00	137.00	21.00	110.54	120.10	143.48	141.65	356.91	4.018 (J)	[A2M2]
273	128.00	147.00	24.00	116.72	125.82	151.99	147.72	272.07	4.022 (J)	[A2M2]
274	113.00	122.00	24.00	92.14	110.13	135.16	131.22	887.69	4.023 (J)	[A2M2]
275	113.00	142.00	24.00	107.90	118.55	134.43	131.20	165.93	4.024 (J)	[A2M2]
276	98.00	122.00	24.00	78.40	108.16	120.81	129.48	571.03	4.024 (J)	[PC]
277	113.00	132.00	30.00	92.43	110.16	141.67	140.84	865.40	4.027 (J)	[PC]
278	123.00	132.00	27.00	101.83	115.24	147.55	143.23	908.17	4.033 (J)	[A2M2]
279	98.00	122.00	24.00	78.40	108.16	120.81	129.48	571.03	4.038 (J)	[PC]
280	113.00	147.00	30.00	107.18	117.57	138.53	131.24	225.33	4.039 (J)	[A2M2]
281	123.00	132.00	27.00	101.83	115.24	147.55	143.23	908.17	4.045 (J)	[A2M2]
282	108.00	127.00	18.00	97.55	112.35	125.56	130.94	283.95	4.046 (J)	[PC]
283	128.00	137.00	21.00	113.23	122.08	148.05	143.23	460.11	4.051 (J)	[A2M2]
284	113.00	137.00	30.00	96.73	111.79	142.69	141.30	642.38	4.051 (J)	[PC]
285	103.00	147.00	30.00	105.66	117.12	128.39	131.03	85.64	4.054 (J)	[A2M2]
286	138.00	142.00	12.00	132.86	131.15	149.68	144.77	92.34	4.057 (J)	[PC]
287	118.00	142.00	30.00	103.00	116.02	147.97	143.23	558.73	4.060 (J)	[PC]
288	103.00	122.00	27.00	79.78	108.23	128.45	131.03	899.18	4.061 (J)	[PC]

289	108.00	137.00	27.00	97.33	112.20	134.37	131.20	366.23	4.063 (J)	[PC]
290	103.00	122.00	27.00	79.78	108.23	128.45	131.03	899.18	4.068 (J)	[PC]
291	133.00	142.00	18.00	120.42	129.13	150.57	145.90	242.99	4.072 (J)	[A2M2]
292	103.00	122.00	30.00	76.77	107.45	131.58	131.12	1152.19	4.079 (J)	[PC]
293	103.00	142.00	30.00	97.73	112.47	130.95	131.10	229.13	4.080 (J)	[PC]
294	123.00	137.00	21.00	110.54	120.10	143.48	141.65	356.91	4.080 (J)	[A2M2]
295	108.00	127.00	12.00	103.06	116.06	119.89	128.65	76.11	4.084 (J)	[A2M2]
296	128.00	142.00	21.00	115.84	124.88	148.92	143.81	297.13	4.085 (J)	[A2M2]
297	103.00	122.00	24.00	83.25	108.36	125.27	130.94	673.38	4.093 (J)	[PC]
298	128.00	137.00	21.00	113.23	122.08	148.05	143.23	460.11	4.095 (J)	[A2M2]
299	103.00	122.00	30.00	76.77	107.45	131.58	131.12	1152.19	4.098 (J)	[PC]
300	98.00	122.00	21.00	82.06	108.32	118.33	127.27	391.55	4.098 (J)	[PC]
301	108.00	132.00	24.00	95.93	111.26	131.98	131.13	401.48	4.098 (J)	[PC]
302	103.00	122.00	24.00	83.25	108.36	125.27	130.94	673.38	4.098 (J)	[PC]
303	103.00	127.00	18.00	95.70	110.55	120.83	129.49	190.04	4.116 (J)	[PC]
304	123.00	142.00	27.00	108.77	119.06	149.84	144.97	505.37	4.116 (J)	[PC]
305	118.00	142.00	30.00	103.00	116.02	147.97	143.23	558.73	4.134 (J)	[PC]
306	98.00	122.00	21.00	82.06	108.32	118.33	127.27	391.55	4.138 (J)	[PC]
307	108.00	137.00	27.00	97.33	112.20	134.37	131.20	366.23	4.144 (J)	[PC]
308	108.00	137.00	24.00	100.37	114.25	131.27	131.11	236.04	4.154 (J)	[PC]
309	108.00	142.00	30.00	99.06	113.36	136.00	131.22	320.54	4.156 (J)	[PC]
310	98.00	137.00	27.00	93.86	110.32	124.30	130.91	166.47	4.161 (J)	[PC]
311	138.00	142.00	9.00	139.91	133.20	146.92	143.23	38.19	4.165 (J)	[PC]
312	123.00	137.00	30.00	102.14	115.44	151.33	146.87	921.54	4.176 (J)	[PC]
313	108.00	132.00	24.00	95.93	111.26	131.98	131.13	401.48	4.180 (J)	[PC]
314	123.00	142.00	27.00	108.77	119.06	149.84	144.97	505.37	4.184 (J)	[PC]
315	113.00	122.00	30.00	85.91	109.11	140.21	134.62	1356.01	4.189 (J)	[A2M2]
316	108.00	127.00	15.00	100.24	114.16	122.49	130.86	165.71	4.190 (J)	[PC]
317	118.00	137.00	27.00	101.93	115.30	144.51	142.10	581.56	4.196 (J)	[PC]
318	118.00	127.00	30.00	93.13	110.23	144.04	141.89	1209.67	4.201 (J)	[A2M2]
319	123.00	137.00	30.00	102.14	115.44	151.33	146.87	921.54	4.202 (J)	[PC]
320	103.00	122.00	18.00	89.55	110.03	119.77	128.54	320.37	4.210 (J)	[PC]
321	103.00	127.00	18.00	95.70	110.55	120.83	129.49	190.04	4.220 (J)	[PC]
322	108.00	132.00	21.00	98.74	113.15	128.98	131.04	266.17	4.221 (J)	[PC]
323	118.00	127.00	30.00	93.13	110.23	144.04	141.89	1209.67	4.224 (J)	[A2M2]
324	113.00	122.00	30.00	85.91	109.11	140.21	134.62	1356.01	4.224 (J)	[A2M2]
325	108.00	127.00	12.00	103.06	116.06	119.89	128.65	76.11	4.225 (J)	[A2M2]
326	108.00	142.00	30.00	99.06	113.36	136.00	131.22	320.54	4.242 (J)	[PC]
327	103.00	122.00	21.00	86.31	109.25	122.13	130.67	476.09	4.242 (J)	[PC]
328	123.00	137.00	27.00	104.94	116.93	149.08	144.01	710.54	4.243 (J)	[PC]
329	103.00	137.00	24.00	99.01	113.33	126.23	130.96	149.92	4.245 (J)	[PC]
330	118.00	137.00	27.00	101.93	115.30	144.51	142.10	581.56	4.251 (J)	[PC]
331	103.00	122.00	18.00	89.55	110.03	119.77	128.54	320.37	4.255 (J)	[PC]
332	108.00	137.00	24.00	100.37	114.25	131.27	131.11	236.04	4.257 (J)	[PC]
333	103.00	122.00	21.00	86.31	109.25	122.13	130.67	476.09	4.262 (J)	[PC]
334	108.00	147.00	27.00	110.59	120.12	129.80	131.07	72.56	4.271 (J)	[A2M2]
335	118.00	132.00	30.00	96.17	111.42	146.00	142.76	1008.39	4.273 (J)	[PC]
336	113.00	127.00	27.00	91.93	110.11	139.59	131.70	893.68	4.275 (J)	[PC]
337	118.00	132.00	30.00	96.17	111.42	146.00	142.76	1008.39	4.284 (J)	[PC]
338	123.00	137.00	27.00	104.94	116.93	149.08	144.01	710.54	4.284 (J)	[PC]
339	108.00	127.00	15.00	100.24	114.16	122.49	130.86	165.71	4.286 (J)	[PC]

340	113.00	127.00	27.00	91.93	110.11	139.59	131.70	893.68	4.289 (J)	[PC]
341	108.00	137.00	18.00	108.69	119.01	124.95	130.93	52.04	4.290 (J)	[A2M2]
342	98.00	137.00	27.00	93.86	110.32	124.30	130.91	166.47	4.294 (J)	[PC]
343	138.00	142.00	15.00	127.79	131.01	151.91	147.62	186.97	4.306 (J)	[PC]
344	113.00	122.00	21.00	95.42	110.51	131.91	131.13	682.01	4.313 (J)	[A2M2]
345	113.00	122.00	21.00	95.42	110.51	131.91	131.13	682.01	4.315 (J)	[A2M2]
346	113.00	132.00	12.00	110.74	120.21	124.95	130.93	60.81	4.322 (J)	[A2M2]
347	108.00	132.00	21.00	98.74	113.15	128.98	131.04	266.17	4.327 (J)	[PC]
348	118.00	137.00	21.00	107.93	118.57	138.19	131.24	268.12	4.329 (J)	[A2M2]
349	108.00	142.00	27.00	102.37	115.59	132.72	131.15	197.52	4.332 (J)	[PC]
350	113.00	142.00	21.00	112.11	121.02	130.95	131.10	84.78	4.332 (J)	[A2M2]
351	118.00	127.00	21.00	101.00	114.67	138.57	131.24	611.24	4.333 (J)	[A2M2]
352	128.00	142.00	24.00	113.78	122.67	151.46	147.04	452.16	4.334 (J)	[PC]
353	123.00	132.00	24.00	104.43	116.80	144.73	142.20	691.88	4.352 (J)	[A2M2]
354	108.00	132.00	15.00	105.82	117.16	122.96	130.88	66.43	4.353 (J)	[A2M2]
355	113.00	147.00	27.00	110.56	120.11	134.90	131.21	127.99	4.354 (J)	[A2M2]
356	113.00	127.00	24.00	95.54	110.53	136.62	131.23	697.32	4.359 (J)	[PC]
357	103.00	132.00	21.00	96.90	111.91	123.97	130.90	174.00	4.364 (J)	[PC]
358	118.00	127.00	21.00	101.00	114.67	138.57	131.24	611.24	4.365 (J)	[A2M2]
359	98.00	142.00	30.00	97.06	112.01	125.89	130.95	135.11	4.371 (J)	[PC]
360	108.00	122.00	15.00	96.90	111.91	120.94	129.59	263.55	4.371 (J)	[A2M2]
361	138.00	137.00	6.00	136.36	131.23	142.34	141.14	16.39	4.373 (J)	[A2M2]
362	123.00	132.00	24.00	104.43	116.80	144.73	142.20	691.88	4.376 (J)	[A2M2]
363	103.00	137.00	24.00	99.01	113.33	126.23	130.96	149.92	4.380 (J)	[PC]
364	118.00	132.00	21.00	103.78	116.55	138.99	131.25	428.72	4.387 (J)	[A2M2]
365	113.00	127.00	24.00	95.54	110.53	136.62	131.23	697.32	4.388 (J)	[PC]
366	108.00	122.00	30.00	81.31	108.29	136.55	131.23	1267.88	4.392 (J)	[PC]
367	108.00	122.00	27.00	84.57	108.59	133.40	131.17	1012.13	4.393 (J)	[PC]
368	128.00	142.00	24.00	113.78	122.67	151.46	147.04	452.16	4.397 (J)	[PC]
369	138.00	142.00	15.00	127.79	131.01	151.91	147.62	186.97	4.397 (J)	[PC]
370	118.00	147.00	30.00	108.11	118.68	147.76	143.23	348.13	4.402 (J)	[PC]
371	118.00	127.00	15.00	106.52	117.34	132.42	131.14	315.97	4.403 (J)	[A2M2]
372	118.00	127.00	24.00	98.51	112.99	140.42	135.57	783.14	4.403 (J)	[A2M2]
373	108.00	122.00	27.00	84.57	108.59	133.40	131.17	1012.13	4.405 (J)	[PC]
374	118.00	132.00	18.00	107.19	117.61	135.98	131.22	301.05	4.405 (J)	[A2M2]
375	98.00	132.00	24.00	88.65	109.90	121.95	130.51	194.69	4.406 (J)	[PC]
376	108.00	122.00	24.00	87.43	109.64	130.22	131.08	783.25	4.407 (J)	[PC]
377	108.00	122.00	24.00	87.43	109.64	130.22	131.08	783.25	4.408 (J)	[PC]
378	118.00	137.00	21.00	107.93	118.57	138.19	131.24	268.12	4.411 (J)	[A2M2]
379	118.00	127.00	24.00	98.51	112.99	140.42	135.57	783.14	4.413 (J)	[A2M2]
380	113.00	127.00	12.00	106.05	117.22	124.34	130.91	140.50	4.414 (J)	[PC]
381	108.00	122.00	30.00	81.31	108.29	136.55	131.23	1267.88	4.415 (J)	[PC]
382	108.00	147.00	27.00	110.59	120.12	129.80	131.07	72.56	4.416 (J)	[A2M2]
383	108.00	122.00	15.00	96.90	111.91	120.94	129.59	263.55	4.418 (J)	[A2M2]
384	98.00	127.00	21.00	86.61	109.36	118.98	127.85	222.52	4.420 (J)	[PC]
385	118.00	127.00	18.00	103.49	116.35	135.50	131.22	451.74	4.430 (J)	[A2M2]
386	113.00	132.00	27.00	95.81	111.18	139.96	133.44	667.52	4.432 (J)	[PC]
387	103.00	122.00	15.00	93.63	110.29	117.34	126.41	195.08	4.434 (J)	[PC]
388	108.00	137.00	21.00	103.64	116.46	128.13	131.02	130.07	4.434 (J)	[PC]
389	108.00	142.00	27.00	102.37	115.59	132.72	131.15	197.52	4.444 (J)	[PC]
390	113.00	127.00	30.00	88.38	109.86	140.93	137.95	1105.81	4.446 (J)	[PC]

391	113.00	127.00	30.00	88.38	109.86	140.93	137.95	1105.81	4.456 (J)	[PC]
392	133.00	142.00	15.00	122.94	130.88	147.95	143.23	122.85	4.457 (J)	[A2M2]
393	118.00	127.00	15.00	106.52	117.34	132.42	131.14	315.97	4.458 (J)	[A2M2]
394	118.00	132.00	21.00	103.78	116.55	138.99	131.25	428.72	4.458 (J)	[A2M2]
395	123.00	137.00	24.00	107.75	118.46	146.27	142.88	520.50	4.459 (J)	[PC]
396	98.00	122.00	18.00	85.56	108.99	115.78	124.81	243.46	4.463 (J)	[PC]
397	113.00	127.00	21.00	97.80	112.51	133.58	131.17	522.95	4.463 (J)	[PC]
398	108.00	137.00	18.00	108.69	119.01	124.95	130.93	52.04	4.465 (J)	[A2M2]
399	113.00	142.00	21.00	112.11	121.02	130.95	131.10	84.78	4.466 (J)	[A2M2]
400	113.00	147.00	27.00	110.56	120.11	134.90	131.21	127.99	4.469 (J)	[A2M2]
401	118.00	127.00	18.00	103.49	116.35	135.50	131.22	451.74	4.476 (J)	[A2M2]
402	108.00	122.00	21.00	90.71	110.09	126.98	130.98	579.45	4.480 (J)	[PC]
403	108.00	132.00	18.00	101.69	115.14	125.97	130.96	154.70	4.481 (J)	[PC]
404	113.00	132.00	27.00	95.81	111.18	139.96	133.44	667.52	4.485 (J)	[PC]
405	113.00	127.00	15.00	102.87	115.94	127.46	131.00	244.58	4.488 (J)	[PC]
406	103.00	142.00	27.00	101.54	115.04	127.66	131.00	118.53	4.489 (J)	[PC]
407	108.00	122.00	21.00	90.71	110.09	126.98	130.98	579.45	4.491 (J)	[PC]
408	103.00	122.00	12.00	96.71	111.78	114.86	123.83	101.19	4.491 (J)	[A2M2]
409	118.00	132.00	18.00	107.19	117.61	135.98	131.22	301.05	4.493 (J)	[A2M2]
410	113.00	132.00	12.00	110.74	120.21	124.95	130.93	60.81	4.494 (J)	[A2M2]
411	103.00	132.00	21.00	96.90	111.91	123.97	130.90	174.00	4.505 (J)	[PC]
412	118.00	147.00	30.00	108.11	118.68	147.76	143.23	348.13	4.507 (J)	[PC]
413	113.00	127.00	21.00	97.80	112.51	133.58	131.17	522.95	4.509 (J)	[PC]
414	113.00	127.00	12.00	106.05	117.22	124.34	130.91	140.50	4.509 (J)	[PC]
415	133.00	147.00	18.00	124.90	130.93	150.99	146.43	101.84	4.509 (J)	[A2M2]
416	123.00	137.00	24.00	107.75	118.46	146.27	142.88	520.50	4.513 (J)	[PC]
417	103.00	122.00	15.00	93.63	110.29	117.34	126.41	195.08	4.514 (J)	[PC]
418	98.00	142.00	30.00	97.06	112.01	125.89	130.95	135.11	4.517 (J)	[PC]
419	98.00	127.00	18.00	91.81	110.10	115.88	124.92	105.35	4.521 (J)	[A2M2]
420	113.00	127.00	18.00	100.33	114.22	130.53	131.09	372.34	4.524 (J)	[PC]
421	138.00	137.00	6.00	136.36	131.23	142.34	141.14	16.39	4.530 (J)	[A2M2]
422	118.00	137.00	18.00	111.05	120.40	135.05	131.22	167.68	4.530 (J)	[A2M2]
423	98.00	127.00	21.00	86.61	109.36	118.98	127.85	222.52	4.537 (J)	[PC]
424	118.00	132.00	15.00	109.62	119.56	132.98	131.16	194.18	4.537 (J)	[A2M2]
425	108.00	132.00	15.00	105.82	117.16	122.96	130.88	66.43	4.537 (J)	[A2M2]
426	118.00	127.00	12.00	108.92	119.15	129.30	131.05	204.35	4.540 (J)	[A2M2]
427	113.00	137.00	27.00	99.46	113.64	139.38	131.25	456.90	4.542 (J)	[PC]
428	98.00	122.00	18.00	85.56	108.99	115.78	124.81	243.46	4.543 (J)	[PC]
429	98.00	132.00	24.00	88.65	109.90	121.95	130.51	194.69	4.545 (J)	[PC]
430	118.00	142.00	24.00	109.57	119.53	139.46	131.25	226.90	4.546 (J)	[A2M2]
431	113.00	137.00	24.00	102.27	115.53	136.30	131.23	317.62	4.562 (J)	[PC]
432	113.00	127.00	15.00	102.87	115.94	127.46	131.00	244.58	4.565 (J)	[PC]
433	113.00	137.00	15.00	113.16	122.00	126.74	130.98	47.09	4.569 (J)	[A2M2]
434	108.00	137.00	21.00	103.64	116.46	128.13	131.02	130.07	4.574 (J)	[PC]
435	113.00	127.00	18.00	100.33	114.22	130.53	131.09	372.34	4.586 (J)	[PC]
436	113.00	137.00	21.00	105.99	117.20	133.17	131.16	201.08	4.589 (J)	[PC]
437	118.00	132.00	27.00	98.70	113.12	143.26	141.55	781.20	4.592 (J)	[PC]
438	133.00	142.00	15.00	122.94	130.88	147.95	143.23	122.85	4.597 (J)	[A2M2]
439	118.00	127.00	12.00	108.92	119.15	129.30	131.05	204.35	4.608 (J)	[A2M2]
440	108.00	122.00	12.00	99.42	113.61	118.64	127.55	157.44	4.615 (J)	[A2M2]
441	113.00	137.00	27.00	99.46	113.64	139.38	131.25	456.90	4.615 (J)	[PC]

442	118.00	132.00	27.00	98.70	113.12	143.26	141.55	781.20	4.617 (J)	[PC]
443	113.00	132.00	24.00	98.42	112.93	136.99	131.23	499.11	4.617 (J)	[PC]
444	103.00	122.00	12.00	96.71	111.78	114.86	123.83	101.19	4.621 (J)	[A2M2]
445	118.00	147.00	27.00	111.66	120.75	144.56	142.12	202.01	4.624 (J)	[A2M2]
446	108.00	132.00	18.00	101.69	115.14	125.97	130.96	154.70	4.625 (J)	[PC]
447	108.00	147.00	30.00	105.58	117.10	133.48	131.17	155.85	4.626 (J)	[PC]
448	118.00	137.00	18.00	111.05	120.40	135.05	131.22	167.68	4.634 (J)	[A2M2]
449	118.00	142.00	24.00	109.57	119.53	139.46	131.25	226.90	4.634 (J)	[A2M2]
450	128.00	137.00	18.00	115.27	124.27	145.17	142.39	306.01	4.637 (J)	[A2M2]
451	103.00	142.00	27.00	101.54	115.04	127.66	131.00	118.53	4.638 (J)	[PC]
452	118.00	132.00	15.00	109.62	119.56	132.98	131.16	194.18	4.646 (J)	[A2M2]
453	118.00	127.00	27.00	96.02	111.32	141.45	140.39	964.32	4.651 (J)	[A2M2]
454	113.00	137.00	24.00	102.27	115.53	136.30	131.23	317.62	4.652 (J)	[PC]
455	118.00	142.00	27.00	106.83	117.42	145.00	142.32	378.45	4.665 (J)	[PC]
456	118.00	127.00	27.00	96.02	111.32	141.45	140.39	964.32	4.665 (J)	[A2M2]
457	133.00	147.00	15.00	140.03	133.75	147.52	143.23	30.08	4.669 (J)	[PC]
458	113.00	132.00	21.00	101.07	114.72	133.98	131.19	351.97	4.671 (J)	[PC]
459	103.00	132.00	18.00	100.30	114.20	120.82	129.49	74.26	4.671 (J)	[A2M2]
460	98.00	127.00	18.00	91.81	110.10	115.88	124.92	105.35	4.684 (J)	[A2M2]
461	118.00	152.00	30.00	113.48	122.34	146.63	143.03	166.84	4.684 (J)	[A2M2]
462	98.00	122.00	15.00	89.06	109.96	113.00	121.83	127.78	4.689 (J)	[A2M2]
463	108.00	142.00	24.00	107.34	118.01	129.36	131.05	101.51	4.690 (J)	[PC]
464	108.00	122.00	12.00	99.42	113.61	118.64	127.55	157.44	4.693 (J)	[A2M2]
465	113.00	132.00	24.00	98.42	112.93	136.99	131.23	499.11	4.694 (J)	[PC]
466	133.00	147.00	18.00	124.90	130.93	150.99	146.43	101.84	4.694 (J)	[A2M2]
467	113.00	132.00	18.00	103.77	116.54	130.98	131.10	230.02	4.694 (J)	[PC]
468	113.00	137.00	21.00	105.99	117.20	133.17	131.16	201.08	4.700 (J)	[PC]
469	128.00	137.00	18.00	115.27	124.27	145.17	142.39	306.01	4.702 (J)	[A2M2]
470	133.00	152.00	18.00	140.42	135.60	149.21	144.18	26.23	4.702 (J)	[A2M2]
471	113.00	142.00	27.00	103.85	116.60	137.76	131.24	273.19	4.705 (J)	[PC]
472	123.00	142.00	24.00	111.75	120.80	146.97	143.23	340.79	4.707 (J)	[PC]
473	113.00	142.00	30.00	100.85	114.57	142.99	141.43	422.91	4.707 (J)	[PC]
474	98.00	132.00	21.00	95.79	111.12	118.49	127.42	84.07	4.715 (J)	[A2M2]
475	138.00	147.00	12.00	140.34	135.23	149.82	144.95	37.29	4.724 (J)	[A2M2]
476	103.00	137.00	21.00	102.97	116.00	123.09	130.88	56.34	4.729 (J)	[A2M2]
477	113.00	137.00	15.00	113.16	122.00	126.74	130.98	47.09	4.742 (J)	[A2M2]
478	123.00	147.00	27.00	113.06	121.90	149.93	145.09	310.83	4.742 (J)	[PC]
479	108.00	147.00	30.00	105.58	117.10	133.48	131.17	155.85	4.752 (J)	[PC]
480	143.00	142.00	9.00	139.98	133.52	150.90	146.31	88.02	4.753 (J)	[PC]
481	118.00	147.00	27.00	111.66	120.75	144.56	142.12	202.01	4.759 (J)	[A2M2]
482	113.00	132.00	21.00	101.07	114.72	133.98	131.19	351.97	4.765 (J)	[PC]
483	118.00	142.00	27.00	106.83	117.42	145.00	142.32	378.45	4.772 (J)	[PC]
484	123.00	147.00	24.00	115.28	124.28	146.67	143.05	174.26	4.777 (J)	[A2M2]
485	118.00	132.00	12.00	112.52	121.32	129.96	131.07	112.08	4.796 (J)	[A2M2]
486	113.00	142.00	27.00	103.85	116.60	137.76	131.24	273.19	4.802 (J)	[PC]
487	113.00	132.00	15.00	107.37	118.10	127.97	131.01	133.15	4.802 (J)	[PC]
488	123.00	142.00	24.00	111.75	120.80	146.97	143.23	340.79	4.810 (J)	[PC]
489	128.00	147.00	21.00	119.12	127.97	148.72	143.55	139.90	4.810 (J)	[A2M2]
490	113.00	132.00	18.00	103.77	116.54	130.98	131.10	230.02	4.812 (J)	[PC]
491	138.00	137.00	9.00	131.20	131.11	145.20	142.40	78.36	4.815 (J)	[A2M2]
492	113.00	142.00	30.00	100.85	114.57	142.99	141.43	422.91	4.819 (J)	[PC]

493	118.00	152.00	30.00	113.48	122.34	146.63	143.03	166.84	4.828 (J)	[A2M2]
494	123.00	152.00	27.00	116.66	125.75	148.59	143.40	138.90	4.832 (J)	[A2M2]
495	108.00	142.00	21.00	112.72	121.54	125.86	130.95	35.44	4.836 (J)	[A2M2]
496	143.00	142.00	9.00	139.98	133.52	150.90	146.31	88.02	4.842 (J)	[PC]
497	108.00	142.00	24.00	107.34	118.01	129.36	131.05	101.51	4.842 (J)	[PC]
498	98.00	122.00	15.00	89.06	109.96	113.00	121.83	127.78	4.843 (J)	[A2M2]
499	113.00	127.00	9.00	108.77	119.06	121.46	130.07	63.45	4.844 (J)	[PC]
500	118.00	127.00	9.00	111.57	120.70	126.08	130.96	115.58	4.844 (J)	[A2M2]
501	118.00	137.00	24.00	104.86	116.91	141.69	140.85	403.09	4.850 (J)	[PC]
502	113.00	122.00	18.00	97.73	112.47	128.57	131.03	499.30	4.854 (J)	[A2M2]
503	123.00	147.00	27.00	113.06	121.90	149.93	145.09	310.83	4.861 (J)	[PC]
504	103.00	132.00	18.00	100.30	114.20	120.82	129.49	74.26	4.862 (J)	[A2M2]
505	108.00	122.00	18.00	94.26	110.37	123.65	130.89	402.42	4.864 (J)	[PC]
506	113.00	122.00	18.00	97.73	112.47	128.57	131.03	499.30	4.870 (J)	[A2M2]
507	113.00	137.00	18.00	109.32	119.38	130.00	131.07	111.32	4.871 (J)	[PC]
508	133.00	147.00	15.00	140.03	133.75	147.52	143.23	30.08	4.884 (J)	[PC]
509	128.00	137.00	24.00	110.81	120.25	150.38	145.66	630.29	4.890 (J)	[PC]
510	108.00	122.00	18.00	94.26	110.37	123.65	130.89	402.42	4.891 (J)	[PC]
511	103.00	147.00	30.00	105.66	117.12	128.39	131.03	85.64	4.895 (J)	[PC]
512	128.00	147.00	24.00	116.72	125.82	151.99	147.72	272.07	4.897 (J)	[PC]
513	98.00	132.00	21.00	95.79	111.12	118.49	127.42	84.07	4.899 (J)	[A2M2]
514	123.00	132.00	30.00	99.34	113.55	149.97	145.14	1139.71	4.900 (J)	[PC]
515	123.00	132.00	30.00	99.34	113.55	149.97	145.14	1139.71	4.901 (J)	[PC]
516	113.00	142.00	24.00	107.90	118.55	134.43	131.20	165.93	4.907 (J)	[PC]
517	113.00	122.00	27.00	88.85	109.93	138.37	131.24	1121.70	4.909 (J)	[PC]
518	133.00	152.00	18.00	140.42	135.60	149.21	144.18	26.23	4.910 (J)	[A2M2]
519	123.00	147.00	24.00	115.28	124.28	146.67	143.05	174.26	4.920 (J)	[A2M2]
520	138.00	137.00	9.00	131.20	131.11	145.20	142.40	78.36	4.927 (J)	[A2M2]
521	123.00	132.00	21.00	107.34	118.01	141.98	140.99	505.63	4.927 (J)	[A2M2]
522	118.00	127.00	9.00	111.57	120.70	126.08	130.96	115.58	4.929 (J)	[A2M2]
523	128.00	137.00	24.00	110.81	120.25	150.38	145.66	630.29	4.929 (J)	[PC]
524	113.00	122.00	27.00	88.85	109.93	138.37	131.24	1121.70	4.930 (J)	[PC]
525	103.00	137.00	21.00	102.97	116.00	123.09	130.88	56.34	4.930 (J)	[A2M2]
526	138.00	147.00	12.00	140.34	135.23	149.82	144.95	37.29	4.932 (J)	[A2M2]
527	118.00	137.00	24.00	104.86	116.91	141.69	140.85	403.09	4.933 (J)	[PC]
528	118.00	132.00	12.00	112.52	121.32	129.96	131.07	112.08	4.936 (J)	[A2M2]
529	113.00	147.00	30.00	107.18	117.57	138.53	131.24	225.33	4.944 (J)	[PC]
530	113.00	132.00	15.00	107.37	118.10	127.97	131.01	133.15	4.951 (J)	[PC]
531	118.00	132.00	24.00	101.23	114.83	141.07	138.61	588.36	4.961 (J)	[PC]
532	123.00	132.00	21.00	107.34	118.01	141.98	140.99	505.63	4.961 (J)	[A2M2]
533	128.00	147.00	21.00	119.12	127.97	148.72	143.55	139.90	4.964 (J)	[A2M2]
534	113.00	127.00	9.00	108.77	119.06	121.46	130.07	63.45	4.983 (J)	[PC]
535	123.00	152.00	27.00	116.66	125.75	148.59	143.40	138.90	4.987 (J)	[A2M2]
536	133.00	142.00	18.00	120.42	129.13	150.57	145.90	242.99	4.989 (J)	[PC]
537	118.00	142.00	21.00	112.83	121.65	136.03	131.23	134.26	4.993 (J)	[A2M2]
538	108.00	122.00	9.00	101.96	115.32	116.33	125.40	76.87	5.000 (J)	[A2M2]
539	128.00	142.00	21.00	115.84	124.88	148.92	143.81	297.13	5.000 (J)	[PC]
540	118.00	132.00	24.00	101.23	114.83	141.07	138.61	588.36	5.007 (J)	[PC]
541	113.00	137.00	18.00	109.32	119.38	130.00	131.07	111.32	5.017 (J)	[PC]
542	113.00	122.00	24.00	92.14	110.13	135.16	131.22	887.69	5.018 (J)	[PC]
543	123.00	137.00	21.00	110.54	120.10	143.48	141.65	356.91	5.023 (J)	[PC]

544	128.00	147.00	24.00	116.72	125.82	151.99	147.72	272.07	5.027 (J)	[PC]
545	113.00	122.00	24.00	92.14	110.13	135.16	131.22	887.69	5.029 (J)	[PC]
546	113.00	142.00	24.00	107.90	118.55	134.43	131.20	165.93	5.030 (J)	[PC]
547	128.00	152.00	24.00	120.50	129.20	151.49	147.07	107.09	5.033 (J)	[A2M2]
548	108.00	142.00	21.00	112.72	121.54	125.86	130.95	35.44	5.035 (J)	[A2M2]
549	123.00	132.00	27.00	101.83	115.24	147.55	143.23	908.17	5.042 (J)	[PC]
550	113.00	147.00	30.00	107.18	117.57	138.53	131.24	225.33	5.049 (J)	[PC]
551	118.00	137.00	15.00	113.73	122.62	131.80	131.12	91.24	5.055 (J)	[A2M2]
552	123.00	132.00	27.00	101.83	115.24	147.55	143.23	908.17	5.056 (J)	[PC]
553	128.00	132.00	27.00	105.50	117.08	150.90	146.31	1006.85	5.059 (J)	[A2M2]
554	128.00	137.00	21.00	113.23	122.08	148.05	143.23	460.11	5.063 (J)	[PC]
555	128.00	132.00	27.00	105.50	117.08	150.90	146.31	1006.85	5.064 (J)	[A2M2]
556	103.00	147.00	30.00	105.66	117.12	128.39	131.03	85.64	5.068 (J)	[PC]
557	128.00	142.00	18.00	118.03	127.01	145.98	142.75	165.66	5.089 (J)	[A2M2]
558	133.00	142.00	18.00	120.42	129.13	150.57	145.90	242.99	5.090 (J)	[PC]
559	123.00	137.00	21.00	110.54	120.10	143.48	141.65	356.91	5.100 (J)	[PC]
560	143.00	142.00	6.00	140.62	136.49	148.77	143.63	41.04	5.105 (J)	[A2M2]
561	113.00	152.00	30.00	113.16	122.00	134.62	131.20	91.60	5.105 (J)	[A2M2]
562	108.00	127.00	12.00	103.06	116.06	119.89	128.65	76.11	5.106 (J)	[PC]
563	128.00	142.00	21.00	115.84	124.88	148.92	143.81	297.13	5.106 (J)	[PC]
564	103.00	142.00	24.00	107.78	118.48	124.28	130.91	37.32	5.108 (J)	[A2M2]
565	118.00	142.00	21.00	112.83	121.65	136.03	131.23	134.26	5.110 (J)	[A2M2]
566	128.00	137.00	21.00	113.23	122.08	148.05	143.23	460.11	5.118 (J)	[PC]
567	108.00	122.00	9.00	101.96	115.32	116.33	125.40	76.87	5.124 (J)	[A2M2]
568	133.00	137.00	21.00	115.85	124.88	151.45	147.03	541.46	5.129 (J)	[A2M2]
569	128.00	132.00	24.00	108.06	118.64	148.90	143.79	801.30	5.135 (J)	[A2M2]
570	128.00	132.00	24.00	108.06	118.64	148.90	143.79	801.30	5.145 (J)	[A2M2]
571	138.00	137.00	12.00	127.61	131.00	148.26	143.23	175.68	5.156 (J)	[A2M2]
572	133.00	137.00	21.00	115.85	124.88	151.45	147.03	541.46	5.160 (J)	[A2M2]
573	98.00	137.00	24.00	98.53	113.01	120.78	129.46	61.88	5.170 (J)	[A2M2]
574	133.00	137.00	18.00	118.03	127.01	149.40	144.42	384.36	5.176 (J)	[A2M2]
575	123.00	132.00	18.00	109.86	119.70	140.53	136.09	365.29	5.196 (J)	[A2M2]
576	118.00	137.00	15.00	113.73	122.62	131.80	131.12	91.24	5.197 (J)	[A2M2]
577	108.00	152.00	30.00	113.66	122.54	129.48	131.06	46.89	5.220 (J)	[A2M2]
578	128.00	152.00	24.00	120.50	129.20	151.49	147.07	107.09	5.224 (J)	[A2M2]
579	133.00	137.00	18.00	118.03	127.01	149.40	144.42	384.36	5.227 (J)	[A2M2]
580	128.00	142.00	18.00	118.03	127.01	145.98	142.75	165.66	5.235 (J)	[A2M2]
581	113.00	122.00	30.00	85.91	109.11	140.21	134.62	1356.01	5.236 (J)	[PC]
582	138.00	137.00	12.00	127.61	131.00	148.26	143.23	175.68	5.241 (J)	[A2M2]
583	113.00	152.00	30.00	113.16	122.00	134.62	131.20	91.60	5.250 (J)	[A2M2]
584	143.00	142.00	6.00	140.62	136.49	148.77	143.63	41.04	5.251 (J)	[A2M2]
585	118.00	127.00	30.00	93.13	110.23	144.04	141.89	1209.67	5.251 (J)	[PC]
586	123.00	132.00	18.00	109.86	119.70	140.53	136.09	365.29	5.257 (J)	[A2M2]
587	118.00	127.00	30.00	93.13	110.23	144.04	141.89	1209.67	5.280 (J)	[PC]
588	113.00	122.00	30.00	85.91	109.11	140.21	134.62	1356.01	5.280 (J)	[PC]
589	108.00	127.00	12.00	103.06	116.06	119.89	128.65	76.11	5.282 (J)	[PC]
590	123.00	142.00	21.00	114.08	122.99	144.00	141.88	202.12	5.297 (J)	[A2M2]
591	113.00	147.00	24.00	114.11	123.03	130.98	131.10	57.87	5.331 (J)	[A2M2]
592	103.00	142.00	24.00	107.78	118.48	124.28	130.91	37.32	5.333 (J)	[A2M2]
593	108.00	147.00	27.00	110.59	120.12	129.80	131.07	72.56	5.338 (J)	[PC]
594	108.00	137.00	18.00	108.69	119.01	124.95	130.93	52.04	5.363 (J)	[PC]

595	98.00	137.00	24.00	98.53	113.01	120.78	129.46	61.88	5.389 (J)	[A2M2]
596	113.00	122.00	21.00	95.42	110.51	131.91	131.13	682.01	5.391 (J)	[PC]
597	113.00	122.00	21.00	95.42	110.51	131.91	131.13	682.01	5.393 (J)	[PC]
598	113.00	132.00	12.00	110.74	120.21	124.95	130.93	60.81	5.402 (J)	[PC]
599	108.00	152.00	30.00	113.66	122.54	129.48	131.06	46.89	5.409 (J)	[A2M2]
600	118.00	137.00	21.00	107.93	118.57	138.19	131.24	268.12	5.412 (J)	[PC]
601	113.00	142.00	21.00	112.11	121.02	130.95	131.10	84.78	5.415 (J)	[PC]
602	118.00	127.00	21.00	101.00	114.67	138.57	131.24	611.24	5.416 (J)	[PC]
603	123.00	132.00	24.00	104.43	116.80	144.73	142.20	691.88	5.440 (J)	[PC]
604	108.00	132.00	15.00	105.82	117.16	122.96	130.88	66.43	5.441 (J)	[PC]
605	113.00	147.00	27.00	110.56	120.11	134.90	131.21	127.99	5.443 (J)	[PC]
606	123.00	142.00	21.00	114.08	122.99	144.00	141.88	202.12	5.454 (J)	[A2M2]
607	118.00	127.00	21.00	101.00	114.67	138.57	131.24	611.24	5.456 (J)	[PC]
608	108.00	122.00	15.00	96.90	111.91	120.94	129.59	263.55	5.463 (J)	[PC]
609	138.00	137.00	6.00	136.36	131.23	142.34	141.14	16.39	5.466 (J)	[PC]
610	123.00	132.00	24.00	104.43	116.80	144.73	142.20	691.88	5.469 (J)	[PC]
611	118.00	132.00	21.00	103.78	116.55	138.99	131.25	428.72	5.484 (J)	[PC]
612	118.00	127.00	15.00	106.52	117.34	132.42	131.14	315.97	5.504 (J)	[PC]
613	118.00	127.00	24.00	98.51	112.99	140.42	135.57	783.14	5.504 (J)	[PC]
614	118.00	132.00	18.00	107.19	117.61	135.98	131.22	301.05	5.507 (J)	[PC]
615	113.00	147.00	24.00	114.11	123.03	130.98	131.10	57.87	5.507 (J)	[A2M2]
616	118.00	137.00	21.00	107.93	118.57	138.19	131.24	268.12	5.514 (J)	[PC]
617	118.00	127.00	24.00	98.51	112.99	140.42	135.57	783.14	5.517 (J)	[PC]
618	108.00	147.00	27.00	110.59	120.12	129.80	131.07	72.56	5.520 (J)	[PC]
619	108.00	122.00	15.00	96.90	111.91	120.94	129.59	263.55	5.523 (J)	[PC]
620	118.00	132.00	9.00	114.68	123.63	126.94	130.98	52.19	5.532 (J)	[A2M2]
621	118.00	127.00	18.00	103.49	116.35	135.50	131.22	451.74	5.537 (J)	[PC]
622	133.00	142.00	15.00	122.94	130.88	147.95	143.23	122.85	5.571 (J)	[PC]
623	118.00	127.00	15.00	106.52	117.34	132.42	131.14	315.97	5.572 (J)	[PC]
624	118.00	132.00	21.00	103.78	116.55	138.99	131.25	428.72	5.573 (J)	[PC]
625	108.00	137.00	18.00	108.69	119.01	124.95	130.93	52.04	5.581 (J)	[PC]
626	113.00	142.00	21.00	112.11	121.02	130.95	131.10	84.78	5.582 (J)	[PC]
627	113.00	147.00	27.00	110.56	120.11	134.90	131.21	127.99	5.587 (J)	[PC]
628	118.00	127.00	18.00	103.49	116.35	135.50	131.22	451.74	5.595 (J)	[PC]
629	103.00	122.00	12.00	96.71	111.78	114.86	123.83	101.19	5.614 (J)	[PC]
630	118.00	132.00	18.00	107.19	117.61	135.98	131.22	301.05	5.616 (J)	[PC]
631	113.00	132.00	12.00	110.74	120.21	124.95	130.93	60.81	5.618 (J)	[PC]
632	133.00	137.00	15.00	120.30	129.02	146.71	143.07	242.98	5.626 (J)	[A2M2]
633	133.00	147.00	18.00	124.90	130.93	150.99	146.43	101.84	5.636 (J)	[PC]
634	98.00	127.00	18.00	91.81	110.10	115.88	124.92	105.35	5.651 (J)	[PC]
635	138.00	137.00	6.00	136.36	131.23	142.34	141.14	16.39	5.662 (J)	[PC]
636	118.00	137.00	18.00	111.05	120.40	135.05	131.22	167.68	5.662 (J)	[PC]
637	118.00	132.00	15.00	109.62	119.56	132.98	131.16	194.18	5.671 (J)	[PC]
638	108.00	132.00	15.00	105.82	117.16	122.96	130.88	66.43	5.672 (J)	[PC]
639	118.00	127.00	12.00	108.92	119.15	129.30	131.05	204.35	5.675 (J)	[PC]
640	118.00	142.00	24.00	109.57	119.53	139.46	131.25	226.90	5.682 (J)	[PC]
641	133.00	137.00	15.00	120.30	129.02	146.71	143.07	242.98	5.705 (J)	[A2M2]
642	113.00	137.00	15.00	113.16	122.00	126.74	130.98	47.09	5.712 (J)	[PC]
643	118.00	132.00	9.00	114.68	123.63	126.94	130.98	52.19	5.734 (J)	[A2M2]
644	133.00	142.00	15.00	122.94	130.88	147.95	143.23	122.85	5.746 (J)	[PC]
645	98.00	122.00	12.00	94.80	110.44	109.77	119.64	49.08	5.750 (J)	[A2M2]

646	118.00	127.00	12.00	108.92	119.15	129.30	131.05	204.35	5.760 (J)	[PC]
647	108.00	122.00	12.00	99.42	113.61	118.64	127.55	157.44	5.769 (J)	[PC]
648	103.00	122.00	12.00	96.71	111.78	114.86	123.83	101.19	5.776 (J)	[PC]
649	118.00	147.00	27.00	111.66	120.75	144.56	142.12	202.01	5.780 (J)	[PC]
650	118.00	137.00	18.00	111.05	120.40	135.05	131.22	167.68	5.792 (J)	[PC]
651	118.00	142.00	24.00	109.57	119.53	139.46	131.25	226.90	5.793 (J)	[PC]
652	128.00	137.00	18.00	115.27	124.27	145.17	142.39	306.01	5.796 (J)	[PC]
653	118.00	132.00	15.00	109.62	119.56	132.98	131.16	194.18	5.807 (J)	[PC]
654	118.00	127.00	27.00	96.02	111.32	141.45	140.39	964.32	5.814 (J)	[PC]
655	113.00	127.00	6.00	112.18	121.06	118.94	127.81	16.33	5.822 (J)	[A2M2]
656	128.00	132.00	21.00	110.65	120.16	146.03	142.77	600.44	5.825 (J)	[A2M2]
657	118.00	127.00	27.00	96.02	111.32	141.45	140.39	964.32	5.831 (J)	[PC]
658	103.00	132.00	18.00	100.30	114.20	120.82	129.49	74.26	5.839 (J)	[PC]
659	128.00	132.00	21.00	110.65	120.16	146.03	142.77	600.44	5.842 (J)	[A2M2]
660	98.00	127.00	18.00	91.81	110.10	115.88	124.92	105.35	5.854 (J)	[PC]
661	118.00	152.00	30.00	113.48	122.34	146.63	143.03	166.84	5.854 (J)	[PC]
662	143.00	147.00	9.00	140.99	138.23	151.97	147.70	38.94	5.859 (J)	[A2M2]
663	98.00	122.00	15.00	89.06	109.96	113.00	121.83	127.78	5.862 (J)	[PC]
664	108.00	122.00	12.00	99.42	113.61	118.64	127.55	157.44	5.867 (J)	[PC]
665	133.00	147.00	18.00	124.90	130.93	150.99	146.43	101.84	5.867 (J)	[PC]
666	113.00	122.00	15.00	100.22	114.15	125.05	130.93	336.82	5.871 (J)	[A2M2]
667	128.00	137.00	18.00	115.27	124.27	145.17	142.39	306.01	5.877 (J)	[PC]
668	133.00	152.00	18.00	140.42	135.60	149.21	144.18	26.23	5.877 (J)	[PC]
669	98.00	132.00	21.00	95.79	111.12	118.49	127.42	84.07	5.894 (J)	[PC]
670	113.00	122.00	15.00	100.22	114.15	125.05	130.93	336.82	5.901 (J)	[A2M2]
671	113.00	142.00	18.00	115.14	124.13	127.24	130.99	29.84	5.902 (J)	[A2M2]
672	138.00	147.00	12.00	140.34	135.23	149.82	144.95	37.29	5.905 (J)	[PC]
673	103.00	137.00	21.00	102.97	116.00	123.09	130.88	56.34	5.911 (J)	[PC]
674	113.00	137.00	15.00	113.16	122.00	126.74	130.98	47.09	5.927 (J)	[PC]
675	118.00	147.00	24.00	114.35	123.28	136.09	131.23	98.31	5.936 (J)	[A2M2]
676	118.00	147.00	27.00	111.66	120.75	144.56	142.12	202.01	5.948 (J)	[PC]
677	123.00	147.00	24.00	115.28	124.28	146.67	143.05	174.26	5.971 (J)	[PC]
678	98.00	122.00	12.00	94.80	110.44	109.77	119.64	49.08	5.975 (J)	[A2M2]
679	118.00	132.00	12.00	112.52	121.32	129.96	131.07	112.08	5.995 (J)	[PC]
680	103.00	147.00	27.00	113.13	121.97	124.69	130.92	21.78	5.999 (J)	[A2M2]
681	128.00	147.00	21.00	119.12	127.97	148.72	143.55	139.90	6.012 (J)	[PC]
682	138.00	137.00	9.00	131.20	131.11	145.20	142.40	78.36	6.019 (J)	[PC]
683	118.00	152.00	30.00	113.48	122.34	146.63	143.03	166.84	6.035 (J)	[PC]
684	123.00	152.00	27.00	116.66	125.75	148.59	143.40	138.90	6.040 (J)	[PC]
685	108.00	142.00	21.00	112.72	121.54	125.86	130.95	35.44	6.045 (J)	[PC]
686	98.00	122.00	15.00	89.06	109.96	113.00	121.83	127.78	6.054 (J)	[PC]
687	118.00	127.00	9.00	111.57	120.70	126.08	130.96	115.58	6.055 (J)	[PC]
688	113.00	122.00	18.00	97.73	112.47	128.57	131.03	499.30	6.068 (J)	[PC]
689	103.00	132.00	18.00	100.30	114.20	120.82	129.49	74.26	6.077 (J)	[PC]
690	113.00	122.00	18.00	97.73	112.47	128.57	131.03	499.30	6.087 (J)	[PC]
691	118.00	147.00	24.00	114.35	123.28	136.09	131.23	98.31	6.087 (J)	[A2M2]
692	113.00	127.00	6.00	112.18	121.06	118.94	127.81	16.33	6.089 (J)	[A2M2]
693	143.00	147.00	9.00	140.99	138.23	151.97	147.70	38.94	6.098 (J)	[A2M2]
694	98.00	142.00	27.00	101.90	115.28	122.60	130.87	39.45	6.116 (J)	[A2M2]
695	98.00	132.00	21.00	95.79	111.12	118.49	127.42	84.07	6.124 (J)	[PC]
696	118.00	142.00	18.00	115.22	124.22	132.35	131.14	64.81	6.124 (J)	[A2M2]

697	113.00	142.00	18.00	115.14	124.13	127.24	130.99	29.84	6.135 (J)	[A2M2]
698	133.00	152.00	18.00	140.42	135.60	149.21	144.18	26.23	6.137 (J)	[PC]
699	123.00	147.00	24.00	115.28	124.28	146.67	143.05	174.26	6.149 (J)	[PC]
700	138.00	137.00	9.00	131.20	131.11	145.20	142.40	78.36	6.158 (J)	[PC]
701	123.00	132.00	21.00	107.34	118.01	141.98	140.99	505.63	6.159 (J)	[PC]
702	118.00	127.00	9.00	111.57	120.70	126.08	130.96	115.58	6.161 (J)	[PC]
703	103.00	137.00	21.00	102.97	116.00	123.09	130.88	56.34	6.163 (J)	[PC]
704	138.00	147.00	12.00	140.34	135.23	149.82	144.95	37.29	6.165 (J)	[PC]
705	123.00	132.00	15.00	112.50	121.29	137.98	131.24	248.09	6.166 (J)	[A2M2]
706	118.00	132.00	12.00	112.52	121.32	129.96	131.07	112.08	6.170 (J)	[PC]
707	123.00	132.00	21.00	107.34	118.01	141.98	140.99	505.63	6.201 (J)	[PC]
708	128.00	147.00	21.00	119.12	127.97	148.72	143.55	139.90	6.205 (J)	[PC]
709	123.00	152.00	27.00	116.66	125.75	148.59	143.40	138.90	6.234 (J)	[PC]
710	118.00	142.00	21.00	112.83	121.65	136.03	131.23	134.26	6.241 (J)	[PC]
711	108.00	122.00	9.00	101.96	115.32	116.33	125.40	76.87	6.250 (J)	[PC]
712	103.00	147.00	27.00	113.13	121.97	124.69	130.92	21.78	6.272 (J)	[A2M2]
713	123.00	132.00	15.00	112.50	121.29	137.98	131.24	248.09	6.275 (J)	[A2M2]
714	128.00	152.00	24.00	120.50	129.20	151.49	147.07	107.09	6.291 (J)	[PC]
715	108.00	142.00	21.00	112.72	121.54	125.86	130.95	35.44	6.294 (J)	[PC]
716	118.00	142.00	18.00	115.22	124.22	132.35	131.14	64.81	6.306 (J)	[A2M2]
717	118.00	137.00	15.00	113.73	122.62	131.80	131.12	91.24	6.319 (J)	[PC]
718	128.00	132.00	27.00	105.50	117.08	150.90	146.31	1006.85	6.324 (J)	[PC]
719	128.00	132.00	27.00	105.50	117.08	150.90	146.31	1006.85	6.330 (J)	[PC]
720	128.00	142.00	18.00	118.03	127.01	145.98	142.75	165.66	6.362 (J)	[PC]
721	123.00	137.00	18.00	113.12	121.96	140.97	138.12	220.56	6.374 (J)	[A2M2]
722	128.00	137.00	15.00	117.36	126.43	142.41	141.17	177.87	6.375 (J)	[A2M2]
723	143.00	142.00	6.00	140.62	136.49	148.77	143.63	41.04	6.381 (J)	[PC]
724	113.00	152.00	30.00	113.16	122.00	134.62	131.20	91.60	6.382 (J)	[PC]
725	103.00	142.00	24.00	107.78	118.48	124.28	130.91	37.32	6.385 (J)	[PC]
726	118.00	142.00	21.00	112.83	121.65	136.03	131.23	134.26	6.388 (J)	[PC]
727	118.00	137.00	12.00	116.10	125.15	128.41	131.03	36.75	6.393 (J)	[A2M2]
728	98.00	142.00	27.00	101.90	115.28	122.60	130.87	39.45	6.398 (J)	[A2M2]
729	108.00	122.00	9.00	101.96	115.32	116.33	125.40	76.87	6.405 (J)	[PC]
730	133.00	137.00	21.00	115.85	124.88	151.45	147.03	541.46	6.411 (J)	[PC]
731	128.00	132.00	24.00	108.06	118.64	148.90	143.79	801.30	6.419 (J)	[PC]
732	133.00	137.00	12.00	122.68	130.87	143.97	141.86	124.77	6.429 (J)	[A2M2]
733	128.00	132.00	24.00	108.06	118.64	148.90	143.79	801.30	6.431 (J)	[PC]
734	138.00	137.00	15.00	124.29	130.91	150.31	145.57	290.47	6.438 (J)	[A2M2]
735	138.00	137.00	12.00	127.61	131.00	148.26	143.23	175.68	6.445 (J)	[PC]
736	133.00	137.00	21.00	115.85	124.88	151.45	147.03	541.46	6.450 (J)	[PC]
737	98.00	137.00	24.00	98.53	113.01	120.78	129.46	61.88	6.463 (J)	[PC]
738	133.00	137.00	18.00	118.03	127.01	149.40	144.42	384.36	6.470 (J)	[PC]
739	128.00	137.00	15.00	117.36	126.43	142.41	141.17	177.87	6.491 (J)	[A2M2]
740	123.00	132.00	18.00	109.86	119.70	140.53	136.09	365.29	6.495 (J)	[PC]
741	118.00	137.00	15.00	113.73	122.62	131.80	131.12	91.24	6.496 (J)	[PC]
742	138.00	137.00	15.00	124.29	130.91	150.31	145.57	290.47	6.503 (J)	[A2M2]
743	123.00	137.00	18.00	113.12	121.96	140.97	138.12	220.56	6.518 (J)	[A2M2]
744	108.00	152.00	30.00	113.66	122.54	129.48	131.06	46.89	6.525 (J)	[PC]
745	128.00	152.00	24.00	120.50	129.20	151.49	147.07	107.09	6.529 (J)	[PC]
746	133.00	137.00	18.00	118.03	127.01	149.40	144.42	384.36	6.534 (J)	[PC]
747	128.00	142.00	18.00	118.03	127.01	145.98	142.75	165.66	6.544 (J)	[PC]

748	138.00	137.00	12.00	127.61	131.00	148.26	143.23	175.68	6.551 (J)	[PC]
749	113.00	152.00	30.00	113.16	122.00	134.62	131.20	91.60	6.563 (J)	[PC]
750	143.00	142.00	6.00	140.62	136.49	148.77	143.63	41.04	6.564 (J)	[PC]
751	133.00	137.00	12.00	122.68	130.87	143.97	141.86	124.77	6.564 (J)	[A2M2]
752	123.00	132.00	18.00	109.86	119.70	140.53	136.09	365.29	6.572 (J)	[PC]
753	118.00	137.00	12.00	116.10	125.15	128.41	131.03	36.75	6.620 (J)	[A2M2]
754	123.00	142.00	21.00	114.08	122.99	144.00	141.88	202.12	6.621 (J)	[PC]
755	108.00	147.00	24.00	115.09	124.07	125.85	130.95	19.75	6.639 (J)	[A2M2]
756	113.00	147.00	24.00	114.11	123.03	130.98	131.10	57.87	6.664 (J)	[PC]
757	103.00	142.00	24.00	107.78	118.48	124.28	130.91	37.32	6.667 (J)	[PC]
758	98.00	137.00	24.00	98.53	113.01	120.78	129.46	61.88	6.736 (J)	[PC]
759	108.00	152.00	30.00	113.66	122.54	129.48	131.06	46.89	6.762 (J)	[PC]
760	123.00	142.00	21.00	114.08	122.99	144.00	141.88	202.12	6.817 (J)	[PC]
761	113.00	147.00	24.00	114.11	123.03	130.98	131.10	57.87	6.884 (J)	[PC]
762	118.00	132.00	9.00	114.68	123.63	126.94	130.98	52.19	6.915 (J)	[PC]
763	108.00	147.00	24.00	115.09	124.07	125.85	130.95	19.75	6.930 (J)	[A2M2]
764	118.00	127.00	6.00	113.81	122.70	122.59	130.87	47.95	6.956 (J)	[A2M2]
765	98.00	127.00	15.00	97.08	112.03	111.63	120.73	31.96	6.998 (J)	[A2M2]
766	123.00	137.00	15.00	115.20	124.19	136.85	131.23	130.36	7.002 (J)	[A2M2]
767	133.00	137.00	15.00	120.30	129.02	146.71	143.07	242.98	7.033 (J)	[PC]
768	123.00	132.00	12.00	114.54	123.49	134.97	131.21	155.83	7.073 (J)	[A2M2]
769	118.00	127.00	6.00	113.81	122.70	122.59	130.87	47.95	7.092 (J)	[A2M2]
770	133.00	137.00	15.00	120.30	129.02	146.71	143.07	242.98	7.131 (J)	[PC]
771	123.00	137.00	15.00	115.20	124.19	136.85	131.23	130.36	7.145 (J)	[A2M2]
772	118.00	132.00	9.00	114.68	123.63	126.94	130.98	52.19	7.167 (J)	[PC]
773	98.00	122.00	12.00	94.80	110.44	109.77	119.64	49.08	7.188 (J)	[PC]
774	108.00	122.00	6.00	104.83	116.91	113.94	122.84	22.66	7.217 (J)	[A2M2]
775	123.00	132.00	12.00	114.54	123.49	134.97	131.21	155.83	7.223 (J)	[A2M2]
776	128.00	132.00	18.00	113.08	121.92	143.26	141.55	427.80	7.239 (J)	[A2M2]
777	128.00	132.00	18.00	113.08	121.92	143.26	141.55	427.80	7.258 (J)	[A2M2]
778	103.00	122.00	9.00	99.54	113.69	111.93	120.91	35.89	7.262 (J)	[A2M2]
779	113.00	127.00	6.00	112.18	121.06	118.94	127.81	16.33	7.277 (J)	[PC]
780	128.00	132.00	21.00	110.65	120.16	146.03	142.77	600.44	7.281 (J)	[PC]
781	98.00	127.00	15.00	97.08	112.03	111.63	120.73	31.96	7.292 (J)	[A2M2]
782	128.00	132.00	21.00	110.65	120.16	146.03	142.77	600.44	7.302 (J)	[PC]
783	143.00	147.00	9.00	140.99	138.23	151.97	147.70	38.94	7.323 (J)	[PC]
784	113.00	152.00	27.00	116.13	125.18	130.06	131.07	32.47	7.333 (J)	[A2M2]
785	113.00	122.00	15.00	100.22	114.15	125.05	130.93	336.82	7.339 (J)	[PC]
786	113.00	122.00	15.00	100.22	114.15	125.05	130.93	336.82	7.376 (J)	[PC]
787	113.00	142.00	18.00	115.14	124.13	127.24	130.99	29.84	7.377 (J)	[PC]
788	118.00	147.00	24.00	114.35	123.28	136.09	131.23	98.31	7.419 (J)	[PC]
789	98.00	147.00	30.00	108.48	118.89	123.30	130.89	20.02	7.423 (J)	[A2M2]
790	98.00	122.00	12.00	94.80	110.44	109.77	119.64	49.08	7.469 (J)	[PC]
791	103.00	147.00	27.00	113.13	121.97	124.69	130.92	21.78	7.498 (J)	[PC]
792	108.00	122.00	6.00	104.83	116.91	113.94	122.84	22.66	7.514 (J)	[A2M2]
793	103.00	122.00	9.00	99.54	113.69	111.93	120.91	35.89	7.561 (J)	[A2M2]
794	113.00	152.00	27.00	116.13	125.18	130.06	131.07	32.47	7.601 (J)	[A2M2]
795	118.00	147.00	24.00	114.35	123.28	136.09	131.23	98.31	7.609 (J)	[PC]
796	113.00	127.00	6.00	112.18	121.06	118.94	127.81	16.33	7.612 (J)	[PC]
797	143.00	147.00	9.00	140.99	138.23	151.97	147.70	38.94	7.623 (J)	[PC]
798	138.00	142.00	6.00	140.64	136.61	144.00	141.87	8.32	7.632 (J)	[A2M2]

799	98.00	142.00	27.00	101.90	115.28	122.60	130.87	39.45	7.646 (J)	[PC]
800	118.00	142.00	18.00	115.22	124.22	132.35	131.14	64.81	7.656 (J)	[PC]
801	113.00	142.00	18.00	115.14	124.13	127.24	130.99	29.84	7.668 (J)	[PC]
802	118.00	152.00	27.00	116.02	125.07	135.24	131.22	62.96	7.673 (J)	[A2M2]
803	123.00	132.00	15.00	112.50	121.29	137.98	131.24	248.09	7.708 (J)	[PC]
804	113.00	132.00	9.00	114.16	123.07	121.86	130.43	13.75	7.756 (J)	[A2M2]
805	98.00	147.00	30.00	108.48	118.89	123.30	130.89	20.02	7.787 (J)	[A2M2]
806	103.00	147.00	27.00	113.13	121.97	124.69	130.92	21.78	7.841 (J)	[PC]
807	123.00	132.00	15.00	112.50	121.29	137.98	131.24	248.09	7.844 (J)	[PC]
808	118.00	142.00	18.00	115.22	124.22	132.35	131.14	64.81	7.883 (J)	[PC]
809	118.00	152.00	27.00	116.02	125.07	135.24	131.22	62.96	7.892 (J)	[A2M2]
810	118.00	132.00	6.00	116.98	126.09	123.90	130.90	13.52	7.931 (J)	[A2M2]
811	123.00	137.00	18.00	113.12	121.96	140.97	138.12	220.56	7.967 (J)	[PC]
812	128.00	137.00	15.00	117.36	126.43	142.41	141.17	177.87	7.969 (J)	[PC]
813	118.00	137.00	12.00	116.10	125.15	128.41	131.03	36.75	7.991 (J)	[PC]
814	98.00	142.00	27.00	101.90	115.28	122.60	130.87	39.45	7.997 (J)	[PC]
815	113.00	122.00	12.00	102.71	115.83	121.69	130.27	201.27	8.014 (J)	[A2M2]
816	133.00	137.00	12.00	122.68	130.87	143.97	141.86	124.77	8.036 (J)	[PC]
817	138.00	137.00	15.00	124.29	130.91	150.31	145.57	290.47	8.047 (J)	[PC]
818	113.00	122.00	12.00	102.71	115.83	121.69	130.27	201.27	8.064 (J)	[A2M2]
819	138.00	142.00	6.00	140.64	136.61	144.00	141.87	8.32	8.086 (J)	[A2M2]
820	128.00	137.00	15.00	117.36	126.43	142.41	141.17	177.87	8.114 (J)	[PC]
821	123.00	142.00	18.00	116.25	125.31	137.43	131.24	97.26	8.124 (J)	[A2M2]
822	138.00	137.00	15.00	124.29	130.91	150.31	145.57	290.47	8.129 (J)	[PC]
823	123.00	137.00	18.00	113.12	121.96	140.97	138.12	220.56	8.147 (J)	[PC]
824	113.00	132.00	9.00	114.16	123.07	121.86	130.43	13.75	8.152 (J)	[A2M2]
825	133.00	132.00	24.00	111.77	120.81	151.58	147.19	867.24	8.193 (J)	[A2M2]
826	133.00	157.00	21.00	140.84	137.52	151.54	147.14	18.30	8.200 (J)	[A2M2]
827	133.00	137.00	12.00	122.68	130.87	143.97	141.86	124.77	8.205 (J)	[PC]
828	133.00	132.00	24.00	111.77	120.81	151.58	147.19	867.24	8.246 (J)	[A2M2]
829	118.00	137.00	12.00	116.10	125.15	128.41	131.03	36.75	8.275 (J)	[PC]
830	108.00	147.00	24.00	115.09	124.07	125.85	130.95	19.75	8.299 (J)	[PC]
831	123.00	142.00	18.00	116.25	125.31	137.43	131.24	97.26	8.301 (J)	[A2M2]
832	118.00	132.00	6.00	116.98	126.09	123.90	130.90	13.52	8.304 (J)	[A2M2]
833	108.00	127.00	9.00	107.34	118.02	116.95	126.06	17.09	8.354 (J)	[A2M2]
834	113.00	122.00	9.00	105.47	117.07	119.46	128.26	111.29	8.365 (J)	[A2M2]
835	118.00	147.00	21.00	116.92	126.03	131.74	131.12	37.85	8.420 (J)	[A2M2]
836	113.00	122.00	9.00	105.47	117.07	119.46	128.26	111.29	8.456 (J)	[A2M2]
837	133.00	157.00	21.00	140.84	137.52	151.54	147.14	18.30	8.594 (J)	[A2M2]
838	123.00	132.00	9.00	116.59	125.68	131.96	131.13	84.48	8.641 (J)	[A2M2]
839	108.00	147.00	24.00	115.09	124.07	125.85	130.95	19.75	8.662 (J)	[PC]
840	118.00	127.00	6.00	113.81	122.70	122.59	130.87	47.95	8.695 (J)	[PC]
841	118.00	147.00	21.00	116.92	126.03	131.74	131.12	37.85	8.697 (J)	[A2M2]
842	98.00	127.00	15.00	97.08	112.03	111.63	120.73	31.96	8.748 (J)	[PC]
843	123.00	137.00	15.00	115.20	124.19	136.85	131.23	130.36	8.752 (J)	[PC]
844	108.00	127.00	9.00	107.34	118.02	116.95	126.06	17.09	8.778 (J)	[A2M2]
845	138.00	147.00	9.00	141.05	138.53	145.92	142.72	7.02	8.814 (J)	[A2M2]
846	103.00	127.00	12.00	101.60	115.08	114.44	123.38	22.21	8.840 (J)	[A2M2]
847	123.00	132.00	12.00	114.54	123.49	134.97	131.21	155.83	8.841 (J)	[PC]
848	123.00	132.00	9.00	116.59	125.68	131.96	131.13	84.48	8.863 (J)	[A2M2]
849	118.00	127.00	6.00	113.81	122.70	122.59	130.87	47.95	8.865 (J)	[PC]

850	133.00	132.00	21.00	114.05	122.96	149.68	144.76	678.93	8.883 (J)	[A2M2]
851	133.00	132.00	21.00	114.05	122.96	149.68	144.76	678.93	8.923 (J)	[A2M2]
852	123.00	137.00	15.00	115.20	124.19	136.85	131.23	130.36	8.931 (J)	[PC]
853	108.00	132.00	12.00	111.05	120.39	119.38	128.19	10.21	9.009 (J)	[A2M2]
854	108.00	122.00	6.00	104.83	116.91	113.94	122.84	22.66	9.021 (J)	[PC]
855	123.00	132.00	12.00	114.54	123.49	134.97	131.21	155.83	9.029 (J)	[PC]
856	123.00	137.00	12.00	117.35	126.41	133.49	131.17	63.68	9.042 (J)	[A2M2]
857	128.00	132.00	18.00	113.08	121.92	143.26	141.55	427.80	9.049 (J)	[PC]
858	128.00	132.00	18.00	113.08	121.92	143.26	141.55	427.80	9.072 (J)	[PC]
859	103.00	122.00	9.00	99.54	113.69	111.93	120.91	35.89	9.077 (J)	[PC]
860	98.00	127.00	15.00	97.08	112.03	111.63	120.73	31.96	9.115 (J)	[PC]
861	113.00	152.00	27.00	116.13	125.18	130.06	131.07	32.47	9.166 (J)	[PC]
862	138.00	147.00	9.00	141.05	138.53	145.92	142.72	7.02	9.245 (J)	[A2M2]
863	103.00	127.00	12.00	101.60	115.08	114.44	123.38	22.21	9.245 (J)	[A2M2]
864	123.00	137.00	12.00	117.35	126.41	133.49	131.17	63.68	9.270 (J)	[A2M2]
865	98.00	147.00	30.00	108.48	118.89	123.30	130.89	20.02	9.279 (J)	[PC]
866	113.00	147.00	21.00	117.41	126.47	126.57	130.97	13.21	9.322 (J)	[A2M2]
867	108.00	122.00	6.00	104.83	116.91	113.94	122.84	22.66	9.393 (J)	[PC]
868	103.00	122.00	9.00	99.54	113.69	111.93	120.91	35.89	9.452 (J)	[PC]
869	108.00	132.00	12.00	111.05	120.39	119.38	128.19	10.21	9.477 (J)	[A2M2]
870	113.00	152.00	27.00	116.13	125.18	130.06	131.07	32.47	9.501 (J)	[PC]
871	138.00	142.00	6.00	140.64	136.61	144.00	141.87	8.32	9.540 (J)	[PC]
872	118.00	142.00	15.00	118.02	127.00	128.22	131.02	18.56	9.577 (J)	[A2M2]
873	118.00	152.00	27.00	116.02	125.07	135.24	131.22	62.96	9.591 (J)	[PC]
874	128.00	132.00	15.00	115.20	124.19	141.19	139.15	291.08	9.632 (J)	[A2M2]
875	128.00	132.00	15.00	115.20	124.19	141.19	139.15	291.08	9.661 (J)	[A2M2]
876	113.00	132.00	9.00	114.16	123.07	121.86	130.43	13.75	9.695 (J)	[PC]
877	113.00	137.00	12.00	116.42	125.50	123.33	130.89	7.58	9.721 (J)	[A2M2]
878	113.00	147.00	21.00	117.41	126.47	126.57	130.97	13.21	9.726 (J)	[A2M2]
879	98.00	147.00	30.00	108.48	118.89	123.30	130.89	20.02	9.733 (J)	[PC]
880	118.00	152.00	27.00	116.02	125.07	135.24	131.22	62.96	9.865 (J)	[PC]
881	118.00	132.00	6.00	116.98	126.09	123.90	130.90	13.52	9.913 (J)	[PC]
882	118.00	142.00	15.00	118.02	127.00	128.22	131.02	18.56	9.948 (J)	[A2M2]
883	113.00	122.00	12.00	102.71	115.83	121.69	130.27	201.27	10.018 (J)	[PC]
884	113.00	122.00	12.00	102.71	115.83	121.69	130.27	201.27	10.080 (J)	[PC]
885	138.00	142.00	6.00	140.64	136.61	144.00	141.87	8.32	10.108 (J)	[PC]
886	123.00	142.00	18.00	116.25	125.31	137.43	131.24	97.26	10.155 (J)	[PC]
887	113.00	132.00	9.00	114.16	123.07	121.86	130.43	13.75	10.190 (J)	[PC]
888	113.00	137.00	12.00	116.42	125.50	123.33	130.89	7.58	10.208 (J)	[A2M2]
889	133.00	132.00	24.00	111.77	120.81	151.58	147.19	867.24	10.241 (J)	[PC]
890	133.00	157.00	21.00	140.84	137.52	151.54	147.14	18.30	10.250 (J)	[PC]
891	133.00	132.00	24.00	111.77	120.81	151.58	147.19	867.24	10.307 (J)	[PC]
892	123.00	142.00	18.00	116.25	125.31	137.43	131.24	97.26	10.376 (J)	[PC]
893	118.00	132.00	6.00	116.98	126.09	123.90	130.90	13.52	10.380 (J)	[PC]
894	108.00	127.00	9.00	107.34	118.02	116.95	126.06	17.09	10.442 (J)	[PC]
895	143.00	142.00	3.00	141.27	139.55	145.91	142.72	10.33	10.448 (J)	[A2M2]
896	113.00	122.00	9.00	105.47	117.07	119.46	128.26	111.29	10.457 (J)	[PC]
897	113.00	122.00	6.00	108.04	118.63	117.20	126.28	48.14	10.502 (J)	[A2M2]
898	118.00	147.00	21.00	116.92	126.03	131.74	131.12	37.85	10.524 (J)	[PC]
899	113.00	122.00	9.00	105.47	117.07	119.46	128.26	111.29	10.570 (J)	[PC]
900	123.00	147.00	21.00	117.66	126.69	136.87	131.23	62.27	10.657 (J)	[A2M2]

901	113.00	122.00	6.00	108.04	118.63	117.20	126.28	48.14	10.671 (J)	[A2M2]
902	133.00	157.00	21.00	140.84	137.52	151.54	147.14	18.30	10.742 (J)	[PC]
903	123.00	132.00	9.00	116.59	125.68	131.96	131.13	84.48	10.801 (J)	[PC]
904	143.00	142.00	3.00	141.27	139.55	145.91	142.72	10.33	10.848 (J)	[A2M2]
905	118.00	147.00	21.00	116.92	126.03	131.74	131.12	37.85	10.871 (J)	[PC]
906	123.00	147.00	21.00	117.66	126.69	136.87	131.23	62.27	10.916 (J)	[A2M2]
907	108.00	127.00	9.00	107.34	118.02	116.95	126.06	17.09	10.972 (J)	[PC]
908	138.00	147.00	9.00	141.05	138.53	145.92	142.72	7.02	11.017 (J)	[PC]
909	103.00	127.00	12.00	101.60	115.08	114.44	123.38	22.21	11.050 (J)	[PC]
910	123.00	132.00	9.00	116.59	125.68	131.96	131.13	84.48	11.078 (J)	[PC]
911	133.00	132.00	21.00	114.05	122.96	149.68	144.76	678.93	11.104 (J)	[PC]
912	133.00	137.00	9.00	126.32	130.97	141.41	140.21	36.56	11.147 (J)	[A2M2]
913	133.00	132.00	21.00	114.05	122.96	149.68	144.76	678.93	11.153 (J)	[PC]
914	118.00	127.00	3.00	115.86	124.90	120.25	128.98	11.91	11.240 (J)	[A2M2]
915	108.00	132.00	12.00	111.05	120.39	119.38	128.19	10.21	11.261 (J)	[PC]
916	123.00	137.00	12.00	117.35	126.41	133.49	131.17	63.68	11.302 (J)	[PC]
917	98.00	132.00	18.00	100.20	114.14	112.38	121.17	13.54	11.464 (J)	[A2M2]
918	118.00	157.00	30.00	118.02	127.00	133.25	131.17	31.46	11.480 (J)	[A2M2]
919	133.00	132.00	18.00	116.28	125.34	147.07	143.23	496.89	11.484 (J)	[A2M2]
920	133.00	137.00	9.00	126.32	130.97	141.41	140.21	36.56	11.515 (J)	[A2M2]
921	133.00	132.00	18.00	116.28	125.34	147.07	143.23	496.89	11.554 (J)	[A2M2]
922	138.00	147.00	9.00	141.05	138.53	145.92	142.72	7.02	11.556 (J)	[PC]
923	103.00	127.00	12.00	101.60	115.08	114.44	123.38	22.21	11.557 (J)	[PC]
924	118.00	127.00	3.00	115.86	124.90	120.25	128.98	11.91	11.563 (J)	[A2M2]
925	123.00	137.00	12.00	117.35	126.41	133.49	131.17	63.68	11.588 (J)	[PC]
926	113.00	147.00	21.00	117.41	126.47	126.57	130.97	13.21	11.652 (J)	[PC]
927	108.00	132.00	12.00	111.05	120.39	119.38	128.19	10.21	11.846 (J)	[PC]
928	118.00	157.00	30.00	118.02	127.00	133.25	131.17	31.46	11.855 (J)	[A2M2]
929	123.00	132.00	6.00	118.82	127.70	128.92	131.04	34.44	11.867 (J)	[A2M2]
930	118.00	142.00	15.00	118.02	127.00	128.22	131.02	18.56	11.972 (J)	[PC]
931	98.00	132.00	18.00	100.20	114.14	112.38	121.17	13.54	12.003 (J)	[A2M2]
932	128.00	132.00	15.00	115.20	124.19	141.19	139.15	291.08	12.040 (J)	[PC]
933	128.00	132.00	15.00	115.20	124.19	141.19	139.15	291.08	12.076 (J)	[PC]
934	98.00	122.00	9.00	98.54	113.02	105.54	117.09	7.00	12.118 (J)	[A2M2]
935	113.00	137.00	12.00	116.42	125.50	123.33	130.89	7.58	12.151 (J)	[PC]
936	113.00	147.00	21.00	117.41	126.47	126.57	130.97	13.21	12.157 (J)	[PC]
937	123.00	132.00	6.00	118.82	127.70	128.92	131.04	34.44	12.237 (J)	[A2M2]
938	128.00	132.00	12.00	117.37	126.43	139.93	133.30	187.89	12.316 (J)	[A2M2]
939	123.00	142.00	15.00	118.73	127.62	133.38	131.17	37.90	12.428 (J)	[A2M2]
940	118.00	142.00	15.00	118.02	127.00	128.22	131.02	18.56	12.435 (J)	[PC]
941	128.00	132.00	12.00	117.37	126.43	139.93	133.30	187.89	12.459 (J)	[A2M2]
942	98.00	122.00	9.00	98.54	113.02	105.54	117.09	7.00	12.703 (J)	[A2M2]
943	113.00	137.00	12.00	116.42	125.50	123.33	130.89	7.58	12.760 (J)	[PC]
944	123.00	142.00	15.00	118.73	127.62	133.38	131.17	37.90	12.771 (J)	[A2M2]
945	118.00	137.00	9.00	119.26	128.09	124.64	130.92	5.23	12.834 (J)	[A2M2]
946	103.00	132.00	15.00	107.19	117.60	116.61	125.70	8.39	12.928 (J)	[A2M2]
947	143.00	142.00	3.00	141.27	139.55	145.91	142.72	10.33	13.060 (J)	[PC]
948	113.00	122.00	6.00	108.04	118.63	117.20	126.28	48.14	13.128 (J)	[PC]
949	123.00	147.00	21.00	117.66	126.69	136.87	131.23	62.27	13.322 (J)	[PC]
950	108.00	137.00	15.00	114.57	123.52	121.15	129.79	5.16	13.325 (J)	[A2M2]
951	113.00	122.00	6.00	108.04	118.63	117.20	126.28	48.14	13.339 (J)	[PC]

952	118.00	137.00	9.00	119.26	128.09	124.64	130.92	5.23	13.441 (J)	[A2M2]
953	143.00	142.00	3.00	141.27	139.55	145.91	142.72	10.33	13.560 (J)	[PC]
954	103.00	132.00	15.00	107.19	117.60	116.61	125.70	8.39	13.601 (J)	[A2M2]
955	123.00	147.00	21.00	117.66	126.69	136.87	131.23	62.27	13.646 (J)	[PC]
956	113.00	122.00	3.00	110.64	120.15	115.13	124.11	11.49	13.657 (J)	[A2M2]
957	123.00	157.00	30.00	118.42	127.35	138.38	131.24	51.90	13.681 (J)	[A2M2]
958	133.00	137.00	9.00	126.32	130.97	141.41	140.21	36.56	13.934 (J)	[PC]
959	123.00	157.00	30.00	118.42	127.35	138.38	131.24	51.90	14.017 (J)	[A2M2]
960	108.00	137.00	15.00	114.57	123.52	121.15	129.79	5.16	14.035 (J)	[A2M2]
961	113.00	122.00	3.00	110.64	120.15	115.13	124.11	11.49	14.040 (J)	[A2M2]
962	118.00	127.00	3.00	115.86	124.90	120.25	128.98	11.91	14.050 (J)	[PC]
963	98.00	132.00	18.00	100.20	114.14	112.38	121.17	13.54	14.329 (J)	[PC]
964	118.00	157.00	30.00	118.02	127.00	133.25	131.17	31.46	14.349 (J)	[PC]
965	133.00	132.00	18.00	116.28	125.34	147.07	143.23	496.89	14.355 (J)	[PC]
966	133.00	137.00	9.00	126.32	130.97	141.41	140.21	36.56	14.394 (J)	[PC]
967	133.00	132.00	18.00	116.28	125.34	147.07	143.23	496.89	14.442 (J)	[PC]
968	118.00	127.00	3.00	115.86	124.90	120.25	128.98	11.91	14.454 (J)	[PC]
969	118.00	152.00	24.00	119.19	128.03	129.73	131.06	14.76	14.613 (J)	[A2M2]
970	118.00	157.00	30.00	118.02	127.00	133.25	131.17	31.46	14.819 (J)	[PC]
971	123.00	132.00	6.00	118.82	127.70	128.92	131.04	34.44	14.834 (J)	[PC]
972	98.00	132.00	18.00	100.20	114.14	112.38	121.17	13.54	15.004 (J)	[PC]
973	98.00	122.00	9.00	98.54	113.02	105.54	117.09	7.00	15.147 (J)	[PC]
974	118.00	152.00	24.00	119.19	128.03	129.73	131.06	14.76	15.163 (J)	[A2M2]
975	123.00	132.00	6.00	118.82	127.70	128.92	131.04	34.44	15.296 (J)	[PC]
976	128.00	132.00	12.00	117.37	126.43	139.93	133.30	187.89	15.395 (J)	[PC]
977	123.00	142.00	15.00	118.73	127.62	133.38	131.17	37.90	15.534 (J)	[PC]
978	128.00	132.00	12.00	117.37	126.43	139.93	133.30	187.89	15.573 (J)	[PC]
979	123.00	137.00	9.00	119.81	128.58	129.77	131.07	19.33	15.609 (J)	[A2M2]
980	98.00	122.00	9.00	98.54	113.02	105.54	117.09	7.00	15.878 (J)	[PC]
981	123.00	142.00	15.00	118.73	127.62	133.38	131.17	37.90	15.964 (J)	[PC]
982	118.00	137.00	9.00	119.26	128.09	124.64	130.92	5.23	16.043 (J)	[PC]
983	123.00	137.00	9.00	119.81	128.58	129.77	131.07	19.33	16.102 (J)	[A2M2]
984	103.00	132.00	15.00	107.19	117.60	116.61	125.70	8.39	16.160 (J)	[PC]
985	108.00	137.00	15.00	114.57	123.52	121.15	129.79	5.16	16.656 (J)	[PC]
986	118.00	137.00	9.00	119.26	128.09	124.64	130.92	5.23	16.801 (J)	[PC]
987	103.00	132.00	15.00	107.19	117.60	116.61	125.70	8.39	17.002 (J)	[PC]
988	113.00	122.00	3.00	110.64	120.15	115.13	124.11	11.49	17.071 (J)	[PC]
989	123.00	157.00	30.00	118.42	127.35	138.38	131.24	51.90	17.102 (J)	[PC]
990	123.00	152.00	24.00	119.46	128.26	135.00	131.22	30.07	17.341 (J)	[A2M2]
991	123.00	157.00	30.00	118.42	127.35	138.38	131.24	51.90	17.521 (J)	[PC]
992	108.00	137.00	15.00	114.57	123.52	121.15	129.79	5.16	17.543 (J)	[PC]
993	113.00	122.00	3.00	110.64	120.15	115.13	124.11	11.49	17.550 (J)	[PC]
994	128.00	137.00	12.00	119.62	128.41	138.53	131.24	82.89	17.564 (J)	[A2M2]
995	128.00	137.00	12.00	119.62	128.41	138.53	131.24	82.89	17.767 (J)	[A2M2]
996	123.00	152.00	24.00	119.46	128.26	135.00	131.22	30.07	17.820 (J)	[A2M2]
997	118.00	152.00	24.00	119.19	128.03	129.73	131.06	14.76	18.266 (J)	[PC]
998	118.00	152.00	24.00	119.19	128.03	129.73	131.06	14.76	18.954 (J)	[PC]
999	123.00	137.00	9.00	119.81	128.58	129.77	131.07	19.33	19.511 (J)	[PC]
1000	123.00	137.00	9.00	119.81	128.58	129.77	131.07	19.33	20.128 (J)	[PC]
1001	143.00	147.00	6.00	142.15	141.06	147.67	143.23	3.79	20.734 (J)	[A2M2]
1002	128.00	132.00	9.00	119.71	128.49	136.97	131.23	105.34	20.799 (J)	[A2M2]

1003	128.00	132.00	9.00	119.71	128.49	136.97	131.23	105.34	21.033 (J) [A2M2]
1004	123.00	152.00	24.00	119.46	128.26	135.00	131.22	30.07	21.676 (J) [PC]
1005	143.00	147.00	6.00	142.15	141.06	147.67	143.23	3.79	21.717 (J) [A2M2]
1006	133.00	132.00	15.00	118.67	127.57	144.21	141.97	332.45	21.752 (J) [A2M2]
1007	128.00	137.00	12.00	119.62	128.41	138.53	131.24	82.89	21.954 (J) [PC]
1008	133.00	132.00	15.00	118.67	127.57	144.21	141.97	332.45	22.183 (J) [A2M2]
1009	128.00	137.00	12.00	119.62	128.41	138.53	131.24	82.89	22.209 (J) [PC]
1010	123.00	152.00	24.00	119.46	128.26	135.00	131.22	30.07	22.275 (J) [PC]
1011	128.00	142.00	15.00	120.37	129.08	138.45	131.24	52.44	22.683 (J) [A2M2]
1012	128.00	142.00	15.00	120.37	129.08	138.45	131.24	52.44	22.970 (J) [A2M2]
1013	123.00	147.00	18.00	120.47	129.18	131.46	131.11	14.02	25.355 (J) [A2M2]
1014	143.00	147.00	6.00	142.15	141.06	147.67	143.23	3.79	25.918 (J) [PC]
1015	128.00	132.00	9.00	119.71	128.49	136.97	131.23	105.34	25.999 (J) [PC]
1016	123.00	147.00	18.00	120.47	129.18	131.46	131.11	14.02	26.136 (J) [A2M2]
1017	128.00	132.00	9.00	119.71	128.49	136.97	131.23	105.34	26.292 (J) [PC]
1018	123.00	132.00	3.00	121.06	129.71	125.81	130.95	6.31	26.378 (J) [A2M2]
1019	143.00	147.00	6.00	142.15	141.06	147.67	143.23	3.79	27.146 (J) [PC]
1020	133.00	132.00	15.00	118.67	127.57	144.21	141.97	332.45	27.190 (J) [PC]
1021	123.00	132.00	3.00	121.06	129.71	125.81	130.95	6.31	27.345 (J) [A2M2]
1022	133.00	132.00	15.00	118.67	127.57	144.21	141.97	332.45	27.729 (J) [PC]
1023	128.00	142.00	15.00	120.37	129.08	138.45	131.24	52.44	28.353 (J) [PC]
1024	128.00	142.00	15.00	120.37	129.08	138.45	131.24	52.44	28.713 (J) [PC]
1025	123.00	147.00	18.00	120.47	129.18	131.46	131.11	14.02	31.693 (J) [PC]
1026	123.00	147.00	18.00	120.47	129.18	131.46	131.11	14.02	32.670 (J) [PC]
1027	123.00	132.00	3.00	121.06	129.71	125.81	130.95	6.31	32.972 (J) [PC]
1028	123.00	132.00	3.00	121.06	129.71	125.81	130.95	6.31	34.182 (J) [PC]
1029	138.00	132.00	21.00	117.68	126.70	151.96	147.69	708.58	35.103 (J) [A2M2]
1030	138.00	132.00	21.00	117.68	126.70	151.96	147.69	708.58	37.294 (J) [A2M2]
1031	128.00	137.00	9.00	121.86	130.42	134.89	131.21	27.86	42.305 (J) [A2M2]
1032	128.00	137.00	9.00	121.86	130.42	134.89	131.21	27.86	42.562 (J) [A2M2]
1033	138.00	132.00	21.00	117.68	126.70	151.96	147.69	708.58	43.879 (J) [PC]
1034	128.00	147.00	18.00	121.59	130.18	136.68	131.23	21.82	45.214 (J) [A2M2]
1035	128.00	147.00	18.00	121.59	130.18	136.68	131.23	21.82	45.768 (J) [A2M2]
1036	138.00	132.00	21.00	117.68	126.70	151.96	147.69	708.58	46.617 (J) [PC]
1037	128.00	132.00	6.00	122.15	130.68	133.94	131.19	44.53	51.643 (J) [A2M2]
1038	128.00	132.00	6.00	122.15	130.68	133.94	131.19	44.53	51.678 (J) [A2M2]
1039	138.00	132.00	18.00	120.26	128.98	150.11	145.32	531.98	52.473 (J) [A2M2]
1040	128.00	137.00	9.00	121.86	130.42	134.89	131.21	27.86	52.881 (J) [PC]
1041	128.00	137.00	9.00	121.86	130.42	134.89	131.21	27.86	53.203 (J) [PC]
1042	128.00	147.00	18.00	121.59	130.18	136.68	131.23	21.82	56.518 (J) [PC]
1043	138.00	132.00	18.00	120.26	128.98	150.11	145.32	531.98	57.179 (J) [A2M2]
1044	128.00	147.00	18.00	121.59	130.18	136.68	131.23	21.82	57.210 (J) [PC]
1045	133.00	132.00	6.00	127.09	130.99	138.95	131.25	46.02	57.259 (J) [A2M2]
1046	133.00	132.00	6.00	127.09	130.99	138.95	131.25	46.02	57.414 (J) [A2M2]
1047	133.00	132.00	9.00	124.07	130.91	140.66	136.72	111.01	64.027 (J) [A2M2]
1048	128.00	132.00	6.00	122.15	130.68	133.94	131.19	44.53	64.554 (J) [PC]
1049	128.00	132.00	6.00	122.15	130.68	133.94	131.19	44.53	64.598 (J) [PC]
1050	138.00	132.00	18.00	120.26	128.98	150.11	145.32	531.98	65.591 (J) [PC]
1051	133.00	132.00	9.00	124.07	130.91	140.66	136.72	111.01	66.962 (J) [A2M2]
1052	138.00	132.00	18.00	120.26	128.98	150.11	145.32	531.98	71.473 (J) [PC]
1053	133.00	132.00	6.00	127.09	130.99	138.95	131.25	46.02	71.573 (J) [PC]

1054	133.00	132.00	6.00	127.09	130.99	138.95	131.25	46.02	71.768 (J) [PC]
1055	138.00	132.00	15.00	123.04	130.88	147.94	143.23	371.36	72.954 (J) [A2M2]
1056	133.00	132.00	9.00	124.07	130.91	140.66	136.72	111.01	80.034 (J) [PC]
1057	138.00	132.00	15.00	123.04	130.88	147.94	143.23	371.36	81.062 (J) [A2M2]
1058	133.00	132.00	9.00	124.07	130.91	140.66	136.72	111.01	83.702 (J) [PC]
1059	128.00	132.00	3.00	125.20	130.93	130.86	131.10	8.30	85.848 (J) [A2M2]
1060	128.00	132.00	3.00	125.20	130.93	130.86	131.10	8.30	86.637 (J) [A2M2]
1061	133.00	132.00	3.00	130.15	131.08	135.90	131.22	9.10	86.848 (J) [A2M2]
1062	133.00	132.00	3.00	130.15	131.08	135.90	131.22	9.10	87.552 (J) [A2M2]
1063	128.00	157.00	27.00	122.11	130.65	136.04	131.23	10.00	87.948 (J) [A2M2]
1064	128.00	157.00	27.00	122.11	130.65	136.04	131.23	10.00	89.120 (J) [A2M2]
1065	138.00	132.00	15.00	123.04	130.88	147.94	143.23	371.36	91.192 (J) [PC]
1066	133.00	142.00	12.00	128.16	131.02	138.32	131.24	7.93	92.287 (J) [A2M2]
1067	133.00	142.00	12.00	128.16	131.02	138.32	131.24	7.93	93.164 (J) [A2M2]
1068	128.00	142.00	12.00	123.47	130.89	133.15	131.16	6.62	97.347 (J) [A2M2]
1069	128.00	142.00	12.00	123.47	130.89	133.15	131.16	6.62	98.585 (J) [A2M2]
1070	138.00	132.00	15.00	123.04	130.88	147.94	143.23	371.36	101.327 (J) [PC]
1071	128.00	132.00	3.00	125.20	130.93	130.86	131.10	8.30	107.309 (J) [PC]
1072	128.00	132.00	3.00	125.20	130.93	130.86	131.10	8.30	108.296 (J) [PC]
1073	133.00	132.00	3.00	130.15	131.08	135.90	131.22	9.10	108.559 (J) [PC]
1074	133.00	132.00	3.00	130.15	131.08	135.90	131.22	9.10	109.440 (J) [PC]
1075	128.00	157.00	27.00	122.11	130.65	136.04	131.23	10.00	109.935 (J) [PC]
1076	128.00	157.00	27.00	122.11	130.65	136.04	131.23	10.00	111.400 (J) [PC]
1077	133.00	142.00	12.00	128.16	131.02	138.32	131.24	7.93	115.358 (J) [PC]
1078	133.00	142.00	12.00	128.16	131.02	138.32	131.24	7.93	116.455 (J) [PC]
1079	128.00	142.00	12.00	123.47	130.89	133.15	131.16	6.62	121.684 (J) [PC]
1080	128.00	142.00	12.00	123.47	130.89	133.15	131.16	6.62	123.231 (J) [PC]
1081	138.00	132.00	3.00	135.10	131.22	140.11	134.13	9.82	133.525 (J) [A2M2]
1082	138.00	132.00	3.00	135.10	131.22	140.11	134.13	9.82	138.833 (J) [A2M2]
1083	138.00	132.00	3.00	135.10	131.22	140.11	134.13	9.82	166.907 (J) [PC]
1084	138.00	132.00	3.00	135.10	131.22	140.11	134.13	9.82	173.541 (J) [PC]

Analisi della superficie critica

Simbologia adottata

Le ascisse X sono considerate positive verso destra
Le ordinate Y sono considerate positive verso l'alto
Le strisce sono numerate da valle verso monte

N°	numero d'ordine della striscia
X_s	ascissa sinistra della striscia espressa in m
Y_{ss}	ordinata superiore sinistra della striscia espressa in m
Y_{si}	ordinata inferiore sinistra della striscia espressa in m
X_g	ascissa del baricentro della striscia espressa in m
Y_g	ordinata del baricentro della striscia espressa in m
α	angolo fra la base della striscia e l'orizzontale espresso °(positivo antiorario)
ϕ	angolo d'attrito del terreno lungo la base della striscia
c	coesione del terreno lungo la base della striscia espressa in kPa
L	sviluppo della base della striscia espressa in m(L=b/cosα)
u	pressione neutra lungo la base della striscia espressa in kPa
W	peso della striscia espresso in kN
Q	carico applicato sulla striscia espresso in kN
N	sforzo normale alla base della striscia espresso in kN
T	sforzo tangenziale alla base della striscia espresso in kN
U	pressione neutra alla base della striscia espressa in kN
E_s, E_d	forze orizzontali sulla striscia a sinistra e a destra espresse in kN
X_s, X_d	forze verticali sulla striscia a sinistra e a destra espresse in kN
ID	Indice della superficie interessata dall'intervento

Analisi della superficie 1 - coefficienti parziali caso A2M2 e sisma verso il basso

Numero di strisce	30	
Coordinate del centro	X[m]= 98.00	Y[m]= 127.00
Raggio del cerchio	R[m]= 30.00	
Intersezione a valle con il profilo topografico	X_v[m]= 75.66	Y_v[m]= 106.97
Intersezione a monte con il profilo topografico	X_m[m]= 127.73	Y_m[m]= 131.01
Coefficiente di sicurezza	C_S= 2.808	

Geometria e caratteristiche strisce

N°	X_s	Y_{ss}	Y_{si}	X_d	Y_{ds}	Y_{di}	X_g	Y_g	L	α	ϕ	c
1	75.66	106.97	106.97	75.92	107.08	106.69	75.83	106.91	0.38	-47.76	41.62	6
2	75.92	107.08	106.69	78.00	107.98	104.64	77.23	106.52	2.92	-44.60	41.62	6
3	78.00	107.98	104.64	78.43	108.17	104.26	78.22	106.26	0.57	-41.26	41.62	6
4	78.43	108.17	104.26	81.43	108.30	101.99	80.08	105.52	3.76	-37.12	41.90	40
5	81.43	108.30	101.99	82.21	108.33	101.49	81.83	104.76	0.93	-32.64	42.62	128
6	82.21	108.33	101.49	82.95	108.35	101.05	82.59	104.50	0.86	-30.93	42.62	128
7	82.95	108.35	101.05	84.21	108.39	100.36	83.59	104.23	1.44	-28.74	42.62	128
8	84.21	108.39	100.36	84.84	108.74	100.04	84.53	104.08	0.71	-26.69	42.62	128
9	84.84	108.74	100.04	87.81	109.77	98.78	86.39	104.01	3.23	-22.94	42.62	128
10	87.81	109.77	98.78	89.94	110.09	98.10	88.89	103.89	2.24	-17.72	42.62	128
11	89.94	110.09	98.10	90.46	110.09	97.96	90.20	103.80	0.54	-15.07	42.62	128
12	90.46	110.09	97.96	91.61	110.08	97.69	91.04	103.72	1.18	-13.43	42.62	128

13	91.61	110.08	97.69	93.06	110.22	97.41	92.34	103.64	1.48	-10.89	42.62	128
14	93.06	110.22	97.41	95.72	110.55	97.09	94.41	103.67	2.68	-6.92	42.62	128
15	95.72	110.55	97.09	95.79	111.16	97.08	95.76	103.97	0.07	-4.29	42.62	128
16	95.79	111.16	97.08	98.52	113.00	97.00	97.19	104.57	2.73	-1.61	42.62	128
17	98.52	113.00	97.00	101.26	114.85	97.18	99.91	105.52	2.74	3.62	42.62	128
18	101.26	114.85	97.18	103.99	116.69	97.60	102.64	106.59	2.77	8.87	42.62	128
19	103.99	116.69	97.60	107.15	117.50	98.43	105.57	107.56	3.27	14.64	42.62	128
20	107.15	117.50	98.43	107.44	118.28	98.52	107.30	108.18	0.31	18.05	42.62	128
21	107.44	118.28	98.52	109.92	119.73	99.47	108.68	109.00	2.65	20.87	42.62	128
22	109.92	119.73	99.47	112.39	121.18	100.68	111.15	110.26	2.75	26.03	42.62	128
23	112.39	121.18	100.68	114.43	123.36	101.90	113.42	111.78	2.37	30.93	42.62	128
24	114.43	123.36	101.90	116.46	125.54	103.35	115.45	113.54	2.50	35.59	42.62	128
25	116.46	125.54	103.35	116.99	126.10	103.78	116.73	114.69	0.68	38.62	42.62	128
26	116.99	126.10	103.78	119.01	127.87	105.59	118.00	115.83	2.71	41.86	42.62	128
27	119.01	127.87	105.59	119.49	128.29	106.07	119.25	116.95	0.68	45.10	42.62	128
28	119.49	128.29	106.07	122.34	130.86	109.46	120.91	118.66	4.43	49.99	42.62	128
29	122.34	130.86	109.46	125.77	130.95	115.65	123.96	121.64	7.07	61.00	42.62	128
30	125.77	130.95	115.65	127.73	131.01	122.99	126.65	124.96	7.60	75.05	42.62	128

Forze applicate sulle strisce [JANBU]

N°	W	Q	N	T	U	E_s	E_d	X_s	X_d
1	0.90	0.00	3.58	2.00	0.00	0.00	3.94	0.00	0.00
2	69.89	0.00	156.46	56.17	0.00	3.94	149.65	0.00	0.00
3	28.06	0.00	54.80	18.65	0.00	149.65	198.14	0.00	0.00
4	293.33	0.00	484.32	208.84	52.55	198.14	671.26	0.00	0.00
5	108.27	0.00	164.18	96.04	29.73	671.26	850.31	0.00	0.00
6	115.16	0.00	159.84	91.72	33.36	850.31	1021.47	0.00	0.00
7	221.94	0.00	279.42	157.09	67.35	1021.47	1312.77	0.00	0.00
8	123.74	0.00	144.21	79.41	38.32	1312.77	1458.38	0.00	0.00
9	697.60	0.00	726.41	385.11	216.53	1458.38	2139.14	0.00	0.00
10	596.66	0.00	546.90	281.19	187.91	2139.14	2595.25	0.00	0.00
11	154.80	0.00	133.94	68.45	49.56	2595.25	2699.87	0.00	0.00
12	350.61	0.00	274.90	144.00	130.63	2699.87	2913.31	0.00	0.00
13	457.81	0.00	346.82	180.99	168.03	2913.31	3161.13	0.00	0.00
14	886.26	0.00	644.35	333.34	315.34	3161.13	3555.06	0.00	0.00
15	25.06	0.00	18.15	9.15	8.42	3555.06	3564.69	0.00	0.00
16	1068.75	0.00	780.82	380.58	330.78	3564.69	3912.99	0.00	0.00
17	1196.34	0.00	874.80	411.58	333.47	3912.99	4176.58	0.00	0.00
18	1306.04	0.00	960.03	440.78	332.21	4176.58	4335.24	0.00	0.00
19	1567.47	0.00	1153.81	527.06	376.63	4335.24	4365.45	0.00	0.00
20	146.38	0.00	108.37	49.42	34.04	4365.45	4359.63	0.00	0.00
21	1287.59	0.00	968.00	438.02	283.88	4359.63	4246.53	0.00	0.00
22	1311.64	0.00	1010.59	456.80	269.33	4246.53	4017.44	0.00	0.00
23	1110.26	0.00	887.37	398.99	206.25	4017.44	3731.73	0.00	0.00
24	1154.82	0.00	966.65	430.90	187.15	3731.73	3342.23	0.00	0.00
25	306.69	0.00	265.16	117.83	44.90	3342.23	3222.55	0.00	0.00
26	1171.43	0.00	1049.18	467.53	151.47	3222.55	2700.00	0.00	0.00

27	277.73	0.00	258.31	115.67	30.74	2700.00	2560.40	0.00	0.00
28	1616.13	0.00	1602.20	727.22	119.72	2560.40	1613.21	0.00	0.00
29	1636.35	0.00	1818.30	918.47	0.00	1613.21	371.16	0.00	0.00
30	594.40	0.00	482.44	504.64	0.00	371.16	0.00	0.00	0.00

Dichiarazioni secondo N.T.C. 2008 (punto 10.2)

Analisi e verifiche svolte con l'ausilio di codici di calcolo
Il sottoscritto Iacopo Parenti, in qualità di calcolatore delle opere in progetto, dichiara quanto segue.

Tipo di analisi svolta
L'analisi e le verifiche di stabilità sono condotte con l'ausilio di un codice di calcolo automatico.
I metodi di calcolo implementati sono i classici metodi delle strisce, basati sul concetto dell'equilibrio limite globale. La superficie di rottura è suddivisa in un determinato numero di strisce che consentono di calcolare le grandezze che entrano in gioco nelle equazioni risolutive.
Nel modulo terreni si adotta il criterio di rottura di Mohr-Coulomb. Nel modulo rocce si può adottare il criterio di rottura di Hoek-Brown o di Barton.
Il programma consente di inserire degli interventi di stabilizzazione, che possono intervenire secondo sue modalità diverse: variazione delle forze di interstriscia o resistenza a taglio equivalente.
L'analisi sotto le azioni sismiche è condotta con il metodo dell'analisi statica equivalente secondo le disposizioni del capitolo 7 del DM 14/01/2008.

Origine e caratteristiche dei codici di calcolo

Titolo	STAP - Stabilità Pendii Terreni e Rocce
Versione	11.0
Produttore	Aztec Informatica srl, Casole Bruzio (CS)
Utente	ING. PARENTI IACOPO
Licenza	AIU22951S

Affidabilità dei codici di calcolo
Un attento esame preliminare della documentazione a corredo del software ha consentito di valutarne l'affidabilità. La documentazione fornita dal produttore del software contiene un'esauriente descrizione delle basi teoriche, degli algoritmi impiegati e l'individuazione dei campi d'impiego. La società produttrice Aztec Informatica srl ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

Modalità di presentazione dei risultati
La relazione di calcolo strutturale presenta i dati di calcolo tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità. La relazione di calcolo illustra in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare.

Informazioni generali sull'elaborazione
Il software prevede una serie di controlli automatici che consentono l'individuazione di errori di modellazione, di non rispetto di limitazioni geometriche e di armatura e di presenza di elementi non verificati. Il codice di calcolo consente di visualizzare e controllare, sia in forma grafica che tabellare, i dati del modello strutturale, in modo da avere una visione consapevole del comportamento corretto del modello strutturale.

Giudizio motivato di accettabilità dei risultati
I risultati delle elaborazioni sono stati sottoposti a controlli dal sottoscritto utente del software. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali. Inoltre sulla base di considerazioni riguardanti gli stati tensionali e deformativi

determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni.
In base a quanto sopra, io sottoscritto asserisco che l'elaborazione è corretta ed idonea al caso specifico, pertanto i risultati di calcolo sono da ritenersi validi ed accettabili.

Luogo e data

_____

Il progettista
(Iacopo Parenti)

_____

Progetto: Cava Sassicheto
Ditta: Sa.Des. Costruzioni
Comune: Firenzuola
Progettista: Iacopo Parenti
Direttore dei Lavori: Iacopo Parenti
Impresa: Sa.Des. Costruzioni

Normative di riferimento

- Legge nr. 64 del 02/02/1974.
Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- D.M. LL.PP. del 11/03/1988.
Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
- D.M. 16 Gennaio 1996
Norme Tecniche per le costruzioni in zone sismiche
- Circolare Ministero LL.PP. 15 Ottobre 1996 N. 252 AA.GG./S.T.C.
Istruzioni per l'applicazione delle Norme Tecniche di cui al D.M. 9 Gennaio 1996
- Circolare Ministero LL.PP. 10 Aprile 1997 N. 65/AA.GG.
Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche di cui al D.M. 16 Gennaio 1996

- Norme Tecniche per le Costruzioni 2008 (D.M. 14 Gennaio 2008)
- Circolare 617 del 02/02/2009
Istruzioni per l'applicazione delle Nuove Norme Tecniche per le Costruzioni di cui al D.M. 14 gennaio 2008.

Descrizione metodo di calcolo

La verifica alla stabilità del pendio deve fornire un coefficiente di sicurezza non inferiore a **1.10**.
Viene usata la tecnica della suddivisione a strisce della superficie di scorrimento da analizzare.
In particolare il programma esamina un numero di superfici che dipende dalle impostazioni fornite e che sono riportate nella corrispondente sezione. Il processo iterativo permette di determinare il coefficiente di sicurezza di tutte le superfici analizzate.
Nella descrizione dei metodi di calcolo si adotterà la seguente simbologia:

l lunghezza della base della striscia
α angolo della base della striscia rispetto all'orizzontale
b larghezza della striscia b=l x cos(α)
ϕ angolo di attrito lungo la base della striscia
c coesione lungo la base della striscia
γ peso di volume del terreno
u pressione neutra
W peso della striscia
N sforzo normale alla base della striscia
T sforzo di taglio alla base della striscia
$\mathbf{E_s}$, $\mathbf{E_d}$ forze normali di interstriscia a sinistra e a destra
$\mathbf{X_s}$, $\mathbf{X_d}$ forze tangenziali di interstriscia a sinistra e a destra
$\mathbf{E_a}$, $\mathbf{E_b}$ forze normali di interstriscia alla base ed alla sommità del pendio
ΔX variazione delle forze tangenziali sulla striscia $\mathbf{\Delta X = X_d - X_s}$
ΔE variazione delle forze normali sulla striscia $\mathbf{\Delta E = E_d - E_s}$

Metodo di Janbu (semplificato)

Il coefficiente di sicurezza nel metodo di **Janbu semplificato** si esprime secondo la seguente formula:

$$F = \frac{\Sigma[\, c_i\, b_i + (N_i / \cos(\alpha_i) - u_i\, b_i)\, tg\phi_i \,]}{\Sigma_i\, [\, W_i \tan\alpha_i \,]}$$

dove il termine $\mathbf{N_i}$ è espresso da

$$N_i = [\, W_i - c_i\, l_i \sin\alpha_t / \eta + u_i\, l_i \tan\phi \sin\alpha_t / F \,] / m$$

dove il termine **m** è espresso da

$$m = \cos\alpha + (\sin\alpha \tan\phi) / F$$

In questa espressione **n** è il numero delle strisce considerate, $\mathbf{b_i}$ e $\mathbf{\alpha_i}$ sono la larghezza e l'inclinazione della base della striscia $\mathbf{i_{esima}}$ rispetto all'orizzontale, $\mathbf{W_i}$ è il peso della striscia $\mathbf{i_{esima}}$, $\mathbf{c_i}$ e $\mathbf{\phi_i}$ sono le caratteristiche del terreno (coesione ed angolo di attrito) lungo la base della striscia ed $\mathbf{u_i}$ è la pressione neutra lungo la base della striscia.

L'espressione del coefficiente di sicurezza di **Janbu semplificato** contiene al secondo membro il termine **m** che è funzione di **F**. Quindi essa viene risolta per successive approssimazioni assumendo un valore iniziale per **F** da inserire nell'espressione di **m** ed iterare finquando il valore calcolato coincide con il valore assunto.
La semplificazione del metodo rispetto al procedimento completo consiste nel trascurare le forze tangenziali di interstriscia.

Descrizione terreno

Simbologia adottata

Nr. Indice del terreno
Descrizione Descrizione terreno
γ Peso di volume del terreno espresso in kN/mc
γ_w Peso di volume saturo del terreno espresso in kN/mc
ϕ Angolo d'attrito interno 'efficace' del terreno espresso in gradi
c Coesione 'efficace' del terreno espressa in kPa
ϕ_u Angolo d'attrito interno 'totale' del terreno espresso gradi
c_u Coesione 'totale' del terreno espressa in kPa

Nr.	Descrizione	γ	γ_w	ϕ'	c'	ϕ_u	c_u
1	Detrito	18.00	21.00	48.00	8.0	0.00	39.2
2	Substrato	26.00	26.00	49.00	160.0	0.00	39.2

Profilo del piano campagna

Simbologia e convenzioni di segno adottate

L'ascissa è intesa positiva da sinistra verso destra e l'ordinata positiva verso l'alto.
Nr. Identificativo del punto
X Ascissa del punto del profilo espressa in m
Y Ordinata del punto del profilo espressa in m

Nr.	X [m]	Y [m]
1	0.00	76.36
2	6.83	75.23
3	11.38	74.53
4	14.93	73.98
5	16.62	74.09
6	18.66	74.36
7	20.41	75.23
8	23.06	77.23
9	24.73	79.23
10	27.13	81.23
11	30.92	83.23
12	35.19	85.23
13	35.48	85.39
14	38.92	87.23
15	39.09	87.34
16	39.93	87.83
17	41.92	88.99
18	42.34	89.23
19	44.21	90.47
20	45.36	91.23
21	45.59	91.36
22	46.16	91.67
23	48.17	92.77
24	49.03	93.23
25	50.46	93.93
26	52.05	94.73

27	52.58	94.99
28	53.04	95.23
29	55.69	96.70
30	56.65	97.23
31	57.22	97.59
32	58.82	98.59
33	59.58	99.06
34	59.85	99.23
35	62.15	100.41
36	63.78	101.23
37	64.83	101.73
38	66.62	102.57
39	67.49	102.99
40	68.01	103.23
41	68.12	103.32
42	68.34	103.50
43	68.63	103.75
44	68.75	103.85
45	70.54	104.73
46	72.13	106.05
47	72.44	106.20
48	72.80	106.37
49	73.43	106.55
50	73.96	106.60
51	75.18	106.77
52	75.92	107.08
53	78.43	108.17
54	82.21	108.33
55	82.95	108.35
56	84.21	108.39
57	84.84	108.74
58	87.81	109.77
59	89.94	110.09
60	90.46	110.09
61	91.61	110.08
62	93.06	110.22
63	95.72	110.55
64	95.79	111.16
65	103.99	116.69
66	107.15	117.50
67	107.44	118.28
68	112.39	121.18
69	116.46	125.54
70	116.99	126.10
71	119.01	127.87
72	119.49	128.29
73	122.34	130.86
74	125.77	130.95
75	135.15	131.22
76	135.27	131.22
77	135.28	131.22

78	135.29	131.22
79	135.34	131.22
80	136.69	131.23
81	139.49	131.25
82	141.15	138.98
83	141.53	140.79
84	141.73	140.87
85	141.88	140.94
86	142.26	141.11
87	142.99	141.43
88	146.71	143.07
89	146.76	143.12
90	146.80	143.16
91	146.84	143.19
92	146.86	143.20
93	146.88	143.22
94	146.92	143.23
95	147.88	143.23
96	148.46	143.23
97	150.82	146.21
98	152.22	148.02

Descrizione stratigrafia

Simbologia e convenzioni di segno adottate
Gli strati sono descritti mediante i punti di contorno (in senso antiorario) e l'indice del terreno di cui è costituito

Strato N° **1** costituito da terreno n° 2 (Substrato)

Coordinate dei vertici dello strato n° 1

N°	**X[m]**	**Y[m]**
1	11.38	74.53
2	6.83	75.23
3	0.00	76.36
4	0.00	0.00
5	152.22	0.00
6	152.22	148.02
7	150.82	146.21
8	148.46	143.23
9	147.88	143.23
10	146.92	143.23
11	146.88	143.22
12	146.86	143.20
13	146.84	143.19
14	146.80	143.16
15	146.76	143.12
16	146.71	143.07
17	142.99	141.43
18	142.26	141.11
19	141.88	140.94

20	141.73	140.87
21	141.53	140.79
22	141.15	138.98
23	139.49	131.25
24	136.69	131.23
25	135.34	131.22
26	135.29	131.22
27	135.28	131.22
28	135.27	131.22
29	135.15	131.22
30	125.77	130.95
31	122.34	130.86
32	119.49	128.29
33	119.01	127.87
34	116.99	126.10
35	116.46	125.54
36	112.39	121.18
37	107.44	118.28
38	107.15	117.50
39	103.99	116.69
40	95.79	111.16
41	95.72	110.55
42	94.80	109.23
43	89.17	107.23
44	83.85	105.23
45	81.43	103.23
46	78.66	101.23
47	74.43	99.23
48	71.20	97.23
49	65.37	95.23
50	63.09	93.23
51	59.79	91.23
52	56.31	89.23
53	53.87	87.23
54	49.18	85.23
55	47.48	83.23
56	40.66	81.23
57	37.56	79.23
58	35.19	75.90
59	32.02	73.12
60	24.66	70.03
61	19.27	67.70
62	18.16	67.72
63	16.48	68.57

Strato N° **2** costituito da terreno n° 1 (Detrito)

Coordinate dei vertici dello strato n° 2

N°	**X[m]**	**Y[m]**
1	95.72	110.55

2	93.06	110.22
3	91.61	110.08
4	90.46	110.09
5	89.94	110.09
6	87.81	109.77
7	84.84	108.74
8	84.21	108.39
9	82.95	108.35
10	82.21	108.33
11	78.43	108.17
12	75.92	107.08
13	75.18	106.77
14	73.96	106.60
15	73.43	106.55
16	72.80	106.37
17	72.44	106.20
18	72.13	106.05
19	70.54	104.73
20	68.75	103.85
21	68.63	103.75
22	68.34	103.50
23	68.12	103.32
24	68.01	103.23
25	67.49	102.99
26	66.62	102.57
27	64.83	101.73
28	63.78	101.23
29	62.15	100.41
30	59.85	99.23
31	59.58	99.06
32	58.82	98.59
33	57.22	97.59
34	56.65	97.23
35	55.69	96.70
36	53.04	95.23
37	52.58	94.99
38	52.05	94.73
39	50.46	93.93
40	49.03	93.23
41	48.17	92.77
42	46.16	91.67
43	45.59	91.36
44	45.36	91.23
45	44.21	90.47
46	42.34	89.23
47	41.92	88.99
48	39.93	87.83
49	39.09	87.34
50	38.92	87.23
51	35.48	85.39
52	35.19	85.23

53	30.92	83.23
54	27.13	81.23
55	24.73	79.23
56	23.06	77.23
57	20.41	75.23
58	18.66	74.36
59	16.62	74.09
60	14.93	73.98
61	11.38	74.53
62	16.48	68.57
63	18.16	67.72
64	19.27	67.70
65	24.66	70.03
66	32.02	73.12
67	35.19	75.90
68	37.56	79.23
69	40.66	81.23
70	47.48	83.23
71	49.18	85.23
72	53.87	87.23
73	56.31	89.23
74	59.79	91.23
75	63.09	93.23
76	65.37	95.23
77	71.20	97.23
78	74.43	99.23
79	78.66	101.23
80	81.43	103.23
81	83.85	105.23
82	89.17	107.23
83	94.80	109.23

Descrizione falda

Livello di falda

Nr.	X[m]	Y[m]
1	0.00	76.00
2	16.00	74.00
3	18.66	74.36
4	22.00	76.00
5	32.00	82.00
6	46.00	90.00
7	62.00	100.00
8	78.43	108.17
9	90.46	109.09
10	152.22	112.00

Risultati analisi

Per l'analisi sono stati utilizzati i seguenti metodi di calcolo :
Metodo di JANBU (J)

Impostazioni analisi
Normativa :
Norme Tecniche sulle Costruzioni 14/01/2008

Coefficienti di partecipazione caso statico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.30	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.50	1.30

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Coefficienti di partecipazione caso sismico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.00	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.00	1.00

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Sisma

Accelerazione al suolo a_g =	1.943 [m/s^2]
Coefficiente di amplificazione per tipo di sottosuolo (Ss)	1.20
Coefficiente di amplificazione topografica (St)	1.04
Coefficiente riduzione (β_s)	0.24
Rapporto intensità sismica verticale/orizzontale	0.50
Coefficiente di intensità sismica orizzontale (percento)	$k_h=(a_g/g*\beta_s*St*S)$ = 5.93
Coefficiente di intensità sismica verticale (percento)	$k_v=0.50 * k_h$ = 2.97
Coefficiente di sicurezza richiesto	1.10

Le superfici sono state analizzate per i casi: [PC] [A2M2]
Sisma verticale: verso il basso - verso l'alto
Analisi condotta in termini di tensioni efficaci
Presenza di falda

Impostazioni delle superfici di rottura

Si considerano delle superfici di rottura circolari generate tramite la seguente maglia dei centri

Origine maglia [m]:	X_0 = 16.00	Y_0 = 88.00
Passo maglia [m]:	dX = 5.00	dY = 5.00
Numero passi :	Nx = 15	Ny = 12
Raggio [m]:	R = 3.00	

Si utilizza un raggio variabile con passo dR=3.00 [m] ed un numero di incrementi pari a 10

Sono state escluse dall'analisi le superfici aventi:
- lunghezza di corda inferiore a 1.00 m
- freccia inferiore a 0.50 m
- volume inferiore a 2.00 mc

Numero di superfici analizzate	1840
Coefficiente di sicurezza minimo	1.098
Superficie con coefficiente di sicurezza minimo	1

Quadro sintetico coefficienti di sicurezza

Metodo	Nr. superfici	FS_{min}	S_{min}	FS_{max}	S_{max}
JANBU	1840	1.098	1	13.023	1840

Caratteristiche delle superfici analizzate

Simbologia adottata

Le ascisse X sono considerate positive verso monte
Le ordinate Y sono considerate positive verso l'alto

N°	numero d'ordine della superficie cerchio
C_x	ascissa x del centro [m]
C_y	ordinata y del centro [m]
R	raggio del cerchio espresso in m
x_v, y_v	ascissa e ordinata del punto di intersezione con il profilo (valle) espresse in m
x_m, y_m	ascissa e ordinata del punto di intersezione con il profilo (monte) espresse in m
V	volume interessato dalla superficie espresso [cmq]
C_s	coefficiente di sicurezza
caso	caso di calcolo

N°	C_x	C_y	R	x_v	y_v	x_m	y_m	V	C_s	caso
1	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.098 (J)	[A2M2]
2	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	1.127 (J)	[A2M2]
3	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.127 (J)	[A2M2]
4	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.61	1.127 (J)	[A2M2]
5	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	1.133 (J)	[A2M2]
6	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	1.140 (J)	[A2M2]
7	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	1.144 (J)	[A2M2]
8	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.06	1.147 (J)	[A2M2]
9	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.61	1.160 (J)	[A2M2]
10	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	1.161 (J)	[A2M2]
11	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	1.165 (J)	[A2M2]
12	46.00	113.00	24.00	42.40	89.27	67.90	103.18	103.00	1.169 (J)	[A2M2]
13	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	1.172 (J)	[A2M2]
14	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	1.173 (J)	[A2M2]
15	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	1.173 (J)	[A2M2]
16	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	1.176 (J)	[A2M2]
17	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	1.177 (J)	[A2M2]
18	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.31	1.177 (J)	[A2M2]
19	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	1.179 (J)	[A2M2]
20	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.94	1.180 (J)	[A2M2]
21	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.06	1.182 (J)	[A2M2]
22	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.58	1.189 (J)	[A2M2]
23	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	1.194 (J)	[A2M2]
24	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	1.198 (J)	[A2M2]
25	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	1.201 (J)	[A2M2]
26	46.00	113.00	24.00	42.40	89.27	67.90	103.18	103.00	1.202 (J)	[A2M2]
27	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	1.208 (J)	[A2M2]
28	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.94	1.209 (J)	[A2M2]
29	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.43	1.209 (J)	[A2M2]
30	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.31	1.212 (J)	[A2M2]
31	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	1.212 (J)	[A2M2]
32	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.58	1.213 (J)	[A2M2]
33	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	1.215 (J)	[A2M2]

34	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	1.218 (J) [A2M2]
35	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	1.219 (J) [A2M2]
36	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.67	1.222 (J) [A2M2]
37	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	1.227 (J) [A2M2]
38	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.16	1.228 (J) [A2M2]
39	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.38	1.235 (J) [A2M2]
40	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.14	1.239 (J) [A2M2]
41	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	1.240 (J) [A2M2]
42	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.16	1.241 (J) [A2M2]
43	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.43	1.241 (J) [A2M2]
44	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	1.241 (J) [A2M2]
45	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	1.242 (J) [A2M2]
46	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	1.243 (J) [A2M2]
47	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	1.245 (J) [A2M2]
48	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	1.247 (J) [A2M2]
49	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	1.256 (J) [A2M2]
50	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	1.257 (J) [A2M2]
51	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.67	1.259 (J) [A2M2]
52	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.16	1.261 (J) [A2M2]
53	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	1.261 (J) [A2M2]
54	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.14	1.265 (J) [A2M2]
55	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.16	1.269 (J) [A2M2]
56	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	1.269 (J) [A2M2]
57	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	1.271 (J) [A2M2]
58	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	1.271 (J) [A2M2]
59	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	1.272 (J) [A2M2]
60	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	1.274 (J) [A2M2]
61	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	1.278 (J) [A2M2]
62	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.38	1.285 (J) [A2M2]
63	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	1.288 (J) [A2M2]
64	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	1.293 (J) [A2M2]
65	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.41	1.294 (J) [A2M2]
66	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	1.296 (J) [A2M2]
67	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	1.298 (J) [A2M2]
68	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	1.301 (J) [A2M2]
69	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	1.307 (J) [A2M2]
70	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.64	1.309 (J) [A2M2]
71	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	1.314 (J) [A2M2]
72	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.08	1.320 (J) [A2M2]
73	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	1.321 (J) [A2M2]
74	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	1.323 (J) [A2M2]
75	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	1.326 (J) [A2M2]
76	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.33	1.329 (J) [A2M2]
77	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.78	1.334 (J) [A2M2]
78	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	1.334 (J) [A2M2]
79	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.64	1.335 (J) [A2M2]
80	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.80	1.337 (J) [A2M2]
81	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.46	1.339 (J) [A2M2]
82	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.41	1.341 (J) [A2M2]
83	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.46	1.341 (J) [A2M2]
84	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	1.342 (J) [A2M2]

85	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.08	1.342 (J)	[A2M2]
86	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	1.344 (J)	[A2M2]
87	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	1.344 (J)	[A2M2]
88	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	1.345 (J)	[A2M2]
89	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.33	1.352 (J)	[A2M2]
90	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	1.352 (J)	[A2M2]
91	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	1.353 (J)	[A2M2]
92	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	1.359 (J)	[A2M2]
93	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	1.360 (J)	[A2M2]
94	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.09	1.364 (J)	[A2M2]
95	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	1.365 (J)	[A2M2]
96	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.08	1.365 (J)	[A2M2]
97	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.78	1.369 (J)	[A2M2]
98	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.42	1.370 (J)	[A2M2]
99	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	1.373 (J)	[A2M2]
100	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	1.373 (J)	[A2M2]
101	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.373 (J)	[PC]
102	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	1.380 (J)	[A2M2]
103	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.09	1.381 (J)	[A2M2]
104	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.80	1.384 (J)	[A2M2]
105	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	1.391 (J)	[A2M2]
106	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	1.392 (J)	[A2M2]
107	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.28	1.393 (J)	[A2M2]
108	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.08	1.395 (J)	[A2M2]
109	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.42	1.398 (J)	[A2M2]
110	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	1.398 (J)	[A2M2]
111	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	1.402 (J)	[A2M2]
112	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	1.403 (J)	[A2M2]
113	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	1.403 (J)	[A2M2]
114	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.76	1.407 (J)	[A2M2]
115	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	1.408 (J)	[PC]
116	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.409 (J)	[PC]
117	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.61	1.409 (J)	[PC]
118	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	1.415 (J)	[A2M2]
119	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	1.416 (J)	[PC]
120	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	1.416 (J)	[A2M2]
121	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.28	1.417 (J)	[A2M2]
122	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.10	1.417 (J)	[A2M2]
123	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	1.421 (J)	[A2M2]
124	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	1.422 (J)	[A2M2]
125	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	1.422 (J)	[A2M2]
126	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	1.423 (J)	[A2M2]
127	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	1.425 (J)	[PC]
128	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	1.430 (J)	[PC]
129	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	1.431 (J)	[A2M2]
130	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.06	1.434 (J)	[PC]
131	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	1.435 (J)	[A2M2]
132	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	1.435 (J)	[A2M2]
133	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	1.437 (J)	[A2M2]
134	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	1.437 (J)	[A2M2]
135	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	1.438 (J)	[A2M2]

136	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	1.438 (J)	[A2M2]
137	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.76	1.440 (J)	[A2M2]
138	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	1.442 (J)	[A2M2]
139	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.61	1.450 (J)	[PC]
140	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	1.452 (J)	[PC]
141	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	1.453 (J)	[A2M2]
142	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	1.456 (J)	[PC]
143	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	1.457 (J)	[A2M2]
144	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.84	1.458 (J)	[A2M2]
145	46.00	113.00	24.00	42.40	89.27	67.90	103.18	103.00	1.462 (J)	[PC]
146	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	1.463 (J)	[A2M2]
147	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	1.464 (J)	[A2M2]
148	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	1.465 (J)	[A2M2]
149	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	1.466 (J)	[PC]
150	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	1.466 (J)	[PC]
151	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	1.466 (J)	[PC]
152	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	1.471 (J)	[PC]
153	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	1.471 (J)	[PC]
154	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.31	1.471 (J)	[PC]
155	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.10	1.472 (J)	[A2M2]
156	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	1.473 (J)	[PC]
157	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	1.475 (J)	[A2M2]
158	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	1.475 (J)	[A2M2]
159	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.94	1.475 (J)	[PC]
160	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.06	1.478 (J)	[PC]
161	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.84	1.479 (J)	[A2M2]
162	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	1.483 (J)	[A2M2]
163	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	1.483 (J)	[A2M2]
164	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.58	1.486 (J)	[PC]
165	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.92	1.491 (J)	[A2M2]
166	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	1.493 (J)	[PC]
167	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.496 (J)	[A2M2]
168	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	1.497 (J)	[PC]
169	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	1.501 (J)	[PC]
170	46.00	113.00	24.00	42.40	89.27	67.90	103.18	103.00	1.502 (J)	[PC]
171	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.92	1.504 (J)	[A2M2]
172	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	1.505 (J)	[A2M2]
173	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	1.508 (J)	[A2M2]
174	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	1.510 (J)	[PC]
175	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.94	1.511 (J)	[PC]
176	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.43	1.512 (J)	[PC]
177	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.513 (J)	[A2M2]
178	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	1.514 (J)	[A2M2]
179	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	1.515 (J)	[A2M2]
180	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.31	1.515 (J)	[PC]
181	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	1.515 (J)	[PC]
182	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.58	1.516 (J)	[PC]
183	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	1.519 (J)	[PC]
184	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	1.522 (J)	[PC]
185	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	1.524 (J)	[PC]
186	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.67	1.528 (J)	[PC]

187	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	1.528 (J)	[A2M2]
188	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.55	1.531 (J)	[A2M2]
189	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	1.533 (J)	[PC]
190	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	1.535 (J)	[A2M2]
191	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.16	1.535 (J)	[PC]
192	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	1.539 (J)	[A2M2]
193	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	1.540 (J)	[A2M2]
194	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	1.544 (J)	[A2M2]
195	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.38	1.544 (J)	[PC]
196	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.47	1.544 (J)	[A2M2]
197	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.47	1.547 (J)	[A2M2]
198	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.14	1.549 (J)	[PC]
199	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	1.550 (J)	[PC]
200	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.16	1.551 (J)	[PC]
201	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.43	1.551 (J)	[PC]
202	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	1.551 (J)	[PC]
203	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	1.553 (J)	[PC]
204	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	1.554 (J)	[PC]
205	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	1.554 (J)	[A2M2]
206	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	1.556 (J)	[PC]
207	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	1.558 (J)	[PC]
208	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.38	1.566 (J)	[A2M2]
209	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	1.570 (J)	[PC]
210	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.84	1.571 (J)	[A2M2]
211	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	1.572 (J)	[PC]
212	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	1.573 (J)	[A2M2]
213	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.67	1.574 (J)	[PC]
214	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	1.576 (J)	[A2M2]
215	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.16	1.576 (J)	[PC]
216	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	1.576 (J)	[PC]
217	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.38	1.578 (J)	[A2M2]
218	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.84	1.578 (J)	[A2M2]
219	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.92	1.581 (J)	[A2M2]
220	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.55	1.581 (J)	[A2M2]
221	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.14	1.582 (J)	[PC]
222	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	1.582 (J)	[A2M2]
223	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	1.585 (J)	[A2M2]
224	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.16	1.586 (J)	[PC]
225	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	1.587 (J)	[PC]
226	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	1.589 (J)	[PC]
227	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	1.589 (J)	[PC]
228	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	1.590 (J)	[PC]
229	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	1.593 (J)	[PC]
230	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	1.594 (J)	[A2M2]
231	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.17	1.596 (J)	[A2M2]
232	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	1.597 (J)	[PC]
233	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.94	1.602 (J)	[A2M2]
234	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	1.602 (J)	[A2M2]
235	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.94	1.605 (J)	[A2M2]
236	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.38	1.606 (J)	[PC]
237	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	1.609 (J)	[A2M2]

238	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	1.610 (J)	[PC]
239	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	1.617 (J)	[PC]
240	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.41	1.617 (J)	[PC]
241	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.17	1.618 (J)	[A2M2]
242	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	1.620 (J)	[PC]
243	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	1.623 (J)	[A2M2]
244	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	1.623 (J)	[PC]
245	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	1.626 (J)	[PC]
246	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	1.628 (J)	[A2M2]
247	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	1.634 (J)	[PC]
248	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.92	1.634 (J)	[A2M2]
249	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	1.635 (J)	[A2M2]
250	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.64	1.636 (J)	[PC]
251	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	1.643 (J)	[PC]
252	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	1.648 (J)	[A2M2]
253	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.08	1.650 (J)	[PC]
254	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	1.652 (J)	[PC]
255	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	1.654 (J)	[PC]
256	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	1.658 (J)	[PC]
257	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	1.661 (J)	[A2M2]
258	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.33	1.661 (J)	[PC]
259	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	1.663 (J)	[A2M2]
260	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	1.666 (J)	[A2M2]
261	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.78	1.667 (J)	[PC]
262	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	1.667 (J)	[PC]
263	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.64	1.669 (J)	[PC]
264	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.80	1.671 (J)	[PC]
265	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	1.672 (J)	[A2M2]
266	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.46	1.673 (J)	[PC]
267	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	1.674 (J)	[A2M2]
268	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.41	1.676 (J)	[PC]
269	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.46	1.677 (J)	[PC]
270	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	1.677 (J)	[PC]
271	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.08	1.677 (J)	[PC]
272	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	1.680 (J)	[A2M2]
273	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	1.680 (J)	[PC]
274	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	1.680 (J)	[PC]
275	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	1.681 (J)	[PC]
276	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	1.686 (J)	[A2M2]
277	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	1.688 (J)	[A2M2]
278	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.33	1.690 (J)	[PC]
279	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	1.690 (J)	[PC]
280	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	1.691 (J)	[PC]
281	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.28	1.692 (J)	[A2M2]
282	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.17	1.696 (J)	[A2M2]
283	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	1.696 (J)	[A2M2]
284	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	1.699 (J)	[PC]
285	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	1.699 (J)	[A2M2]
286	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	1.700 (J)	[PC]
287	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.09	1.705 (J)	[PC]
288	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	1.706 (J)	[A2M2]

289	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	1.707 (J)	[PC]
290	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.08	1.707 (J)	[PC]
291	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.22	1.707 (J)	[A2M2]
292	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.17	1.710 (J)	[A2M2]
293	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.78	1.712 (J)	[PC]
294	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.42	1.713 (J)	[PC]
295	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.22	1.714 (J)	[A2M2]
296	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	1.716 (J)	[PC]
297	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	1.716 (J)	[PC]
298	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	1.725 (J)	[PC]
299	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.09	1.726 (J)	[PC]
300	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.80	1.730 (J)	[PC]
301	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	1.735 (J)	[A2M2]
302	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	1.738 (J)	[A2M2]
303	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	1.739 (J)	[PC]
304	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	1.740 (J)	[PC]
305	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.28	1.741 (J)	[PC]
306	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	1.742 (J)	[A2M2]
307	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	1.744 (J)	[A2M2]
308	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.08	1.744 (J)	[PC]
309	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	1.746 (J)	[A2M2]
310	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.42	1.747 (J)	[PC]
311	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	1.748 (J)	[PC]
312	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.28	1.752 (J)	[A2M2]
313	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	1.753 (J)	[PC]
314	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	1.754 (J)	[PC]
315	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.31	1.754 (J)	[A2M2]
316	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	1.754 (J)	[PC]
317	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.76	1.759 (J)	[PC]
318	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	1.765 (J)	[A2M2]
319	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	1.768 (J)	[A2M2]
320	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	1.768 (J)	[PC]
321	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	1.770 (J)	[PC]
322	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.28	1.771 (J)	[PC]
323	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.10	1.772 (J)	[PC]
324	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	1.776 (J)	[PC]
325	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	1.777 (J)	[PC]
326	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	1.778 (J)	[PC]
327	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	1.779 (J)	[PC]
328	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.63	1.784 (J)	[A2M2]
329	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	1.789 (J)	[PC]
330	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	1.790 (J)	[A2M2]
331	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	1.793 (J)	[PC]
332	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	1.794 (J)	[PC]
333	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	1.796 (J)	[PC]
334	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	1.797 (J)	[PC]
335	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	1.797 (J)	[PC]
336	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	1.798 (J)	[PC]
337	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	1.798 (J)	[A2M2]
338	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.76	1.800 (J)	[PC]
339	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	1.803 (J)	[PC]

340	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.63	1.812 (J)	[A2M2]
341	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.31	1.815 (J)	[A2M2]
342	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	1.817 (J)	[PC]
343	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.31	1.817 (J)	[A2M2]
344	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	1.819 (J)	[A2M2]
345	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.49	1.820 (J)	[A2M2]
346	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	1.822 (J)	[PC]
347	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.84	1.823 (J)	[PC]
348	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	1.829 (J)	[PC]
349	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	1.830 (J)	[PC]
350	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	1.831 (J)	[PC]
351	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.49	1.832 (J)	[A2M2]
352	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	1.837 (J)	[A2M2]
353	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.10	1.840 (J)	[PC]
354	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	1.843 (J)	[PC]
355	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	1.844 (J)	[PC]
356	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.84	1.849 (J)	[PC]
357	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	1.854 (J)	[PC]
358	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	1.854 (J)	[PC]
359	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	1.859 (J)	[A2M2]
360	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	1.862 (J)	[A2M2]
361	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.92	1.864 (J)	[PC]
362	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	1.864 (J)	[A2M2]
363	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	1.866 (J)	[A2M2]
364	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	1.868 (J)	[A2M2]
365	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.871 (J)	[PC]
366	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.31	1.872 (J)	[A2M2]
367	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.11	1.874 (J)	[A2M2]
368	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.11	1.875 (J)	[A2M2]
369	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.92	1.880 (J)	[PC]
370	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	1.880 (J)	[A2M2]
371	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	1.881 (J)	[PC]
372	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	1.882 (J)	[A2M2]
373	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	1.885 (J)	[PC]
374	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.87	1.885 (J)	[A2M2]
375	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	1.888 (J)	[A2M2]
376	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.87	1.890 (J)	[A2M2]
377	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.891 (J)	[PC]
378	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	1.891 (J)	[A2M2]
379	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	1.892 (J)	[PC]
380	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	1.892 (J)	[A2M2]
381	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.64	1.893 (J)	[A2M2]
382	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	1.894 (J)	[PC]
383	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	1.896 (J)	[A2M2]
384	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.57	1.896 (J)	[A2M2]
385	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.64	1.900 (J)	[A2M2]
386	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.57	1.905 (J)	[A2M2]
387	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	1.910 (J)	[PC]
388	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	1.911 (J)	[A2M2]
389	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	1.912 (J)	[A2M2]
390	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.55	1.913 (J)	[PC]

391	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	1.915 (J)	[A2M2]
392	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	1.918 (J)	[PC]
393	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	1.923 (J)	[PC]
394	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	1.925 (J)	[PC]
395	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	1.927 (J)	[A2M2]
396	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	1.929 (J)	[A2M2]
397	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	1.930 (J)	[PC]
398	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.47	1.930 (J)	[PC]
399	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.47	1.934 (J)	[PC]
400	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	1.943 (J)	[PC]
401	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	1.949 (J)	[A2M2]
402	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	1.955 (J)	[A2M2]
403	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.38	1.958 (J)	[PC]
404	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.80	1.959 (J)	[A2M2]
405	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	1.962 (J)	[A2M2]
406	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.27	1.962 (J)	[A2M2]
407	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.27	1.963 (J)	[A2M2]
408	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.80	1.964 (J)	[A2M2]
409	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	1.964 (J)	[A2M2]
410	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.84	1.964 (J)	[PC]
411	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	1.966 (J)	[PC]
412	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	1.969 (J)	[A2M2]
413	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	1.969 (J)	[PC]
414	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	1.971 (J)	[A2M2]
415	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.38	1.972 (J)	[PC]
416	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.84	1.972 (J)	[PC]
417	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	1.974 (J)	[A2M2]
418	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.92	1.976 (J)	[PC]
419	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.55	1.976 (J)	[PC]
420	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	1.978 (J)	[PC]
421	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	1.981 (J)	[PC]
422	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	1.983 (J)	[A2M2]
423	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	1.984 (J)	[A2M2]
424	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	1.986 (J)	[A2M2]
425	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	1.988 (J)	[A2M2]
426	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	1.993 (J)	[PC]
427	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.17	1.995 (J)	[PC]
428	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	2.000 (J)	[A2M2]
429	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	2.001 (J)	[A2M2]
430	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.21	2.002 (J)	[A2M2]
431	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.94	2.003 (J)	[PC]
432	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	2.003 (J)	[PC]
433	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.21	2.005 (J)	[A2M2]
434	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.94	2.006 (J)	[PC]
435	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.009 (J)	[A2M2]
436	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.18	2.010 (J)	[A2M2]
437	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	2.011 (J)	[PC]
438	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.18	2.012 (J)	[A2M2]
439	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	2.013 (J)	[A2M2]
440	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	2.020 (J)	[A2M2]
441	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.17	2.023 (J)	[PC]

442	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.025 (J)	[A2M2]
443	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	2.025 (J)	[A2M2]
444	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	2.026 (J)	[A2M2]
445	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	2.028 (J)	[PC]
446	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	2.030 (J)	[A2M2]
447	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	2.034 (J)	[PC]
448	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.92	2.043 (J)	[PC]
449	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	2.043 (J)	[PC]
450	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.14	2.048 (J)	[A2M2]
451	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.14	2.053 (J)	[A2M2]
452	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	2.059 (J)	[A2M2]
453	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	2.059 (J)	[A2M2]
454	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	2.060 (J)	[PC]
455	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	2.063 (J)	[A2M2]
456	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	2.074 (J)	[A2M2]
457	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	2.075 (J)	[A2M2]
458	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	2.076 (J)	[A2M2]
459	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.30	2.076 (J)	[A2M2]
460	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	2.076 (J)	[PC]
461	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	2.078 (J)	[A2M2]
462	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.30	2.079 (J)	[A2M2]
463	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	2.079 (J)	[PC]
464	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.06	2.082 (J)	[A2M2]
465	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	2.083 (J)	[PC]
466	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	2.083 (J)	[A2M2]
467	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.06	2.083 (J)	[A2M2]
468	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.63	2.083 (J)	[A2M2]
469	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	2.084 (J)	[A2M2]
470	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	2.090 (J)	[PC]
471	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	2.092 (J)	[PC]
472	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	2.094 (J)	[A2M2]
473	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	2.100 (J)	[PC]
474	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.36	2.101 (J)	[A2M2]
475	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.68	2.102 (J)	[A2M2]
476	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	2.104 (J)	[A2M2]
477	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.68	2.105 (J)	[A2M2]
478	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	2.107 (J)	[PC]
479	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.50	2.108 (J)	[A2M2]
480	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.63	2.108 (J)	[A2M2]
481	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	2.110 (J)	[PC]
482	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.28	2.115 (J)	[PC]
483	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.01	2.118 (J)	[A2M2]
484	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.74	2.119 (J)	[A2M2]
485	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.17	2.120 (J)	[PC]
486	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	2.120 (J)	[PC]
487	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.50	2.121 (J)	[A2M2]
488	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.67	2.122 (J)	[A2M2]
489	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.01	2.123 (J)	[A2M2]
490	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.67	2.123 (J)	[A2M2]
491	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.74	2.124 (J)	[A2M2]
492	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	2.124 (J)	[PC]

493	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.04	2.125 (J) [A2M2]
494	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.24	2.125 (J) [A2M2]
495	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.36	2.128 (J) [A2M2]
496	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	2.130 (J) [A2M2]
497	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.04	2.130 (J) [A2M2]
498	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	2.132 (J) [PC]
499	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	2.133 (J) [A2M2]
500	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.22	2.134 (J) [PC]
501	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.54	2.138 (J) [A2M2]
502	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.17	2.138 (J) [PC]
503	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.17	2.139 (J) [A2M2]
504	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.40	2.142 (J) [A2M2]
505	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.22	2.142 (J) [PC]
506	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.143 (J) [A2M2]
507	36.00	108.00	30.00	25.52	79.89	65.39	101.99	338.04	2.146 (J) [A2M2]
508	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.54	2.147 (J) [A2M2]
509	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	2.148 (J) [A2M2]
510	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.09	2.154 (J) [A2M2]
511	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	2.154 (J) [A2M2]
512	36.00	108.00	30.00	25.52	79.89	65.39	101.99	338.04	2.154 (J) [A2M2]
513	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.38	2.157 (J) [A2M2]
514	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.24	2.161 (J) [A2M2]
515	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	2.161 (J) [A2M2]
516	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.74	2.162 (J) [A2M2]
517	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.38	2.165 (J) [A2M2]
518	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.74	2.165 (J) [A2M2]
519	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.17	2.167 (J) [A2M2]
520	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	2.169 (J) [PC]
521	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.64	2.173 (J) [A2M2]
522	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	2.173 (J) [PC]
523	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.174 (J) [A2M2]
524	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.27	2.174 (J) [A2M2]
525	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.40	2.174 (J) [A2M2]
526	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.09	2.175 (J) [A2M2]
527	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	2.175 (J) [A2M2]
528	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.72	2.175 (J) [A2M2]
529	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.27	2.176 (J) [A2M2]
530	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	2.177 (J) [PC]
531	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.87	2.178 (J) [A2M2]
532	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	2.179 (J) [A2M2]
533	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	2.180 (J) [PC]
534	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.64	2.181 (J) [A2M2]
535	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.67	2.181 (J) [A2M2]
536	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.72	2.182 (J) [A2M2]
537	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	2.182 (J) [A2M2]
538	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	2.183 (J) [PC]
539	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	2.183 (J) [A2M2]
540	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.67	2.185 (J) [A2M2]
541	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.95	2.186 (J) [A2M2]
542	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	2.187 (J) [A2M2]
543	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.14	2.188 (J) [A2M2]

544	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.10	2.189 (J)	[A2M2]
545	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.28	2.190 (J)	[PC]
546	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	2.191 (J)	[A2M2]
547	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.04	2.192 (J)	[A2M2]
548	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.31	2.192 (J)	[PC]
549	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.95	2.195 (J)	[A2M2]
550	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.04	2.195 (J)	[A2M2]
551	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	2.197 (J)	[A2M2]
552	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.38	2.200 (J)	[A2M2]
553	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.26	2.201 (J)	[A2M2]
554	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.82	2.205 (J)	[A2M2]
555	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	2.206 (J)	[PC]
556	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.82	2.207 (J)	[A2M2]
557	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.14	2.208 (J)	[A2M2]
558	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	2.210 (J)	[PC]
559	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	2.213 (J)	[A2M2]
560	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.26	2.213 (J)	[A2M2]
561	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.38	2.217 (J)	[A2M2]
562	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.87	2.217 (J)	[A2M2]
563	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	2.223 (J)	[A2M2]
564	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.30	2.223 (J)	[A2M2]
565	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.62	2.223 (J)	[A2M2]
566	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.30	2.224 (J)	[A2M2]
567	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.16	2.225 (J)	[A2M2]
568	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.36	2.226 (J)	[A2M2]
569	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	2.228 (J)	[A2M2]
570	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.63	2.230 (J)	[PC]
571	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.36	2.230 (J)	[A2M2]
572	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.70	2.235 (J)	[A2M2]
573	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.10	2.236 (J)	[A2M2]
574	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.59	2.237 (J)	[A2M2]
575	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	2.237 (J)	[PC]
576	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.44	2.239 (J)	[A2M2]
577	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.44	2.240 (J)	[A2M2]
578	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	2.241 (J)	[A2M2]
579	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.46	2.241 (J)	[A2M2]
580	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.62	2.243 (J)	[A2M2]
581	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	2.246 (J)	[A2M2]
582	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	2.248 (J)	[PC]
583	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.18	2.248 (J)	[A2M2]
584	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.18	2.249 (J)	[A2M2]
585	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.59	2.250 (J)	[A2M2]
586	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.92	2.251 (J)	[A2M2]
587	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.92	2.253 (J)	[A2M2]
588	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	2.255 (J)	[A2M2]
589	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.51	2.260 (J)	[A2M2]
590	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.63	2.265 (J)	[PC]
591	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.46	2.268 (J)	[A2M2]
592	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.16	2.268 (J)	[A2M2]
593	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.70	2.269 (J)	[A2M2]
594	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.31	2.269 (J)	[PC]

595	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.31	2.272 (J)	[PC]
596	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.51	2.273 (J)	[A2M2]
597	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.61	2.273 (J)	[A2M2]
598	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	2.274 (J)	[PC]
599	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.49	2.275 (J)	[PC]
600	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	2.276 (J)	[A2M2]
601	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.61	2.278 (J)	[A2M2]
602	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	2.285 (J)	[A2M2]
603	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.49	2.290 (J)	[PC]
604	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.47	2.291 (J)	[A2M2]
605	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	2.292 (J)	[A2M2]
606	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.70	2.292 (J)	[A2M2]
607	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.28	2.292 (J)	[A2M2]
608	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.28	2.295 (J)	[A2M2]
609	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	2.296 (J)	[A2M2]
610	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	2.296 (J)	[PC]
611	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	2.297 (J)	[A2M2]
612	56.00	113.00	24.00	45.60	91.37	79.52	108.22	263.84	2.299 (J)	[A2M2]
613	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.47	2.300 (J)	[A2M2]
614	56.00	113.00	24.00	45.60	91.37	79.52	108.22	263.84	2.305 (J)	[A2M2]
615	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.68	2.308 (J)	[A2M2]
616	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.89	2.314 (J)	[A2M2]
617	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.64	2.318 (J)	[A2M2]
618	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.08	2.321 (J)	[A2M2]
619	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.14	2.321 (J)	[A2M2]
620	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.29	2.322 (J)	[A2M2]
621	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	2.322 (J)	[A2M2]
622	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.71	2.323 (J)	[A2M2]
623	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.14	2.323 (J)	[A2M2]
624	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	2.324 (J)	[PC]
625	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.326 (J)	[A2M2]
626	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	2.328 (J)	[PC]
627	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.71	2.328 (J)	[A2M2]
628	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.08	2.330 (J)	[A2M2]
629	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	2.330 (J)	[PC]
630	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.70	2.331 (J)	[A2M2]
631	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.68	2.331 (J)	[A2M2]
632	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	2.332 (J)	[PC]
633	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.89	2.332 (J)	[A2M2]
634	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	2.334 (J)	[A2M2]
635	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	2.335 (J)	[PC]
636	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.31	2.340 (J)	[PC]
637	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.11	2.342 (J)	[PC]
638	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.11	2.344 (J)	[PC]
639	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.21	2.347 (J)	[A2M2]
640	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.29	2.347 (J)	[A2M2]
641	36.00	88.00	24.00	16.45	74.08	57.83	97.97	772.04	2.348 (J)	[A2M2]
642	41.00	98.00	24.00	25.38	79.78	64.72	101.68	517.09	2.349 (J)	[A2M2]
643	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	2.350 (J)	[PC]
644	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.27	2.350 (J)	[A2M2]
645	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.85	2.351 (J)	[A2M2]

646	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	2.353 (J)	[PC]
647	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.87	2.356 (J)	[PC]
648	41.00	98.00	24.00	25.38	79.78	64.72	101.68	517.09	2.356 (J)	[A2M2]
649	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.85	2.360 (J)	[A2M2]
650	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	2.360 (J)	[PC]
651	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.39	2.360 (J)	[A2M2]
652	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.39	2.360 (J)	[A2M2]
653	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	2.362 (J)	[A2M2]
654	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	2.362 (J)	[A2M2]
655	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.21	2.362 (J)	[A2M2]
656	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.87	2.363 (J)	[PC]
657	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.363 (J)	[A2M2]
658	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	2.363 (J)	[PC]
659	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	2.364 (J)	[A2M2]
660	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	2.364 (J)	[A2M2]
661	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	2.365 (J)	[PC]
662	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.51	2.366 (J)	[A2M2]
663	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.64	2.367 (J)	[PC]
664	56.00	113.00	27.00	42.73	89.49	82.59	108.34	406.99	2.368 (J)	[A2M2]
665	56.00	113.00	27.00	42.73	89.49	82.59	108.34	406.99	2.369 (J)	[A2M2]
666	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.64	2.369 (J)	[A2M2]
667	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	2.370 (J)	[PC]
668	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.57	2.370 (J)	[PC]
669	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.67	2.373 (J)	[A2M2]
670	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.64	2.374 (J)	[PC]
671	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	2.375 (J)	[A2M2]
672	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	2.379 (J)	[A2M2]
673	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.95	2.380 (J)	[A2M2]
674	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	2.380 (J)	[A2M2]
675	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	2.381 (J)	[A2M2]
676	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	2.382 (J)	[A2M2]
677	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.57	2.382 (J)	[PC]
678	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	2.384 (J)	[A2M2]
679	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	2.387 (J)	[A2M2]
680	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	2.388 (J)	[PC]
681	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.95	2.389 (J)	[A2M2]
682	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	2.390 (J)	[PC]
683	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.79	2.393 (J)	[A2M2]
684	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	2.393 (J)	[PC]
685	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.21	2.395 (J)	[A2M2]
686	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.27	2.397 (J)	[A2M2]
687	36.00	88.00	24.00	16.45	74.08	57.83	97.97	772.04	2.398 (J)	[A2M2]
688	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.40	2.399 (J)	[A2M2]
689	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.60	2.399 (J)	[A2M2]
690	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.21	2.399 (J)	[A2M2]
691	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.55	2.403 (J)	[A2M2]
692	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.79	2.403 (J)	[A2M2]
693	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.46	2.404 (J)	[A2M2]
694	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	2.407 (J)	[A2M2]
695	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.00	2.409 (J)	[A2M2]
696	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.77	2.409 (J)	[A2M2]

697	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	2.409 (J)	[PC]
698	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	2.409 (J)	[A2M2]
699	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	2.411 (J)	[PC]
700	61.00	113.00	21.00	51.32	94.36	81.47	108.30	218.06	2.412 (J)	[A2M2]
701	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.23	2.415 (J)	[A2M2]
702	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.46	2.415 (J)	[A2M2]
703	61.00	113.00	21.00	51.32	94.36	81.47	108.30	218.06	2.415 (J)	[A2M2]
704	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	2.416 (J)	[A2M2]
705	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	2.417 (J)	[A2M2]
706	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.37	2.417 (J)	[A2M2]
707	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	2.417 (J)	[A2M2]
708	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.37	2.420 (J)	[A2M2]
709	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.09	2.421 (J)	[A2M2]
710	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.88	2.421 (J)	[A2M2]
711	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.23	2.421 (J)	[A2M2]
712	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.51	2.422 (J)	[A2M2]
713	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	2.424 (J)	[A2M2]
714	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.00	2.424 (J)	[A2M2]
715	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	2.424 (J)	[A2M2]
716	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.40	2.431 (J)	[A2M2]
717	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.00	2.432 (J)	[A2M2]
718	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.00	2.433 (J)	[A2M2]
719	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.60	2.433 (J)	[A2M2]
720	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	2.434 (J)	[A2M2]
721	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.28	2.435 (J)	[A2M2]
722	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	2.436 (J)	[PC]
723	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.28	2.437 (J)	[A2M2]
724	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.28	2.437 (J)	[A2M2]
725	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	2.437 (J)	[A2M2]
726	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.67	2.437 (J)	[A2M2]
727	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.77	2.438 (J)	[A2M2]
728	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.28	2.439 (J)	[A2M2]
729	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	2.444 (J)	[PC]
730	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	2.444 (J)	[A2M2]
731	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.55	2.447 (J)	[A2M2]
732	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.80	2.449 (J)	[PC]
733	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	2.452 (J)	[PC]
734	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.27	2.453 (J)	[PC]
735	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.27	2.454 (J)	[PC]
736	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	2.454 (J)	[A2M2]
737	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.80	2.454 (J)	[PC]
738	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	2.455 (J)	[PC]
739	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	2.457 (J)	[A2M2]
740	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.68	2.461 (J)	[A2M2]
741	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	2.461 (J)	[PC]
742	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	2.462 (J)	[A2M2]
743	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.88	2.462 (J)	[A2M2]
744	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	2.464 (J)	[PC]
745	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	2.467 (J)	[PC]
746	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.42	2.468 (J)	[A2M2]
747	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.32	2.472 (J)	[A2M2]

748	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	2.473 (J)	[A2M2]
749	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	2.473 (J)	[A2M2]
750	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.68	2.474 (J)	[A2M2]
751	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	2.479 (J)	[PC]
752	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.42	2.480 (J)	[A2M2]
753	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	2.480 (J)	[PC]
754	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.41	2.481 (J)	[A2M2]
755	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.09	2.482 (J)	[A2M2]
756	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	2.483 (J)	[PC]
757	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	2.485 (J)	[PC]
758	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	2.487 (J)	[A2M2]
759	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	2.488 (J)	[A2M2]
760	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	2.489 (J)	[A2M2]
761	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	2.491 (J)	[A2M2]
762	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.41	2.493 (J)	[A2M2]
763	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	2.500 (J)	[PC]
764	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	2.501 (J)	[PC]
765	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	2.501 (J)	[A2M2]
766	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.21	2.502 (J)	[PC]
767	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.21	2.506 (J)	[PC]
768	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.511 (J)	[PC]
769	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.21	2.513 (J)	[A2M2]
770	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.18	2.513 (J)	[PC]
771	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.18	2.515 (J)	[PC]
772	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	2.517 (J)	[PC]
773	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.92	2.521 (J)	[A2M2]
774	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.92	2.521 (J)	[A2M2]
775	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	2.523 (J)	[A2M2]
776	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	2.524 (J)	[A2M2]
777	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	2.524 (J)	[PC]
778	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.32	2.530 (J)	[A2M2]
779	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.531 (J)	[PC]
780	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	2.532 (J)	[PC]
781	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.45	2.532 (J)	[A2M2]
782	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	2.533 (J)	[PC]
783	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	2.537 (J)	[PC]
784	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.21	2.537 (J)	[A2M2]
785	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	2.538 (J)	[A2M2]
786	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	2.539 (J)	[A2M2]
787	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.29	2.549 (J)	[A2M2]
788	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.37	2.549 (J)	[A2M2]
789	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.21	2.551 (J)	[A2M2]
790	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.29	2.551 (J)	[A2M2]
791	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.21	2.551 (J)	[A2M2]
792	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.92	2.554 (J)	[A2M2]
793	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.14	2.560 (J)	[PC]
794	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	2.561 (J)	[A2M2]
795	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.28	2.561 (J)	[A2M2]
796	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.14	2.567 (J)	[PC]
797	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.62	2.568 (J)	[A2M2]
798	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.11	2.570 (J)	[A2M2]

799	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	2.572 (J)	[A2M2]
800	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	2.574 (J)	[PC]
801	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	2.574 (J)	[PC]
802	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.37	2.577 (J)	[A2M2]
803	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	2.579 (J)	[PC]
804	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.28	2.582 (J)	[A2M2]
805	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.51	2.582 (J)	[A2M2]
806	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	2.583 (J)	[A2M2]
807	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.41	2.585 (J)	[A2M2]
808	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.78	2.586 (J)	[A2M2]
809	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.41	2.588 (J)	[A2M2]
810	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.51	2.589 (J)	[A2M2]
811	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.62	2.590 (J)	[A2M2]
812	61.00	103.00	24.00	41.63	88.82	84.37	108.48	742.99	2.590 (J)	[A2M2]
813	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.64	2.592 (J)	[A2M2]
814	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.45	2.593 (J)	[A2M2]
815	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	2.593 (J)	[PC]
816	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	2.594 (J)	[PC]
817	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	2.595 (J)	[PC]
818	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.74	2.595 (J)	[A2M2]
819	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.30	2.595 (J)	[PC]
820	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	2.595 (J)	[A2M2]
821	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	2.597 (J)	[PC]
822	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.30	2.599 (J)	[PC]
823	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.75	2.599 (J)	[A2M2]
824	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	2.600 (J)	[A2M2]
825	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.64	2.601 (J)	[A2M2]
826	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.06	2.602 (J)	[PC]
827	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.75	2.602 (J)	[A2M2]
828	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	2.602 (J)	[A2M2]
829	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	2.604 (J)	[PC]
830	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.06	2.604 (J)	[PC]
831	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.63	2.604 (J)	[PC]
832	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	2.605 (J)	[PC]
833	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.30	2.606 (J)	[A2M2]
834	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.92	2.607 (J)	[A2M2]
835	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.85	2.609 (J)	[A2M2]
836	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.78	2.609 (J)	[A2M2]
837	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	2.615 (J)	[A2M2]
838	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	2.618 (J)	[PC]
839	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.85	2.620 (J)	[A2M2]
840	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.71	2.621 (J)	[A2M2]
841	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.32	2.623 (J)	[A2M2]
842	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.71	2.623 (J)	[A2M2]
843	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.49	2.625 (J)	[A2M2]
844	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.32	2.626 (J)	[A2M2]
845	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.36	2.627 (J)	[PC]
846	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.68	2.628 (J)	[PC]
847	61.00	103.00	24.00	41.63	88.82	84.37	108.48	742.99	2.628 (J)	[A2M2]
848	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.11	2.629 (J)	[A2M2]
849	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	2.630 (J)	[PC]

850	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.68	2.631 (J)	[PC]
851	61.00	108.00	21.00	47.15	92.21	82.00	108.32	380.99	2.634 (J)	[A2M2]
852	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.50	2.635 (J)	[PC]
853	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.63	2.635 (J)	[PC]
854	61.00	108.00	21.00	47.15	92.21	82.00	108.32	380.99	2.636 (J)	[A2M2]
855	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.74	2.637 (J)	[A2M2]
856	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.47	2.639 (J)	[A2M2]
857	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	2.641 (J)	[A2M2]
858	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.38	2.641 (J)	[A2M2]
859	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.49	2.645 (J)	[A2M2]
860	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.01	2.648 (J)	[PC]
861	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.74	2.648 (J)	[PC]
862	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.30	2.651 (J)	[A2M2]
863	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.50	2.652 (J)	[PC]
864	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.56	2.652 (J)	[A2M2]
865	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.32	2.653 (J)	[A2M2]
866	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.67	2.653 (J)	[PC]
867	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.01	2.654 (J)	[PC]
868	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.67	2.654 (J)	[PC]
869	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.74	2.655 (J)	[PC]
870	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.04	2.656 (J)	[PC]
871	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.38	2.657 (J)	[A2M2]
872	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.24	2.657 (J)	[PC]
873	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.56	2.659 (J)	[A2M2]
874	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	2.660 (J)	[A2M2]
875	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.36	2.660 (J)	[PC]
876	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	2.660 (J)	[A2M2]
877	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	2.660 (J)	[A2M2]
878	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	2.661 (J)	[A2M2]
879	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	2.662 (J)	[PC]
880	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.04	2.663 (J)	[PC]
881	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	2.666 (J)	[PC]
882	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	2.667 (J)	[A2M2]
883	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	2.669 (J)	[A2M2]
884	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	2.671 (J)	[A2M2]
885	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.47	2.671 (J)	[A2M2]
886	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.54	2.672 (J)	[PC]
887	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.17	2.674 (J)	[PC]
888	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.40	2.677 (J)	[PC]
889	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.679 (J)	[PC]
890	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.32	2.680 (J)	[A2M2]
891	36.00	108.00	30.00	25.52	79.89	65.39	101.99	338.04	2.682 (J)	[PC]
892	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.95	2.683 (J)	[A2M2]
893	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.54	2.684 (J)	[PC]
894	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.08	2.684 (J)	[A2M2]
895	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	2.685 (J)	[PC]
896	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.41	2.687 (J)	[A2M2]
897	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	2.688 (J)	[A2M2]
898	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.09	2.692 (J)	[PC]
899	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	2.692 (J)	[PC]
900	36.00	108.00	30.00	25.52	79.89	65.39	101.99	338.04	2.693 (J)	[PC]

901	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	2.695 (J)	[A2M2]
902	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.08	2.696 (J)	[A2M2]
903	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.38	2.696 (J)	[PC]
904	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.74	2.700 (J)	[A2M2]
905	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.24	2.701 (J)	[PC]
906	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	2.702 (J)	[PC]
907	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.74	2.702 (J)	[PC]
908	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.95	2.703 (J)	[A2M2]
909	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.38	2.706 (J)	[PC]
910	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	2.706 (J)	[A2M2]
911	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.74	2.707 (J)	[PC]
912	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.74	2.707 (J)	[A2M2]
913	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.17	2.709 (J)	[PC]
914	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	2.710 (J)	[A2M2]
915	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	2.711 (J)	[A2M2]
916	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	2.713 (J)	[A2M2]
917	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.64	2.716 (J)	[PC]
918	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.717 (J)	[PC]
919	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.27	2.718 (J)	[PC]
920	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.40	2.718 (J)	[PC]
921	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.09	2.719 (J)	[PC]
922	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	2.719 (J)	[PC]
923	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.72	2.719 (J)	[PC]
924	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.41	2.719 (J)	[A2M2]
925	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.27	2.720 (J)	[PC]
926	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	2.721 (J)	[A2M2]
927	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.87	2.722 (J)	[PC]
928	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	2.724 (J)	[PC]
929	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.64	2.726 (J)	[PC]
930	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.67	2.726 (J)	[PC]
931	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.72	2.727 (J)	[PC]
932	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	2.727 (J)	[PC]
933	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	2.729 (J)	[PC]
934	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.67	2.731 (J)	[PC]
935	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.95	2.733 (J)	[PC]
936	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	2.734 (J)	[PC]
937	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	2.734 (J)	[A2M2]
938	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.14	2.735 (J)	[PC]
939	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.10	2.736 (J)	[PC]
940	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	2.739 (J)	[PC]
941	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.04	2.740 (J)	[PC]
942	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.95	2.744 (J)	[PC]
943	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.04	2.744 (J)	[PC]
944	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	2.746 (J)	[PC]
945	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.38	2.750 (J)	[PC]
946	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.26	2.751 (J)	[PC]
947	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.82	2.756 (J)	[PC]
948	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.82	2.759 (J)	[PC]
949	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.14	2.759 (J)	[PC]
950	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.42	2.760 (J)	[A2M2]
951	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	2.765 (J)	[A2M2]

952	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	2.766 (J)	[PC]
953	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.26	2.766 (J)	[PC]
954	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.38	2.771 (J)	[PC]
955	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.87	2.771 (J)	[PC]
956	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.42	2.778 (J)	[A2M2]
957	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	2.778 (J)	[PC]
958	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.30	2.778 (J)	[PC]
959	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.62	2.778 (J)	[PC]
960	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.30	2.780 (J)	[PC]
961	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.16	2.782 (J)	[PC]
962	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.36	2.783 (J)	[PC]
963	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.66	2.784 (J)	[A2M2]
964	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	2.785 (J)	[PC]
965	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.66	2.785 (J)	[A2M2]
966	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.36	2.788 (J)	[PC]
967	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.70	2.794 (J)	[PC]
968	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.10	2.795 (J)	[PC]
969	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.59	2.796 (J)	[PC]
970	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.44	2.799 (J)	[PC]
971	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.44	2.800 (J)	[PC]
972	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.76	2.801 (J)	[A2M2]
973	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	2.801 (J)	[PC]
974	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.46	2.801 (J)	[PC]
975	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.62	2.804 (J)	[PC]
976	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	2.807 (J)	[PC]
977	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	2.808 (J)	[A2M2]
978	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1243.96	2.809 (J)	[A2M2]
979	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.18	2.810 (J)	[PC]
980	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.18	2.811 (J)	[PC]
981	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.59	2.813 (J)	[PC]
982	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.92	2.813 (J)	[PC]
983	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.92	2.817 (J)	[PC]
984	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	2.818 (J)	[PC]
985	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	2.821 (J)	[A2M2]
986	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.51	2.824 (J)	[PC]
987	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	2.832 (J)	[A2M2]
988	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.76	2.834 (J)	[A2M2]
989	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.46	2.835 (J)	[PC]
990	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.16	2.835 (J)	[PC]
991	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.76	2.836 (J)	[A2M2]
992	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.70	2.837 (J)	[PC]
993	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	2.838 (J)	[A2M2]
994	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	2.839 (J)	[A2M2]
995	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.51	2.842 (J)	[PC]
996	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.61	2.842 (J)	[PC]
997	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	2.845 (J)	[PC]
998	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.76	2.846 (J)	[A2M2]
999	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.61	2.847 (J)	[PC]
1000	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	2.856 (J)	[PC]
1001	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1243.96	2.858 (J)	[A2M2]
1002	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.47	2.864 (J)	[PC]

1003	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	2.865 (J)	[PC]
1004	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.70	2.865 (J)	[PC]
1005	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.28	2.865 (J)	[PC]
1006	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.07	2.867 (J)	[A2M2]
1007	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	2.867 (J)	[A2M2]
1008	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.28	2.868 (J)	[PC]
1009	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.07	2.869 (J)	[A2M2]
1010	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	2.869 (J)	[PC]
1011	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	2.872 (J)	[PC]
1012	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.44	2.872 (J)	[A2M2]
1013	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.78	2.873 (J)	[A2M2]
1014	56.00	113.00	24.00	45.60	91.37	79.52	108.22	263.84	2.874 (J)	[PC]
1015	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.47	2.875 (J)	[PC]
1016	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.17	2.875 (J)	[A2M2]
1017	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.17	2.878 (J)	[A2M2]
1018	56.00	113.00	24.00	45.60	91.37	79.52	108.22	263.84	2.881 (J)	[PC]
1019	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	2.884 (J)	[A2M2]
1020	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.78	2.885 (J)	[A2M2]
1021	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.68	2.885 (J)	[PC]
1022	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.74	2.886 (J)	[A2M2]
1023	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.97	2.888 (J)	[A2M2]
1024	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.19	2.892 (J)	[A2M2]
1025	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.89	2.892 (J)	[PC]
1026	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.74	2.894 (J)	[A2M2]
1027	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.55	2.897 (J)	[A2M2]
1028	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.44	2.897 (J)	[A2M2]
1029	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.64	2.898 (J)	[PC]
1030	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.08	2.901 (J)	[PC]
1031	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.14	2.901 (J)	[PC]
1032	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.47	2.902 (J)	[A2M2]
1033	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.29	2.903 (J)	[PC]
1034	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	2.903 (J)	[PC]
1035	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.71	2.903 (J)	[PC]
1036	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.14	2.904 (J)	[PC]
1037	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.907 (J)	[PC]
1038	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.71	2.911 (J)	[PC]
1039	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.08	2.912 (J)	[PC]
1040	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.70	2.913 (J)	[A2M2]
1041	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.70	2.913 (J)	[PC]
1042	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.68	2.914 (J)	[PC]
1043	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.89	2.915 (J)	[PC]
1044	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	2.918 (J)	[PC]
1045	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.50	2.918 (J)	[A2M2]
1046	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.47	2.920 (J)	[A2M2]
1047	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.17	2.923 (J)	[A2M2]
1048	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.39	2.925 (J)	[A2M2]
1049	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.39	2.926 (J)	[A2M2]
1050	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.55	2.926 (J)	[A2M2]
1051	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.69	2.932 (J)	[A2M2]
1052	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.21	2.933 (J)	[PC]
1053	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.50	2.934 (J)	[A2M2]

1054	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.70	2.934 (J)	[A2M2]
1055	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.29	2.934 (J)	[PC]
1056	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	2.934 (J)	[A2M2]
1057	36.00	88.00	24.00	16.45	74.08	57.83	97.97	772.04	2.935 (J)	[PC]
1058	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.17	2.935 (J)	[A2M2]
1059	41.00	98.00	24.00	25.38	79.78	64.72	101.68	517.09	2.936 (J)	[PC]
1060	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.27	2.938 (J)	[PC]
1061	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.69	2.939 (J)	[A2M2]
1062	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.85	2.939 (J)	[PC]
1063	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.67	2.942 (J)	[A2M2]
1064	41.00	98.00	24.00	25.38	79.78	64.72	101.68	517.09	2.946 (J)	[PC]
1065	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.97	2.946 (J)	[A2M2]
1066	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.19	2.948 (J)	[A2M2]
1067	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.85	2.950 (J)	[PC]
1068	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.39	2.950 (J)	[PC]
1069	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.39	2.951 (J)	[PC]
1070	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	2.952 (J)	[PC]
1071	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	2.952 (J)	[PC]
1072	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.21	2.953 (J)	[PC]
1073	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.954 (J)	[PC]
1074	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	2.955 (J)	[PC]
1075	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.91	2.955 (J)	[A2M2]
1076	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	2.955 (J)	[PC]
1077	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.51	2.957 (J)	[PC]
1078	56.00	113.00	27.00	42.73	89.49	82.59	108.34	406.99	2.959 (J)	[PC]
1079	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	2.960 (J)	[A2M2]
1080	56.00	113.00	27.00	42.73	89.49	82.59	108.34	406.99	2.961 (J)	[PC]
1081	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.64	2.961 (J)	[PC]
1082	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.67	2.967 (J)	[PC]
1083	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	2.968 (J)	[PC]
1084	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.08	2.969 (J)	[A2M2]
1085	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	2.974 (J)	[PC]
1086	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.95	2.974 (J)	[PC]
1087	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	2.975 (J)	[PC]
1088	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	2.977 (J)	[PC]
1089	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	2.977 (J)	[PC]
1090	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	2.981 (J)	[PC]
1091	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.08	2.982 (J)	[A2M2]
1092	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	2.984 (J)	[PC]
1093	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.38	2.985 (J)	[A2M2]
1094	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.95	2.986 (J)	[PC]
1095	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.79	2.991 (J)	[PC]
1096	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	2.992 (J)	[A2M2]
1097	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	2.993 (J)	[A2M2]
1098	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.21	2.994 (J)	[PC]
1099	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.37	2.995 (J)	[A2M2]
1100	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.67	2.995 (J)	[A2M2]
1101	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	2.995 (J)	[A2M2]
1102	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.34	2.996 (J)	[A2M2]
1103	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.27	2.996 (J)	[PC]
1104	36.00	88.00	24.00	16.45	74.08	57.83	97.97	772.04	2.998 (J)	[PC]

1105	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.40	2.998 (J)	[PC]
1106	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.60	2.998 (J)	[PC]
1107	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.21	2.999 (J)	[PC]
1108	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.55	3.004 (J)	[PC]
1109	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.79	3.004 (J)	[PC]
1110	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.91	3.005 (J)	[A2M2]
1111	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.46	3.005 (J)	[PC]
1112	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.37	3.006 (J)	[A2M2]
1113	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	3.009 (J)	[PC]
1114	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.00	3.011 (J)	[PC]
1115	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.77	3.011 (J)	[PC]
1116	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	3.012 (J)	[PC]
1117	61.00	113.00	21.00	51.32	94.36	81.47	108.30	218.06	3.015 (J)	[PC]
1118	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.23	3.019 (J)	[PC]
1119	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.46	3.019 (J)	[PC]
1120	61.00	113.00	21.00	51.32	94.36	81.47	108.30	218.06	3.019 (J)	[PC]
1121	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	3.020 (J)	[PC]
1122	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	3.021 (J)	[PC]
1123	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.37	3.021 (J)	[PC]
1124	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	3.021 (J)	[PC]
1125	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	3.023 (J)	[A2M2]
1126	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.61	3.024 (J)	[A2M2]
1127	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.37	3.025 (J)	[PC]
1128	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.09	3.026 (J)	[PC]
1129	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.88	3.026 (J)	[PC]
1130	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.23	3.027 (J)	[PC]
1131	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	3.027 (J)	[A2M2]
1132	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.51	3.027 (J)	[PC]
1133	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	3.030 (J)	[PC]
1134	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.00	3.030 (J)	[PC]
1135	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	3.030 (J)	[PC]
1136	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.38	3.030 (J)	[A2M2]
1137	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.43	3.032 (J)	[A2M2]
1138	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	3.033 (J)	[A2M2]
1139	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	3.037 (J)	[A2M2]
1140	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.40	3.039 (J)	[PC]
1141	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.00	3.040 (J)	[PC]
1142	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.00	3.042 (J)	[PC]
1143	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.60	3.042 (J)	[PC]
1144	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.34	3.042 (J)	[A2M2]
1145	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	3.043 (J)	[A2M2]
1146	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	3.043 (J)	[PC]
1147	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.44	3.044 (J)	[A2M2]
1148	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.28	3.044 (J)	[PC]
1149	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.95	3.044 (J)	[A2M2]
1150	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.61	3.044 (J)	[A2M2]
1151	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.67	3.046 (J)	[A2M2]
1152	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.28	3.046 (J)	[PC]
1153	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.28	3.047 (J)	[PC]
1154	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	3.047 (J)	[PC]
1155	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.67	3.047 (J)	[PC]

1156	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.77	3.048 (J)	[PC]
1157	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	3.048 (J)	[A2M2]
1158	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	3.049 (J)	[A2M2]
1159	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.28	3.049 (J)	[PC]
1160	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.67	3.051 (J)	[A2M2]
1161	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	3.056 (J)	[PC]
1162	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.44	3.057 (J)	[A2M2]
1163	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.55	3.059 (J)	[PC]
1164	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.95	3.062 (J)	[A2M2]
1165	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	3.068 (J)	[PC]
1166	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.47	3.069 (J)	[A2M2]
1167	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	3.071 (J)	[PC]
1168	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.073 (J)	[A2M2]
1169	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.27	3.074 (J)	[A2M2]
1170	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.43	3.076 (J)	[A2M2]
1171	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	3.076 (J)	[A2M2]
1172	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.68	3.076 (J)	[PC]
1173	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	3.077 (J)	[PC]
1174	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.27	3.077 (J)	[A2M2]
1175	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.88	3.078 (J)	[PC]
1176	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.42	3.085 (J)	[PC]
1177	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.32	3.090 (J)	[PC]
1178	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.27	3.090 (J)	[A2M2]
1179	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	3.091 (J)	[PC]
1180	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	3.091 (J)	[PC]
1181	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.68	3.093 (J)	[PC]
1182	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.47	3.099 (J)	[A2M2]
1183	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.42	3.100 (J)	[PC]
1184	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.41	3.102 (J)	[PC]
1185	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.09	3.103 (J)	[PC]
1186	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1142.93	3.104 (J)	[A2M2]
1187	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	3.109 (J)	[PC]
1188	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	3.110 (J)	[PC]
1189	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	3.111 (J)	[PC]
1190	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	3.114 (J)	[PC]
1191	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.41	3.117 (J)	[PC]
1192	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	3.124 (J)	[A2M2]
1193	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	3.127 (J)	[PC]
1194	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.27	3.131 (J)	[A2M2]
1195	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.64	3.132 (J)	[A2M2]
1196	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.134 (J)	[A2M2]
1197	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.64	3.135 (J)	[A2M2]
1198	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.80	3.137 (J)	[A2M2]
1199	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.21	3.141 (J)	[PC]
1200	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1142.93	3.145 (J)	[A2M2]
1201	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.92	3.152 (J)	[PC]
1202	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.92	3.152 (J)	[PC]
1203	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	3.154 (J)	[PC]
1204	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	3.155 (J)	[PC]
1205	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.80	3.161 (J)	[A2M2]
1206	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.32	3.162 (J)	[PC]

1207	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	3.164 (J)	[A2M2]
1208	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.45	3.165 (J)	[PC]
1209	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.21	3.171 (J)	[PC]
1210	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	3.173 (J)	[PC]
1211	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	3.173 (J)	[PC]
1212	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.94	3.178 (J)	[A2M2]
1213	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	3.183 (J)	[A2M2]
1214	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.29	3.186 (J)	[PC]
1215	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.37	3.186 (J)	[PC]
1216	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.21	3.189 (J)	[PC]
1217	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.29	3.189 (J)	[PC]
1218	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.21	3.189 (J)	[PC]
1219	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.92	3.193 (J)	[PC]
1220	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.94	3.200 (J)	[A2M2]
1221	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	3.201 (J)	[PC]
1222	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.28	3.202 (J)	[PC]
1223	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.27	3.203 (J)	[A2M2]
1224	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	3.203 (J)	[A2M2]
1225	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.60	3.205 (J)	[A2M2]
1226	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.62	3.210 (J)	[PC]
1227	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.93	3.210 (J)	[A2M2]
1228	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.93	3.212 (J)	[A2M2]
1229	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.27	3.212 (J)	[A2M2]
1230	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.11	3.213 (J)	[PC]
1231	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	3.215 (J)	[PC]
1232	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	3.219 (J)	[A2M2]
1233	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.37	3.222 (J)	[PC]
1234	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.28	3.227 (J)	[PC]
1235	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.51	3.227 (J)	[PC]
1236	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	3.228 (J)	[PC]
1237	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.41	3.232 (J)	[PC]
1238	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	3.233 (J)	[A2M2]
1239	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.78	3.233 (J)	[PC]
1240	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.60	3.234 (J)	[A2M2]
1241	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.41	3.235 (J)	[PC]
1242	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.51	3.236 (J)	[PC]
1243	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.89	3.237 (J)	[A2M2]
1244	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.89	3.237 (J)	[A2M2]
1245	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.62	3.237 (J)	[PC]
1246	61.00	103.00	24.00	41.63	88.82	84.37	108.48	742.99	3.238 (J)	[PC]
1247	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.64	3.240 (J)	[PC]
1248	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.45	3.241 (J)	[PC]
1249	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.12	3.242 (J)	[A2M2]
1250	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	3.242 (J)	[A2M2]
1251	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.74	3.244 (J)	[PC]
1252	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	3.244 (J)	[PC]
1253	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.64	3.247 (J)	[A2M2]
1254	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.75	3.249 (J)	[PC]
1255	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	3.250 (J)	[PC]
1256	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.64	3.252 (J)	[PC]
1257	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.75	3.253 (J)	[PC]

1258	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	3.253 (J)	[PC]
1259	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.93	3.255 (J)	[A2M2]
1260	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.30	3.257 (J)	[PC]
1261	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.90	3.259 (J)	[A2M2]
1262	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.92	3.259 (J)	[PC]
1263	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.85	3.261 (J)	[PC]
1264	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.78	3.261 (J)	[PC]
1265	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.25	3.265 (J)	[A2M2]
1266	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	3.268 (J)	[PC]
1267	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.86	3.272 (J)	[A2M2]
1268	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.85	3.275 (J)	[PC]
1269	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.71	3.276 (J)	[PC]
1270	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.32	3.279 (J)	[PC]
1271	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.71	3.279 (J)	[PC]
1272	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.49	3.281 (J)	[PC]
1273	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.32	3.282 (J)	[PC]
1274	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.12	3.283 (J)	[A2M2]
1275	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.93	3.285 (J)	[A2M2]
1276	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.64	3.285 (J)	[A2M2]
1277	61.00	103.00	24.00	41.63	88.82	84.37	108.48	742.99	3.285 (J)	[PC]
1278	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.11	3.286 (J)	[PC]
1279	61.00	108.00	21.00	47.15	92.21	82.00	108.32	380.99	3.292 (J)	[PC]
1280	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.86	3.294 (J)	[A2M2]
1281	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.66	3.295 (J)	[A2M2]
1282	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.66	3.295 (J)	[A2M2]
1283	61.00	108.00	21.00	47.15	92.21	82.00	108.32	380.99	3.295 (J)	[PC]
1284	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.74	3.296 (J)	[PC]
1285	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.47	3.299 (J)	[PC]
1286	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	3.301 (J)	[PC]
1287	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.38	3.301 (J)	[PC]
1288	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.49	3.306 (J)	[PC]
1289	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	3.313 (J)	[A2M2]
1290	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.30	3.314 (J)	[PC]
1291	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.56	3.316 (J)	[PC]
1292	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.32	3.316 (J)	[PC]
1293	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.90	3.320 (J)	[A2M2]
1294	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.38	3.321 (J)	[PC]
1295	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.56	3.324 (J)	[PC]
1296	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	3.325 (J)	[PC]
1297	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	3.325 (J)	[PC]
1298	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	3.325 (J)	[PC]
1299	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	3.326 (J)	[PC]
1300	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.25	3.328 (J)	[A2M2]
1301	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	3.334 (J)	[PC]
1302	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.41	3.335 (J)	[A2M2]
1303	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	3.336 (J)	[PC]
1304	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	3.339 (J)	[PC]
1305	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.47	3.339 (J)	[PC]
1306	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.41	3.341 (J)	[A2M2]
1307	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.80	3.349 (J)	[A2M2]
1308	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.32	3.350 (J)	[PC]

1309	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.95	3.354 (J)	[PC]
1310	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.08	3.355 (J)	[PC]
1311	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.80	3.356 (J)	[A2M2]
1312	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.41	3.358 (J)	[PC]
1313	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.21	3.359 (J)	[A2M2]
1314	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.81	3.359 (J)	[A2M2]
1315	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	3.360 (J)	[PC]
1316	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	3.369 (J)	[PC]
1317	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.08	3.371 (J)	[PC]
1318	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.21	3.372 (J)	[A2M2]
1319	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.35	3.375 (J)	[A2M2]
1320	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.74	3.376 (J)	[PC]
1321	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.95	3.378 (J)	[PC]
1322	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.81	3.379 (J)	[A2M2]
1323	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.19	3.382 (J)	[A2M2]
1324	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	3.383 (J)	[PC]
1325	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.35	3.384 (J)	[A2M2]
1326	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.74	3.384 (J)	[PC]
1327	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	3.388 (J)	[PC]
1328	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	3.388 (J)	[PC]
1329	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.53	3.389 (J)	[A2M2]
1330	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	3.391 (J)	[PC]
1331	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.12	3.397 (J)	[A2M2]
1332	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.41	3.399 (J)	[PC]
1333	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	3.401 (J)	[PC]
1334	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	3.403 (J)	[A2M2]
1335	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.93	3.405 (J)	[A2M2]
1336	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	3.412 (J)	[A2M2]
1337	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.93	3.414 (J)	[A2M2]
1338	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.23	3.415 (J)	[A2M2]
1339	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.40	3.417 (J)	[A2M2]
1340	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	3.418 (J)	[PC]
1341	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.40	3.422 (J)	[A2M2]
1342	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.09	3.425 (J)	[A2M2]
1343	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.19	3.426 (J)	[A2M2]
1344	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.12	3.430 (J)	[A2M2]
1345	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.23	3.433 (J)	[A2M2]
1346	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	3.436 (J)	[A2M2]
1347	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.48	3.438 (J)	[A2M2]
1348	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.09	3.442 (J)	[A2M2]
1349	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.53	3.446 (J)	[A2M2]
1350	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.42	3.450 (J)	[PC]
1351	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	3.456 (J)	[PC]
1352	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.48	3.458 (J)	[A2M2]
1353	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.07	3.459 (J)	[A2M2]
1354	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	3.468 (J)	[A2M2]
1355	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.35	3.470 (J)	[A2M2]
1356	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.42	3.472 (J)	[PC]
1357	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.47	3.479 (J)	[A2M2]
1358	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.07	3.479 (J)	[A2M2]
1359	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.66	3.480 (J)	[PC]

1360	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.66	3.482 (J)	[PC]
1361	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.35	3.484 (J)	[A2M2]
1362	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.47	3.500 (J)	[A2M2]
1363	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.76	3.501 (J)	[PC]
1364	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	3.510 (J)	[PC]
1365	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1243.96	3.511 (J)	[PC]
1366	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.85	3.511 (J)	[A2M2]
1367	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.85	3.520 (J)	[A2M2]
1368	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	3.526 (J)	[PC]
1369	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	3.540 (J)	[PC]
1370	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.76	3.543 (J)	[PC]
1371	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.76	3.545 (J)	[PC]
1372	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	3.548 (J)	[PC]
1373	71.00	113.00	18.00	59.60	99.07	88.73	109.91	227.98	3.549 (J)	[A2M2]
1374	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	3.549 (J)	[PC]
1375	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.75	3.552 (J)	[A2M2]
1376	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.55	3.555 (J)	[A2M2]
1377	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.76	3.558 (J)	[PC]
1378	71.00	108.00	12.00	61.84	100.25	82.99	108.35	152.98	3.561 (J)	[A2M2]
1379	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.94	3.566 (J)	[A2M2]
1380	71.00	113.00	18.00	59.60	99.07	88.73	109.91	227.98	3.567 (J)	[A2M2]
1381	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.57	3.567 (J)	[A2M2]
1382	71.00	108.00	12.00	61.84	100.25	82.99	108.35	152.98	3.569 (J)	[A2M2]
1383	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1243.96	3.573 (J)	[PC]
1384	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.07	3.584 (J)	[PC]
1385	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	3.584 (J)	[PC]
1386	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.07	3.586 (J)	[PC]
1387	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.45	3.588 (J)	[A2M2]
1388	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.44	3.590 (J)	[PC]
1389	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.78	3.591 (J)	[PC]
1390	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.57	3.592 (J)	[A2M2]
1391	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.17	3.593 (J)	[PC]
1392	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.45	3.596 (J)	[A2M2]
1393	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.17	3.598 (J)	[PC]
1394	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.55	3.600 (J)	[A2M2]
1395	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.04	3.602 (J)	[A2M2]
1396	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.75	3.603 (J)	[A2M2]
1397	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.71	3.604 (J)	[A2M2]
1398	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	3.605 (J)	[PC]
1399	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.78	3.607 (J)	[PC]
1400	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.74	3.607 (J)	[PC]
1401	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.97	3.610 (J)	[PC]
1402	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.19	3.615 (J)	[PC]
1403	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.71	3.616 (J)	[A2M2]
1404	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.74	3.617 (J)	[PC]
1405	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.55	3.622 (J)	[PC]
1406	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.44	3.622 (J)	[PC]
1407	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.94	3.623 (J)	[A2M2]
1408	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.04	3.624 (J)	[A2M2]
1409	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.47	3.627 (J)	[PC]
1410	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.19	3.637 (J)	[A2M2]

1411	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.70	3.641 (J)	[PC]
1412	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.50	3.648 (J)	[PC]
1413	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.47	3.650 (J)	[PC]
1414	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.17	3.654 (J)	[PC]
1415	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.39	3.656 (J)	[PC]
1416	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.39	3.657 (J)	[PC]
1417	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.55	3.658 (J)	[PC]
1418	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.19	3.659 (J)	[A2M2]
1419	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.69	3.665 (J)	[PC]
1420	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.50	3.667 (J)	[PC]
1421	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.70	3.668 (J)	[PC]
1422	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	3.668 (J)	[PC]
1423	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.17	3.669 (J)	[PC]
1424	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.18	3.672 (J)	[A2M2]
1425	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.69	3.673 (J)	[PC]
1426	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.31	3.674 (J)	[A2M2]
1427	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.67	3.678 (J)	[PC]
1428	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.97	3.682 (J)	[PC]
1429	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.19	3.685 (J)	[PC]
1430	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.91	3.693 (J)	[PC]
1431	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.73	3.696 (J)	[A2M2]
1432	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	3.701 (J)	[PC]
1433	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.73	3.702 (J)	[A2M2]
1434	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.18	3.706 (J)	[A2M2]
1435	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.08	3.711 (J)	[PC]
1436	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.31	3.720 (J)	[A2M2]
1437	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.54	3.724 (J)	[A2M2]
1438	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.08	3.728 (J)	[PC]
1439	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.38	3.731 (J)	[PC]
1440	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.54	3.733 (J)	[A2M2]
1441	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.08	3.736 (J)	[A2M2]
1442	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	3.740 (J)	[PC]
1443	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	3.741 (J)	[PC]
1444	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.37	3.744 (J)	[PC]
1445	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.67	3.744 (J)	[PC]
1446	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	3.744 (J)	[PC]
1447	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.34	3.745 (J)	[PC]
1448	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.23	3.750 (J)	[A2M2]
1449	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.91	3.756 (J)	[PC]
1450	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.37	3.757 (J)	[PC]
1451	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.85	3.771 (J)	[A2M2]
1452	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	3.778 (J)	[PC]
1453	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.61	3.780 (J)	[PC]
1454	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.08	3.781 (J)	[A2M2]
1455	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	3.781 (J)	[A2M2]
1456	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.23	3.782 (J)	[A2M2]
1457	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	3.784 (J)	[PC]
1458	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.38	3.787 (J)	[PC]
1459	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.43	3.790 (J)	[PC]
1460	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	3.791 (J)	[A2M2]
1461	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	3.792 (J)	[PC]

1462	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	3.796 (J)	[PC]
1463	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.85	3.801 (J)	[A2M2]
1464	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.34	3.803 (J)	[PC]
1465	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	3.803 (J)	[PC]
1466	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.02	3.804 (J)	[A2M2]
1467	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.44	3.804 (J)	[PC]
1468	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.95	3.805 (J)	[PC]
1469	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.61	3.805 (J)	[PC]
1470	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.67	3.807 (J)	[PC]
1471	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	3.808 (J)	[A2M2]
1472	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	3.810 (J)	[PC]
1473	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	3.811 (J)	[PC]
1474	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.67	3.814 (J)	[PC]
1475	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.44	3.821 (J)	[PC]
1476	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.03	3.827 (J)	[A2M2]
1477	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.95	3.828 (J)	[PC]
1478	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.47	3.837 (J)	[PC]
1479	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.841 (J)	[PC]
1480	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.27	3.842 (J)	[PC]
1481	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.43	3.845 (J)	[PC]
1482	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	3.845 (J)	[PC]
1483	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.02	3.846 (J)	[A2M2]
1484	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.27	3.847 (J)	[PC]
1485	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	3.851 (J)	[A2M2]
1486	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.27	3.863 (J)	[PC]
1487	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.03	3.865 (J)	[A2M2]
1488	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.47	3.874 (J)	[PC]
1489	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	3.875 (J)	[A2M2]
1490	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1142.93	3.880 (J)	[PC]
1491	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	3.905 (J)	[PC]
1492	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.27	3.914 (J)	[PC]
1493	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.64	3.915 (J)	[PC]
1494	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.918 (J)	[PC]
1495	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.64	3.918 (J)	[PC]
1496	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.80	3.921 (J)	[PC]
1497	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.86	3.924 (J)	[A2M2]
1498	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1142.93	3.931 (J)	[PC]
1499	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.25	3.949 (J)	[A2M2]
1500	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.80	3.951 (J)	[PC]
1501	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	3.955 (J)	[PC]
1502	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.86	3.959 (J)	[A2M2]
1503	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	3.968 (J)	[A2M2]
1504	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.94	3.972 (J)	[PC]
1505	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.25	3.974 (J)	[A2M2]
1506	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.01	3.978 (J)	[A2M2]
1507	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	3.979 (J)	[PC]
1508	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.54	3.996 (J)	[A2M2]
1509	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.43	4.000 (J)	[A2M2]
1510	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.94	4.000 (J)	[PC]
1511	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.01	4.001 (J)	[A2M2]
1512	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.27	4.004 (J)	[PC]

1513	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	4.004 (J)	[PC]
1514	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.60	4.006 (J)	[PC]
1515	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.93	4.013 (J)	[PC]
1516	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.93	4.015 (J)	[PC]
1517	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.27	4.015 (J)	[PC]
1518	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	4.024 (J)	[PC]
1519	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.69	4.029 (J)	[A2M2]
1520	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.69	4.035 (J)	[A2M2]
1521	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.54	4.039 (J)	[A2M2]
1522	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	4.041 (J)	[PC]
1523	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.60	4.043 (J)	[PC]
1524	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.89	4.046 (J)	[PC]
1525	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.89	4.047 (J)	[PC]
1526	86.00	113.00	21.00	67.53	103.01	106.55	117.35	548.97	4.050 (J)	[A2M2]
1527	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.12	4.053 (J)	[PC]
1528	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	4.053 (J)	[PC]
1529	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.64	4.059 (J)	[PC]
1530	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.43	4.066 (J)	[A2M2]
1531	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.93	4.068 (J)	[PC]
1532	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.90	4.073 (J)	[PC]
1533	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.49	4.073 (J)	[A2M2]
1534	86.00	113.00	21.00	67.53	103.01	106.55	117.35	548.97	4.075 (J)	[A2M2]
1535	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.87	4.078 (J)	[A2M2]
1536	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.25	4.081 (J)	[PC]
1537	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.86	4.090 (J)	[PC]
1538	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.12	4.104 (J)	[PC]
1539	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.93	4.106 (J)	[PC]
1540	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.64	4.106 (J)	[PC]
1541	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	4.109 (J)	[A2M2]
1542	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.86	4.117 (J)	[PC]
1543	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	4.118 (J)	[A2M2]
1544	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.66	4.119 (J)	[PC]
1545	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.66	4.119 (J)	[PC]
1546	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	4.120 (J)	[A2M2]
1547	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.49	4.126 (J)	[A2M2]
1548	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.87	4.130 (J)	[A2M2]
1549	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	4.136 (J)	[A2M2]
1550	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	4.141 (J)	[PC]
1551	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.90	4.150 (J)	[PC]
1552	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.25	4.159 (J)	[PC]
1553	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.41	4.169 (J)	[PC]
1554	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.55	4.171 (J)	[A2M2]
1555	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.41	4.176 (J)	[PC]
1556	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.80	4.186 (J)	[PC]
1557	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.55	4.187 (J)	[A2M2]
1558	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.80	4.194 (J)	[PC]
1559	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.21	4.199 (J)	[PC]
1560	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.81	4.199 (J)	[PC]
1561	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.91	4.201 (J)	[A2M2]
1562	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.91	4.215 (J)	[A2M2]
1563	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.21	4.215 (J)	[PC]

1564	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.35	4.218 (J)	[PC]
1565	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.81	4.224 (J)	[PC]
1566	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.19	4.228 (J)	[PC]
1567	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.93	4.229 (J)	[A2M2]
1568	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.35	4.229 (J)	[PC]
1569	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.38	4.232 (J)	[A2M2]
1570	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.53	4.236 (J)	[PC]
1571	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.12	4.246 (J)	[PC]
1572	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.38	4.247 (J)	[A2M2]
1573	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	4.253 (J)	[PC]
1574	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.93	4.257 (J)	[PC]
1575	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	4.265 (J)	[PC]
1576	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.93	4.268 (J)	[PC]
1577	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.23	4.269 (J)	[PC]
1578	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.40	4.272 (J)	[PC]
1579	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.60	4.277 (J)	[A2M2]
1580	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.40	4.278 (J)	[PC]
1581	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.09	4.282 (J)	[PC]
1582	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.19	4.282 (J)	[PC]
1583	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.12	4.288 (J)	[PC]
1584	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.23	4.291 (J)	[PC]
1585	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	4.295 (J)	[PC]
1586	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.48	4.298 (J)	[PC]
1587	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.60	4.303 (J)	[A2M2]
1588	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.09	4.303 (J)	[PC]
1589	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.53	4.308 (J)	[PC]
1590	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.80	4.317 (J)	[A2M2]
1591	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.48	4.322 (J)	[PC]
1592	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.93	4.324 (J)	[A2M2]
1593	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.07	4.324 (J)	[PC]
1594	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	4.335 (J)	[PC]
1595	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.35	4.338 (J)	[PC]
1596	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.80	4.341 (J)	[A2M2]
1597	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.11	4.342 (J)	[A2M2]
1598	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.47	4.348 (J)	[PC]
1599	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.07	4.349 (J)	[PC]
1600	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.11	4.354 (J)	[A2M2]
1601	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.35	4.355 (J)	[PC]
1602	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.47	4.375 (J)	[PC]
1603	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.24	4.376 (J)	[A2M2]
1604	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.87	4.383 (J)	[A2M2]
1605	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.85	4.389 (J)	[PC]
1606	16.00	88.00	18.00	2.65	75.92	33.66	84.51	133.85	4.392 (J)	[A2M2]
1607	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.85	4.400 (J)	[PC]
1608	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.87	4.415 (J)	[A2M2]
1609	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.24	4.418 (J)	[A2M2]
1610	16.00	88.00	18.00	2.65	75.92	33.66	84.51	133.85	4.427 (J)	[A2M2]
1611	71.00	113.00	18.00	59.60	99.07	88.73	109.91	227.98	4.436 (J)	[PC]
1612	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.95	4.436 (J)	[A2M2]
1613	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.75	4.440 (J)	[PC]
1614	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.49	4.443 (J)	[A2M2]

1615	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.55	4.444 (J)	[PC]
1616	71.00	108.00	12.00	61.84	100.25	82.99	108.35	152.98	4.451 (J)	[PC]
1617	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.94	4.457 (J)	[PC]
1618	71.00	113.00	18.00	59.60	99.07	88.73	109.91	227.98	4.459 (J)	[PC]
1619	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.57	4.459 (J)	[PC]
1620	71.00	108.00	12.00	61.84	100.25	82.99	108.35	152.98	4.461 (J)	[PC]
1621	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.49	4.471 (J)	[A2M2]
1622	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.45	4.485 (J)	[PC]
1623	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.57	4.491 (J)	[PC]
1624	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.45	4.495 (J)	[PC]
1625	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.95	4.497 (J)	[A2M2]
1626	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.55	4.500 (J)	[PC]
1627	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.04	4.502 (J)	[PC]
1628	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.75	4.504 (J)	[PC]
1629	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.71	4.505 (J)	[PC]
1630	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	4.516 (J)	[A2M2]
1631	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.71	4.520 (J)	[PC]
1632	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.68	4.527 (J)	[A2M2]
1633	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.94	4.529 (J)	[PC]
1634	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.01	4.529 (J)	[A2M2]
1635	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.04	4.530 (J)	[PC]
1636	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.01	4.537 (J)	[A2M2]
1637	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	4.539 (J)	[A2M2]
1638	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.19	4.546 (J)	[PC]
1639	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.28	4.571 (J)	[A2M2]
1640	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.19	4.574 (J)	[PC]
1641	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.18	4.590 (J)	[PC]
1642	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.31	4.592 (J)	[PC]
1643	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.68	4.603 (J)	[A2M2]
1644	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.28	4.615 (J)	[A2M2]
1645	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.73	4.620 (J)	[PC]
1646	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.73	4.628 (J)	[PC]
1647	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.18	4.632 (J)	[PC]
1648	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.31	4.650 (J)	[PC]
1649	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.54	4.654 (J)	[PC]
1650	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.54	4.666 (J)	[PC]
1651	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.08	4.670 (J)	[PC]
1652	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.23	4.688 (J)	[PC]
1653	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.64	4.705 (J)	[A2M2]
1654	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.64	4.710 (J)	[A2M2]
1655	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.85	4.714 (J)	[PC]
1656	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.44	4.723 (J)	[A2M2]
1657	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.08	4.726 (J)	[PC]
1658	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	4.726 (J)	[PC]
1659	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.23	4.728 (J)	[PC]
1660	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	4.738 (J)	[PC]
1661	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.85	4.751 (J)	[PC]
1662	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.02	4.755 (J)	[PC]
1663	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	4.760 (J)	[PC]
1664	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.23	4.772 (J)	[A2M2]
1665	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.44	4.779 (J)	[A2M2]

1666	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.03	4.783 (J)	[PC]
1667	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.02	4.808 (J)	[PC]
1668	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	4.814 (J)	[PC]
1669	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.03	4.831 (J)	[PC]
1670	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	4.843 (J)	[PC]
1671	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.23	4.860 (J)	[A2M2]
1672	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.86	4.905 (J)	[PC]
1673	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.25	4.936 (J)	[PC]
1674	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.86	4.949 (J)	[PC]
1675	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	4.960 (J)	[PC]
1676	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.25	4.968 (J)	[PC]
1677	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.01	4.972 (J)	[PC]
1678	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.54	4.995 (J)	[PC]
1679	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.43	4.999 (J)	[PC]
1680	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.01	5.002 (J)	[PC]
1681	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.17	5.012 (J)	[A2M2]
1682	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.69	5.036 (J)	[PC]
1683	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.17	5.041 (J)	[A2M2]
1684	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.69	5.044 (J)	[PC]
1685	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.54	5.049 (J)	[PC]
1686	86.00	113.00	21.00	67.53	103.01	106.55	117.35	548.97	5.063 (J)	[PC]
1687	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.20	5.074 (J)	[A2M2]
1688	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.43	5.082 (J)	[PC]
1689	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.49	5.092 (J)	[PC]
1690	86.00	113.00	21.00	67.53	103.01	106.55	117.35	548.97	5.094 (J)	[PC]
1691	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.87	5.097 (J)	[PC]
1692	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	5.136 (J)	[PC]
1693	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	5.147 (J)	[PC]
1694	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	5.148 (J)	[A2M2]
1695	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	5.150 (J)	[PC]
1696	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.49	5.158 (J)	[PC]
1697	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.87	5.163 (J)	[PC]
1698	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.49	5.167 (J)	[A2M2]
1699	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	5.170 (J)	[PC]
1700	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.20	5.185 (J)	[A2M2]
1701	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.97	5.189 (J)	[A2M2]
1702	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.97	5.202 (J)	[A2M2]
1703	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.55	5.213 (J)	[PC]
1704	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.55	5.234 (J)	[PC]
1705	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.49	5.247 (J)	[A2M2]
1706	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.91	5.252 (J)	[PC]
1707	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.91	5.268 (J)	[PC]
1708	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	5.275 (J)	[A2M2]
1709	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.76	5.283 (J)	[A2M2]
1710	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.93	5.286 (J)	[PC]
1711	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.38	5.290 (J)	[PC]
1712	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.38	5.308 (J)	[PC]
1713	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.60	5.346 (J)	[PC]
1714	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.76	5.365 (J)	[A2M2]
1715	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.60	5.378 (J)	[PC]
1716	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.80	5.397 (J)	[PC]

1717	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.93	5.405 (J)	[PC]
1718	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.80	5.427 (J)	[PC]
1719	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.11	5.427 (J)	[PC]
1720	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.11	5.443 (J)	[PC]
1721	86.00	113.00	15.00	72.59	106.27	100.91	114.61	246.05	5.460 (J)	[A2M2]
1722	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.24	5.470 (J)	[PC]
1723	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.87	5.478 (J)	[PC]
1724	86.00	113.00	15.00	72.59	106.27	100.91	114.61	246.05	5.489 (J)	[A2M2]
1725	16.00	88.00	18.00	2.65	75.92	33.66	84.51	133.85	5.490 (J)	[PC]
1726	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.87	5.518 (J)	[PC]
1727	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.24	5.523 (J)	[PC]
1728	16.00	88.00	18.00	2.65	75.92	33.66	84.51	133.85	5.534 (J)	[PC]
1729	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.95	5.545 (J)	[PC]
1730	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.49	5.554 (J)	[PC]
1731	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.49	5.589 (J)	[PC]
1732	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.95	5.621 (J)	[PC]
1733	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	5.645 (J)	[PC]
1734	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.68	5.658 (J)	[PC]
1735	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.01	5.661 (J)	[PC]
1736	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.01	5.672 (J)	[PC]
1737	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	5.674 (J)	[PC]
1738	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.28	5.714 (J)	[PC]
1739	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.46	5.738 (J)	[A2M2]
1740	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.68	5.754 (J)	[PC]
1741	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.28	5.769 (J)	[PC]
1742	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.46	5.809 (J)	[A2M2]
1743	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	5.872 (J)	[A2M2]
1744	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.64	5.882 (J)	[PC]
1745	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	5.883 (J)	[A2M2]
1746	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.64	5.887 (J)	[PC]
1747	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.44	5.903 (J)	[PC]
1748	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	5.910 (J)	[A2M2]
1749	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.23	5.965 (J)	[PC]
1750	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	5.967 (J)	[A2M2]
1751	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.44	5.973 (J)	[PC]
1752	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	6.018 (J)	[A2M2]
1753	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.23	6.075 (J)	[PC]
1754	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	6.097 (J)	[A2M2]
1755	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.08	6.122 (J)	[A2M2]
1756	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.91	6.131 (J)	[A2M2]
1757	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.91	6.182 (J)	[A2M2]
1758	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.29	6.183 (J)	[A2M2]
1759	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.08	6.228 (J)	[A2M2]
1760	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.17	6.266 (J)	[PC]
1761	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.29	6.291 (J)	[A2M2]
1762	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.17	6.302 (J)	[PC]
1763	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.73	6.303 (J)	[A2M2]
1764	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.20	6.342 (J)	[PC]
1765	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.73	6.345 (J)	[A2M2]
1766	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	6.435 (J)	[PC]
1767	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.49	6.459 (J)	[PC]

1768	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.85	6.460 (J)	[A2M2]
1769	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.20	6.481 (J)	[PC]
1770	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.97	6.486 (J)	[PC]
1771	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.97	6.503 (J)	[PC]
1772	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.85	6.520 (J)	[A2M2]
1773	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	6.543 (J)	[A2M2]
1774	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.49	6.559 (J)	[PC]
1775	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	6.594 (J)	[PC]
1776	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	6.599 (J)	[A2M2]
1777	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.76	6.604 (J)	[PC]
1778	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	6.660 (J)	[A2M2]
1779	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.76	6.707 (J)	[PC]
1780	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	6.745 (J)	[A2M2]
1781	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	6.804 (J)	[A2M2]
1782	86.00	113.00	15.00	72.59	106.27	100.91	114.61	246.05	6.825 (J)	[PC]
1783	86.00	113.00	15.00	72.59	106.27	100.91	114.61	246.05	6.862 (J)	[PC]
1784	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	6.915 (J)	[A2M2]
1785	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	6.979 (J)	[A2M2]
1786	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	7.060 (J)	[A2M2]
1787	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	7.071 (J)	[A2M2]
1788	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	7.108 (J)	[A2M2]
1789	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.46	7.173 (J)	[PC]
1790	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.46	7.261 (J)	[PC]
1791	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	7.341 (J)	[PC]
1792	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	7.354 (J)	[PC]
1793	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	7.387 (J)	[PC]
1794	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	7.458 (J)	[PC]
1795	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	7.463 (J)	[A2M2]
1796	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	7.522 (J)	[PC]
1797	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.04	7.600 (J)	[A2M2]
1798	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	7.622 (J)	[PC]
1799	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.08	7.652 (J)	[PC]
1800	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.91	7.663 (J)	[PC]
1801	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	7.675 (J)	[A2M2]
1802	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.91	7.728 (J)	[PC]
1803	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.29	7.729 (J)	[PC]
1804	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.04	7.783 (J)	[A2M2]
1805	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.08	7.785 (J)	[PC]
1806	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.29	7.864 (J)	[PC]
1807	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.73	7.879 (J)	[PC]
1808	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.73	7.931 (J)	[PC]
1809	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.88	8.053 (J)	[A2M2]
1810	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.85	8.075 (J)	[PC]
1811	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.85	8.149 (J)	[PC]
1812	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	8.179 (J)	[PC]
1813	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.88	8.180 (J)	[A2M2]
1814	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	8.249 (J)	[PC]
1815	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	8.325 (J)	[PC]
1816	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	8.431 (J)	[PC]
1817	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	8.505 (J)	[PC]
1818	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	8.644 (J)	[PC]

1819	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	8.724 (J)	[PC]
1820	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	8.825 (J)	[PC]
1821	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	8.838 (J)	[PC]
1822	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	8.884 (J)	[PC]
1823	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	9.328 (J)	[PC]
1824	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	9.330 (J)	[A2M2]
1825	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.04	9.501 (J)	[PC]
1826	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	9.594 (J)	[PC]
1827	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	9.678 (J)	[A2M2]
1828	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.04	9.728 (J)	[PC]
1829	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	9.939 (J)	[A2M2]
1830	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.88	10.066 (J)	[PC]
1831	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	10.072 (J)	[A2M2]
1832	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.88	10.225 (J)	[PC]
1833	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	10.233 (J)	[A2M2]
1834	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	10.418 (J)	[A2M2]
1835	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	11.663 (J)	[PC]
1836	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	12.097 (J)	[PC]
1837	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	12.424 (J)	[PC]
1838	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	12.591 (J)	[PC]
1839	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	12.792 (J)	[PC]
1840	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	13.023 (J)	[PC]

Analisi della superficie critica

Simbologia adottata

Le ascisse X sono considerate positive verso destra
Le ordinate Y sono considerate positive verso l'alto
Le strisce sono numerate da valle verso monte

N°	numero d'ordine della striscia
X_s	ascissa sinistra della striscia espressa in m
Y_{ss}	ordinata superiore sinistra della striscia espressa in m
Y_{si}	ordinata inferiore sinistra della striscia espressa in m
X_g	ascissa del baricentro della striscia espressa in m
Y_g	ordinata del baricentro della striscia espressa in m
α	angolo fra la base della striscia e l'orizzontale espresso °(positivo antiorario)
ϕ	angolo d'attrito del terreno lungo la base della striscia
c	coesione del terreno lungo la base della striscia espressa in kPa
L	sviluppo della base della striscia espressa in m(L=b/cosα)
u	pressione neutra lungo la base della striscia espressa in kPa
W	peso della striscia espresso in kN
Q	carico applicato sulla striscia espresso in kN
N	sforzo normale alla base della striscia espresso in kN
T	sforzo tangenziale alla base della striscia espresso in kN
U	pressione neutra alla base della striscia espressa in kN
E_s, E_d	forze orizzontali sulla striscia a sinistra e a destra espresse in kN
X_s, X_d	forze verticali sulla striscia a sinistra e a destra espresse in kN
ID	Indice della superficie interessata dall'intervento

Analisi della superficie 1 - coefficienti parziali caso A2M2 e sisma verso l'alto

Numero di strisce	23	
Coordinate del centro	X[m]= 21.00	Y[m]= 98.00
Raggio del cerchio	R[m]= 24.00	
Intersezione a valle con il profilo topografico	X_v[m]= 17.68	Y_v[m]= 74.23
Intersezione a monte con il profilo topografico	X_m[m]= 43.67	Y_m[m]= 90.11
Coefficiente di sicurezza	C_S= 1.098	

Geometria e caratteristiche strisce

N°	X_s	Y_{ss}	Y_{si}	X_d	Y_{ds}	Y_{di}	X_g	Y_g	L	α	ϕ	c
1	17.68	74.23	74.23	18.66	74.36	74.11	18.33	74.23	0.99	-6.77	41.62	6
2	18.66	74.36	74.11	20.41	75.23	74.01	19.73	74.47	1.75	-3.50	41.62	6
3	20.41	75.23	74.01	22.00	76.43	74.02	21.29	74.94	1.59	0.49	41.62	6
4	22.00	76.43	74.02	23.06	77.23	74.09	22.55	75.42	1.06	3.66	41.62	6
5	23.06	77.23	74.09	24.73	79.23	74.29	23.95	76.19	1.68	6.93	41.62	6
6	24.73	79.23	74.29	25.93	80.23	74.51	25.34	76.99	1.22	10.40	41.62	6
7	25.93	80.23	74.51	27.13	81.23	74.80	26.54	77.60	1.23	13.33	41.62	6
8	27.13	81.23	74.80	28.39	81.90	75.17	27.77	78.17	1.32	16.37	41.62	6
9	28.39	81.90	75.17	29.66	82.56	75.62	29.03	78.71	1.34	19.54	41.62	6
10	29.66	82.56	75.62	30.92	83.23	76.15	30.29	79.29	1.37	22.78	41.62	6
11	30.92	83.23	76.15	32.00	83.74	76.67	31.46	79.85	1.20	25.85	41.62	6
12	32.00	83.74	76.67	33.59	84.48	77.57	32.79	80.52	1.83	29.47	41.62	6

13	33.59	84.48	77.57	35.19	85.23	78.64	34.39	81.39	1.92	33.95	41.62	6
14	35.19	85.23	78.64	35.48	85.39	78.86	35.33	81.95	0.36	36.68	41.62	6
15	35.48	85.39	78.86	36.63	86.00	79.78	36.05	82.43	1.47	38.87	41.62	6
16	36.63	86.00	79.78	37.77	86.62	80.83	37.19	83.23	1.55	42.48	41.62	6
17	37.77	86.62	80.83	38.92	87.23	82.04	38.34	84.10	1.66	46.32	41.62	6
18	38.92	87.23	82.04	39.09	87.34	82.23	39.00	84.64	0.26	48.61	41.62	6
19	39.09	87.34	82.23	39.93	87.83	83.25	39.50	85.08	1.32	50.49	41.62	6
20	39.93	87.83	83.25	40.93	88.41	84.62	40.41	85.94	1.70	54.09	41.62	6
21	40.93	88.41	84.62	41.92	88.99	86.24	41.39	86.97	1.90	58.39	41.62	6
22	41.92	88.99	86.24	42.34	89.23	87.02	42.12	87.81	0.89	61.71	41.62	6
23	42.34	89.23	87.02	43.67	90.11	90.11	42.78	88.76	3.36	66.79	41.62	6

Forze applicate sulle strisce [JANBU]

N°	W	Q	N	T	U	E_s	E_d	X_s	X_d
1	2.16	0.00	1.82	7.21	1.15	0.00	7.39	0.00	0.00
2	26.95	0.00	17.60	24.46	10.10	7.39	31.89	0.00	0.00
3	59.58	0.00	37.43	39.56	20.05	31.89	67.42	0.00	0.00
4	60.15	0.00	38.75	37.55	17.33	67.42	97.75	0.00	0.00
5	136.20	0.00	87.58	80.67	35.75	97.75	154.86	0.00	0.00
6	128.04	0.00	81.30	72.89	31.64	154.86	198.58	0.00	0.00
7	145.87	0.00	90.31	80.26	36.14	198.58	238.88	0.00	0.00
8	166.63	0.00	100.00	88.59	42.49	238.88	273.83	0.00	0.00
9	173.79	0.00	100.64	89.24	46.63	273.83	298.37	0.00	0.00
10	178.84	0.00	100.43	89.24	50.31	298.37	311.68	0.00	0.00
11	154.61	0.00	84.57	75.43	45.59	311.68	313.64	0.00	0.00
12	226.20	0.00	119.28	107.19	72.27	313.64	299.32	0.00	0.00
13	218.93	0.00	112.50	102.24	74.77	299.32	266.56	0.00	0.00
14	38.71	0.00	19.65	18.01	13.78	266.56	258.74	0.00	0.00
15	148.74	0.00	75.11	69.36	54.37	258.74	222.66	0.00	0.00
16	139.89	0.00	70.17	65.84	53.59	222.66	179.34	0.00	0.00
17	127.70	0.00	63.79	61.29	51.45	179.34	130.75	0.00	0.00
18	17.74	0.00	8.85	8.66	7.36	130.75	123.26	0.00	0.00
19	82.25	0.00	41.10	40.95	34.69	123.26	85.96	0.00	0.00
20	83.57	0.00	41.78	43.70	36.15	85.96	43.51	0.00	0.00
21	64.41	0.00	31.90	36.87	27.43	43.51	8.49	0.00	0.00
22	20.23	0.00	9.67	12.99	7.60	8.49	-1.77	0.00	0.00
23	27.07	0.00	7.25	25.47	0.00	-1.77	0.00	0.00	0.00

Dichiarazioni secondo N.T.C. 2008 (punto 10.2)

Analisi e verifiche svolte con l'ausilio di codici di calcolo
Il sottoscritto Iacopo Parenti, in qualità di calcolatore delle opere in progetto, dichiara quanto segue.

Tipo di analisi svolta
L'analisi e le verifiche di stabilità sono condotte con l'ausilio di un codice di calcolo automatico.
I metodi di calcolo implementati sono i classici metodi delle strisce, basati sul concetto dell'equilibrio limite globale. La superficie di rottura è suddivisa in un determinato numero di strisce che consentono di calcolare le grandezze che entrano in gioco nelle equazioni risolutive.
Nel modulo terreni si adotta il criterio di rottura di Mohr-Coulomb. Nel modulo rocce si può adottare il criterio di rottura di Hoek-Brown o di Barton.
Il programma consente di inserire degli interventi di stabilizzazione, che possono intervenire secondo sue modalità diverse: variazione delle forze di interstriscia o resistenza a taglio equivalente.
L'analisi sotto le azioni sismiche è condotta con il metodo dell'analisi statica equivalente secondo le disposizioni del capitolo 7 del DM 14/01/2008.

Origine e caratteristiche dei codici di calcolo

Titolo	STAP - Stabilità Pendii Terreni e Rocce
Versione	11.0
Produttore	Aztec Informatica srl, Casole Bruzio (CS)
Utente	ING. PARENTI IACOPO
Licenza	AIU22951S

Affidabilità dei codici di calcolo
Un attento esame preliminare della documentazione a corredo del software ha consentito di valutarne l'affidabilità. La documentazione fornita dal produttore del software contiene un'esauriente descrizione delle basi teoriche, degli algoritmi impiegati e l'individuazione dei campi d'impiego. La società produttrice Aztec Informatica srl ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

Modalità di presentazione dei risultati
La relazione di calcolo strutturale presenta i dati di calcolo tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità. La relazione di calcolo illustra in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare.

Informazioni generali sull'elaborazione
Il software prevede una serie di controlli automatici che consentono l'individuazione di errori di modellazione, di non rispetto di limitazioni geometriche e di armatura e di presenza di elementi non verificati. Il codice di calcolo consente di visualizzare e controllare, sia in forma grafica che tabellare, i dati del modello strutturale, in modo da avere una visione consapevole del comportamento corretto del modello strutturale.

Giudizio motivato di accettabilità dei risultati
I risultati delle elaborazioni sono stati sottoposti a controlli dal sottoscritto utente del software. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali. Inoltre sulla base di considerazioni riguardanti gli stati tensionali e deformativi

determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni.
In base a quanto sopra, io sottoscritto asserisco che l'elaborazione è corretta ed idonea al caso specifico, pertanto i risultati di calcolo sono da ritenersi validi ed accettabili.

Luogo e data

_____

Il progettista
(Iacopo Parenti)

_____

Progetto: Cava Sassicheto
Ditta: Sa.Des. Costruzioni
Comune: Firenzuola
Progettista: Iacopo Parenti
Direttore dei Lavori: Iacopo Parenti
Impresa: Sa.Des. Costruzioni

Normative di riferimento

- Legge nr. 64 del 02/02/1974.
Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- D.M. LL.PP. del 11/03/1988.
Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
- D.M. 16 Gennaio 1996
Norme Tecniche per le costruzioni in zone sismiche
- Circolare Ministero LL.PP. 15 Ottobre 1996 N. 252 AA.GG./S.T.C.
Istruzioni per l'applicazione delle Norme Tecniche di cui al D.M. 9 Gennaio 1996
- Circolare Ministero LL.PP. 10 Aprile 1997 N. 65/AA.GG.
Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche di cui al D.M. 16 Gennaio 1996

- Norme Tecniche per le Costruzioni 2008 (D.M. 14 Gennaio 2008)
- Circolare 617 del 02/02/2009
Istruzioni per l'applicazione delle Nuove Norme Tecniche per le Costruzioni di cui al D.M. 14 gennaio 2008.

Descrizione metodo di calcolo

La verifica alla stabilità del pendio deve fornire un coefficiente di sicurezza non inferiore a **1.10**.
Viene usata la tecnica della suddivisione a strisce della superficie di scorrimento da analizzare.
In particolare il programma esamina un numero di superfici che dipende dalle impostazioni fornite e che sono riportate nella corrispondente sezione. Il processo iterativo permette di determinare il coefficiente di sicurezza di tutte le superfici analizzate.
Nella descrizione dei metodi di calcolo si adotterà la seguente simbologia:

l lunghezza della base della striscia
α angolo della base della striscia rispetto all'orizzontale
b larghezza della striscia b=l x cos(α)
ϕ angolo di attrito lungo la base della striscia
c coesione lungo la base della striscia
γ peso di volume del terreno
u pressione neutra
W peso della striscia
N sforzo normale alla base della striscia
T sforzo di taglio alla base della striscia
$\mathbf{E_s}$, $\mathbf{E_d}$ forze normali di interstriscia a sinistra e a destra
$\mathbf{X_s}$, $\mathbf{X_d}$ forze tangenziali di interstriscia a sinistra e a destra
$\mathbf{E_a}$, $\mathbf{E_b}$ forze normali di interstriscia alla base ed alla sommità del pendio
ΔX variazione delle forze tangenziali sulla striscia $\mathbf{\Delta X = X_d - X_s}$
ΔE variazione delle forze normali sulla striscia $\mathbf{\Delta E = E_d - E_s}$

Metodo di Janbu (semplificato)

Il coefficiente di sicurezza nel metodo di **Janbu semplificato** si esprime secondo la seguente formula:

$$F = \frac{\Sigma[\, c_i\, b_i + (N_i / \cos(\alpha_i) - u_i\, b_i)\, tg\phi_i \,]}{\Sigma_i\, [\, W_i \tan\alpha_i \,]}$$

dove il termine $\mathbf{N_i}$ è espresso da

$$N_i = [\, W_i - c_i\, l_i \sin\alpha_t / \eta + u_i\, l_i \tan\phi \sin\alpha_t / F \,] / m$$

dove il termine **m** è espresso da

$$m = \cos\alpha + (\sin\alpha \tan\phi) / F$$

In questa espressione **n** è il numero delle strisce considerate, $\mathbf{b_i}$ e $\mathbf{\alpha_i}$ sono la larghezza e l'inclinazione della base della striscia $\mathbf{i_{esima}}$ rispetto all'orizzontale, $\mathbf{W_i}$ è il peso della striscia $\mathbf{i_{esima}}$, $\mathbf{c_i}$ e $\mathbf{\phi_i}$ sono le caratteristiche del terreno (coesione ed angolo di attrito) lungo la base della striscia ed $\mathbf{u_i}$ è la pressione neutra lungo la base della striscia.

L'espressione del coefficiente di sicurezza di **Janbu semplificato** contiene al secondo membro il termine **m** che è funzione di **F**. Quindi essa viene risolta per successive approssimazioni assumendo un valore iniziale per **F** da inserire nell'espressione di **m** ed iterare finquando il valore calcolato coincide con il valore assunto.
La semplificazione del metodo rispetto al procedimento completo consiste nel trascurare le forze tangenziali di interstriscia.

Descrizione terreno

Simbologia adottata

Nr. Indice del terreno
Descrizione Descrizione terreno
γ Peso di volume del terreno espresso in kN/mc
γ_w Peso di volume saturo del terreno espresso in kN/mc
ϕ Angolo d'attrito interno 'efficace' del terreno espresso in gradi
c Coesione 'efficace' del terreno espressa in kPa
ϕ_u Angolo d'attrito interno 'totale' del terreno espresso gradi
c_u Coesione 'totale' del terreno espressa in kPa

Nr.	Descrizione	γ	γ_w	ϕ'	c'	ϕ_u	c_u
1	Detrito	18.00	21.00	48.00	8.0	0.00	39.2
2	Substrato	26.00	26.00	49.00	160.0	0.00	39.2
3	Rinterri costipati	19.00	20.00	30.00	10.0	0.00	39.2
4	Rinterri non costipati	18.00	19.00	30.00	0.0	0.00	39.2

Profilo del piano campagna

Simbologia e convenzioni di segno adottate

L'ascissa è intesa positiva da sinistra verso destra e l'ordinata positiva verso l'alto.
Nr. Identificativo del punto
X Ascissa del punto del profilo espressa in m
Y Ordinata del punto del profilo espressa in m

Nr.	X [m]	Y [m]
1	0.00	76.36
2	6.83	75.23
3	11.38	74.53
4	14.93	73.98
5	16.62	74.09
6	18.66	74.36
7	20.41	75.23
8	23.06	77.23
9	24.73	79.23
10	27.13	81.23
11	30.92	83.23
12	35.19	85.23
13	35.48	85.39
14	38.92	87.23
15	39.09	87.34
16	39.93	87.83
17	41.92	88.99
18	42.34	89.23
19	44.21	90.47
20	45.36	91.23
21	45.59	91.36
22	46.16	91.67
23	48.17	92.77
24	49.03	93.23

25	50.46	93.93
26	52.05	94.73
27	52.58	94.99
28	53.04	95.23
29	55.69	96.70
30	56.65	97.23
31	57.22	97.59
32	58.82	98.59
33	59.58	99.06
34	59.85	99.23
35	62.15	100.41
36	63.78	101.23
37	64.83	101.73
38	66.62	102.57
39	67.49	102.99
40	68.01	103.23
41	68.12	103.32
42	68.34	103.50
43	68.63	103.75
44	68.75	103.85
45	70.54	104.73
46	71.14	105.23
47	73.06	106.40
48	73.13	106.47
49	73.31	106.66
50	73.53	106.73
51	78.27	107.98
52	79.63	108.30
53	89.45	113.01
54	93.68	114.95
55	100.22	114.91
56	103.77	114.82
57	110.28	117.91
58	114.57	119.88
59	118.00	120.00
60	133.38	120.26
61	133.78	120.26
62	134.49	124.30
63	137.14	124.41
64	137.41	124.42
65	138.50	124.46
66	139.24	129.55
67	139.32	130.14
68	139.45	131.04
69	139.49	131.25
70	141.15	138.98
71	141.53	140.79
72	141.73	140.87
73	141.88	140.94
74	142.26	141.11
75	142.99	141.43

76	146.71	143.07
77	146.76	143.12
78	146.80	143.16
79	146.84	143.19
80	146.86	143.20
81	146.88	143.22
82	146.92	143.23
83	147.88	143.23
84	148.46	143.23
85	150.82	146.21
86	152.22	148.02

Descrizione stratigrafia

Simbologia e convenzioni di segno adottate
Gli strati sono descritti mediante i punti di contorno (in senso antiorario) e l'indice del terreno di cui è costituito

Strato N° **1** costituito da terreno n° 2 (Substrato)

Coordinate dei vertici dello strato n° 1

N°	**X[m]**	**Y[m]**
1	89.65	108.40
2	89.65	106.40
3	89.17	106.23
4	83.85	105.23
5	81.43	103.23
6	78.66	101.23
7	74.43	99.23
8	71.20	97.23
9	65.37	95.23
10	63.09	93.23
11	59.79	91.23
12	56.31	89.23
13	53.87	87.23
14	49.18	85.23
15	47.48	83.23
16	40.66	81.23
17	37.56	79.23
18	35.19	75.90
19	32.02	73.12
20	24.66	70.03
21	19.27	67.70
22	18.16	67.72
23	16.48	68.57
24	11.38	74.53
25	6.83	75.23
26	0.00	76.36
27	0.00	0.00
28	152.22	0.00
29	152.22	148.02

30	150.82	146.21
31	148.46	143.23
32	147.88	143.23
33	146.92	143.23
34	146.88	143.22
35	146.86	143.20
36	146.84	143.19
37	146.80	143.16
38	146.76	143.12
39	146.71	143.07
40	142.99	141.43
41	142.26	141.11
42	141.88	140.94
43	141.73	140.87
44	141.53	140.79
45	141.15	138.98
46	139.49	131.25
47	139.45	131.04
48	139.32	130.14
49	139.24	129.55
50	138.50	124.46
51	137.41	124.42
52	137.14	124.41
53	134.49	124.30
54	133.78	120.26
55	131.80	109.19

Strato N° **2** costituito da terreno n° 1 (Detrito)

Coordinate dei vertici dello strato n° 2

N°	**X[m]**	**Y[m]**
1	73.13	106.47
2	73.06	106.40
3	71.14	105.23
4	70.54	104.73
5	68.75	103.85
6	68.63	103.75
7	68.34	103.50
8	68.12	103.32
9	68.01	103.23
10	67.49	102.99
11	66.62	102.57
12	64.83	101.73
13	63.78	101.23
14	62.15	100.41
15	59.85	99.23
16	59.58	99.06
17	58.82	98.59
18	57.22	97.59
19	56.65	97.23

20	55.69	96.70
21	53.04	95.23
22	52.58	94.99
23	52.05	94.73
24	50.46	93.93
25	49.03	93.23
26	48.17	92.77
27	46.16	91.67
28	45.59	91.36
29	45.36	91.23
30	44.21	90.47
31	42.34	89.23
32	41.92	88.99
33	39.93	87.83
34	39.09	87.34
35	38.92	87.23
36	35.48	85.39
37	35.19	85.23
38	30.92	83.23
39	27.13	81.23
40	24.73	79.23
41	23.06	77.23
42	20.41	75.23
43	18.66	74.36
44	16.62	74.09
45	14.93	73.98
46	11.38	74.53
47	16.48	68.57
48	18.16	67.72
49	19.27	67.70
50	24.66	70.03
51	32.02	73.12
52	35.19	75.90
53	37.56	79.23
54	40.66	81.23
55	47.48	83.23
56	49.18	85.23
57	53.87	87.23
58	56.31	89.23
59	59.79	91.23
60	63.09	93.23
61	65.37	95.23
62	71.20	97.23
63	74.43	99.23
64	78.66	101.23
65	81.43	103.23
66	83.85	105.23
67	89.17	106.23
68	89.65	106.40
69	89.65	108.40
70	85.36	107.22

71	75.24	106.80
72	75.18	106.77
73	73.96	106.60
74	73.43	106.55
75	73.13	106.47

Strato N° **3** costituito da terreno n° 3 (Rinterri costipati)

Coordinate dei vertici dello strato n° 3

N°	**X[m]**	**Y[m]**
1	89.65	108.40
2	101.97	114.00
3	103.77	114.82
4	100.22	114.91
5	93.68	114.95
6	89.45	113.01
7	79.63	108.30
8	78.27	107.98
9	73.53	106.73
10	73.31	106.66
11	73.13	106.47
12	73.13	106.47
13	73.43	106.55
14	73.96	106.60
15	75.18	106.77
16	75.24	106.80
17	85.36	107.22

Strato N° **4** costituito da terreno n° 4 (Rinterri non costipati)

Coordinate dei vertici dello strato n° 4

N°	**X[m]**	**Y[m]**
1	101.97	114.00
2	89.65	108.40
3	131.80	109.19
4	133.78	120.26
5	133.38	120.26
6	118.00	120.00
7	106.00	114.00

Strato N° **5** costituito da terreno n° 3 (Rinterri costipati)

Coordinate dei vertici dello strato n° 5

N°	**X[m]**	**Y[m]**
1	118.00	120.00
2	114.57	119.88
3	110.28	117.91
4	103.77	114.82

5	101.97	114.00
6	106.00	114.00

Descrizione falda

Livello di falda

Nr.	X[m]	Y[m]
1	0.00	76.00
2	16.00	74.00
3	18.60	74.36
4	22.00	76.00
5	32.00	82.00
6	46.00	90.00
7	62.00	100.00
8	78.43	108.17
9	90.46	109.09
10	124.00	112.00
11	152.22	112.00

Risultati analisi

Per l'analisi sono stati utilizzati i seguenti metodi di calcolo :
Metodo di JANBU (J)

Impostazioni analisi
Normativa :
Norme Tecniche sulle Costruzioni 14/01/2008

Coefficienti di partecipazione caso statico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.30	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.50	1.30

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Coefficienti di partecipazione caso sismico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.00	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.00	1.00

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Sisma

Accelerazione al suolo a_g =	1.943 [m/s^2]
Coefficiente di amplificazione per tipo di sottosuolo (Ss)	1.20
Coefficiente di amplificazione topografica (St)	1.04
Coefficiente riduzione (β_s)	0.24
Rapporto intensità sismica verticale/orizzontale	0.50
Coefficiente di intensità sismica orizzontale (percento)	$k_h=(a_g/g*\beta_s*St*S)$ = 5.93
Coefficiente di intensità sismica verticale (percento)	$k_v=0.50 * k_h$ = 2.97
Coefficiente di sicurezza richiesto	1.10

Le superfici sono state analizzate per i casi: [PC] [A2M2]
Sisma verticale: verso il basso - verso l'alto
Analisi condotta in termini di tensioni efficaci
Presenza di falda

Impostazioni delle superfici di rottura

Si considerano delle superfici di rottura circolari generate tramite la seguente maglia dei centri

Origine maglia [m]:	X_0 = 68.00	Y_0 = 104.00
Passo maglia [m]:	dX = 5.00	dY = 5.00
Numero passi :	Nx = 12	Ny = 10
Raggio [m]:	R = 3.00	

Si utilizza un raggio variabile con passo dR=3.00 [m] ed un numero di incrementi pari a 10

Sono state escluse dall'analisi le superfici aventi:
- lunghezza di corda inferiore a 1.00 m
- freccia inferiore a 0.50 m
- volume inferiore a 2.00 mc

Numero di superfici analizzate	1532
Coefficiente di sicurezza minimo	1.287
Superficie con coefficiente di sicurezza minimo	1

Quadro sintetico coefficienti di sicurezza

Metodo	**Nr. superfici**	**FS_{min}**	**S_{min}**	**FS_{max}**	**S_{max}**
JANBU	1532	1.287	1	11.678	1532

Caratteristiche delle superfici analizzate

Simbologia adottata

Le ascisse X sono considerate positive verso monte
Le ordinate Y sono considerate positive verso l'alto

N°	numero d'ordine della superficie cerchio
C_x	ascissa x del centro [m]
C_y	ordinata y del centro [m]
R	raggio del cerchio espresso in m
x_v, y_v	ascissa e ordinata del punto di intersezione con il profilo (valle) espresse in m
x_m, y_m	ascissa e ordinata del punto di intersezione con il profilo (monte) espresse in m
V	volume interessato dalla superficie espresso [cmq]
C_s	coefficiente di sicurezza
caso	caso di calcolo

N°	C_x	C_y	R	x_v	y_v	x_m	y_m	V	C_s	caso
1	108.00	124.00	9.00	105.14	115.47	116.03	119.93	20.75	1.287 (J)	[A2M2]
2	108.00	124.00	9.00	105.14	115.47	116.03	119.93	20.75	1.291 (J)	[A2M2]
3	68.00	124.00	24.00	62.57	100.62	89.30	112.94	106.33	1.353 (J)	[A2M2]
4	108.00	129.00	15.00	103.06	114.84	120.03	120.03	46.24	1.357 (J)	[A2M2]
5	108.00	129.00	15.00	103.06	114.84	120.03	120.03	46.24	1.364 (J)	[A2M2]
6	68.00	124.00	24.00	62.57	100.62	89.30	112.94	106.33	1.393 (J)	[A2M2]
7	68.00	114.00	15.00	61.92	100.29	82.34	109.60	85.87	1.398 (J)	[A2M2]
8	108.00	119.00	6.00	103.69	114.82	113.97	119.60	33.12	1.403 (J)	[A2M2]
9	78.00	134.00	27.00	75.13	107.15	97.11	114.93	48.62	1.406 (J)	[A2M2]
10	108.00	119.00	6.00	103.69	114.82	113.97	119.60	33.12	1.408 (J)	[A2M2]
11	78.00	134.00	27.00	75.13	107.15	97.11	114.93	48.62	1.417 (J)	[A2M2]
12	68.00	119.00	18.00	64.16	101.41	83.74	110.27	58.14	1.424 (J)	[A2M2]
13	103.00	139.00	24.00	104.21	115.03	117.65	119.99	17.56	1.431 (J)	[A2M2]
14	68.00	129.00	27.00	65.63	102.10	89.91	113.22	68.04	1.432 (J)	[A2M2]
15	103.00	139.00	24.00	104.21	115.03	117.65	119.99	17.56	1.442 (J)	[A2M2]
16	68.00	114.00	15.00	61.92	100.29	82.34	109.60	85.87	1.444 (J)	[A2M2]
17	108.00	124.00	12.00	100.17	114.91	119.32	120.02	74.04	1.456 (J)	[A2M2]
18	68.00	109.00	9.00	63.61	101.14	76.89	107.62	42.96	1.456 (J)	[A2M2]
19	68.00	129.00	27.00	65.63	102.10	89.91	113.22	68.04	1.461 (J)	[A2M2]
20	68.00	119.00	18.00	64.16	101.41	83.74	110.27	58.14	1.462 (J)	[A2M2]
21	108.00	124.00	12.00	100.17	114.91	119.32	120.02	74.04	1.468 (J)	[A2M2]
22	68.00	109.00	9.00	63.61	101.14	76.89	107.62	42.96	1.493 (J)	[A2M2]
23	108.00	134.00	18.00	106.41	116.07	119.34	120.02	20.63	1.495 (J)	[A2M2]
24	108.00	134.00	18.00	106.41	116.07	119.34	120.02	20.63	1.496 (J)	[A2M2]
25	83.00	119.00	12.00	78.26	107.98	94.29	114.95	45.82	1.504 (J)	[A2M2]
26	83.00	119.00	12.00	78.26	107.98	94.29	114.95	45.82	1.505 (J)	[A2M2]
27	83.00	129.00	21.00	79.56	108.28	98.58	114.92	51.77	1.508 (J)	[A2M2]
28	68.00	114.00	12.00	65.83	102.20	78.40	108.01	25.86	1.511 (J)	[A2M2]
29	73.00	124.00	21.00	68.36	103.52	91.42	113.91	75.27	1.515 (J)	[A2M2]
30	73.00	134.00	30.00	69.48	104.21	96.16	114.93	84.49	1.517 (J)	[A2M2]
31	83.00	129.00	21.00	79.56	108.28	98.58	114.92	51.77	1.518 (J)	[A2M2]
32	68.00	114.00	12.00	65.83	102.20	78.40	108.01	25.86	1.537 (J)	[A2M2]
33	73.00	134.00	30.00	69.48	104.21	96.16	114.93	84.49	1.540 (J)	[A2M2]

34	73.00	124.00	21.00	68.36	103.52	91.42	113.91	75.27	1.546 (J)	[A2M2]
35	83.00	124.00	15.00	81.29	109.10	94.96	114.94	23.88	1.549 (J)	[A2M2]
36	108.00	139.00	24.00	104.65	115.24	122.77	120.08	42.37	1.560 (J)	[A2M2]
37	108.00	134.00	21.00	99.24	114.92	123.74	120.10	79.97	1.570 (J)	[A2M2]
38	108.00	139.00	24.00	104.65	115.24	122.77	120.08	42.37	1.571 (J)	[A2M2]
39	83.00	124.00	15.00	81.29	109.10	94.96	114.94	23.88	1.573 (J)	[A2M2]
40	108.00	134.00	21.00	99.24	114.92	123.74	120.10	79.97	1.585 (J)	[A2M2]
41	78.00	124.00	18.00	73.28	106.63	93.52	114.87	46.21	1.586 (J)	[A2M2]
42	103.00	134.00	21.00	94.17	114.95	118.66	120.01	54.38	1.592 (J)	[A2M2]
43	78.00	124.00	18.00	73.28	106.63	93.52	114.87	46.21	1.593 (J)	[A2M2]
44	103.00	134.00	21.00	94.17	114.95	118.66	120.01	54.38	1.599 (J)	[A2M2]
45	108.00	124.00	9.00	105.14	115.47	116.03	119.93	20.75	1.609 (J)	[PC]
46	108.00	124.00	9.00	105.14	115.47	116.03	119.93	20.75	1.613 (J)	[PC]
47	73.00	129.00	24.00	70.97	105.09	91.81	114.09	41.45	1.644 (J)	[A2M2]
48	73.00	129.00	24.00	70.97	105.09	91.81	114.09	41.45	1.654 (J)	[A2M2]
49	73.00	114.00	12.00	67.86	103.16	84.52	110.65	58.59	1.655 (J)	[A2M2]
50	68.00	124.00	21.00	67.52	103.01	84.00	110.39	30.17	1.662 (J)	[A2M2]
51	68.00	124.00	21.00	67.52	103.01	84.00	110.39	30.17	1.685 (J)	[A2M2]
52	68.00	124.00	24.00	62.57	100.62	89.30	112.94	106.33	1.691 (J)	[PC]
53	103.00	144.00	30.00	95.55	114.94	121.07	120.05	45.33	1.695 (J)	[A2M2]
54	108.00	129.00	15.00	103.06	114.84	120.03	120.03	46.24	1.696 (J)	[PC]
55	103.00	144.00	30.00	95.55	114.94	121.07	120.05	45.33	1.696 (J)	[A2M2]
56	93.00	139.00	30.00	83.98	110.39	116.16	119.94	121.61	1.696 (J)	[A2M2]
57	73.00	114.00	12.00	67.86	103.16	84.52	110.65	58.59	1.700 (J)	[A2M2]
58	108.00	129.00	15.00	103.06	114.84	120.03	120.03	46.24	1.706 (J)	[PC]
59	93.00	139.00	30.00	83.98	110.39	116.16	119.94	121.61	1.711 (J)	[A2M2]
60	88.00	119.00	9.00	84.58	110.67	96.03	114.94	25.29	1.718 (J)	[A2M2]
61	83.00	114.00	6.00	80.32	108.63	88.86	112.73	15.25	1.719 (J)	[A2M2]
62	78.00	129.00	21.00	78.37	108.00	93.56	114.89	17.64	1.723 (J)	[A2M2]
63	68.00	134.00	30.00	69.10	104.02	89.42	113.00	32.58	1.728 (J)	[A2M2]
64	98.00	139.00	30.00	86.16	111.43	121.26	120.06	167.09	1.728 (J)	[A2M2]
65	108.00	144.00	30.00	100.72	114.90	126.18	120.14	71.20	1.729 (J)	[A2M2]
66	68.00	134.00	30.00	69.10	104.02	89.42	113.00	32.58	1.735 (J)	[A2M2]
67	88.00	119.00	9.00	84.58	110.67	96.03	114.94	25.29	1.738 (J)	[A2M2]
68	68.00	124.00	24.00	62.57	100.62	89.30	112.94	106.33	1.741 (J)	[PC]
69	78.00	119.00	12.00	75.53	107.26	87.95	112.29	14.75	1.742 (J)	[A2M2]
70	108.00	144.00	30.00	100.72	114.90	126.18	120.14	71.20	1.743 (J)	[A2M2]
71	83.00	114.00	6.00	80.32	108.63	88.86	112.73	15.25	1.748 (J)	[A2M2]
72	68.00	114.00	15.00	61.92	100.29	82.34	109.60	85.87	1.748 (J)	[PC]
73	98.00	139.00	30.00	86.16	111.43	121.26	120.06	167.09	1.748 (J)	[A2M2]
74	73.00	119.00	15.00	69.77	104.35	85.87	111.29	35.50	1.751 (J)	[A2M2]
75	108.00	119.00	6.00	103.69	114.82	113.97	119.60	33.12	1.753 (J)	[PC]
76	108.00	129.00	18.00	96.77	114.93	123.64	120.10	122.09	1.754 (J)	[A2M2]
77	78.00	134.00	27.00	75.13	107.15	97.11	114.93	48.62	1.757 (J)	[PC]
78	88.00	124.00	15.00	82.93	109.88	99.93	114.91	51.24	1.759 (J)	[A2M2]
79	108.00	119.00	6.00	103.69	114.82	113.97	119.60	33.12	1.760 (J)	[PC]
80	78.00	129.00	21.00	78.37	108.00	93.56	114.89	17.64	1.761 (J)	[A2M2]
81	88.00	124.00	15.00	82.93	109.88	99.93	114.91	51.24	1.764 (J)	[A2M2]
82	108.00	129.00	18.00	96.77	114.93	123.64	120.10	122.09	1.771 (J)	[A2M2]
83	78.00	134.00	27.00	75.13	107.15	97.11	114.93	48.62	1.771 (J)	[PC]
84	78.00	119.00	12.00	75.53	107.26	87.95	112.29	14.75	1.773 (J)	[A2M2]

85	78.00	119.00	15.00	71.53	105.47	92.24	114.29	75.31	1.773 (J)	[A2M2]
86	73.00	119.00	15.00	69.77	104.35	85.87	111.29	35.50	1.779 (J)	[A2M2]
87	78.00	129.00	24.00	72.01	105.76	97.44	114.93	88.65	1.780 (J)	[A2M2]
88	68.00	119.00	18.00	64.16	101.41	83.74	110.27	58.14	1.780 (J)	[PC]
89	103.00	139.00	27.00	92.18	114.26	122.25	120.07	96.09	1.783 (J)	[A2M2]
90	123.00	139.00	27.00	107.76	116.71	149.44	144.47	393.61	1.786 (J)	[A2M2]
91	103.00	139.00	24.00	104.21	115.03	117.65	119.99	17.56	1.789 (J)	[PC]
92	68.00	129.00	27.00	65.63	102.10	89.91	113.22	68.04	1.789 (J)	[PC]
93	103.00	139.00	27.00	92.18	114.26	122.25	120.07	96.09	1.798 (J)	[A2M2]
94	78.00	129.00	24.00	72.01	105.76	97.44	114.93	88.65	1.799 (J)	[A2M2]
95	78.00	139.00	30.00	81.52	109.21	95.91	114.94	17.37	1.799 (J)	[A2M2]
96	123.00	139.00	30.00	104.67	115.25	151.78	147.45	593.04	1.800 (J)	[A2M2]
97	103.00	139.00	24.00	104.21	115.03	117.65	119.99	17.56	1.803 (J)	[PC]
98	78.00	119.00	15.00	71.53	105.47	92.24	114.29	75.31	1.803 (J)	[A2M2]
99	98.00	134.00	24.00	87.86	112.25	117.48	119.98	112.97	1.804 (J)	[A2M2]
100	68.00	114.00	15.00	61.92	100.29	82.34	109.60	85.87	1.805 (J)	[PC]
101	73.00	109.00	9.00	66.68	102.60	81.99	109.43	75.40	1.808 (J)	[A2M2]
102	103.00	129.00	18.00	92.48	114.40	118.59	120.01	96.08	1.808 (J)	[A2M2]
103	118.00	139.00	30.00	100.12	114.91	147.70	143.23	454.25	1.809 (J)	[A2M2]
104	83.00	139.00	30.00	81.20	109.05	100.86	114.89	46.70	1.810 (J)	[A2M2]
105	108.00	119.00	9.00	99.98	114.91	116.95	119.96	92.96	1.815 (J)	[A2M2]
106	123.00	139.00	27.00	107.76	116.71	149.44	144.47	393.61	1.817 (J)	[A2M2]
107	123.00	139.00	30.00	104.67	115.25	151.78	147.45	593.04	1.819 (J)	[A2M2]
108	98.00	134.00	24.00	87.86	112.25	117.48	119.98	112.97	1.820 (J)	[A2M2]
109	108.00	124.00	12.00	100.17	114.91	119.32	120.02	74.04	1.820 (J)	[PC]
110	68.00	109.00	9.00	63.61	101.14	76.89	107.62	42.96	1.820 (J)	[PC]
111	103.00	129.00	18.00	92.48	114.40	118.59	120.01	96.08	1.823 (J)	[A2M2]
112	83.00	139.00	30.00	81.20	109.05	100.86	114.89	46.70	1.823 (J)	[A2M2]
113	68.00	129.00	27.00	65.63	102.10	89.91	113.22	68.04	1.826 (J)	[PC]
114	83.00	134.00	24.00	83.18	110.00	97.57	114.93	22.60	1.827 (J)	[A2M2]
115	68.00	119.00	18.00	64.16	101.41	83.74	110.27	58.14	1.827 (J)	[PC]
116	108.00	119.00	9.00	99.98	114.91	116.95	119.96	92.96	1.829 (J)	[A2M2]
117	108.00	124.00	12.00	100.17	114.91	119.32	120.02	74.04	1.834 (J)	[PC]
118	78.00	139.00	30.00	81.52	109.21	95.91	114.94	17.37	1.836 (J)	[A2M2]
119	118.00	139.00	30.00	100.12	114.91	147.70	143.23	454.25	1.839 (J)	[A2M2]
120	108.00	139.00	27.00	95.75	114.94	127.34	120.16	122.93	1.846 (J)	[A2M2]
121	103.00	129.00	15.00	97.81	114.92	114.92	119.89	20.86	1.848 (J)	[A2M2]
122	83.00	134.00	24.00	83.18	110.00	97.57	114.93	22.60	1.855 (J)	[A2M2]
123	98.00	139.00	27.00	89.94	113.23	117.15	119.97	64.72	1.864 (J)	[A2M2]
124	108.00	139.00	27.00	95.75	114.94	127.34	120.16	122.93	1.866 (J)	[A2M2]
125	68.00	109.00	9.00	63.61	101.14	76.89	107.62	42.96	1.867 (J)	[PC]
126	108.00	134.00	18.00	106.41	116.07	119.34	120.02	20.63	1.868 (J)	[PC]
127	73.00	109.00	9.00	66.68	102.60	81.99	109.43	75.40	1.868 (J)	[A2M2]
128	108.00	134.00	18.00	106.41	116.07	119.34	120.02	20.63	1.870 (J)	[PC]
129	98.00	139.00	27.00	89.94	113.23	117.15	119.97	64.72	1.874 (J)	[A2M2]
130	103.00	129.00	15.00	97.81	114.92	114.92	119.89	20.86	1.875 (J)	[A2M2]
131	83.00	119.00	12.00	78.26	107.98	94.29	114.95	45.82	1.878 (J)	[PC]
132	83.00	119.00	12.00	78.26	107.98	94.29	114.95	45.82	1.879 (J)	[PC]
133	103.00	124.00	12.00	95.13	114.94	114.21	119.71	48.99	1.884 (J)	[A2M2]
134	83.00	129.00	21.00	79.56	108.28	98.58	114.92	51.77	1.885 (J)	[PC]
135	103.00	134.00	24.00	90.52	113.50	122.55	120.08	148.76	1.886 (J)	[A2M2]

136	103.00	124.00	12.00	95.13	114.94	114.21	119.71	48.99	1.889 (J)	[A2M2]
137	68.00	114.00	12.00	65.83	102.20	78.40	108.01	25.86	1.889 (J)	[PC]
138	73.00	124.00	21.00	68.36	103.52	91.42	113.91	75.27	1.893 (J)	[PC]
139	73.00	134.00	30.00	69.48	104.21	96.16	114.93	84.49	1.895 (J)	[PC]
140	103.00	139.00	30.00	88.68	112.64	126.33	120.14	207.24	1.897 (J)	[A2M2]
141	83.00	129.00	21.00	79.56	108.28	98.58	114.92	51.77	1.897 (J)	[PC]
142	123.00	139.00	24.00	110.98	118.23	146.66	143.05	218.55	1.898 (J)	[A2M2]
143	108.00	124.00	15.00	96.05	114.94	122.48	120.08	158.87	1.901 (J)	[A2M2]
144	103.00	134.00	24.00	90.52	113.50	122.55	120.08	148.76	1.907 (J)	[A2M2]
145	68.00	114.00	12.00	65.83	102.20	78.40	108.01	25.86	1.921 (J)	[PC]
146	88.00	139.00	30.00	82.25	109.56	108.43	117.03	76.79	1.922 (J)	[A2M2]
147	103.00	139.00	30.00	88.68	112.64	126.33	120.14	207.24	1.923 (J)	[A2M2]
148	73.00	134.00	30.00	69.48	104.21	96.16	114.93	84.49	1.924 (J)	[PC]
149	113.00	124.00	9.00	107.73	116.70	121.09	120.05	40.48	1.924 (J)	[A2M2]
150	108.00	124.00	15.00	96.05	114.94	122.48	120.08	158.87	1.924 (J)	[A2M2]
151	88.00	139.00	30.00	82.25	109.56	108.43	117.03	76.79	1.929 (J)	[A2M2]
152	73.00	124.00	21.00	68.36	103.52	91.42	113.91	75.27	1.932 (J)	[PC]
153	83.00	124.00	15.00	81.29	109.10	94.96	114.94	23.88	1.936 (J)	[PC]
154	113.00	124.00	9.00	107.73	116.70	121.09	120.05	40.48	1.942 (J)	[A2M2]
155	123.00	134.00	24.00	106.82	116.27	145.44	142.51	389.51	1.947 (J)	[A2M2]
156	123.00	139.00	24.00	110.98	118.23	146.66	143.05	218.55	1.947 (J)	[A2M2]
157	108.00	139.00	24.00	104.65	115.24	122.77	120.08	42.37	1.950 (J)	[PC]
158	108.00	144.00	27.00	108.37	117.00	120.45	120.04	14.15	1.956 (J)	[A2M2]
159	108.00	144.00	27.00	108.37	117.00	120.45	120.04	14.15	1.960 (J)	[A2M2]
160	108.00	134.00	21.00	99.24	114.92	123.74	120.10	79.97	1.963 (J)	[PC]
161	108.00	139.00	24.00	104.65	115.24	122.77	120.08	42.37	1.964 (J)	[PC]
162	83.00	124.00	15.00	81.29	109.10	94.96	114.94	23.88	1.967 (J)	[PC]
163	123.00	134.00	24.00	106.82	116.27	145.44	142.51	389.51	1.967 (J)	[A2M2]
164	108.00	134.00	21.00	99.24	114.92	123.74	120.10	79.97	1.981 (J)	[PC]
165	113.00	129.00	15.00	105.86	115.81	125.09	120.12	70.41	1.982 (J)	[A2M2]
166	78.00	124.00	18.00	73.28	106.63	93.52	114.87	46.21	1.983 (J)	[PC]
167	103.00	134.00	21.00	94.17	114.95	118.66	120.01	54.38	1.990 (J)	[PC]
168	78.00	124.00	18.00	73.28	106.63	93.52	114.87	46.21	1.992 (J)	[PC]
169	73.00	109.00	6.00	69.42	104.18	78.94	108.14	25.07	1.994 (J)	[A2M2]
170	103.00	134.00	21.00	94.17	114.95	118.66	120.01	54.38	1.999 (J)	[PC]
171	103.00	124.00	15.00	91.76	114.07	117.45	119.98	132.28	2.002 (J)	[A2M2]
172	113.00	129.00	15.00	105.86	115.81	125.09	120.12	70.41	2.005 (J)	[A2M2]
173	68.00	109.00	6.00	67.55	103.02	73.56	106.74	5.40	2.010 (J)	[A2M2]
174	108.00	134.00	24.00	93.51	114.87	127.61	120.16	178.43	2.012 (J)	[A2M2]
175	68.00	109.00	12.00	60.55	99.59	79.99	108.47	108.17	2.014 (J)	[A2M2]
176	68.00	104.00	6.00	62.92	100.80	73.37	106.68	48.34	2.021 (J)	[A2M2]
177	103.00	124.00	15.00	91.76	114.07	117.45	119.98	132.28	2.024 (J)	[A2M2]
178	113.00	124.00	12.00	104.75	115.29	124.35	120.11	99.74	2.029 (J)	[A2M2]
179	78.00	114.00	9.00	73.10	106.45	86.70	111.69	33.85	2.031 (J)	[A2M2]
180	68.00	109.00	6.00	67.55	103.02	73.56	106.74	5.40	2.033 (J)	[A2M2]
181	113.00	134.00	21.00	104.10	114.98	128.81	120.18	106.27	2.034 (J)	[A2M2]
182	73.00	109.00	6.00	69.42	104.18	78.94	108.14	25.07	2.036 (J)	[A2M2]
183	108.00	134.00	24.00	93.51	114.87	127.61	120.16	178.43	2.038 (J)	[A2M2]
184	113.00	129.00	18.00	101.85	114.87	128.69	120.18	148.19	2.040 (J)	[A2M2]
185	68.00	109.00	12.00	60.55	99.59	79.99	108.47	108.17	2.045 (J)	[A2M2]
186	113.00	124.00	12.00	104.75	115.29	124.35	120.11	99.74	2.053 (J)	[A2M2]

187	73.00	129.00	24.00	70.97	105.09	91.81	114.09	41.45	2.055 (J)	[PC]
188	78.00	114.00	9.00	73.10	106.45	86.70	111.69	33.85	2.060 (J)	[A2M2]
189	113.00	134.00	21.00	104.10	114.98	128.81	120.18	106.27	2.062 (J)	[A2M2]
190	113.00	129.00	18.00	101.85	114.87	128.69	120.18	148.19	2.067 (J)	[A2M2]
191	73.00	129.00	24.00	70.97	105.09	91.81	114.09	41.45	2.067 (J)	[PC]
192	73.00	114.00	12.00	67.86	103.16	84.52	110.65	58.59	2.069 (J)	[PC]
193	68.00	124.00	21.00	67.52	103.01	84.00	110.39	30.17	2.078 (J)	[PC]
194	113.00	129.00	12.00	109.48	117.53	120.99	120.05	19.53	2.082 (J)	[A2M2]
195	113.00	124.00	15.00	101.08	114.89	127.50	120.16	184.91	2.090 (J)	[A2M2]
196	68.00	104.00	6.00	62.92	100.80	73.37	106.68	48.34	2.095 (J)	[A2M2]
197	108.00	139.00	30.00	91.50	113.95	131.40	120.23	241.70	2.096 (J)	[A2M2]
198	113.00	129.00	12.00	109.48	117.53	120.99	120.05	19.53	2.097 (J)	[A2M2]
199	73.00	119.00	18.00	66.16	102.35	90.07	113.30	107.85	2.104 (J)	[A2M2]
200	68.00	124.00	21.00	67.52	103.01	84.00	110.39	30.17	2.106 (J)	[PC]
201	113.00	134.00	18.00	107.84	116.75	124.45	120.11	39.08	2.110 (J)	[A2M2]
202	123.00	144.00	27.00	112.72	119.03	149.98	145.14	198.16	2.111 (J)	[A2M2]
203	113.00	139.00	27.00	100.84	114.89	132.42	120.24	149.33	2.113 (J)	[A2M2]
204	73.00	119.00	18.00	66.16	102.35	90.07	113.30	107.85	2.118 (J)	[A2M2]
205	103.00	144.00	30.00	95.55	114.94	121.07	120.05	45.33	2.118 (J)	[PC]
206	103.00	144.00	30.00	95.55	114.94	121.07	120.05	45.33	2.120 (J)	[PC]
207	93.00	139.00	30.00	83.98	110.39	116.16	119.94	121.61	2.120 (J)	[PC]
208	113.00	124.00	15.00	101.08	114.89	127.50	120.16	184.91	2.124 (J)	[A2M2]
209	73.00	114.00	12.00	67.86	103.16	84.52	110.65	58.59	2.125 (J)	[PC]
210	108.00	139.00	30.00	91.50	113.95	131.40	120.23	241.70	2.131 (J)	[A2M2]
211	118.00	139.00	27.00	104.93	115.37	144.81	142.23	260.53	2.133 (J)	[A2M2]
212	113.00	134.00	18.00	107.84	116.75	124.45	120.11	39.08	2.134 (J)	[A2M2]
213	93.00	139.00	30.00	83.98	110.39	116.16	119.94	121.61	2.138 (J)	[PC]
214	88.00	114.00	6.00	83.42	110.12	93.92	114.95	38.08	2.140 (J)	[A2M2]
215	113.00	139.00	24.00	106.21	115.98	127.88	120.17	65.06	2.141 (J)	[A2M2]
216	113.00	139.00	27.00	100.84	114.89	132.42	120.24	149.33	2.144 (J)	[A2M2]
217	88.00	119.00	9.00	84.58	110.67	96.03	114.94	25.29	2.147 (J)	[PC]
218	68.00	104.00	3.00	65.66	102.12	70.84	104.98	10.48	2.148 (J)	[A2M2]
219	83.00	114.00	6.00	80.32	108.63	88.86	112.73	15.25	2.148 (J)	[PC]
220	88.00	134.00	24.00	83.91	110.35	102.47	114.85	46.46	2.150 (J)	[A2M2]
221	88.00	129.00	18.00	85.60	111.16	99.21	114.92	24.44	2.153 (J)	[A2M2]
222	88.00	114.00	6.00	83.42	110.12	93.92	114.95	38.08	2.153 (J)	[A2M2]
223	78.00	129.00	21.00	78.37	108.00	93.56	114.89	17.64	2.154 (J)	[PC]
224	88.00	134.00	24.00	83.91	110.35	102.47	114.85	46.46	2.158 (J)	[A2M2]
225	68.00	134.00	30.00	69.10	104.02	89.42	113.00	32.58	2.159 (J)	[PC]
226	98.00	139.00	30.00	86.16	111.43	121.26	120.06	167.09	2.160 (J)	[PC]
227	113.00	134.00	24.00	98.44	114.92	132.67	120.25	204.75	2.160 (J)	[A2M2]
228	108.00	144.00	30.00	100.72	114.90	126.18	120.14	71.20	2.161 (J)	[PC]
229	68.00	134.00	30.00	69.10	104.02	89.42	113.00	32.58	2.168 (J)	[PC]
230	113.00	144.00	30.00	104.58	115.21	131.30	120.22	97.47	2.168 (J)	[A2M2]
231	113.00	139.00	24.00	106.21	115.98	127.88	120.17	65.06	2.170 (J)	[A2M2]
232	88.00	119.00	9.00	84.58	110.67	96.03	114.94	25.29	2.173 (J)	[PC]
233	88.00	129.00	18.00	85.60	111.16	99.21	114.92	24.44	2.176 (J)	[A2M2]
234	78.00	119.00	12.00	75.53	107.26	87.95	112.29	14.75	2.178 (J)	[PC]
235	108.00	144.00	30.00	100.72	114.90	126.18	120.14	71.20	2.179 (J)	[PC]
236	123.00	144.00	27.00	112.72	119.03	149.98	145.14	198.16	2.184 (J)	[A2M2]
237	83.00	114.00	6.00	80.32	108.63	88.86	112.73	15.25	2.184 (J)	[PC]

238	98.00	139.00	30.00	86.16	111.43	121.26	120.06	167.09	2.185 (J)	[PC]
239	73.00	119.00	15.00	69.77	104.35	85.87	111.29	35.50	2.189 (J)	[PC]
240	118.00	139.00	27.00	104.93	115.37	144.81	142.23	260.53	2.190 (J)	[A2M2]
241	73.00	129.00	27.00	66.89	102.70	96.05	114.94	128.56	2.191 (J)	[A2M2]
242	73.00	129.00	27.00	66.89	102.70	96.05	114.94	128.56	2.191 (J)	[A2M2]
243	68.00	104.00	3.00	65.66	102.12	70.84	104.98	10.48	2.192 (J)	[A2M2]
244	108.00	129.00	18.00	96.77	114.93	123.64	120.10	122.09	2.192 (J)	[PC]
245	113.00	134.00	24.00	98.44	114.92	132.67	120.25	204.75	2.195 (J)	[A2M2]
246	88.00	124.00	15.00	82.93	109.88	99.93	114.91	51.24	2.198 (J)	[PC]
247	113.00	144.00	30.00	104.58	115.21	131.30	120.22	97.47	2.200 (J)	[A2M2]
248	78.00	129.00	21.00	78.37	108.00	93.56	114.89	17.64	2.202 (J)	[PC]
249	93.00	134.00	24.00	85.61	111.17	111.17	118.32	73.69	2.203 (J)	[A2M2]
250	123.00	134.00	21.00	109.79	117.68	142.69	141.30	216.83	2.204 (J)	[A2M2]
251	88.00	124.00	15.00	82.93	109.88	99.93	114.91	51.24	2.205 (J)	[PC]
252	108.00	129.00	18.00	96.77	114.93	123.64	120.10	122.09	2.214 (J)	[PC]
253	93.00	134.00	24.00	85.61	111.17	111.17	118.32	73.69	2.214 (J)	[A2M2]
254	78.00	119.00	15.00	71.53	105.47	92.24	114.29	75.31	2.216 (J)	[PC]
255	78.00	119.00	12.00	75.53	107.26	87.95	112.29	14.75	2.216 (J)	[PC]
256	73.00	119.00	15.00	69.77	104.35	85.87	111.29	35.50	2.223 (J)	[PC]
257	83.00	124.00	18.00	76.05	107.40	98.54	114.92	85.77	2.224 (J)	[A2M2]
258	78.00	129.00	24.00	72.01	105.76	97.44	114.93	88.65	2.224 (J)	[PC]
259	83.00	124.00	18.00	76.05	107.40	98.54	114.92	85.77	2.226 (J)	[A2M2]
260	103.00	139.00	27.00	92.18	114.26	122.25	120.07	96.09	2.228 (J)	[PC]
261	123.00	139.00	27.00	107.76	116.71	149.44	144.47	393.61	2.232 (J)	[PC]
262	68.00	119.00	15.00	69.14	104.04	78.14	107.95	8.68	2.233 (J)	[A2M2]
263	88.00	124.00	12.00	87.38	112.02	95.86	114.94	8.57	2.242 (J)	[A2M2]
264	123.00	134.00	21.00	109.79	117.68	142.69	141.30	216.83	2.243 (J)	[A2M2]
265	68.00	119.00	15.00	69.14	104.04	78.14	107.95	8.68	2.245 (J)	[A2M2]
266	103.00	139.00	27.00	92.18	114.26	122.25	120.07	96.09	2.247 (J)	[PC]
267	78.00	129.00	24.00	72.01	105.76	97.44	114.93	88.65	2.248 (J)	[PC]
268	123.00	139.00	30.00	104.67	115.25	151.78	147.45	593.04	2.249 (J)	[PC]
269	78.00	139.00	30.00	81.52	109.21	95.91	114.94	17.37	2.249 (J)	[PC]
270	78.00	119.00	15.00	71.53	105.47	92.24	114.29	75.31	2.253 (J)	[PC]
271	83.00	134.00	27.00	77.06	107.66	102.05	114.86	86.15	2.254 (J)	[A2M2]
272	83.00	134.00	27.00	77.06	107.66	102.05	114.86	86.15	2.254 (J)	[A2M2]
273	98.00	134.00	24.00	87.86	112.25	117.48	119.98	112.97	2.255 (J)	[PC]
274	73.00	109.00	9.00	66.68	102.60	81.99	109.43	75.40	2.259 (J)	[PC]
275	103.00	129.00	18.00	92.48	114.40	118.59	120.01	96.08	2.260 (J)	[PC]
276	118.00	139.00	30.00	100.12	114.91	147.70	143.23	454.25	2.260 (J)	[PC]
277	83.00	139.00	30.00	81.20	109.05	100.86	114.89	46.70	2.262 (J)	[PC]
278	108.00	119.00	9.00	99.98	114.91	116.95	119.96	92.96	2.269 (J)	[PC]
279	123.00	139.00	27.00	107.76	116.71	149.44	144.47	393.61	2.270 (J)	[PC]
280	123.00	139.00	30.00	104.67	115.25	151.78	147.45	593.04	2.273 (J)	[PC]
281	68.00	129.00	30.00	61.01	99.83	94.50	114.94	170.25	2.273 (J)	[A2M2]
282	98.00	134.00	24.00	87.86	112.25	117.48	119.98	112.97	2.275 (J)	[PC]
283	103.00	129.00	18.00	92.48	114.40	118.59	120.01	96.08	2.279 (J)	[PC]
284	68.00	129.00	30.00	61.01	99.83	94.50	114.94	170.25	2.279 (J)	[A2M2]
285	83.00	139.00	30.00	81.20	109.05	100.86	114.89	46.70	2.279 (J)	[PC]
286	83.00	134.00	24.00	83.18	110.00	97.57	114.93	22.60	2.284 (J)	[PC]
287	108.00	119.00	9.00	99.98	114.91	116.95	119.96	92.96	2.287 (J)	[PC]
288	88.00	124.00	12.00	87.38	112.02	95.86	114.94	8.57	2.291 (J)	[A2M2]

289	78.00	139.00	30.00	81.52	109.21	95.91	114.94	17.37	2.295 (J)	[PC]
290	118.00	139.00	30.00	100.12	114.91	147.70	143.23	454.25	2.298 (J)	[PC]
291	108.00	139.00	27.00	95.75	114.94	127.34	120.16	122.93	2.308 (J)	[PC]
292	118.00	144.00	30.00	106.70	116.21	147.99	143.23	234.17	2.310 (J)	[A2M2]
293	103.00	129.00	15.00	97.81	114.92	114.92	119.89	20.86	2.311 (J)	[PC]
294	83.00	134.00	24.00	83.18	110.00	97.57	114.93	22.60	2.318 (J)	[PC]
295	98.00	139.00	27.00	89.94	113.23	117.15	119.97	64.72	2.331 (J)	[PC]
296	108.00	139.00	27.00	95.75	114.94	127.34	120.16	122.93	2.333 (J)	[PC]
297	73.00	109.00	9.00	66.68	102.60	81.99	109.43	75.40	2.335 (J)	[PC]
298	98.00	139.00	27.00	89.94	113.23	117.15	119.97	64.72	2.343 (J)	[PC]
299	103.00	129.00	15.00	97.81	114.92	114.92	119.89	20.86	2.344 (J)	[PC]
300	98.00	129.00	18.00	89.60	113.08	113.10	119.21	65.41	2.353 (J)	[A2M2]
301	103.00	124.00	12.00	95.13	114.94	114.21	119.71	48.99	2.355 (J)	[PC]
302	103.00	134.00	24.00	90.52	113.50	122.55	120.08	148.76	2.358 (J)	[PC]
303	103.00	124.00	12.00	95.13	114.94	114.21	119.71	48.99	2.361 (J)	[PC]
304	98.00	129.00	18.00	89.60	113.08	113.10	119.21	65.41	2.368 (J)	[A2M2]
305	103.00	139.00	30.00	88.68	112.64	126.33	120.14	207.24	2.371 (J)	[PC]
306	123.00	139.00	24.00	110.98	118.23	146.66	143.05	218.55	2.373 (J)	[PC]
307	108.00	124.00	15.00	96.05	114.94	122.48	120.08	158.87	2.376 (J)	[PC]
308	103.00	134.00	24.00	90.52	113.50	122.55	120.08	148.76	2.384 (J)	[PC]
309	73.00	134.00	27.00	74.78	107.06	90.63	113.55	10.25	2.385 (J)	[A2M2]
310	118.00	144.00	30.00	106.70	116.21	147.99	143.23	234.17	2.392 (J)	[A2M2]
311	113.00	124.00	6.00	111.13	118.30	117.46	119.98	6.41	2.393 (J)	[A2M2]
312	98.00	124.00	15.00	88.38	112.49	112.04	118.72	100.60	2.394 (J)	[A2M2]
313	93.00	124.00	15.00	85.40	111.07	105.43	115.61	73.67	2.395 (J)	[A2M2]
314	88.00	139.00	30.00	82.25	109.56	108.43	117.03	76.79	2.402 (J)	[PC]
315	103.00	139.00	30.00	88.68	112.64	126.33	120.14	207.24	2.404 (J)	[PC]
316	113.00	124.00	9.00	107.73	116.70	121.09	120.05	40.48	2.405 (J)	[PC]
317	108.00	124.00	15.00	96.05	114.94	122.48	120.08	158.87	2.406 (J)	[PC]
318	73.00	114.00	9.00	71.11	105.20	80.17	108.56	11.76	2.406 (J)	[A2M2]
319	88.00	139.00	30.00	82.25	109.56	108.43	117.03	76.79	2.411 (J)	[PC]
320	108.00	129.00	12.00	108.38	117.01	115.85	119.92	5.47	2.415 (J)	[A2M2]
321	113.00	124.00	6.00	111.13	118.30	117.46	119.98	6.41	2.418 (J)	[A2M2]
322	93.00	124.00	15.00	85.40	111.07	105.43	115.61	73.67	2.419 (J)	[A2M2]
323	73.00	114.00	9.00	71.11	105.20	80.17	108.56	11.76	2.420 (J)	[A2M2]
324	98.00	124.00	15.00	88.38	112.49	112.04	118.72	100.60	2.421 (J)	[A2M2]
325	113.00	124.00	9.00	107.73	116.70	121.09	120.05	40.48	2.428 (J)	[PC]
326	123.00	134.00	24.00	106.82	116.27	145.44	142.51	389.51	2.433 (J)	[PC]
327	123.00	139.00	24.00	110.98	118.23	146.66	143.05	218.55	2.434 (J)	[PC]
328	123.00	149.00	27.00	138.89	127.17	149.66	144.75	77.52	2.444 (J)	[A2M2]
329	108.00	144.00	27.00	108.37	117.00	120.45	120.04	14.15	2.445 (J)	[PC]
330	108.00	144.00	27.00	108.37	117.00	120.45	120.04	14.15	2.450 (J)	[PC]
331	73.00	124.00	18.00	72.42	106.01	85.64	111.18	11.79	2.450 (J)	[A2M2]
332	113.00	144.00	27.00	108.99	117.30	125.62	120.13	29.06	2.454 (J)	[A2M2]
333	88.00	114.00	3.00	86.33	111.51	90.99	113.71	5.37	2.455 (J)	[A2M2]
334	73.00	134.00	27.00	74.78	107.06	90.63	113.55	10.25	2.456 (J)	[A2M2]
335	123.00	134.00	24.00	106.82	116.27	145.44	142.51	389.51	2.458 (J)	[PC]
336	73.00	124.00	18.00	72.42	106.01	85.64	111.18	11.79	2.477 (J)	[A2M2]
337	113.00	129.00	15.00	105.86	115.81	125.09	120.12	70.41	2.477 (J)	[PC]
338	113.00	144.00	27.00	108.99	117.30	125.62	120.13	29.06	2.482 (J)	[A2M2]
339	108.00	129.00	12.00	108.38	117.01	115.85	119.92	5.47	2.483 (J)	[A2M2]

340	68.00	119.00	21.00	60.30	99.46	87.89	112.26	143.70	2.488 (J)	[A2M2]
341	73.00	109.00	6.00	69.42	104.18	78.94	108.14	25.07	2.493 (J)	[PC]
342	68.00	119.00	21.00	60.30	99.46	87.89	112.26	143.70	2.498 (J)	[A2M2]
343	103.00	124.00	15.00	91.76	114.07	117.45	119.98	132.28	2.503 (J)	[PC]
344	123.00	134.00	27.00	103.92	114.89	148.37	143.23	593.59	2.504 (J)	[A2M2]
345	113.00	129.00	15.00	105.86	115.81	125.09	120.12	70.41	2.507 (J)	[PC]
346	68.00	109.00	6.00	67.55	103.02	73.56	106.74	5.40	2.513 (J)	[PC]
347	108.00	134.00	24.00	93.51	114.87	127.61	120.16	178.43	2.515 (J)	[PC]
348	68.00	109.00	12.00	60.55	99.59	79.99	108.47	108.17	2.517 (J)	[PC]
349	88.00	114.00	3.00	86.33	111.51	90.99	113.71	5.37	2.520 (J)	[A2M2]
350	68.00	104.00	6.00	62.92	100.80	73.37	106.68	48.34	2.526 (J)	[PC]
351	123.00	134.00	27.00	103.92	114.89	148.37	143.23	593.59	2.529 (J)	[A2M2]
352	103.00	124.00	15.00	91.76	114.07	117.45	119.98	132.28	2.530 (J)	[PC]
353	113.00	124.00	12.00	104.75	115.29	124.35	120.11	99.74	2.536 (J)	[PC]
354	83.00	129.00	18.00	85.68	111.20	94.25	114.95	5.10	2.536 (J)	[A2M2]
355	83.00	119.00	9.00	83.18	110.00	89.89	113.21	4.05	2.537 (J)	[A2M2]
356	78.00	114.00	9.00	73.10	106.45	86.70	111.69	33.85	2.538 (J)	[PC]
357	68.00	109.00	6.00	67.55	103.02	73.56	106.74	5.40	2.541 (J)	[PC]
358	113.00	134.00	21.00	104.10	114.98	128.81	120.18	106.27	2.543 (J)	[PC]
359	73.00	109.00	6.00	69.42	104.18	78.94	108.14	25.07	2.545 (J)	[PC]
360	108.00	134.00	24.00	93.51	114.87	127.61	120.16	178.43	2.547 (J)	[PC]
361	113.00	129.00	18.00	101.85	114.87	128.69	120.18	148.19	2.550 (J)	[PC]
362	123.00	149.00	27.00	138.89	127.17	149.66	144.75	77.52	2.551 (J)	[A2M2]
363	68.00	109.00	12.00	60.55	99.59	79.99	108.47	108.17	2.556 (J)	[PC]
364	68.00	119.00	30.00	51.07	94.24	97.72	114.93	574.97	2.559 (J)	[A2M2]
365	68.00	119.00	30.00	51.07	94.24	97.72	114.93	574.97	2.562 (J)	[A2M2]
366	68.00	124.00	27.00	58.84	98.60	93.39	114.82	217.55	2.563 (J)	[A2M2]
367	113.00	124.00	12.00	104.75	115.29	124.35	120.11	99.74	2.566 (J)	[PC]
368	93.00	119.00	9.00	87.34	112.00	101.01	114.89	43.32	2.568 (J)	[A2M2]
369	78.00	114.00	9.00	73.10	106.45	86.70	111.69	33.85	2.575 (J)	[PC]
370	118.00	134.00	24.00	103.57	114.83	141.31	139.73	272.00	2.575 (J)	[A2M2]
371	113.00	134.00	21.00	104.10	114.98	128.81	120.18	106.27	2.577 (J)	[PC]
372	68.00	124.00	27.00	58.84	98.60	93.39	114.82	217.55	2.579 (J)	[A2M2]
373	93.00	119.00	9.00	87.34	112.00	101.01	114.89	43.32	2.580 (J)	[A2M2]
374	113.00	129.00	18.00	101.85	114.87	128.69	120.18	148.19	2.584 (J)	[PC]
375	113.00	129.00	12.00	109.48	117.53	120.99	120.05	19.53	2.603 (J)	[PC]
376	113.00	124.00	15.00	101.08	114.89	127.50	120.16	184.91	2.613 (J)	[PC]
377	83.00	129.00	18.00	85.68	111.20	94.25	114.95	5.10	2.617 (J)	[A2M2]
378	68.00	104.00	6.00	62.92	100.80	73.37	106.68	48.34	2.619 (J)	[PC]
379	68.00	124.00	30.00	55.63	96.67	96.60	114.93	356.35	2.619 (J)	[A2M2]
380	108.00	139.00	30.00	91.50	113.95	131.40	120.23	241.70	2.620 (J)	[PC]
381	118.00	134.00	24.00	103.57	114.83	141.31	139.73	272.00	2.621 (J)	[A2M2]
382	83.00	119.00	9.00	83.18	110.00	89.89	113.21	4.05	2.621 (J)	[A2M2]
383	113.00	129.00	12.00	109.48	117.53	120.99	120.05	19.53	2.621 (J)	[PC]
384	68.00	119.00	27.00	54.13	95.83	94.69	114.94	405.57	2.628 (J)	[A2M2]
385	73.00	119.00	18.00	66.16	102.35	90.07	113.30	107.85	2.630 (J)	[PC]
386	68.00	114.00	30.00	47.29	92.29	97.99	114.92	817.05	2.631 (J)	[A2M2]
387	68.00	124.00	30.00	55.63	96.67	96.60	114.93	356.35	2.632 (J)	[A2M2]
388	68.00	119.00	27.00	54.13	95.83	94.69	114.94	405.57	2.637 (J)	[A2M2]
389	113.00	134.00	18.00	107.84	116.75	124.45	120.11	39.08	2.637 (J)	[PC]
390	108.00	119.00	3.00	106.79	116.25	110.89	118.19	3.25	2.639 (J)	[A2M2]

391	123.00	144.00	27.00	112.72	119.03	149.98	145.14	198.16	2.639 (J)	[PC]
392	113.00	139.00	30.00	95.08	114.94	142.90	141.39	317.97	2.639 (J)	[A2M2]
393	113.00	139.00	27.00	100.84	114.89	132.42	120.24	149.33	2.641 (J)	[PC]
394	68.00	114.00	30.00	47.29	92.29	97.99	114.92	817.05	2.644 (J)	[A2M2]
395	73.00	119.00	18.00	66.16	102.35	90.07	113.30	107.85	2.647 (J)	[PC]
396	88.00	129.00	21.00	81.30	109.10	103.50	114.83	82.85	2.653 (J)	[A2M2]
397	113.00	124.00	15.00	101.08	114.89	127.50	120.16	184.91	2.655 (J)	[PC]
398	108.00	139.00	30.00	91.50	113.95	131.40	120.23	241.70	2.664 (J)	[PC]
399	103.00	119.00	9.00	94.97	114.94	111.99	118.70	69.46	2.664 (J)	[A2M2]
400	88.00	129.00	21.00	81.30	109.10	103.50	114.83	82.85	2.666 (J)	[A2M2]
401	68.00	109.00	30.00	44.34	90.56	97.41	114.93	1072.89	2.666 (J)	[A2M2]
402	118.00	139.00	27.00	104.93	115.37	144.81	142.23	260.53	2.666 (J)	[PC]
403	113.00	134.00	18.00	107.84	116.75	124.45	120.11	39.08	2.667 (J)	[PC]
404	88.00	114.00	6.00	83.42	110.12	93.92	114.95	38.08	2.674 (J)	[PC]
405	113.00	139.00	24.00	106.21	115.98	127.88	120.17	65.06	2.677 (J)	[PC]
406	113.00	139.00	27.00	100.84	114.89	132.42	120.24	149.33	2.680 (J)	[PC]
407	68.00	109.00	27.00	46.94	92.10	94.34	114.95	844.92	2.681 (J)	[A2M2]
408	103.00	119.00	9.00	94.97	114.94	111.99	118.70	69.46	2.681 (J)	[A2M2]
409	68.00	114.00	27.00	50.12	93.77	94.98	114.94	617.55	2.683 (J)	[A2M2]
410	123.00	134.00	30.00	99.86	114.91	150.55	145.87	811.75	2.684 (J)	[A2M2]
411	68.00	104.00	3.00	65.66	102.12	70.84	104.98	10.48	2.685 (J)	[PC]
412	68.00	114.00	27.00	50.12	93.77	94.98	114.94	617.55	2.687 (J)	[A2M2]
413	88.00	134.00	24.00	83.91	110.35	102.47	114.85	46.46	2.687 (J)	[PC]
414	88.00	114.00	6.00	83.42	110.12	93.92	114.95	38.08	2.690 (J)	[PC]
415	88.00	129.00	18.00	85.60	111.16	99.21	114.92	24.44	2.692 (J)	[PC]
416	88.00	134.00	24.00	83.91	110.35	102.47	114.85	46.46	2.698 (J)	[PC]
417	123.00	134.00	30.00	99.86	114.91	150.55	145.87	811.75	2.699 (J)	[A2M2]
418	68.00	109.00	30.00	44.34	90.56	97.41	114.93	1072.89	2.700 (J)	[A2M2]
419	113.00	134.00	24.00	98.44	114.92	132.67	120.25	204.75	2.701 (J)	[PC]
420	113.00	139.00	30.00	95.08	114.94	142.90	141.39	317.97	2.708 (J)	[A2M2]
421	68.00	109.00	27.00	46.94	92.10	94.34	114.95	844.92	2.710 (J)	[A2M2]
422	113.00	144.00	30.00	104.58	115.21	131.30	120.22	97.47	2.710 (J)	[PC]
423	68.00	119.00	24.00	57.19	97.57	91.46	113.93	260.42	2.712 (J)	[A2M2]
424	113.00	139.00	24.00	106.21	115.98	127.88	120.17	65.06	2.713 (J)	[PC]
425	108.00	119.00	3.00	106.79	116.25	110.89	118.19	3.25	2.719 (J)	[A2M2]
426	88.00	129.00	18.00	85.60	111.16	99.21	114.92	24.44	2.720 (J)	[PC]
427	68.00	119.00	24.00	57.19	97.57	91.46	113.93	260.42	2.728 (J)	[A2M2]
428	123.00	144.00	27.00	112.72	119.03	149.98	145.14	198.16	2.730 (J)	[PC]
429	73.00	124.00	24.00	64.48	101.56	95.22	114.94	172.08	2.735 (J)	[A2M2]
430	113.00	139.00	21.00	110.74	118.12	122.09	120.07	12.56	2.736 (J)	[A2M2]
431	118.00	139.00	27.00	104.93	115.37	144.81	142.23	260.53	2.737 (J)	[PC]
432	73.00	129.00	27.00	66.89	102.70	96.05	114.94	128.56	2.739 (J)	[PC]
433	73.00	129.00	27.00	66.89	102.70	96.05	114.94	128.56	2.739 (J)	[PC]
434	68.00	104.00	3.00	65.66	102.12	70.84	104.98	10.48	2.740 (J)	[PC]
435	113.00	134.00	24.00	98.44	114.92	132.67	120.25	204.75	2.744 (J)	[PC]
436	103.00	119.00	6.00	98.60	114.92	108.71	117.17	15.45	2.745 (J)	[A2M2]
437	113.00	144.00	30.00	104.58	115.21	131.30	120.22	97.47	2.750 (J)	[PC]
438	113.00	139.00	21.00	110.74	118.12	122.09	120.07	12.56	2.750 (J)	[A2M2]
439	68.00	109.00	24.00	49.65	93.53	91.49	113.94	643.23	2.750 (J)	[A2M2]
440	93.00	134.00	24.00	85.61	111.17	111.17	118.32	73.69	2.753 (J)	[PC]
441	123.00	134.00	21.00	109.79	117.68	142.69	141.30	216.83	2.754 (J)	[PC]

442	73.00	124.00	24.00	64.48	101.56	95.22	114.94	172.08	2.757 (J)	[A2M2]
443	103.00	119.00	6.00	98.60	114.92	108.71	117.17	15.45	2.761 (J)	[A2M2]
444	93.00	134.00	24.00	85.61	111.17	111.17	118.32	73.69	2.767 (J)	[PC]
445	68.00	109.00	24.00	49.65	93.53	91.49	113.94	643.23	2.772 (J)	[A2M2]
446	83.00	124.00	18.00	76.05	107.40	98.54	114.92	85.77	2.779 (J)	[PC]
447	83.00	124.00	18.00	76.05	107.40	98.54	114.92	85.77	2.781 (J)	[PC]
448	83.00	114.00	9.00	76.71	107.57	92.00	114.18	63.05	2.787 (J)	[A2M2]
449	73.00	124.00	27.00	60.99	99.82	98.43	114.92	296.08	2.790 (J)	[A2M2]
450	68.00	119.00	15.00	69.14	104.04	78.14	107.95	8.68	2.790 (J)	[PC]
451	68.00	114.00	21.00	55.92	96.82	88.96	112.78	295.06	2.796 (J)	[A2M2]
452	83.00	114.00	9.00	76.71	107.57	92.00	114.18	63.05	2.798 (J)	[A2M2]
453	88.00	124.00	12.00	87.38	112.02	95.86	114.94	8.57	2.802 (J)	[PC]
454	123.00	134.00	21.00	109.79	117.68	142.69	141.30	216.83	2.803 (J)	[PC]
455	73.00	124.00	27.00	60.99	99.82	98.43	114.92	296.08	2.804 (J)	[A2M2]
456	68.00	119.00	15.00	69.14	104.04	78.14	107.95	8.68	2.806 (J)	[PC]
457	68.00	114.00	21.00	55.92	96.82	88.96	112.78	295.06	2.807 (J)	[A2M2]
458	73.00	119.00	27.00	56.85	97.36	99.69	114.91	496.47	2.810 (J)	[A2M2]
459	73.00	119.00	27.00	56.85	97.36	99.69	114.91	496.47	2.811 (J)	[A2M2]
460	73.00	119.00	30.00	54.02	95.77	102.71	114.85	674.07	2.814 (J)	[A2M2]
461	83.00	134.00	27.00	77.06	107.66	102.05	114.86	86.15	2.816 (J)	[PC]
462	83.00	134.00	27.00	77.06	107.66	102.05	114.86	86.15	2.816 (J)	[PC]
463	73.00	119.00	30.00	54.02	95.77	102.71	114.85	674.07	2.825 (J)	[A2M2]
464	88.00	139.00	27.00	87.36	112.01	100.19	114.91	16.94	2.832 (J)	[A2M2]
465	73.00	129.00	30.00	62.86	100.77	99.49	114.91	243.31	2.834 (J)	[A2M2]
466	68.00	114.00	24.00	53.04	95.23	92.00	114.18	442.04	2.835 (J)	[A2M2]
467	73.00	124.00	30.00	57.95	98.05	101.58	114.88	444.61	2.838 (J)	[A2M2]
468	68.00	129.00	30.00	61.01	99.83	94.50	114.94	170.25	2.841 (J)	[PC]
469	93.00	129.00	18.00	87.24	111.95	104.54	115.18	41.25	2.841 (J)	[A2M2]
470	73.00	124.00	30.00	57.95	98.05	101.58	114.88	444.61	2.842 (J)	[A2M2]
471	68.00	114.00	24.00	53.04	95.23	92.00	114.18	442.04	2.845 (J)	[A2M2]
472	68.00	129.00	30.00	61.01	99.83	94.50	114.94	170.25	2.848 (J)	[PC]
473	73.00	129.00	30.00	62.86	100.77	99.49	114.91	243.31	2.854 (J)	[A2M2]
474	93.00	129.00	18.00	87.24	111.95	104.54	115.18	41.25	2.857 (J)	[A2M2]
475	73.00	119.00	24.00	59.61	99.08	96.65	114.93	342.05	2.857 (J)	[A2M2]
476	88.00	124.00	12.00	87.38	112.02	95.86	114.94	8.57	2.863 (J)	[PC]
477	88.00	139.00	27.00	87.36	112.01	100.19	114.91	16.94	2.867 (J)	[A2M2]
478	73.00	119.00	24.00	59.61	99.08	96.65	114.93	342.05	2.869 (J)	[A2M2]
479	68.00	104.00	30.00	42.00	89.04	95.94	114.94	1317.95	2.875 (J)	[A2M2]
480	68.00	109.00	21.00	52.42	94.91	88.68	112.64	467.94	2.882 (J)	[A2M2]
481	118.00	144.00	30.00	106.70	116.21	147.99	143.23	234.17	2.888 (J)	[PC]
482	68.00	109.00	21.00	52.42	94.91	88.68	112.64	467.94	2.892 (J)	[A2M2]
483	68.00	114.00	18.00	58.76	98.55	85.79	111.25	175.80	2.894 (J)	[A2M2]
484	78.00	124.00	21.00	70.13	104.53	96.94	114.93	128.76	2.898 (J)	[A2M2]
485	118.00	134.00	30.00	94.83	114.94	146.61	143.03	687.34	2.899 (J)	[A2M2]
486	118.00	134.00	27.00	98.90	114.92	143.85	141.81	462.57	2.901 (J)	[A2M2]
487	73.00	114.00	30.00	50.63	94.01	102.99	114.84	923.53	2.910 (J)	[A2M2]
488	68.00	114.00	18.00	58.76	98.55	85.79	111.25	175.80	2.915 (J)	[A2M2]
489	73.00	114.00	27.00	53.40	95.43	99.98	114.91	718.37	2.918 (J)	[A2M2]
490	78.00	124.00	21.00	70.13	104.53	96.94	114.93	128.76	2.924 (J)	[A2M2]
491	118.00	134.00	30.00	94.83	114.94	146.61	143.03	687.34	2.925 (J)	[A2M2]
492	73.00	114.00	27.00	53.40	95.43	99.98	114.91	718.37	2.930 (J)	[A2M2]

493	73.00	114.00	30.00	50.63	94.01	102.99	114.84	923.53	2.931 (J)	[A2M2]
494	68.00	104.00	30.00	42.00	89.04	95.94	114.94	1317.95	2.939 (J)	[A2M2]
495	118.00	134.00	27.00	98.90	114.92	143.85	141.81	462.57	2.941 (J)	[A2M2]
496	98.00	129.00	18.00	89.60	113.08	113.10	119.21	65.41	2.942 (J)	[PC]
497	73.00	119.00	21.00	62.71	100.69	93.60	114.91	211.00	2.942 (J)	[A2M2]
498	68.00	104.00	27.00	44.52	90.67	92.85	114.57	1060.26	2.949 (J)	[A2M2]
499	73.00	114.00	24.00	56.12	96.94	96.98	114.93	536.06	2.950 (J)	[A2M2]
500	73.00	114.00	24.00	56.12	96.94	96.98	114.93	536.06	2.952 (J)	[A2M2]
501	98.00	129.00	18.00	89.60	113.08	113.10	119.21	65.41	2.960 (J)	[PC]
502	118.00	129.00	18.00	105.79	115.78	133.74	120.26	173.64	2.961 (J)	[A2M2]
503	73.00	109.00	30.00	47.87	92.61	102.42	114.85	1190.96	2.965 (J)	[A2M2]
504	73.00	114.00	15.00	64.56	101.60	87.90	112.27	135.46	2.967 (J)	[A2M2]
505	73.00	119.00	21.00	62.71	100.69	93.60	114.91	211.00	2.968 (J)	[A2M2]
506	78.00	109.00	6.00	72.70	106.18	83.85	110.32	45.21	2.971 (J)	[A2M2]
507	73.00	109.00	27.00	50.56	93.98	99.34	114.92	953.62	2.976 (J)	[A2M2]
508	68.00	104.00	24.00	47.11	92.19	90.12	113.32	836.00	2.979 (J)	[A2M2]
509	73.00	134.00	27.00	74.78	107.06	90.63	113.55	10.25	2.981 (J)	[PC]
510	73.00	114.00	15.00	64.56	101.60	87.90	112.27	135.46	2.984 (J)	[A2M2]
511	118.00	144.00	30.00	106.70	116.21	147.99	143.23	234.17	2.990 (J)	[PC]
512	113.00	124.00	6.00	111.13	118.30	117.46	119.98	6.41	2.992 (J)	[PC]
513	98.00	124.00	15.00	88.38	112.49	112.04	118.72	100.60	2.993 (J)	[PC]
514	93.00	124.00	15.00	85.40	111.07	105.43	115.61	73.67	2.993 (J)	[PC]
515	118.00	124.00	15.00	105.53	115.66	132.52	120.25	210.69	3.006 (J)	[A2M2]
516	73.00	114.00	9.00	71.11	105.20	80.17	108.56	11.76	3.007 (J)	[PC]
517	73.00	109.00	30.00	47.87	92.61	102.42	114.85	1190.96	3.008 (J)	[A2M2]
518	73.00	109.00	24.00	53.26	95.35	96.25	114.93	740.89	3.012 (J)	[A2M2]
519	68.00	104.00	27.00	44.52	90.67	92.85	114.57	1060.26	3.012 (J)	[A2M2]
520	68.00	104.00	21.00	49.76	93.59	87.40	112.03	638.32	3.013 (J)	[A2M2]
521	73.00	109.00	27.00	50.56	93.98	99.34	114.92	953.62	3.015 (J)	[A2M2]
522	118.00	129.00	18.00	105.79	115.78	133.74	120.26	173.64	3.018 (J)	[A2M2]
523	108.00	129.00	12.00	108.38	117.01	115.85	119.92	5.47	3.019 (J)	[PC]
524	73.00	114.00	21.00	58.77	98.56	93.98	114.95	377.06	3.019 (J)	[A2M2]
525	113.00	124.00	6.00	111.13	118.30	117.46	119.98	6.41	3.023 (J)	[PC]
526	93.00	124.00	15.00	85.40	111.07	105.43	115.61	73.67	3.024 (J)	[PC]
527	73.00	114.00	9.00	71.11	105.20	80.17	108.56	11.76	3.025 (J)	[PC]
528	68.00	109.00	18.00	55.15	96.40	85.85	111.29	320.67	3.026 (J)	[A2M2]
529	98.00	124.00	15.00	88.38	112.49	112.04	118.72	100.60	3.026 (J)	[PC]
530	68.00	109.00	18.00	55.15	96.40	85.85	111.29	320.67	3.029 (J)	[A2M2]
531	73.00	114.00	21.00	58.77	98.56	93.98	114.95	377.06	3.029 (J)	[A2M2]
532	88.00	119.00	12.00	81.25	109.08	99.28	114.92	78.14	3.036 (J)	[A2M2]
533	68.00	104.00	24.00	47.11	92.19	90.12	113.32	836.00	3.040 (J)	[A2M2]
534	73.00	109.00	24.00	53.26	95.35	96.25	114.93	740.89	3.046 (J)	[A2M2]
535	68.00	109.00	15.00	57.83	97.97	82.97	109.90	200.69	3.050 (J)	[A2M2]
536	123.00	149.00	27.00	138.89	127.17	149.66	144.75	77.52	3.055 (J)	[PC]
537	78.00	109.00	6.00	72.70	106.18	83.85	110.32	45.21	3.056 (J)	[A2M2]
538	68.00	109.00	15.00	57.83	97.97	82.97	109.90	200.69	3.061 (J)	[A2M2]
539	88.00	119.00	12.00	81.25	109.08	99.28	114.92	78.14	3.061 (J)	[A2M2]
540	73.00	124.00	18.00	72.42	106.01	85.64	111.18	11.79	3.063 (J)	[PC]
541	78.00	114.00	12.00	70.44	104.68	89.98	113.25	98.61	3.064 (J)	[A2M2]
542	113.00	144.00	27.00	108.99	117.30	125.62	120.13	29.06	3.067 (J)	[PC]
543	88.00	114.00	3.00	86.33	111.51	90.99	113.71	5.37	3.069 (J)	[PC]

544	73.00	134.00	27.00	74.78	107.06	90.63	113.55	10.25	3.069 (J)	[PC]
545	68.00	104.00	21.00	49.76	93.59	87.40	112.03	638.32	3.070 (J)	[A2M2]
546	118.00	124.00	15.00	105.53	115.66	132.52	120.25	210.69	3.071 (J)	[A2M2]
547	78.00	114.00	12.00	70.44	104.68	89.98	113.25	98.61	3.074 (J)	[A2M2]
548	68.00	104.00	18.00	52.45	94.93	84.69	110.73	468.12	3.075 (J)	[A2M2]
549	68.00	129.00	24.00	71.11	105.20	81.69	109.29	6.96	3.083 (J)	[A2M2]
550	78.00	134.00	30.00	70.74	104.89	101.12	114.89	136.46	3.092 (J)	[A2M2]
551	73.00	124.00	18.00	72.42	106.01	85.64	111.18	11.79	3.095 (J)	[PC]
552	78.00	119.00	18.00	68.55	103.68	95.54	114.94	164.48	3.096 (J)	[A2M2]
553	73.00	109.00	21.00	55.90	96.81	93.20	114.73	552.51	3.100 (J)	[A2M2]
554	113.00	144.00	27.00	108.99	117.30	125.62	120.13	29.06	3.103 (J)	[PC]
555	108.00	129.00	12.00	108.38	117.01	115.85	119.92	5.47	3.103 (J)	[PC]
556	68.00	119.00	21.00	60.30	99.46	87.89	112.26	143.70	3.110 (J)	[PC]
557	78.00	124.00	24.00	66.92	102.71	100.21	114.91	236.02	3.112 (J)	[A2M2]
558	78.00	119.00	30.00	57.08	97.50	107.92	116.79	768.25	3.114 (J)	[A2M2]
559	73.00	114.00	18.00	61.56	100.11	91.00	113.72	242.11	3.119 (J)	[A2M2]
560	78.00	134.00	30.00	70.74	104.89	101.12	114.89	136.46	3.121 (J)	[A2M2]
561	68.00	119.00	21.00	60.30	99.46	87.89	112.26	143.70	3.122 (J)	[PC]
562	78.00	119.00	18.00	68.55	103.68	95.54	114.94	164.48	3.124 (J)	[A2M2]
563	68.00	129.00	24.00	71.11	105.20	81.69	109.29	6.96	3.126 (J)	[A2M2]
564	68.00	104.00	18.00	52.45	94.93	84.69	110.73	468.12	3.126 (J)	[A2M2]
565	78.00	119.00	21.00	65.57	102.08	98.60	114.92	278.65	3.127 (J)	[A2M2]
566	123.00	134.00	27.00	103.92	114.89	148.37	143.23	593.59	3.129 (J)	[PC]
567	73.00	109.00	21.00	55.90	96.81	93.20	114.73	552.51	3.129 (J)	[A2M2]
568	78.00	124.00	30.00	60.56	99.59	107.01	116.36	526.66	3.129 (J)	[A2M2]
569	78.00	129.00	27.00	68.57	103.70	101.02	114.89	187.30	3.130 (J)	[A2M2]
570	78.00	124.00	24.00	66.92	102.71	100.21	114.91	236.02	3.130 (J)	[A2M2]
571	118.00	139.00	24.00	108.38	117.01	132.99	120.25	83.68	3.133 (J)	[A2M2]
572	78.00	119.00	30.00	57.08	97.50	107.92	116.79	768.25	3.134 (J)	[A2M2]
573	78.00	124.00	30.00	60.56	99.59	107.01	116.36	526.66	3.136 (J)	[A2M2]
574	73.00	114.00	18.00	61.56	100.11	91.00	113.72	242.11	3.138 (J)	[A2M2]
575	78.00	124.00	27.00	63.62	101.15	103.39	114.83	367.95	3.140 (J)	[A2M2]
576	78.00	119.00	21.00	65.57	102.08	98.60	114.92	278.65	3.141 (J)	[A2M2]
577	78.00	119.00	24.00	62.57	100.62	101.64	114.87	417.09	3.144 (J)	[A2M2]
578	78.00	119.00	24.00	62.57	100.62	101.64	114.87	417.09	3.144 (J)	[A2M2]
579	78.00	124.00	27.00	63.62	101.15	103.39	114.83	367.95	3.144 (J)	[A2M2]
580	88.00	114.00	3.00	86.33	111.51	90.99	113.71	5.37	3.150 (J)	[PC]
581	78.00	129.00	27.00	68.57	103.70	101.02	114.89	187.30	3.153 (J)	[A2M2]
582	123.00	134.00	27.00	103.92	114.89	148.37	143.23	593.59	3.160 (J)	[PC]
583	68.00	104.00	15.00	55.09	96.37	81.98	109.43	324.90	3.161 (J)	[A2M2]
584	83.00	129.00	18.00	85.68	111.20	94.25	114.95	5.10	3.170 (J)	[PC]
585	83.00	119.00	9.00	83.18	110.00	89.89	113.21	4.05	3.172 (J)	[PC]
586	98.00	144.00	30.00	92.66	114.48	115.90	119.93	19.36	3.189 (J)	[A2M2]
587	123.00	149.00	27.00	138.89	127.17	149.66	144.75	77.52	3.189 (J)	[PC]
588	78.00	119.00	27.00	59.71	99.14	104.74	115.28	580.14	3.191 (J)	[A2M2]
589	68.00	119.00	30.00	51.07	94.24	97.72	114.93	574.97	3.199 (J)	[PC]
590	118.00	139.00	24.00	108.38	117.01	132.99	120.25	83.68	3.199 (J)	[A2M2]
591	78.00	119.00	27.00	59.71	99.14	104.74	115.28	580.14	3.201 (J)	[A2M2]
592	68.00	119.00	30.00	51.07	94.24	97.72	114.93	574.97	3.202 (J)	[PC]
593	68.00	124.00	27.00	58.84	98.60	93.39	114.82	217.55	3.204 (J)	[PC]
594	68.00	104.00	15.00	55.09	96.37	81.98	109.43	324.90	3.206 (J)	[A2M2]

595	93.00	119.00	9.00	87.34	112.00	101.01	114.89	43.32	3.210 (J)	[PC]
596	118.00	134.00	24.00	103.57	114.83	141.31	139.73	272.00	3.218 (J)	[PC]
597	68.00	124.00	27.00	58.84	98.60	93.39	114.82	217.55	3.223 (J)	[PC]
598	93.00	119.00	9.00	87.34	112.00	101.01	114.89	43.32	3.225 (J)	[PC]
599	78.00	129.00	30.00	65.16	101.89	104.66	115.24	311.18	3.232 (J)	[A2M2]
600	78.00	114.00	30.00	54.13	95.83	107.87	116.77	1029.83	3.235 (J)	[A2M2]
601	78.00	129.00	30.00	65.16	101.89	104.66	115.24	311.18	3.243 (J)	[A2M2]
602	123.00	129.00	18.00	109.23	117.41	140.17	134.41	223.81	3.243 (J)	[A2M2]
603	118.00	129.00	15.00	108.76	117.19	130.15	120.21	88.74	3.254 (J)	[A2M2]
604	98.00	144.00	30.00	92.66	114.48	115.90	119.93	19.36	3.256 (J)	[A2M2]
605	73.00	109.00	18.00	58.47	98.37	90.44	113.46	393.51	3.266 (J)	[A2M2]
606	78.00	114.00	30.00	54.13	95.83	107.87	116.77	1029.83	3.267 (J)	[A2M2]
607	83.00	129.00	18.00	85.68	111.20	94.25	114.95	5.10	3.271 (J)	[PC]
608	68.00	124.00	30.00	55.63	96.67	96.60	114.93	356.35	3.274 (J)	[PC]
609	118.00	134.00	24.00	103.57	114.83	141.31	139.73	272.00	3.275 (J)	[PC]
610	83.00	119.00	9.00	83.18	110.00	89.89	113.21	4.05	3.276 (J)	[PC]
611	68.00	104.00	12.00	57.68	97.88	79.24	108.21	207.99	3.281 (J)	[A2M2]
612	73.00	109.00	18.00	58.47	98.37	90.44	113.46	393.51	3.282 (J)	[A2M2]
613	68.00	119.00	27.00	54.13	95.83	94.69	114.94	405.57	3.284 (J)	[PC]
614	123.00	129.00	18.00	109.23	117.41	140.17	134.41	223.81	3.287 (J)	[A2M2]
615	68.00	114.00	30.00	47.29	92.29	97.99	114.92	817.05	3.289 (J)	[PC]
616	68.00	124.00	30.00	55.63	96.67	96.60	114.93	356.35	3.290 (J)	[PC]
617	68.00	119.00	27.00	54.13	95.83	94.69	114.94	405.57	3.295 (J)	[PC]
618	108.00	119.00	3.00	106.79	116.25	110.89	118.19	3.25	3.298 (J)	[PC]
619	113.00	139.00	30.00	95.08	114.94	142.90	141.39	317.97	3.298 (J)	[PC]
620	78.00	114.00	27.00	56.78	97.31	104.96	115.39	811.83	3.301 (J)	[A2M2]
621	68.00	114.00	30.00	47.29	92.29	97.99	114.92	817.05	3.305 (J)	[PC]
622	88.00	129.00	21.00	81.30	109.10	103.50	114.83	82.85	3.314 (J)	[PC]
623	68.00	104.00	12.00	57.68	97.88	79.24	108.21	207.99	3.318 (J)	[A2M2]
624	118.00	129.00	15.00	108.76	117.19	130.15	120.21	88.74	3.321 (J)	[A2M2]
625	83.00	124.00	30.00	63.58	101.13	112.57	118.96	611.97	3.324 (J)	[A2M2]
626	78.00	114.00	27.00	56.78	97.31	104.96	115.39	811.83	3.325 (J)	[A2M2]
627	88.00	129.00	21.00	81.30	109.10	103.50	114.83	82.85	3.330 (J)	[PC]
628	103.00	119.00	9.00	94.97	114.94	111.99	118.70	69.46	3.330 (J)	[PC]
629	68.00	109.00	30.00	44.34	90.56	97.41	114.93	1072.89	3.332 (J)	[PC]
630	78.00	114.00	18.00	64.83	101.73	95.98	114.94	308.43	3.337 (J)	[A2M2]
631	83.00	124.00	30.00	63.58	101.13	112.57	118.96	611.97	3.338 (J)	[A2M2]
632	78.00	114.00	24.00	59.34	98.91	101.98	114.87	620.52	3.349 (J)	[A2M2]
633	78.00	114.00	21.00	62.04	100.35	98.98	114.92	453.02	3.350 (J)	[A2M2]
634	68.00	109.00	27.00	46.94	92.10	94.34	114.95	844.92	3.351 (J)	[PC]
635	103.00	119.00	9.00	94.97	114.94	111.99	118.70	69.46	3.351 (J)	[PC]
636	78.00	114.00	21.00	62.04	100.35	98.98	114.92	453.02	3.351 (J)	[A2M2]
637	78.00	114.00	18.00	64.83	101.73	95.98	114.94	308.43	3.351 (J)	[A2M2]
638	68.00	114.00	27.00	50.12	93.77	94.98	114.94	617.55	3.354 (J)	[PC]
639	123.00	134.00	30.00	99.86	114.91	150.55	145.87	811.75	3.354 (J)	[PC]
640	93.00	124.00	12.00	88.87	112.73	100.82	114.89	21.60	3.355 (J)	[A2M2]
641	68.00	114.00	27.00	50.12	93.77	94.98	114.94	617.55	3.358 (J)	[PC]
642	78.00	114.00	24.00	59.34	98.91	101.98	114.87	620.52	3.361 (J)	[A2M2]
643	93.00	124.00	12.00	88.87	112.73	100.82	114.89	21.60	3.371 (J)	[A2M2]
644	123.00	134.00	30.00	99.86	114.91	150.55	145.87	811.75	3.373 (J)	[PC]
645	68.00	109.00	30.00	44.34	90.56	97.41	114.93	1072.89	3.374 (J)	[PC]

646	78.00	109.00	30.00	51.71	94.56	107.08	116.39	1294.59	3.375 (J)	[A2M2]
647	113.00	139.00	30.00	95.08	114.94	142.90	141.39	317.97	3.385 (J)	[PC]
648	68.00	109.00	27.00	46.94	92.10	94.34	114.95	844.92	3.388 (J)	[PC]
649	68.00	119.00	24.00	57.19	97.57	91.46	113.93	260.42	3.390 (J)	[PC]
650	108.00	119.00	3.00	106.79	116.25	110.89	118.19	3.25	3.399 (J)	[PC]
651	83.00	119.00	15.00	74.15	106.89	97.44	114.93	118.42	3.404 (J)	[A2M2]
652	98.00	134.00	21.00	91.60	114.00	112.73	119.04	27.69	3.409 (J)	[A2M2]
653	68.00	119.00	24.00	57.19	97.57	91.46	113.93	260.42	3.410 (J)	[PC]
654	73.00	124.00	24.00	64.48	101.56	95.22	114.94	172.08	3.417 (J)	[PC]
655	113.00	139.00	21.00	110.74	118.12	122.09	120.07	12.56	3.421 (J)	[PC]
656	83.00	119.00	30.00	60.26	99.44	113.00	119.16	861.87	3.427 (J)	[A2M2]
657	78.00	109.00	27.00	54.36	95.96	104.31	115.08	1053.07	3.431 (J)	[A2M2]
658	103.00	119.00	6.00	98.60	114.92	108.71	117.17	15.45	3.432 (J)	[PC]
659	98.00	134.00	21.00	91.60	114.00	112.73	119.04	27.69	3.433 (J)	[A2M2]
660	78.00	109.00	30.00	51.71	94.56	107.08	116.39	1294.59	3.435 (J)	[A2M2]
661	113.00	139.00	21.00	110.74	118.12	122.09	120.07	12.56	3.438 (J)	[PC]
662	68.00	109.00	24.00	49.65	93.53	91.49	113.94	643.23	3.438 (J)	[PC]
663	93.00	139.00	27.00	88.23	112.42	109.19	117.39	32.25	3.441 (J)	[A2M2]
664	83.00	119.00	15.00	74.15	106.89	97.44	114.93	118.42	3.443 (J)	[A2M2]
665	73.00	124.00	24.00	64.48	101.56	95.22	114.94	172.08	3.446 (J)	[PC]
666	118.00	134.00	18.00	110.10	117.83	129.55	120.20	53.48	3.446 (J)	[A2M2]
667	103.00	119.00	6.00	98.60	114.92	108.71	117.17	15.45	3.451 (J)	[PC]
668	93.00	139.00	27.00	88.23	112.42	109.19	117.39	32.25	3.451 (J)	[A2M2]
669	83.00	119.00	30.00	60.26	99.44	113.00	119.16	861.87	3.452 (J)	[A2M2]
670	78.00	114.00	15.00	67.71	103.09	92.99	114.63	190.63	3.461 (J)	[A2M2]
671	118.00	124.00	12.00	108.28	116.96	129.38	120.19	119.93	3.463 (J)	[A2M2]
672	68.00	109.00	24.00	49.65	93.53	91.49	113.94	643.23	3.465 (J)	[PC]
673	68.00	104.00	9.00	60.25	99.43	76.31	107.46	115.17	3.470 (J)	[A2M2]
674	83.00	114.00	9.00	76.71	107.57	92.00	114.18	63.05	3.482 (J)	[PC]
675	78.00	109.00	27.00	54.36	95.96	104.31	115.08	1053.07	3.484 (J)	[A2M2]
676	78.00	109.00	24.00	56.97	97.43	101.27	114.88	834.46	3.485 (J)	[A2M2]
677	73.00	124.00	27.00	60.99	99.82	98.43	114.92	296.08	3.488 (J)	[PC]
678	78.00	114.00	15.00	67.71	103.09	92.99	114.63	190.63	3.489 (J)	[A2M2]
679	123.00	149.00	24.00	139.57	131.64	146.20	142.84	27.10	3.491 (J)	[A2M2]
680	68.00	114.00	21.00	55.92	96.82	88.96	112.78	295.06	3.494 (J)	[PC]
681	83.00	119.00	27.00	63.01	100.85	109.97	117.76	660.66	3.496 (J)	[A2M2]
682	83.00	114.00	9.00	76.71	107.57	92.00	114.18	63.05	3.496 (J)	[PC]
683	68.00	104.00	9.00	60.25	99.43	76.31	107.46	115.17	3.500 (J)	[A2M2]
684	73.00	124.00	27.00	60.99	99.82	98.43	114.92	296.08	3.505 (J)	[PC]
685	83.00	129.00	30.00	67.80	103.13	111.01	118.24	382.14	3.506 (J)	[A2M2]
686	68.00	114.00	21.00	55.92	96.82	88.96	112.78	295.06	3.507 (J)	[PC]
687	83.00	129.00	30.00	67.80	103.13	111.01	118.24	382.14	3.510 (J)	[A2M2]
688	73.00	119.00	27.00	56.85	97.36	99.69	114.91	496.47	3.512 (J)	[PC]
689	73.00	119.00	27.00	56.85	97.36	99.69	114.91	496.47	3.514 (J)	[PC]
690	83.00	119.00	27.00	63.01	100.85	109.97	117.76	660.66	3.516 (J)	[A2M2]
691	73.00	119.00	30.00	54.02	95.77	102.71	114.85	674.07	3.517 (J)	[PC]
692	83.00	124.00	27.00	66.59	102.56	109.18	117.39	438.48	3.522 (J)	[A2M2]
693	118.00	134.00	18.00	110.10	117.83	129.55	120.20	53.48	3.522 (J)	[A2M2]
694	83.00	124.00	27.00	66.59	102.56	109.18	117.39	438.48	3.526 (J)	[A2M2]
695	73.00	119.00	30.00	54.02	95.77	102.71	114.85	674.07	3.530 (J)	[PC]
696	118.00	124.00	12.00	108.28	116.96	129.38	120.19	119.93	3.530 (J)	[A2M2]

697	78.00	109.00	24.00	56.97	97.43	101.27	114.88	834.46	3.533 (J)	[A2M2]
698	73.00	109.00	15.00	61.10	99.87	87.66	112.15	260.09	3.539 (J)	[A2M2]
699	88.00	139.00	27.00	87.36	112.01	100.19	114.91	16.94	3.540 (J)	[PC]
700	78.00	109.00	3.00	75.55	107.26	81.00	108.96	7.99	3.541 (J)	[A2M2]
701	73.00	129.00	30.00	62.86	100.77	99.49	114.91	243.31	3.541 (J)	[PC]
702	73.00	109.00	15.00	61.10	99.87	87.66	112.15	260.09	3.543 (J)	[A2M2]
703	68.00	114.00	24.00	53.04	95.23	92.00	114.18	442.04	3.544 (J)	[PC]
704	73.00	124.00	30.00	57.95	98.05	101.58	114.88	444.61	3.547 (J)	[PC]
705	93.00	129.00	18.00	87.24	111.95	104.54	115.18	41.25	3.552 (J)	[PC]
706	73.00	124.00	30.00	57.95	98.05	101.58	114.88	444.61	3.552 (J)	[PC]
707	88.00	124.00	30.00	66.88	102.70	117.73	119.99	699.41	3.554 (J)	[A2M2]
708	68.00	114.00	24.00	53.04	95.23	92.00	114.18	442.04	3.556 (J)	[PC]
709	73.00	109.00	12.00	63.83	101.26	84.86	110.81	154.05	3.558 (J)	[A2M2]
710	78.00	109.00	3.00	75.55	107.26	81.00	108.96	7.99	3.559 (J)	[A2M2]
711	78.00	109.00	21.00	59.52	99.02	98.15	114.92	637.14	3.561 (J)	[A2M2]
712	73.00	129.00	30.00	62.86	100.77	99.49	114.91	243.31	3.566 (J)	[PC]
713	123.00	129.00	30.00	96.50	114.93	149.02	143.93	1028.45	3.568 (J)	[A2M2]
714	73.00	119.00	24.00	59.61	99.08	96.65	114.93	342.05	3.570 (J)	[PC]
715	93.00	129.00	18.00	87.24	111.95	104.54	115.18	41.25	3.571 (J)	[PC]
716	73.00	109.00	12.00	63.83	101.26	84.86	110.81	154.05	3.572 (J)	[A2M2]
717	123.00	129.00	30.00	96.50	114.93	149.02	143.93	1028.45	3.576 (J)	[A2M2]
718	88.00	124.00	30.00	66.88	102.70	117.73	119.99	699.41	3.576 (J)	[A2M2]
719	88.00	139.00	27.00	87.36	112.01	100.19	114.91	16.94	3.584 (J)	[PC]
720	73.00	119.00	24.00	59.61	99.08	96.65	114.93	342.05	3.585 (J)	[PC]
721	88.00	134.00	27.00	79.67	108.32	109.35	117.47	124.65	3.591 (J)	[A2M2]
722	68.00	104.00	30.00	42.00	89.04	95.94	114.94	1317.95	3.594 (J)	[PC]
723	83.00	129.00	24.00	73.85	106.81	102.39	114.86	131.70	3.596 (J)	[A2M2]
724	68.00	109.00	21.00	52.42	94.91	88.68	112.64	467.94	3.602 (J)	[PC]
725	123.00	129.00	27.00	99.97	114.91	146.18	142.84	769.30	3.603 (J)	[A2M2]
726	78.00	109.00	21.00	59.52	99.02	98.15	114.92	637.14	3.604 (J)	[A2M2]
727	123.00	129.00	27.00	99.97	114.91	146.18	142.84	769.30	3.606 (J)	[A2M2]
728	68.00	109.00	21.00	52.42	94.91	88.68	112.64	467.94	3.615 (J)	[PC]
729	68.00	114.00	18.00	58.76	98.55	85.79	111.25	175.80	3.616 (J)	[PC]
730	88.00	134.00	27.00	79.67	108.32	109.35	117.47	124.65	3.617 (J)	[A2M2]
731	118.00	134.00	30.00	94.83	114.94	146.61	143.03	687.34	3.623 (J)	[PC]
732	78.00	124.00	21.00	70.13	104.53	96.94	114.93	128.76	3.623 (J)	[PC]
733	83.00	119.00	24.00	65.85	102.21	106.85	116.28	485.99	3.623 (J)	[A2M2]
734	118.00	134.00	27.00	98.90	114.92	143.85	141.81	462.57	3.625 (J)	[PC]
735	118.00	144.00	27.00	110.57	118.04	130.78	120.22	41.66	3.626 (J)	[A2M2]
736	83.00	114.00	30.00	57.69	97.89	112.59	118.97	1133.01	3.629 (J)	[A2M2]
737	88.00	129.00	30.00	70.44	104.68	116.60	119.95	459.08	3.630 (J)	[A2M2]
738	83.00	119.00	24.00	65.85	102.21	106.85	116.28	485.99	3.634 (J)	[A2M2]
739	83.00	129.00	24.00	73.85	106.81	102.39	114.86	131.70	3.635 (J)	[A2M2]
740	88.00	129.00	30.00	70.44	104.68	116.60	119.95	459.08	3.635 (J)	[A2M2]
741	73.00	114.00	30.00	50.63	94.01	102.99	114.84	923.53	3.637 (J)	[PC]
742	83.00	124.00	21.00	72.29	105.93	101.91	114.87	177.16	3.640 (J)	[A2M2]
743	83.00	119.00	18.00	71.30	105.32	100.53	114.90	217.02	3.641 (J)	[A2M2]
744	93.00	119.00	6.00	90.56	113.52	97.41	114.93	8.03	3.642 (J)	[A2M2]
745	68.00	114.00	18.00	58.76	98.55	85.79	111.25	175.80	3.643 (J)	[PC]
746	73.00	114.00	27.00	53.40	95.43	99.98	114.91	718.37	3.647 (J)	[PC]
747	118.00	134.00	30.00	94.83	114.94	146.61	143.03	687.34	3.655 (J)	[PC]

748	78.00	124.00	21.00	70.13	104.53	96.94	114.93	128.76	3.655 (J)	[PC]
749	83.00	119.00	18.00	71.30	105.32	100.53	114.90	217.02	3.660 (J)	[A2M2]
750	73.00	114.00	27.00	53.40	95.43	99.98	114.91	718.37	3.662 (J)	[PC]
751	73.00	114.00	30.00	50.63	94.01	102.99	114.84	923.53	3.663 (J)	[PC]
752	123.00	149.00	24.00	139.57	131.64	146.20	142.84	27.10	3.665 (J)	[A2M2]
753	83.00	124.00	21.00	72.29	105.93	101.91	114.87	177.16	3.667 (J)	[A2M2]
754	68.00	104.00	30.00	42.00	89.04	95.94	114.94	1317.95	3.673 (J)	[PC]
755	118.00	134.00	27.00	98.90	114.92	143.85	141.81	462.57	3.674 (J)	[PC]
756	83.00	114.00	30.00	57.69	97.89	112.59	118.97	1133.01	3.675 (J)	[A2M2]
757	73.00	119.00	21.00	62.71	100.69	93.60	114.91	211.00	3.677 (J)	[PC]
758	68.00	104.00	27.00	44.52	90.67	92.85	114.57	1060.26	3.686 (J)	[PC]
759	73.00	114.00	24.00	56.12	96.94	96.98	114.93	536.06	3.687 (J)	[PC]
760	73.00	114.00	24.00	56.12	96.94	96.98	114.93	536.06	3.690 (J)	[PC]
761	93.00	119.00	6.00	90.56	113.52	97.41	114.93	8.03	3.691 (J)	[A2M2]
762	118.00	129.00	18.00	105.79	115.78	133.74	120.26	173.64	3.701 (J)	[PC]
763	78.00	109.00	18.00	62.18	100.42	94.99	114.94	463.74	3.704 (J)	[A2M2]
764	83.00	124.00	24.00	69.45	104.19	105.50	115.64	293.55	3.704 (J)	[A2M2]
765	73.00	109.00	30.00	47.87	92.61	102.42	114.85	1190.96	3.706 (J)	[PC]
766	73.00	114.00	15.00	64.56	101.60	87.90	112.27	135.46	3.708 (J)	[PC]
767	73.00	119.00	21.00	62.71	100.69	93.60	114.91	211.00	3.709 (J)	[PC]
768	118.00	144.00	27.00	110.57	118.04	130.78	120.22	41.66	3.709 (J)	[A2M2]
769	78.00	109.00	6.00	72.70	106.18	83.85	110.32	45.21	3.712 (J)	[PC]
770	83.00	124.00	24.00	69.45	104.19	105.50	115.64	293.55	3.714 (J)	[A2M2]
771	88.00	119.00	30.00	63.82	101.25	117.98	120.00	958.56	3.716 (J)	[A2M2]
772	83.00	119.00	21.00	68.59	103.72	103.58	114.82	338.79	3.717 (J)	[A2M2]
773	73.00	109.00	27.00	50.56	93.98	99.34	114.92	953.62	3.720 (J)	[PC]
774	83.00	119.00	21.00	68.59	103.72	103.58	114.82	338.79	3.720 (J)	[A2M2]
775	68.00	104.00	24.00	47.11	92.19	90.12	113.32	836.00	3.724 (J)	[PC]
776	98.00	129.00	21.00	86.35	111.53	116.96	119.96	160.01	3.728 (J)	[A2M2]
777	73.00	114.00	15.00	64.56	101.60	87.90	112.27	135.46	3.730 (J)	[PC]
778	88.00	124.00	27.00	69.58	104.26	114.68	119.88	513.95	3.731 (J)	[A2M2]
779	78.00	109.00	18.00	62.18	100.42	94.99	114.94	463.74	3.742 (J)	[A2M2]
780	103.00	129.00	21.00	89.41	112.99	122.01	120.07	198.62	3.742 (J)	[A2M2]
781	83.00	114.00	27.00	60.26	99.44	109.75	117.66	900.56	3.742 (J)	[A2M2]
782	83.00	114.00	12.00	73.47	106.71	94.96	114.94	141.24	3.743 (J)	[A2M2]
783	88.00	124.00	27.00	69.58	104.26	114.68	119.88	513.95	3.743 (J)	[A2M2]
784	88.00	119.00	30.00	63.82	101.25	117.98	120.00	958.56	3.749 (J)	[A2M2]
785	88.00	119.00	27.00	66.59	102.55	114.99	119.89	747.87	3.757 (J)	[A2M2]
786	118.00	124.00	15.00	105.53	115.66	132.52	120.25	210.69	3.758 (J)	[PC]
787	98.00	129.00	21.00	86.35	111.53	116.96	119.96	160.01	3.759 (J)	[A2M2]
788	73.00	109.00	30.00	47.87	92.61	102.42	114.85	1190.96	3.760 (J)	[PC]
789	103.00	129.00	21.00	89.41	112.99	122.01	120.07	198.62	3.762 (J)	[A2M2]
790	83.00	129.00	27.00	70.78	104.93	106.81	116.26	241.43	3.764 (J)	[A2M2]
791	73.00	109.00	24.00	53.26	95.35	96.25	114.93	740.89	3.765 (J)	[PC]
792	68.00	104.00	27.00	44.52	90.67	92.85	114.57	1060.26	3.765 (J)	[PC]
793	68.00	104.00	21.00	49.76	93.59	87.40	112.03	638.32	3.766 (J)	[PC]
794	73.00	109.00	27.00	50.56	93.98	99.34	114.92	953.62	3.768 (J)	[PC]
795	118.00	129.00	18.00	105.79	115.78	133.74	120.26	173.64	3.773 (J)	[PC]
796	73.00	114.00	21.00	58.77	98.56	93.98	114.95	377.06	3.773 (J)	[PC]
797	83.00	114.00	12.00	73.47	106.71	94.96	114.94	141.24	3.775 (J)	[A2M2]
798	83.00	114.00	27.00	60.26	99.44	109.75	117.66	900.56	3.779 (J)	[A2M2]

799	68.00	109.00	18.00	55.15	96.40	85.85	111.29	320.67	3.782 (J)	[PC]
800	83.00	129.00	27.00	70.78	104.93	106.81	116.26	241.43	3.782 (J)	[A2M2]
801	88.00	119.00	27.00	66.59	102.55	114.99	119.89	747.87	3.785 (J)	[A2M2]
802	73.00	114.00	21.00	58.77	98.56	93.98	114.95	377.06	3.785 (J)	[PC]
803	68.00	109.00	18.00	55.15	96.40	85.85	111.29	320.67	3.786 (J)	[PC]
804	88.00	119.00	12.00	81.25	109.08	99.28	114.92	78.14	3.793 (J)	[PC]
805	68.00	104.00	24.00	47.11	92.19	90.12	113.32	836.00	3.800 (J)	[PC]
806	73.00	109.00	24.00	53.26	95.35	96.25	114.93	740.89	3.808 (J)	[PC]
807	68.00	109.00	15.00	57.83	97.97	82.97	109.90	200.69	3.812 (J)	[PC]
808	78.00	109.00	6.00	72.70	106.18	83.85	110.32	45.21	3.818 (J)	[PC]
809	88.00	119.00	12.00	81.25	109.08	99.28	114.92	78.14	3.825 (J)	[PC]
810	68.00	109.00	15.00	57.83	97.97	82.97	109.90	200.69	3.826 (J)	[PC]
811	78.00	114.00	12.00	70.44	104.68	89.98	113.25	98.61	3.830 (J)	[PC]
812	123.00	129.00	24.00	103.63	114.82	143.42	141.62	542.99	3.831 (J)	[A2M2]
813	68.00	104.00	21.00	49.76	93.59	87.40	112.03	638.32	3.837 (J)	[PC]
814	118.00	124.00	15.00	105.53	115.66	132.52	120.25	210.69	3.839 (J)	[PC]
815	78.00	114.00	12.00	70.44	104.68	89.98	113.25	98.61	3.842 (J)	[PC]
816	68.00	104.00	18.00	52.45	94.93	84.69	110.73	468.12	3.844 (J)	[PC]
817	123.00	129.00	24.00	103.63	114.82	143.42	141.62	542.99	3.846 (J)	[A2M2]
818	83.00	114.00	24.00	62.95	100.81	106.89	116.30	695.82	3.848 (J)	[A2M2]
819	68.00	129.00	24.00	71.11	105.20	81.69	109.29	6.96	3.854 (J)	[PC]
820	93.00	134.00	27.00	81.90	109.39	116.05	119.93	175.59	3.859 (J)	[A2M2]
821	83.00	134.00	30.00	72.34	105.96	107.40	116.54	185.45	3.859 (J)	[A2M2]
822	78.00	134.00	30.00	70.74	104.89	101.12	114.89	136.46	3.865 (J)	[PC]
823	78.00	119.00	18.00	68.55	103.68	95.54	114.94	164.48	3.869 (J)	[PC]
824	83.00	114.00	24.00	62.95	100.81	106.89	116.30	695.82	3.874 (J)	[A2M2]
825	73.00	109.00	21.00	55.90	96.81	93.20	114.73	552.51	3.876 (J)	[PC]
826	83.00	114.00	18.00	68.36	103.52	100.98	114.89	371.98	3.880 (J)	[A2M2]
827	83.00	114.00	21.00	65.68	102.13	103.98	114.92	521.93	3.882 (J)	[A2M2]
828	83.00	114.00	18.00	68.36	103.52	100.98	114.89	371.98	3.884 (J)	[A2M2]
829	78.00	124.00	24.00	66.92	102.71	100.21	114.91	236.02	3.889 (J)	[PC]
830	83.00	134.00	30.00	72.34	105.96	107.40	116.54	185.45	3.890 (J)	[A2M2]
831	78.00	119.00	30.00	57.08	97.50	107.92	116.79	768.25	3.892 (J)	[PC]
832	78.00	109.00	15.00	64.87	101.75	92.07	114.21	316.97	3.892 (J)	[A2M2]
833	93.00	134.00	27.00	81.90	109.39	116.05	119.93	175.59	3.894 (J)	[A2M2]
834	73.00	114.00	18.00	61.56	100.11	91.00	113.72	242.11	3.898 (J)	[PC]
835	83.00	114.00	21.00	65.68	102.13	103.98	114.92	521.93	3.898 (J)	[A2M2]
836	78.00	134.00	30.00	70.74	104.89	101.12	114.89	136.46	3.901 (J)	[PC]
837	78.00	119.00	18.00	68.55	103.68	95.54	114.94	164.48	3.903 (J)	[PC]
838	68.00	129.00	24.00	71.11	105.20	81.69	109.29	6.96	3.907 (J)	[PC]
839	68.00	104.00	18.00	52.45	94.93	84.69	110.73	468.12	3.908 (J)	[PC]
840	78.00	119.00	21.00	65.57	102.08	98.60	114.92	278.65	3.908 (J)	[PC]
841	78.00	129.00	27.00	68.57	103.70	101.02	114.89	187.30	3.911 (J)	[PC]
842	73.00	109.00	21.00	55.90	96.81	93.20	114.73	552.51	3.911 (J)	[PC]
843	78.00	124.00	30.00	60.56	99.59	107.01	116.36	526.66	3.912 (J)	[PC]
844	78.00	124.00	24.00	66.92	102.71	100.21	114.91	236.02	3.912 (J)	[PC]
845	118.00	129.00	30.00	91.93	114.15	144.90	142.27	912.72	3.914 (J)	[A2M2]
846	83.00	114.00	15.00	70.95	105.07	97.97	114.92	244.58	3.915 (J)	[A2M2]
847	118.00	139.00	24.00	108.38	117.01	132.99	120.25	83.68	3.916 (J)	[PC]
848	78.00	119.00	30.00	57.08	97.50	107.92	116.79	768.25	3.917 (J)	[PC]
849	118.00	129.00	30.00	91.93	114.15	144.90	142.27	912.72	3.917 (J)	[A2M2]

850	78.00	124.00	30.00	60.56	99.59	107.01	116.36	526.66	3.920 (J)	[PC]
851	73.00	114.00	18.00	61.56	100.11	91.00	113.72	242.11	3.922 (J)	[PC]
852	78.00	109.00	15.00	64.87	101.75	92.07	114.21	316.97	3.923 (J)	[A2M2]
853	78.00	124.00	27.00	63.62	101.15	103.39	114.83	367.95	3.925 (J)	[PC]
854	78.00	119.00	21.00	65.57	102.08	98.60	114.92	278.65	3.926 (J)	[PC]
855	88.00	124.00	18.00	79.33	108.23	103.49	114.83	121.11	3.926 (J)	[A2M2]
856	78.00	119.00	24.00	62.57	100.62	101.64	114.87	417.09	3.929 (J)	[PC]
857	78.00	119.00	24.00	62.57	100.62	101.64	114.87	417.09	3.929 (J)	[PC]
858	78.00	124.00	27.00	63.62	101.15	103.39	114.83	367.95	3.931 (J)	[PC]
859	83.00	114.00	15.00	70.95	105.07	97.97	114.92	244.58	3.931 (J)	[A2M2]
860	78.00	129.00	27.00	68.57	103.70	101.02	114.89	187.30	3.940 (J)	[PC]
861	88.00	134.00	30.00	74.79	107.06	114.44	119.82	243.45	3.943 (J)	[A2M2]
862	113.00	134.00	30.00	90.92	113.69	142.16	141.06	559.61	3.943 (J)	[A2M2]
863	68.00	104.00	15.00	55.09	96.37	81.98	109.43	324.90	3.951 (J)	[PC]
864	88.00	124.00	18.00	79.33	108.23	103.49	114.83	121.11	3.956 (J)	[A2M2]
865	118.00	134.00	21.00	106.78	116.25	136.67	124.39	134.07	3.957 (J)	[A2M2]
866	88.00	129.00	27.00	73.12	106.47	113.17	119.24	301.08	3.963 (J)	[A2M2]
867	88.00	134.00	30.00	74.79	107.06	114.44	119.82	243.45	3.970 (J)	[A2M2]
868	88.00	129.00	27.00	73.12	106.47	113.17	119.24	301.08	3.976 (J)	[A2M2]
869	93.00	129.00	30.00	73.16	106.50	121.64	120.06	530.89	3.982 (J)	[A2M2]
870	98.00	144.00	30.00	92.66	114.48	115.90	119.93	19.36	3.986 (J)	[PC]
871	78.00	119.00	27.00	59.71	99.14	104.74	115.28	580.14	3.988 (J)	[PC]
872	123.00	129.00	21.00	106.44	116.09	141.24	139.41	359.68	3.988 (J)	[A2M2]
873	113.00	134.00	30.00	90.92	113.69	142.16	141.06	559.61	3.988 (J)	[A2M2]
874	93.00	124.00	30.00	70.16	104.54	122.74	120.08	781.91	3.990 (J)	[A2M2]
875	93.00	129.00	30.00	73.16	106.50	121.64	120.06	530.89	3.993 (J)	[A2M2]
876	118.00	134.00	21.00	106.78	116.25	136.67	124.39	134.07	3.994 (J)	[A2M2]
877	118.00	139.00	24.00	108.38	117.01	132.99	120.25	83.68	3.999 (J)	[PC]
878	78.00	119.00	27.00	59.71	99.14	104.74	115.28	580.14	4.000 (J)	[PC]
879	68.00	104.00	15.00	55.09	96.37	81.98	109.43	324.90	4.007 (J)	[PC]
880	88.00	119.00	24.00	69.21	104.07	112.00	118.70	556.35	4.012 (J)	[A2M2]
881	123.00	129.00	21.00	106.44	116.09	141.24	139.41	359.68	4.019 (J)	[A2M2]
882	93.00	124.00	30.00	70.16	104.54	122.74	120.08	781.91	4.022 (J)	[A2M2]
883	88.00	119.00	24.00	69.21	104.07	112.00	118.70	556.35	4.032 (J)	[A2M2]
884	108.00	129.00	21.00	92.78	114.54	127.05	120.15	230.39	4.033 (J)	[A2M2]
885	78.00	129.00	30.00	65.16	101.89	104.66	115.24	311.18	4.039 (J)	[PC]
886	108.00	129.00	21.00	92.78	114.54	127.05	120.15	230.39	4.042 (J)	[A2M2]
887	88.00	124.00	24.00	72.24	105.90	111.34	118.40	353.21	4.042 (J)	[A2M2]
888	78.00	114.00	30.00	54.13	95.83	107.87	116.77	1029.83	4.043 (J)	[PC]
889	88.00	124.00	24.00	72.24	105.90	111.34	118.40	353.21	4.043 (J)	[A2M2]
890	123.00	129.00	18.00	109.23	117.41	140.17	134.41	223.81	4.053 (J)	[PC]
891	78.00	129.00	30.00	65.16	101.89	104.66	115.24	311.18	4.053 (J)	[PC]
892	88.00	114.00	30.00	61.44	100.05	117.40	119.98	1234.72	4.066 (J)	[A2M2]
893	118.00	129.00	15.00	108.76	117.19	130.15	120.21	88.74	4.067 (J)	[PC]
894	93.00	124.00	27.00	72.71	106.19	119.71	120.03	587.21	4.067 (J)	[A2M2]
895	98.00	144.00	30.00	92.66	114.48	115.90	119.93	19.36	4.070 (J)	[PC]
896	93.00	134.00	30.00	78.13	107.94	119.55	120.03	305.81	4.071 (J)	[A2M2]
897	73.00	109.00	18.00	58.47	98.37	90.44	113.46	393.51	4.083 (J)	[PC]
898	78.00	114.00	30.00	54.13	95.83	107.87	116.77	1029.83	4.083 (J)	[PC]
899	118.00	124.00	9.00	111.06	118.27	126.13	120.14	53.58	4.086 (J)	[A2M2]
900	93.00	129.00	27.00	76.61	107.54	118.46	120.01	365.59	4.086 (J)	[A2M2]

901	93.00	124.00	27.00	72.71	106.19	119.71	120.03	587.21	4.087 (J)	[A2M2]
902	93.00	134.00	30.00	78.13	107.94	119.55	120.03	305.81	4.093 (J)	[A2M2]
903	93.00	129.00	27.00	76.61	107.54	118.46	120.01	365.59	4.095 (J)	[A2M2]
904	68.00	104.00	12.00	57.68	97.88	79.24	108.21	207.99	4.102 (J)	[PC]
905	73.00	109.00	18.00	58.47	98.37	90.44	113.46	393.51	4.103 (J)	[PC]
906	123.00	129.00	18.00	109.23	117.41	140.17	134.41	223.81	4.107 (J)	[PC]
907	88.00	114.00	30.00	61.44	100.05	117.40	119.98	1234.72	4.125 (J)	[A2M2]
908	78.00	114.00	27.00	56.78	97.31	104.96	115.39	811.83	4.126 (J)	[PC]
909	118.00	129.00	12.00	111.91	118.66	126.09	120.14	29.65	4.142 (J)	[A2M2]
910	68.00	104.00	12.00	57.68	97.88	79.24	108.21	207.99	4.148 (J)	[PC]
911	118.00	129.00	15.00	108.76	117.19	130.15	120.21	88.74	4.151 (J)	[PC]
912	83.00	124.00	30.00	63.58	101.13	112.57	118.96	611.97	4.154 (J)	[PC]
913	78.00	114.00	27.00	56.78	97.31	104.96	115.39	811.83	4.155 (J)	[PC]
914	93.00	119.00	30.00	67.60	103.04	122.98	120.08	1050.38	4.162 (J)	[A2M2]
915	78.00	114.00	18.00	64.83	101.73	95.98	114.94	308.43	4.169 (J)	[PC]
916	83.00	124.00	30.00	63.58	101.13	112.57	118.96	611.97	4.172 (J)	[PC]
917	118.00	124.00	9.00	111.06	118.27	126.13	120.14	53.58	4.179 (J)	[A2M2]
918	93.00	124.00	24.00	75.75	107.32	116.66	119.95	416.08	4.181 (J)	[A2M2]
919	93.00	124.00	24.00	75.75	107.32	116.66	119.95	416.08	4.184 (J)	[A2M2]
920	78.00	114.00	24.00	59.34	98.91	101.98	114.87	620.52	4.185 (J)	[PC]
921	78.00	114.00	21.00	62.04	100.35	98.98	114.92	453.02	4.187 (J)	[PC]
922	78.00	114.00	18.00	64.83	101.73	95.98	114.94	308.43	4.187 (J)	[PC]
923	78.00	114.00	21.00	62.04	100.35	98.98	114.92	453.02	4.188 (J)	[PC]
924	93.00	124.00	12.00	88.87	112.73	100.82	114.89	21.60	4.194 (J)	[PC]
925	78.00	114.00	24.00	59.34	98.91	101.98	114.87	620.52	4.200 (J)	[PC]
926	93.00	119.00	30.00	67.60	103.04	122.98	120.08	1050.38	4.209 (J)	[A2M2]
927	93.00	124.00	12.00	88.87	112.73	100.82	114.89	21.60	4.214 (J)	[PC]
928	78.00	109.00	30.00	51.71	94.56	107.08	116.39	1294.59	4.219 (J)	[PC]
929	93.00	119.00	27.00	70.19	104.56	119.98	120.03	827.94	4.224 (J)	[A2M2]
930	88.00	114.00	27.00	64.12	101.39	114.37	119.79	990.73	4.242 (J)	[A2M2]
931	118.00	129.00	12.00	111.91	118.66	126.09	120.14	29.65	4.242 (J)	[A2M2]
932	93.00	129.00	24.00	80.31	108.63	115.21	119.90	227.02	4.249 (J)	[A2M2]
933	83.00	119.00	15.00	74.15	106.89	97.44	114.93	118.42	4.255 (J)	[PC]
934	98.00	134.00	21.00	91.60	114.00	112.73	119.04	27.69	4.261 (J)	[PC]
935	93.00	119.00	27.00	70.19	104.56	119.98	120.03	827.94	4.264 (J)	[A2M2]
936	78.00	109.00	12.00	67.59	103.04	89.33	112.95	199.85	4.269 (J)	[A2M2]
937	93.00	129.00	24.00	80.31	108.63	115.21	119.90	227.02	4.279 (J)	[A2M2]
938	83.00	119.00	30.00	60.26	99.44	113.00	119.16	861.87	4.283 (J)	[PC]
939	78.00	109.00	12.00	67.59	103.04	89.33	112.95	199.85	4.284 (J)	[A2M2]
940	78.00	109.00	27.00	54.36	95.96	104.31	115.08	1053.07	4.288 (J)	[PC]
941	98.00	134.00	21.00	91.60	114.00	112.73	119.04	27.69	4.292 (J)	[PC]
942	78.00	109.00	30.00	51.71	94.56	107.08	116.39	1294.59	4.294 (J)	[PC]
943	88.00	119.00	21.00	71.80	105.63	108.93	117.27	394.76	4.294 (J)	[A2M2]
944	93.00	129.00	21.00	83.62	110.21	111.05	118.26	117.09	4.294 (J)	[A2M2]
945	88.00	114.00	27.00	64.12	101.39	114.37	119.79	990.73	4.297 (J)	[A2M2]
946	93.00	139.00	27.00	88.23	112.42	109.19	117.39	32.25	4.301 (J)	[PC]
947	88.00	119.00	21.00	71.80	105.63	108.93	117.27	394.76	4.303 (J)	[A2M2]
948	83.00	119.00	15.00	74.15	106.89	97.44	114.93	118.42	4.303 (J)	[PC]
949	118.00	129.00	27.00	94.95	114.94	142.16	141.06	659.42	4.304 (J)	[A2M2]
950	118.00	134.00	18.00	110.10	117.83	129.55	120.20	53.48	4.308 (J)	[PC]
951	93.00	139.00	27.00	88.23	112.42	109.19	117.39	32.25	4.314 (J)	[PC]

952	83.00	119.00	30.00	60.26	99.44	113.00	119.16	861.87	4.314 (J)	[PC]
953	118.00	129.00	27.00	94.95	114.94	142.16	141.06	659.42	4.314 (J)	[A2M2]
954	78.00	114.00	15.00	67.71	103.09	92.99	114.63	190.63	4.325 (J)	[PC]
955	118.00	124.00	12.00	108.28	116.96	129.38	120.19	119.93	4.328 (J)	[PC]
956	88.00	114.00	9.00	80.66	108.79	96.95	114.93	96.63	4.329 (J)	[A2M2]
957	68.00	104.00	9.00	60.25	99.43	76.31	107.46	115.17	4.338 (J)	[PC]
958	93.00	129.00	21.00	83.62	110.21	111.05	118.26	117.09	4.339 (J)	[A2M2]
959	93.00	119.00	24.00	72.71	106.19	116.98	119.96	627.64	4.346 (J)	[A2M2]
960	118.00	139.00	21.00	112.23	118.81	127.27	120.16	20.96	4.354 (J)	[A2M2]
961	78.00	109.00	27.00	54.36	95.96	104.31	115.08	1053.07	4.354 (J)	[PC]
962	78.00	109.00	24.00	56.97	97.43	101.27	114.88	834.46	4.356 (J)	[PC]
963	78.00	114.00	15.00	67.71	103.09	92.99	114.63	190.63	4.361 (J)	[PC]
964	123.00	149.00	24.00	139.57	131.64	146.20	142.84	27.10	4.363 (J)	[PC]
965	88.00	129.00	24.00	77.03	107.65	108.94	117.27	173.96	4.367 (J)	[A2M2]
966	83.00	119.00	27.00	63.01	100.85	109.97	117.76	660.66	4.369 (J)	[PC]
967	93.00	119.00	24.00	72.71	106.19	116.98	119.96	627.64	4.375 (J)	[A2M2]
968	68.00	104.00	9.00	60.25	99.43	76.31	107.46	115.17	4.375 (J)	[PC]
969	98.00	134.00	27.00	84.48	110.63	121.12	120.05	225.55	4.377 (J)	[A2M2]
970	88.00	114.00	9.00	80.66	108.79	96.95	114.93	96.63	4.380 (J)	[A2M2]
971	113.00	129.00	21.00	97.41	114.93	132.08	120.24	256.91	4.381 (J)	[A2M2]
972	83.00	129.00	30.00	67.80	103.13	111.01	118.24	382.14	4.382 (J)	[PC]
973	113.00	129.00	21.00	97.41	114.93	132.08	120.24	256.91	4.384 (J)	[A2M2]
974	83.00	129.00	30.00	67.80	103.13	111.01	118.24	382.14	4.386 (J)	[PC]
975	83.00	119.00	27.00	63.01	100.85	109.97	117.76	660.66	4.395 (J)	[PC]
976	83.00	124.00	27.00	66.59	102.56	109.18	117.39	438.48	4.401 (J)	[PC]
977	118.00	134.00	18.00	110.10	117.83	129.55	120.20	53.48	4.403 (J)	[PC]
978	88.00	124.00	21.00	75.38	107.22	107.68	116.68	220.64	4.407 (J)	[A2M2]
979	88.00	129.00	24.00	77.03	107.65	108.94	117.27	173.96	4.407 (J)	[A2M2]
980	83.00	124.00	27.00	66.59	102.56	109.18	117.39	438.48	4.407 (J)	[PC]
981	118.00	124.00	12.00	108.28	116.96	129.38	120.19	119.93	4.413 (J)	[PC]
982	78.00	109.00	24.00	56.97	97.43	101.27	114.88	834.46	4.416 (J)	[PC]
983	98.00	134.00	27.00	84.48	110.63	121.12	120.05	225.55	4.418 (J)	[A2M2]
984	73.00	109.00	15.00	61.10	99.87	87.66	112.15	260.09	4.424 (J)	[PC]
985	78.00	109.00	3.00	75.55	107.26	81.00	108.96	7.99	4.424 (J)	[PC]
986	73.00	109.00	15.00	61.10	99.87	87.66	112.15	260.09	4.428 (J)	[PC]
987	88.00	124.00	21.00	75.38	107.22	107.68	116.68	220.64	4.431 (J)	[A2M2]
988	88.00	119.00	15.00	77.92	107.89	102.42	114.85	155.92	4.432 (J)	[A2M2]
989	88.00	124.00	30.00	66.88	102.70	117.73	119.99	699.41	4.441 (J)	[PC]
990	88.00	114.00	24.00	66.84	102.68	111.57	118.50	774.92	4.443 (J)	[A2M2]
991	78.00	109.00	3.00	75.55	107.26	81.00	108.96	7.99	4.447 (J)	[PC]
992	73.00	109.00	12.00	63.83	101.26	84.86	110.81	154.05	4.447 (J)	[PC]
993	78.00	109.00	21.00	59.52	99.02	98.15	114.92	637.14	4.451 (J)	[PC]
994	118.00	139.00	21.00	112.23	118.81	127.27	120.16	20.96	4.458 (J)	[A2M2]
995	123.00	129.00	30.00	96.50	114.93	149.02	143.93	1028.45	4.459 (J)	[PC]
996	73.00	109.00	12.00	63.83	101.26	84.86	110.81	154.05	4.465 (J)	[PC]
997	123.00	129.00	30.00	96.50	114.93	149.02	143.93	1028.45	4.469 (J)	[PC]
998	88.00	124.00	30.00	66.88	102.70	117.73	119.99	699.41	4.469 (J)	[PC]
999	88.00	119.00	15.00	77.92	107.89	102.42	114.85	155.92	4.470 (J)	[A2M2]
1000	118.00	129.00	24.00	98.56	114.92	140.69	136.83	464.65	4.471 (J)	[A2M2]
1001	98.00	134.00	30.00	81.28	109.09	124.59	120.11	363.63	4.481 (J)	[A2M2]
1002	88.00	134.00	27.00	79.67	108.32	109.35	117.47	124.65	4.487 (J)	[PC]

1003	88.00	114.00	24.00	66.84	102.68	111.57	118.50	774.92	4.488 (J)	[A2M2]
1004	83.00	129.00	24.00	73.85	106.81	102.39	114.86	131.70	4.494 (J)	[PC]
1005	98.00	134.00	30.00	81.28	109.09	124.59	120.11	363.63	4.494 (J)	[A2M2]
1006	123.00	129.00	27.00	99.97	114.91	146.18	142.84	769.30	4.503 (J)	[PC]
1007	78.00	109.00	21.00	59.52	99.02	98.15	114.92	637.14	4.505 (J)	[PC]
1008	123.00	129.00	27.00	99.97	114.91	146.18	142.84	769.30	4.506 (J)	[PC]
1009	98.00	129.00	30.00	76.94	107.63	126.66	120.15	595.10	4.508 (J)	[A2M2]
1010	118.00	129.00	24.00	98.56	114.92	140.69	136.83	464.65	4.512 (J)	[A2M2]
1011	123.00	144.00	21.00	139.43	130.93	143.89	141.83	17.17	4.514 (J)	[A2M2]
1012	88.00	134.00	27.00	79.67	108.32	109.35	117.47	124.65	4.520 (J)	[PC]
1013	98.00	129.00	24.00	83.27	110.05	120.26	120.04	280.07	4.522 (J)	[A2M2]
1014	83.00	119.00	24.00	65.85	102.21	106.85	116.28	485.99	4.528 (J)	[PC]
1015	98.00	129.00	30.00	76.94	107.63	126.66	120.15	595.10	4.528 (J)	[A2M2]
1016	118.00	144.00	27.00	110.57	118.04	130.78	120.22	41.66	4.533 (J)	[PC]
1017	93.00	119.00	21.00	75.58	107.27	113.99	119.61	452.78	4.536 (J)	[A2M2]
1018	83.00	114.00	30.00	57.69	97.89	112.59	118.97	1133.01	4.537 (J)	[PC]
1019	88.00	129.00	30.00	70.44	104.68	116.60	119.95	459.08	4.538 (J)	[PC]
1020	88.00	119.00	18.00	74.58	107.01	105.70	115.74	260.20	4.538 (J)	[A2M2]
1021	83.00	129.00	24.00	73.85	106.81	102.39	114.86	131.70	4.542 (J)	[PC]
1022	83.00	119.00	24.00	65.85	102.21	106.85	116.28	485.99	4.542 (J)	[PC]
1023	98.00	129.00	24.00	83.27	110.05	120.26	120.04	280.07	4.543 (J)	[A2M2]
1024	88.00	129.00	30.00	70.44	104.68	116.60	119.95	459.08	4.543 (J)	[PC]
1025	98.00	124.00	30.00	73.48	106.71	127.75	120.16	851.87	4.544 (J)	[A2M2]
1026	88.00	119.00	18.00	74.58	107.01	105.70	115.74	260.20	4.548 (J)	[A2M2]
1027	83.00	124.00	21.00	72.29	105.93	101.91	114.87	177.16	4.549 (J)	[PC]
1028	83.00	119.00	18.00	71.30	105.32	100.53	114.90	217.02	4.550 (J)	[PC]
1029	93.00	119.00	21.00	75.58	107.27	113.99	119.61	452.78	4.551 (J)	[A2M2]
1030	93.00	119.00	6.00	90.56	113.52	97.41	114.93	8.03	4.553 (J)	[PC]
1031	83.00	119.00	18.00	71.30	105.32	100.53	114.90	217.02	4.573 (J)	[PC]
1032	123.00	149.00	24.00	139.57	131.64	146.20	142.84	27.10	4.582 (J)	[PC]
1033	83.00	124.00	21.00	72.29	105.93	101.91	114.87	177.16	4.583 (J)	[PC]
1034	98.00	124.00	30.00	73.48	106.71	127.75	120.16	851.87	4.590 (J)	[A2M2]
1035	83.00	114.00	30.00	57.69	97.89	112.59	118.97	1133.01	4.593 (J)	[PC]
1036	98.00	129.00	27.00	80.29	108.62	123.49	120.09	425.45	4.598 (J)	[A2M2]
1037	98.00	124.00	27.00	76.60	107.54	124.72	120.11	652.44	4.599 (J)	[A2M2]
1038	98.00	129.00	27.00	80.29	108.62	123.49	120.09	425.45	4.600 (J)	[A2M2]
1039	93.00	124.00	21.00	79.17	108.19	113.49	119.38	272.12	4.609 (J)	[A2M2]
1040	93.00	134.00	21.00	89.92	113.23	101.67	114.87	13.89	4.609 (J)	[A2M2]
1041	93.00	119.00	6.00	90.56	113.52	97.41	114.93	8.03	4.614 (J)	[PC]
1042	83.00	124.00	24.00	69.45	104.19	105.50	115.64	293.55	4.629 (J)	[PC]
1043	98.00	124.00	27.00	76.60	107.54	124.72	120.11	652.44	4.629 (J)	[A2M2]
1044	93.00	124.00	21.00	79.17	108.19	113.49	119.38	272.12	4.630 (J)	[A2M2]
1045	78.00	109.00	18.00	62.18	100.42	94.99	114.94	463.74	4.630 (J)	[PC]
1046	103.00	134.00	27.00	87.35	112.00	126.17	120.14	269.24	4.633 (J)	[A2M2]
1047	118.00	144.00	27.00	110.57	118.04	130.78	120.22	41.66	4.637 (J)	[PC]
1048	93.00	134.00	21.00	89.92	113.23	101.67	114.87	13.89	4.640 (J)	[A2M2]
1049	83.00	124.00	24.00	69.45	104.19	105.50	115.64	293.55	4.641 (J)	[PC]
1050	88.00	119.00	30.00	63.82	101.25	117.98	120.00	958.56	4.643 (J)	[PC]
1051	83.00	119.00	21.00	68.59	103.72	103.58	114.82	338.79	4.645 (J)	[PC]
1052	83.00	119.00	21.00	68.59	103.72	103.58	114.82	338.79	4.649 (J)	[PC]
1053	98.00	129.00	21.00	86.35	111.53	116.96	119.96	160.01	4.658 (J)	[PC]

1054	103.00	134.00	27.00	87.35	112.00	126.17	120.14	269.24	4.660 (J)	[A2M2]
1055	88.00	124.00	27.00	69.58	104.26	114.68	119.88	513.95	4.664 (J)	[PC]
1056	88.00	114.00	12.00	77.71	107.83	99.97	114.91	179.70	4.673 (J)	[A2M2]
1057	103.00	129.00	21.00	89.41	112.99	122.01	120.07	198.62	4.676 (J)	[PC]
1058	78.00	109.00	18.00	62.18	100.42	94.99	114.94	463.74	4.677 (J)	[PC]
1059	83.00	114.00	27.00	60.26	99.44	109.75	117.66	900.56	4.677 (J)	[PC]
1060	83.00	114.00	12.00	73.47	106.71	94.96	114.94	141.24	4.679 (J)	[PC]
1061	88.00	124.00	27.00	69.58	104.26	114.68	119.88	513.95	4.679 (J)	[PC]
1062	88.00	119.00	30.00	63.82	101.25	117.98	120.00	958.56	4.684 (J)	[PC]
1063	88.00	114.00	21.00	69.43	104.19	108.76	117.19	585.82	4.688 (J)	[A2M2]
1064	88.00	119.00	27.00	66.59	102.55	114.99	119.89	747.87	4.694 (J)	[PC]
1065	98.00	129.00	21.00	86.35	111.53	116.96	119.96	160.01	4.697 (J)	[PC]
1066	88.00	114.00	12.00	77.71	107.83	99.97	114.91	179.70	4.698 (J)	[A2M2]
1067	103.00	129.00	21.00	89.41	112.99	122.01	120.07	198.62	4.701 (J)	[PC]
1068	83.00	129.00	27.00	70.78	104.93	106.81	116.26	241.43	4.704 (J)	[PC]
1069	83.00	114.00	12.00	73.47	106.71	94.96	114.94	141.24	4.719 (J)	[PC]
1070	88.00	114.00	21.00	69.43	104.19	108.76	117.19	585.82	4.722 (J)	[A2M2]
1071	83.00	114.00	27.00	60.26	99.44	109.75	117.66	900.56	4.722 (J)	[PC]
1072	83.00	129.00	27.00	70.78	104.93	106.81	116.26	241.43	4.727 (J)	[PC]
1073	88.00	119.00	27.00	66.59	102.55	114.99	119.89	747.87	4.730 (J)	[PC]
1074	98.00	124.00	24.00	79.78	108.37	121.67	120.06	477.26	4.754 (J)	[A2M2]
1075	98.00	124.00	24.00	79.78	108.37	121.67	120.06	477.26	4.763 (J)	[A2M2]
1076	78.00	109.00	9.00	70.18	104.55	86.60	111.64	109.28	4.764 (J)	[A2M2]
1077	78.00	109.00	9.00	70.18	104.55	86.60	111.64	109.28	4.768 (J)	[A2M2]
1078	123.00	144.00	21.00	139.43	130.93	143.89	141.83	17.17	4.775 (J)	[A2M2]
1079	108.00	119.00	12.00	96.71	114.93	119.96	120.03	181.89	4.777 (J)	[A2M2]
1080	113.00	129.00	30.00	88.05	112.34	141.20	139.23	803.39	4.781 (J)	[A2M2]
1081	113.00	129.00	30.00	88.05	112.34	141.20	139.23	803.39	4.784 (J)	[A2M2]
1082	123.00	129.00	24.00	103.63	114.82	143.42	141.62	542.99	4.788 (J)	[PC]
1083	108.00	119.00	12.00	96.71	114.93	119.96	120.03	181.89	4.802 (J)	[A2M2]
1084	98.00	124.00	21.00	82.60	109.72	118.62	120.01	327.01	4.803 (J)	[A2M2]
1085	123.00	129.00	24.00	103.63	114.82	143.42	141.62	542.99	4.807 (J)	[PC]
1086	83.00	114.00	24.00	62.95	100.81	106.89	116.30	695.82	4.809 (J)	[PC]
1087	98.00	124.00	21.00	82.60	109.72	118.62	120.01	327.01	4.814 (J)	[A2M2]
1088	93.00	134.00	27.00	81.90	109.39	116.05	119.93	175.59	4.822 (J)	[PC]
1089	83.00	134.00	30.00	72.34	105.96	107.40	116.54	185.45	4.823 (J)	[PC]
1090	98.00	119.00	27.00	73.90	106.83	124.98	120.12	900.40	4.834 (J)	[A2M2]
1091	98.00	119.00	30.00	71.30	105.33	127.98	120.17	1125.31	4.839 (J)	[A2M2]
1092	83.00	114.00	24.00	62.95	100.81	106.89	116.30	695.82	4.841 (J)	[PC]
1093	83.00	114.00	18.00	68.36	103.52	100.98	114.89	371.98	4.850 (J)	[PC]
1094	83.00	114.00	21.00	65.68	102.13	103.98	114.92	521.93	4.852 (J)	[PC]
1095	83.00	114.00	18.00	68.36	103.52	100.98	114.89	371.98	4.855 (J)	[PC]
1096	83.00	134.00	30.00	72.34	105.96	107.40	116.54	185.45	4.861 (J)	[PC]
1097	78.00	109.00	15.00	64.87	101.75	92.07	114.21	316.97	4.865 (J)	[PC]
1098	93.00	134.00	27.00	81.90	109.39	116.05	119.93	175.59	4.865 (J)	[PC]
1099	83.00	114.00	21.00	65.68	102.13	103.98	114.92	521.93	4.872 (J)	[PC]
1100	98.00	119.00	27.00	73.90	106.83	124.98	120.12	900.40	4.888 (J)	[A2M2]
1101	118.00	129.00	30.00	91.93	114.15	144.90	142.27	912.72	4.891 (J)	[PC]
1102	83.00	114.00	15.00	70.95	105.07	97.97	114.92	244.58	4.893 (J)	[PC]
1103	118.00	129.00	30.00	91.93	114.15	144.90	142.27	912.72	4.895 (J)	[PC]
1104	98.00	119.00	30.00	71.30	105.33	127.98	120.17	1125.31	4.900 (J)	[A2M2]

1105	78.00	109.00	15.00	64.87	101.75	92.07	114.21	316.97	4.903 (J)	[PC]
1106	88.00	124.00	18.00	79.33	108.23	103.49	114.83	121.11	4.906 (J)	[PC]
1107	83.00	114.00	15.00	70.95	105.07	97.97	114.92	244.58	4.912 (J)	[PC]
1108	98.00	119.00	24.00	76.87	107.61	121.98	120.07	693.70	4.913 (J)	[A2M2]
1109	93.00	124.00	18.00	82.25	109.56	109.87	117.71	157.55	4.920 (J)	[A2M2]
1110	113.00	134.00	30.00	90.92	113.69	142.16	141.06	559.61	4.926 (J)	[PC]
1111	88.00	134.00	30.00	74.79	107.06	114.44	119.82	243.45	4.928 (J)	[PC]
1112	88.00	114.00	15.00	74.71	107.04	102.98	114.84	288.25	4.933 (J)	[A2M2]
1113	88.00	114.00	15.00	74.71	107.04	102.98	114.84	288.25	4.934 (J)	[A2M2]
1114	88.00	124.00	18.00	79.33	108.23	103.49	114.83	121.11	4.944 (J)	[PC]
1115	118.00	134.00	21.00	106.78	116.25	136.67	124.39	134.07	4.947 (J)	[PC]
1116	88.00	114.00	18.00	72.00	105.75	105.91	115.83	422.94	4.952 (J)	[A2M2]
1117	93.00	124.00	18.00	82.25	109.56	109.87	117.71	157.55	4.953 (J)	[A2M2]
1118	98.00	119.00	24.00	76.87	107.61	121.98	120.07	693.70	4.953 (J)	[A2M2]
1119	88.00	129.00	27.00	73.12	106.47	113.17	119.24	301.08	4.953 (J)	[PC]
1120	88.00	134.00	30.00	74.79	107.06	114.44	119.82	243.45	4.962 (J)	[PC]
1121	88.00	129.00	27.00	73.12	106.47	113.17	119.24	301.08	4.970 (J)	[PC]
1122	88.00	114.00	18.00	72.00	105.75	105.91	115.83	422.94	4.970 (J)	[A2M2]
1123	93.00	129.00	30.00	73.16	106.50	121.64	120.06	530.89	4.976 (J)	[PC]
1124	113.00	134.00	30.00	90.92	113.69	142.16	141.06	559.61	4.983 (J)	[PC]
1125	123.00	129.00	21.00	106.44	116.09	141.24	139.41	359.68	4.983 (J)	[PC]
1126	93.00	124.00	30.00	70.16	104.54	122.74	120.08	781.91	4.985 (J)	[PC]
1127	93.00	129.00	30.00	73.16	106.50	121.64	120.06	530.89	4.990 (J)	[PC]
1128	118.00	134.00	21.00	106.78	116.25	136.67	124.39	134.07	4.993 (J)	[PC]
1129	98.00	119.00	9.00	90.78	113.62	106.53	116.13	54.93	4.997 (J)	[A2M2]
1130	88.00	119.00	24.00	69.21	104.07	112.00	118.70	556.35	5.013 (J)	[PC]
1131	123.00	129.00	21.00	106.44	116.09	141.24	139.41	359.68	5.022 (J)	[PC]
1132	93.00	124.00	30.00	70.16	104.54	122.74	120.08	781.91	5.026 (J)	[PC]
1133	93.00	119.00	18.00	78.69	108.08	110.98	118.23	307.65	5.028 (J)	[A2M2]
1134	93.00	119.00	18.00	78.69	108.08	110.98	118.23	307.65	5.033 (J)	[A2M2]
1135	108.00	129.00	21.00	92.78	114.54	127.05	120.15	230.39	5.037 (J)	[PC]
1136	88.00	119.00	24.00	69.21	104.07	112.00	118.70	556.35	5.038 (J)	[PC]
1137	108.00	129.00	21.00	92.78	114.54	127.05	120.15	230.39	5.048 (J)	[PC]
1138	88.00	124.00	24.00	72.24	105.90	111.34	118.40	353.21	5.051 (J)	[PC]
1139	88.00	124.00	24.00	72.24	105.90	111.34	118.40	353.21	5.053 (J)	[PC]
1140	108.00	134.00	27.00	90.46	113.47	131.22	120.22	306.50	5.055 (J)	[A2M2]
1141	108.00	134.00	27.00	90.46	113.47	131.22	120.22	306.50	5.067 (J)	[A2M2]
1142	88.00	114.00	30.00	61.44	100.05	117.40	119.98	1234.72	5.082 (J)	[PC]
1143	93.00	124.00	27.00	72.71	106.19	119.71	120.03	587.21	5.083 (J)	[PC]
1144	93.00	134.00	30.00	78.13	107.94	119.55	120.03	305.81	5.087 (J)	[PC]
1145	98.00	119.00	9.00	90.78	113.62	106.53	116.13	54.93	5.089 (J)	[A2M2]
1146	98.00	124.00	12.00	91.47	113.93	107.40	116.54	31.00	5.097 (J)	[A2M2]
1147	93.00	129.00	27.00	76.61	107.54	118.46	120.01	365.59	5.107 (J)	[PC]
1148	98.00	119.00	21.00	79.86	108.41	118.98	120.02	514.74	5.107 (J)	[A2M2]
1149	118.00	124.00	9.00	111.06	118.27	126.13	120.14	53.58	5.108 (J)	[PC]
1150	93.00	124.00	27.00	72.71	106.19	119.71	120.03	587.21	5.108 (J)	[PC]
1151	98.00	124.00	18.00	85.45	111.09	115.53	119.91	200.91	5.114 (J)	[A2M2]
1152	93.00	134.00	30.00	78.13	107.94	119.55	120.03	305.81	5.115 (J)	[PC]
1153	93.00	129.00	27.00	76.61	107.54	118.46	120.01	365.59	5.118 (J)	[PC]
1154	98.00	119.00	21.00	79.86	108.41	118.98	120.02	514.74	5.129 (J)	[A2M2]
1155	88.00	114.00	30.00	61.44	100.05	117.40	119.98	1234.72	5.156 (J)	[PC]

1156	98.00	124.00	18.00	85.45	111.09	115.53	119.91	200.91	5.157 (J)	[A2M2]
1157	98.00	124.00	12.00	91.47	113.93	107.40	116.54	31.00	5.160 (J)	[A2M2]
1158	118.00	129.00	12.00	111.91	118.66	126.09	120.14	29.65	5.178 (J)	[PC]
1159	103.00	124.00	18.00	88.94	112.76	120.56	120.04	241.10	5.182 (J)	[A2M2]
1160	93.00	119.00	30.00	67.60	103.04	122.98	120.08	1050.38	5.201 (J)	[PC]
1161	103.00	124.00	18.00	88.94	112.76	120.56	120.04	241.10	5.211 (J)	[A2M2]
1162	118.00	124.00	9.00	111.06	118.27	126.13	120.14	53.58	5.223 (J)	[PC]
1163	93.00	124.00	24.00	75.75	107.32	116.66	119.95	416.08	5.225 (J)	[PC]
1164	103.00	134.00	30.00	84.30	110.54	129.64	120.20	415.00	5.228 (J)	[A2M2]
1165	93.00	124.00	24.00	75.75	107.32	116.66	119.95	416.08	5.228 (J)	[PC]
1166	103.00	134.00	30.00	84.30	110.54	129.64	120.20	415.00	5.232 (J)	[A2M2]
1167	103.00	124.00	30.00	77.73	107.84	132.76	120.25	917.95	5.242 (J)	[A2M2]
1168	103.00	129.00	30.00	80.78	108.85	131.69	120.23	655.17	5.251 (J)	[A2M2]
1169	93.00	119.00	30.00	67.60	103.04	122.98	120.08	1050.38	5.260 (J)	[PC]
1170	93.00	119.00	27.00	70.19	104.56	119.98	120.03	827.94	5.280 (J)	[PC]
1171	103.00	129.00	30.00	80.78	108.85	131.69	120.23	655.17	5.282 (J)	[A2M2]
1172	113.00	134.00	27.00	93.87	114.95	138.26	124.45	349.15	5.284 (J)	[A2M2]
1173	103.00	124.00	30.00	77.73	107.84	132.76	120.25	917.95	5.303 (J)	[A2M2]
1174	88.00	114.00	27.00	64.12	101.39	114.37	119.79	990.73	5.303 (J)	[PC]
1175	118.00	129.00	12.00	111.91	118.66	126.09	120.14	29.65	5.303 (J)	[PC]
1176	93.00	129.00	24.00	80.31	108.63	115.21	119.90	227.02	5.310 (J)	[PC]
1177	103.00	129.00	27.00	83.61	110.21	128.52	120.18	478.62	5.311 (J)	[A2M2]
1178	123.00	124.00	15.00	109.47	117.53	137.99	124.44	244.15	5.317 (J)	[A2M2]
1179	103.00	129.00	27.00	83.61	110.21	128.52	120.18	478.62	5.323 (J)	[A2M2]
1180	93.00	119.00	27.00	70.19	104.56	119.98	120.03	827.94	5.330 (J)	[PC]
1181	78.00	109.00	12.00	67.59	103.04	89.33	112.95	199.85	5.337 (J)	[PC]
1182	113.00	134.00	27.00	93.87	114.95	138.26	124.45	349.15	5.344 (J)	[A2M2]
1183	103.00	129.00	24.00	86.48	111.59	125.30	120.12	326.46	5.345 (J)	[A2M2]
1184	93.00	129.00	24.00	80.31	108.63	115.21	119.90	227.02	5.347 (J)	[PC]
1185	98.00	119.00	18.00	82.58	109.71	115.98	119.93	359.39	5.354 (J)	[A2M2]
1186	78.00	109.00	12.00	67.59	103.04	89.33	112.95	199.85	5.355 (J)	[PC]
1187	98.00	119.00	18.00	82.58	109.71	115.98	119.93	359.39	5.356 (J)	[A2M2]
1188	103.00	129.00	24.00	86.48	111.59	125.30	120.12	326.46	5.365 (J)	[A2M2]
1189	88.00	119.00	21.00	71.80	105.63	108.93	117.27	394.76	5.367 (J)	[PC]
1190	93.00	129.00	21.00	83.62	110.21	111.05	118.26	117.09	5.367 (J)	[PC]
1191	88.00	114.00	27.00	64.12	101.39	114.37	119.79	990.73	5.371 (J)	[PC]
1192	88.00	119.00	21.00	71.80	105.63	108.93	117.27	394.76	5.377 (J)	[PC]
1193	118.00	129.00	27.00	94.95	114.94	142.16	141.06	659.42	5.380 (J)	[PC]
1194	118.00	129.00	27.00	94.95	114.94	142.16	141.06	659.42	5.393 (J)	[PC]
1195	123.00	124.00	15.00	109.47	117.53	137.99	124.44	244.15	5.401 (J)	[A2M2]
1196	88.00	114.00	9.00	80.66	108.79	96.95	114.93	96.63	5.409 (J)	[PC]
1197	108.00	124.00	18.00	92.71	114.50	125.58	120.13	273.17	5.417 (J)	[A2M2]
1198	93.00	129.00	21.00	83.62	110.21	111.05	118.26	117.09	5.422 (J)	[PC]
1199	93.00	119.00	24.00	72.71	106.19	116.98	119.96	627.64	5.432 (J)	[PC]
1200	108.00	124.00	18.00	92.71	114.50	125.58	120.13	273.17	5.432 (J)	[A2M2]
1201	103.00	124.00	27.00	80.68	108.80	129.73	120.20	711.14	5.434 (J)	[A2M2]
1202	118.00	139.00	21.00	112.23	118.81	127.27	120.16	20.96	5.443 (J)	[PC]
1203	103.00	119.00	12.00	92.01	114.18	114.97	119.89	156.17	5.448 (J)	[A2M2]
1204	88.00	129.00	24.00	77.03	107.65	108.94	117.27	173.96	5.458 (J)	[PC]
1205	93.00	119.00	24.00	72.71	106.19	116.98	119.96	627.64	5.468 (J)	[PC]
1206	98.00	134.00	27.00	84.48	110.63	121.12	120.05	225.55	5.469 (J)	[PC]

1207	113.00	129.00	21.00	97.41	114.93	132.08	120.24	256.91	5.471 (J)	[PC]
1208	88.00	114.00	9.00	80.66	108.79	96.95	114.93	96.63	5.473 (J)	[PC]
1209	113.00	129.00	21.00	97.41	114.93	132.08	120.24	256.91	5.474 (J)	[PC]
1210	103.00	124.00	27.00	80.68	108.80	129.73	120.20	711.14	5.476 (J)	[A2M2]
1211	103.00	119.00	12.00	92.01	114.18	114.97	119.89	156.17	5.481 (J)	[A2M2]
1212	103.00	119.00	30.00	75.41	107.23	132.97	120.25	1200.27	5.486 (J)	[A2M2]
1213	88.00	129.00	24.00	77.03	107.65	108.94	117.27	173.96	5.507 (J)	[PC]
1214	88.00	124.00	21.00	75.38	107.22	107.68	116.68	220.64	5.507 (J)	[PC]
1215	98.00	134.00	27.00	84.48	110.63	121.12	120.05	225.55	5.521 (J)	[PC]
1216	123.00	129.00	15.00	112.07	118.73	137.28	124.42	109.03	5.531 (J)	[A2M2]
1217	123.00	134.00	18.00	112.89	119.11	138.26	124.45	72.35	5.531 (J)	[A2M2]
1218	103.00	124.00	24.00	83.42	110.12	126.69	120.15	530.39	5.537 (J)	[A2M2]
1219	88.00	124.00	21.00	75.38	107.22	107.68	116.68	220.64	5.537 (J)	[PC]
1220	88.00	119.00	15.00	77.92	107.89	102.42	114.85	155.92	5.539 (J)	[PC]
1221	88.00	114.00	24.00	66.84	102.68	111.57	118.50	774.92	5.553 (J)	[PC]
1222	103.00	124.00	24.00	83.42	110.12	126.69	120.15	530.39	5.561 (J)	[A2M2]
1223	103.00	119.00	30.00	75.41	107.23	132.97	120.25	1200.27	5.572 (J)	[A2M2]
1224	118.00	139.00	21.00	112.23	118.81	127.27	120.16	20.96	5.573 (J)	[PC]
1225	88.00	119.00	15.00	77.92	107.89	102.42	114.85	155.92	5.586 (J)	[PC]
1226	118.00	129.00	24.00	98.56	114.92	140.69	136.83	464.65	5.587 (J)	[PC]
1227	98.00	134.00	30.00	81.28	109.09	124.59	120.11	363.63	5.600 (J)	[PC]
1228	88.00	114.00	24.00	66.84	102.68	111.57	118.50	774.92	5.610 (J)	[PC]
1229	98.00	134.00	30.00	81.28	109.09	124.59	120.11	363.63	5.616 (J)	[PC]
1230	123.00	129.00	15.00	112.07	118.73	137.28	124.42	109.03	5.631 (J)	[A2M2]
1231	98.00	129.00	30.00	76.94	107.63	126.66	120.15	595.10	5.634 (J)	[PC]
1232	118.00	129.00	24.00	98.56	114.92	140.69	136.83	464.65	5.639 (J)	[PC]
1233	123.00	144.00	21.00	139.43	130.93	143.89	141.83	17.17	5.642 (J)	[PC]
1234	123.00	134.00	18.00	112.89	119.11	138.26	124.45	72.35	5.648 (J)	[A2M2]
1235	98.00	129.00	24.00	83.27	110.05	120.26	120.04	280.07	5.650 (J)	[PC]
1236	98.00	129.00	30.00	76.94	107.63	126.66	120.15	595.10	5.658 (J)	[PC]
1237	93.00	119.00	21.00	75.58	107.27	113.99	119.61	452.78	5.668 (J)	[PC]
1238	88.00	119.00	18.00	74.58	107.01	105.70	115.74	260.20	5.671 (J)	[PC]
1239	98.00	129.00	24.00	83.27	110.05	120.26	120.04	280.07	5.676 (J)	[PC]
1240	98.00	124.00	30.00	73.48	106.71	127.75	120.16	851.87	5.679 (J)	[PC]
1241	113.00	129.00	27.00	90.80	113.63	139.77	132.54	587.66	5.681 (J)	[A2M2]
1242	88.00	119.00	18.00	74.58	107.01	105.70	115.74	260.20	5.683 (J)	[PC]
1243	93.00	119.00	21.00	75.58	107.27	113.99	119.61	452.78	5.686 (J)	[PC]
1244	103.00	119.00	27.00	78.34	108.00	129.97	120.20	960.96	5.716 (J)	[A2M2]
1245	93.00	119.00	15.00	81.60	109.25	107.83	116.75	190.77	5.717 (J)	[A2M2]
1246	113.00	124.00	18.00	97.45	114.93	130.60	120.21	299.45	5.717 (J)	[A2M2]
1247	113.00	124.00	18.00	97.45	114.93	130.60	120.21	299.45	5.718 (J)	[A2M2]
1248	113.00	124.00	30.00	85.83	111.27	140.51	135.98	1056.97	5.719 (J)	[A2M2]
1249	103.00	124.00	21.00	86.17	111.44	123.63	120.10	373.77	5.719 (J)	[A2M2]
1250	103.00	124.00	21.00	86.17	111.44	123.63	120.10	373.77	5.723 (J)	[A2M2]
1251	113.00	129.00	27.00	90.80	113.63	139.77	132.54	587.66	5.730 (J)	[A2M2]
1252	98.00	124.00	30.00	73.48	106.71	127.75	120.16	851.87	5.737 (J)	[PC]
1253	93.00	119.00	15.00	81.60	109.25	107.83	116.75	190.77	5.745 (J)	[A2M2]
1254	98.00	129.00	27.00	80.29	108.62	123.49	120.09	425.45	5.747 (J)	[PC]
1255	98.00	124.00	27.00	76.60	107.54	124.72	120.11	652.44	5.748 (J)	[PC]
1256	98.00	129.00	27.00	80.29	108.62	123.49	120.09	425.45	5.749 (J)	[PC]
1257	93.00	124.00	21.00	79.17	108.19	113.49	119.38	272.12	5.759 (J)	[PC]

1258	93.00	134.00	21.00	89.92	113.23	101.67	114.87	13.89	5.761 (J)	[PC]
1259	118.00	129.00	21.00	102.48	114.85	138.95	127.56	298.52	5.769 (J)	[A2M2]
1260	113.00	124.00	30.00	85.83	111.27	140.51	135.98	1056.97	5.776 (J)	[A2M2]
1261	103.00	119.00	27.00	78.34	108.00	129.97	120.20	960.96	5.784 (J)	[A2M2]
1262	93.00	124.00	21.00	79.17	108.19	113.49	119.38	272.12	5.786 (J)	[PC]
1263	98.00	124.00	27.00	76.60	107.54	124.72	120.11	652.44	5.786 (J)	[PC]
1264	103.00	134.00	27.00	87.35	112.00	126.17	120.14	269.24	5.787 (J)	[PC]
1265	93.00	134.00	21.00	89.92	113.23	101.67	114.87	13.89	5.800 (J)	[PC]
1266	103.00	134.00	27.00	87.35	112.00	126.17	120.14	269.24	5.821 (J)	[PC]
1267	118.00	124.00	24.00	95.78	114.94	140.00	133.60	668.60	5.821 (J)	[A2M2]
1268	118.00	124.00	24.00	95.78	114.94	140.00	133.60	668.60	5.837 (J)	[A2M2]
1269	108.00	119.00	30.00	79.92	108.44	137.51	124.42	1274.19	5.839 (J)	[A2M2]
1270	88.00	114.00	12.00	77.71	107.83	99.97	114.91	179.70	5.840 (J)	[PC]
1271	108.00	129.00	24.00	89.91	113.22	130.33	120.21	364.99	5.849 (J)	[A2M2]
1272	108.00	129.00	24.00	89.91	113.22	130.33	120.21	364.99	5.852 (J)	[A2M2]
1273	88.00	114.00	21.00	69.43	104.19	108.76	117.19	585.82	5.859 (J)	[PC]
1274	88.00	114.00	12.00	77.71	107.83	99.97	114.91	179.70	5.871 (J)	[PC]
1275	118.00	129.00	21.00	102.48	114.85	138.95	127.56	298.52	5.887 (J)	[A2M2]
1276	88.00	114.00	21.00	69.43	104.19	108.76	117.19	585.82	5.900 (J)	[PC]
1277	118.00	124.00	21.00	99.07	114.92	138.83	126.70	489.49	5.910 (J)	[A2M2]
1278	108.00	119.00	30.00	79.92	108.44	137.51	124.42	1274.19	5.911 (J)	[A2M2]
1279	118.00	149.00	30.00	113.42	119.35	126.19	120.14	9.05	5.938 (J)	[A2M2]
1280	98.00	124.00	24.00	79.78	108.37	121.67	120.06	477.26	5.941 (J)	[PC]
1281	108.00	124.00	30.00	81.82	109.35	138.00	124.44	993.46	5.948 (J)	[A2M2]
1282	98.00	124.00	24.00	79.78	108.37	121.67	120.06	477.26	5.952 (J)	[PC]
1283	118.00	124.00	21.00	99.07	114.92	138.83	126.70	489.49	5.954 (J)	[A2M2]
1284	78.00	109.00	9.00	70.18	104.55	86.60	111.64	109.28	5.955 (J)	[PC]
1285	98.00	119.00	15.00	85.30	111.02	113.00	119.16	229.15	5.956 (J)	[A2M2]
1286	108.00	124.00	30.00	81.82	109.35	138.00	124.44	993.46	5.958 (J)	[A2M2]
1287	78.00	109.00	9.00	70.18	104.55	86.60	111.64	109.28	5.960 (J)	[PC]
1288	103.00	119.00	24.00	81.17	109.04	126.97	120.15	750.33	5.967 (J)	[A2M2]
1289	123.00	144.00	21.00	139.43	130.93	143.89	141.83	17.17	5.968 (J)	[PC]
1290	108.00	119.00	12.00	96.71	114.93	119.96	120.03	181.89	5.969 (J)	[PC]
1291	98.00	119.00	15.00	85.30	111.02	113.00	119.16	229.15	5.973 (J)	[A2M2]
1292	113.00	129.00	30.00	88.05	112.34	141.20	139.23	803.39	5.975 (J)	[PC]
1293	113.00	129.00	30.00	88.05	112.34	141.20	139.23	803.39	5.978 (J)	[PC]
1294	113.00	124.00	27.00	88.54	112.57	139.31	130.07	832.66	5.983 (J)	[A2M2]
1295	113.00	124.00	27.00	88.54	112.57	139.31	130.07	832.66	5.999 (J)	[A2M2]
1296	108.00	119.00	12.00	96.71	114.93	119.96	120.03	181.89	5.999 (J)	[PC]
1297	123.00	124.00	18.00	106.76	116.24	139.49	131.23	374.54	6.004 (J)	[A2M2]
1298	98.00	124.00	21.00	82.60	109.72	118.62	120.01	327.01	6.004 (J)	[PC]
1299	108.00	129.00	30.00	84.34	110.56	137.65	124.43	720.21	6.010 (J)	[A2M2]
1300	98.00	124.00	21.00	82.60	109.72	118.62	120.01	327.01	6.017 (J)	[PC]
1301	103.00	119.00	24.00	81.17	109.04	126.97	120.15	750.33	6.018 (J)	[A2M2]
1302	108.00	129.00	30.00	84.34	110.56	137.65	124.43	720.21	6.021 (J)	[A2M2]
1303	123.00	124.00	18.00	106.76	116.24	139.49	131.23	374.54	6.027 (J)	[A2M2]
1304	98.00	119.00	27.00	73.90	106.83	124.98	120.12	900.40	6.040 (J)	[PC]
1305	123.00	124.00	30.00	94.40	114.95	146.30	142.89	1198.13	6.044 (J)	[A2M2]
1306	98.00	119.00	30.00	71.30	105.33	127.98	120.17	1125.31	6.045 (J)	[PC]
1307	118.00	149.00	30.00	113.42	119.35	126.19	120.14	9.05	6.071 (J)	[A2M2]
1308	93.00	119.00	12.00	84.43	110.60	104.35	115.09	103.42	6.071 (J)	[A2M2]

1309	103.00	119.00	21.00	83.87	110.33	123.97	120.10	566.82	6.099 (J)	[A2M2]
1310	98.00	119.00	27.00	73.90	106.83	124.98	120.12	900.40	6.107 (J)	[PC]
1311	93.00	119.00	12.00	84.43	110.60	104.35	115.09	103.42	6.117 (J)	[A2M2]
1312	108.00	134.00	30.00	87.52	112.08	136.42	124.38	465.26	6.117 (J)	[A2M2]
1313	98.00	119.00	30.00	71.30	105.33	127.98	120.17	1125.31	6.121 (J)	[PC]
1314	103.00	119.00	21.00	83.87	110.33	123.97	120.10	566.82	6.136 (J)	[A2M2]
1315	123.00	124.00	30.00	94.40	114.95	146.30	142.89	1198.13	6.140 (J)	[A2M2]
1316	98.00	119.00	24.00	76.87	107.61	121.98	120.07	693.70	6.140 (J)	[PC]
1317	93.00	124.00	18.00	82.25	109.56	109.87	117.71	157.55	6.148 (J)	[PC]
1318	108.00	134.00	30.00	87.52	112.08	136.42	124.38	465.26	6.150 (J)	[A2M2]
1319	88.00	114.00	15.00	74.71	107.04	102.98	114.84	288.25	6.164 (J)	[PC]
1320	88.00	114.00	15.00	74.71	107.04	102.98	114.84	288.25	6.166 (J)	[PC]
1321	88.00	114.00	18.00	72.00	105.75	105.91	115.83	422.94	6.188 (J)	[PC]
1322	93.00	124.00	18.00	82.25	109.56	109.87	117.71	157.55	6.189 (J)	[PC]
1323	98.00	119.00	24.00	76.87	107.61	121.98	120.07	693.70	6.190 (J)	[PC]
1324	88.00	114.00	18.00	72.00	105.75	105.91	115.83	422.94	6.210 (J)	[PC]
1325	98.00	119.00	9.00	90.78	113.62	106.53	116.13	54.93	6.246 (J)	[PC]
1326	123.00	134.00	15.00	117.65	119.99	128.84	120.18	8.16	6.248 (J)	[A2M2]
1327	93.00	119.00	18.00	78.69	108.08	110.98	118.23	307.65	6.282 (J)	[PC]
1328	93.00	119.00	18.00	78.69	108.08	110.98	118.23	307.65	6.290 (J)	[PC]
1329	108.00	129.00	27.00	87.11	111.89	133.55	120.26	524.35	6.290 (J)	[A2M2]
1330	108.00	129.00	27.00	87.11	111.89	133.55	120.26	524.35	6.313 (J)	[A2M2]
1331	108.00	134.00	27.00	90.46	113.47	131.22	120.22	306.50	6.317 (J)	[PC]
1332	103.00	119.00	18.00	86.58	111.63	120.97	120.05	405.88	6.322 (J)	[A2M2]
1333	108.00	134.00	27.00	90.46	113.47	131.22	120.22	306.50	6.331 (J)	[PC]
1334	103.00	119.00	18.00	86.58	111.63	120.97	120.05	405.88	6.339 (J)	[A2M2]
1335	98.00	119.00	9.00	90.78	113.62	106.53	116.13	54.93	6.361 (J)	[PC]
1336	98.00	124.00	12.00	91.47	113.93	107.40	116.54	31.00	6.371 (J)	[PC]
1337	113.00	129.00	24.00	93.58	114.90	136.55	124.39	402.77	6.380 (J)	[A2M2]
1338	98.00	119.00	21.00	79.86	108.41	118.98	120.02	514.74	6.383 (J)	[PC]
1339	103.00	119.00	15.00	89.28	112.93	117.97	120.00	268.16	6.386 (J)	[A2M2]
1340	98.00	124.00	18.00	85.45	111.09	115.53	119.91	200.91	6.391 (J)	[PC]
1341	103.00	119.00	15.00	89.28	112.93	117.97	120.00	268.16	6.402 (J)	[A2M2]
1342	98.00	119.00	21.00	79.86	108.41	118.98	120.02	514.74	6.409 (J)	[PC]
1343	113.00	129.00	24.00	93.58	114.90	136.55	124.39	402.77	6.436 (J)	[A2M2]
1344	98.00	124.00	18.00	85.45	111.09	115.53	119.91	200.91	6.444 (J)	[PC]
1345	98.00	124.00	12.00	91.47	113.93	107.40	116.54	31.00	6.450 (J)	[PC]
1346	103.00	124.00	18.00	88.94	112.76	120.56	120.04	241.10	6.475 (J)	[PC]
1347	108.00	124.00	21.00	89.96	113.25	128.65	120.18	412.04	6.497 (J)	[A2M2]
1348	108.00	124.00	21.00	89.96	113.25	128.65	120.18	412.04	6.510 (J)	[A2M2]
1349	103.00	124.00	18.00	88.94	112.76	120.56	120.04	241.10	6.511 (J)	[PC]
1350	123.00	124.00	21.00	104.05	114.95	140.44	135.69	520.11	6.530 (J)	[A2M2]
1351	103.00	134.00	30.00	84.30	110.54	129.64	120.20	415.00	6.532 (J)	[PC]
1352	123.00	134.00	15.00	117.65	119.99	128.84	120.18	8.16	6.534 (J)	[A2M2]
1353	103.00	134.00	30.00	84.30	110.54	129.64	120.20	415.00	6.537 (J)	[PC]
1354	103.00	124.00	30.00	77.73	107.84	132.76	120.25	917.95	6.550 (J)	[PC]
1355	123.00	124.00	21.00	104.05	114.95	140.44	135.69	520.11	6.558 (J)	[A2M2]
1356	103.00	129.00	30.00	80.78	108.85	131.69	120.23	655.17	6.561 (J)	[PC]
1357	123.00	139.00	21.00	114.44	119.82	132.45	120.24	25.47	6.574 (J)	[A2M2]
1358	103.00	129.00	30.00	80.78	108.85	131.69	120.23	655.17	6.600 (J)	[PC]
1359	113.00	134.00	27.00	93.87	114.95	138.26	124.45	349.15	6.602 (J)	[PC]

1360	118.00	124.00	27.00	92.72	114.51	140.98	138.18	866.74	6.624 (J) [A2M2]
1361	103.00	124.00	30.00	77.73	107.84	132.76	120.25	917.95	6.626 (J) [PC]
1362	103.00	129.00	27.00	83.61	110.21	128.52	120.18	478.62	6.636 (J) [PC]
1363	118.00	124.00	30.00	89.99	113.26	142.55	141.24	1103.77	6.636 (J) [A2M2]
1364	123.00	124.00	15.00	109.47	117.53	137.99	124.44	244.15	6.643 (J) [PC]
1365	103.00	129.00	27.00	83.61	110.21	128.52	120.18	478.62	6.651 (J) [PC]
1366	113.00	134.00	27.00	93.87	114.95	138.26	124.45	349.15	6.677 (J) [PC]
1367	103.00	129.00	24.00	86.48	111.59	125.30	120.12	326.46	6.679 (J) [PC]
1368	108.00	119.00	15.00	93.57	114.90	122.96	120.08	298.51	6.684 (J) [A2M2]
1369	108.00	119.00	15.00	93.57	114.90	122.96	120.08	298.51	6.685 (J) [A2M2]
1370	98.00	119.00	18.00	82.58	109.71	115.98	119.93	359.39	6.691 (J) [PC]
1371	98.00	119.00	18.00	82.58	109.71	115.98	119.93	359.39	6.692 (J) [PC]
1372	118.00	124.00	27.00	92.72	114.51	140.98	138.18	866.74	6.694 (J) [A2M2]
1373	103.00	129.00	24.00	86.48	111.59	125.30	120.12	326.46	6.705 (J) [PC]
1374	118.00	124.00	30.00	89.99	113.26	142.55	141.24	1103.77	6.738 (J) [A2M2]
1375	108.00	124.00	24.00	87.24	111.95	131.70	120.23	575.91	6.740 (J) [A2M2]
1376	123.00	124.00	15.00	109.47	117.53	137.99	124.44	244.15	6.749 (J) [PC]
1377	123.00	124.00	27.00	97.57	114.93	143.45	141.63	913.44	6.762 (J) [A2M2]
1378	123.00	149.00	30.00	115.64	119.92	131.50	120.23	11.58	6.764 (J) [A2M2]
1379	108.00	124.00	18.00	92.71	114.50	125.58	120.13	273.17	6.769 (J) [PC]
1380	108.00	124.00	24.00	87.24	111.95	131.70	120.23	575.91	6.780 (J) [A2M2]
1381	108.00	124.00	18.00	92.71	114.50	125.58	120.13	273.17	6.788 (J) [PC]
1382	103.00	124.00	27.00	80.68	108.80	129.73	120.20	711.14	6.789 (J) [PC]
1383	118.00	124.00	6.00	113.93	119.59	122.54	120.08	12.07	6.807 (J) [A2M2]
1384	103.00	119.00	12.00	92.01	114.18	114.97	119.89	156.17	6.808 (J) [PC]
1385	118.00	134.00	15.00	113.90	119.57	123.63	120.10	6.79	6.823 (J) [A2M2]
1386	103.00	124.00	27.00	80.68	108.80	129.73	120.20	711.14	6.841 (J) [PC]
1387	103.00	119.00	12.00	92.01	114.18	114.97	119.89	156.17	6.849 (J) [PC]
1388	123.00	139.00	21.00	114.44	119.82	132.45	120.24	25.47	6.851 (J) [A2M2]
1389	103.00	119.00	30.00	75.41	107.23	132.97	120.25	1200.27	6.855 (J) [PC]
1390	118.00	124.00	18.00	102.50	114.85	136.00	124.36	332.26	6.867 (J) [A2M2]
1391	123.00	124.00	27.00	97.57	114.93	143.45	141.63	913.44	6.868 (J) [A2M2]
1392	123.00	129.00	12.00	115.18	119.90	131.18	120.22	33.84	6.888 (J) [A2M2]
1393	123.00	124.00	6.00	118.52	120.01	127.61	120.16	13.12	6.912 (J) [A2M2]
1394	123.00	129.00	15.00	112.07	118.73	137.28	124.42	109.03	6.914 (J) [PC]
1395	123.00	134.00	18.00	112.89	119.11	138.26	124.45	72.35	6.914 (J) [PC]
1396	103.00	124.00	24.00	83.42	110.12	126.69	120.15	530.39	6.919 (J) [PC]
1397	113.00	124.00	21.00	94.05	114.95	133.66	120.26	443.02	6.936 (J) [A2M2]
1398	103.00	124.00	24.00	83.42	110.12	126.69	120.15	530.39	6.949 (J) [PC]
1399	118.00	124.00	18.00	102.50	114.85	136.00	124.36	332.26	6.958 (J) [A2M2]
1400	103.00	119.00	30.00	75.41	107.23	132.97	120.25	1200.27	6.963 (J) [PC]
1401	113.00	124.00	21.00	94.05	114.95	133.66	120.26	443.02	6.968 (J) [A2M2]
1402	118.00	134.00	15.00	113.90	119.57	123.63	120.10	6.79	6.986 (J) [A2M2]
1403	118.00	124.00	6.00	113.93	119.59	122.54	120.08	12.07	7.030 (J) [A2M2]
1404	123.00	149.00	30.00	115.64	119.92	131.50	120.23	11.58	7.032 (J) [A2M2]
1405	123.00	129.00	15.00	112.07	118.73	137.28	124.42	109.03	7.039 (J) [PC]
1406	123.00	134.00	18.00	112.89	119.11	138.26	124.45	72.35	7.059 (J) [PC]
1407	98.00	119.00	12.00	88.03	112.33	109.93	117.75	127.88	7.090 (J) [A2M2]
1408	113.00	129.00	27.00	90.80	113.63	139.77	132.54	587.66	7.100 (J) [PC]
1409	108.00	119.00	27.00	82.64	109.74	134.48	124.26	1021.68	7.102 (J) [A2M2]
1410	98.00	119.00	12.00	88.03	112.33	109.93	117.75	127.88	7.136 (J) [A2M2]

1411	103.00	119.00	27.00	78.34	108.00	129.97	120.20	960.96	7.141 (J) [PC]
1412	113.00	124.00	18.00	97.45	114.93	130.60	120.21	299.45	7.144 (J) [PC]
1413	93.00	119.00	15.00	81.60	109.25	107.83	116.75	190.77	7.145 (J) [PC]
1414	113.00	124.00	18.00	97.45	114.93	130.60	120.21	299.45	7.145 (J) [PC]
1415	113.00	124.00	30.00	85.83	111.27	140.51	135.98	1056.97	7.147 (J) [PC]
1416	103.00	124.00	21.00	86.17	111.44	123.63	120.10	373.77	7.147 (J) [PC]
1417	103.00	124.00	21.00	86.17	111.44	123.63	120.10	373.77	7.152 (J) [PC]
1418	113.00	129.00	27.00	90.80	113.63	139.77	132.54	587.66	7.160 (J) [PC]
1419	93.00	119.00	15.00	81.60	109.25	107.83	116.75	190.77	7.180 (J) [PC]
1420	108.00	124.00	27.00	84.53	110.65	135.00	124.32	768.85	7.185 (J) [A2M2]
1421	108.00	119.00	27.00	82.64	109.74	134.48	124.26	1021.68	7.186 (J) [A2M2]
1422	108.00	124.00	27.00	84.53	110.65	135.00	124.32	768.85	7.187 (J) [A2M2]
1423	108.00	119.00	24.00	85.36	111.05	131.97	120.24	801.87	7.194 (J) [A2M2]
1424	123.00	129.00	12.00	115.18	119.90	131.18	120.22	33.84	7.194 (J) [A2M2]
1425	113.00	124.00	24.00	91.26	113.84	137.00	124.40	621.61	7.200 (J) [A2M2]
1426	118.00	129.00	21.00	102.48	114.85	138.95	127.56	298.52	7.207 (J) [PC]
1427	113.00	124.00	30.00	85.83	111.27	140.51	135.98	1056.97	7.218 (J) [PC]
1428	103.00	119.00	27.00	78.34	108.00	129.97	120.20	960.96	7.226 (J) [PC]
1429	113.00	124.00	24.00	91.26	113.84	137.00	124.40	621.61	7.235 (J) [A2M2]
1430	123.00	124.00	6.00	118.52	120.01	127.61	120.16	13.12	7.238 (J) [A2M2]
1431	118.00	124.00	24.00	95.78	114.94	140.00	133.60	668.60	7.275 (J) [PC]
1432	108.00	119.00	24.00	85.36	111.05	131.97	120.24	801.87	7.276 (J) [A2M2]
1433	118.00	124.00	24.00	95.78	114.94	140.00	133.60	668.60	7.294 (J) [PC]
1434	108.00	119.00	30.00	79.92	108.44	137.51	124.42	1274.19	7.297 (J) [PC]
1435	108.00	129.00	24.00	89.91	113.22	130.33	120.21	364.99	7.308 (J) [PC]
1436	108.00	129.00	24.00	89.91	113.22	130.33	120.21	364.99	7.312 (J) [PC]
1437	118.00	129.00	21.00	102.48	114.85	138.95	127.56	298.52	7.355 (J) [PC]
1438	108.00	119.00	30.00	79.92	108.44	137.51	124.42	1274.19	7.387 (J) [PC]
1439	118.00	124.00	21.00	99.07	114.92	138.83	126.70	489.49	7.388 (J) [PC]
1440	118.00	149.00	30.00	113.42	119.35	126.19	120.14	9.05	7.423 (J) [PC]
1441	108.00	124.00	30.00	81.82	109.35	138.00	124.44	993.46	7.435 (J) [PC]
1442	118.00	124.00	21.00	99.07	114.92	138.83	126.70	489.49	7.443 (J) [PC]
1443	98.00	119.00	15.00	85.30	111.02	113.00	119.16	229.15	7.445 (J) [PC]
1444	108.00	124.00	30.00	81.82	109.35	138.00	124.44	993.46	7.447 (J) [PC]
1445	103.00	119.00	24.00	81.17	109.04	126.97	120.15	750.33	7.454 (J) [PC]
1446	98.00	119.00	15.00	85.30	111.02	113.00	119.16	229.15	7.466 (J) [PC]
1447	108.00	119.00	18.00	90.82	113.64	125.96	120.13	442.22	7.472 (J) [A2M2]
1448	113.00	124.00	27.00	88.54	112.57	139.31	130.07	832.66	7.476 (J) [PC]
1449	113.00	124.00	27.00	88.54	112.57	139.31	130.07	832.66	7.496 (J) [PC]
1450	123.00	124.00	18.00	106.76	116.24	139.49	131.23	374.54	7.503 (J) [PC]
1451	108.00	119.00	18.00	90.82	113.64	125.96	120.13	442.22	7.505 (J) [A2M2]
1452	108.00	129.00	30.00	84.34	110.56	137.65	124.43	720.21	7.508 (J) [PC]
1453	103.00	119.00	24.00	81.17	109.04	126.97	120.15	750.33	7.518 (J) [PC]
1454	108.00	129.00	30.00	84.34	110.56	137.65	124.43	720.21	7.523 (J) [PC]
1455	123.00	124.00	18.00	106.76	116.24	139.49	131.23	374.54	7.533 (J) [PC]
1456	123.00	124.00	30.00	94.40	114.95	146.30	142.89	1198.13	7.555 (J) [PC]
1457	123.00	124.00	24.00	100.79	114.90	141.27	139.56	681.94	7.583 (J) [A2M2]
1458	93.00	119.00	12.00	84.43	110.60	104.35	115.09	103.42	7.585 (J) [PC]
1459	118.00	149.00	30.00	113.42	119.35	126.19	120.14	9.05	7.588 (J) [PC]
1460	108.00	119.00	21.00	88.08	112.35	128.97	120.19	609.86	7.610 (J) [A2M2]
1461	103.00	119.00	21.00	83.87	110.33	123.97	120.10	566.82	7.620 (J) [PC]

1462	108.00	134.00	30.00	87.52	112.08	136.42	124.38	465.26	7.643 (J) [PC]
1463	93.00	119.00	12.00	84.43	110.60	104.35	115.09	103.42	7.643 (J) [PC]
1464	103.00	119.00	21.00	83.87	110.33	123.97	120.10	566.82	7.666 (J) [PC]
1465	108.00	119.00	21.00	88.08	112.35	128.97	120.19	609.86	7.670 (J) [A2M2]
1466	123.00	124.00	30.00	94.40	114.95	146.30	142.89	1198.13	7.675 (J) [PC]
1467	108.00	134.00	30.00	87.52	112.08	136.42	124.38	465.26	7.684 (J) [PC]
1468	123.00	124.00	24.00	100.79	114.90	141.27	139.56	681.94	7.686 (J) [A2M2]
1469	123.00	134.00	15.00	117.65	119.99	128.84	120.18	8.16	7.810 (J) [PC]
1470	108.00	129.00	27.00	87.11	111.89	133.55	120.26	524.35	7.862 (J) [PC]
1471	108.00	129.00	27.00	87.11	111.89	133.55	120.26	524.35	7.891 (J) [PC]
1472	103.00	119.00	18.00	86.58	111.63	120.97	120.05	405.88	7.900 (J) [PC]
1473	103.00	119.00	18.00	86.58	111.63	120.97	120.05	405.88	7.921 (J) [PC]
1474	113.00	129.00	24.00	93.58	114.90	136.55	124.39	402.77	7.973 (J) [PC]
1475	103.00	119.00	15.00	89.28	112.93	117.97	120.00	268.16	7.977 (J) [PC]
1476	103.00	119.00	15.00	89.28	112.93	117.97	120.00	268.16	7.997 (J) [PC]
1477	113.00	129.00	24.00	93.58	114.90	136.55	124.39	402.77	8.043 (J) [PC]
1478	123.00	124.00	9.00	114.99	119.89	131.17	120.22	58.76	8.071 (J) [A2M2]
1479	108.00	124.00	21.00	89.96	113.25	128.65	120.18	412.04	8.117 (J) [PC]
1480	108.00	124.00	21.00	89.96	113.25	128.65	120.18	412.04	8.134 (J) [PC]
1481	123.00	124.00	21.00	104.05	114.95	140.44	135.69	520.11	8.161 (J) [PC]
1482	123.00	134.00	15.00	117.65	119.99	128.84	120.18	8.16	8.167 (J) [PC]
1483	123.00	124.00	21.00	104.05	114.95	140.44	135.69	520.11	8.196 (J) [PC]
1484	123.00	139.00	21.00	114.44	119.82	132.45	120.24	25.47	8.217 (J) [PC]
1485	118.00	124.00	27.00	92.72	114.51	140.98	138.18	866.74	8.280 (J) [PC]
1486	118.00	124.00	30.00	89.99	113.26	142.55	141.24	1103.77	8.292 (J) [PC]
1487	108.00	119.00	15.00	93.57	114.90	122.96	120.08	298.51	8.349 (J) [PC]
1488	108.00	119.00	15.00	93.57	114.90	122.96	120.08	298.51	8.351 (J) [PC]
1489	118.00	124.00	27.00	92.72	114.51	140.98	138.18	866.74	8.367 (J) [PC]
1490	118.00	124.00	30.00	89.99	113.26	142.55	141.24	1103.77	8.419 (J) [PC]
1491	108.00	124.00	24.00	87.24	111.95	131.70	120.23	575.91	8.424 (J) [PC]
1492	123.00	124.00	9.00	114.99	119.89	131.17	120.22	58.76	8.436 (J) [A2M2]
1493	123.00	124.00	27.00	97.57	114.93	143.45	141.63	913.44	8.451 (J) [PC]
1494	123.00	149.00	30.00	115.64	119.92	131.50	120.23	11.58	8.455 (J) [PC]
1495	108.00	124.00	24.00	87.24	111.95	131.70	120.23	575.91	8.474 (J) [PC]
1496	118.00	124.00	6.00	113.93	119.59	122.54	120.08	12.07	8.508 (J) [PC]
1497	118.00	134.00	15.00	113.90	119.57	123.63	120.10	6.79	8.528 (J) [PC]
1498	123.00	139.00	21.00	114.44	119.82	132.45	120.24	25.47	8.564 (J) [PC]
1499	118.00	124.00	18.00	102.50	114.85	136.00	124.36	332.26	8.579 (J) [PC]
1500	123.00	124.00	27.00	97.57	114.93	143.45	141.63	913.44	8.583 (J) [PC]
1501	123.00	129.00	12.00	115.18	119.90	131.18	120.22	33.84	8.610 (J) [PC]
1502	123.00	124.00	6.00	118.52	120.01	127.61	120.16	13.12	8.640 (J) [PC]
1503	113.00	124.00	21.00	94.05	114.95	133.66	120.26	443.02	8.667 (J) [PC]
1504	118.00	124.00	18.00	102.50	114.85	136.00	124.36	332.26	8.692 (J) [PC]
1505	113.00	124.00	21.00	94.05	114.95	133.66	120.26	443.02	8.706 (J) [PC]
1506	118.00	134.00	15.00	113.90	119.57	123.63	120.10	6.79	8.733 (J) [PC]
1507	118.00	124.00	6.00	113.93	119.59	122.54	120.08	12.07	8.788 (J) [PC]
1508	123.00	149.00	30.00	115.64	119.92	131.50	120.23	11.58	8.790 (J) [PC]
1509	98.00	119.00	12.00	88.03	112.33	109.93	117.75	127.88	8.859 (J) [PC]
1510	108.00	119.00	27.00	82.64	109.74	134.48	124.26	1021.68	8.875 (J) [PC]
1511	98.00	119.00	12.00	88.03	112.33	109.93	117.75	127.88	8.916 (J) [PC]
1512	108.00	124.00	27.00	84.53	110.65	135.00	124.32	768.85	8.976 (J) [PC]

1513	108.00	124.00	27.00	84.53	110.65	135.00	124.32	768.85	8.978 (J) [PC]
1514	108.00	119.00	27.00	82.64	109.74	134.48	124.26	1021.68	8.981 (J) [PC]
1515	108.00	119.00	24.00	85.36	111.05	131.97	120.24	801.87	8.988 (J) [PC]
1516	123.00	129.00	12.00	115.18	119.90	131.18	120.22	33.84	8.992 (J) [PC]
1517	113.00	124.00	24.00	91.26	113.84	137.00	124.40	621.61	8.998 (J) [PC]
1518	113.00	124.00	24.00	91.26	113.84	137.00	124.40	621.61	9.041 (J) [PC]
1519	123.00	124.00	6.00	118.52	120.01	127.61	120.16	13.12	9.048 (J) [PC]
1520	108.00	119.00	24.00	85.36	111.05	131.97	120.24	801.87	9.090 (J) [PC]
1521	123.00	124.00	12.00	112.19	118.79	135.00	124.32	134.19	9.194 (J) [A2M2]
1522	108.00	119.00	18.00	90.82	113.64	125.96	120.13	442.22	9.335 (J) [PC]
1523	123.00	124.00	12.00	112.19	118.79	135.00	124.32	134.19	9.342 (J) [A2M2]
1524	108.00	119.00	18.00	90.82	113.64	125.96	120.13	442.22	9.376 (J) [PC]
1525	123.00	124.00	24.00	100.79	114.90	141.27	139.56	681.94	9.475 (J) [PC]
1526	108.00	119.00	21.00	88.08	112.35	128.97	120.19	609.86	9.511 (J) [PC]
1527	108.00	119.00	21.00	88.08	112.35	128.97	120.19	609.86	9.585 (J) [PC]
1528	123.00	124.00	24.00	100.79	114.90	141.27	139.56	681.94	9.604 (J) [PC]
1529	123.00	124.00	9.00	114.99	119.89	131.17	120.22	58.76	10.089 (J) [PC]
1530	123.00	124.00	9.00	114.99	119.89	131.17	120.22	58.76	10.544 (J) [PC]
1531	123.00	124.00	12.00	112.19	118.79	135.00	124.32	134.19	11.493 (J) [PC]
1532	123.00	124.00	12.00	112.19	118.79	135.00	124.32	134.19	11.678 (J) [PC]

Analisi della superficie critica

Simbologia adottata

Le ascisse X sono considerate positive verso destra
Le ordinate Y sono considerate positive verso l'alto
Le strisce sono numerate da valle verso monte

N°	numero d'ordine della striscia
X_s	ascissa sinistra della striscia espressa in m
Y_{ss}	ordinata superiore sinistra della striscia espressa in m
Y_{si}	ordinata inferiore sinistra della striscia espressa in m
X_g	ascissa del baricentro della striscia espressa in m
Y_g	ordinata del baricentro della striscia espressa in m
α	angolo fra la base della striscia e l'orizzontale espresso °(positivo antiorario)
ϕ	angolo d'attrito del terreno lungo la base della striscia
c	coesione del terreno lungo la base della striscia espressa in kPa
L	sviluppo della base della striscia espressa in m(L=b/cosα)
u	pressione neutra lungo la base della striscia espressa in kPa
W	peso della striscia espresso in kN
Q	carico applicato sulla striscia espresso in kN
N	sforzo normale alla base della striscia espresso in kN
T	sforzo tangenziale alla base della striscia espresso in kN
U	pressione neutra alla base della striscia espressa in kN
E_s, E_d	forze orizzontali sulla striscia a sinistra e a destra espresse in kN
X_s, X_d	forze verticali sulla striscia a sinistra e a destra espresse in kN
ID	Indice della superficie interessata dall'intervento

Analisi della superficie 1 - coefficienti parziali caso A2M2 e sisma verso il basso

Numero di strisce	20	
Coordinate del centro	X[m]= 108.00	Y[m]= 124.00
Raggio del cerchio	R[m]= 9.00	
Intersezione a valle con il profilo topografico	X_v[m]= 105.14	Y_v[m]= 115.47
Intersezione a monte con il profilo topografico	X_m[m]= 116.03	Y_m[m]= 119.93
Coefficiente di sicurezza	C_S= 1.287	

Geometria e caratteristiche strisce

N°	X_s	Y_{ss}	Y_{si}	X_d	Y_{ds}	Y_{di}	X_g	Y_g	L	α	ϕ	c
1	105.14	115.47	115.47	105.71	115.74	115.30	105.52	115.50	0.60	-16.66	24.79	8
2	105.71	115.74	115.30	106.28	116.01	115.17	106.02	115.56	0.59	-12.89	24.79	8
3	106.28	116.01	115.17	106.85	116.28	115.07	106.58	115.64	0.58	-9.18	24.79	8
4	106.85	116.28	115.07	107.42	116.55	115.02	107.15	115.73	0.57	-5.51	24.79	8
5	107.42	116.55	115.02	107.99	116.82	115.00	107.72	115.85	0.57	-1.86	24.79	8
6	107.99	116.82	115.00	108.57	117.10	115.02	108.29	115.99	0.57	1.78	24.79	0
7	108.57	117.10	115.02	109.14	117.37	115.07	108.86	116.15	0.57	5.43	24.79	0
8	109.14	117.37	115.07	109.71	117.64	115.16	109.43	116.32	0.58	9.10	24.79	0
9	109.71	117.64	115.16	110.28	117.91	115.29	110.00	116.52	0.59	12.81	24.79	0
10	110.28	117.91	115.29	110.82	118.16	115.45	110.55	116.72	0.56	16.45	24.79	0
11	110.82	118.16	115.45	111.35	118.40	115.65	111.09	116.93	0.57	20.05	24.79	0
12	111.35	118.40	115.65	111.89	118.65	115.88	111.62	117.16	0.59	23.73	24.79	0

13	111.89	118.65	115.88	112.43	118.89	116.16	112.16	117.41	0.60	27.53	24.79	0
14	112.43	118.89	116.16	112.96	119.14	116.49	112.69	117.69	0.63	31.45	24.79	0
15	112.96	119.14	116.49	113.50	119.39	116.87	113.23	117.99	0.66	35.55	24.79	0
16	113.50	119.39	116.87	114.03	119.63	117.32	113.76	118.32	0.70	39.87	24.79	0
17	114.03	119.63	117.32	114.57	119.88	117.85	114.30	118.68	0.75	44.49	24.79	0
18	114.57	119.88	117.85	115.06	119.90	118.41	114.80	119.01	0.74	49.26	24.79	0
19	115.06	119.90	118.41	115.54	119.91	119.09	115.28	119.31	0.83	54.28	24.79	6
20	115.54	119.91	119.09	116.03	119.93	119.93	115.70	119.64	0.97	60.02	24.79	8

Forze applicate sulle strisce [JANBU]

N°	W	Q	N	T	U	E_s	E_d	X_s	X_d
1	2.40	0.00	4.14	5.19	0.00	0.00	6.02	0.00	0.00
2	6.99	0.00	8.95	6.86	0.00	6.02	14.29	0.00	0.00
3	11.15	0.00	12.96	8.25	0.00	14.29	23.84	0.00	0.00
4	14.90	0.00	16.32	9.43	0.00	23.84	33.91	0.00	0.00
5	18.24	0.00	19.13	10.42	0.00	33.91	43.87	0.00	0.00
6	21.12	0.00	21.52	7.77	0.00	43.87	49.71	0.00	0.00
7	23.53	0.00	23.54	8.45	0.00	49.71	54.50	0.00	0.00
8	25.57	0.00	25.21	9.05	0.00	54.50	57.93	0.00	0.00
9	27.21	0.00	26.56	9.53	0.00	57.93	59.72	0.00	0.00
10	26.62	0.00	25.84	9.28	0.00	59.72	59.72	0.00	0.00
11	27.28	0.00	26.44	9.49	0.00	59.72	57.95	0.00	0.00
12	27.56	0.00	26.77	9.61	0.00	57.95	54.33	0.00	0.00
13	27.44	0.00	26.84	9.63	0.00	54.33	48.85	0.00	0.00
14	26.87	0.00	26.60	9.55	0.00	48.85	41.52	0.00	0.00
15	25.81	0.00	25.99	9.33	0.00	41.52	32.47	0.00	0.00
16	24.16	0.00	24.94	8.95	0.00	32.47	21.91	0.00	0.00
17	21.82	0.00	23.28	8.36	0.00	21.91	10.26	0.00	0.00
18	16.09	0.00	17.92	6.43	0.00	10.26	-0.07	0.00	0.00
19	10.65	0.00	9.01	7.03	0.00	-0.07	-3.91	0.00	0.00
20	3.81	0.00	-1.62	5.46	0.00	-3.91	0.00	0.00	0.00

Dichiarazioni secondo N.T.C. 2008 (punto 10.2)

Analisi e verifiche svolte con l'ausilio di codici di calcolo
Il sottoscritto Iacopo Parenti, in qualità di calcolatore delle opere in progetto, dichiara quanto segue.

Tipo di analisi svolta
L'analisi e le verifiche di stabilità sono condotte con l'ausilio di un codice di calcolo automatico.
I metodi di calcolo implementati sono i classici metodi delle strisce, basati sul concetto dell'equilibrio limite globale. La superficie di rottura è suddivisa in un determinato numero di strisce che consentono di calcolare le grandezze che entrano in gioco nelle equazioni risolutive.
Nel modulo terreni si adotta il criterio di rottura di Mohr-Coulomb. Nel modulo rocce si può adottare il criterio di rottura di Hoek-Brown o di Barton.
Il programma consente di inserire degli interventi di stabilizzazione, che possono intervenire secondo sue modalità diverse: variazione delle forze di interstriscia o resistenza a taglio equivalente.
L'analisi sotto le azioni sismiche è condotta con il metodo dell'analisi statica equivalente secondo le disposizioni del capitolo 7 del DM 14/01/2008.

Origine e caratteristiche dei codici di calcolo

Titolo	STAP - Stabilità Pendii Terreni e Rocce
Versione	11.0
Produttore	Aztec Informatica srl, Casole Bruzio (CS)
Utente	ING. PARENTI IACOPO
Licenza	AIU22951S

Affidabilità dei codici di calcolo
Un attento esame preliminare della documentazione a corredo del software ha consentito di valutarne l'affidabilità. La documentazione fornita dal produttore del software contiene un'esauriente descrizione delle basi teoriche, degli algoritmi impiegati e l'individuazione dei campi d'impiego. La società produttrice Aztec Informatica srl ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

Modalità di presentazione dei risultati
La relazione di calcolo strutturale presenta i dati di calcolo tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità. La relazione di calcolo illustra in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare.

Informazioni generali sull'elaborazione
Il software prevede una serie di controlli automatici che consentono l'individuazione di errori di modellazione, di non rispetto di limitazioni geometriche e di armatura e di presenza di elementi non verificati. Il codice di calcolo consente di visualizzare e controllare, sia in forma grafica che tabellare, i dati del modello strutturale, in modo da avere una visione consapevole del comportamento corretto del modello strutturale.

Giudizio motivato di accettabilità dei risultati
I risultati delle elaborazioni sono stati sottoposti a controlli dal sottoscritto utente del software. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali. Inoltre sulla base di considerazioni riguardanti gli stati tensionali e deformativi

determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni.
In base a quanto sopra, io sottoscritto asserisco che l'elaborazione è corretta ed idonea al caso specifico, pertanto i risultati di calcolo sono da ritenersi validi ed accettabili.

Luogo e data

_____

Il progettista
(Iacopo Parenti)

_____

Progetto: Cava Sassicheto
Ditta: Sa.Des. Costruzioni
Comune: Firenzuola
Progettista: Iacopo Parenti
Direttore dei Lavori: Iacopo Parenti
Impresa: Sa.Des. Costruzioni

Normative di riferimento

- Legge nr. 64 del 02/02/1974.
Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- D.M. LL.PP. del 11/03/1988.
Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
- D.M. 16 Gennaio 1996
Norme Tecniche per le costruzioni in zone sismiche
- Circolare Ministero LL.PP. 15 Ottobre 1996 N. 252 AA.GG./S.T.C.
Istruzioni per l'applicazione delle Norme Tecniche di cui al D.M. 9 Gennaio 1996
- Circolare Ministero LL.PP. 10 Aprile 1997 N. 65/AA.GG.
Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche di cui al D.M. 16 Gennaio 1996

- Norme Tecniche per le Costruzioni 2008 (D.M. 14 Gennaio 2008)
- Circolare 617 del 02/02/2009
Istruzioni per l'applicazione delle Nuove Norme Tecniche per le Costruzioni di cui al D.M. 14 gennaio 2008.

Descrizione metodo di calcolo

La verifica alla stabilità del pendio deve fornire un coefficiente di sicurezza non inferiore a **1.10**.
Viene usata la tecnica della suddivisione a strisce della superficie di scorrimento da analizzare.
In particolare il programma esamina un numero di superfici che dipende dalle impostazioni fornite e che sono riportate nella corrispondente sezione. Il processo iterativo permette di determinare il coefficiente di sicurezza di tutte le superfici analizzate.
Nella descrizione dei metodi di calcolo si adotterà la seguente simbologia:

l lunghezza della base della striscia
α angolo della base della striscia rispetto all'orizzontale
b larghezza della striscia b=l x cos(α)
ϕ angolo di attrito lungo la base della striscia
c coesione lungo la base della striscia
γ peso di volume del terreno
u pressione neutra
W peso della striscia
N sforzo normale alla base della striscia
T sforzo di taglio alla base della striscia
$\mathbf{E_s}$, $\mathbf{E_d}$ forze normali di interstriscia a sinistra e a destra
$\mathbf{X_s}$, $\mathbf{X_d}$ forze tangenziali di interstriscia a sinistra e a destra
$\mathbf{E_a}$, $\mathbf{E_b}$ forze normali di interstriscia alla base ed alla sommità del pendio
ΔX variazione delle forze tangenziali sulla striscia $\mathbf{\Delta X = X_d - X_s}$
ΔE variazione delle forze normali sulla striscia $\mathbf{\Delta E = E_d - E_s}$

Metodo di Janbu (semplificato)

Il coefficiente di sicurezza nel metodo di **Janbu semplificato** si esprime secondo la seguente formula:

$$F = \frac{\Sigma[\, c_i\, b_i + (N_i / \cos(\alpha_i) - u_i\, b_i)\, tg\phi_i \,]}{\Sigma_i\, [\, W_i \tan\alpha_i \,]}$$

dove il termine $\mathbf{N_i}$ è espresso da

$$N_i = [\, W_i - c_i\, l_i \sin\alpha_t / \eta + u_i\, l_i \tan\phi \sin\alpha_t / F \,] / m$$

dove il termine **m** è espresso da

$$m = \cos\alpha + (\sin\alpha \tan\phi) / F$$

In questa espressione **n** è il numero delle strisce considerate, $\mathbf{b_i}$ e $\mathbf{\alpha_i}$ sono la larghezza e l'inclinazione della base della striscia $\mathbf{i_{esima}}$ rispetto all'orizzontale, $\mathbf{W_i}$ è il peso della striscia $\mathbf{i_{esima}}$, $\mathbf{c_i}$ e $\mathbf{\phi_i}$ sono le caratteristiche del terreno (coesione ed angolo di attrito) lungo la base della striscia ed $\mathbf{u_i}$ è la pressione neutra lungo la base della striscia.

L'espressione del coefficiente di sicurezza di **Janbu semplificato** contiene al secondo membro il termine **m** che è funzione di **F**. Quindi essa viene risolta per successive approssimazioni assumendo un valore iniziale per **F** da inserire nell'espressione di **m** ed iterare finquando il valore calcolato coincide con il valore assunto.
La semplificazione del metodo rispetto al procedimento completo consiste nel trascurare le forze tangenziali di interstriscia.

Descrizione terreno

Simbologia adottata

Nr. Indice del terreno
Descrizione Descrizione terreno
γ Peso di volume del terreno espresso in kN/mc
γ_w Peso di volume saturo del terreno espresso in kN/mc
ϕ Angolo d'attrito interno 'efficace' del terreno espresso in gradi
c Coesione 'efficace' del terreno espressa in kPa
ϕ_u Angolo d'attrito interno 'totale' del terreno espresso gradi
c_u Coesione 'totale' del terreno espressa in kPa

Nr.	Descrizione	γ	γ_w	ϕ'	c'	ϕ_u	c_u
1	Detrito	18.00	21.00	48.00	8.0	0.00	39.2
2	Substrato	26.00	26.00	49.00	160.0	0.00	39.2

Profilo del piano campagna

Simbologia e convenzioni di segno adottate

L'ascissa è intesa positiva da sinistra verso destra e l'ordinata positiva verso l'alto.
Nr. Identificativo del punto
X Ascissa del punto del profilo espressa in m
Y Ordinata del punto del profilo espressa in m

Nr.	X [m]	Y [m]
1	0.00	75.36
2	6.83	74.23
3	11.38	73.53
4	14.93	72.98
5	16.62	73.09
6	18.66	73.36
7	20.41	74.23
8	23.06	76.23
9	24.73	78.23
10	27.13	80.23
11	30.92	82.23
12	35.19	84.23
13	35.48	84.39
14	38.92	86.23
15	39.09	86.34
16	39.93	86.83
17	41.92	87.99
18	42.34	88.23
19	44.21	89.47
20	45.36	90.23
21	45.59	90.36
22	46.16	90.67
23	48.17	91.77
24	49.03	92.23
25	50.46	92.93
26	52.05	93.73

27	52.58	93.99
28	53.04	94.23
29	55.69	95.70
30	56.65	96.23
31	57.22	96.59
32	58.82	97.59
33	59.58	98.06
34	59.85	98.23
35	62.15	99.41
36	63.78	100.23
37	64.83	100.73
38	66.62	101.57
39	67.49	101.99
40	68.01	102.23
41	68.12	102.32
42	68.34	102.50
43	68.63	102.75
44	68.75	102.85
45	70.54	103.73
46	71.14	104.23
47	73.06	105.40
48	73.13	105.47
49	73.43	105.55
50	73.96	105.60
51	75.18	105.77
52	75.24	105.80
53	85.36	106.22
54	89.65	106.40
55	131.81	108.18
56	132.81	113.85
57	133.78	119.26
58	134.49	123.30
59	137.14	123.41
60	137.41	123.42
61	138.50	123.46
62	139.24	128.55
63	139.32	129.14
64	139.45	130.04
65	139.49	130.25
66	141.15	137.98
67	141.53	139.79
68	141.73	139.87
69	141.88	139.94
70	142.26	140.11
71	142.99	140.43
72	146.71	142.07
73	146.76	142.12
74	146.80	142.16
75	146.84	142.19
76	146.86	142.20
77	146.88	142.22

78	146.92	142.23
79	147.88	142.23
80	148.46	142.23
81	150.82	145.21
82	152.22	147.02

Descrizione stratigrafia

Simbologia e convenzioni di segno adottate
Gli strati sono descritti mediante i punti di contorno (in senso antiorario) e l'indice del terreno di cui è costituito

Strato N° **1** costituito da terreno n° 2 (Substrato)

Coordinate dei vertici dello strato n° 1

N°	X[m]	Y[m]
1	11.38	73.53
2	6.83	74.23
3	0.00	75.36
4	0.00	0.00
5	152.22	0.00
6	152.22	147.02
7	150.82	145.21
8	148.46	142.23
9	147.88	142.23
10	146.92	142.23
11	146.88	142.22
12	146.86	142.20
13	146.84	142.19
14	146.80	142.16
15	146.76	142.12
16	146.71	142.07
17	142.99	140.43
18	142.26	140.11
19	141.88	139.94
20	141.73	139.87
21	141.53	139.79
22	141.15	137.98
23	139.49	130.25
24	139.45	130.04
25	139.32	129.14
26	139.24	128.55
27	138.50	123.46
28	137.41	123.42
29	137.14	123.41
30	134.49	123.30
31	133.78	119.26
32	132.81	113.85
33	131.81	108.18
34	89.65	106.40
35	89.16	106.23

36	83.85	104.23
37	81.42	102.23
38	78.66	100.23
39	74.42	98.23
40	71.19	96.23
41	65.37	94.23
42	63.09	92.23
43	59.78	90.23
44	56.31	88.23
45	53.86	86.23
46	49.17	84.23
47	47.47	82.23
48	40.66	80.23
49	37.56	78.23
50	35.18	74.90
51	32.02	72.13
52	24.65	69.03
53	19.27	66.70
54	18.15	66.72
55	16.47	67.57

Strato N° **2** costituito da terreno n° 1 (Detrito)

Coordinate dei vertici dello strato n° 2

N°	**X[m]**	**Y[m]**
1	89.65	106.40
2	85.36	106.22
3	75.24	105.80
4	75.18	105.77
5	73.96	105.60
6	73.43	105.55
7	73.13	105.47
8	73.06	105.40
9	71.14	104.23
10	70.54	103.73
11	68.75	102.85
12	68.63	102.75
13	68.34	102.50
14	68.12	102.32
15	68.01	102.23
16	67.49	101.99
17	66.62	101.57
18	64.83	100.73
19	63.78	100.23
20	62.15	99.41
21	59.85	98.23
22	59.58	98.06
23	58.82	97.59
24	57.22	96.59
25	56.65	96.23

26	55.69	95.70
27	53.04	94.23
28	52.58	93.99
29	52.05	93.73
30	50.46	92.93
31	49.03	92.23
32	48.17	91.77
33	46.16	90.67
34	45.59	90.36
35	45.36	90.23
36	44.21	89.47
37	42.34	88.23
38	41.92	87.99
39	39.93	86.83
40	39.09	86.34
41	38.92	86.23
42	35.48	84.39
43	35.19	84.23
44	30.92	82.23
45	27.13	80.23
46	24.73	78.23
47	23.06	76.23
48	20.41	74.23
49	18.66	73.36
50	16.62	73.09
51	14.93	72.98
52	11.38	73.53
53	16.47	67.57
54	18.15	66.72
55	19.27	66.70
56	24.65	69.03
57	32.02	72.13
58	35.18	74.90
59	37.56	78.23
60	40.66	80.23
61	47.47	82.23
62	49.17	84.23
63	53.86	86.23
64	56.31	88.23
65	59.78	90.23
66	63.09	92.23
67	65.37	94.23
68	71.19	96.23
69	74.42	98.23
70	78.66	100.23
71	81.42	102.23
72	83.85	104.23
73	89.16	106.23

Risultati analisi

Per l'analisi sono stati utilizzati i seguenti metodi di calcolo :
Metodo di JANBU (J)

Impostazioni analisi
Normativa :
Norme Tecniche sulle Costruzioni 14/01/2008

Coefficienti di partecipazione caso statico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.30	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.50	1.30

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Coefficienti di partecipazione caso sismico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.00	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.00	1.00

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Sisma

Accelerazione al suolo a_g =	1.943 [m/s^2]
Coefficiente di amplificazione per tipo di sottosuolo (Ss)	1.20
Coefficiente di amplificazione topografica (St)	1.04
Coefficiente riduzione (β_s)	0.24
Rapporto intensità sismica verticale/orizzontale	0.50
Coefficiente di intensità sismica orizzontale (percento)	$k_h=(a_g/g*\beta_s*St*S)$ = 5.93
Coefficiente di intensità sismica verticale (percento)	$k_v=0.50 * k_h$ = 2.97
Coefficiente di sicurezza richiesto	1.10

Le superfici sono state analizzate per i casi: [PC] [A2M2]
Sisma verticale: verso il basso - verso l'alto
Analisi condotta in termini di tensioni efficaci

Impostazioni delle superfici di rottura

Si considerano delle superfici di rottura circolari generate tramite la seguente maglia dei centri

Origine maglia [m]:	X_0 = 98.00	Y_0 = 114.00
Passo maglia [m]:	dX = 5.00	dY = 5.00
Numero passi :	Nx = 11	Ny = 9
Raggio [m]:	R = 3.00	

Si utilizza un raggio variabile con passo dR=3.00 [m] ed un numero di incrementi pari a 10

Sono state escluse dall'analisi le superfici aventi:
- lunghezza di corda inferiore a 1.00 m
- freccia inferiore a 0.50 m
- volume inferiore a 2.00 mc

Numero di superfici analizzate	1108
Coefficiente di sicurezza minimo	1.409
Superficie con coefficiente di sicurezza minimo	1

Quadro sintetico coefficienti di sicurezza

Metodo	Nr. superfici	FS_{min}	S_{min}	FS_{max}	S_{max}
JANBU	1108	1.409	1	-18.272	1112

Caratteristiche delle superfici analizzate

Simbologia adottata

Le ascisse X sono considerate positive verso monte
Le ordinate Y sono considerate positive verso l'alto

N°	numero d'ordine della superficie cerchio
C_x	ascissa x del centro [m]
C_y	ordinata y del centro [m]
R	raggio del cerchio espresso in m
x_v, y_v	ascissa e ordinata del punto di intersezione con il profilo (valle) espresse in m
x_m, y_m	ascissa e ordinata del punto di intersezione con il profilo (monte) espresse in m
V	volume interessato dalla superficie espresso [cmq]
C_s	coefficiente di sicurezza
caso	caso di calcolo

N°	C_x	C_y	R	x_v	y_v	x_m	y_m	V	C_s	caso
1	123.00	139.00	30.00	132.21	110.45	151.99	146.72	331.09	1.409 (J)	[A2M2]
2	123.00	134.00	24.00	132.47	111.95	145.75	141.65	172.27	1.432 (J)	[A2M2]
3	123.00	139.00	30.00	132.21	110.45	151.99	146.72	331.09	1.437 (J)	[A2M2]
4	123.00	134.00	24.00	132.47	111.95	145.75	141.65	172.27	1.468 (J)	[A2M2]
5	123.00	139.00	27.00	132.81	113.84	149.59	143.66	214.92	1.537 (J)	[A2M2]
6	128.00	134.00	24.00	132.20	110.37	149.83	143.96	313.36	1.543 (J)	[A2M2]
7	128.00	134.00	21.00	132.76	113.55	147.32	142.23	204.23	1.561 (J)	[A2M2]
8	128.00	134.00	24.00	132.20	110.37	149.83	143.96	313.36	1.565 (J)	[A2M2]
9	118.00	139.00	30.00	132.63	112.81	147.83	142.23	177.04	1.572 (J)	[A2M2]
10	123.00	139.00	27.00	132.81	113.84	149.59	143.66	214.92	1.579 (J)	[A2M2]
11	128.00	134.00	21.00	132.76	113.55	147.32	142.23	204.23	1.591 (J)	[A2M2]
12	128.00	139.00	24.00	133.12	115.55	151.09	145.56	245.15	1.602 (J)	[A2M2]
13	118.00	139.00	30.00	132.63	112.81	147.83	142.23	177.04	1.626 (J)	[A2M2]
14	123.00	129.00	21.00	132.15	110.10	141.39	139.13	100.00	1.628 (J)	[A2M2]
15	128.00	139.00	24.00	133.12	115.55	151.09	145.56	245.15	1.636 (J)	[A2M2]
16	123.00	129.00	21.00	132.15	110.10	141.39	139.13	100.00	1.669 (J)	[A2M2]
17	128.00	134.00	18.00	133.34	116.81	144.54	141.11	108.47	1.693 (J)	[A2M2]
18	128.00	134.00	18.00	133.34	116.81	144.54	141.11	108.47	1.738 (J)	[A2M2]
19	123.00	134.00	21.00	133.12	115.60	142.99	140.43	79.33	1.742 (J)	[A2M2]
20	123.00	139.00	30.00	132.21	110.45	151.99	146.72	331.09	1.761 (J)	[PC]
21	128.00	134.00	27.00	121.67	107.75	151.89	146.59	440.52	1.777 (J)	[A2M2]
22	128.00	139.00	21.00	133.70	118.79	148.70	142.53	146.73	1.790 (J)	[A2M2]
23	123.00	134.00	24.00	132.47	111.95	145.75	141.65	172.27	1.790 (J)	[PC]
24	123.00	139.00	30.00	132.21	110.45	151.99	146.72	331.09	1.796 (J)	[PC]
25	123.00	134.00	21.00	133.12	115.60	142.99	140.43	79.33	1.802 (J)	[A2M2]
26	128.00	134.00	27.00	121.67	107.75	151.89	146.59	440.52	1.804 (J)	[A2M2]
27	123.00	139.00	24.00	133.45	117.39	146.79	142.15	117.19	1.815 (J)	[A2M2]
28	123.00	134.00	24.00	132.47	111.95	145.75	141.65	172.27	1.835 (J)	[PC]
29	128.00	139.00	21.00	133.70	118.79	148.70	142.53	146.73	1.845 (J)	[A2M2]
30	133.00	139.00	15.00	138.74	125.14	147.65	142.23	88.33	1.856 (J)	[A2M2]
31	128.00	129.00	18.00	132.40	111.55	142.19	140.08	117.79	1.862 (J)	[A2M2]
32	133.00	134.00	18.00	133.20	116.00	148.79	142.64	224.82	1.868 (J)	[A2M2]
33	123.00	139.00	24.00	133.45	117.39	146.79	142.15	117.19	1.882 (J)	[A2M2]

34	133.00	139.00	18.00	134.09	121.03	150.17	144.39	165.20	1.894 (J)	[A2M2]
35	128.00	129.00	18.00	132.40	111.55	142.19	140.08	117.79	1.896 (J)	[A2M2]
36	133.00	134.00	18.00	133.20	116.00	148.79	142.64	224.82	1.897 (J)	[A2M2]
37	133.00	134.00	21.00	132.66	113.00	150.79	145.17	325.29	1.902 (J)	[A2M2]
38	133.00	139.00	15.00	138.74	125.14	147.65	142.23	88.33	1.914 (J)	[A2M2]
39	123.00	139.00	27.00	132.81	113.84	149.59	143.66	214.92	1.921 (J)	[PC]
40	133.00	134.00	21.00	132.66	113.00	150.79	145.17	325.29	1.923 (J)	[A2M2]
41	128.00	134.00	24.00	132.20	110.37	149.83	143.96	313.36	1.928 (J)	[PC]
42	133.00	139.00	18.00	134.09	121.03	150.17	144.39	165.20	1.940 (J)	[A2M2]
43	128.00	134.00	21.00	132.76	113.55	147.32	142.23	204.23	1.951 (J)	[PC]
44	128.00	134.00	24.00	132.20	110.37	149.83	143.96	313.36	1.957 (J)	[PC]
45	123.00	134.00	30.00	109.45	107.24	150.82	145.22	470.59	1.958 (J)	[A2M2]
46	133.00	134.00	15.00	133.74	119.02	145.87	141.70	126.56	1.961 (J)	[A2M2]
47	118.00	139.00	30.00	132.63	112.81	147.83	142.23	177.04	1.965 (J)	[PC]
48	123.00	139.00	27.00	132.81	113.84	149.59	143.66	214.92	1.974 (J)	[PC]
49	128.00	144.00	24.00	134.05	120.77	151.86	146.56	162.56	1.984 (J)	[A2M2]
50	128.00	134.00	21.00	132.76	113.55	147.32	142.23	204.23	1.989 (J)	[PC]
51	128.00	124.00	15.00	132.05	109.56	140.06	132.92	85.07	1.990 (J)	[A2M2]
52	123.00	134.00	30.00	109.45	107.24	150.82	145.22	470.59	1.994 (J)	[A2M2]
53	133.00	134.00	15.00	133.74	119.02	145.87	141.70	126.56	2.001 (J)	[A2M2]
54	128.00	139.00	24.00	133.12	115.55	151.09	145.56	245.15	2.002 (J)	[PC]
55	128.00	119.00	9.00	132.33	111.11	135.87	123.36	25.01	2.008 (J)	[A2M2]
56	128.00	124.00	15.00	132.05	109.56	140.06	132.92	85.07	2.031 (J)	[A2M2]
57	118.00	139.00	30.00	132.63	112.81	147.83	142.23	177.04	2.032 (J)	[PC]
58	123.00	129.00	21.00	132.15	110.10	141.39	139.13	100.00	2.036 (J)	[PC]
59	128.00	139.00	24.00	133.12	115.55	151.09	145.56	245.15	2.045 (J)	[PC]
60	128.00	144.00	24.00	134.05	120.77	151.86	146.56	162.56	2.050 (J)	[A2M2]
61	128.00	119.00	9.00	132.33	111.11	135.87	123.36	25.01	2.073 (J)	[A2M2]
62	123.00	129.00	21.00	132.15	110.10	141.39	139.13	100.00	2.087 (J)	[PC]
63	128.00	129.00	15.00	132.99	114.85	140.87	136.70	58.83	2.110 (J)	[A2M2]
64	138.00	139.00	15.00	138.58	124.01	151.33	145.87	171.42	2.112 (J)	[A2M2]
65	128.00	134.00	18.00	133.34	116.81	144.54	141.11	108.47	2.117 (J)	[PC]
66	128.00	129.00	24.00	117.21	107.56	148.02	142.23	389.05	2.137 (J)	[A2M2]
67	118.00	139.00	27.00	133.33	116.78	144.90	141.27	82.00	2.139 (J)	[A2M2]
68	138.00	139.00	15.00	138.58	124.01	151.33	145.87	171.42	2.146 (J)	[A2M2]
69	133.00	129.00	21.00	130.66	108.13	148.87	142.75	365.63	2.159 (J)	[A2M2]
70	128.00	129.00	24.00	117.21	107.56	148.02	142.23	389.05	2.170 (J)	[A2M2]
71	128.00	129.00	15.00	132.99	114.85	140.87	136.70	58.83	2.170 (J)	[A2M2]
72	128.00	134.00	18.00	133.34	116.81	144.54	141.11	108.47	2.173 (J)	[PC]
73	118.00	134.00	30.00	104.84	107.04	146.86	142.20	310.15	2.175 (J)	[A2M2]
74	133.00	129.00	21.00	130.66	108.13	148.87	142.75	365.63	2.176 (J)	[A2M2]
75	123.00	134.00	21.00	133.12	115.60	142.99	140.43	79.33	2.178 (J)	[PC]
76	128.00	134.00	27.00	121.67	107.75	151.89	146.59	440.52	2.222 (J)	[PC]
77	138.00	139.00	12.00	139.02	127.04	149.24	143.21	104.18	2.223 (J)	[A2M2]
78	118.00	134.00	30.00	104.84	107.04	146.86	142.20	310.15	2.230 (J)	[A2M2]
79	118.00	139.00	27.00	133.33	116.78	144.90	141.27	82.00	2.235 (J)	[A2M2]
80	128.00	139.00	21.00	133.70	118.79	148.70	142.53	146.73	2.238 (J)	[PC]
81	123.00	134.00	21.00	133.12	115.60	142.99	140.43	79.33	2.253 (J)	[PC]
82	128.00	134.00	27.00	121.67	107.75	151.89	146.59	440.52	2.255 (J)	[PC]
83	123.00	144.00	27.00	133.78	119.24	150.00	144.17	134.12	2.262 (J)	[A2M2]
84	123.00	139.00	24.00	133.45	117.39	146.79	142.15	117.19	2.268 (J)	[PC]

85	138.00	139.00	12.00	139.02	127.04	149.24	143.21	104.18	2.273 (J)	[A2M2]
86	133.00	129.00	18.00	132.31	111.01	145.79	141.66	233.15	2.278 (J)	[A2M2]
87	128.00	124.00	12.00	132.65	112.94	139.20	128.30	44.40	2.287 (J)	[A2M2]
88	123.00	129.00	18.00	132.82	113.92	140.29	133.99	45.00	2.295 (J)	[A2M2]
89	123.00	129.00	24.00	112.60	107.37	143.88	140.82	239.69	2.298 (J)	[A2M2]
90	133.00	129.00	18.00	132.31	111.01	145.79	141.66	233.15	2.298 (J)	[A2M2]
91	118.00	144.00	30.00	133.62	118.39	147.95	142.23	103.26	2.300 (J)	[A2M2]
92	133.00	134.00	12.00	134.27	122.07	143.10	140.48	49.08	2.305 (J)	[A2M2]
93	128.00	139.00	21.00	133.70	118.79	148.70	142.53	146.73	2.306 (J)	[PC]
94	133.00	139.00	12.00	139.27	128.77	144.79	141.22	35.78	2.320 (J)	[A2M2]
95	133.00	139.00	15.00	138.74	125.14	147.65	142.23	88.33	2.320 (J)	[PC]
96	128.00	129.00	18.00	132.40	111.55	142.19	140.08	117.79	2.327 (J)	[PC]
97	133.00	134.00	18.00	133.20	116.00	148.79	142.64	224.82	2.335 (J)	[PC]
98	123.00	129.00	24.00	112.60	107.37	143.88	140.82	239.69	2.350 (J)	[A2M2]
99	123.00	139.00	24.00	133.45	117.39	146.79	142.15	117.19	2.352 (J)	[PC]
100	123.00	144.00	27.00	133.78	119.24	150.00	144.17	134.12	2.358 (J)	[A2M2]
101	128.00	124.00	12.00	132.65	112.94	139.20	128.30	44.40	2.364 (J)	[A2M2]
102	133.00	139.00	18.00	134.09	121.03	150.17	144.39	165.20	2.368 (J)	[PC]
103	128.00	129.00	18.00	132.40	111.55	142.19	140.08	117.79	2.370 (J)	[PC]
104	133.00	134.00	18.00	133.20	116.00	148.79	142.64	224.82	2.371 (J)	[PC]
105	133.00	144.00	18.00	139.02	127.04	150.95	145.37	102.86	2.373 (J)	[A2M2]
106	133.00	134.00	12.00	134.27	122.07	143.10	140.48	49.08	2.376 (J)	[A2M2]
107	133.00	134.00	21.00	132.66	113.00	150.79	145.17	325.29	2.378 (J)	[PC]
108	123.00	129.00	18.00	132.82	113.92	140.29	133.99	45.00	2.389 (J)	[A2M2]
109	133.00	139.00	15.00	138.74	125.14	147.65	142.23	88.33	2.392 (J)	[PC]
110	118.00	144.00	30.00	133.62	118.39	147.95	142.23	103.26	2.404 (J)	[A2M2]
111	133.00	134.00	21.00	132.66	113.00	150.79	145.17	325.29	2.404 (J)	[PC]
112	133.00	139.00	12.00	139.27	128.77	144.79	141.22	35.78	2.417 (J)	[A2M2]
113	133.00	139.00	18.00	134.09	121.03	150.17	144.39	165.20	2.425 (J)	[PC]
114	123.00	129.00	27.00	107.15	107.14	146.64	142.04	430.90	2.429 (J)	[A2M2]
115	118.00	134.00	24.00	133.07	115.32	141.42	139.25	44.93	2.434 (J)	[A2M2]
116	123.00	134.00	30.00	109.45	107.24	150.82	145.22	470.59	2.447 (J)	[PC]
117	133.00	134.00	15.00	133.74	119.02	145.87	141.70	126.56	2.451 (J)	[PC]
118	128.00	129.00	27.00	111.88	107.34	150.18	144.40	567.56	2.453 (J)	[A2M2]
119	138.00	139.00	9.00	139.47	130.12	146.49	141.97	50.42	2.458 (J)	[A2M2]
120	133.00	144.00	18.00	139.02	127.04	150.95	145.37	102.86	2.460 (J)	[A2M2]
121	123.00	129.00	27.00	107.15	107.14	146.64	142.04	430.90	2.470 (J)	[A2M2]
122	128.00	144.00	21.00	138.87	126.03	148.97	142.87	80.50	2.473 (J)	[A2M2]
123	128.00	144.00	24.00	134.05	120.77	151.86	146.56	162.56	2.480 (J)	[PC]
124	128.00	129.00	27.00	111.88	107.34	150.18	144.40	567.56	2.482 (J)	[A2M2]
125	128.00	124.00	15.00	132.05	109.56	140.06	132.92	85.07	2.487 (J)	[PC]
126	123.00	134.00	30.00	109.45	107.24	150.82	145.22	470.59	2.492 (J)	[PC]
127	133.00	134.00	15.00	133.74	119.02	145.87	141.70	126.56	2.501 (J)	[PC]
128	128.00	119.00	9.00	132.33	111.11	135.87	123.36	25.01	2.509 (J)	[PC]
129	138.00	139.00	9.00	139.47	130.12	146.49	141.97	50.42	2.532 (J)	[A2M2]
130	133.00	129.00	24.00	121.83	107.76	150.76	145.14	502.11	2.533 (J)	[A2M2]
131	128.00	124.00	15.00	132.05	109.56	140.06	132.92	85.07	2.539 (J)	[PC]
132	118.00	134.00	24.00	133.07	115.32	141.42	139.25	44.93	2.544 (J)	[A2M2]
133	133.00	129.00	24.00	121.83	107.76	150.76	145.14	502.11	2.555 (J)	[A2M2]
134	128.00	134.00	15.00	133.95	120.23	141.79	139.90	32.38	2.560 (J)	[A2M2]
135	128.00	144.00	24.00	134.05	120.77	151.86	146.56	162.56	2.562 (J)	[PC]

136	123.00	149.00	27.00	139.06	127.29	149.42	143.45	67.01	2.564 (J)	[A2M2]
137	128.00	144.00	21.00	138.87	126.03	148.97	142.87	80.50	2.584 (J)	[A2M2]
138	128.00	119.00	9.00	132.33	111.11	135.87	123.36	25.01	2.592 (J)	[PC]
139	133.00	129.00	15.00	132.84	114.00	142.81	140.35	122.85	2.611 (J)	[A2M2]
140	123.00	129.00	30.00	102.66	106.95	149.35	143.35	654.47	2.621 (J)	[A2M2]
141	133.00	134.00	9.00	139.07	127.35	141.13	137.87	9.12	2.633 (J)	[A2M2]
142	128.00	129.00	15.00	132.99	114.85	140.87	136.70	58.83	2.638 (J)	[PC]
143	138.00	139.00	15.00	138.58	124.01	151.33	145.87	171.42	2.640 (J)	[PC]
144	133.00	129.00	15.00	132.84	114.00	142.81	140.35	122.85	2.644 (J)	[A2M2]
145	123.00	129.00	30.00	102.66	106.95	149.35	143.35	654.47	2.654 (J)	[A2M2]
146	128.00	134.00	15.00	133.95	120.23	141.79	139.90	32.38	2.663 (J)	[A2M2]
147	128.00	129.00	24.00	117.21	107.56	148.02	142.23	389.05	2.672 (J)	[PC]
148	118.00	139.00	27.00	133.33	116.78	144.90	141.27	82.00	2.673 (J)	[PC]
149	123.00	149.00	27.00	139.06	127.29	149.42	143.45	67.01	2.677 (J)	[A2M2]
150	138.00	139.00	15.00	138.58	124.01	151.33	145.87	171.42	2.682 (J)	[PC]
151	138.00	134.00	15.00	133.84	119.59	149.54	143.59	219.62	2.686 (J)	[A2M2]
152	128.00	119.00	12.00	123.61	107.83	138.65	124.52	78.90	2.697 (J)	[A2M2]
153	133.00	129.00	21.00	130.66	108.13	148.87	142.75	365.63	2.699 (J)	[PC]
154	138.00	134.00	9.00	138.73	125.03	143.87	140.82	54.26	2.702 (J)	[A2M2]
155	138.00	134.00	18.00	133.31	116.62	151.42	145.99	316.30	2.712 (J)	[A2M2]
156	128.00	129.00	24.00	117.21	107.56	148.02	142.23	389.05	2.712 (J)	[PC]
157	128.00	129.00	15.00	132.99	114.85	140.87	136.70	58.83	2.713 (J)	[PC]
158	138.00	134.00	15.00	133.84	119.59	149.54	143.59	219.62	2.715 (J)	[A2M2]
159	118.00	134.00	30.00	104.84	107.04	146.86	142.20	310.15	2.719 (J)	[PC]
160	133.00	129.00	21.00	130.66	108.13	148.87	142.75	365.63	2.720 (J)	[PC]
161	128.00	149.00	24.00	139.12	127.73	151.88	146.57	89.61	2.728 (J)	[A2M2]
162	138.00	134.00	18.00	133.31	116.62	151.42	145.99	316.30	2.732 (J)	[A2M2]
163	118.00	149.00	30.00	139.11	127.69	147.23	142.23	45.61	2.738 (J)	[A2M2]
164	138.00	134.00	9.00	138.73	125.03	143.87	140.82	54.26	2.744 (J)	[A2M2]
165	133.00	134.00	9.00	139.07	127.35	141.13	137.87	9.12	2.749 (J)	[A2M2]
166	128.00	119.00	12.00	123.61	107.83	138.65	124.52	78.90	2.776 (J)	[A2M2]
167	138.00	139.00	12.00	139.02	127.04	149.24	143.21	104.18	2.779 (J)	[PC]
168	118.00	134.00	30.00	104.84	107.04	146.86	142.20	310.15	2.788 (J)	[PC]
169	118.00	139.00	27.00	133.33	116.78	144.90	141.27	82.00	2.794 (J)	[PC]
170	128.00	129.00	30.00	107.44	107.15	152.10	146.86	772.36	2.794 (J)	[A2M2]
171	128.00	129.00	30.00	107.44	107.15	152.10	146.86	772.36	2.818 (J)	[A2M2]
172	123.00	144.00	27.00	133.78	119.24	150.00	144.17	134.12	2.827 (J)	[PC]
173	138.00	134.00	12.00	134.36	122.57	146.80	142.16	125.71	2.836 (J)	[A2M2]
174	138.00	139.00	12.00	139.02	127.04	149.24	143.21	104.18	2.842 (J)	[PC]
175	128.00	149.00	24.00	139.12	127.73	151.88	146.57	89.61	2.846 (J)	[A2M2]
176	133.00	129.00	18.00	132.31	111.01	145.79	141.66	233.15	2.847 (J)	[PC]
177	128.00	124.00	12.00	132.65	112.94	139.20	128.30	44.40	2.858 (J)	[PC]
178	123.00	129.00	18.00	132.82	113.92	140.29	133.99	45.00	2.869 (J)	[PC]
179	118.00	149.00	30.00	139.11	127.69	147.23	142.23	45.61	2.870 (J)	[A2M2]
180	123.00	129.00	24.00	112.60	107.37	143.88	140.82	239.69	2.872 (J)	[PC]
181	133.00	129.00	18.00	132.31	111.01	145.79	141.66	233.15	2.873 (J)	[PC]
182	118.00	144.00	30.00	133.62	118.39	147.95	142.23	103.26	2.875 (J)	[PC]
183	138.00	134.00	12.00	134.36	122.57	146.80	142.16	125.71	2.881 (J)	[A2M2]
184	133.00	134.00	12.00	134.27	122.07	143.10	140.48	49.08	2.881 (J)	[PC]
185	118.00	129.00	30.00	97.88	106.75	145.30	141.45	502.81	2.897 (J)	[A2M2]
186	133.00	139.00	12.00	139.27	128.77	144.79	141.22	35.78	2.900 (J)	[PC]

187	123.00	154.00	30.00	139.27	128.80	152.16	146.94	72.46	2.916 (J)	[A2M2]
188	123.00	129.00	24.00	112.60	107.37	143.88	140.82	239.69	2.938 (J)	[PC]
189	118.00	129.00	30.00	97.88	106.75	145.30	141.45	502.81	2.942 (J)	[A2M2]
190	123.00	144.00	27.00	133.78	119.24	150.00	144.17	134.12	2.947 (J)	[PC]
191	128.00	124.00	12.00	132.65	112.94	139.20	128.30	44.40	2.955 (J)	[PC]
192	133.00	144.00	18.00	139.02	127.04	150.95	145.37	102.86	2.966 (J)	[PC]
193	133.00	134.00	12.00	134.27	122.07	143.10	140.48	49.08	2.970 (J)	[PC]
194	123.00	129.00	18.00	132.82	113.92	140.29	133.99	45.00	2.986 (J)	[PC]
195	133.00	129.00	12.00	133.38	117.01	141.12	137.84	58.57	2.987 (J)	[A2M2]
196	118.00	144.00	30.00	133.62	118.39	147.95	142.23	103.26	3.005 (J)	[PC]
197	118.00	129.00	27.00	102.43	106.94	142.55	140.24	282.52	3.009 (J)	[A2M2]
198	133.00	139.00	12.00	139.27	128.77	144.79	141.22	35.78	3.022 (J)	[PC]
199	128.00	124.00	18.00	120.37	107.70	140.85	136.60	150.15	3.033 (J)	[A2M2]
200	123.00	129.00	27.00	107.15	107.14	146.64	142.04	430.90	3.037 (J)	[PC]
201	118.00	134.00	24.00	133.07	115.32	141.42	139.25	44.93	3.043 (J)	[PC]
202	123.00	154.00	30.00	139.27	128.80	152.16	146.94	72.46	3.044 (J)	[A2M2]
203	133.00	129.00	12.00	133.38	117.01	141.12	137.84	58.57	3.049 (J)	[A2M2]
204	128.00	129.00	27.00	111.88	107.34	150.18	144.40	567.56	3.066 (J)	[PC]
205	138.00	139.00	9.00	139.47	130.12	146.49	141.97	50.42	3.073 (J)	[PC]
206	133.00	144.00	18.00	139.02	127.04	150.95	145.37	102.86	3.075 (J)	[PC]
207	118.00	129.00	27.00	102.43	106.94	142.55	140.24	282.52	3.075 (J)	[A2M2]
208	123.00	129.00	27.00	107.15	107.14	146.64	142.04	430.90	3.087 (J)	[PC]
209	128.00	144.00	21.00	138.87	126.03	148.97	142.87	80.50	3.092 (J)	[PC]
210	128.00	124.00	18.00	120.37	107.70	140.85	136.60	150.15	3.096 (J)	[A2M2]
211	128.00	129.00	27.00	111.88	107.34	150.18	144.40	567.56	3.102 (J)	[PC]
212	138.00	139.00	9.00	139.47	130.12	146.49	141.97	50.42	3.165 (J)	[PC]
213	133.00	129.00	24.00	121.83	107.76	150.76	145.14	502.11	3.166 (J)	[PC]
214	133.00	144.00	15.00	139.54	130.50	147.90	142.23	45.87	3.173 (J)	[A2M2]
215	118.00	134.00	24.00	133.07	115.32	141.42	139.25	44.93	3.180 (J)	[PC]
216	138.00	139.00	6.00	140.17	133.41	143.74	140.76	14.75	3.184 (J)	[A2M2]
217	133.00	129.00	24.00	121.83	107.76	150.76	145.14	502.11	3.193 (J)	[PC]
218	128.00	134.00	15.00	133.95	120.23	141.79	139.90	32.38	3.200 (J)	[PC]
219	123.00	149.00	27.00	139.06	127.29	149.42	143.45	67.01	3.205 (J)	[PC]
220	128.00	144.00	21.00	138.87	126.03	148.97	142.87	80.50	3.230 (J)	[PC]
221	133.00	129.00	15.00	132.84	114.00	142.81	140.35	122.85	3.263 (J)	[PC]
222	123.00	129.00	30.00	102.66	106.95	149.35	143.35	654.47	3.276 (J)	[PC]
223	133.00	134.00	9.00	139.07	127.35	141.13	137.87	9.12	3.291 (J)	[PC]
224	133.00	129.00	15.00	132.84	114.00	142.81	140.35	122.85	3.305 (J)	[PC]
225	128.00	149.00	21.00	139.78	131.62	147.88	142.23	34.48	3.316 (J)	[A2M2]
226	123.00	129.00	30.00	102.66	106.95	149.35	143.35	654.47	3.317 (J)	[PC]
227	133.00	144.00	15.00	139.54	130.50	147.90	142.23	45.87	3.318 (J)	[A2M2]
228	138.00	139.00	6.00	140.17	133.41	143.74	140.76	14.75	3.318 (J)	[A2M2]
229	128.00	134.00	15.00	133.95	120.23	141.79	139.90	32.38	3.329 (J)	[PC]
230	113.00	139.00	30.00	133.37	116.98	142.97	140.42	43.83	3.333 (J)	[A2M2]
231	133.00	124.00	9.00	133.02	115.00	139.49	130.24	45.86	3.337 (J)	[A2M2]
232	123.00	149.00	27.00	139.06	127.29	149.42	143.45	67.01	3.346 (J)	[PC]
233	138.00	134.00	15.00	133.84	119.59	149.54	143.59	219.62	3.357 (J)	[PC]
234	133.00	124.00	12.00	132.49	112.01	140.21	133.59	80.44	3.361 (J)	[A2M2]
235	128.00	119.00	12.00	123.61	107.83	138.65	124.52	78.90	3.371 (J)	[PC]
236	138.00	134.00	9.00	138.73	125.03	143.87	140.82	54.26	3.378 (J)	[PC]
237	138.00	134.00	18.00	133.31	116.62	151.42	145.99	316.30	3.390 (J)	[PC]

238	138.00	134.00	15.00	133.84	119.59	149.54	143.59	219.62	3.394 (J)	[PC]
239	138.00	129.00	21.00	131.94	108.89	151.02	145.47	457.92	3.397 (J)	[A2M2]
240	138.00	129.00	21.00	131.94	108.89	151.02	145.47	457.92	3.400 (J)	[A2M2]
241	133.00	124.00	12.00	132.49	112.01	140.21	133.59	80.44	3.405 (J)	[A2M2]
242	133.00	124.00	9.00	133.02	115.00	139.49	130.24	45.86	3.408 (J)	[A2M2]
243	128.00	149.00	24.00	139.12	127.73	151.88	146.57	89.61	3.410 (J)	[PC]
244	138.00	134.00	18.00	133.31	116.62	151.42	145.99	316.30	3.415 (J)	[PC]
245	133.00	119.00	9.00	132.14	110.04	138.85	125.84	70.41	3.415 (J)	[A2M2]
246	123.00	124.00	21.00	110.30	107.27	140.61	135.45	207.13	3.419 (J)	[A2M2]
247	118.00	149.00	30.00	139.11	127.69	147.23	142.23	45.61	3.423 (J)	[PC]
248	138.00	134.00	9.00	138.73	125.03	143.87	140.82	54.26	3.430 (J)	[PC]
249	133.00	134.00	9.00	139.07	127.35	141.13	137.87	9.12	3.436 (J)	[PC]
250	123.00	124.00	15.00	132.56	112.44	137.99	123.44	29.55	3.460 (J)	[A2M2]
251	133.00	119.00	9.00	132.14	110.04	138.85	125.84	70.41	3.460 (J)	[A2M2]
252	133.00	119.00	6.00	132.66	113.01	137.07	123.41	34.08	3.464 (J)	[A2M2]
253	128.00	149.00	21.00	139.78	131.62	147.88	142.23	34.48	3.466 (J)	[A2M2]
254	128.00	119.00	12.00	123.61	107.83	138.65	124.52	78.90	3.470 (J)	[PC]
255	128.00	144.00	18.00	139.47	130.12	145.85	141.69	29.98	3.478 (J)	[A2M2]
256	118.00	129.00	21.00	132.87	114.17	138.25	123.45	22.02	3.489 (J)	[A2M2]
257	123.00	124.00	21.00	110.30	107.27	140.61	135.45	207.13	3.492 (J)	[A2M2]
258	128.00	129.00	30.00	107.44	107.15	152.10	146.86	772.36	3.492 (J)	[PC]
259	138.00	129.00	18.00	132.46	111.87	149.16	143.12	344.23	3.497 (J)	[A2M2]
260	138.00	129.00	18.00	132.46	111.87	149.16	143.12	344.23	3.505 (J)	[A2M2]
261	128.00	139.00	15.00	139.32	129.16	142.93	140.41	16.53	3.507 (J)	[A2M2]
262	113.00	139.00	30.00	133.37	116.98	142.97	140.42	43.83	3.512 (J)	[A2M2]
263	133.00	124.00	15.00	131.96	109.04	140.89	136.76	122.01	3.518 (J)	[A2M2]
264	128.00	129.00	30.00	107.44	107.15	152.10	146.86	772.36	3.523 (J)	[PC]
265	133.00	119.00	6.00	132.66	113.01	137.07	123.41	34.08	3.530 (J)	[A2M2]
266	138.00	134.00	12.00	134.36	122.57	146.80	142.16	125.71	3.545 (J)	[PC]
267	133.00	124.00	15.00	131.96	109.04	140.89	136.76	122.01	3.545 (J)	[A2M2]
268	128.00	149.00	24.00	139.12	127.73	151.88	146.57	89.61	3.557 (J)	[PC]
269	118.00	149.00	30.00	139.11	127.69	147.23	142.23	45.61	3.587 (J)	[PC]
270	133.00	129.00	9.00	133.92	120.05	140.34	134.21	23.40	3.599 (J)	[A2M2]
271	138.00	134.00	12.00	134.36	122.57	146.80	142.16	125.71	3.601 (J)	[PC]
272	118.00	129.00	30.00	97.88	106.75	145.30	141.45	502.81	3.621 (J)	[PC]
273	123.00	154.00	30.00	139.27	128.80	152.16	146.94	72.46	3.645 (J)	[PC]
274	123.00	124.00	15.00	132.56	112.44	137.99	123.44	29.55	3.650 (J)	[A2M2]
275	138.00	134.00	6.00	139.18	128.12	141.36	138.97	11.65	3.651 (J)	[A2M2]
276	128.00	144.00	18.00	139.47	130.12	145.85	141.69	29.98	3.659 (J)	[A2M2]
277	118.00	129.00	21.00	132.87	114.17	138.25	123.45	22.02	3.665 (J)	[A2M2]
278	118.00	129.00	30.00	97.88	106.75	145.30	141.45	502.81	3.678 (J)	[PC]
279	128.00	139.00	15.00	139.32	129.16	142.93	140.41	16.53	3.700 (J)	[A2M2]
280	133.00	129.00	9.00	133.92	120.05	140.34	134.21	23.40	3.725 (J)	[A2M2]
281	133.00	129.00	12.00	133.38	117.01	141.12	137.84	58.57	3.734 (J)	[PC]
282	138.00	134.00	6.00	139.18	128.12	141.36	138.97	11.65	3.745 (J)	[A2M2]
283	118.00	129.00	27.00	102.43	106.94	142.55	140.24	282.52	3.761 (J)	[PC]
284	128.00	124.00	24.00	110.77	107.29	144.74	141.20	451.74	3.775 (J)	[A2M2]
285	128.00	124.00	27.00	106.92	107.13	147.92	142.23	691.09	3.786 (J)	[A2M2]
286	128.00	124.00	18.00	120.37	107.70	140.85	136.60	150.15	3.791 (J)	[PC]
287	123.00	154.00	30.00	139.27	128.80	152.16	146.94	72.46	3.805 (J)	[PC]
288	133.00	129.00	12.00	133.38	117.01	141.12	137.84	58.57	3.811 (J)	[PC]

289	128.00	124.00	24.00	110.77	107.29	144.74	141.20	451.74	3.812 (J)	[A2M2]
290	128.00	124.00	27.00	106.92	107.13	147.92	142.23	691.09	3.812 (J)	[A2M2]
291	133.00	149.00	18.00	139.95	132.40	150.51	144.81	45.78	3.839 (J)	[A2M2]
292	118.00	129.00	27.00	102.43	106.94	142.55	140.24	282.52	3.844 (J)	[PC]
293	128.00	124.00	18.00	120.37	107.70	140.85	136.60	150.15	3.870 (J)	[PC]
294	128.00	124.00	21.00	115.05	107.47	141.74	139.88	252.81	3.894 (J)	[A2M2]
295	128.00	119.00	15.00	118.24	107.61	139.28	128.88	150.43	3.898 (J)	[A2M2]
296	123.00	149.00	24.00	139.85	131.91	145.86	141.70	20.78	3.909 (J)	[A2M2]
297	123.00	119.00	15.00	113.48	107.41	137.33	123.42	105.06	3.914 (J)	[A2M2]
298	138.00	144.00	12.00	139.90	132.15	150.00	144.17	56.70	3.927 (J)	[A2M2]
299	128.00	124.00	21.00	115.05	107.47	141.74	139.88	252.81	3.950 (J)	[A2M2]
300	133.00	124.00	24.00	115.58	107.49	148.52	142.31	580.98	3.961 (J)	[A2M2]
301	133.00	144.00	15.00	139.54	130.50	147.90	142.23	45.87	3.966 (J)	[PC]
302	128.00	119.00	15.00	118.24	107.61	139.28	128.88	150.43	3.974 (J)	[A2M2]
303	138.00	139.00	6.00	140.17	133.41	143.74	140.76	14.75	3.980 (J)	[PC]
304	123.00	154.00	27.00	140.10	133.11	147.30	142.23	22.69	3.982 (J)	[A2M2]
305	133.00	124.00	24.00	115.58	107.49	148.52	142.31	580.98	3.982 (J)	[A2M2]
306	133.00	149.00	18.00	139.95	132.40	150.51	144.81	45.78	4.009 (J)	[A2M2]
307	123.00	124.00	27.00	102.08	106.92	144.06	140.90	557.85	4.013 (J)	[A2M2]
308	123.00	119.00	15.00	113.48	107.41	137.33	123.42	105.06	4.029 (J)	[A2M2]
309	123.00	124.00	30.00	98.44	106.77	146.85	142.20	812.22	4.048 (J)	[A2M2]
310	123.00	124.00	27.00	102.08	106.92	144.06	140.90	557.85	4.051 (J)	[A2M2]
311	123.00	124.00	30.00	98.44	106.77	146.85	142.20	812.22	4.075 (J)	[A2M2]
312	113.00	129.00	30.00	93.10	106.55	141.33	138.86	356.83	4.090 (J)	[A2M2]
313	143.00	144.00	9.00	140.58	135.33	151.69	146.34	60.30	4.098 (J)	[A2M2]
314	138.00	144.00	12.00	139.90	132.15	150.00	144.17	56.70	4.099 (J)	[A2M2]
315	123.00	149.00	24.00	139.85	131.91	145.86	141.70	20.78	4.107 (J)	[A2M2]
316	118.00	124.00	24.00	101.17	106.89	140.14	133.27	286.51	4.137 (J)	[A2M2]
317	123.00	124.00	24.00	105.97	107.09	141.44	139.36	341.05	4.139 (J)	[A2M2]
318	128.00	149.00	21.00	139.78	131.62	147.88	142.23	34.48	4.145 (J)	[PC]
319	133.00	144.00	15.00	139.54	130.50	147.90	142.23	45.87	4.147 (J)	[PC]
320	138.00	139.00	6.00	140.17	133.41	143.74	140.76	14.75	4.148 (J)	[PC]
321	133.00	124.00	21.00	119.79	107.67	144.93	141.28	357.58	4.153 (J)	[A2M2]
322	113.00	139.00	30.00	133.37	116.98	142.97	140.42	43.83	4.166 (J)	[PC]
323	128.00	154.00	24.00	140.14	133.30	149.76	143.87	31.83	4.168 (J)	[A2M2]
324	123.00	154.00	27.00	140.10	133.11	147.30	142.23	22.69	4.170 (J)	[A2M2]
325	133.00	124.00	9.00	133.02	115.00	139.49	130.24	45.86	4.171 (J)	[PC]
326	113.00	129.00	30.00	93.10	106.55	141.33	138.86	356.83	4.171 (J)	[A2M2]
327	133.00	124.00	21.00	119.79	107.67	144.93	141.28	357.58	4.182 (J)	[A2M2]
328	123.00	124.00	24.00	105.97	107.09	141.44	139.36	341.05	4.196 (J)	[A2M2]
329	128.00	124.00	30.00	103.30	106.98	150.09	144.29	924.87	4.197 (J)	[A2M2]
330	133.00	124.00	12.00	132.49	112.01	140.21	133.59	80.44	4.201 (J)	[PC]
331	128.00	124.00	30.00	103.30	106.98	150.09	144.29	924.87	4.215 (J)	[A2M2]
332	118.00	124.00	24.00	101.17	106.89	140.14	133.27	286.51	4.218 (J)	[A2M2]
333	143.00	144.00	9.00	140.58	135.33	151.69	146.34	60.30	4.218 (J)	[A2M2]
334	138.00	129.00	21.00	131.94	108.89	151.02	145.47	457.92	4.246 (J)	[PC]
335	138.00	129.00	21.00	131.94	108.89	151.02	145.47	457.92	4.250 (J)	[PC]
336	133.00	124.00	12.00	132.49	112.01	140.21	133.59	80.44	4.256 (J)	[PC]
337	133.00	124.00	9.00	133.02	115.00	139.49	130.24	45.86	4.260 (J)	[PC]
338	123.00	119.00	18.00	109.38	107.23	139.04	127.17	221.32	4.263 (J)	[A2M2]
339	133.00	119.00	9.00	132.14	110.04	138.85	125.84	70.41	4.269 (J)	[PC]

340	123.00	124.00	21.00	110.30	107.27	140.61	135.45	207.13	4.274 (J)	[PC]
341	123.00	124.00	15.00	132.56	112.44	137.99	123.44	29.55	4.325 (J)	[PC]
342	133.00	119.00	9.00	132.14	110.04	138.85	125.84	70.41	4.325 (J)	[PC]
343	133.00	119.00	6.00	132.66	113.01	137.07	123.41	34.08	4.331 (J)	[PC]
344	128.00	149.00	21.00	139.78	131.62	147.88	142.23	34.48	4.332 (J)	[PC]
345	123.00	119.00	18.00	109.38	107.23	139.04	127.17	221.32	4.344 (J)	[A2M2]
346	128.00	144.00	18.00	139.47	130.12	145.85	141.69	29.98	4.347 (J)	[PC]
347	128.00	154.00	24.00	140.14	133.30	149.76	143.87	31.83	4.354 (J)	[A2M2]
348	118.00	129.00	21.00	132.87	114.17	138.25	123.45	22.02	4.361 (J)	[PC]
349	123.00	124.00	21.00	110.30	107.27	140.61	135.45	207.13	4.365 (J)	[PC]
350	138.00	129.00	15.00	132.99	114.86	145.94	141.73	211.42	4.369 (J)	[A2M2]
351	138.00	129.00	18.00	132.46	111.87	149.16	143.12	344.23	4.371 (J)	[PC]
352	138.00	129.00	15.00	132.99	114.86	145.94	141.73	211.42	4.381 (J)	[A2M2]
353	138.00	129.00	18.00	132.46	111.87	149.16	143.12	344.23	4.381 (J)	[PC]
354	128.00	139.00	15.00	139.32	129.16	142.93	140.41	16.53	4.384 (J)	[PC]
355	113.00	139.00	30.00	133.37	116.98	142.97	140.42	43.83	4.390 (J)	[PC]
356	133.00	124.00	15.00	131.96	109.04	140.89	136.76	122.01	4.398 (J)	[PC]
357	133.00	119.00	6.00	132.66	113.01	137.07	123.41	34.08	4.412 (J)	[PC]
358	133.00	124.00	15.00	131.96	109.04	140.89	136.76	122.01	4.432 (J)	[PC]
359	133.00	129.00	9.00	133.92	120.05	140.34	134.21	23.40	4.499 (J)	[PC]
360	118.00	124.00	27.00	97.25	106.72	141.14	137.92	456.82	4.534 (J)	[A2M2]
361	133.00	124.00	27.00	111.76	107.33	150.38	144.66	772.95	4.543 (J)	[A2M2]
362	133.00	124.00	27.00	111.76	107.33	150.38	144.66	772.95	4.555 (J)	[A2M2]
363	118.00	124.00	30.00	93.59	106.57	143.08	140.47	681.32	4.559 (J)	[A2M2]
364	123.00	124.00	15.00	132.56	112.44	137.99	123.44	29.55	4.563 (J)	[PC]
365	138.00	134.00	6.00	139.18	128.12	141.36	138.97	11.65	4.564 (J)	[PC]
366	128.00	144.00	18.00	139.47	130.12	145.85	141.69	29.98	4.573 (J)	[PC]
367	133.00	124.00	6.00	133.56	118.03	138.80	125.53	19.25	4.578 (J)	[A2M2]
368	118.00	129.00	21.00	132.87	114.17	138.25	123.45	22.02	4.581 (J)	[PC]
369	118.00	124.00	27.00	97.25	106.72	141.14	137.92	456.82	4.591 (J)	[A2M2]
370	133.00	124.00	18.00	124.97	107.89	141.59	139.82	180.62	4.597 (J)	[A2M2]
371	118.00	124.00	30.00	93.59	106.57	143.08	140.47	681.32	4.597 (J)	[A2M2]
372	133.00	119.00	12.00	128.15	108.03	139.33	129.20	103.80	4.613 (J)	[A2M2]
373	128.00	139.00	15.00	139.32	129.16	142.93	140.41	16.53	4.625 (J)	[PC]
374	133.00	124.00	18.00	124.97	107.89	141.59	139.82	180.62	4.639 (J)	[A2M2]
375	133.00	129.00	9.00	133.92	120.05	140.34	134.21	23.40	4.656 (J)	[PC]
376	133.00	119.00	12.00	128.15	108.03	139.33	129.20	103.80	4.668 (J)	[A2M2]
377	138.00	134.00	6.00	139.18	128.12	141.36	138.97	11.65	4.682 (J)	[PC]
378	128.00	124.00	24.00	110.77	107.29	144.74	141.20	451.74	4.719 (J)	[PC]
379	128.00	124.00	27.00	106.92	107.13	147.92	142.23	691.09	4.733 (J)	[PC]
380	133.00	124.00	6.00	133.56	118.03	138.80	125.53	19.25	4.763 (J)	[A2M2]
381	128.00	124.00	24.00	110.77	107.29	144.74	141.20	451.74	4.765 (J)	[PC]
382	128.00	124.00	27.00	106.92	107.13	147.92	142.23	691.09	4.765 (J)	[PC]
383	133.00	149.00	18.00	139.95	132.40	150.51	144.81	45.78	4.799 (J)	[PC]
384	128.00	124.00	21.00	115.05	107.47	141.74	139.88	252.81	4.868 (J)	[PC]
385	128.00	129.00	12.00	133.63	118.40	139.75	131.45	16.50	4.868 (J)	[A2M2]
386	128.00	119.00	15.00	118.24	107.61	139.28	128.88	150.43	4.872 (J)	[PC]
387	123.00	149.00	24.00	139.85	131.91	145.86	141.70	20.78	4.886 (J)	[PC]
388	123.00	119.00	15.00	113.48	107.41	137.33	123.42	105.06	4.892 (J)	[PC]
389	138.00	144.00	12.00	139.90	132.15	150.00	144.17	56.70	4.909 (J)	[PC]
390	128.00	124.00	21.00	115.05	107.47	141.74	139.88	252.81	4.937 (J)	[PC]

391	133.00	124.00	24.00	115.58	107.49	148.52	142.31	580.98	4.951 (J)	[PC]
392	128.00	119.00	15.00	118.24	107.61	139.28	128.88	150.43	4.968 (J)	[PC]
393	123.00	154.00	27.00	140.10	133.11	147.30	142.23	22.69	4.977 (J)	[PC]
394	133.00	124.00	24.00	115.58	107.49	148.52	142.31	580.98	4.978 (J)	[PC]
395	133.00	149.00	18.00	139.95	132.40	150.51	144.81	45.78	5.011 (J)	[PC]
396	123.00	124.00	27.00	102.08	106.92	144.06	140.90	557.85	5.016 (J)	[PC]
397	123.00	144.00	21.00	139.71	131.28	143.75	140.76	12.93	5.028 (J)	[A2M2]
398	123.00	119.00	15.00	113.48	107.41	137.33	123.42	105.06	5.037 (J)	[PC]
399	118.00	119.00	21.00	100.86	106.87	138.51	123.52	311.70	5.048 (J)	[A2M2]
400	123.00	124.00	30.00	98.44	106.77	146.85	142.20	812.22	5.060 (J)	[PC]
401	123.00	124.00	27.00	102.08	106.92	144.06	140.90	557.85	5.064 (J)	[PC]
402	123.00	124.00	30.00	98.44	106.77	146.85	142.20	812.22	5.094 (J)	[PC]
403	128.00	129.00	12.00	133.63	118.40	139.75	131.45	16.50	5.110 (J)	[A2M2]
404	113.00	129.00	30.00	93.10	106.55	141.33	138.86	356.83	5.113 (J)	[PC]
405	143.00	144.00	9.00	140.58	135.33	151.69	146.34	60.30	5.123 (J)	[PC]
406	138.00	144.00	12.00	139.90	132.15	150.00	144.17	56.70	5.124 (J)	[PC]
407	113.00	124.00	30.00	88.73	106.36	140.65	135.64	592.96	5.126 (J)	[A2M2]
408	123.00	149.00	24.00	139.85	131.91	145.86	141.70	20.78	5.133 (J)	[PC]
409	138.00	129.00	3.00	138.89	126.13	139.75	131.44	2.30	5.135 (J)	[A2M2]
410	118.00	119.00	21.00	100.86	106.87	138.51	123.52	311.70	5.138 (J)	[A2M2]
411	118.00	124.00	24.00	101.17	106.89	140.14	133.27	286.51	5.171 (J)	[PC]
412	123.00	124.00	24.00	105.97	107.09	141.44	139.36	341.05	5.173 (J)	[PC]
413	113.00	124.00	30.00	88.73	106.36	140.65	135.64	592.96	5.181 (J)	[A2M2]
414	133.00	124.00	21.00	119.79	107.67	144.93	141.28	357.58	5.191 (J)	[PC]
415	128.00	154.00	24.00	140.14	133.30	149.76	143.87	31.83	5.209 (J)	[PC]
416	123.00	154.00	27.00	140.10	133.11	147.30	142.23	22.69	5.212 (J)	[PC]
417	113.00	129.00	30.00	93.10	106.55	141.33	138.86	356.83	5.214 (J)	[PC]
418	133.00	124.00	21.00	119.79	107.67	144.93	141.28	357.58	5.228 (J)	[PC]
419	128.00	124.00	9.00	133.33	116.75	136.98	123.40	12.34	5.237 (J)	[A2M2]
420	123.00	124.00	24.00	105.97	107.09	141.44	139.36	341.05	5.246 (J)	[PC]
421	128.00	124.00	30.00	103.30	106.98	150.09	144.29	924.87	5.246 (J)	[PC]
422	128.00	124.00	30.00	103.30	106.98	150.09	144.29	924.87	5.269 (J)	[PC]
423	118.00	124.00	24.00	101.17	106.89	140.14	133.27	286.51	5.272 (J)	[PC]
424	143.00	144.00	9.00	140.58	135.33	151.69	146.34	60.30	5.273 (J)	[PC]
425	123.00	144.00	21.00	139.71	131.28	143.75	140.76	12.93	5.315 (J)	[A2M2]
426	138.00	129.00	3.00	138.89	126.13	139.75	131.44	2.30	5.325 (J)	[A2M2]
427	123.00	119.00	18.00	109.38	107.23	139.04	127.17	221.32	5.328 (J)	[PC]
428	113.00	124.00	27.00	92.42	106.52	139.40	129.67	386.31	5.373 (J)	[A2M2]
429	123.00	119.00	18.00	109.38	107.23	139.04	127.17	221.32	5.430 (J)	[PC]
430	128.00	154.00	24.00	140.14	133.30	149.76	143.87	31.83	5.443 (J)	[PC]
431	133.00	144.00	12.00	140.42	134.57	144.66	141.17	10.85	5.452 (J)	[A2M2]
432	138.00	129.00	15.00	132.99	114.86	145.94	141.73	211.42	5.461 (J)	[PC]
433	113.00	124.00	27.00	92.42	106.52	139.40	129.67	386.31	5.468 (J)	[A2M2]
434	138.00	144.00	9.00	140.59	135.38	146.81	142.17	18.23	5.470 (J)	[A2M2]
435	138.00	129.00	15.00	132.99	114.86	145.94	141.73	211.42	5.477 (J)	[PC]
436	123.00	119.00	21.00	105.71	107.08	139.78	131.62	349.24	5.480 (J)	[A2M2]
437	128.00	119.00	18.00	114.21	107.44	139.96	132.45	244.61	5.538 (J)	[A2M2]
438	128.00	124.00	9.00	133.33	116.75	136.98	123.40	12.34	5.538 (J)	[A2M2]
439	123.00	119.00	21.00	105.71	107.08	139.78	131.62	349.24	5.542 (J)	[A2M2]
440	128.00	119.00	18.00	114.21	107.44	139.96	132.45	244.61	5.602 (J)	[A2M2]
441	138.00	124.00	21.00	124.55	107.87	148.42	142.23	474.76	5.618 (J)	[A2M2]

442	138.00	124.00	21.00	124.55	107.87	148.42	142.23	474.76	5.629 (J)	[A2M2]
443	118.00	124.00	27.00	97.25	106.72	141.14	137.92	456.82	5.668 (J)	[PC]
444	133.00	124.00	27.00	111.76	107.33	150.38	144.66	772.95	5.679 (J)	[PC]
445	133.00	124.00	27.00	111.76	107.33	150.38	144.66	772.95	5.694 (J)	[PC]
446	118.00	124.00	30.00	93.59	106.57	143.08	140.47	681.32	5.699 (J)	[PC]
447	133.00	124.00	6.00	133.56	118.03	138.80	125.53	19.25	5.722 (J)	[PC]
448	138.00	144.00	9.00	140.59	135.38	146.81	142.17	18.23	5.733 (J)	[A2M2]
449	118.00	124.00	27.00	97.25	106.72	141.14	137.92	456.82	5.739 (J)	[PC]
450	133.00	144.00	12.00	140.42	134.57	144.66	141.17	10.85	5.742 (J)	[A2M2]
451	133.00	124.00	18.00	124.97	107.89	141.59	139.82	180.62	5.747 (J)	[PC]
452	118.00	124.00	30.00	93.59	106.57	143.08	140.47	681.32	5.747 (J)	[PC]
453	133.00	119.00	12.00	128.15	108.03	139.33	129.20	103.80	5.766 (J)	[PC]
454	133.00	124.00	18.00	124.97	107.89	141.59	139.82	180.62	5.799 (J)	[PC]
455	118.00	119.00	24.00	97.38	106.73	139.42	129.83	474.95	5.816 (J)	[A2M2]
456	133.00	119.00	12.00	128.15	108.03	139.33	129.20	103.80	5.835 (J)	[PC]
457	118.00	119.00	24.00	97.38	106.73	139.42	129.83	474.95	5.874 (J)	[A2M2]
458	133.00	124.00	6.00	133.56	118.03	138.80	125.53	19.25	5.953 (J)	[PC]
459	128.00	129.00	12.00	133.63	118.40	139.75	131.45	16.50	6.085 (J)	[PC]
460	138.00	124.00	24.00	120.39	107.70	150.33	144.59	636.00	6.090 (J)	[A2M2]
461	138.00	124.00	24.00	120.39	107.70	150.33	144.59	636.00	6.110 (J)	[A2M2]
462	123.00	144.00	21.00	139.71	131.28	143.75	140.76	12.93	6.285 (J)	[PC]
463	118.00	119.00	21.00	100.86	106.87	138.51	123.52	311.70	6.310 (J)	[PC]
464	133.00	149.00	15.00	140.76	136.16	146.18	141.84	10.36	6.315 (J)	[A2M2]
465	113.00	119.00	27.00	89.13	106.38	138.94	126.49	622.49	6.336 (J)	[A2M2]
466	128.00	129.00	12.00	133.63	118.40	139.75	131.45	16.50	6.387 (J)	[PC]
467	113.00	119.00	27.00	89.13	106.38	138.94	126.49	622.49	6.393 (J)	[A2M2]
468	113.00	124.00	30.00	88.73	106.36	140.65	135.64	592.96	6.408 (J)	[PC]
469	138.00	129.00	3.00	138.89	126.13	139.75	131.44	2.30	6.418 (J)	[PC]
470	118.00	119.00	21.00	100.86	106.87	138.51	123.52	311.70	6.423 (J)	[PC]
471	113.00	124.00	30.00	88.73	106.36	140.65	135.64	592.96	6.476 (J)	[PC]
472	128.00	124.00	9.00	133.33	116.75	136.98	123.40	12.34	6.546 (J)	[PC]
473	133.00	149.00	15.00	140.76	136.16	146.18	141.84	10.36	6.625 (J)	[A2M2]
474	123.00	144.00	21.00	139.71	131.28	143.75	140.76	12.93	6.644 (J)	[PC]
475	138.00	129.00	3.00	138.89	126.13	139.75	131.44	2.30	6.656 (J)	[PC]
476	138.00	124.00	27.00	116.60	107.54	152.19	146.97	825.26	6.714 (J)	[A2M2]
477	113.00	124.00	27.00	92.42	106.52	139.40	129.67	386.31	6.717 (J)	[PC]
478	138.00	124.00	27.00	116.60	107.54	152.19	146.97	825.26	6.751 (J)	[A2M2]
479	118.00	119.00	18.00	104.56	107.03	135.47	123.34	154.29	6.800 (J)	[A2M2]
480	133.00	144.00	12.00	140.42	134.57	144.66	141.17	10.85	6.815 (J)	[PC]
481	113.00	124.00	27.00	92.42	106.52	139.40	129.67	386.31	6.835 (J)	[PC]
482	138.00	144.00	9.00	140.59	135.38	146.81	142.17	18.23	6.838 (J)	[PC]
483	123.00	119.00	21.00	105.71	107.08	139.78	131.62	349.24	6.850 (J)	[PC]
484	128.00	119.00	18.00	114.21	107.44	139.96	132.45	244.61	6.922 (J)	[PC]
485	128.00	124.00	9.00	133.33	116.75	136.98	123.40	12.34	6.922 (J)	[PC]
486	123.00	119.00	21.00	105.71	107.08	139.78	131.62	349.24	6.927 (J)	[PC]
487	133.00	139.00	9.00	140.21	133.62	141.95	139.97	3.84	6.936 (J)	[A2M2]
488	118.00	119.00	18.00	104.56	107.03	135.47	123.34	154.29	6.965 (J)	[A2M2]
489	118.00	119.00	27.00	94.02	106.58	140.33	134.17	659.12	6.980 (J)	[A2M2]
490	128.00	119.00	18.00	114.21	107.44	139.96	132.45	244.61	7.003 (J)	[PC]
491	118.00	119.00	27.00	94.02	106.58	140.33	134.17	659.12	7.008 (J)	[A2M2]
492	138.00	124.00	21.00	124.55	107.87	148.42	142.23	474.76	7.022 (J)	[PC]

493	113.00	119.00	24.00	92.50	106.52	136.60	123.39	414.25	7.027 (J)	[A2M2]
494	138.00	124.00	21.00	124.55	107.87	148.42	142.23	474.76	7.036 (J)	[PC]
495	113.00	119.00	30.00	85.85	106.24	139.92	132.24	839.28	7.053 (J)	[A2M2]
496	113.00	119.00	30.00	85.85	106.24	139.92	132.24	839.28	7.074 (J)	[A2M2]
497	123.00	114.00	18.00	106.37	107.11	138.32	123.45	363.54	7.099 (J)	[A2M2]
498	113.00	119.00	24.00	92.50	106.52	136.60	123.39	414.25	7.122 (J)	[A2M2]
499	133.00	119.00	15.00	123.01	107.81	139.93	132.30	163.12	7.126 (J)	[A2M2]
500	123.00	119.00	24.00	102.25	106.93	140.58	135.34	498.85	7.136 (J)	[A2M2]
501	123.00	114.00	18.00	106.37	107.11	138.32	123.45	363.54	7.161 (J)	[A2M2]
502	138.00	144.00	9.00	140.59	135.38	146.81	142.17	18.23	7.166 (J)	[PC]
503	123.00	119.00	24.00	102.25	106.93	140.58	135.34	498.85	7.167 (J)	[A2M2]
504	133.00	119.00	15.00	123.01	107.81	139.93	132.30	163.12	7.174 (J)	[A2M2]
505	133.00	144.00	12.00	140.42	134.57	144.66	141.17	10.85	7.178 (J)	[PC]
506	108.00	119.00	30.00	80.95	106.04	137.67	123.43	784.14	7.236 (J)	[A2M2]
507	118.00	119.00	24.00	97.38	106.73	139.42	129.83	474.95	7.270 (J)	[PC]
508	108.00	119.00	30.00	80.95	106.04	137.67	123.43	784.14	7.283 (J)	[A2M2]
509	133.00	139.00	9.00	140.21	133.62	141.95	139.97	3.84	7.341 (J)	[A2M2]
510	118.00	119.00	24.00	97.38	106.73	139.42	129.83	474.95	7.343 (J)	[PC]
511	138.00	149.00	12.00	141.02	137.39	147.91	142.23	12.36	7.503 (J)	[A2M2]
512	133.00	119.00	3.00	133.20	116.01	134.22	121.74	2.81	7.603 (J)	[A2M2]
513	138.00	124.00	24.00	120.39	107.70	150.33	144.59	636.00	7.612 (J)	[PC]
514	138.00	124.00	24.00	120.39	107.70	150.33	144.59	636.00	7.638 (J)	[PC]
515	128.00	114.00	15.00	114.51	107.45	138.66	124.55	251.71	7.769 (J)	[A2M2]
516	108.00	124.00	30.00	83.88	106.16	137.99	123.44	508.20	7.773 (J)	[A2M2]
517	128.00	114.00	15.00	114.51	107.45	138.66	124.55	251.71	7.832 (J)	[A2M2]
518	133.00	119.00	3.00	133.20	116.01	134.22	121.74	2.81	7.837 (J)	[A2M2]
519	138.00	149.00	12.00	141.02	137.39	147.91	142.23	12.36	7.839 (J)	[A2M2]
520	133.00	149.00	15.00	140.76	136.16	146.18	141.84	10.36	7.894 (J)	[PC]
521	108.00	124.00	30.00	83.88	106.16	137.99	123.44	508.20	7.902 (J)	[A2M2]
522	138.00	129.00	12.00	133.53	117.86	142.39	140.17	92.84	7.905 (J)	[A2M2]
523	138.00	129.00	12.00	133.53	117.86	142.39	140.17	92.84	7.913 (J)	[A2M2]
524	113.00	119.00	27.00	89.13	106.38	138.94	126.49	622.49	7.921 (J)	[PC]
525	128.00	119.00	21.00	110.57	107.28	140.67	135.75	360.32	7.967 (J)	[A2M2]
526	113.00	119.00	27.00	89.13	106.38	138.94	126.49	622.49	7.991 (J)	[PC]
527	128.00	119.00	21.00	110.57	107.28	140.67	135.75	360.32	7.992 (J)	[A2M2]
528	138.00	129.00	6.00	135.95	123.36	140.40	134.50	12.79	8.119 (J)	[A2M2]
529	133.00	149.00	15.00	140.76	136.16	146.18	141.84	10.36	8.282 (J)	[PC]
530	138.00	129.00	6.00	135.95	123.36	140.40	134.50	12.79	8.352 (J)	[A2M2]
531	138.00	124.00	27.00	116.60	107.54	152.19	146.97	825.26	8.393 (J)	[PC]
532	138.00	124.00	27.00	116.60	107.54	152.19	146.97	825.26	8.439 (J)	[PC]
533	118.00	119.00	18.00	104.56	107.03	135.47	123.34	154.29	8.500 (J)	[PC]
534	133.00	139.00	9.00	140.21	133.62	141.95	139.97	3.84	8.670 (J)	[PC]
535	118.00	119.00	30.00	90.75	106.45	141.17	138.06	862.03	8.680 (J)	[A2M2]
536	118.00	119.00	30.00	90.75	106.45	141.17	138.06	862.03	8.698 (J)	[A2M2]
537	118.00	119.00	18.00	104.56	107.03	135.47	123.34	154.29	8.707 (J)	[PC]
538	118.00	119.00	27.00	94.02	106.58	140.33	134.17	659.12	8.725 (J)	[PC]
539	113.00	114.00	27.00	87.12	106.29	138.29	123.45	863.76	8.751 (J)	[A2M2]
540	118.00	119.00	27.00	94.02	106.58	140.33	134.17	659.12	8.760 (J)	[PC]
541	113.00	114.00	27.00	87.12	106.29	138.29	123.45	863.76	8.762 (J)	[A2M2]
542	113.00	119.00	24.00	92.50	106.52	136.60	123.39	414.25	8.784 (J)	[PC]
543	138.00	124.00	18.00	129.59	108.09	144.12	140.93	261.43	8.789 (J)	[A2M2]

544	118.00	114.00	21.00	98.29	106.76	136.78	123.40	478.19	8.801 (J)	[A2M2]
545	113.00	119.00	30.00	85.85	106.24	139.92	132.24	839.28	8.816 (J)	[PC]
546	113.00	119.00	30.00	85.85	106.24	139.92	132.24	839.28	8.842 (J)	[PC]
547	118.00	114.00	21.00	98.29	106.76	136.78	123.40	478.19	8.846 (J)	[A2M2]
548	123.00	114.00	18.00	106.37	107.11	138.32	123.45	363.54	8.874 (J)	[PC]
549	138.00	124.00	18.00	129.59	108.09	144.12	140.93	261.43	8.886 (J)	[A2M2]
550	123.00	119.00	30.00	95.66	106.65	143.68	140.73	926.64	8.894 (J)	[A2M2]
551	113.00	119.00	24.00	92.50	106.52	136.60	123.39	414.25	8.902 (J)	[PC]
552	133.00	119.00	15.00	123.01	107.81	139.93	132.30	163.12	8.908 (J)	[PC]
553	123.00	119.00	24.00	102.25	106.93	140.58	135.34	498.85	8.920 (J)	[PC]
554	128.00	119.00	30.00	100.57	106.86	146.98	142.23	1023.95	8.923 (J)	[A2M2]
555	123.00	119.00	30.00	95.66	106.65	143.68	140.73	926.64	8.936 (J)	[A2M2]
556	123.00	114.00	18.00	106.37	107.11	138.32	123.45	363.54	8.951 (J)	[PC]
557	123.00	119.00	24.00	102.25	106.93	140.58	135.34	498.85	8.958 (J)	[PC]
558	133.00	119.00	15.00	123.01	107.81	139.93	132.30	163.12	8.968 (J)	[PC]
559	128.00	119.00	30.00	100.57	106.86	146.98	142.23	1023.95	8.985 (J)	[A2M2]
560	108.00	119.00	30.00	80.95	106.04	137.67	123.43	784.14	9.045 (J)	[PC]
561	108.00	119.00	30.00	80.95	106.04	137.67	123.43	784.14	9.104 (J)	[PC]
562	118.00	114.00	24.00	95.16	106.63	138.85	125.88	676.45	9.170 (J)	[A2M2]
563	133.00	139.00	9.00	140.21	133.62	141.95	139.97	3.84	9.176 (J)	[PC]
564	118.00	114.00	24.00	95.16	106.63	138.85	125.88	676.45	9.180 (J)	[A2M2]
565	128.00	114.00	9.00	121.53	107.75	134.03	120.68	41.47	9.242 (J)	[A2M2]
566	138.00	149.00	12.00	141.02	137.39	147.91	142.23	12.36	9.379 (J)	[PC]
567	128.00	114.00	9.00	121.53	107.75	134.03	120.68	41.47	9.482 (J)	[A2M2]
568	133.00	119.00	3.00	133.20	116.01	134.22	121.74	2.81	9.504 (J)	[PC]
569	123.00	119.00	27.00	98.92	106.79	141.33	138.83	667.68	9.605 (J)	[A2M2]
570	123.00	119.00	27.00	98.92	106.79	141.33	138.83	667.68	9.640 (J)	[A2M2]
571	128.00	114.00	15.00	114.51	107.45	138.66	124.55	251.71	9.711 (J)	[PC]
572	108.00	124.00	30.00	83.88	106.16	137.99	123.44	508.20	9.717 (J)	[PC]
573	128.00	114.00	15.00	114.51	107.45	138.66	124.55	251.71	9.790 (J)	[PC]
574	133.00	119.00	3.00	133.20	116.01	134.22	121.74	2.81	9.796 (J)	[PC]
575	138.00	149.00	12.00	141.02	137.39	147.91	142.23	12.36	9.799 (J)	[PC]
576	108.00	114.00	30.00	79.10	105.96	136.49	123.38	1052.14	9.839 (J)	[A2M2]
577	143.00	144.00	6.00	141.21	138.27	148.87	142.74	17.45	9.854 (J)	[A2M2]
578	108.00	114.00	30.00	79.10	105.96	136.49	123.38	1052.14	9.869 (J)	[A2M2]
579	108.00	124.00	30.00	83.88	106.16	137.99	123.44	508.20	9.877 (J)	[PC]
580	138.00	129.00	12.00	133.53	117.86	142.39	140.17	92.84	9.882 (J)	[PC]
581	138.00	129.00	12.00	133.53	117.86	142.39	140.17	92.84	9.892 (J)	[PC]
582	128.00	114.00	12.00	117.85	107.59	135.53	123.34	117.93	9.938 (J)	[A2M2]
583	128.00	119.00	21.00	110.57	107.28	140.67	135.75	360.32	9.959 (J)	[PC]
584	128.00	119.00	21.00	110.57	107.28	140.67	135.75	360.32	9.990 (J)	[PC]
585	128.00	114.00	12.00	117.85	107.59	135.53	123.34	117.93	10.054 (J)	[A2M2]
586	138.00	129.00	6.00	135.95	123.36	140.40	134.50	12.79	10.149 (J)	[PC]
587	143.00	144.00	6.00	141.21	138.27	148.87	142.74	17.45	10.267 (J)	[A2M2]
588	128.00	119.00	27.00	103.81	107.00	143.89	140.83	731.94	10.410 (J)	[A2M2]
589	138.00	129.00	6.00	135.95	123.36	140.40	134.50	12.79	10.440 (J)	[PC]
590	128.00	119.00	27.00	103.81	107.00	143.89	140.83	731.94	10.495 (J)	[A2M2]
591	123.00	114.00	21.00	103.21	106.97	139.09	127.50	505.93	10.570 (J)	[A2M2]
592	123.00	114.00	21.00	103.21	106.97	139.09	127.50	505.93	10.581 (J)	[A2M2]
593	148.00	144.00	3.00	146.01	141.76	150.77	145.15	7.09	10.683 (J)	[A2M2]
594	123.00	114.00	12.00	112.99	107.39	133.78	119.27	95.11	10.722 (J)	[A2M2]

595	113.00	114.00	30.00	84.04	106.17	139.24	128.54	1094.10	10.797 (J)	[A2M2]
596	118.00	119.00	30.00	90.75	106.45	141.17	138.06	862.03	10.850 (J)	[PC]
597	113.00	114.00	30.00	84.04	106.17	139.24	128.54	1094.10	10.863 (J)	[A2M2]
598	118.00	119.00	30.00	90.75	106.45	141.17	138.06	862.03	10.873 (J)	[PC]
599	113.00	114.00	27.00	87.12	106.29	138.29	123.45	863.76	10.939 (J)	[PC]
600	123.00	114.00	12.00	112.99	107.39	133.78	119.27	95.11	10.940 (J)	[A2M2]
601	113.00	114.00	27.00	87.12	106.29	138.29	123.45	863.76	10.953 (J)	[PC]
602	138.00	124.00	18.00	129.59	108.09	144.12	140.93	261.43	10.987 (J)	[PC]
603	118.00	114.00	21.00	98.29	106.76	136.78	123.40	478.19	11.002 (J)	[PC]
604	108.00	119.00	27.00	84.24	106.17	134.65	123.31	543.69	11.046 (J)	[A2M2]
605	118.00	114.00	21.00	98.29	106.76	136.78	123.40	478.19	11.057 (J)	[PC]
606	108.00	119.00	27.00	84.24	106.17	134.65	123.31	543.69	11.107 (J)	[A2M2]
607	138.00	124.00	18.00	129.59	108.09	144.12	140.93	261.43	11.108 (J)	[PC]
608	123.00	119.00	30.00	95.66	106.65	143.68	140.73	926.64	11.117 (J)	[PC]
609	148.00	144.00	3.00	146.01	141.76	150.77	145.15	7.09	11.130 (J)	[A2M2]
610	128.00	119.00	30.00	100.57	106.86	146.98	142.23	1023.95	11.154 (J)	[PC]
611	123.00	119.00	30.00	95.66	106.65	143.68	140.73	926.64	11.169 (J)	[PC]
612	128.00	119.00	30.00	100.57	106.86	146.98	142.23	1023.95	11.231 (J)	[PC]
613	133.00	119.00	30.00	105.47	107.07	149.77	143.88	1096.66	11.373 (J)	[A2M2]
614	118.00	114.00	24.00	95.16	106.63	138.85	125.88	676.45	11.462 (J)	[PC]
615	118.00	114.00	24.00	95.16	106.63	138.85	125.88	676.45	11.475 (J)	[PC]
616	133.00	119.00	30.00	105.47	107.07	149.77	143.88	1096.66	11.545 (J)	[A2M2]
617	128.00	114.00	9.00	121.53	107.75	134.03	120.68	41.47	11.552 (J)	[PC]
618	138.00	129.00	9.00	134.07	120.90	141.04	137.47	41.05	11.575 (J)	[A2M2]
619	123.00	114.00	15.00	109.61	107.24	134.76	123.31	192.70	11.580 (J)	[A2M2]
620	138.00	129.00	9.00	134.07	120.90	141.04	137.47	41.05	11.650 (J)	[A2M2]
621	123.00	114.00	15.00	109.61	107.24	134.76	123.31	192.70	11.668 (J)	[A2M2]
622	133.00	119.00	18.00	119.04	107.64	140.58	135.33	245.28	11.698 (J)	[A2M2]
623	133.00	119.00	18.00	119.04	107.64	140.58	135.33	245.28	11.762 (J)	[A2M2]
624	128.00	114.00	9.00	121.53	107.75	134.03	120.68	41.47	11.853 (J)	[PC]
625	113.00	114.00	24.00	90.23	106.42	135.11	123.33	616.96	11.891 (J)	[A2M2]
626	113.00	114.00	24.00	90.23	106.42	135.11	123.33	616.96	11.904 (J)	[A2M2]
627	123.00	119.00	27.00	98.92	106.79	141.33	138.83	667.68	12.006 (J)	[PC]
628	128.00	119.00	24.00	107.14	107.14	141.35	138.94	495.57	12.039 (J)	[A2M2]
629	123.00	119.00	27.00	98.92	106.79	141.33	138.83	667.68	12.050 (J)	[PC]
630	128.00	119.00	24.00	107.14	107.14	141.35	138.94	495.57	12.143 (J)	[A2M2]
631	108.00	114.00	30.00	79.10	105.96	136.49	123.38	1052.14	12.299 (J)	[PC]
632	143.00	144.00	6.00	141.21	138.27	148.87	142.74	17.45	12.317 (J)	[PC]
633	108.00	114.00	30.00	79.10	105.96	136.49	123.38	1052.14	12.336 (J)	[PC]
634	118.00	114.00	18.00	101.46	106.90	134.23	121.79	298.17	12.392 (J)	[A2M2]
635	128.00	114.00	12.00	117.85	107.59	135.53	123.34	117.93	12.422 (J)	[PC]
636	118.00	114.00	18.00	101.46	106.90	134.23	121.79	298.17	12.451 (J)	[A2M2]
637	128.00	114.00	12.00	117.85	107.59	135.53	123.34	117.93	12.567 (J)	[PC]
638	133.00	119.00	27.00	108.71	107.20	146.83	142.19	811.30	12.738 (J)	[A2M2]
639	143.00	144.00	6.00	141.21	138.27	148.87	142.74	17.45	12.834 (J)	[PC]
640	133.00	119.00	27.00	108.71	107.20	146.83	142.19	811.30	12.954 (J)	[A2M2]
641	128.00	119.00	27.00	103.81	107.00	143.89	140.83	731.94	13.012 (J)	[PC]
642	98.00	114.00	30.00	69.92	103.43	127.39	107.99	974.58	13.044 (J)	[A2M2]
643	128.00	119.00	27.00	103.81	107.00	143.89	140.83	731.94	13.119 (J)	[PC]
644	118.00	114.00	27.00	92.06	106.50	139.51	130.32	867.31	13.140 (J)	[A2M2]
645	98.00	114.00	30.00	69.92	103.43	127.39	107.99	974.58	13.157 (J)	[A2M2]

646	123.00	114.00	21.00	103.21	106.97	139.09	127.50	505.93	13.213 (J)	[PC]
647	123.00	114.00	21.00	103.21	106.97	139.09	127.50	505.93	13.226 (J)	[PC]
648	108.00	114.00	27.00	82.19	106.09	134.08	120.98	791.83	13.243 (J)	[A2M2]
649	118.00	114.00	27.00	92.06	106.50	139.51	130.32	867.31	13.265 (J)	[A2M2]
650	108.00	114.00	27.00	82.19	106.09	134.08	120.98	791.83	13.310 (J)	[A2M2]
651	148.00	144.00	3.00	146.01	141.76	150.77	145.15	7.09	13.354 (J)	[PC]
652	98.00	119.00	30.00	71.70	104.57	125.88	107.93	696.69	13.356 (J)	[A2M2]
653	123.00	114.00	12.00	112.99	107.39	133.78	119.27	95.11	13.403 (J)	[PC]
654	98.00	119.00	30.00	71.70	104.57	125.88	107.93	696.69	13.465 (J)	[A2M2]
655	113.00	114.00	30.00	84.04	106.17	139.24	128.54	1094.10	13.497 (J)	[PC]
656	113.00	114.00	30.00	84.04	106.17	139.24	128.54	1094.10	13.579 (J)	[PC]
657	123.00	114.00	12.00	112.99	107.39	133.78	119.27	95.11	13.675 (J)	[PC]
658	108.00	119.00	27.00	84.24	106.17	134.65	123.31	543.69	13.808 (J)	[PC]
659	108.00	119.00	27.00	84.24	106.17	134.65	123.31	543.69	13.883 (J)	[PC]
660	148.00	144.00	3.00	146.01	141.76	150.77	145.15	7.09	13.913 (J)	[PC]
661	133.00	119.00	30.00	105.47	107.07	149.77	143.88	1096.66	14.216 (J)	[PC]
662	98.00	114.00	27.00	72.52	105.07	124.29	107.86	755.11	14.407 (J)	[A2M2]
663	133.00	119.00	30.00	105.47	107.07	149.77	143.88	1096.66	14.431 (J)	[PC]
664	98.00	124.00	30.00	74.27	105.64	123.26	107.82	438.42	14.456 (J)	[A2M2]
665	138.00	129.00	9.00	134.07	120.90	141.04	137.47	41.05	14.469 (J)	[PC]
666	123.00	114.00	15.00	109.61	107.24	134.76	123.31	192.70	14.475 (J)	[PC]
667	98.00	114.00	27.00	72.52	105.07	124.29	107.86	755.11	14.535 (J)	[A2M2]
668	98.00	124.00	30.00	74.27	105.64	123.26	107.82	438.42	14.547 (J)	[A2M2]
669	138.00	129.00	9.00	134.07	120.90	141.04	137.47	41.05	14.562 (J)	[PC]
670	98.00	119.00	27.00	74.52	105.68	122.56	107.79	505.77	14.576 (J)	[A2M2]
671	123.00	114.00	15.00	109.61	107.24	134.76	123.31	192.70	14.585 (J)	[PC]
672	113.00	114.00	21.00	93.36	106.56	133.58	118.16	426.63	14.599 (J)	[A2M2]
673	133.00	119.00	18.00	119.04	107.64	140.58	135.33	245.28	14.622 (J)	[PC]
674	113.00	114.00	21.00	93.36	106.56	133.58	118.16	426.63	14.626 (J)	[A2M2]
675	128.00	114.00	18.00	111.29	107.31	139.18	128.11	357.50	14.681 (J)	[A2M2]
676	98.00	119.00	27.00	74.52	105.68	122.56	107.79	505.77	14.683 (J)	[A2M2]
677	133.00	119.00	18.00	119.04	107.64	140.58	135.33	245.28	14.703 (J)	[PC]
678	128.00	114.00	18.00	111.29	107.31	139.18	128.11	357.50	14.808 (J)	[A2M2]
679	113.00	114.00	24.00	90.23	106.42	135.11	123.33	616.96	14.864 (J)	[PC]
680	113.00	114.00	24.00	90.23	106.42	135.11	123.33	616.96	14.881 (J)	[PC]
681	128.00	119.00	24.00	107.14	107.14	141.35	138.94	495.57	15.048 (J)	[PC]
682	128.00	119.00	24.00	107.14	107.14	141.35	138.94	495.57	15.179 (J)	[PC]
683	103.00	119.00	30.00	76.04	105.83	130.97	108.14	709.06	15.185 (J)	[A2M2]
684	103.00	114.00	30.00	74.19	105.63	132.99	114.84	993.41	15.236 (J)	[A2M2]
685	103.00	114.00	30.00	74.19	105.63	132.99	114.84	993.41	15.333 (J)	[A2M2]
686	103.00	119.00	30.00	76.04	105.83	130.97	108.14	709.06	15.354 (J)	[A2M2]
687	118.00	114.00	18.00	101.46	106.90	134.23	121.79	298.17	15.491 (J)	[PC]
688	98.00	114.00	24.00	75.44	105.81	121.17	107.73	559.46	15.516 (J)	[A2M2]
689	118.00	114.00	18.00	101.46	106.90	134.23	121.79	298.17	15.563 (J)	[PC]
690	98.00	114.00	24.00	75.44	105.81	121.17	107.73	559.46	15.640 (J)	[A2M2]
691	133.00	119.00	27.00	108.71	107.20	146.83	142.19	811.30	15.923 (J)	[PC]
692	103.00	124.00	30.00	79.03	105.96	128.40	108.04	448.93	16.162 (J)	[A2M2]
693	98.00	119.00	24.00	77.88	105.91	119.14	107.65	342.83	16.180 (J)	[A2M2]
694	133.00	119.00	27.00	108.71	107.20	146.83	142.19	811.30	16.193 (J)	[PC]
695	98.00	119.00	24.00	77.88	105.91	119.14	107.65	342.83	16.269 (J)	[A2M2]
696	103.00	124.00	30.00	79.03	105.96	128.40	108.04	448.93	16.303 (J)	[A2M2]

697	98.00	114.00	30.00	69.92	103.43	127.39	107.99	974.58	16.305 (J)	[PC]
698	118.00	114.00	27.00	92.06	106.50	139.51	130.32	867.31	16.425 (J)	[PC]
699	98.00	114.00	30.00	69.92	103.43	127.39	107.99	974.58	16.446 (J)	[PC]
700	103.00	114.00	27.00	77.25	105.88	129.34	108.08	765.71	16.461 (J)	[A2M2]
701	98.00	124.00	27.00	77.95	105.91	119.49	107.66	281.49	16.486 (J)	[A2M2]
702	103.00	119.00	27.00	79.35	105.97	127.66	108.00	516.16	16.491 (J)	[A2M2]
703	98.00	124.00	27.00	77.95	105.91	119.49	107.66	281.49	16.549 (J)	[A2M2]
704	108.00	114.00	27.00	82.19	106.09	134.08	120.98	791.83	16.554 (J)	[PC]
705	118.00	114.00	27.00	92.06	106.50	139.51	130.32	867.31	16.582 (J)	[PC]
706	108.00	114.00	27.00	82.19	106.09	134.08	120.98	791.83	16.638 (J)	[PC]
707	103.00	114.00	27.00	77.25	105.88	129.34	108.08	765.71	16.653 (J)	[A2M2]
708	103.00	119.00	27.00	79.35	105.97	127.66	108.00	516.16	16.655 (J)	[A2M2]
709	98.00	119.00	30.00	71.70	104.57	125.88	107.93	696.69	16.695 (J)	[PC]
710	98.00	119.00	30.00	71.70	104.57	125.88	107.93	696.69	16.832 (J)	[PC]
711	98.00	114.00	21.00	78.61	105.94	118.00	107.60	392.79	16.990 (J)	[A2M2]
712	98.00	114.00	21.00	78.61	105.94	118.00	107.60	392.79	17.102 (J)	[A2M2]
713	123.00	114.00	24.00	100.09	106.84	139.70	131.24	664.21	17.544 (J)	[A2M2]
714	98.00	129.00	30.00	78.80	105.95	119.07	107.64	214.28	17.816 (J)	[A2M2]
715	98.00	129.00	30.00	78.80	105.95	119.07	107.64	214.28	17.841 (J)	[A2M2]
716	123.00	114.00	24.00	100.09	106.84	139.70	131.24	664.21	17.865 (J)	[A2M2]
717	103.00	114.00	24.00	80.37	106.01	126.22	107.94	569.36	17.912 (J)	[A2M2]
718	98.00	114.00	27.00	72.52	105.07	124.29	107.86	755.11	18.009 (J)	[PC]
719	98.00	124.00	30.00	74.27	105.64	123.26	107.82	438.42	18.069 (J)	[PC]
720	103.00	114.00	24.00	80.37	106.01	126.22	107.94	569.36	18.104 (J)	[A2M2]
721	98.00	114.00	27.00	72.52	105.07	124.29	107.86	755.11	18.169 (J)	[PC]
722	98.00	124.00	30.00	74.27	105.64	123.26	107.82	438.42	18.183 (J)	[PC]
723	98.00	119.00	27.00	74.52	105.68	122.56	107.79	505.77	18.220 (J)	[PC]
724	113.00	114.00	21.00	93.36	106.56	133.58	118.16	426.63	18.249 (J)	[PC]
725	113.00	114.00	21.00	93.36	106.56	133.58	118.16	426.63	18.282 (J)	[PC]
726	128.00	114.00	18.00	111.29	107.31	139.18	128.11	357.50	18.351 (J)	[PC]
727	98.00	119.00	27.00	74.52	105.68	122.56	107.79	505.77	18.354 (J)	[PC]
728	103.00	119.00	24.00	82.75	106.11	124.26	107.86	351.60	18.366 (J)	[A2M2]
729	103.00	124.00	27.00	82.78	106.11	124.66	107.88	290.30	18.394 (J)	[A2M2]
730	143.00	149.00	9.00	142.11	140.04	151.53	146.12	7.43	18.458 (J)	[A2M2]
731	103.00	124.00	27.00	82.78	106.11	124.66	107.88	290.30	18.504 (J)	[A2M2]
732	128.00	114.00	18.00	111.29	107.31	139.18	128.11	357.50	18.510 (J)	[PC]
733	103.00	119.00	24.00	82.75	106.11	124.26	107.86	351.60	18.511 (J)	[A2M2]
734	98.00	119.00	21.00	81.46	106.06	115.57	107.49	208.84	18.918 (J)	[A2M2]
735	98.00	119.00	21.00	81.46	106.06	115.57	107.49	208.84	18.967 (J)	[A2M2]
736	103.00	119.00	30.00	76.04	105.83	130.97	108.14	709.06	18.981 (J)	[PC]
737	103.00	114.00	30.00	74.19	105.63	132.99	114.84	993.41	19.045 (J)	[PC]
738	118.00	114.00	30.00	88.99	106.37	140.31	134.06	1082.72	19.092 (J)	[A2M2]
739	103.00	114.00	30.00	74.19	105.63	132.99	114.84	993.41	19.167 (J)	[PC]
740	103.00	119.00	30.00	76.04	105.83	130.97	108.14	709.06	19.193 (J)	[PC]
741	98.00	114.00	18.00	81.84	106.07	114.77	107.46	254.43	19.367 (J)	[A2M2]
742	143.00	149.00	9.00	142.11	140.04	151.53	146.12	7.43	19.391 (J)	[A2M2]
743	98.00	114.00	24.00	75.44	105.81	121.17	107.73	559.46	19.395 (J)	[PC]
744	98.00	114.00	18.00	81.84	106.07	114.77	107.46	254.43	19.454 (J)	[A2M2]
745	103.00	129.00	30.00	83.57	106.15	124.29	107.86	222.79	19.523 (J)	[A2M2]
746	98.00	114.00	24.00	75.44	105.81	121.17	107.73	559.46	19.550 (J)	[PC]
747	118.00	114.00	30.00	88.99	106.37	140.31	134.06	1082.72	19.566 (J)	[A2M2]

748	103.00	129.00	30.00	83.57	106.15	124.29	107.86	222.79	19.590 (J)	[A2M2]
749	108.00	124.00	27.00	87.60	106.31	129.82	108.10	299.07	19.591 (J)	[A2M2]
750	103.00	114.00	21.00	83.52	106.14	123.07	107.81	401.28	19.707 (J)	[A2M2]
751	133.00	119.00	24.00	112.02	107.34	143.42	140.62	537.18	19.713 (J)	[A2M2]
752	108.00	124.00	27.00	87.60	106.31	129.82	108.10	299.07	19.737 (J)	[A2M2]
753	108.00	119.00	24.00	87.63	106.32	129.37	108.08	360.21	19.763 (J)	[A2M2]
754	103.00	114.00	21.00	83.52	106.14	123.07	107.81	401.28	19.888 (J)	[A2M2]
755	108.00	114.00	24.00	85.30	106.22	131.28	108.16	579.12	19.902 (J)	[A2M2]
756	108.00	119.00	24.00	87.63	106.32	129.37	108.08	360.21	19.950 (J)	[A2M2]
757	108.00	114.00	24.00	85.30	106.22	131.28	108.16	579.12	20.152 (J)	[A2M2]
758	103.00	124.00	30.00	79.03	105.96	128.40	108.04	448.93	20.202 (J)	[PC]
759	98.00	119.00	24.00	77.88	105.91	119.14	107.65	342.83	20.225 (J)	[PC]
760	98.00	124.00	24.00	82.03	106.08	115.42	107.49	155.13	20.286 (J)	[A2M2]
761	98.00	124.00	24.00	82.03	106.08	115.42	107.49	155.13	20.291 (J)	[A2M2]
762	98.00	119.00	24.00	77.88	105.91	119.14	107.65	342.83	20.336 (J)	[PC]
763	133.00	119.00	24.00	112.02	107.34	143.42	140.62	537.18	20.336 (J)	[A2M2]
764	103.00	124.00	30.00	79.03	105.96	128.40	108.04	448.93	20.378 (J)	[PC]
765	108.00	129.00	30.00	88.33	106.34	129.51	108.08	231.41	20.555 (J)	[A2M2]
766	103.00	114.00	27.00	77.25	105.88	129.34	108.08	765.71	20.576 (J)	[PC]
767	98.00	124.00	27.00	77.95	105.91	119.49	107.66	281.49	20.608 (J)	[PC]
768	103.00	119.00	27.00	79.35	105.97	127.66	108.00	516.16	20.614 (J)	[PC]
769	108.00	129.00	30.00	88.33	106.34	129.51	108.08	231.41	20.650 (J)	[A2M2]
770	98.00	124.00	27.00	77.95	105.91	119.49	107.66	281.49	20.686 (J)	[PC]
771	103.00	114.00	27.00	77.25	105.88	129.34	108.08	765.71	20.816 (J)	[PC]
772	103.00	119.00	27.00	79.35	105.97	127.66	108.00	516.16	20.819 (J)	[PC]
773	103.00	119.00	21.00	86.31	106.26	120.71	107.71	216.09	21.000 (J)	[A2M2]
774	103.00	119.00	21.00	86.31	106.26	120.71	107.71	216.09	21.104 (J)	[A2M2]
775	98.00	114.00	21.00	78.61	105.94	118.00	107.60	392.79	21.237 (J)	[PC]
776	98.00	114.00	21.00	78.61	105.94	118.00	107.60	392.79	21.378 (J)	[PC]
777	108.00	114.00	21.00	88.44	106.35	128.13	108.02	409.63	21.388 (J)	[A2M2]
778	108.00	114.00	21.00	88.44	106.35	128.13	108.02	409.63	21.616 (J)	[A2M2]
779	113.00	119.00	21.00	96.00	106.67	130.98	108.14	230.67	21.655 (J)	[A2M2]
780	108.00	119.00	21.00	91.15	106.46	125.84	107.93	223.35	21.747 (J)	[A2M2]
781	113.00	119.00	21.00	96.00	106.67	130.98	108.14	230.67	21.782 (J)	[A2M2]
782	108.00	119.00	21.00	91.15	106.46	125.84	107.93	223.35	21.868 (J)	[A2M2]
783	123.00	114.00	24.00	100.09	106.84	139.70	131.24	664.21	21.930 (J)	[PC]
784	103.00	114.00	18.00	86.74	106.28	119.85	107.68	261.40	21.944 (J)	[A2M2]
785	103.00	114.00	18.00	86.74	106.28	119.85	107.68	261.40	22.097 (J)	[A2M2]
786	103.00	124.00	24.00	86.81	106.28	120.62	107.71	162.20	22.131 (J)	[A2M2]
787	103.00	124.00	24.00	86.81	106.28	120.62	107.71	162.20	22.174 (J)	[A2M2]
788	98.00	129.00	30.00	78.80	105.95	119.07	107.64	214.28	22.269 (J)	[PC]
789	98.00	129.00	30.00	78.80	105.95	119.07	107.64	214.28	22.301 (J)	[PC]
790	123.00	114.00	24.00	100.09	106.84	139.70	131.24	664.21	22.332 (J)	[PC]
791	113.00	124.00	24.00	96.38	106.68	131.02	108.15	176.60	22.354 (J)	[A2M2]
792	103.00	114.00	24.00	80.37	106.01	126.22	107.94	569.36	22.390 (J)	[PC]
793	113.00	124.00	24.00	96.38	106.68	131.02	108.15	176.60	22.418 (J)	[A2M2]
794	108.00	124.00	24.00	91.60	106.48	125.82	107.93	169.36	22.587 (J)	[A2M2]
795	103.00	114.00	24.00	80.37	106.01	126.22	107.94	569.36	22.630 (J)	[PC]
796	108.00	124.00	24.00	91.60	106.48	125.82	107.93	169.36	22.643 (J)	[A2M2]
797	108.00	114.00	18.00	91.64	106.48	124.93	107.89	268.33	22.817 (J)	[A2M2]
798	113.00	114.00	18.00	96.55	106.69	130.01	108.10	275.33	22.853 (J)	[A2M2]

799	98.00	114.00	15.00	85.18	106.21	111.43	107.32	144.45	22.886 (J)	[A2M2]
800	98.00	114.00	15.00	85.18	106.21	111.43	107.32	144.45	22.915 (J)	[A2M2]
801	103.00	119.00	24.00	82.75	106.11	124.26	107.86	351.60	22.958 (J)	[PC]
802	108.00	114.00	18.00	91.64	106.48	124.93	107.89	268.33	22.987 (J)	[A2M2]
803	103.00	124.00	27.00	82.78	106.11	124.66	107.88	290.30	22.992 (J)	[PC]
804	113.00	114.00	18.00	96.55	106.69	130.01	108.10	275.33	23.029 (J)	[A2M2]
805	143.00	149.00	9.00	142.11	140.04	151.53	146.12	7.43	23.072 (J)	[PC]
806	103.00	124.00	27.00	82.78	106.11	124.66	107.88	290.30	23.131 (J)	[PC]
807	103.00	119.00	24.00	82.75	106.11	124.26	107.86	351.60	23.139 (J)	[PC]
808	133.00	119.00	21.00	115.44	107.49	141.22	138.32	347.70	23.141 (J)	[A2M2]
809	118.00	114.00	15.00	104.71	107.04	132.98	114.79	168.24	23.450 (J)	[A2M2]
810	98.00	119.00	21.00	81.46	106.06	115.57	107.49	208.84	23.647 (J)	[PC]
811	118.00	114.00	15.00	104.71	107.04	132.98	114.79	168.24	23.698 (J)	[A2M2]
812	98.00	119.00	21.00	81.46	106.06	115.57	107.49	208.84	23.708 (J)	[PC]
813	98.00	119.00	18.00	85.33	106.22	111.71	107.33	104.90	23.849 (J)	[A2M2]
814	118.00	114.00	30.00	88.99	106.37	140.31	134.06	1082.72	23.865 (J)	[PC]
815	98.00	119.00	18.00	85.33	106.22	111.71	107.33	104.90	23.893 (J)	[A2M2]
816	133.00	119.00	21.00	115.44	107.49	141.22	138.32	347.70	23.965 (J)	[A2M2]
817	98.00	129.00	27.00	83.62	106.15	114.25	107.44	99.13	24.027 (J)	[A2M2]
818	98.00	129.00	27.00	83.62	106.15	114.25	107.44	99.13	24.127 (J)	[A2M2]
819	98.00	114.00	18.00	81.84	106.07	114.77	107.46	254.43	24.209 (J)	[PC]
820	143.00	149.00	9.00	142.11	140.04	151.53	146.12	7.43	24.239 (J)	[PC]
821	98.00	114.00	18.00	81.84	106.07	114.77	107.46	254.43	24.317 (J)	[PC]
822	103.00	129.00	30.00	83.57	106.15	124.29	107.86	222.79	24.404 (J)	[PC]
823	118.00	114.00	30.00	88.99	106.37	140.31	134.06	1082.72	24.458 (J)	[PC]
824	103.00	129.00	30.00	83.57	106.15	124.29	107.86	222.79	24.488 (J)	[PC]
825	108.00	124.00	27.00	87.60	106.31	129.82	108.10	299.07	24.489 (J)	[PC]
826	103.00	114.00	21.00	83.52	106.14	123.07	107.81	401.28	24.634 (J)	[PC]
827	133.00	119.00	24.00	112.02	107.34	143.42	140.62	537.18	24.642 (J)	[PC]
828	108.00	124.00	27.00	87.60	106.31	129.82	108.10	299.07	24.671 (J)	[PC]
829	108.00	119.00	24.00	87.63	106.32	129.37	108.08	360.21	24.704 (J)	[PC]
830	103.00	114.00	21.00	83.52	106.14	123.07	107.81	401.28	24.860 (J)	[PC]
831	108.00	114.00	24.00	85.30	106.22	131.28	108.16	579.12	24.877 (J)	[PC]
832	108.00	119.00	24.00	87.63	106.32	129.37	108.08	360.21	24.937 (J)	[PC]
833	113.00	114.00	15.00	99.82	106.83	126.73	107.97	161.18	24.993 (J)	[A2M2]
834	113.00	119.00	18.00	99.74	106.83	127.24	107.99	121.90	25.017 (J)	[A2M2]
835	113.00	119.00	18.00	99.74	106.83	127.24	107.99	121.90	25.031 (J)	[A2M2]
836	108.00	114.00	15.00	94.94	106.62	121.64	107.75	155.56	25.046 (J)	[A2M2]
837	113.00	114.00	15.00	99.82	106.83	126.73	107.97	161.18	25.082 (J)	[A2M2]
838	113.00	129.00	27.00	97.72	106.74	130.10	108.11	119.03	25.093 (J)	[A2M2]
839	103.00	114.00	15.00	90.06	106.42	116.54	107.54	149.97	25.116 (J)	[A2M2]
840	113.00	129.00	27.00	97.72	106.74	130.10	108.11	119.03	25.127 (J)	[A2M2]
841	108.00	114.00	15.00	94.94	106.62	121.64	107.75	155.56	25.128 (J)	[A2M2]
842	108.00	114.00	24.00	85.30	106.22	131.28	108.16	579.12	25.190 (J)	[PC]
843	103.00	114.00	15.00	90.06	106.42	116.54	107.54	149.97	25.191 (J)	[A2M2]
844	108.00	119.00	18.00	94.93	106.62	122.07	107.77	116.16	25.318 (J)	[A2M2]
845	108.00	119.00	18.00	94.93	106.62	122.07	107.77	116.16	25.320 (J)	[A2M2]
846	98.00	124.00	24.00	82.03	106.08	115.42	107.49	155.13	25.357 (J)	[PC]
847	98.00	124.00	24.00	82.03	106.08	115.42	107.49	155.13	25.364 (J)	[PC]
848	133.00	119.00	24.00	112.02	107.34	143.42	140.62	537.18	25.421 (J)	[PC]
849	108.00	129.00	27.00	93.01	106.54	124.83	107.89	112.27	25.588 (J)	[A2M2]

850	108.00	129.00	27.00	93.01	106.54	124.83	107.89	112.27	25.637 (J)	[A2M2]
851	103.00	119.00	18.00	90.13	106.42	116.89	107.55	110.49	25.639 (J)	[A2M2]
852	103.00	119.00	18.00	90.13	106.42	116.89	107.55	110.49	25.648 (J)	[A2M2]
853	108.00	129.00	30.00	88.33	106.34	129.51	108.08	231.41	25.694 (J)	[PC]
854	103.00	129.00	27.00	88.31	106.34	119.54	107.66	105.64	25.777 (J)	[A2M2]
855	108.00	129.00	30.00	88.33	106.34	129.51	108.08	231.41	25.812 (J)	[PC]
856	103.00	129.00	27.00	88.31	106.34	119.54	107.66	105.64	25.838 (J)	[A2M2]
857	103.00	119.00	21.00	86.31	106.26	120.71	107.71	216.09	26.250 (J)	[PC]
858	103.00	119.00	21.00	86.31	106.26	120.71	107.71	216.09	26.380 (J)	[PC]
859	108.00	114.00	21.00	88.44	106.35	128.13	108.02	409.63	26.735 (J)	[PC]
860	108.00	114.00	21.00	88.44	106.35	128.13	108.02	409.63	27.020 (J)	[PC]
861	113.00	119.00	21.00	96.00	106.67	130.98	108.14	230.67	27.069 (J)	[PC]
862	108.00	119.00	21.00	91.15	106.46	125.84	107.93	223.35	27.184 (J)	[PC]
863	113.00	119.00	21.00	96.00	106.67	130.98	108.14	230.67	27.227 (J)	[PC]
864	108.00	119.00	21.00	91.15	106.46	125.84	107.93	223.35	27.334 (J)	[PC]
865	103.00	114.00	18.00	86.74	106.28	119.85	107.68	261.40	27.430 (J)	[PC]
866	103.00	114.00	18.00	86.74	106.28	119.85	107.68	261.40	27.621 (J)	[PC]
867	103.00	124.00	24.00	86.81	106.28	120.62	107.71	162.20	27.664 (J)	[PC]
868	103.00	124.00	24.00	86.81	106.28	120.62	107.71	162.20	27.718 (J)	[PC]
869	138.00	124.00	15.00	132.16	110.18	141.29	138.64	136.42	27.815 (J)	[A2M2]
870	113.00	124.00	24.00	96.38	106.68	131.02	108.15	176.60	27.943 (J)	[PC]
871	118.00	124.00	21.00	105.57	107.07	131.81	108.18	82.47	28.008 (J)	[A2M2]
872	113.00	124.00	24.00	96.38	106.68	131.02	108.15	176.60	28.023 (J)	[PC]
873	118.00	124.00	21.00	105.57	107.07	131.81	108.18	82.47	28.109 (J)	[A2M2]
874	108.00	124.00	24.00	91.60	106.48	125.82	107.93	169.36	28.234 (J)	[PC]
875	108.00	124.00	24.00	91.60	106.48	125.82	107.93	169.36	28.304 (J)	[PC]
876	108.00	114.00	18.00	91.64	106.48	124.93	107.89	268.33	28.521 (J)	[PC]
877	113.00	114.00	18.00	96.55	106.69	130.01	108.10	275.33	28.567 (J)	[PC]
878	98.00	114.00	15.00	85.18	106.21	111.43	107.32	144.45	28.607 (J)	[PC]
879	98.00	114.00	15.00	85.18	106.21	111.43	107.32	144.45	28.643 (J)	[PC]
880	113.00	124.00	21.00	100.85	106.87	126.55	107.96	77.00	28.693 (J)	[A2M2]
881	108.00	114.00	18.00	91.64	106.48	124.93	107.89	268.33	28.734 (J)	[PC]
882	113.00	114.00	18.00	96.55	106.69	130.01	108.10	275.33	28.786 (J)	[PC]
883	113.00	124.00	21.00	100.85	106.87	126.55	107.96	77.00	28.814 (J)	[A2M2]
884	133.00	119.00	21.00	115.44	107.49	141.22	138.32	347.70	28.927 (J)	[PC]
885	118.00	114.00	12.00	108.13	107.18	128.41	108.04	80.00	29.282 (J)	[A2M2]
886	118.00	114.00	15.00	104.71	107.04	132.98	114.79	168.24	29.313 (J)	[PC]
887	118.00	114.00	12.00	108.13	107.18	128.41	108.04	80.00	29.336 (J)	[A2M2]
888	108.00	124.00	21.00	96.13	106.67	121.28	107.74	71.65	29.454 (J)	[A2M2]
889	98.00	124.00	21.00	86.73	106.28	110.72	107.29	61.30	29.538 (J)	[A2M2]
890	113.00	114.00	12.00	103.27	106.98	123.29	107.82	75.77	29.585 (J)	[A2M2]
891	108.00	124.00	21.00	96.13	106.67	121.28	107.74	71.65	29.597 (J)	[A2M2]
892	138.00	124.00	15.00	132.16	110.18	141.29	138.64	136.42	29.606 (J)	[A2M2]
893	118.00	114.00	15.00	104.71	107.04	132.98	114.79	168.24	29.623 (J)	[PC]
894	113.00	114.00	12.00	103.27	106.98	123.29	107.82	75.77	29.653 (J)	[A2M2]
895	98.00	124.00	21.00	86.73	106.28	110.72	107.29	61.30	29.730 (J)	[A2M2]
896	98.00	119.00	18.00	85.33	106.22	111.71	107.33	104.90	29.812 (J)	[PC]
897	98.00	119.00	18.00	85.33	106.22	111.71	107.33	104.90	29.867 (J)	[PC]
898	108.00	114.00	12.00	98.42	106.77	118.15	107.60	71.59	29.936 (J)	[A2M2]
899	133.00	119.00	21.00	115.44	107.49	141.22	138.32	347.70	29.956 (J)	[PC]
900	108.00	114.00	12.00	98.42	106.77	118.15	107.60	71.59	30.019 (J)	[A2M2]

901	98.00	129.00	27.00	83.62	106.15	114.25	107.44	99.13	30.034 (J)	[PC]
902	98.00	129.00	27.00	83.62	106.15	114.25	107.44	99.13	30.159 (J)	[PC]
903	103.00	124.00	21.00	91.43	106.48	116.01	107.51	66.41	30.304 (J)	[A2M2]
904	98.00	114.00	12.00	88.74	106.36	107.87	107.17	63.44	30.305 (J)	[A2M2]
905	103.00	114.00	12.00	93.58	106.57	113.01	107.39	67.48	30.339 (J)	[A2M2]
906	98.00	114.00	12.00	88.74	106.36	107.87	107.17	63.44	30.419 (J)	[A2M2]
907	103.00	114.00	12.00	93.58	106.57	113.01	107.39	67.48	30.438 (J)	[A2M2]
908	103.00	124.00	21.00	91.43	106.48	116.01	107.51	66.41	30.471 (J)	[A2M2]
909	113.00	114.00	15.00	99.82	106.83	126.73	107.97	161.18	31.241 (J)	[PC]
910	113.00	119.00	18.00	99.74	106.83	127.24	107.99	121.90	31.272 (J)	[PC]
911	113.00	119.00	18.00	99.74	106.83	127.24	107.99	121.90	31.289 (J)	[PC]
912	108.00	114.00	15.00	94.94	106.62	121.64	107.75	155.56	31.307 (J)	[PC]
913	113.00	114.00	15.00	99.82	106.83	126.73	107.97	161.18	31.353 (J)	[PC]
914	113.00	129.00	27.00	97.72	106.74	130.10	108.11	119.03	31.366 (J)	[PC]
915	103.00	114.00	15.00	90.06	106.42	116.54	107.54	149.97	31.395 (J)	[PC]
916	113.00	129.00	27.00	97.72	106.74	130.10	108.11	119.03	31.408 (J)	[PC]
917	108.00	114.00	15.00	94.94	106.62	121.64	107.75	155.56	31.410 (J)	[PC]
918	103.00	114.00	15.00	90.06	106.42	116.54	107.54	149.97	31.488 (J)	[PC]
919	108.00	119.00	18.00	94.93	106.62	122.07	107.77	116.16	31.647 (J)	[PC]
920	108.00	119.00	18.00	94.93	106.62	122.07	107.77	116.16	31.650 (J)	[PC]
921	108.00	129.00	27.00	93.01	106.54	124.83	107.89	112.27	31.986 (J)	[PC]
922	108.00	129.00	27.00	93.01	106.54	124.83	107.89	112.27	32.046 (J)	[PC]
923	103.00	119.00	18.00	90.13	106.42	116.89	107.55	110.49	32.048 (J)	[PC]
924	103.00	119.00	18.00	90.13	106.42	116.89	107.55	110.49	32.060 (J)	[PC]
925	103.00	129.00	27.00	88.31	106.34	119.54	107.66	105.64	32.222 (J)	[PC]
926	113.00	134.00	30.00	100.24	106.85	128.00	108.02	63.73	32.252 (J)	[A2M2]
927	103.00	129.00	27.00	88.31	106.34	119.54	107.66	105.64	32.297 (J)	[PC]
928	113.00	134.00	30.00	100.24	106.85	128.00	108.02	63.73	32.486 (J)	[A2M2]
929	118.00	119.00	15.00	108.73	107.21	128.23	108.03	48.05	33.421 (J)	[A2M2]
930	108.00	134.00	30.00	95.66	106.65	122.60	107.79	57.98	33.609 (J)	[A2M2]
931	118.00	119.00	15.00	108.73	107.21	128.23	108.03	48.05	33.652 (J)	[A2M2]
932	108.00	134.00	30.00	95.66	106.65	122.60	107.79	57.98	33.880 (J)	[A2M2]
933	123.00	114.00	27.00	97.00	106.71	140.43	134.62	845.72	33.900 (J)	[A2M2]
934	113.00	119.00	15.00	103.99	107.01	122.99	107.81	44.00	34.560 (J)	[A2M2]
935	138.00	124.00	15.00	132.16	110.18	141.29	138.64	136.42	34.769 (J)	[PC]
936	98.00	134.00	30.00	86.55	106.27	111.74	107.33	47.00	34.800 (J)	[A2M2]
937	113.00	119.00	15.00	103.99	107.01	122.99	107.81	44.00	34.823 (J)	[A2M2]
938	118.00	124.00	21.00	105.57	107.07	131.81	108.18	82.47	35.010 (J)	[PC]
939	118.00	124.00	21.00	105.57	107.07	131.81	108.18	82.47	35.136 (J)	[PC]
940	98.00	134.00	30.00	86.55	106.27	111.74	107.33	47.00	35.144 (J)	[A2M2]
941	103.00	134.00	30.00	91.10	106.46	117.18	107.56	52.39	35.164 (J)	[A2M2]
942	103.00	134.00	30.00	91.10	106.46	117.18	107.56	52.39	35.475 (J)	[A2M2]
943	108.00	119.00	15.00	99.26	106.81	117.73	107.59	40.06	35.865 (J)	[A2M2]
944	113.00	124.00	21.00	100.85	106.87	126.55	107.96	77.00	35.866 (J)	[PC]
945	123.00	114.00	27.00	97.00	106.71	140.43	134.62	845.72	35.887 (J)	[A2M2]
946	113.00	124.00	21.00	100.85	106.87	126.55	107.96	77.00	36.018 (J)	[PC]
947	108.00	119.00	15.00	99.26	106.81	117.73	107.59	40.06	36.165 (J)	[A2M2]
948	118.00	114.00	12.00	108.13	107.18	128.41	108.04	80.00	36.603 (J)	[PC]
949	118.00	114.00	12.00	108.13	107.18	128.41	108.04	80.00	36.670 (J)	[PC]
950	108.00	124.00	21.00	96.13	106.67	121.28	107.74	71.65	36.818 (J)	[PC]
951	98.00	124.00	21.00	86.73	106.28	110.72	107.29	61.30	36.922 (J)	[PC]

952	113.00	114.00	12.00	103.27	106.98	123.29	107.82	75.77	36.982 (J)	[PC]
953	108.00	124.00	21.00	96.13	106.67	121.28	107.74	71.65	36.997 (J)	[PC]
954	138.00	124.00	15.00	132.16	110.18	141.29	138.64	136.42	37.008 (J)	[PC]
955	113.00	114.00	12.00	103.27	106.98	123.29	107.82	75.77	37.066 (J)	[PC]
956	98.00	124.00	21.00	86.73	106.28	110.72	107.29	61.30	37.163 (J)	[PC]
957	103.00	119.00	15.00	94.55	106.61	112.46	107.36	36.23	37.371 (J)	[A2M2]
958	108.00	114.00	12.00	98.42	106.77	118.15	107.60	71.59	37.420 (J)	[PC]
959	108.00	114.00	12.00	98.42	106.77	118.15	107.60	71.59	37.524 (J)	[PC]
960	103.00	119.00	15.00	94.55	106.61	112.46	107.36	36.23	37.712 (J)	[A2M2]
961	103.00	124.00	21.00	91.43	106.48	116.01	107.51	66.41	37.880 (J)	[PC]
962	98.00	114.00	12.00	88.74	106.36	107.87	107.17	63.44	37.881 (J)	[PC]
963	103.00	114.00	12.00	93.58	106.57	113.01	107.39	67.48	37.924 (J)	[PC]
964	98.00	114.00	12.00	88.74	106.36	107.87	107.17	63.44	38.024 (J)	[PC]
965	103.00	114.00	12.00	93.58	106.57	113.01	107.39	67.48	38.048 (J)	[PC]
966	103.00	124.00	21.00	91.43	106.48	116.01	107.51	66.41	38.089 (J)	[PC]
967	128.00	114.00	21.00	108.14	107.18	139.74	131.41	483.12	38.328 (J)	[A2M2]
968	118.00	129.00	24.00	108.02	107.18	129.79	108.09	38.34	39.007 (J)	[A2M2]
969	98.00	119.00	15.00	89.85	106.41	107.18	107.14	32.52	39.125 (J)	[A2M2]
970	118.00	129.00	24.00	108.02	107.18	129.79	108.09	38.34	39.412 (J)	[A2M2]
971	98.00	119.00	15.00	89.85	106.41	107.18	107.14	32.52	39.513 (J)	[A2M2]
972	113.00	134.00	30.00	100.24	106.85	128.00	108.02	63.73	40.314 (J)	[PC]
973	113.00	134.00	30.00	100.24	106.85	128.00	108.02	63.73	40.608 (J)	[PC]
974	128.00	114.00	21.00	108.14	107.18	139.74	131.41	483.12	40.822 (J)	[A2M2]
975	113.00	129.00	24.00	103.45	106.98	124.37	107.87	33.84	41.376 (J)	[A2M2]
976	118.00	119.00	15.00	108.73	107.21	128.23	108.03	48.05	41.777 (J)	[PC]
977	113.00	129.00	24.00	103.45	106.98	124.37	107.87	33.84	41.842 (J)	[A2M2]
978	123.00	114.00	9.00	116.73	107.54	129.79	108.09	25.33	41.907 (J)	[A2M2]
979	108.00	134.00	30.00	95.66	106.65	122.60	107.79	57.98	42.012 (J)	[PC]
980	118.00	119.00	15.00	108.73	107.21	128.23	108.03	48.05	42.065 (J)	[PC]
981	123.00	114.00	9.00	116.73	107.54	129.79	108.09	25.33	42.328 (J)	[A2M2]
982	108.00	134.00	30.00	95.66	106.65	122.60	107.79	57.98	42.350 (J)	[PC]
983	123.00	114.00	27.00	97.00	106.71	140.43	134.62	845.72	42.375 (J)	[PC]
984	113.00	119.00	15.00	103.99	107.01	122.99	107.81	44.00	43.200 (J)	[PC]
985	98.00	134.00	30.00	86.55	106.27	111.74	107.33	47.00	43.500 (J)	[PC]
986	113.00	119.00	15.00	103.99	107.01	122.99	107.81	44.00	43.529 (J)	[PC]
987	118.00	114.00	9.00	111.95	107.34	124.59	107.88	22.63	43.750 (J)	[A2M2]
988	98.00	134.00	30.00	86.55	106.27	111.74	107.33	47.00	43.930 (J)	[PC]
989	103.00	134.00	30.00	91.10	106.46	117.18	107.56	52.39	43.955 (J)	[PC]
990	108.00	129.00	24.00	98.90	106.79	118.94	107.64	29.53	44.210 (J)	[A2M2]
991	118.00	114.00	9.00	111.95	107.34	124.59	107.88	22.63	44.225 (J)	[A2M2]
992	103.00	134.00	30.00	91.10	106.46	117.18	107.56	52.39	44.344 (J)	[PC]
993	108.00	129.00	24.00	98.90	106.79	118.94	107.64	29.53	44.749 (J)	[A2M2]
994	108.00	119.00	15.00	99.26	106.81	117.73	107.59	40.06	44.831 (J)	[PC]
995	123.00	114.00	27.00	97.00	106.71	140.43	134.62	845.72	44.859 (J)	[PC]
996	108.00	119.00	15.00	99.26	106.81	117.73	107.59	40.06	45.206 (J)	[PC]
997	113.00	114.00	9.00	107.17	107.14	119.38	107.66	20.01	45.968 (J)	[A2M2]
998	113.00	114.00	9.00	107.17	107.14	119.38	107.66	20.01	46.505 (J)	[A2M2]
999	103.00	119.00	15.00	94.55	106.61	112.46	107.36	36.23	46.714 (J)	[PC]
1000	103.00	119.00	15.00	94.55	106.61	112.46	107.36	36.23	47.141 (J)	[PC]
1001	103.00	129.00	24.00	94.38	106.60	113.47	107.41	25.41	47.657 (J)	[A2M2]
1002	128.00	114.00	21.00	108.14	107.18	139.74	131.41	483.12	47.910 (J)	[PC]

1003	103.00	129.00	24.00	94.38	106.60	113.47	107.41	25.41	48.285 (J) [A2M2]
1004	108.00	114.00	9.00	102.42	106.94	114.16	107.43	17.49	48.666 (J) [A2M2]
1005	118.00	129.00	24.00	108.02	107.18	129.79	108.09	38.34	48.759 (J) [PC]
1006	98.00	119.00	15.00	89.85	106.41	107.18	107.14	32.52	48.906 (J) [PC]
1007	118.00	129.00	24.00	108.02	107.18	129.79	108.09	38.34	49.265 (J) [PC]
1008	108.00	114.00	9.00	102.42	106.94	114.16	107.43	17.49	49.277 (J) [A2M2]
1009	98.00	119.00	15.00	89.85	106.41	107.18	107.14	32.52	49.391 (J) [PC]
1010	128.00	114.00	21.00	108.14	107.18	139.74	131.41	483.12	51.028 (J) [PC]
1011	123.00	124.00	18.00	115.80	107.50	131.57	108.17	19.33	51.571 (J) [A2M2]
1012	113.00	129.00	24.00	103.45	106.98	124.37	107.87	33.84	51.720 (J) [PC]
1013	98.00	129.00	24.00	89.89	106.41	107.98	107.17	21.50	51.937 (J) [A2M2]
1014	103.00	114.00	9.00	97.68	106.74	108.91	107.21	15.07	51.995 (J) [A2M2]
1015	123.00	124.00	18.00	115.80	107.50	131.57	108.17	19.33	52.291 (J) [A2M2]
1016	113.00	129.00	24.00	103.45	106.98	124.37	107.87	33.84	52.303 (J) [PC]
1017	123.00	114.00	9.00	116.73	107.54	129.79	108.09	25.33	52.383 (J) [PC]
1018	98.00	129.00	24.00	89.89	106.41	107.98	107.17	21.50	52.673 (J) [A2M2]
1019	103.00	114.00	9.00	97.68	106.74	108.91	107.21	15.07	52.696 (J) [A2M2]
1020	123.00	114.00	9.00	116.73	107.54	129.79	108.09	25.33	52.910 (J) [PC]
1021	118.00	114.00	9.00	111.95	107.34	124.59	107.88	22.63	54.688 (J) [PC]
1022	108.00	129.00	24.00	98.90	106.79	118.94	107.64	29.53	55.263 (J) [PC]
1023	118.00	114.00	9.00	111.95	107.34	124.59	107.88	22.63	55.281 (J) [PC]
1024	108.00	129.00	24.00	98.90	106.79	118.94	107.64	29.53	55.936 (J) [PC]
1025	98.00	114.00	9.00	92.97	106.54	103.65	106.99	12.77	56.181 (J) [A2M2]
1026	118.00	124.00	18.00	111.25	107.31	126.13	107.94	16.10	56.680 (J) [A2M2]
1027	98.00	114.00	9.00	92.97	106.54	103.65	106.99	12.77	56.992 (J) [A2M2]
1028	113.00	114.00	9.00	107.17	107.14	119.38	107.66	20.01	57.460 (J) [PC]
1029	118.00	124.00	18.00	111.25	107.31	126.13	107.94	16.10	57.531 (J) [A2M2]
1030	113.00	114.00	9.00	107.17	107.14	119.38	107.66	20.01	58.131 (J) [PC]
1031	103.00	129.00	24.00	94.38	106.60	113.47	107.41	25.41	59.572 (J) [PC]
1032	103.00	129.00	24.00	94.38	106.60	113.47	107.41	25.41	60.356 (J) [PC]
1033	108.00	114.00	9.00	102.42	106.94	114.16	107.43	17.49	60.832 (J) [PC]
1034	108.00	114.00	9.00	102.42	106.94	114.16	107.43	17.49	61.596 (J) [PC]
1035	113.00	124.00	18.00	106.75	107.12	120.66	107.71	13.07	63.349 (J) [A2M2]
1036	138.00	124.00	12.00	132.70	113.23	140.66	135.70	93.69	63.549 (J) [A2M2]
1037	113.00	124.00	18.00	106.75	107.12	120.66	107.71	13.07	64.369 (J) [A2M2]
1038	123.00	124.00	18.00	115.80	107.50	131.57	108.17	19.33	64.463 (J) [PC]
1039	98.00	129.00	24.00	89.89	106.41	107.98	107.17	21.50	64.921 (J) [PC]
1040	103.00	114.00	9.00	97.68	106.74	108.91	107.21	15.07	64.994 (J) [PC]
1041	123.00	124.00	18.00	115.80	107.50	131.57	108.17	19.33	65.364 (J) [PC]
1042	98.00	129.00	24.00	89.89	106.41	107.98	107.17	21.50	65.841 (J) [PC]
1043	103.00	114.00	9.00	97.68	106.74	108.91	107.21	15.07	65.870 (J) [PC]
1044	98.00	114.00	9.00	92.97	106.54	103.65	106.99	12.77	70.226 (J) [PC]
1045	118.00	124.00	18.00	111.25	107.31	126.13	107.94	16.10	70.850 (J) [PC]
1046	98.00	114.00	9.00	92.97	106.54	103.65	106.99	12.77	71.240 (J) [PC]
1047	118.00	124.00	18.00	111.25	107.31	126.13	107.94	16.10	71.913 (J) [PC]
1048	108.00	124.00	18.00	102.28	106.93	115.14	107.48	10.25	72.407 (J) [A2M2]
1049	108.00	124.00	18.00	102.28	106.93	115.14	107.48	10.25	73.656 (J) [A2M2]
1050	138.00	124.00	12.00	132.70	113.23	140.66	135.70	93.69	74.129 (J) [A2M2]
1051	113.00	124.00	18.00	106.75	107.12	120.66	107.71	13.07	79.186 (J) [PC]
1052	138.00	124.00	12.00	132.70	113.23	140.66	135.70	93.69	79.436 (J) [PC]
1053	113.00	124.00	18.00	106.75	107.12	120.66	107.71	13.07	80.461 (J) [PC]

1054	103.00	124.00	18.00	97.87	106.75	109.57	107.24	7.66	85.398 (J)	[A2M2]
1055	103.00	124.00	18.00	97.87	106.75	109.57	107.24	7.66	86.974 (J)	[A2M2]
1056	108.00	124.00	18.00	102.28	106.93	115.14	107.48	10.25	90.509 (J)	[PC]
1057	108.00	124.00	18.00	102.28	106.93	115.14	107.48	10.25	92.070 (J)	[PC]
1058	138.00	124.00	12.00	132.70	113.23	140.66	135.70	93.69	92.661 (J)	[PC]
1059	123.00	134.00	27.00	117.46	107.57	130.75	108.14	7.37	97.559 (J)	[A2M2]
1060	123.00	134.00	27.00	117.46	107.57	130.75	108.14	7.37	99.445 (J)	[A2M2]
1061	123.00	119.00	12.00	119.12	107.64	127.82	108.01	4.77	101.139 (J)	[A2M2]
1062	123.00	119.00	12.00	119.12	107.64	127.82	108.01	4.77	103.105 (J)	[A2M2]
1063	98.00	124.00	18.00	93.53	106.56	103.92	107.00	5.33	105.561 (J)	[A2M2]
1064	103.00	124.00	18.00	97.87	106.75	109.57	107.24	7.66	106.747 (J)	[PC]
1065	98.00	124.00	18.00	93.53	106.56	103.92	107.00	5.33	107.644 (J)	[A2M2]
1066	103.00	124.00	18.00	97.87	106.75	109.57	107.24	7.66	108.717 (J)	[PC]
1067	123.00	134.00	27.00	117.46	107.57	130.75	108.14	7.37	121.949 (J)	[PC]
1068	123.00	134.00	27.00	117.46	107.57	130.75	108.14	7.37	124.306 (J)	[PC]
1069	123.00	119.00	12.00	119.12	107.64	127.82	108.01	4.77	126.423 (J)	[PC]
1070	118.00	134.00	27.00	113.36	107.40	124.86	107.89	4.76	126.996 (J)	[A2M2]
1071	123.00	119.00	12.00	119.12	107.64	127.82	108.01	4.77	128.881 (J)	[PC]
1072	118.00	134.00	27.00	113.36	107.40	124.86	107.89	4.76	129.618 (J)	[A2M2]
1073	118.00	119.00	12.00	114.72	107.46	122.25	107.78	3.06	131.642 (J)	[A2M2]
1074	98.00	124.00	18.00	93.53	106.56	103.92	107.00	5.33	131.952 (J)	[PC]
1075	118.00	119.00	12.00	114.72	107.46	122.25	107.78	3.06	134.374 (J)	[A2M2]
1076	98.00	124.00	18.00	93.53	106.56	103.92	107.00	5.33	134.555 (J)	[PC]
1077	118.00	134.00	27.00	113.36	107.40	124.86	107.89	4.76	158.745 (J)	[PC]
1078	123.00	114.00	30.00	93.93	106.58	141.13	137.90	1046.27	160.050 (J)	[A2M2]
1079	118.00	134.00	27.00	113.36	107.40	124.86	107.89	4.76	162.023 (J)	[PC]
1080	118.00	119.00	12.00	114.72	107.46	122.25	107.78	3.06	164.552 (J)	[PC]
1081	118.00	119.00	12.00	114.72	107.46	122.25	107.78	3.06	167.967 (J)	[PC]
1082	123.00	114.00	30.00	93.93	106.58	141.13	137.90	1046.27	200.062 (J)	[PC]
1083	123.00	114.00	30.00	93.93	106.58	141.13	137.90	1046.27	240.468 (J)	[A2M2]
1084	123.00	114.00	30.00	93.93	106.58	141.13	137.90	1046.27	300.585 (J)	[PC]

Analisi della superficie critica

Simbologia adottata

Le ascisse X sono considerate positive verso destra
Le ordinate Y sono considerate positive verso l'alto
Le strisce sono numerate da valle verso monte

N°	numero d'ordine della striscia
X_s	ascissa sinistra della striscia espressa in m
Y_{ss}	ordinata superiore sinistra della striscia espressa in m
Y_{si}	ordinata inferiore sinistra della striscia espressa in m
X_g	ascissa del baricentro della striscia espressa in m
Y_g	ordinata del baricentro della striscia espressa in m
α	angolo fra la base della striscia e l'orizzontale espresso °(positivo antiorario)
ϕ	angolo d'attrito del terreno lungo la base della striscia
c	coesione del terreno lungo la base della striscia espressa in kPa
L	sviluppo della base della striscia espressa in m(L=b/cosα)
u	pressione neutra lungo la base della striscia espressa in kPa
W	peso della striscia espresso in kN
Q	carico applicato sulla striscia espresso in kN
N	sforzo normale alla base della striscia espresso in kN
T	sforzo tangenziale alla base della striscia espresso in kN
U	pressione neutra alla base della striscia espressa in kN
E_s, E_d	forze orizzontali sulla striscia a sinistra e a destra espresse in kN
X_s, X_d	forze verticali sulla striscia a sinistra e a destra espresse in kN
ID	Indice della superficie interessata dall'intervento

Analisi della superficie 1 - coefficienti parziali caso A2M2 e sisma verso il basso

Numero di strisce	34	
Coordinate del centro	X[m]= 123.00	Y[m]= 139.00
Raggio del cerchio	R[m]= 30.00	
Intersezione a valle con il profilo topografico	X_v[m]= 132.21	Y_v[m]= 110.45
Intersezione a monte con il profilo topografico	X_m[m]= 151.99	Y_m[m]= 146.72
Coefficiente di sicurezza	C_S= 1.409	

Geometria e caratteristiche strisce

N°	X_s	Y_{ss}	Y_{si}	X_d	Y_{ds}	Y_{di}	X_g	Y_g	L	α	ϕ	c
1	132.21	110.45	110.45	132.81	113.85	110.65	132.61	111.65	0.63	18.48	42.62	128
2	132.81	113.85	110.65	133.78	119.26	111.00	133.37	113.90	1.03	20.07	42.62	128
3	133.78	119.26	111.00	134.49	123.30	111.29	134.16	116.28	0.76	21.79	42.62	128
4	134.49	123.30	111.29	135.37	123.34	111.67	134.93	117.40	0.96	23.44	42.62	128
5	135.37	123.34	111.67	136.26	123.37	112.09	135.81	117.62	0.98	25.29	42.62	128
6	136.26	123.37	112.09	137.14	123.41	112.54	136.70	117.85	0.99	27.17	42.62	128
7	137.14	123.41	112.54	137.41	123.42	112.69	137.27	118.01	0.31	28.41	42.62	128
8	137.41	123.42	112.69	138.50	123.46	113.31	137.95	118.22	1.26	29.91	42.62	128
9	138.50	123.46	113.31	139.24	128.55	113.78	138.89	119.86	0.87	31.94	42.62	128
10	139.24	128.55	113.78	139.32	129.14	113.83	139.28	121.32	0.10	32.87	42.62	128
11	139.32	129.14	113.83	139.45	130.04	113.91	139.39	121.73	0.16	33.10	42.62	128
12	139.45	130.04	113.91	139.49	130.25	113.94	139.47	122.04	0.05	33.30	42.62	128

13	139.49	130.25	113.94	140.32	134.11	114.50	139.92	123.24	1.00	34.30	42.62	128
14	140.32	134.11	114.50	141.15	137.98	115.11	140.75	125.46	1.03	36.25	42.62	128
15	141.15	137.98	115.11	141.53	139.79	115.41	141.34	127.08	0.48	37.69	42.62	128
16	141.53	139.79	115.41	141.73	139.87	115.57	141.63	127.66	0.26	38.39	42.62	128
17	141.73	139.87	115.57	141.88	139.94	115.69	141.80	127.77	0.19	38.82	42.62	128
18	141.88	139.94	115.69	142.26	140.11	116.00	142.07	127.93	0.49	39.47	42.62	128
19	142.26	140.11	116.00	142.99	140.43	116.63	142.62	128.29	0.97	40.86	42.62	128
20	142.99	140.43	116.63	143.92	140.84	117.50	143.45	128.85	1.27	43.00	42.62	128
21	143.92	140.84	117.50	144.85	141.25	118.44	144.38	129.51	1.33	45.48	42.62	128
22	144.85	141.25	118.44	145.78	141.66	119.48	145.31	130.21	1.39	48.08	42.62	128
23	145.78	141.66	119.48	146.71	142.07	120.62	146.24	130.95	1.47	50.81	42.62	128
24	146.71	142.07	120.62	146.76	142.12	120.68	146.73	131.37	0.08	52.29	42.62	128
25	146.76	142.12	120.68	146.80	142.16	120.74	146.78	131.43	0.07	52.44	42.62	128
26	146.80	142.16	120.74	146.84	142.19	120.79	146.82	131.47	0.07	52.56	42.62	128
27	146.84	142.19	120.79	146.86	142.20	120.81	146.85	131.50	0.03	52.66	42.62	128
28	146.86	142.20	120.81	146.88	142.22	120.84	146.87	131.52	0.03	52.72	42.62	128
29	146.88	142.22	120.84	146.92	142.23	120.89	146.90	131.55	0.07	52.81	42.62	128
30	146.92	142.23	120.89	147.88	142.23	122.24	147.39	131.89	1.65	54.45	42.62	128
31	147.88	142.23	122.24	148.46	142.23	123.13	148.17	132.46	1.07	57.05	42.62	128
32	148.46	142.23	123.13	149.64	143.72	125.20	149.05	133.57	2.38	60.34	42.62	128
33	149.64	143.72	125.20	150.82	145.21	127.77	150.22	135.47	2.83	65.32	42.62	128
34	150.82	145.21	127.77	151.99	146.72	131.28	151.39	137.72	3.70	71.56	42.62	128

Forze applicate sulle strisce [JANBU]

N°	W	Q	N	T	U	E_s	E_d	X_s	X_d
1	24.96	0.00	6.48	61.70	0.00	0.00	54.98	0.00	0.00
2	144.47	0.00	100.18	159.27	0.00	54.98	161.62	0.00	0.00
3	187.08	0.00	142.47	162.54	0.00	161.62	248.56	0.00	0.00
4	271.91	0.00	208.25	223.51	0.00	248.56	354.66	0.00	0.00
5	263.56	0.00	197.31	217.65	0.00	354.66	451.52	0.00	0.00
6	254.40	0.00	185.83	211.60	0.00	451.52	539.81	0.00	0.00
7	75.82	0.00	54.44	63.45	0.00	539.81	565.21	0.00	0.00
8	295.84	0.00	207.67	249.90	0.00	565.21	660.74	0.00	0.00
9	239.73	0.00	171.60	191.32	0.00	660.74	718.08	0.00	0.00
10	31.29	0.00	23.04	23.71	0.00	718.08	723.64	0.00	0.00
11	53.13	0.00	39.36	39.81	0.00	723.64	732.33	0.00	0.00
12	16.87	0.00	12.54	12.54	0.00	732.33	734.93	0.00	0.00
13	387.60	0.00	291.11	281.45	0.00	734.93	780.37	0.00	0.00
14	458.33	0.00	349.32	321.69	0.00	780.37	806.08	0.00	0.00
15	233.41	0.00	179.44	160.85	0.00	806.08	809.81	0.00	0.00
16	126.59	0.00	97.48	86.86	0.00	809.81	809.85	0.00	0.00
17	94.69	0.00	72.80	65.05	0.00	809.85	809.28	0.00	0.00
18	238.92	0.00	183.27	164.44	0.00	809.28	805.54	0.00	0.00
19	454.67	0.00	347.05	314.40	0.00	805.54	789.29	0.00	0.00
20	569.95	0.00	431.71	397.54	0.00	789.29	751.80	0.00	0.00
21	557.94	0.00	418.69	394.01	0.00	751.80	696.43	0.00	0.00
22	543.90	0.00	403.71	390.17	0.00	696.43	624.49	0.00	0.00
23	527.50	0.00	386.15	385.97	0.00	624.49	537.78	0.00	0.00

24	27.88	0.00	20.23	20.64	0.00	537.78	532.75	0.00	0.00
25	22.29	0.00	16.16	16.52	0.00	532.75	528.69	0.00	0.00
26	22.27	0.00	16.14	16.52	0.00	528.69	524.60	0.00	0.00
27	11.12	0.00	8.06	8.26	0.00	524.60	522.54	0.00	0.00
28	11.12	0.00	8.05	8.26	0.00	522.54	520.48	0.00	0.00
29	22.21	0.00	16.07	16.51	0.00	520.48	516.33	0.00	0.00
30	515.78	0.00	367.53	390.11	0.00	516.33	413.49	0.00	0.00
31	294.74	0.00	203.46	229.78	0.00	413.49	350.27	0.00	0.00
32	576.99	0.00	381.95	466.18	0.00	350.27	214.77	0.00	0.00
33	551.51	0.00	330.87	472.92	0.00	214.77	78.84	0.00	0.00
34	499.91	0.00	209.51	472.74	0.00	78.84	0.01	0.00	0.00

Dichiarazioni secondo N.T.C. 2008 (punto 10.2)

Analisi e verifiche svolte con l'ausilio di codici di calcolo
Il sottoscritto Iacopo Parenti, in qualità di calcolatore delle opere in progetto, dichiara quanto segue.

Tipo di analisi svolta
L'analisi e le verifiche di stabilità sono condotte con l'ausilio di un codice di calcolo automatico.
I metodi di calcolo implementati sono i classici metodi delle strisce, basati sul concetto dell'equilibrio limite globale. La superficie di rottura è suddivisa in un determinato numero di strisce che consentono di calcolare le grandezze che entrano in gioco nelle equazioni risolutive.
Nel modulo terreni si adotta il criterio di rottura di Mohr-Coulomb. Nel modulo rocce si può adottare il criterio di rottura di Hoek-Brown o di Barton.
Il programma consente di inserire degli interventi di stabilizzazione, che possono intervenire secondo sue modalità diverse: variazione delle forze di interstriscia o resistenza a taglio equivalente.
L'analisi sotto le azioni sismiche è condotta con il metodo dell'analisi statica equivalente secondo le disposizioni del capitolo 7 del DM 14/01/2008.

Origine e caratteristiche dei codici di calcolo

Titolo	STAP - Stabilità Pendii Terreni e Rocce
Versione	11.0
Produttore	Aztec Informatica srl, Casole Bruzio (CS)
Utente	ING. PARENTI IACOPO
Licenza	AIU22951S

Affidabilità dei codici di calcolo
Un attento esame preliminare della documentazione a corredo del software ha consentito di valutarne l'affidabilità. La documentazione fornita dal produttore del software contiene un'esauriente descrizione delle basi teoriche, degli algoritmi impiegati e l'individuazione dei campi d'impiego. La società produttrice Aztec Informatica srl ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

Modalità di presentazione dei risultati
La relazione di calcolo strutturale presenta i dati di calcolo tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità. La relazione di calcolo illustra in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare.

Informazioni generali sull'elaborazione
Il software prevede una serie di controlli automatici che consentono l'individuazione di errori di modellazione, di non rispetto di limitazioni geometriche e di armatura e di presenza di elementi non verificati. Il codice di calcolo consente di visualizzare e controllare, sia in forma grafica che tabellare, i dati del modello strutturale, in modo da avere una visione consapevole del comportamento corretto del modello strutturale.

Giudizio motivato di accettabilità dei risultati
I risultati delle elaborazioni sono stati sottoposti a controlli dal sottoscritto utente del software. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali. Inoltre sulla base di considerazioni riguardanti gli stati tensionali e deformativi

determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni.
In base a quanto sopra, io sottoscritto asserisco che l'elaborazione è corretta ed idonea al caso specifico, pertanto i risultati di calcolo sono da ritenersi validi ed accettabili.

Luogo e data

_____

Il progettista
(Iacopo Parenti)

_____

Progetto: Cava Sassicheto
Ditta: Sa.Des. Costruzioni
Comune: Firenzuola
Progettista: Iacopo Parenti
Direttore dei Lavori: Iacopo Parenti
Impresa: Sa.Des. Costruzioni

Normative di riferimento

- Legge nr. 64 del 02/02/1974.
Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- D.M. LL.PP. del 11/03/1988.
Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
- D.M. 16 Gennaio 1996
Norme Tecniche per le costruzioni in zone sismiche
- Circolare Ministero LL.PP. 15 Ottobre 1996 N. 252 AA.GG./S.T.C.
Istruzioni per l'applicazione delle Norme Tecniche di cui al D.M. 9 Gennaio 1996
- Circolare Ministero LL.PP. 10 Aprile 1997 N. 65/AA.GG.
Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche di cui al D.M. 16 Gennaio 1996

- Norme Tecniche per le Costruzioni 2008 (D.M. 14 Gennaio 2008)
- Circolare 617 del 02/02/2009
Istruzioni per l'applicazione delle Nuove Norme Tecniche per le Costruzioni di cui al D.M. 14 gennaio 2008.

Descrizione metodo di calcolo

La verifica alla stabilità del pendio deve fornire un coefficiente di sicurezza non inferiore a **1.10**.
Viene usata la tecnica della suddivisione a strisce della superficie di scorrimento da analizzare.
In particolare il programma esamina un numero di superfici che dipende dalle impostazioni fornite e che sono riportate nella corrispondente sezione. Il processo iterativo permette di determinare il coefficiente di sicurezza di tutte le superfici analizzate.
Nella descrizione dei metodi di calcolo si adotterà la seguente simbologia:

l lunghezza della base della striscia
α angolo della base della striscia rispetto all'orizzontale
b larghezza della striscia b=l x cos(α)
ϕ angolo di attrito lungo la base della striscia
c coesione lungo la base della striscia
γ peso di volume del terreno
u pressione neutra
W peso della striscia
N sforzo normale alla base della striscia
T sforzo di taglio alla base della striscia
$\mathbf{E_s}$, $\mathbf{E_d}$ forze normali di interstriscia a sinistra e a destra
$\mathbf{X_s}$, $\mathbf{X_d}$ forze tangenziali di interstriscia a sinistra e a destra
$\mathbf{E_a}$, $\mathbf{E_b}$ forze normali di interstriscia alla base ed alla sommità del pendio
ΔX variazione delle forze tangenziali sulla striscia $\mathbf{\Delta X = X_d - X_s}$
ΔE variazione delle forze normali sulla striscia $\mathbf{\Delta E = E_d - E_s}$

Metodo di Janbu (semplificato)

Il coefficiente di sicurezza nel metodo di **Janbu semplificato** si esprime secondo la seguente formula:

$$F = \frac{\Sigma[\, c_i\, b_i + (N_i / \cos(\alpha_i) - u_i\, b_i)\, tg\phi_i \,]}{\Sigma_i\, [\, W_i \tan\alpha_i \,]}$$

dove il termine $\mathbf{N_i}$ è espresso da

$$N_i = [\, W_i - c_i\, l_i \sin\alpha_t / \eta + u_i\, l_i \tan\phi \sin\alpha_t / F \,] / m$$

dove il termine **m** è espresso da

$$m = \cos\alpha + (\sin\alpha \tan\phi) / F$$

In questa espressione **n** è il numero delle strisce considerate, $\mathbf{b_i}$ e $\mathbf{\alpha_i}$ sono la larghezza e l'inclinazione della base della striscia $\mathbf{i_{esima}}$ rispetto all'orizzontale, $\mathbf{W_i}$ è il peso della striscia $\mathbf{i_{esima}}$, $\mathbf{c_i}$ e $\mathbf{\phi_i}$ sono le caratteristiche del terreno (coesione ed angolo di attrito) lungo la base della striscia ed $\mathbf{u_i}$ è la pressione neutra lungo la base della striscia.

L'espressione del coefficiente di sicurezza di **Janbu semplificato** contiene al secondo membro il termine **m** che è funzione di **F**. Quindi essa viene risolta per successive approssimazioni assumendo un valore iniziale per **F** da inserire nell'espressione di **m** ed iterare finquando il valore calcolato coincide con il valore assunto.
La semplificazione del metodo rispetto al procedimento completo consiste nel trascurare le forze tangenziali di interstriscia.

Descrizione terreno

Simbologia adottata

Nr. Indice del terreno
Descrizione Descrizione terreno
γ Peso di volume del terreno espresso in kN/mc
γ_w Peso di volume saturo del terreno espresso in kN/mc
ϕ Angolo d'attrito interno 'efficace' del terreno espresso in gradi
c Coesione 'efficace' del terreno espressa in kPa
ϕ_u Angolo d'attrito interno 'totale' del terreno espresso gradi
c_u Coesione 'totale' del terreno espressa in kPa

Nr.	Descrizione	γ	γ_w	ϕ'	c'	ϕ_u	c_u
1	Detrito	18.00	21.00	48.00	8.0	0.00	39.2
2	Substrato	26.00	26.00	49.00	160.0	0.00	39.2

Profilo del piano campagna

Simbologia e convenzioni di segno adottate

L'ascissa è intesa positiva da sinistra verso destra e l'ordinata positiva verso l'alto.
Nr. Identificativo del punto
X Ascissa del punto del profilo espressa in m
Y Ordinata del punto del profilo espressa in m

Nr.	X [m]	Y [m]
1	0.00	76.36
2	6.83	75.23
3	11.38	74.53
4	14.93	73.98
5	16.62	74.09
6	18.66	74.36
7	20.41	75.23
8	23.06	77.23
9	24.73	79.23
10	27.13	81.23
11	30.92	83.23
12	35.19	85.23
13	35.48	85.39
14	38.92	87.23
15	39.09	87.34
16	39.93	87.83
17	41.92	88.99
18	42.34	89.23
19	44.21	90.47
20	45.36	91.23
21	45.59	91.36
22	46.16	91.67
23	48.17	92.77
24	49.03	93.23
25	50.46	93.93
26	52.05	94.73

27	52.58	94.99
28	53.04	95.23
29	55.69	96.70
30	56.65	97.23
31	57.22	97.59
32	58.82	98.59
33	59.58	99.06
34	59.85	99.23
35	62.15	100.41
36	63.78	101.23
37	64.83	101.73
38	66.62	102.57
39	67.49	102.99
40	68.01	103.23
41	68.12	103.32
42	68.34	103.50
43	68.63	103.75
44	68.75	103.85
45	70.54	104.73
46	72.13	106.05
47	72.44	106.20
48	72.80	106.37
49	73.43	106.55
50	73.96	106.60
51	75.18	106.77
52	75.92	107.08
53	78.43	108.17
54	82.21	108.33
55	82.95	108.35
56	84.21	108.39
57	84.84	108.74
58	87.81	109.77
59	89.94	110.09
60	90.46	110.09
61	91.61	110.08
62	93.06	110.22
63	95.72	110.55
64	95.79	111.16
65	103.99	116.69
66	107.15	117.50
67	107.44	118.28
68	112.39	121.18
69	116.46	125.54
70	116.99	126.10
71	119.01	127.87
72	119.49	128.29
73	122.34	130.86
74	125.77	130.95
75	135.15	131.22
76	135.27	131.22
77	135.28	131.22

78	135.29	131.22
79	135.34	131.22
80	136.69	131.23
81	139.49	131.25
82	141.15	138.98
83	141.53	140.79
84	141.73	140.87
85	141.88	140.94
86	142.26	141.11
87	142.99	141.43
88	146.71	143.07
89	146.76	143.12
90	146.80	143.16
91	146.84	143.19
92	146.86	143.20
93	146.88	143.22
94	146.92	143.23
95	147.88	143.23
96	148.46	143.23
97	150.82	146.21
98	152.22	148.02

Descrizione stratigrafia

Simbologia e convenzioni di segno adottate
Gli strati sono descritti mediante i punti di contorno (in senso antiorario) e l'indice del terreno di cui è costituito

Strato N° **1** costituito da terreno n° 2 (Substrato)

Coordinate dei vertici dello strato n° 1

N°	**X[m]**	**Y[m]**
1	11.38	74.53
2	6.83	75.23
3	0.00	76.36
4	0.00	0.00
5	152.22	0.00
6	152.22	148.02
7	150.82	146.21
8	148.46	143.23
9	147.88	143.23
10	146.92	143.23
11	146.88	143.22
12	146.86	143.20
13	146.84	143.19
14	146.80	143.16
15	146.76	143.12
16	146.71	143.07
17	142.99	141.43
18	142.26	141.11
19	141.88	140.94

20	141.73	140.87
21	141.53	140.79
22	141.15	138.98
23	139.49	131.25
24	136.69	131.23
25	135.34	131.22
26	135.29	131.22
27	135.28	131.22
28	135.27	131.22
29	135.15	131.22
30	125.77	130.95
31	122.34	130.86
32	119.49	128.29
33	119.01	127.87
34	116.99	126.10
35	116.46	125.54
36	112.39	121.18
37	107.44	118.28
38	107.15	117.50
39	103.99	116.69
40	95.79	111.16
41	95.72	110.55
42	94.80	109.23
43	89.17	107.23
44	83.85	105.23
45	81.43	103.23
46	78.66	101.23
47	74.43	99.23
48	71.20	97.23
49	65.37	95.23
50	63.09	93.23
51	59.79	91.23
52	56.31	89.23
53	53.87	87.23
54	49.18	85.23
55	47.48	83.23
56	40.66	81.23
57	37.56	79.23
58	35.19	75.90
59	32.02	73.12
60	24.66	70.03
61	19.27	67.70
62	18.16	67.72
63	16.48	68.57

Strato N° **2** costituito da terreno n° 1 (Detrito)

Coordinate dei vertici dello strato n° 2

N°	**X[m]**	**Y[m]**
1	95.72	110.55

2	93.06	110.22
3	91.61	110.08
4	90.46	110.09
5	89.94	110.09
6	87.81	109.77
7	84.84	108.74
8	84.21	108.39
9	82.95	108.35
10	82.21	108.33
11	78.43	108.17
12	75.92	107.08
13	75.18	106.77
14	73.96	106.60
15	73.43	106.55
16	72.80	106.37
17	72.44	106.20
18	72.13	106.05
19	70.54	104.73
20	68.75	103.85
21	68.63	103.75
22	68.34	103.50
23	68.12	103.32
24	68.01	103.23
25	67.49	102.99
26	66.62	102.57
27	64.83	101.73
28	63.78	101.23
29	62.15	100.41
30	59.85	99.23
31	59.58	99.06
32	58.82	98.59
33	57.22	97.59
34	56.65	97.23
35	55.69	96.70
36	53.04	95.23
37	52.58	94.99
38	52.05	94.73
39	50.46	93.93
40	49.03	93.23
41	48.17	92.77
42	46.16	91.67
43	45.59	91.36
44	45.36	91.23
45	44.21	90.47
46	42.34	89.23
47	41.92	88.99
48	39.93	87.83
49	39.09	87.34
50	38.92	87.23
51	35.48	85.39
52	35.19	85.23

53	30.92	83.23
54	27.13	81.23
55	24.73	79.23
56	23.06	77.23
57	20.41	75.23
58	18.66	74.36
59	16.62	74.09
60	14.93	73.98
61	11.38	74.53
62	16.48	68.57
63	18.16	67.72
64	19.27	67.70
65	24.66	70.03
66	32.02	73.12
67	35.19	75.90
68	37.56	79.23
69	40.66	81.23
70	47.48	83.23
71	49.18	85.23
72	53.87	87.23
73	56.31	89.23
74	59.79	91.23
75	63.09	93.23
76	65.37	95.23
77	71.20	97.23
78	74.43	99.23
79	78.66	101.23
80	81.43	103.23
81	83.85	105.23
82	89.17	107.23
83	94.80	109.23

Descrizione falda

Livello di falda

Nr.	X[m]	Y[m]
1	0.00	76.00
2	16.00	72.00
3	18.00	72.00
4	20.00	72.00
5	24.00	74.00
6	36.00	80.00
7	60.00	94.00
8	78.00	104.00
9	90.46	109.09
10	152.22	112.00

Risultati analisi

Per l'analisi sono stati utilizzati i seguenti metodi di calcolo :
Metodo di JANBU (J)

Impostazioni analisi
Normativa :
Norme Tecniche sulle Costruzioni 14/01/2008

Coefficienti di partecipazione caso statico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.30	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.50	1.30

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Coefficienti di partecipazione caso sismico

Coefficienti parziali per le azioni o per l'effetto delle azioni:

Carichi	*Effetto*		*A1*	*A2*
Permanenti	Favorevole	γ_{Gfav}	1.00	1.00
Permanenti	Sfavorevole	γ_{Gsfav}	1.00	1.00
Variabili	Favorevole	γ_{Qfav}	0.00	0.00
Variabili	Sfavorevole	γ_{Qsfav}	1.00	1.00

Coefficienti parziali per i parametri geotecnici del terreno:

Parametri		*M1*	*M2*
Tangente dell'angolo di attrito	$\gamma_{tan\phi'}$	1.00	1.25
Coesione efficace	$\gamma_{c'}$	1.00	1.25
Resistenza non drenata	γ_{cu}	1.00	1.40
Resistenza a compressione uniassiale	γ_{qu}	1.00	1.60
Peso dell'unità di volume	γ_{γ}	1.00	1.00

Sisma

Accelerazione al suolo a_g =	1.943 [m/s^2]
Coefficiente di amplificazione per tipo di sottosuolo (Ss)	1.20
Coefficiente di amplificazione topografica (St)	1.04
Coefficiente riduzione (β_s)	0.24
Rapporto intensità sismica verticale/orizzontale	0.50
Coefficiente di intensità sismica orizzontale (percento)	$k_h=(a_g/g*\beta_s*St*S)$ = 5.93
Coefficiente di intensità sismica verticale (percento)	$k_v=0.50 * k_h$ = 2.97
Coefficiente di sicurezza richiesto	1.10

Le superfici sono state analizzate per i casi: [PC] [A2M2]
Sisma verticale: verso il basso - verso l'alto
Analisi condotta in termini di tensioni efficaci
Presenza di falda

Impostazioni delle superfici di rottura

Si considerano delle superfici di rottura circolari generate tramite la seguente maglia dei centri

Origine maglia [m]:	X_0 = 16.00	Y_0 = 88.00
Passo maglia [m]:	dX = 5.00	dY = 5.00
Numero passi :	Nx = 15	Ny = 12
Raggio [m]:	R = 3.00	

Si utilizza un raggio variabile con passo dR=3.00 [m] ed un numero di incrementi pari a 10

Sono state escluse dall'analisi le superfici aventi:
- lunghezza di corda inferiore a 1.00 m
- freccia inferiore a 0.50 m
- volume inferiore a 2.00 mc

Numero di superfici analizzate	1840
Coefficiente di sicurezza minimo	1.565
Superficie con coefficiente di sicurezza minimo	1

Quadro sintetico coefficienti di sicurezza

Metodo	**Nr. superfici**	**FS_{min}**	**S_{min}**	**FS_{max}**	**S_{max}**
JANBU	1840	1.565	1	13.738	1840

Caratteristiche delle superfici analizzate

Simbologia adottata

Le ascisse X sono considerate positive verso monte
Le ordinate Y sono considerate positive verso l'alto

N°	numero d'ordine della superficie cerchio
C_x	ascissa x del centro [m]
C_y	ordinata y del centro [m]
R	raggio del cerchio espresso in m
x_v, y_v	ascissa e ordinata del punto di intersezione con il profilo (valle) espresse in m
x_m, y_m	ascissa e ordinata del punto di intersezione con il profilo (monte) espresse in m
V	volume interessato dalla superficie espresso [cmq]
C_s	coefficiente di sicurezza
caso	caso di calcolo

N°	C_x	C_y	R	x_v	y_v	x_m	y_m	V	C_s	caso
1	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.565 (J)	[A2M2]
2	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.568 (J)	[A2M2]
3	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.43	1.571 (J)	[A2M2]
4	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.573 (J)	[A2M2]
5	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.43	1.582 (J)	[A2M2]
6	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.586 (J)	[A2M2]
7	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	1.624 (J)	[A2M2]
8	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	1.626 (J)	[A2M2]
9	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	1.629 (J)	[A2M2]
10	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	1.632 (J)	[A2M2]
11	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.05	1.640 (J)	[A2M2]
12	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.60	1.641 (J)	[A2M2]
13	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.60	1.648 (J)	[A2M2]
14	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.05	1.651 (J)	[A2M2]
15	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.56	1.667 (J)	[A2M2]
16	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.56	1.669 (J)	[A2M2]
17	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.95	1.681 (J)	[A2M2]
18	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.95	1.685 (J)	[A2M2]
19	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.14	1.692 (J)	[A2M2]
20	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	1.696 (J)	[A2M2]
21	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	1.701 (J)	[A2M2]
22	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.14	1.701 (J)	[A2M2]
23	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.48	1.711 (J)	[A2M2]
24	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.48	1.723 (J)	[A2M2]
25	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	1.727 (J)	[A2M2]
26	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	1.737 (J)	[A2M2]
27	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	1.741 (J)	[A2M2]
28	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.76	1.746 (J)	[A2M2]
29	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	1.747 (J)	[A2M2]
30	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.76	1.751 (J)	[A2M2]
31	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.17	1.754 (J)	[A2M2]
32	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.17	1.756 (J)	[A2M2]
33	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	1.763 (J)	[A2M2]

34	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	1.768 (J) [A2M2]
35	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	1.770 (J) [A2M2]
36	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	1.771 (J) [A2M2]
37	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	1.772 (J) [A2M2]
38	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	1.772 (J) [A2M2]
39	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	1.776 (J) [A2M2]
40	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	1.776 (J) [A2M2]
41	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	1.777 (J) [A2M2]
42	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	1.777 (J) [A2M2]
43	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	1.777 (J) [A2M2]
44	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	1.780 (J) [A2M2]
45	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.13	1.785 (J) [A2M2]
46	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.13	1.787 (J) [A2M2]
47	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	1.788 (J) [A2M2]
48	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	1.791 (J) [A2M2]
49	46.00	113.00	24.00	42.40	89.27	67.90	103.18	102.99	1.796 (J) [A2M2]
50	46.00	113.00	24.00	42.40	89.27	67.90	103.18	102.99	1.798 (J) [A2M2]
51	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	1.798 (J) [A2M2]
52	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	1.802 (J) [A2M2]
53	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	1.802 (J) [A2M2]
54	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	1.803 (J) [A2M2]
55	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	1.804 (J) [A2M2]
56	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	1.806 (J) [A2M2]
57	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	1.808 (J) [A2M2]
58	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	1.808 (J) [A2M2]
59	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	1.818 (J) [A2M2]
60	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	1.821 (J) [A2M2]
61	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	1.832 (J) [A2M2]
62	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	1.833 (J) [A2M2]
63	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	1.835 (J) [A2M2]
64	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	1.840 (J) [A2M2]
65	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	1.841 (J) [A2M2]
66	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	1.844 (J) [A2M2]
67	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	1.846 (J) [A2M2]
68	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.66	1.848 (J) [A2M2]
69	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	1.848 (J) [A2M2]
70	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.66	1.854 (J) [A2M2]
71	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	1.865 (J) [A2M2]
72	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.77	1.869 (J) [A2M2]
73	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	1.876 (J) [A2M2]
74	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	1.878 (J) [A2M2]
75	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	1.878 (J) [A2M2]
76	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.77	1.879 (J) [A2M2]
77	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	1.880 (J) [A2M2]
78	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.83	1.883 (J) [A2M2]
79	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	1.887 (J) [A2M2]
80	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	1.887 (J) [A2M2]
81	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	1.888 (J) [A2M2]
82	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	1.890 (J) [A2M2]
83	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	1.891 (J) [A2M2]
84	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	1.891 (J) [A2M2]

85	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.83	1.892 (J)	[A2M2]
86	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.31	1.894 (J)	[A2M2]
87	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.35	1.895 (J)	[A2M2]
88	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.32	1.898 (J)	[A2M2]
89	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	1.899 (J)	[A2M2]
90	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.32	1.899 (J)	[A2M2]
91	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.31	1.900 (J)	[A2M2]
92	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.30	1.900 (J)	[A2M2]
93	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.30	1.900 (J)	[A2M2]
94	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	1.900 (J)	[A2M2]
95	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.42	1.900 (J)	[A2M2]
96	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	1.901 (J)	[A2M2]
97	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.30	1.901 (J)	[A2M2]
98	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.30	1.901 (J)	[A2M2]
99	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	1.903 (J)	[A2M2]
100	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.42	1.904 (J)	[A2M2]
101	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	1.906 (J)	[A2M2]
102	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	1.909 (J)	[A2M2]
103	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.35	1.911 (J)	[A2M2]
104	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	1.912 (J)	[A2M2]
105	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	1.939 (J)	[A2M2]
106	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.86	1.939 (J)	[A2M2]
107	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.09	1.941 (J)	[A2M2]
108	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	1.943 (J)	[A2M2]
109	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	1.944 (J)	[A2M2]
110	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.75	1.945 (J)	[A2M2]
111	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.08	1.945 (J)	[A2M2]
112	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	1.945 (J)	[A2M2]
113	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	1.946 (J)	[A2M2]
114	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	1.947 (J)	[A2M2]
115	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	1.947 (J)	[A2M2]
116	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	1.948 (J)	[A2M2]
117	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.93	1.949 (J)	[A2M2]
118	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.86	1.951 (J)	[A2M2]
119	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.75	1.951 (J)	[A2M2]
120	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	1.952 (J)	[A2M2]
121	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.09	1.952 (J)	[A2M2]
122	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.93	1.953 (J)	[A2M2]
123	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.957 (J)	[PC]
124	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.08	1.958 (J)	[A2M2]
125	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	1.959 (J)	[A2M2]
126	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.960 (J)	[PC]
127	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.43	1.964 (J)	[PC]
128	21.00	98.00	24.00	17.68	74.23	43.67	90.11	120.30	1.966 (J)	[PC]
129	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	1.970 (J)	[A2M2]
130	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	1.973 (J)	[A2M2]
131	21.00	88.00	12.00	21.44	76.01	32.26	83.86	24.43	1.978 (J)	[PC]
132	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	1.978 (J)	[A2M2]
133	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	1.981 (J)	[A2M2]
134	16.00	93.00	18.00	21.07	75.73	31.20	83.36	14.38	1.982 (J)	[PC]
135	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	1.984 (J)	[A2M2]

136	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	1.984 (J)	[A2M2]
137	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	1.992 (J)	[A2M2]
138	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	1.996 (J)	[A2M2]
139	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	2.001 (J)	[A2M2]
140	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	2.012 (J)	[A2M2]
141	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	2.013 (J)	[A2M2]
142	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	2.021 (J)	[A2M2]
143	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	2.029 (J)	[PC]
144	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	2.033 (J)	[A2M2]
145	21.00	88.00	15.00	15.56	74.02	35.80	85.56	84.15	2.033 (J)	[PC]
146	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	2.036 (J)	[PC]
147	21.00	93.00	18.00	20.00	75.03	37.84	86.65	63.31	2.040 (J)	[PC]
148	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.40	2.041 (J)	[A2M2]
149	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.07	2.042 (J)	[A2M2]
150	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	2.043 (J)	[A2M2]
151	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.07	2.045 (J)	[A2M2]
152	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.05	2.050 (J)	[PC]
153	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.60	2.051 (J)	[PC]
154	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.40	2.055 (J)	[A2M2]
155	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	2.057 (J)	[A2M2]
156	36.00	113.00	30.00	31.24	83.38	63.54	101.11	155.60	2.060 (J)	[PC]
157	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	2.060 (J)	[A2M2]
158	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	2.063 (J)	[A2M2]
159	41.00	108.00	24.00	34.49	84.90	64.06	101.37	164.05	2.064 (J)	[PC]
160	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	2.065 (J)	[A2M2]
161	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	2.066 (J)	[A2M2]
162	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	2.068 (J)	[A2M2]
163	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	2.069 (J)	[A2M2]
164	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	2.070 (J)	[A2M2]
165	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.074 (J)	[A2M2]
166	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	2.076 (J)	[A2M2]
167	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	2.078 (J)	[A2M2]
168	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	2.082 (J)	[A2M2]
169	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.56	2.084 (J)	[PC]
170	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	2.084 (J)	[A2M2]
171	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	2.085 (J)	[A2M2]
172	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	2.085 (J)	[A2M2]
173	21.00	103.00	27.00	21.43	76.00	45.27	91.17	90.56	2.086 (J)	[PC]
174	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	2.088 (J)	[A2M2]
175	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.20	2.089 (J)	[A2M2]
176	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	2.091 (J)	[A2M2]
177	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.093 (J)	[A2M2]
178	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.20	2.093 (J)	[A2M2]
179	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.84	2.098 (J)	[A2M2]
180	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.95	2.101 (J)	[PC]
181	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.95	2.102 (J)	[A2M2]
182	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	2.103 (J)	[A2M2]
183	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	2.104 (J)	[A2M2]
184	26.00	108.00	30.00	23.77	78.08	53.18	95.31	137.95	2.106 (J)	[PC]
185	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.42	2.106 (J)	[A2M2]
186	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.84	2.107 (J)	[A2M2]

187	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.42	2.113 (J)	[A2M2]
188	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.14	2.115 (J)	[PC]
189	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	2.119 (J)	[A2M2]
190	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	2.120 (J)	[PC]
191	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.18	2.124 (J)	[A2M2]
192	41.00	113.00	27.00	37.14	86.28	65.72	102.15	127.86	2.126 (J)	[PC]
193	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.95	2.126 (J)	[A2M2]
194	26.00	93.00	18.00	21.03	75.70	43.78	90.18	128.14	2.126 (J)	[PC]
195	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.18	2.131 (J)	[A2M2]
196	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	2.132 (J)	[A2M2]
197	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.63	2.136 (J)	[A2M2]
198	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	2.138 (J)	[A2M2]
199	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.48	2.139 (J)	[PC]
200	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.25	2.139 (J)	[A2M2]
201	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	2.141 (J)	[A2M2]
202	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	2.153 (J)	[A2M2]
203	16.00	103.00	27.00	22.47	76.79	37.24	86.33	28.48	2.154 (J)	[PC]
204	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.63	2.156 (J)	[A2M2]
205	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.25	2.156 (J)	[A2M2]
206	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.39	2.158 (J)	[A2M2]
207	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	2.159 (J)	[A2M2]
208	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	2.159 (J)	[PC]
209	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.162 (J)	[A2M2]
210	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	2.164 (J)	[A2M2]
211	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	2.169 (J)	[A2M2]
212	46.00	108.00	21.00	40.01	87.87	66.24	102.39	135.46	2.171 (J)	[PC]
213	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	2.176 (J)	[PC]
214	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	2.177 (J)	[A2M2]
215	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	2.180 (J)	[A2M2]
216	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.76	2.182 (J)	[PC]
217	21.00	98.00	21.00	22.87	77.08	39.09	87.34	42.15	2.184 (J)	[PC]
218	21.00	93.00	21.00	10.87	74.61	41.57	88.79	153.76	2.189 (J)	[PC]
219	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.39	2.192 (J)	[A2M2]
220	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.17	2.192 (J)	[PC]
221	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.193 (J)	[A2M2]
222	26.00	98.00	21.00	23.03	77.21	45.99	91.58	104.17	2.195 (J)	[PC]
223	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	2.199 (J)	[A2M2]
224	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	2.199 (J)	[A2M2]
225	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	2.202 (J)	[A2M2]
226	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	2.203 (J)	[PC]
227	51.00	118.00	27.00	45.84	91.50	75.64	106.96	142.27	2.210 (J)	[PC]
228	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	2.212 (J)	[PC]
229	41.00	118.00	30.00	40.24	88.01	66.77	102.64	90.27	2.214 (J)	[PC]
230	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	2.215 (J)	[PC]
231	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	2.215 (J)	[PC]
232	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	2.220 (J)	[PC]
233	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	2.220 (J)	[PC]
234	31.00	108.00	27.00	27.20	81.27	55.46	96.57	112.78	2.221 (J)	[PC]
235	36.00	103.00	21.00	30.16	82.83	56.10	96.93	120.53	2.221 (J)	[PC]
236	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.11	2.221 (J)	[A2M2]
237	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	2.222 (J)	[A2M2]

238	21.00	108.00	30.00	23.81	78.13	46.17	91.68	60.45	2.222 (J)	[PC]
239	31.00	113.00	30.00	30.49	83.00	56.45	97.12	75.13	2.225 (J)	[PC]
240	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	2.230 (J)	[A2M2]
241	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	2.230 (J)	[A2M2]
242	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.13	2.231 (J)	[PC]
243	36.00	108.00	24.00	32.97	84.19	57.79	97.95	88.13	2.233 (J)	[PC]
244	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	2.235 (J)	[PC]
245	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.11	2.236 (J)	[A2M2]
246	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	2.237 (J)	[A2M2]
247	46.00	118.00	30.00	40.95	88.43	73.74	106.58	173.28	2.238 (J)	[PC]
248	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	2.243 (J)	[A2M2]
249	46.00	113.00	24.00	42.40	89.27	67.90	103.18	102.99	2.245 (J)	[PC]
250	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	2.247 (J)	[A2M2]
251	46.00	113.00	24.00	42.40	89.27	67.90	103.18	102.99	2.247 (J)	[PC]
252	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	2.248 (J)	[PC]
253	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	2.252 (J)	[PC]
254	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	2.253 (J)	[PC]
255	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.09	2.253 (J)	[A2M2]
256	51.00	123.00	30.00	48.76	93.08	76.61	107.38	101.73	2.253 (J)	[PC]
257	56.00	118.00	24.00	51.46	94.43	77.76	107.88	112.20	2.255 (J)	[PC]
258	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	2.257 (J)	[A2M2]
259	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	2.257 (J)	[PC]
260	26.00	103.00	24.00	24.57	79.04	47.55	92.43	75.65	2.260 (J)	[PC]
261	36.00	113.00	27.00	36.63	86.01	58.84	98.60	55.82	2.260 (J)	[PC]
262	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	2.268 (J)	[A2M2]
263	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	2.273 (J)	[PC]
264	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	2.273 (J)	[A2M2]
265	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.09	2.276 (J)	[A2M2]
266	41.00	108.00	21.00	38.72	87.12	60.15	99.38	68.32	2.277 (J)	[PC]
267	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	2.289 (J)	[PC]
268	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	2.291 (J)	[PC]
269	41.00	103.00	18.00	36.05	85.69	58.38	98.31	95.40	2.294 (J)	[PC]
270	36.00	103.00	18.00	34.79	85.04	51.97	94.69	39.91	2.300 (J)	[PC]
271	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	2.301 (J)	[PC]
272	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	2.304 (J)	[A2M2]
273	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	2.305 (J)	[PC]
274	31.00	103.00	21.00	28.81	82.11	49.78	93.60	56.72	2.308 (J)	[PC]
275	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.66	2.309 (J)	[PC]
276	46.00	118.00	27.00	45.04	91.02	69.10	104.02	68.88	2.310 (J)	[PC]
277	51.00	108.00	18.00	45.04	91.02	68.45	103.60	108.66	2.318 (J)	[PC]
278	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	2.321 (J)	[A2M2]
279	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.326 (J)	[A2M2]
280	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	2.331 (J)	[PC]
281	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.77	2.336 (J)	[PC]
282	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.21	2.344 (J)	[A2M2]
283	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	2.344 (J)	[A2M2]
284	61.00	113.00	18.00	54.69	96.14	78.33	108.13	116.16	2.345 (J)	[PC]
285	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	2.347 (J)	[PC]
286	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	2.348 (J)	[PC]
287	41.00	98.00	15.00	34.06	84.70	55.96	96.85	118.77	2.348 (J)	[PC]
288	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.48	2.349 (J)	[A2M2]

289	51.00	113.00	21.00	47.35	92.32	70.24	104.58	79.50	2.350 (J)	[PC]
290	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	2.352 (J)	[A2M2]
291	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.83	2.353 (J)	[PC]
292	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	2.359 (J)	[PC]
293	41.00	113.00	24.00	41.97	89.02	61.09	99.86	40.60	2.359 (J)	[PC]
294	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	2.360 (J)	[PC]
295	36.00	98.00	15.00	31.74	83.62	50.43	93.92	63.03	2.362 (J)	[PC]
296	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.363 (J)	[A2M2]
297	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	2.363 (J)	[PC]
298	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	2.364 (J)	[PC]
299	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.21	2.364 (J)	[A2M2]
300	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	2.365 (J)	[A2M2]
301	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.48	2.365 (J)	[A2M2]
302	26.00	108.00	27.00	26.87	81.01	48.37	92.87	44.83	2.365 (J)	[PC]
303	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.31	2.368 (J)	[A2M2]
304	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.89	2.368 (J)	[A2M2]
305	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.31	2.368 (J)	[PC]
306	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.35	2.368 (J)	[PC]
307	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.32	2.373 (J)	[PC]
308	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	2.373 (J)	[A2M2]
309	51.00	118.00	24.00	50.61	94.00	71.51	105.53	49.28	2.373 (J)	[PC]
310	26.00	88.00	12.00	22.23	76.61	37.93	86.70	69.32	2.373 (J)	[PC]
311	46.00	108.00	18.00	43.72	90.14	62.37	100.52	51.31	2.374 (J)	[PC]
312	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.30	2.375 (J)	[PC]
313	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.30	2.375 (J)	[PC]
314	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	2.375 (J)	[PC]
315	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.42	2.376 (J)	[PC]
316	31.00	98.00	18.00	26.38	80.60	48.23	92.80	84.45	2.376 (J)	[PC]
317	31.00	103.00	24.00	25.28	79.69	53.86	95.68	149.30	2.377 (J)	[PC]
318	56.00	123.00	27.00	54.50	96.04	78.57	108.18	76.30	2.377 (J)	[PC]
319	31.00	108.00	24.00	32.69	84.06	50.43	93.92	29.08	2.378 (J)	[PC]
320	56.00	113.00	18.00	53.06	95.24	72.72	106.33	59.42	2.380 (J)	[PC]
321	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	2.382 (J)	[PC]
322	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	2.386 (J)	[A2M2]
323	26.00	93.00	15.00	23.83	78.16	40.12	87.94	52.49	2.386 (J)	[PC]
324	61.00	123.00	27.00	55.46	96.57	83.70	108.37	136.35	2.389 (J)	[PC]
325	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.89	2.389 (J)	[A2M2]
326	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.43	2.390 (J)	[A2M2]
327	21.00	93.00	15.00	23.95	78.29	33.23	84.31	12.48	2.391 (J)	[PC]
328	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.31	2.392 (J)	[A2M2]
329	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	2.395 (J)	[A2M2]
330	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.28	2.400 (J)	[A2M2]
331	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	2.401 (J)	[A2M2]
332	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.54	2.401 (J)	[A2M2]
333	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.43	2.403 (J)	[A2M2]
334	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.54	2.404 (J)	[A2M2]
335	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	2.407 (J)	[A2M2]
336	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.03	2.410 (J)	[A2M2]
337	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.28	2.411 (J)	[A2M2]
338	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.62	2.412 (J)	[A2M2]
339	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.62	2.414 (J)	[A2M2]

340	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.28	2.414 (J)	[A2M2]
341	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	2.423 (J)	[A2M2]
342	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	2.424 (J)	[PC]
343	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.86	2.424 (J)	[PC]
344	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.63	2.425 (J)	[A2M2]
345	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.09	2.426 (J)	[PC]
346	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	2.428 (J)	[A2M2]
347	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.19	2.428 (J)	[A2M2]
348	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	2.428 (J)	[PC]
349	41.00	98.00	12.00	37.56	86.50	52.62	95.01	45.80	2.430 (J)	[PC]
350	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.75	2.431 (J)	[PC]
351	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.08	2.431 (J)	[PC]
352	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	2.431 (J)	[PC]
353	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	2.433 (J)	[PC]
354	46.00	103.00	15.00	41.44	88.71	60.61	99.62	74.62	2.434 (J)	[PC]
355	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	2.434 (J)	[PC]
356	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.03	2.435 (J)	[A2M2]
357	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	2.435 (J)	[A2M2]
358	56.00	108.00	15.00	50.61	94.00	70.66	104.83	83.29	2.435 (J)	[PC]
359	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	2.437 (J)	[A2M2]
360	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.93	2.437 (J)	[PC]
361	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.28	2.437 (J)	[A2M2]
362	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	2.437 (J)	[A2M2]
363	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	2.438 (J)	[A2M2]
364	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.79	2.438 (J)	[A2M2]
365	21.00	103.00	30.00	11.70	74.48	49.43	93.43	199.86	2.439 (J)	[PC]
366	31.00	93.00	15.00	24.84	79.32	45.93	91.54	107.75	2.439 (J)	[PC]
367	51.00	108.00	15.00	48.88	93.15	64.57	101.61	35.21	2.440 (J)	[PC]
368	56.00	118.00	21.00	56.24	97.00	73.62	106.57	34.09	2.440 (J)	[PC]
369	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.63	2.441 (J)	[A2M2]
370	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.55	2.442 (J)	[A2M2]
371	36.00	108.00	27.00	28.63	82.02	61.87	100.27	196.93	2.442 (J)	[PC]
372	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.62	2.445 (J)	[A2M2]
373	46.00	123.00	30.00	48.85	93.14	69.32	104.13	36.08	2.448 (J)	[PC]
374	41.00	103.00	15.00	40.25	88.02	54.20	95.87	27.28	2.449 (J)	[PC]
375	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.62	2.452 (J)	[A2M2]
376	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	2.453 (J)	[A2M2]
377	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.19	2.454 (J)	[A2M2]
378	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	2.457 (J)	[A2M2]
379	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.26	2.460 (J)	[A2M2]
380	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.55	2.461 (J)	[A2M2]
381	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	2.462 (J)	[A2M2]
382	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	2.462 (J)	[PC]
383	61.00	118.00	21.00	56.92	97.40	79.58	108.22	85.27	2.466 (J)	[PC]
384	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.97	2.466 (J)	[A2M2]
385	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.79	2.468 (J)	[A2M2]
386	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	2.468 (J)	[A2M2]
387	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	2.473 (J)	[PC]
388	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.26	2.473 (J)	[A2M2]
389	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.07	2.474 (J)	[A2M2]
390	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	2.476 (J)	[PC]

391	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	2.480 (J)	[PC]
392	61.00	113.00	15.00	58.28	98.25	74.61	106.69	42.29	2.480 (J)	[PC]
393	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	2.481 (J)	[A2M2]
394	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.14	2.483 (J)	[A2M2]
395	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	2.484 (J)	[A2M2]
396	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	2.487 (J)	[A2M2]
397	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	2.490 (J)	[PC]
398	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.97	2.492 (J)	[A2M2]
399	46.00	113.00	21.00	46.79	92.01	63.19	100.93	26.59	2.495 (J)	[PC]
400	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.07	2.498 (J)	[A2M2]
401	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.54	2.498 (J)	[A2M2]
402	36.00	118.00	30.00	40.92	88.41	58.93	98.66	26.78	2.502 (J)	[PC]
403	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	2.504 (J)	[A2M2]
404	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.48	2.505 (J)	[A2M2]
405	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.48	2.506 (J)	[A2M2]
406	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	2.506 (J)	[A2M2]
407	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	2.508 (J)	[A2M2]
408	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	2.509 (J)	[A2M2]
409	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	2.510 (J)	[A2M2]
410	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.54	2.510 (J)	[A2M2]
411	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	2.515 (J)	[PC]
412	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	2.516 (J)	[A2M2]
413	36.00	108.00	21.00	38.85	87.19	52.42	94.91	17.92	2.516 (J)	[PC]
414	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.14	2.520 (J)	[A2M2]
415	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.77	2.523 (J)	[A2M2]
416	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	2.525 (J)	[A2M2]
417	56.00	128.00	30.00	57.98	98.07	78.51	108.17	42.27	2.526 (J)	[PC]
418	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.56	2.527 (J)	[A2M2]
419	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.09	2.528 (J)	[A2M2]
420	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.89	2.529 (J)	[A2M2]
421	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.53	2.529 (J)	[A2M2]
422	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.56	2.529 (J)	[A2M2]
423	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.09	2.530 (J)	[A2M2]
424	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.29	2.535 (J)	[A2M2]
425	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.77	2.536 (J)	[A2M2]
426	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	2.536 (J)	[A2M2]
427	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.46	2.541 (J)	[A2M2]
428	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	2.541 (J)	[PC]
429	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	2.541 (J)	[A2M2]
430	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.89	2.545 (J)	[A2M2]
431	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.63	2.545 (J)	[A2M2]
432	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.93	2.547 (J)	[A2M2]
433	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	2.548 (J)	[A2M2]
434	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.72	2.551 (J)	[A2M2]
435	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.40	2.551 (J)	[PC]
436	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.07	2.552 (J)	[PC]
437	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.53	2.554 (J)	[A2M2]
438	26.00	98.00	18.00	25.66	80.00	41.41	88.69	31.20	2.554 (J)	[PC]
439	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.93	2.555 (J)	[A2M2]
440	51.00	103.00	12.00	46.52	91.87	62.78	100.73	55.07	2.556 (J)	[PC]
441	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.29	2.557 (J)	[A2M2]

442	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.68	2.557 (J)	[A2M2]
443	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	2.558 (J)	[A2M2]
444	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	2.559 (J)	[A2M2]
445	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.46	2.560 (J)	[A2M2]
446	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.68	2.561 (J)	[A2M2]
447	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.08	2.561 (J)	[A2M2]
448	36.00	108.00	30.00	25.52	79.89	65.39	101.99	337.96	2.565 (J)	[A2M2]
449	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.34	2.566 (J)	[A2M2]
450	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	2.568 (J)	[A2M2]
451	26.00	103.00	27.00	21.85	76.32	51.63	94.52	174.40	2.569 (J)	[PC]
452	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.63	2.570 (J)	[A2M2]
453	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	2.572 (J)	[A2M2]
454	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	2.572 (J)	[PC]
455	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.82	2.574 (J)	[A2M2]
456	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	2.575 (J)	[PC]
457	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.72	2.576 (J)	[A2M2]
458	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	2.578 (J)	[A2M2]
459	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	2.578 (J)	[A2M2]
460	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	2.579 (J)	[PC]
461	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.34	2.580 (J)	[A2M2]
462	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.30	2.581 (J)	[A2M2]
463	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	2.581 (J)	[PC]
464	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	2.582 (J)	[PC]
465	46.00	98.00	12.00	39.78	87.74	58.00	98.08	92.55	2.585 (J)	[PC]
466	61.00	123.00	24.00	59.55	99.04	79.92	108.23	52.68	2.586 (J)	[PC]
467	26.00	88.00	9.00	24.63	79.11	34.44	84.88	19.38	2.588 (J)	[PC]
468	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.47	2.590 (J)	[A2M2]
469	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.08	2.591 (J)	[A2M2]
470	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.592 (J)	[PC]
471	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.47	2.592 (J)	[A2M2]
472	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.82	2.593 (J)	[A2M2]
473	56.00	108.00	12.00	54.58	96.08	66.73	102.62	22.28	2.596 (J)	[PC]
474	36.00	108.00	30.00	25.52	79.89	65.39	101.99	337.96	2.597 (J)	[A2M2]
475	56.00	103.00	12.00	49.03	93.23	68.00	103.22	102.22	2.598 (J)	[PC]
476	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.30	2.599 (J)	[A2M2]
477	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.42	2.602 (J)	[A2M2]
478	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	2.603 (J)	[PC]
479	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.96	2.604 (J)	[A2M2]
480	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.09	2.604 (J)	[A2M2]
481	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.79	2.604 (J)	[A2M2]
482	61.00	108.00	12.00	56.22	96.99	72.89	106.40	62.31	2.605 (J)	[PC]
483	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	2.606 (J)	[PC]
484	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	2.607 (J)	[PC]
485	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.34	2.608 (J)	[A2M2]
486	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.92	2.608 (J)	[A2M2]
487	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	2.609 (J)	[A2M2]
488	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.65	2.609 (J)	[A2M2]
489	36.00	93.00	12.00	29.88	82.68	48.00	92.67	81.88	2.610 (J)	[PC]
490	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.20	2.611 (J)	[PC]
491	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	2.613 (J)	[PC]
492	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	2.615 (J)	[A2M2]

493	21.00	103.00	24.00	24.82	79.31	39.28	87.45	20.62	2.616 (J)	[PC]
494	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.79	2.616 (J)	[A2M2]
495	26.00	88.00	15.00	19.20	74.63	40.99	88.45	147.20	2.617 (J)	[PC]
496	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	2.618 (J)	[A2M2]
497	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.65	2.619 (J)	[A2M2]
498	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.42	2.622 (J)	[A2M2]
499	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	2.622 (J)	[A2M2]
500	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.84	2.623 (J)	[PC]
501	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.09	2.624 (J)	[A2M2]
502	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.95	2.627 (J)	[PC]
503	61.00	118.00	18.00	61.36	100.00	75.05	106.75	19.98	2.628 (J)	[PC]
504	36.00	93.00	9.00	33.39	84.39	44.73	90.81	22.87	2.630 (J)	[PC]
505	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.34	2.632 (J)	[A2M2]
506	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.42	2.633 (J)	[PC]
507	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	2.633 (J)	[A2M2]
508	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	2.634 (J)	[A2M2]
509	66.00	113.00	15.00	59.94	99.28	80.23	108.25	86.84	2.634 (J)	[PC]
510	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	2.636 (J)	[A2M2]
511	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.69	2.639 (J)	[A2M2]
512	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.92	2.641 (J)	[A2M2]
513	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	2.641 (J)	[A2M2]
514	61.00	128.00	30.00	58.10	98.14	83.69	108.37	93.42	2.642 (J)	[PC]
515	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.96	2.643 (J)	[A2M2]
516	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	2.643 (J)	[A2M2]
517	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	2.645 (J)	[A2M2]
518	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	2.648 (J)	[PC]
519	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.22	2.650 (J)	[A2M2]
520	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.91	2.651 (J)	[A2M2]
521	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.91	2.652 (J)	[A2M2]
522	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.18	2.655 (J)	[PC]
523	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.66	2.655 (J)	[A2M2]
524	51.00	113.00	18.00	52.77	95.09	65.16	101.88	14.95	2.658 (J)	[PC]
525	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.69	2.661 (J)	[A2M2]
526	31.00	93.00	12.00	27.62	81.49	42.41	89.27	37.18	2.664 (J)	[PC]
527	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	2.664 (J)	[A2M2]
528	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	2.665 (J)	[PC]
529	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	2.669 (J)	[A2M2]
530	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.63	2.670 (J)	[PC]
531	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	2.670 (J)	[A2M2]
532	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	2.671 (J)	[A2M2]
533	56.00	103.00	9.00	52.24	94.82	64.92	101.77	37.60	2.673 (J)	[PC]
534	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	2.673 (J)	[A2M2]
535	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	2.673 (J)	[A2M2]
536	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.91	2.673 (J)	[A2M2]
537	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.25	2.673 (J)	[PC]
538	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	2.674 (J)	[A2M2]
539	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	2.675 (J)	[A2M2]
540	51.00	123.00	27.00	54.95	96.29	71.78	105.76	21.81	2.676 (J)	[PC]
541	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	2.680 (J)	[A2M2]
542	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.22	2.685 (J)	[A2M2]
543	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.60	2.687 (J)	[A2M2]

544	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.44	2.688 (J)	[A2M2]
545	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.94	2.689 (J)	[A2M2]
546	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.75	2.689 (J)	[A2M2]
547	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.66	2.690 (J)	[A2M2]
548	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	2.690 (J)	[A2M2]
549	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	2.691 (J)	[PC]
550	41.00	93.00	6.00	39.06	87.32	46.93	92.09	13.63	2.695 (J)	[PC]
551	26.00	98.00	24.00	19.65	74.85	49.57	93.50	207.25	2.695 (J)	[PC]
552	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.39	2.698 (J)	[PC]
553	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	2.698 (J)	[PC]
554	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	2.700 (J)	[A2M2]
555	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.91	2.700 (J)	[A2M2]
556	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.702 (J)	[PC]
557	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.73	2.703 (J)	[A2M2]
558	66.00	113.00	12.00	63.75	101.21	76.60	107.38	25.75	2.705 (J)	[PC]
559	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.86	2.709 (J)	[A2M2]
560	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.60	2.709 (J)	[A2M2]
561	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	2.712 (J)	[PC]
562	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	2.713 (J)	[A2M2]
563	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.27	2.714 (J)	[A2M2]
564	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	2.718 (J)	[A2M2]
565	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.17	2.719 (J)	[A2M2]
566	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.44	2.721 (J)	[A2M2]
567	46.00	98.00	9.00	42.85	89.57	54.82	96.22	31.58	2.721 (J)	[PC]
568	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.66	2.722 (J)	[A2M2]
569	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.86	2.722 (J)	[A2M2]
570	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.63	2.723 (J)	[A2M2]
571	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.17	2.724 (J)	[A2M2]
572	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.66	2.725 (J)	[A2M2]
573	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.57	2.725 (J)	[A2M2]
574	31.00	98.00	15.00	30.50	83.01	43.82	90.21	18.07	2.725 (J)	[PC]
575	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	2.725 (J)	[A2M2]
576	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	2.725 (J)	[A2M2]
577	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.94	2.725 (J)	[A2M2]
578	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.27	2.729 (J)	[A2M2]
579	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.47	2.732 (J)	[A2M2]
580	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.73	2.732 (J)	[A2M2]
581	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.73	2.738 (J)	[A2M2]
582	36.00	98.00	12.00	36.65	86.02	46.21	91.70	9.39	2.739 (J)	[PC]
583	36.00	88.00	24.00	16.45	74.08	57.83	97.97	771.98	2.740 (J)	[A2M2]
584	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.14	2.740 (J)	[A2M2]
585	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.73	2.741 (J)	[A2M2]
586	26.00	113.00	30.00	31.52	83.51	48.14	92.75	16.16	2.742 (J)	[PC]
587	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.75	2.744 (J)	[A2M2]
588	41.00	98.00	24.00	25.38	79.78	64.72	101.68	516.98	2.744 (J)	[A2M2]
589	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	2.749 (J)	[PC]
590	41.00	93.00	9.00	35.88	85.60	49.97	93.69	59.51	2.749 (J)	[PC]
591	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.63	2.752 (J)	[A2M2]
592	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	2.752 (J)	[PC]
593	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	2.753 (J)	[A2M2]
594	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	2.753 (J)	[A2M2]

595	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	2.753 (J)	[A2M2]
596	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.05	2.754 (J)	[A2M2]
597	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.09	2.756 (J)	[A2M2]
598	41.00	98.00	24.00	25.38	79.78	64.72	101.68	516.98	2.759 (J)	[A2M2]
599	56.00	113.00	27.00	42.73	89.49	82.59	108.34	407.08	2.759 (J)	[A2M2]
600	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	2.760 (J)	[A2M2]
601	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	2.761 (J)	[A2M2]
602	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	2.762 (J)	[A2M2]
603	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.09	2.768 (J)	[A2M2]
604	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	2.770 (J)	[A2M2]
605	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.57	2.770 (J)	[A2M2]
606	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.82	2.770 (J)	[A2M2]
607	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.47	2.771 (J)	[A2M2]
608	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	2.773 (J)	[A2M2]
609	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.14	2.775 (J)	[A2M2]
610	36.00	88.00	24.00	16.45	74.08	57.83	97.97	771.98	2.776 (J)	[A2M2]
611	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.11	2.776 (J)	[PC]
612	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.72	2.777 (J)	[A2M2]
613	46.00	103.00	12.00	45.07	91.04	56.47	97.13	16.60	2.777 (J)	[PC]
614	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.28	2.779 (J)	[A2M2]
615	56.00	113.00	24.00	45.60	91.37	79.52	108.22	264.12	2.782 (J)	[A2M2]
616	56.00	113.00	27.00	42.73	89.49	82.59	108.34	407.08	2.783 (J)	[A2M2]
617	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.33	2.785 (J)	[A2M2]
618	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.28	2.785 (J)	[A2M2]
619	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	2.786 (J)	[A2M2]
620	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	2.786 (J)	[A2M2]
621	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	2.787 (J)	[A2M2]
622	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	2.787 (J)	[PC]
623	66.00	118.00	18.00	62.16	100.41	81.15	108.29	58.50	2.787 (J)	[PC]
624	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.20	2.788 (J)	[A2M2]
625	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.05	2.788 (J)	[A2M2]
626	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.81	2.795 (J)	[A2M2]
627	66.00	123.00	24.00	60.60	99.62	85.46	108.96	98.11	2.795 (J)	[PC]
628	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	2.795 (J)	[A2M2]
629	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	2.796 (J)	[PC]
630	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.32	2.798 (J)	[A2M2]
631	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.82	2.802 (J)	[A2M2]
632	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	2.803 (J)	[A2M2]
633	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	2.804 (J)	[PC]
634	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	2.804 (J)	[A2M2]
635	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.81	2.804 (J)	[A2M2]
636	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.10	2.805 (J)	[A2M2]
637	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	2.805 (J)	[A2M2]
638	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.97	2.807 (J)	[A2M2]
639	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	2.807 (J)	[A2M2]
640	66.00	108.00	9.00	61.62	100.14	74.91	106.73	42.51	2.808 (J)	[PC]
641	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.32	2.810 (J)	[A2M2]
642	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	2.812 (J)	[A2M2]
643	56.00	113.00	24.00	45.60	91.37	79.52	108.22	264.12	2.815 (J)	[A2M2]
644	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.09	2.816 (J)	[PC]
645	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.33	2.819 (J)	[A2M2]

646	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	2.820 (J)	[A2M2]
647	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.97	2.821 (J)	[A2M2]
648	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	2.821 (J)	[PC]
649	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.65	2.823 (J)	[A2M2]
650	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.64	2.824 (J)	[A2M2]
651	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	2.825 (J)	[A2M2]
652	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.76	2.826 (J)	[A2M2]
653	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.72	2.826 (J)	[A2M2]
654	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	2.826 (J)	[A2M2]
655	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.27	2.831 (J)	[A2M2]
656	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	2.833 (J)	[A2M2]
657	41.00	118.00	27.00	45.68	91.41	60.93	99.78	15.21	2.835 (J)	[PC]
658	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.79	2.837 (J)	[A2M2]
659	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.20	2.838 (J)	[A2M2]
660	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.64	2.840 (J)	[A2M2]
661	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.67	2.841 (J)	[A2M2]
662	61.00	128.00	27.00	63.57	101.12	79.37	108.21	23.15	2.841 (J)	[PC]
663	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.28	2.842 (J)	[A2M2]
664	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.65	2.844 (J)	[A2M2]
665	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.10	2.844 (J)	[A2M2]
666	26.00	103.00	30.00	17.55	74.21	55.28	96.47	303.09	2.845 (J)	[PC]
667	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.67	2.848 (J)	[A2M2]
668	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.27	2.849 (J)	[A2M2]
669	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.76	2.850 (J)	[A2M2]
670	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	2.852 (J)	[A2M2]
671	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	2.855 (J)	[A2M2]
672	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	2.855 (J)	[A2M2]
673	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	2.856 (J)	[A2M2]
674	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.42	2.857 (J)	[A2M2]
675	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.27	2.858 (J)	[A2M2]
676	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	2.860 (J)	[A2M2]
677	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.44	2.864 (J)	[A2M2]
678	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.79	2.865 (J)	[A2M2]
679	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.30	2.867 (J)	[A2M2]
680	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	2.871 (J)	[A2M2]
681	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.27	2.871 (J)	[A2M2]
682	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.50	2.872 (J)	[A2M2]
683	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.28	2.873 (J)	[A2M2]
684	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.44	2.875 (J)	[A2M2]
685	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.51	2.878 (J)	[A2M2]
686	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	2.880 (J)	[PC]
687	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.42	2.884 (J)	[A2M2]
688	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.78	2.885 (J)	[A2M2]
689	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.25	2.887 (J)	[A2M2]
690	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	2.890 (J)	[A2M2]
691	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.51	2.892 (J)	[A2M2]
692	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.30	2.898 (J)	[A2M2]
693	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.25	2.899 (J)	[A2M2]
694	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.50	2.899 (J)	[A2M2]
695	56.00	113.00	21.00	48.99	93.21	76.18	107.19	147.15	2.901 (J)	[PC]
696	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.907 (J)	[PC]

697	61.00	103.00	24.00	41.63	88.82	84.37	108.48	743.05	2.909 (J)	[A2M2]
698	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.30	2.917 (J)	[A2M2]
699	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.42	2.922 (J)	[A2M2]
700	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.78	2.923 (J)	[A2M2]
701	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.94	2.924 (J)	[A2M2]
702	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.42	2.924 (J)	[A2M2]
703	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	2.926 (J)	[A2M2]
704	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.94	2.927 (J)	[A2M2]
705	61.00	103.00	24.00	41.63	88.82	84.37	108.48	743.05	2.929 (J)	[A2M2]
706	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.21	2.930 (J)	[PC]
707	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	2.930 (J)	[PC]
708	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	2.931 (J)	[A2M2]
709	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.25	2.933 (J)	[A2M2]
710	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	2.935 (J)	[A2M2]
711	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.36	2.935 (J)	[A2M2]
712	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.48	2.937 (J)	[PC]
713	51.00	98.00	9.00	45.20	91.12	59.91	99.26	68.71	2.939 (J)	[PC]
714	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.30	2.941 (J)	[A2M2]
715	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.25	2.943 (J)	[A2M2]
716	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.74	2.944 (J)	[A2M2]
717	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.36	2.949 (J)	[A2M2]
718	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.78	2.952 (J)	[A2M2]
719	16.00	108.00	30.00	24.86	79.34	36.08	85.71	9.74	2.954 (J)	[PC]
720	31.00	103.00	30.00	20.07	75.06	60.82	99.73	421.21	2.955 (J)	[PC]
721	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	2.956 (J)	[A2M2]
722	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	2.956 (J)	[PC]
723	36.00	98.00	18.00	28.18	81.79	53.85	95.68	149.48	2.957 (J)	[PC]
724	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.08	2.958 (J)	[A2M2]
725	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.36	2.958 (J)	[A2M2]
726	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.31	2.960 (J)	[PC]
727	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.89	2.960 (J)	[PC]
728	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.10	2.962 (J)	[A2M2]
729	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.50	2.966 (J)	[A2M2]
730	66.00	123.00	21.00	65.42	102.01	80.98	108.28	30.37	2.966 (J)	[PC]
731	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.74	2.967 (J)	[A2M2]
732	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	2.972 (J)	[A2M2]
733	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.78	2.974 (J)	[A2M2]
734	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.36	2.977 (J)	[A2M2]
735	61.00	113.00	21.00	51.32	94.36	81.47	108.30	217.99	2.979 (J)	[A2M2]
736	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.08	2.979 (J)	[A2M2]
737	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	2.982 (J)	[PC]
738	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	2.983 (J)	[A2M2]
739	31.00	98.00	21.00	23.90	78.24	51.72	94.56	180.89	2.986 (J)	[PC]
740	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.43	2.988 (J)	[PC]
741	26.00	93.00	21.00	16.81	74.12	46.98	92.12	235.31	2.990 (J)	[PC]
742	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	2.994 (J)	[PC]
743	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.50	3.000 (J)	[A2M2]
744	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.10	3.000 (J)	[A2M2]
745	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.45	3.000 (J)	[A2M2]
746	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.28	3.000 (J)	[PC]
747	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	3.001 (J)	[A2M2]

748	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	3.001 (J)	[PC]
749	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.54	3.002 (J)	[PC]
750	41.00	98.00	30.00	20.98	75.66	70.27	104.60	913.43	3.003 (J)	[PC]
751	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.45	3.004 (J)	[A2M2]
752	36.00	98.00	30.00	17.69	74.23	65.71	102.14	775.54	3.004 (J)	[PC]
753	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	3.009 (J)	[PC]
754	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.03	3.012 (J)	[PC]
755	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.43	3.013 (J)	[A2M2]
756	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	3.014 (J)	[A2M2]
757	31.00	98.00	30.00	12.55	74.35	60.95	99.79	642.28	3.014 (J)	[PC]
758	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.62	3.015 (J)	[PC]
759	61.00	113.00	21.00	51.32	94.36	81.47	108.30	217.99	3.015 (J)	[A2M2]
760	31.00	88.00	9.00	26.15	80.42	40.00	87.87	52.62	3.018 (J)	[PC]
761	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.28	3.018 (J)	[PC]
762	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.99	3.022 (J)	[A2M2]
763	51.00	103.00	9.00	50.62	94.01	58.86	98.61	7.69	3.029 (J)	[PC]
764	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.63	3.032 (J)	[PC]
765	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	3.035 (J)	[PC]
766	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.19	3.035 (J)	[PC]
767	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	3.039 (J)	[A2M2]
768	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	3.040 (J)	[A2M2]
769	26.00	98.00	27.00	13.15	74.26	52.85	95.13	344.03	3.044 (J)	[PC]
770	56.00	123.00	24.00	60.08	99.35	73.48	106.55	10.98	3.044 (J)	[PC]
771	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	3.046 (J)	[PC]
772	36.00	93.00	30.00	12.50	74.36	64.72	101.68	1013.28	3.046 (J)	[PC]
773	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	3.047 (J)	[PC]
774	41.00	108.00	18.00	43.84	90.23	54.40	95.99	9.41	3.047 (J)	[PC]
775	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.79	3.048 (J)	[PC]
776	36.00	103.00	30.00	22.03	76.45	65.99	102.27	546.63	3.051 (J)	[PC]
777	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	3.052 (J)	[A2M2]
778	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.55	3.052 (J)	[PC]
779	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.27	3.054 (J)	[A2M2]
780	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.43	3.055 (J)	[A2M2]
781	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.62	3.056 (J)	[PC]
782	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.80	3.056 (J)	[A2M2]
783	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.58	3.056 (J)	[A2M2]
784	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	3.057 (J)	[A2M2]
785	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	3.057 (J)	[A2M2]
786	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.22	3.057 (J)	[A2M2]
787	41.00	103.00	30.00	23.96	78.31	70.93	105.05	678.62	3.065 (J)	[PC]
788	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.47	3.066 (J)	[A2M2]
789	61.00	108.00	9.00	59.65	99.10	69.06	104.00	11.90	3.066 (J)	[PC]
790	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.58	3.067 (J)	[A2M2]
791	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.85	3.067 (J)	[A2M2]
792	31.00	103.00	27.00	23.03	77.20	57.49	97.76	271.19	3.068 (J)	[PC]
793	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.99	3.069 (J)	[A2M2]
794	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.27	3.070 (J)	[A2M2]
795	31.00	113.00	27.00	38.74	87.13	49.77	93.59	7.43	3.071 (J)	[PC]
796	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.80	3.071 (J)	[A2M2]
797	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.073 (J)	[A2M2]
798	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.26	3.075 (J)	[PC]

799	31.00	98.00	27.00	18.09	74.28	58.00	98.08	455.55	3.076 (J)	[PC]
800	71.00	118.00	18.00	64.09	101.38	86.83	109.43	97.08	3.077 (J)	[PC]
801	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.47	3.077 (J)	[A2M2]
802	61.00	108.00	21.00	47.15	92.21	82.00	108.32	381.11	3.082 (J)	[A2M2]
803	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.97	3.083 (J)	[PC]
804	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.10	3.083 (J)	[A2M2]
805	31.00	108.00	30.00	24.33	78.75	59.65	99.10	231.79	3.085 (J)	[PC]
806	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	3.085 (J)	[PC]
807	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.63	3.090 (J)	[A2M2]
808	36.00	93.00	27.00	16.72	74.10	61.99	100.33	787.26	3.092 (J)	[PC]
809	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.07	3.093 (J)	[PC]
810	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.32	3.096 (J)	[A2M2]
811	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	3.096 (J)	[A2M2]
812	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.22	3.101 (J)	[A2M2]
813	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	3.102 (J)	[PC]
814	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.85	3.103 (J)	[A2M2]
815	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.14	3.104 (J)	[PC]
816	51.00	98.00	6.00	48.11	92.74	56.97	97.43	18.44	3.104 (J)	[PC]
817	61.00	108.00	21.00	47.15	92.21	82.00	108.32	381.11	3.107 (J)	[A2M2]
818	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.32	3.107 (J)	[A2M2]
819	41.00	98.00	9.00	42.04	89.06	48.42	92.90	4.53	3.109 (J)	[PC]
820	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.20	3.113 (J)	[A2M2]
821	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.19	3.114 (J)	[A2M2]
822	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.36	3.115 (J)	[A2M2]
823	46.00	98.00	30.00	23.67	77.96	74.71	106.70	1050.97	3.116 (J)	[PC]
824	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.19	3.116 (J)	[A2M2]
825	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.10	3.118 (J)	[A2M2]
826	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.30	3.121 (J)	[A2M2]
827	31.00	98.00	24.00	21.42	75.99	54.94	96.28	303.07	3.122 (J)	[PC]
828	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.63	3.123 (J)	[A2M2]
829	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.54	3.123 (J)	[PC]
830	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.77	3.126 (J)	[A2M2]
831	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.20	3.127 (J)	[A2M2]
832	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.30	3.129 (J)	[A2M2]
833	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	3.130 (J)	[PC]
834	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.48	3.131 (J)	[PC]
835	46.00	103.00	30.00	26.20	80.46	75.73	107.00	812.48	3.132 (J)	[PC]
836	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	3.132 (J)	[PC]
837	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.134 (J)	[A2M2]
838	46.00	113.00	30.00	34.94	85.11	75.36	106.85	356.89	3.135 (J)	[PC]
839	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.77	3.135 (J)	[A2M2]
840	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	3.136 (J)	[PC]
841	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	3.136 (J)	[A2M2]
842	61.00	103.00	9.00	54.98	96.31	69.89	104.41	75.02	3.137 (J)	[PC]
843	36.00	98.00	27.00	20.91	75.61	62.86	100.77	578.54	3.137 (J)	[PC]
844	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	3.141 (J)	[A2M2]
845	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.61	3.143 (J)	[A2M2]
846	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	3.145 (J)	[PC]
847	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.73	3.148 (J)	[A2M2]
848	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.61	3.149 (J)	[A2M2]
849	41.00	93.00	30.00	17.61	74.22	68.93	103.94	1141.14	3.150 (J)	[PC]

850	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.36	3.150 (J)	[A2M2]
851	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.77	3.154 (J)	[PC]
852	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.12	3.155 (J)	[A2M2]
853	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	3.156 (J)	[PC]
854	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.56	3.159 (J)	[PC]
855	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.09	3.160 (J)	[PC]
856	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.89	3.161 (J)	[PC]
857	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.53	3.161 (J)	[PC]
858	66.00	128.00	27.00	63.55	101.11	84.97	108.78	59.56	3.162 (J)	[PC]
859	41.00	98.00	27.00	23.35	77.57	67.53	103.01	703.09	3.162 (J)	[PC]
860	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.63	3.164 (J)	[A2M2]
861	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1244.04	3.165 (J)	[A2M2]
862	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	3.168 (J)	[A2M2]
863	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.29	3.168 (J)	[PC]
864	51.00	103.00	30.00	29.24	82.34	80.54	108.26	941.77	3.169 (J)	[PC]
865	51.00	113.00	24.00	43.71	90.14	74.14	106.62	180.77	3.170 (J)	[PC]
866	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.91	3.170 (J)	[A2M2]
867	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.63	3.172 (J)	[A2M2]
868	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	3.173 (J)	[A2M2]
869	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.46	3.176 (J)	[PC]
870	46.00	113.00	27.00	38.57	87.04	72.08	106.01	213.68	3.176 (J)	[PC]
871	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.50	3.177 (J)	[A2M2]
872	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.49	3.177 (J)	[A2M2]
873	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.50	3.177 (J)	[A2M2]
874	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.70	3.177 (J)	[A2M2]
875	46.00	108.00	30.00	29.90	82.69	75.99	107.11	573.89	3.181 (J)	[PC]
876	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.63	3.181 (J)	[PC]
877	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.73	3.182 (J)	[A2M2]
878	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.93	3.184 (J)	[PC]
879	66.00	118.00	15.00	67.73	103.10	76.58	107.37	8.63	3.186 (J)	[PC]
880	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.72	3.189 (J)	[PC]
881	56.00	123.00	30.00	49.86	93.64	82.17	108.33	175.53	3.192 (J)	[PC]
882	71.00	113.00	12.00	65.80	102.19	82.05	108.32	57.93	3.194 (J)	[PC]
883	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.12	3.195 (J)	[A2M2]
884	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.49	3.196 (J)	[A2M2]
885	31.00	93.00	18.00	22.75	77.00	49.00	93.21	205.29	3.196 (J)	[PC]
886	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.68	3.196 (J)	[PC]
887	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	3.198 (J)	[PC]
888	41.00	113.00	30.00	32.84	84.13	69.72	104.33	250.20	3.199 (J)	[PC]
889	51.00	113.00	30.00	37.25	86.34	80.62	108.26	466.46	3.200 (J)	[PC]
890	31.00	93.00	27.00	11.30	74.54	57.57	97.81	669.68	3.201 (J)	[PC]
891	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.08	3.201 (J)	[PC]
892	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1244.04	3.206 (J)	[A2M2]
893	36.00	108.00	30.00	25.52	79.89	65.39	101.99	337.96	3.206 (J)	[PC]
894	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.34	3.207 (J)	[PC]
895	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.91	3.207 (J)	[A2M2]
896	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	3.209 (J)	[PC]
897	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.62	3.212 (J)	[A2M2]
898	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.62	3.212 (J)	[A2M2]
899	36.00	103.00	27.00	24.27	78.68	62.91	100.79	377.63	3.213 (J)	[PC]
900	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	3.215 (J)	[PC]

901	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.70	3.216 (J)	[A2M2]
902	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.82	3.217 (J)	[PC]
903	41.00	108.00	30.00	27.29	81.32	70.85	104.99	451.72	3.220 (J)	[PC]
904	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.17	3.221 (J)	[A2M2]
905	51.00	103.00	15.00	43.51	90.00	65.98	102.27	132.13	3.222 (J)	[PC]
906	61.00	103.00	6.00	57.78	97.94	66.99	102.75	23.22	3.223 (J)	[PC]
907	31.00	93.00	24.00	16.25	74.07	54.79	96.20	482.34	3.226 (J)	[PC]
908	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.30	3.226 (J)	[PC]
909	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.30	3.236 (J)	[A2M2]
910	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.47	3.238 (J)	[PC]
911	41.00	93.00	27.00	20.57	75.35	66.30	102.42	910.08	3.238 (J)	[PC]
912	36.00	93.00	24.00	20.06	75.06	59.27	98.87	593.47	3.240 (J)	[PC]
913	46.00	98.00	27.00	25.78	80.11	71.84	105.81	821.82	3.241 (J)	[PC]
914	36.00	108.00	30.00	25.52	79.89	65.39	101.99	337.96	3.246 (J)	[PC]
915	71.00	108.00	9.00	64.63	101.64	80.00	108.24	76.30	3.249 (J)	[PC]
916	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.43	3.252 (J)	[A2M2]
917	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.42	3.252 (J)	[PC]
918	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.96	3.254 (J)	[PC]
919	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.09	3.255 (J)	[PC]
920	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.79	3.255 (J)	[PC]
921	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.96	3.257 (J)	[A2M2]
922	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.34	3.260 (J)	[PC]
923	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.92	3.260 (J)	[PC]
924	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	3.261 (J)	[PC]
925	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.59	3.261 (J)	[A2M2]
926	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.72	3.261 (J)	[A2M2]
927	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.65	3.261 (J)	[PC]
928	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.30	3.264 (J)	[A2M2]
929	26.00	103.00	21.00	29.00	82.21	41.33	88.64	9.73	3.268 (J)	[PC]
930	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.96	3.270 (J)	[A2M2]
931	21.00	88.00	18.00	8.59	74.96	38.99	87.27	185.79	3.270 (J)	[PC]
932	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	3.273 (J)	[PC]
933	51.00	108.00	30.00	32.83	84.13	81.00	108.28	691.65	3.274 (J)	[PC]
934	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.29	3.274 (J)	[A2M2]
935	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.43	3.275 (J)	[A2M2]
936	36.00	98.00	24.00	23.36	77.60	59.97	99.29	409.42	3.277 (J)	[PC]
937	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	3.278 (J)	[PC]
938	41.00	103.00	27.00	26.17	80.43	68.00	103.22	490.09	3.280 (J)	[PC]
939	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.64	3.281 (J)	[A2M2]
940	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.17	3.283 (J)	[A2M2]
941	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.46	3.286 (J)	[A2M2]
942	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.72	3.289 (J)	[A2M2]
943	31.00	93.00	21.00	20.08	75.06	51.93	94.67	329.34	3.290 (J)	[PC]
944	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.29	3.291 (J)	[A2M2]
945	46.00	103.00	27.00	28.86	82.14	72.79	106.37	606.96	3.292 (J)	[PC]
946	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	3.292 (J)	[PC]
947	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.40	3.293 (J)	[A2M2]
948	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.96	3.293 (J)	[A2M2]
949	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.59	3.294 (J)	[A2M2]
950	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.71	3.294 (J)	[A2M2]
951	46.00	108.00	27.00	33.13	84.26	72.95	106.41	397.74	3.295 (J)	[PC]

952	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.64	3.296 (J)	[A2M2]
953	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	3.297 (J)	[A2M2]
954	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.69	3.298 (J)	[PC]
955	51.00	118.00	30.00	42.39	89.26	79.36	108.21	265.92	3.301 (J)	[PC]
956	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	3.302 (J)	[PC]
957	51.00	98.00	30.00	26.49	80.70	79.21	108.20	1181.96	3.303 (J)	[PC]
958	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	3.304 (J)	[PC]
959	31.00	88.00	6.00	29.15	82.29	36.67	86.02	9.85	3.306 (J)	[PC]
960	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.22	3.313 (J)	[PC]
961	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.91	3.314 (J)	[PC]
962	51.00	103.00	27.00	32.06	83.76	77.57	107.80	724.91	3.315 (J)	[PC]
963	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.66	3.319 (J)	[PC]
964	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	3.320 (J)	[A2M2]
965	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.96	3.325 (J)	[A2M2]
966	56.00	103.00	30.00	32.72	84.07	85.41	108.94	1066.69	3.326 (J)	[PC]
967	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	3.328 (J)	[A2M2]
968	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	3.329 (J)	[A2M2]
969	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.71	3.329 (J)	[A2M2]
970	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	3.330 (J)	[PC]
971	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.14	3.333 (J)	[A2M2]
972	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.40	3.334 (J)	[A2M2]
973	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.46	3.335 (J)	[A2M2]
974	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	3.336 (J)	[PC]
975	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	3.338 (J)	[PC]
976	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	3.339 (J)	[PC]
977	46.00	103.00	18.00	38.13	86.81	63.92	101.30	163.18	3.341 (J)	[PC]
978	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	3.341 (J)	[PC]
979	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.91	3.342 (J)	[PC]
980	51.00	113.00	27.00	40.46	88.14	77.49	107.76	309.86	3.343 (J)	[PC]
981	36.00	88.00	6.00	31.85	83.67	41.92	88.99	32.72	3.343 (J)	[PC]
982	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	3.343 (J)	[A2M2]
983	56.00	113.00	15.00	58.12	98.15	66.92	102.71	6.63	3.350 (J)	[PC]
984	41.00	103.00	21.00	32.31	83.88	61.82	100.24	196.22	3.356 (J)	[PC]
985	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.60	3.358 (J)	[PC]
986	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.92	3.359 (J)	[A2M2]
987	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.44	3.360 (J)	[PC]
988	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.94	3.361 (J)	[PC]
989	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.75	3.361 (J)	[PC]
990	36.00	103.00	24.00	26.70	80.87	59.69	99.13	234.66	3.362 (J)	[PC]
991	51.00	108.00	27.00	35.90	85.62	78.00	107.98	505.01	3.363 (J)	[PC]
992	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.14	3.363 (J)	[A2M2]
993	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	3.364 (J)	[A2M2]
994	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	3.373 (J)	[A2M2]
995	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	3.375 (J)	[PC]
996	51.00	108.00	24.00	38.95	87.25	74.97	106.74	346.91	3.375 (J)	[PC]
997	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	3.375 (J)	[A2M2]
998	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	3.376 (J)	[A2M2]
999	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.95	3.377 (J)	[A2M2]
1000	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	3.378 (J)	[A2M2]
1001	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.73	3.379 (J)	[PC]
1002	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	3.380 (J)	[A2M2]

1003	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.40	3.381 (J)	[A2M2]
1004	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.40	3.382 (J)	[A2M2]
1005	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.86	3.386 (J)	[PC]
1006	41.00	93.00	24.00	22.97	77.16	63.58	101.13	703.60	3.386 (J)	[PC]
1007	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	3.387 (J)	[A2M2]
1008	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	3.390 (J)	[A2M2]
1009	26.00	93.00	12.00	26.89	81.03	35.11	85.19	6.47	3.392 (J)	[PC]
1010	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.27	3.393 (J)	[PC]
1011	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.95	3.394 (J)	[A2M2]
1012	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	3.398 (J)	[PC]
1013	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.17	3.398 (J)	[PC]
1014	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	3.400 (J)	[A2M2]
1015	51.00	98.00	27.00	29.07	82.25	76.36	107.27	940.44	3.401 (J)	[PC]
1016	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.88	3.402 (J)	[A2M2]
1017	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.66	3.403 (J)	[PC]
1018	56.00	103.00	27.00	35.52	85.41	82.47	108.34	841.86	3.403 (J)	[PC]
1019	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.63	3.404 (J)	[PC]
1020	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	3.404 (J)	[A2M2]
1021	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.47	3.404 (J)	[A2M2]
1022	46.00	98.00	24.00	28.27	81.83	69.22	104.08	622.17	3.405 (J)	[PC]
1023	31.00	88.00	21.00	15.34	74.01	51.05	94.23	491.66	3.406 (J)	[PC]
1024	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.57	3.406 (J)	[PC]
1025	46.00	118.00	24.00	52.25	94.83	62.53	100.60	5.87	3.406 (J)	[PC]
1026	66.00	108.00	6.00	65.46	102.02	71.45	105.48	4.29	3.407 (J)	[PC]
1027	46.00	108.00	24.00	36.53	85.95	69.72	104.33	250.94	3.407 (J)	[PC]
1028	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.92	3.409 (J)	[A2M2]
1029	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.88	3.411 (J)	[A2M2]
1030	56.00	113.00	30.00	39.80	87.75	85.74	109.05	574.27	3.412 (J)	[PC]
1031	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.68	3.412 (J)	[A2M2]
1032	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.47	3.415 (J)	[PC]
1033	26.00	93.00	24.00	10.52	74.66	49.99	93.70	379.73	3.415 (J)	[PC]
1034	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.72	3.418 (J)	[A2M2]
1035	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.73	3.422 (J)	[PC]
1036	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.68	3.424 (J)	[A2M2]
1037	36.00	88.00	24.00	16.45	74.08	57.83	97.97	771.98	3.425 (J)	[PC]
1038	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.14	3.426 (J)	[PC]
1039	56.00	108.00	30.00	35.98	85.66	85.98	109.13	813.73	3.426 (J)	[PC]
1040	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.49	3.426 (J)	[A2M2]
1041	46.00	93.00	30.00	21.33	75.93	72.85	106.38	1265.75	3.430 (J)	[PC]
1042	41.00	98.00	24.00	25.38	79.78	64.72	101.68	516.98	3.431 (J)	[PC]
1043	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	3.431 (J)	[A2M2]
1044	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	3.433 (J)	[A2M2]
1045	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.72	3.437 (J)	[A2M2]
1046	36.00	98.00	21.00	25.46	79.84	56.99	97.45	265.63	3.440 (J)	[PC]
1047	51.00	108.00	21.00	41.99	89.03	71.89	105.85	212.48	3.441 (J)	[PC]
1048	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	3.441 (J)	[PC]
1049	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	3.441 (J)	[PC]
1050	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.47	3.441 (J)	[A2M2]
1051	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.95	3.443 (J)	[A2M2]
1052	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.05	3.443 (J)	[PC]
1053	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.09	3.446 (J)	[PC]

1054	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.61	3.446 (J)	[A2M2]
1055	41.00	98.00	24.00	25.38	79.78	64.72	101.68	516.98	3.448 (J)	[PC]
1056	56.00	113.00	27.00	42.73	89.49	82.59	108.34	407.08	3.448 (J)	[PC]
1057	71.00	108.00	6.00	67.61	103.05	76.98	107.54	25.19	3.450 (J)	[PC]
1058	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	3.452 (J)	[PC]
1059	56.00	103.00	6.00	56.24	97.00	61.13	99.89	2.92	3.453 (J)	[PC]
1060	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	3.454 (J)	[A2M2]
1061	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.95	3.457 (J)	[A2M2]
1062	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.37	3.459 (J)	[A2M2]
1063	56.00	108.00	27.00	38.82	87.17	83.00	108.35	617.09	3.459 (J)	[PC]
1064	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.37	3.460 (J)	[A2M2]
1065	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	3.462 (J)	[PC]
1066	36.00	88.00	27.00	12.72	74.32	60.42	99.52	990.57	3.462 (J)	[PC]
1067	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.82	3.463 (J)	[PC]
1068	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.34	3.463 (J)	[A2M2]
1069	41.00	108.00	27.00	30.62	83.07	67.54	103.01	292.47	3.464 (J)	[PC]
1070	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.49	3.465 (J)	[A2M2]
1071	71.00	113.00	9.00	69.36	104.15	78.60	108.18	12.90	3.466 (J)	[PC]
1072	56.00	118.00	27.00	47.47	92.38	81.19	108.29	222.14	3.469 (J)	[PC]
1073	36.00	88.00	24.00	16.45	74.08	57.83	97.97	771.98	3.470 (J)	[PC]
1074	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.72	3.471 (J)	[PC]
1075	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.73	3.473 (J)	[A2M2]
1076	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.28	3.474 (J)	[PC]
1077	56.00	113.00	24.00	45.60	91.37	79.52	108.22	264.12	3.477 (J)	[PC]
1078	56.00	113.00	27.00	42.73	89.49	82.59	108.34	407.08	3.479 (J)	[PC]
1079	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1143.02	3.479 (J)	[A2M2]
1080	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.33	3.481 (J)	[PC]
1081	56.00	103.00	24.00	38.23	86.86	79.43	108.21	641.28	3.481 (J)	[PC]
1082	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.61	3.482 (J)	[A2M2]
1083	46.00	103.00	24.00	31.81	83.65	69.96	104.44	429.32	3.483 (J)	[PC]
1084	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	3.483 (J)	[PC]
1085	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.34	3.483 (J)	[A2M2]
1086	71.00	118.00	15.00	68.08	103.29	82.47	108.34	33.94	3.484 (J)	[PC]
1087	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.20	3.485 (J)	[PC]
1088	41.00	103.00	24.00	29.00	82.22	64.97	101.80	329.05	3.485 (J)	[PC]
1089	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.34	3.486 (J)	[A2M2]
1090	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.73	3.491 (J)	[A2M2]
1091	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.81	3.494 (J)	[PC]
1092	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	3.494 (J)	[PC]
1093	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.32	3.497 (J)	[PC]
1094	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	3.502 (J)	[A2M2]
1095	26.00	88.00	18.00	14.66	74.02	43.86	90.24	256.82	3.502 (J)	[PC]
1096	66.00	133.00	30.00	67.60	103.04	83.11	108.35	27.07	3.503 (J)	[PC]
1097	56.00	108.00	18.00	47.25	92.27	73.95	106.60	176.81	3.505 (J)	[PC]
1098	61.00	108.00	30.00	39.19	87.40	90.93	110.09	929.81	3.505 (J)	[PC]
1099	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.10	3.506 (J)	[PC]
1100	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	3.507 (J)	[PC]
1101	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.55	3.508 (J)	[A2M2]
1102	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.97	3.508 (J)	[PC]
1103	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	3.508 (J)	[A2M2]
1104	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	3.509 (J)	[PC]

1105	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1143.02	3.510 (J)	[A2M2]
1106	71.00	123.00	21.00	66.46	102.50	87.11	109.53	62.32	3.512 (J)	[PC]
1107	46.00	93.00	6.00	41.67	88.85	51.78	94.60	40.15	3.515 (J)	[PC]
1108	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.77	3.515 (J)	[A2M2]
1109	56.00	113.00	24.00	45.60	91.37	79.52	108.22	264.12	3.519 (J)	[PC]
1110	61.00	103.00	30.00	36.37	85.87	90.15	110.09	1186.33	3.523 (J)	[PC]
1111	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.82	3.525 (J)	[A2M2]
1112	51.00	103.00	24.00	34.98	85.13	74.71	106.70	536.21	3.525 (J)	[PC]
1113	36.00	93.00	21.00	22.57	76.86	56.58	97.19	427.97	3.526 (J)	[PC]
1114	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.34	3.527 (J)	[A2M2]
1115	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.10	3.528 (J)	[A2M2]
1116	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	3.528 (J)	[A2M2]
1117	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.65	3.528 (J)	[PC]
1118	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	3.530 (J)	[A2M2]
1119	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.64	3.531 (J)	[PC]
1120	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	3.531 (J)	[PC]
1121	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.76	3.532 (J)	[PC]
1122	56.00	98.00	30.00	30.13	82.81	84.14	108.39	1312.72	3.533 (J)	[PC]
1123	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	3.533 (J)	[PC]
1124	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.82	3.534 (J)	[A2M2]
1125	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.27	3.539 (J)	[PC]
1126	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	3.542 (J)	[PC]
1127	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.79	3.546 (J)	[PC]
1128	46.00	93.00	27.00	23.62	77.90	70.36	104.64	1025.20	3.547 (J)	[PC]
1129	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.11	3.547 (J)	[A2M2]
1130	66.00	118.00	21.00	58.49	98.39	84.85	108.74	137.64	3.550 (J)	[PC]
1131	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.93	3.551 (J)	[A2M2]
1132	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.67	3.551 (J)	[PC]
1133	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.55	3.552 (J)	[A2M2]
1134	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.28	3.552 (J)	[PC]
1135	56.00	108.00	24.00	41.60	88.80	80.00	108.24	443.65	3.555 (J)	[PC]
1136	21.00	98.00	27.00	6.37	75.31	47.40	92.35	249.10	3.555 (J)	[PC]
1137	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.10	3.555 (J)	[A2M2]
1138	61.00	113.00	30.00	42.53	89.36	90.86	110.09	679.67	3.560 (J)	[PC]
1139	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.27	3.561 (J)	[PC]
1140	51.00	98.00	24.00	31.78	83.63	73.43	106.55	723.76	3.563 (J)	[PC]
1141	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.77	3.565 (J)	[A2M2]
1142	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.44	3.565 (J)	[A2M2]
1143	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	3.565 (J)	[PC]
1144	61.00	108.00	15.00	53.09	95.26	75.97	107.10	141.58	3.569 (J)	[PC]
1145	46.00	93.00	3.00	44.30	90.53	48.99	93.21	6.78	3.569 (J)	[PC]
1146	51.00	103.00	21.00	37.83	86.65	71.81	105.79	372.93	3.570 (J)	[PC]
1147	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.42	3.571 (J)	[PC]
1148	36.00	93.00	15.00	26.92	81.06	50.95	94.18	171.27	3.572 (J)	[PC]
1149	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	3.575 (J)	[PC]
1150	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.44	3.578 (J)	[A2M2]
1151	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	3.578 (J)	[A2M2]
1152	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.44	3.580 (J)	[PC]
1153	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.22	3.581 (J)	[A2M2]
1154	61.00	103.00	27.00	39.03	87.30	87.19	109.56	950.79	3.582 (J)	[PC]
1155	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.30	3.583 (J)	[PC]

1156	56.00	98.00	3.00	54.00	95.76	58.93	98.66	8.43	3.588 (J)	[PC]
1157	31.00	88.00	12.00	23.95	78.29	42.89	89.60	123.27	3.589 (J)	[PC]
1158	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	3.589 (J)	[A2M2]
1159	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.11	3.590 (J)	[A2M2]
1160	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.49	3.590 (J)	[A2M2]
1161	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.50	3.591 (J)	[PC]
1162	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	3.591 (J)	[A2M2]
1163	56.00	118.00	30.00	44.16	90.44	84.47	108.53	358.28	3.592 (J)	[PC]
1164	41.00	93.00	21.00	24.97	79.43	60.88	99.76	522.44	3.594 (J)	[PC]
1165	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.51	3.597 (J)	[PC]
1166	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.93	3.600 (J)	[A2M2]
1167	36.00	88.00	21.00	19.63	74.84	55.23	96.44	584.42	3.605 (J)	[PC]
1168	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.78	3.606 (J)	[PC]
1169	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.25	3.608 (J)	[PC]
1170	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.85	3.609 (J)	[A2M2]
1171	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.85	3.609 (J)	[A2M2]
1172	56.00	108.00	21.00	44.32	90.55	77.00	107.55	297.15	3.613 (J)	[PC]
1173	31.00	88.00	18.00	19.04	74.55	48.33	92.86	340.51	3.616 (J)	[PC]
1174	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.22	3.617 (J)	[A2M2]
1175	26.00	98.00	30.00	6.38	75.30	55.98	96.86	524.30	3.622 (J)	[PC]
1176	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.49	3.623 (J)	[A2M2]
1177	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.25	3.624 (J)	[PC]
1178	41.00	98.00	21.00	27.86	81.62	61.88	100.27	355.50	3.624 (J)	[PC]
1179	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	3.625 (J)	[A2M2]
1180	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.71	3.626 (J)	[A2M2]
1181	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	3.627 (J)	[A2M2]
1182	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	3.627 (J)	[A2M2]
1183	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	3.629 (J)	[A2M2]
1184	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.57	3.635 (J)	[A2M2]
1185	61.00	103.00	24.00	41.63	88.82	84.37	108.48	743.05	3.636 (J)	[PC]
1186	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.96	3.637 (J)	[A2M2]
1187	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	3.644 (J)	[A2M2]
1188	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.30	3.646 (J)	[PC]
1189	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.93	3.650 (J)	[A2M2]
1190	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	3.652 (J)	[A2M2]
1191	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.42	3.653 (J)	[PC]
1192	46.00	103.00	21.00	34.97	85.13	67.00	102.75	281.78	3.654 (J)	[PC]
1193	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.94	3.655 (J)	[PC]
1194	61.00	108.00	27.00	41.86	88.96	87.94	109.79	719.42	3.655 (J)	[PC]
1195	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	3.657 (J)	[A2M2]
1196	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	3.658 (J)	[PC]
1197	31.00	93.00	30.00	6.83	75.23	60.30	99.46	892.94	3.658 (J)	[PC]
1198	61.00	103.00	24.00	41.63	88.82	84.37	108.48	743.05	3.662 (J)	[PC]
1199	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	3.664 (J)	[PC]
1200	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.96	3.665 (J)	[A2M2]
1201	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.87	3.665 (J)	[A2M2]
1202	56.00	98.00	27.00	32.84	84.13	80.97	108.28	1056.25	3.666 (J)	[PC]
1203	56.00	103.00	21.00	40.91	88.40	76.54	107.35	466.81	3.668 (J)	[PC]
1204	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.36	3.669 (J)	[PC]
1205	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.71	3.675 (J)	[A2M2]
1206	36.00	93.00	18.00	24.60	79.07	53.80	95.65	287.30	3.676 (J)	[PC]

1207	46.00	93.00	24.00	25.77	80.09	67.76	103.12	806.25	3.679 (J)	[PC]
1208	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.74	3.680 (J)	[PC]
1209	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.96	3.685 (J)	[A2M2]
1210	46.00	98.00	21.00	31.02	83.28	66.51	102.52	448.36	3.686 (J)	[PC]
1211	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.87	3.686 (J)	[A2M2]
1212	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.57	3.688 (J)	[A2M2]
1213	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.06	3.688 (J)	[A2M2]
1214	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.47	3.689 (J)	[A2M2]
1215	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.78	3.690 (J)	[PC]
1216	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.78	3.692 (J)	[A2M2]
1217	31.00	88.00	15.00	21.72	76.22	45.62	91.37	218.92	3.695 (J)	[PC]
1218	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.93	3.695 (J)	[A2M2]
1219	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.08	3.697 (J)	[PC]
1220	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.36	3.698 (J)	[PC]
1221	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.10	3.703 (J)	[PC]
1222	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.08	3.706 (J)	[A2M2]
1223	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.50	3.708 (J)	[PC]
1224	61.00	118.00	30.00	46.39	91.80	89.94	110.09	449.74	3.708 (J)	[PC]
1225	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.47	3.709 (J)	[A2M2]
1226	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.96	3.715 (J)	[A2M2]
1227	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	3.715 (J)	[PC]
1228	66.00	108.00	30.00	42.51	89.34	95.83	111.19	1037.78	3.717 (J)	[PC]
1229	61.00	113.00	27.00	45.19	91.12	87.81	109.77	497.36	3.721 (J)	[PC]
1230	61.00	113.00	21.00	51.32	94.36	81.47	108.30	217.99	3.724 (J)	[PC]
1231	66.00	108.00	12.00	58.67	98.50	78.00	107.98	108.08	3.724 (J)	[PC]
1232	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.77	3.727 (J)	[A2M2]
1233	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.78	3.728 (J)	[A2M2]
1234	51.00	98.00	21.00	34.56	84.93	70.81	104.96	538.81	3.729 (J)	[PC]
1235	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.47	3.733 (J)	[A2M2]
1236	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.43	3.737 (J)	[A2M2]
1237	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.06	3.743 (J)	[A2M2]
1238	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.47	3.743 (J)	[A2M2]
1239	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.08	3.744 (J)	[A2M2]
1240	46.00	98.00	15.00	36.84	86.12	60.90	99.77	183.50	3.750 (J)	[PC]
1241	61.00	118.00	24.00	53.18	95.31	82.97	108.35	179.10	3.750 (J)	[PC]
1242	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.45	3.750 (J)	[PC]
1243	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	3.751 (J)	[PC]
1244	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.72	3.753 (J)	[A2M2]
1245	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.44	3.754 (J)	[A2M2]
1246	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.21	3.754 (J)	[A2M2]
1247	31.00	88.00	24.00	11.11	74.57	53.76	95.63	675.45	3.755 (J)	[PC]
1248	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.20	3.756 (J)	[A2M2]
1249	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.33	3.764 (J)	[A2M2]
1250	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.20	3.764 (J)	[A2M2]
1251	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.43	3.766 (J)	[A2M2]
1252	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.43	3.766 (J)	[PC]
1253	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	3.767 (J)	[PC]
1254	61.00	113.00	21.00	51.32	94.36	81.47	108.30	217.99	3.769 (J)	[PC]
1255	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.99	3.778 (J)	[PC]
1256	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.72	3.780 (J)	[A2M2]
1257	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.77	3.786 (J)	[A2M2]

1258	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.21	3.797 (J)	[A2M2]
1259	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.33	3.798 (J)	[A2M2]
1260	51.00	103.00	18.00	40.67	88.26	68.97	103.96	238.80	3.799 (J)	[PC]
1261	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	3.800 (J)	[PC]
1262	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.37	3.803 (J)	[A2M2]
1263	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.71	3.805 (J)	[A2M2]
1264	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.56	3.807 (J)	[A2M2]
1265	71.00	133.00	30.00	67.87	103.16	90.37	110.09	58.59	3.815 (J)	[PC]
1266	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.44	3.816 (J)	[A2M2]
1267	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.27	3.818 (J)	[PC]
1268	41.00	98.00	18.00	30.80	83.17	58.99	98.69	222.43	3.818 (J)	[PC]
1269	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.80	3.820 (J)	[PC]
1270	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.58	3.821 (J)	[PC]
1271	56.00	98.00	24.00	35.56	85.43	77.85	107.92	826.05	3.821 (J)	[PC]
1272	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	3.822 (J)	[PC]
1273	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.22	3.822 (J)	[PC]
1274	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.56	3.827 (J)	[A2M2]
1275	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.71	3.829 (J)	[A2M2]
1276	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.26	3.832 (J)	[A2M2]
1277	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.47	3.833 (J)	[PC]
1278	61.00	103.00	21.00	44.17	90.44	81.32	108.29	557.58	3.834 (J)	[PC]
1279	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.85	3.834 (J)	[PC]
1280	66.00	103.00	30.00	40.07	87.91	95.06	110.47	1301.99	3.836 (J)	[PC]
1281	36.00	88.00	18.00	22.13	76.53	52.59	94.99	424.27	3.838 (J)	[PC]
1282	61.00	108.00	24.00	44.44	90.62	84.99	108.79	538.80	3.839 (J)	[PC]
1283	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.37	3.841 (J)	[A2M2]
1284	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.841 (J)	[PC]
1285	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.34	3.842 (J)	[A2M2]
1286	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.34	3.844 (J)	[A2M2]
1287	66.00	108.00	27.00	45.02	91.01	92.91	110.21	821.47	3.847 (J)	[PC]
1288	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	3.851 (J)	[A2M2]
1289	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.75	3.852 (J)	[A2M2]
1290	61.00	108.00	21.00	47.15	92.21	82.00	108.32	381.11	3.853 (J)	[PC]
1291	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.10	3.854 (J)	[PC]
1292	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	3.855 (J)	[A2M2]
1293	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.63	3.862 (J)	[PC]
1294	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.75	3.862 (J)	[A2M2]
1295	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.10	3.868 (J)	[A2M2]
1296	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.32	3.870 (J)	[PC]
1297	66.00	128.00	24.00	69.61	104.27	79.59	108.22	8.41	3.870 (J)	[PC]
1298	66.00	103.00	27.00	42.65	89.44	92.04	110.12	1057.22	3.877 (J)	[PC]
1299	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.26	3.878 (J)	[A2M2]
1300	46.00	93.00	21.00	28.23	81.81	65.05	101.83	609.85	3.878 (J)	[PC]
1301	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.83	3.882 (J)	[A2M2]
1302	61.00	108.00	21.00	47.15	92.21	82.00	108.32	381.11	3.884 (J)	[PC]
1303	56.00	98.00	6.00	51.25	94.33	61.61	100.13	44.32	3.884 (J)	[PC]
1304	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.20	3.892 (J)	[PC]
1305	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.19	3.893 (J)	[PC]
1306	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.36	3.893 (J)	[PC]
1307	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	3.895 (J)	[A2M2]
1308	66.00	113.00	30.00	45.36	91.23	95.95	111.27	778.19	3.895 (J)	[PC]

1309	61.00	108.00	18.00	50.04	93.72	79.00	108.19	248.10	3.897 (J)	[PC]
1310	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.83	3.900 (J)	[A2M2]
1311	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.30	3.902 (J)	[PC]
1312	61.00	113.00	24.00	48.13	92.75	84.59	108.60	345.63	3.903 (J)	[PC]
1313	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.77	3.907 (J)	[PC]
1314	66.00	118.00	30.00	49.06	93.24	95.04	110.47	538.20	3.909 (J)	[PC]
1315	41.00	93.00	18.00	27.30	81.32	58.23	98.22	366.30	3.911 (J)	[PC]
1316	36.00	88.00	3.00	35.04	85.16	38.90	87.22	2.84	3.918 (J)	[PC]
1317	66.00	113.00	27.00	48.14	92.75	92.85	110.20	589.77	3.919 (J)	[PC]
1318	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	3.920 (J)	[PC]
1319	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.26	3.923 (J)	[A2M2]
1320	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.06	3.924 (J)	[A2M2]
1321	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.10	3.925 (J)	[A2M2]
1322	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.26	3.926 (J)	[A2M2]
1323	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	3.927 (J)	[PC]
1324	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.61	3.928 (J)	[PC]
1325	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.73	3.935 (J)	[PC]
1326	51.00	98.00	18.00	37.28	86.35	68.18	103.37	381.61	3.936 (J)	[PC]
1327	71.00	108.00	30.00	45.92	91.54	100.35	114.23	1145.36	3.937 (J)	[PC]
1328	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.12	3.943 (J)	[PC]
1329	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.06	3.949 (J)	[A2M2]
1330	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.63	3.955 (J)	[PC]
1331	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1244.04	3.956 (J)	[PC]
1332	56.00	103.00	18.00	43.53	90.02	73.64	106.57	318.38	3.960 (J)	[PC]
1333	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.91	3.963 (J)	[PC]
1334	71.00	113.00	30.00	48.63	93.01	100.95	114.64	880.63	3.964 (J)	[PC]
1335	56.00	98.00	21.00	38.21	86.85	75.09	106.76	628.91	3.966 (J)	[PC]
1336	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	3.968 (J)	[A2M2]
1337	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.50	3.971 (J)	[PC]
1338	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.49	3.971 (J)	[PC]
1339	66.00	108.00	24.00	47.68	92.50	89.91	110.09	626.50	3.971 (J)	[PC]
1340	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.70	3.972 (J)	[PC]
1341	46.00	98.00	18.00	33.93	84.64	63.71	101.20	301.73	3.978 (J)	[PC]
1342	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.05	3.980 (J)	[A2M2]
1343	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.05	3.983 (J)	[A2M2]
1344	61.00	118.00	27.00	49.62	93.52	86.57	109.34	300.12	3.994 (J)	[PC]
1345	76.00	113.00	30.00	52.16	94.79	105.71	117.13	992.49	3.994 (J)	[PC]
1346	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.05	4.004 (J)	[A2M2]
1347	36.00	88.00	30.00	9.01	74.89	63.09	100.88	1244.04	4.008 (J)	[PC]
1348	56.00	103.00	15.00	46.17	91.67	70.87	105.00	195.91	4.009 (J)	[PC]
1349	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.62	4.015 (J)	[PC]
1350	61.00	103.00	18.00	46.76	92.00	78.26	108.10	395.62	4.016 (J)	[PC]
1351	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.44	4.018 (J)	[A2M2]
1352	66.00	103.00	24.00	45.16	91.10	88.97	109.94	834.70	4.020 (J)	[PC]
1353	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	4.023 (J)	[A2M2]
1354	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	4.026 (J)	[A2M2]
1355	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.17	4.026 (J)	[PC]
1356	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.05	4.032 (J)	[A2M2]
1357	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	4.035 (J)	[A2M2]
1358	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.30	4.045 (J)	[PC]
1359	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	4.055 (J)	[A2M2]

1360	71.00	113.00	18.00	59.60	99.07	88.73	109.91	228.01	4.058 (J)	[A2M2]
1361	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	4.060 (J)	[A2M2]
1362	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.43	4.065 (J)	[PC]
1363	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	4.068 (J)	[A2M2]
1364	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.27	4.071 (J)	[A2M2]
1365	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.96	4.072 (J)	[PC]
1366	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.44	4.073 (J)	[A2M2]
1367	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.59	4.076 (J)	[PC]
1368	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.72	4.076 (J)	[PC]
1369	71.00	108.00	27.00	48.56	92.98	97.64	112.41	914.30	4.080 (J)	[PC]
1370	86.00	118.00	30.00	61.82	100.24	115.33	124.32	947.96	4.088 (J)	[PC]
1371	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.45	4.092 (J)	[A2M2]
1372	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.29	4.093 (J)	[PC]
1373	66.00	113.00	24.00	51.05	94.23	89.82	110.07	425.43	4.093 (J)	[PC]
1374	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.64	4.101 (J)	[PC]
1375	16.00	103.00	30.00	3.32	75.81	42.81	89.54	117.17	4.104 (J)	[PC]
1376	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.46	4.108 (J)	[PC]
1377	71.00	113.00	18.00	59.60	99.07	88.73	109.91	228.01	4.109 (J)	[A2M2]
1378	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.27	4.111 (J)	[A2M2]
1379	66.00	118.00	27.00	52.19	94.80	91.82	110.10	378.72	4.112 (J)	[PC]
1380	86.00	123.00	30.00	64.84	101.73	115.93	124.98	687.29	4.114 (J)	[PC]
1381	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.40	4.116 (J)	[PC]
1382	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.96	4.116 (J)	[PC]
1383	26.00	93.00	27.00	5.48	75.45	52.91	95.16	564.59	4.117 (J)	[PC]
1384	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.71	4.118 (J)	[PC]
1385	31.00	88.00	27.00	7.25	75.17	56.42	97.10	892.64	4.120 (J)	[PC]
1386	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	4.122 (J)	[PC]
1387	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.88	4.145 (J)	[A2M2]
1388	46.00	93.00	18.00	30.89	83.22	62.36	100.51	440.82	4.150 (J)	[PC]
1389	66.00	103.00	21.00	47.78	92.56	86.07	109.17	639.96	4.156 (J)	[PC]
1390	86.00	113.00	21.00	67.53	103.01	106.55	117.35	549.00	4.158 (J)	[A2M2]
1391	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.71	4.160 (J)	[A2M2]
1392	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	4.160 (J)	[PC]
1393	81.00	118.00	30.00	58.37	98.31	110.91	120.31	835.48	4.162 (J)	[PC]
1394	26.00	88.00	21.00	9.67	74.79	46.63	91.93	403.71	4.162 (J)	[PC]
1395	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.14	4.166 (J)	[PC]
1396	41.00	93.00	12.00	32.89	84.15	52.81	95.11	134.40	4.167 (J)	[PC]
1397	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.45	4.168 (J)	[A2M2]
1398	86.00	113.00	21.00	67.53	103.01	106.55	117.35	549.00	4.168 (J)	[A2M2]
1399	61.00	123.00	30.00	51.61	94.51	87.93	109.79	249.46	4.169 (J)	[PC]
1400	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.71	4.169 (J)	[A2M2]
1401	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	4.170 (J)	[A2M2]
1402	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.28	4.170 (J)	[A2M2]
1403	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.90	4.174 (J)	[A2M2]
1404	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	4.179 (J)	[PC]
1405	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	4.185 (J)	[A2M2]
1406	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.03	4.186 (J)	[A2M2]
1407	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.22	4.188 (J)	[A2M2]
1408	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	4.197 (J)	[A2M2]
1409	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.92	4.199 (J)	[PC]
1410	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.88	4.199 (J)	[A2M2]

1411	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	4.199 (J)	[A2M2]
1412	81.00	113.00	30.00	55.78	96.75	110.20	119.90	1100.14	4.204 (J)	[PC]
1413	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	4.205 (J)	[PC]
1414	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	4.206 (J)	[A2M2]
1415	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	4.206 (J)	[A2M2]
1416	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	4.216 (J)	[PC]
1417	56.00	98.00	18.00	40.81	88.34	72.11	106.03	453.77	4.219 (J)	[PC]
1418	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.55	4.220 (J)	[A2M2]
1419	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	4.220 (J)	[PC]
1420	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.95	4.222 (J)	[PC]
1421	71.00	128.00	24.00	69.19	104.07	85.72	109.05	29.96	4.222 (J)	[PC]
1422	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	4.224 (J)	[PC]
1423	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.40	4.226 (J)	[PC]
1424	36.00	88.00	15.00	24.26	78.67	49.89	93.65	288.40	4.228 (J)	[PC]
1425	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.03	4.229 (J)	[A2M2]
1426	46.00	93.00	9.00	39.03	87.30	54.48	96.03	99.94	4.233 (J)	[PC]
1427	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.87	4.236 (J)	[A2M2]
1428	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.90	4.237 (J)	[A2M2]
1429	76.00	118.00	15.00	69.77	104.35	88.62	109.89	59.84	4.238 (J)	[PC]
1430	71.00	118.00	30.00	52.06	94.73	100.80	114.54	628.95	4.242 (J)	[PC]
1431	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.22	4.250 (J)	[A2M2]
1432	51.00	98.00	15.00	39.96	87.85	65.45	102.02	250.78	4.250 (J)	[PC]
1433	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.28	4.252 (J)	[A2M2]
1434	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.88	4.253 (J)	[PC]
1435	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	4.255 (J)	[PC]
1436	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.47	4.255 (J)	[PC]
1437	76.00	108.00	30.00	49.70	93.56	104.66	116.86	1250.92	4.261 (J)	[PC]
1438	76.00	113.00	27.00	54.84	96.23	102.84	115.92	769.88	4.264 (J)	[PC]
1439	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.68	4.265 (J)	[PC]
1440	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.72	4.273 (J)	[PC]
1441	76.00	118.00	30.00	55.17	96.41	105.99	117.20	730.68	4.280 (J)	[PC]
1442	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.49	4.283 (J)	[PC]
1443	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.55	4.284 (J)	[A2M2]
1444	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	4.289 (J)	[PC]
1445	76.00	128.00	24.00	70.40	104.66	92.01	110.12	57.62	4.291 (J)	[PC]
1446	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.87	4.295 (J)	[A2M2]
1447	66.00	108.00	21.00	50.43	93.91	86.95	109.47	457.72	4.296 (J)	[PC]
1448	66.00	123.00	30.00	53.74	95.62	93.15	110.23	324.47	4.301 (J)	[PC]
1449	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.95	4.304 (J)	[PC]
1450	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.61	4.308 (J)	[PC]
1451	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.95	4.315 (J)	[A2M2]
1452	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.51	4.316 (J)	[A2M2]
1453	71.00	123.00	18.00	70.87	105.00	81.38	108.29	11.87	4.317 (J)	[PC]
1454	71.00	108.00	24.00	51.27	94.34	94.88	110.45	710.95	4.321 (J)	[PC]
1455	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.37	4.324 (J)	[PC]
1456	86.00	118.00	27.00	64.55	101.60	112.76	121.58	724.37	4.325 (J)	[PC]
1457	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.34	4.329 (J)	[PC]
1458	51.00	98.00	12.00	42.62	89.41	62.70	100.68	146.49	4.331 (J)	[PC]
1459	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.73	4.341 (J)	[PC]
1460	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	4.344 (J)	[A2M2]
1461	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	4.348 (J)	[A2M2]

1462	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1143.02	4.349 (J)	[PC]
1463	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	4.352 (J)	[A2M2]
1464	41.00	93.00	15.00	30.04	82.76	55.56	96.63	236.61	4.352 (J)	[PC]
1465	66.00	103.00	18.00	50.45	93.93	83.18	108.36	471.34	4.354 (J)	[PC]
1466	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.34	4.358 (J)	[PC]
1467	26.00	93.00	30.00	1.17	76.17	55.77	96.74	783.73	4.363 (J)	[PC]
1468	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	4.378 (J)	[PC]
1469	71.00	108.00	12.00	61.84	100.25	82.99	108.35	153.00	4.381 (J)	[A2M2]
1470	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.55	4.385 (J)	[PC]
1471	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	4.386 (J)	[PC]
1472	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.51	4.388 (J)	[A2M2]
1473	31.00	88.00	30.00	3.61	75.76	59.02	98.71	1143.02	4.388 (J)	[PC]
1474	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.77	4.394 (J)	[PC]
1475	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	4.400 (J)	[A2M2]
1476	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.82	4.406 (J)	[PC]
1477	66.00	113.00	21.00	54.00	95.76	86.69	109.38	285.34	4.409 (J)	[PC]
1478	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.10	4.409 (J)	[PC]
1479	61.00	103.00	15.00	49.45	93.43	75.48	106.90	262.45	4.410 (J)	[PC]
1480	81.00	113.00	27.00	58.35	98.30	107.47	118.30	865.91	4.412 (J)	[PC]
1481	71.00	113.00	27.00	51.42	94.41	98.00	112.65	673.82	4.417 (J)	[PC]
1482	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	4.418 (J)	[A2M2]
1483	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.95	4.419 (J)	[A2M2]
1484	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.11	4.434 (J)	[PC]
1485	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.39	4.438 (J)	[A2M2]
1486	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.93	4.438 (J)	[PC]
1487	71.00	108.00	12.00	61.84	100.25	82.99	108.35	153.00	4.439 (J)	[A2M2]
1488	76.00	108.00	27.00	52.39	94.90	101.98	115.34	1005.55	4.440 (J)	[PC]
1489	81.00	123.00	30.00	61.59	100.12	110.88	120.29	581.10	4.444 (J)	[PC]
1490	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	4.452 (J)	[A2M2]
1491	66.00	113.00	18.00	56.97	97.43	83.39	108.36	173.77	4.456 (J)	[PC]
1492	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.44	4.456 (J)	[PC]
1493	71.00	113.00	24.00	54.19	95.87	94.86	110.44	500.44	4.473 (J)	[PC]
1494	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	4.473 (J)	[PC]
1495	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.39	4.473 (J)	[A2M2]
1496	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.28	4.474 (J)	[A2M2]
1497	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.22	4.476 (J)	[PC]
1498	66.00	103.00	3.00	63.63	101.16	68.86	103.90	10.21	4.486 (J)	[PC]
1499	66.00	108.00	15.00	55.96	96.85	81.00	108.28	200.11	4.487 (J)	[PC]
1500	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.49	4.488 (J)	[PC]
1501	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	4.489 (J)	[PC]
1502	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.89	4.496 (J)	[A2M2]
1503	66.00	118.00	24.00	55.33	96.50	88.59	109.89	244.93	4.499 (J)	[PC]
1504	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.85	4.511 (J)	[PC]
1505	71.00	108.00	21.00	53.95	95.74	91.89	110.11	534.85	4.512 (J)	[PC]
1506	66.00	108.00	18.00	53.22	95.33	84.00	108.38	317.22	4.521 (J)	[PC]
1507	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.28	4.528 (J)	[A2M2]
1508	76.00	123.00	30.00	58.68	98.50	105.40	117.05	489.49	4.529 (J)	[PC]
1509	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	4.532 (J)	[PC]
1510	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.71	4.533 (J)	[PC]
1511	46.00	93.00	15.00	33.64	84.50	59.69	99.13	299.35	4.534 (J)	[PC]
1512	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	4.534 (J)	[PC]

1513	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.89	4.535 (J)	[A2M2]
1514	61.00	103.00	12.00	52.22	94.82	72.55	106.25	154.40	4.536 (J)	[PC]
1515	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.57	4.544 (J)	[PC]
1516	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.96	4.547 (J)	[PC]
1517	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	4.555 (J)	[PC]
1518	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	4.562 (J)	[A2M2]
1519	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.93	4.562 (J)	[PC]
1520	66.00	103.00	6.00	60.93	99.79	71.46	105.49	47.83	4.565 (J)	[PC]
1521	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.49	4.565 (J)	[A2M2]
1522	56.00	98.00	15.00	43.37	89.91	69.62	104.28	313.58	4.571 (J)	[PC]
1523	71.00	118.00	27.00	54.95	96.29	97.38	112.23	453.96	4.581 (J)	[PC]
1524	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.87	4.582 (J)	[PC]
1525	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	4.584 (J)	[A2M2]
1526	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	4.592 (J)	[A2M2]
1527	21.00	98.00	30.00	0.27	76.32	50.74	94.07	426.71	4.594 (J)	[PC]
1528	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	4.595 (J)	[A2M2]
1529	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.58	4.604 (J)	[A2M2]
1530	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.96	4.606 (J)	[PC]
1531	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	4.607 (J)	[A2M2]
1532	26.00	88.00	24.00	5.55	75.44	49.38	93.40	585.87	4.608 (J)	[PC]
1533	86.00	128.00	30.00	68.50	103.64	115.84	124.87	442.57	4.610 (J)	[PC]
1534	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.06	4.610 (J)	[PC]
1535	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.47	4.611 (J)	[PC]
1536	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.98	4.615 (J)	[A2M2]
1537	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.78	4.616 (J)	[PC]
1538	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	4.618 (J)	[A2M2]
1539	86.00	113.00	30.00	59.47	98.99	114.23	123.15	1201.93	4.619 (J)	[PC]
1540	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.08	4.632 (J)	[PC]
1541	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.49	4.635 (J)	[A2M2]
1542	81.00	118.00	27.00	61.03	99.83	107.99	118.60	628.47	4.637 (J)	[PC]
1543	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.05	4.643 (J)	[A2M2]
1544	36.00	88.00	9.00	29.07	82.25	44.58	90.71	90.96	4.643 (J)	[PC]
1545	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.05	4.650 (J)	[A2M2]
1546	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.58	4.657 (J)	[A2M2]
1547	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.77	4.659 (J)	[PC]
1548	76.00	108.00	24.00	55.03	96.33	99.35	113.56	790.78	4.660 (J)	[PC]
1549	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.47	4.666 (J)	[PC]
1550	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.08	4.670 (J)	[A2M2]
1551	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.43	4.672 (J)	[PC]
1552	66.00	128.00	30.00	59.15	98.79	90.07	110.09	148.06	4.678 (J)	[PC]
1553	66.00	103.00	15.00	53.14	95.28	80.06	108.24	325.47	4.679 (J)	[PC]
1554	71.00	123.00	30.00	56.13	96.94	99.51	113.67	400.08	4.681 (J)	[PC]
1555	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.08	4.687 (J)	[A2M2]
1556	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.72	4.692 (J)	[PC]
1557	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.98	4.692 (J)	[A2M2]
1558	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.44	4.692 (J)	[PC]
1559	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.21	4.693 (J)	[PC]
1560	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.49	4.695 (J)	[A2M2]
1561	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.20	4.695 (J)	[PC]
1562	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.33	4.704 (J)	[PC]
1563	81.00	113.00	24.00	60.96	99.80	104.69	116.87	660.20	4.705 (J)	[PC]

1564	71.00	113.00	21.00	56.93	97.41	91.80	110.10	352.43	4.708 (J)	[PC]
1565	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	4.718 (J)	[A2M2]
1566	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.71	4.721 (J)	[A2M2]
1567	76.00	118.00	27.00	57.87	97.99	102.92	115.97	536.72	4.725 (J)	[PC]
1568	66.00	123.00	27.00	57.09	97.51	89.69	110.05	197.77	4.732 (J)	[PC]
1569	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.49	4.733 (J)	[A2M2]
1570	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	4.735 (J)	[A2M2]
1571	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.30	4.738 (J)	[A2M2]
1572	86.00	123.00	27.00	67.74	103.11	112.97	121.81	491.21	4.747 (J)	[PC]
1573	86.00	113.00	27.00	62.12	100.40	111.83	120.85	959.33	4.747 (J)	[PC]
1574	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.37	4.754 (J)	[PC]
1575	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.71	4.756 (J)	[PC]
1576	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.56	4.759 (J)	[PC]
1577	21.00	93.00	24.00	4.44	75.62	44.91	90.93	293.44	4.770 (J)	[PC]
1578	86.00	118.00	24.00	67.33	102.91	109.94	119.74	526.56	4.784 (J)	[PC]
1579	36.00	88.00	12.00	26.48	80.69	47.22	92.25	176.71	4.786 (J)	[PC]
1580	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.26	4.790 (J)	[PC]
1581	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.30	4.800 (J)	[A2M2]
1582	71.00	118.00	24.00	57.80	97.95	93.73	110.30	309.37	4.802 (J)	[PC]
1583	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.34	4.803 (J)	[PC]
1584	26.00	88.00	27.00	1.78	76.07	52.14	94.77	802.34	4.805 (J)	[PC]
1585	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	4.814 (J)	[PC]
1586	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.81	4.814 (J)	[A2M2]
1587	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.71	4.814 (J)	[A2M2]
1588	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.75	4.815 (J)	[PC]
1589	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	4.819 (J)	[PC]
1590	76.00	113.00	24.00	57.47	97.75	99.98	113.99	575.75	4.828 (J)	[PC]
1591	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.10	4.835 (J)	[PC]
1592	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.26	4.847 (J)	[PC]
1593	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.83	4.853 (J)	[PC]
1594	71.00	128.00	27.00	64.81	101.72	91.20	110.08	101.18	4.869 (J)	[PC]
1595	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.81	4.874 (J)	[A2M2]
1596	71.00	108.00	18.00	56.60	97.20	88.90	109.93	381.83	4.875 (J)	[PC]
1597	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.20	4.879 (J)	[A2M2]
1598	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	4.891 (J)	[A2M2]
1599	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	4.903 (J)	[A2M2]
1600	81.00	123.00	27.00	64.54	101.59	107.60	118.37	403.26	4.903 (J)	[PC]
1601	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.06	4.905 (J)	[PC]
1602	81.00	128.00	30.00	65.75	102.16	109.82	119.68	351.10	4.906 (J)	[PC]
1603	16.00	88.00	15.00	8.59	74.96	30.06	82.78	35.26	4.908 (J)	[PC]
1604	86.00	113.00	24.00	64.81	101.72	109.16	119.29	740.06	4.936 (J)	[PC]
1605	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.11	4.940 (J)	[A2M2]
1606	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.88	4.953 (J)	[A2M2]
1607	46.00	108.00	15.00	49.32	93.37	56.15	96.95	2.25	4.960 (J)	[PC]
1608	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.05	4.975 (J)	[PC]
1609	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.05	4.979 (J)	[PC]
1610	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.20	4.979 (J)	[A2M2]
1611	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.11	4.982 (J)	[A2M2]
1612	76.00	108.00	21.00	57.62	97.84	96.66	111.75	602.05	5.005 (J)	[PC]
1613	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.44	5.023 (J)	[PC]
1614	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.88	5.024 (J)	[A2M2]

1615	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	5.028 (J)	[PC]
1616	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	5.032 (J)	[PC]
1617	71.00	123.00	27.00	59.10	98.76	94.91	110.45	258.05	5.040 (J)	[PC]
1618	56.00	98.00	12.00	45.90	91.53	67.02	102.76	197.78	5.044 (J)	[PC]
1619	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	5.060 (J)	[A2M2]
1620	46.00	93.00	12.00	36.36	85.86	57.11	97.52	186.35	5.068 (J)	[PC]
1621	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	5.070 (J)	[A2M2]
1622	71.00	113.00	18.00	59.60	99.07	88.73	109.91	228.01	5.072 (J)	[PC]
1623	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	5.075 (J)	[PC]
1624	86.00	113.00	6.00	82.23	108.33	91.24	110.08	14.33	5.085 (J)	[PC]
1625	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.27	5.089 (J)	[PC]
1626	71.00	118.00	21.00	60.73	99.68	90.45	110.09	190.44	5.092 (J)	[PC]
1627	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.43	5.109 (J)	[A2M2]
1628	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.45	5.116 (J)	[PC]
1629	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	5.116 (J)	[A2M2]
1630	71.00	113.00	18.00	59.60	99.07	88.73	109.91	228.01	5.137 (J)	[PC]
1631	81.00	118.00	24.00	63.81	101.25	104.98	116.94	448.27	5.139 (J)	[PC]
1632	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.15	5.160 (J)	[A2M2]
1633	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	5.176 (J)	[A2M2]
1634	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.88	5.181 (J)	[PC]
1635	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.43	5.193 (J)	[A2M2]
1636	86.00	113.00	21.00	67.53	103.01	106.55	117.35	549.00	5.197 (J)	[PC]
1637	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.71	5.199 (J)	[PC]
1638	86.00	128.00	27.00	71.29	105.36	112.08	121.00	276.45	5.210 (J)	[PC]
1639	86.00	113.00	21.00	67.53	103.01	106.55	117.35	549.00	5.210 (J)	[PC]
1640	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.15	5.210 (J)	[A2M2]
1641	81.00	113.00	21.00	63.65	101.17	101.88	115.27	478.71	5.211 (J)	[PC]
1642	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	5.212 (J)	[PC]
1643	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.28	5.213 (J)	[PC]
1644	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.50	5.213 (J)	[A2M2]
1645	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.90	5.218 (J)	[PC]
1646	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	5.227 (J)	[A2M2]
1647	76.00	113.00	9.00	71.27	105.34	83.72	108.37	31.02	5.231 (J)	[PC]
1648	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	5.231 (J)	[A2M2]
1649	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.03	5.233 (J)	[PC]
1650	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.22	5.235 (J)	[PC]
1651	16.00	88.00	18.00	2.65	75.92	33.66	84.51	134.06	5.246 (J)	[A2M2]
1652	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	5.247 (J)	[PC]
1653	76.00	123.00	27.00	61.63	100.14	101.87	115.26	324.88	5.249 (J)	[PC]
1654	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	5.249 (J)	[PC]
1655	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	5.257 (J)	[A2M2]
1656	66.00	103.00	12.00	55.76	96.74	77.09	107.59	206.08	5.257 (J)	[PC]
1657	76.00	123.00	18.00	71.54	105.56	88.28	109.84	29.77	5.257 (J)	[PC]
1658	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.45	5.264 (J)	[A2M2]
1659	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.55	5.275 (J)	[PC]
1660	76.00	118.00	24.00	60.58	99.61	99.62	113.74	373.03	5.286 (J)	[PC]
1661	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.50	5.287 (J)	[A2M2]
1662	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.87	5.295 (J)	[PC]
1663	86.00	123.00	24.00	70.47	104.70	109.76	119.64	322.90	5.296 (J)	[PC]
1664	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.65	5.297 (J)	[A2M2]
1665	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.22	5.298 (J)	[A2M2]

1666	71.00	113.00	15.00	62.55	100.61	85.44	108.95	129.22	5.312 (J)	[PC]
1667	16.00	88.00	18.00	2.65	75.92	33.66	84.51	134.06	5.313 (J)	[A2M2]
1668	16.00	93.00	21.00	4.13	75.68	35.60	85.45	94.28	5.315 (J)	[PC]
1669	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.65	5.345 (J)	[A2M2]
1670	71.00	123.00	24.00	62.47	100.57	91.23	110.08	146.55	5.355 (J)	[PC]
1671	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.45	5.359 (J)	[A2M2]
1672	71.00	128.00	30.00	60.88	99.76	95.37	110.51	202.87	5.369 (J)	[PC]
1673	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.95	5.394 (J)	[PC]
1674	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.51	5.395 (J)	[PC]
1675	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	5.395 (J)	[A2M2]
1676	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.22	5.427 (J)	[A2M2]
1677	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	5.430 (J)	[PC]
1678	76.00	108.00	18.00	60.19	99.40	93.85	110.32	440.75	5.435 (J)	[PC]
1679	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	5.440 (J)	[PC]
1680	71.00	108.00	12.00	61.84	100.25	82.99	108.35	153.00	5.476 (J)	[PC]
1681	76.00	128.00	30.00	63.13	100.90	103.71	116.50	270.51	5.485 (J)	[PC]
1682	71.00	108.00	15.00	59.15	98.80	85.96	109.13	254.12	5.500 (J)	[PC]
1683	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	5.523 (J)	[PC]
1684	86.00	133.00	30.00	72.48	106.22	114.40	123.33	222.95	5.523 (J)	[PC]
1685	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.39	5.547 (J)	[PC]
1686	71.00	108.00	12.00	61.84	100.25	82.99	108.35	153.00	5.549 (J)	[PC]
1687	86.00	113.00	15.00	72.59	106.27	100.91	114.61	245.99	5.556 (J)	[A2M2]
1688	76.00	108.00	6.00	70.82	104.97	81.99	108.32	45.91	5.565 (J)	[PC]
1689	76.00	113.00	21.00	60.05	99.33	96.97	111.96	412.39	5.591 (J)	[PC]
1690	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.28	5.592 (J)	[PC]
1691	86.00	113.00	15.00	72.59	106.27	100.91	114.61	245.99	5.604 (J)	[A2M2]
1692	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.89	5.620 (J)	[PC]
1693	86.00	118.00	21.00	69.96	104.45	106.99	117.46	360.28	5.660 (J)	[PC]
1694	76.00	113.00	18.00	62.82	100.75	93.80	110.31	278.89	5.669 (J)	[PC]
1695	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	5.702 (J)	[PC]
1696	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.49	5.707 (J)	[PC]
1697	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	5.729 (J)	[PC]
1698	76.00	133.00	27.00	72.50	106.23	90.29	110.09	21.41	5.740 (J)	[PC]
1699	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	5.744 (J)	[PC]
1700	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.58	5.755 (J)	[PC]
1701	56.00	98.00	9.00	48.54	92.97	64.30	101.48	107.51	5.759 (J)	[PC]
1702	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.98	5.769 (J)	[PC]
1703	76.00	108.00	3.00	73.38	106.54	78.99	108.19	9.63	5.773 (J)	[PC]
1704	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.74	5.786 (J)	[A2M2]
1705	21.00	88.00	21.00	3.98	75.70	41.98	89.02	328.49	5.794 (J)	[PC]
1706	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.05	5.803 (J)	[PC]
1707	86.00	113.00	18.00	70.12	104.52	103.66	116.47	384.05	5.813 (J)	[PC]
1708	76.00	118.00	21.00	63.53	101.10	95.63	110.54	239.58	5.821 (J)	[PC]
1709	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.08	5.837 (J)	[PC]
1710	76.00	108.00	15.00	62.86	100.77	90.85	110.09	304.08	5.858 (J)	[PC]
1711	81.00	123.00	24.00	67.64	103.06	104.17	116.74	253.98	5.865 (J)	[PC]
1712	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.49	5.869 (J)	[PC]
1713	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	5.898 (J)	[PC]
1714	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.71	5.902 (J)	[PC]
1715	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.74	5.903 (J)	[A2M2]
1716	21.00	88.00	24.00	0.01	76.36	44.83	90.88	507.49	5.916 (J)	[PC]

1717	76.00	118.00	12.00	72.92	106.40	83.14	108.36	11.03	5.918 (J)	[PC]
1718	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.30	5.922 (J)	[PC]
1719	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.44	6.000 (J)	[A2M2]
1720	81.00	118.00	21.00	66.71	102.61	101.82	115.22	295.30	6.000 (J)	[PC]
1721	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	6.016 (J)	[A2M2]
1722	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.81	6.017 (J)	[PC]
1723	81.00	128.00	27.00	68.84	103.89	105.72	117.13	204.71	6.018 (J)	[PC]
1724	76.00	113.00	15.00	65.67	102.12	90.71	110.09	170.81	6.092 (J)	[PC]
1725	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.44	6.097 (J)	[A2M2]
1726	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.20	6.099 (J)	[PC]
1727	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	6.113 (J)	[PC]
1728	81.00	118.00	12.00	75.97	107.10	90.02	110.09	24.04	6.128 (J)	[PC]
1729	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.11	6.175 (J)	[PC]
1730	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.88	6.192 (J)	[PC]
1731	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	6.213 (J)	[A2M2]
1732	86.00	123.00	21.00	73.08	106.45	106.20	117.26	185.20	6.224 (J)	[PC]
1733	66.00	103.00	9.00	58.33	98.29	74.23	106.64	114.11	6.227 (J)	[PC]
1734	76.00	118.00	18.00	66.68	102.60	92.19	110.14	136.88	6.280 (J)	[PC]
1735	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	6.325 (J)	[PC]
1736	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.96	6.335 (J)	[A2M2]
1737	86.00	123.00	15.00	82.80	108.35	94.05	110.34	11.11	6.338 (J)	[PC]
1738	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.92	6.351 (J)	[A2M2]
1739	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.43	6.386 (J)	[PC]
1740	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	6.395 (J)	[PC]
1741	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.96	6.420 (J)	[A2M2]
1742	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.92	6.432 (J)	[A2M2]
1743	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.06	6.445 (J)	[A2M2]
1744	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.15	6.451 (J)	[PC]
1745	76.00	113.00	12.00	68.50	103.64	87.53	109.67	87.51	6.470 (J)	[PC]
1746	76.00	123.00	24.00	64.86	101.74	97.48	112.30	193.43	6.492 (J)	[PC]
1747	81.00	113.00	18.00	66.40	102.47	99.00	113.32	327.15	6.513 (J)	[PC]
1748	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.50	6.516 (J)	[PC]
1749	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	6.534 (J)	[PC]
1750	81.00	128.00	21.00	76.74	107.44	92.01	110.12	17.39	6.539 (J)	[PC]
1751	16.00	88.00	18.00	2.65	75.92	33.66	84.51	134.06	6.557 (J)	[PC]
1752	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	6.571 (J)	[PC]
1753	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.06	6.579 (J)	[A2M2]
1754	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.45	6.580 (J)	[PC]
1755	76.00	123.00	21.00	68.30	103.46	92.63	110.18	97.50	6.609 (J)	[PC]
1756	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.65	6.621 (J)	[PC]
1757	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.22	6.623 (J)	[PC]
1758	16.00	88.00	18.00	2.65	75.92	33.66	84.51	134.06	6.642 (J)	[PC]
1759	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	6.652 (J)	[A2M2]
1760	76.00	108.00	12.00	65.56	102.07	87.87	109.78	191.65	6.681 (J)	[PC]
1761	86.00	118.00	18.00	72.42	106.19	103.95	116.66	221.45	6.698 (J)	[PC]
1762	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.74	6.739 (J)	[A2M2]
1763	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	6.742 (J)	[A2M2]
1764	86.00	128.00	24.00	74.89	106.73	108.11	118.68	140.54	6.744 (J)	[PC]
1765	81.00	133.00	30.00	70.67	104.84	106.60	117.36	150.22	6.784 (J)	[PC]
1766	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.74	6.823 (J)	[A2M2]
1767	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	6.856 (J)	[A2M2]

1768	86.00	113.00	15.00	72.59	106.27	100.91	114.61	245.99	6.944 (J)	[PC]
1769	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.27	6.968 (J)	[A2M2]
1770	86.00	113.00	15.00	72.59	106.27	100.91	114.61	245.99	7.005 (J)	[PC]
1771	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	7.019 (J)	[A2M2]
1772	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	7.047 (J)	[A2M2]
1773	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.86	7.060 (J)	[A2M2]
1774	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.27	7.123 (J)	[A2M2]
1775	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	7.126 (J)	[A2M2]
1776	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	7.133 (J)	[A2M2]
1777	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.86	7.167 (J)	[A2M2]
1778	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	7.184 (J)	[A2M2]
1779	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.74	7.233 (J)	[PC]
1780	76.00	128.00	27.00	66.75	102.63	98.39	112.92	143.74	7.379 (J)	[PC]
1781	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.44	7.500 (J)	[PC]
1782	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	7.519 (J)	[PC]
1783	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	7.591 (J)	[A2M2]
1784	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	7.610 (J)	[A2M2]
1785	81.00	118.00	18.00	69.45	104.19	98.24	112.81	174.44	7.621 (J)	[PC]
1786	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	7.715 (J)	[A2M2]
1787	86.00	133.00	27.00	76.99	107.55	109.31	119.38	92.01	7.766 (J)	[PC]
1788	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	7.822 (J)	[A2M2]
1789	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	7.840 (J)	[A2M2]
1790	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.96	7.919 (J)	[PC]
1791	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.92	7.939 (J)	[PC]
1792	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	8.006 (J)	[A2M2]
1793	76.00	108.00	9.00	68.25	103.43	84.97	108.78	105.96	8.025 (J)	[PC]
1794	81.00	113.00	15.00	69.01	103.98	95.90	111.23	206.92	8.040 (J)	[PC]
1795	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.06	8.056 (J)	[PC]
1796	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.03	8.060 (J)	[A2M2]
1797	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.91	8.078 (J)	[A2M2]
1798	81.00	123.00	21.00	70.58	104.77	99.96	113.97	134.06	8.224 (J)	[PC]
1799	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.91	8.230 (J)	[A2M2]
1800	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.03	8.277 (J)	[A2M2]
1801	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	8.315 (J)	[PC]
1802	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.74	8.424 (J)	[PC]
1803	81.00	138.00	30.00	78.32	108.12	92.09	110.13	6.50	8.428 (J)	[PC]
1804	81.00	113.00	12.00	71.57	105.58	92.66	110.18	114.74	8.529 (J)	[PC]
1805	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	8.570 (J)	[PC]
1806	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.27	8.710 (J)	[PC]
1807	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	8.774 (J)	[PC]
1808	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	8.809 (J)	[PC]
1809	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.86	8.826 (J)	[PC]
1810	76.00	133.00	30.00	68.80	103.88	98.11	112.73	93.27	8.904 (J)	[PC]
1811	86.00	138.00	30.00	81.71	108.31	109.70	119.60	43.32	8.908 (J)	[PC]
1812	81.00	113.00	9.00	74.59	106.69	89.49	110.02	46.70	8.917 (J)	[PC]
1813	81.00	118.00	15.00	72.04	105.97	93.89	110.32	84.86	8.959 (J)	[PC]
1814	86.00	118.00	15.00	75.78	107.02	100.56	114.37	112.37	8.980 (J)	[PC]
1815	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	9.480 (J)	[A2M2]
1816	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	9.488 (J)	[PC]
1817	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	9.512 (J)	[PC]
1818	81.00	123.00	18.00	73.65	106.57	93.76	110.31	49.64	9.644 (J)	[PC]

1819	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	9.778 (J)	[PC]
1820	86.00	123.00	18.00	76.86	107.49	102.42	115.63	78.49	9.800 (J)	[PC]
1821	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	9.841 (J)	[A2M2]
1822	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	9.853 (J)	[A2M2]
1823	81.00	133.00	27.00	74.81	106.72	100.53	114.36	42.64	10.007 (J)	[PC]
1824	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	10.025 (J)	[A2M2]
1825	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.03	10.075 (J)	[PC]
1826	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.91	10.097 (J)	[PC]
1827	86.00	113.00	12.00	75.63	106.96	97.99	112.65	136.91	10.288 (J)	[PC]
1828	81.00	128.00	24.00	71.85	105.81	100.93	114.62	89.03	10.346 (J)	[PC]
1829	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	10.419 (J)	[A2M2]
1830	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	10.643 (J)	[A2M2]
1831	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	10.920 (J)	[A2M2]
1832	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	10.990 (J)	[A2M2]
1833	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	11.849 (J)	[PC]
1834	86.00	128.00	21.00	79.02	108.19	103.46	116.33	40.08	12.301 (J)	[PC]
1835	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	12.316 (J)	[PC]
1836	86.00	113.00	9.00	78.41	108.16	94.62	110.41	60.74	12.531 (J)	[PC]
1837	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	13.024 (J)	[PC]
1838	86.00	118.00	12.00	79.08	108.20	95.37	110.51	36.61	13.303 (J)	[PC]
1839	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	13.651 (J)	[PC]
1840	81.00	113.00	6.00	77.83	107.91	85.42	108.94	6.53	13.738 (J)	[PC]

Analisi della superficie critica

Simbologia adottata

Le ascisse X sono considerate positive verso destra
Le ordinate Y sono considerate positive verso l'alto
Le strisce sono numerate da valle verso monte

N°	numero d'ordine della striscia
X_s	ascissa sinistra della striscia espressa in m
Y_{ss}	ordinata superiore sinistra della striscia espressa in m
Y_{si}	ordinata inferiore sinistra della striscia espressa in m
X_g	ascissa del baricentro della striscia espressa in m
Y_g	ordinata del baricentro della striscia espressa in m
α	angolo fra la base della striscia e l'orizzontale espresso °(positivo antiorario)
ϕ	angolo d'attrito del terreno lungo la base della striscia
c	coesione del terreno lungo la base della striscia espressa in kPa
L	sviluppo della base della striscia espressa in m(L=b/cosα)
u	pressione neutra lungo la base della striscia espressa in kPa
W	peso della striscia espresso in kN
Q	carico applicato sulla striscia espresso in kN
N	sforzo normale alla base della striscia espresso in kN
T	sforzo tangenziale alla base della striscia espresso in kN
U	pressione neutra alla base della striscia espressa in kN
E_s, E_d	forze orizzontali sulla striscia a sinistra e a destra espresse in kN
X_s, X_d	forze verticali sulla striscia a sinistra e a destra espresse in kN
ID	Indice della superficie interessata dall'intervento

Analisi della superficie 1 - coefficienti parziali caso A2M2 e sisma verso il basso

Numero di strisce	20	
Coordinate del centro	X[m]= 16.00	Y[m]= 93.00
Raggio del cerchio	R[m]= 18.00	
Intersezione a valle con il profilo topografico	X_v[m]= 21.07	Y_v[m]= 75.73
Intersezione a monte con il profilo topografico	X_m[m]= 31.20	Y_m[m]= 83.36
Coefficiente di sicurezza	C_S= 1.565	

Geometria e caratteristiche strisce

N°	X_s	Y_{ss}	Y_{si}	X_d	Y_{ds}	Y_{di}	X_g	Y_g	L	α	ϕ	c
1	21.07	75.73	75.73	21.57	76.10	75.88	21.40	75.91	0.52	17.19	41.62	6
2	21.57	76.10	75.88	22.07	76.48	76.05	21.84	76.14	0.53	18.86	41.62	6
3	22.07	76.48	76.05	22.56	76.85	76.24	22.33	76.42	0.53	20.54	41.62	6
4	22.56	76.85	76.24	23.06	77.23	76.44	22.82	76.70	0.54	22.24	41.62	6
5	23.06	77.23	76.44	23.62	77.90	76.69	23.36	77.08	0.61	24.06	41.62	6
6	23.62	77.90	76.69	24.17	78.56	76.96	23.91	77.54	0.62	26.02	41.62	6
7	24.17	78.56	76.96	24.73	79.23	77.26	24.46	78.01	0.63	28.01	41.62	6
8	24.73	79.23	77.26	25.21	79.63	77.53	24.97	78.42	0.55	29.89	41.62	6
9	25.21	79.63	77.53	25.69	80.03	77.83	25.45	78.76	0.56	31.67	41.62	6
10	25.69	80.03	77.83	26.17	80.43	78.15	25.93	79.11	0.58	33.49	41.62	6
11	26.17	80.43	78.15	26.65	80.83	78.49	26.41	79.48	0.59	35.34	41.62	6
12	26.65	80.83	78.49	27.13	81.23	78.85	26.89	79.85	0.60	37.23	41.62	6

13	27.13	81.23	78.85	27.67	81.52	79.30	27.40	80.22	0.70	39.31	41.62	6
14	27.67	81.52	79.30	28.21	81.80	79.78	27.94	80.59	0.72	41.57	41.62	6
15	28.21	81.80	79.78	28.75	82.09	80.30	28.48	80.99	0.75	43.92	41.62	6
16	28.75	82.09	80.30	29.30	82.37	80.87	29.02	81.40	0.78	46.37	41.62	6
17	29.30	82.37	80.87	29.84	82.66	81.49	29.56	81.84	0.82	48.93	41.62	6
18	29.84	82.66	81.49	30.38	82.94	82.17	30.09	82.30	0.87	51.63	41.62	6
19	30.38	82.94	82.17	30.92	83.23	82.93	30.61	82.78	0.93	54.50	41.62	6
20	30.92	83.23	82.93	31.20	83.36	83.36	31.01	83.17	0.52	56.81	41.62	6

Forze applicate sulle strisce [JANBU]

N°	W	Q	N	T	U	E_s	E_d	X_s	X_d
1	0.99	0.00	0.35	2.33	0.00	0.00	2.06	0.00	0.00
2	2.90	0.00	2.03	3.30	0.00	2.06	4.35	0.00	0.00
3	4.66	0.00	3.56	4.19	0.00	4.35	6.75	0.00	0.00
4	6.28	0.00	4.94	5.00	0.00	6.75	9.14	0.00	0.00
5	9.99	0.00	8.10	7.09	0.00	9.14	11.72	0.00	0.00
6	14.06	0.00	11.65	9.14	0.00	11.72	13.99	0.00	0.00
7	17.90	0.00	14.98	11.08	0.00	13.99	15.68	0.00	0.00
8	17.57	0.00	14.75	10.64	0.00	15.68	16.50	0.00	0.00
9	18.55	0.00	15.57	11.14	0.00	16.50	16.71	0.00	0.00
10	19.36	0.00	16.24	11.57	0.00	16.71	16.25	0.00	0.00
11	19.97	0.00	16.76	11.92	0.00	16.25	15.10	0.00	0.00
12	20.38	0.00	17.11	12.17	0.00	15.10	13.23	0.00	0.00
13	22.39	0.00	18.75	13.50	0.00	13.23	10.47	0.00	0.00
14	20.68	0.00	17.18	12.71	0.00	10.47	7.35	0.00	0.00
15	18.58	0.00	15.26	11.73	0.00	7.35	4.12	0.00	0.00
16	16.06	0.00	12.91	10.54	0.00	4.12	1.09	0.00	0.00
17	13.05	0.00	10.04	9.07	0.00	1.09	-1.29	0.00	0.00
18	9.47	0.00	6.53	7.27	0.00	-1.29	-2.46	0.00	0.00
19	5.22	0.00	2.18	5.05	0.00	-2.46	-1.61	0.00	0.00
20	0.76	0.00	-0.96	1.56	0.00	-1.61	0.00	0.00	0.00

Dichiarazioni secondo N.T.C. 2008 (punto 10.2)

Analisi e verifiche svolte con l'ausilio di codici di calcolo
Il sottoscritto Iacopo Parenti, in qualità di calcolatore delle opere in progetto, dichiara quanto segue.

Tipo di analisi svolta
L'analisi e le verifiche di stabilità sono condotte con l'ausilio di un codice di calcolo automatico.
I metodi di calcolo implementati sono i classici metodi delle strisce, basati sul concetto dell'equilibrio limite globale. La superficie di rottura è suddivisa in un determinato numero di strisce che consentono di calcolare le grandezze che entrano in gioco nelle equazioni risolutive.
Nel modulo terreni si adotta il criterio di rottura di Mohr-Coulomb. Nel modulo rocce si può adottare il criterio di rottura di Hoek-Brown o di Barton.
Il programma consente di inserire degli interventi di stabilizzazione, che possono intervenire secondo sue modalità diverse: variazione delle forze di interstriscia o resistenza a taglio equivalente.
L'analisi sotto le azioni sismiche è condotta con il metodo dell'analisi statica equivalente secondo le disposizioni del capitolo 7 del DM 14/01/2008.

Origine e caratteristiche dei codici di calcolo

Titolo	STAP - Stabilità Pendii Terreni e Rocce
Versione	11.0
Produttore	Aztec Informatica srl, Casole Bruzio (CS)
Utente	ING. PARENTI IACOPO
Licenza	AIU22951S

Affidabilità dei codici di calcolo
Un attento esame preliminare della documentazione a corredo del software ha consentito di valutarne l'affidabilità. La documentazione fornita dal produttore del software contiene un'esauriente descrizione delle basi teoriche, degli algoritmi impiegati e l'individuazione dei campi d'impiego. La società produttrice Aztec Informatica srl ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

Modalità di presentazione dei risultati
La relazione di calcolo strutturale presenta i dati di calcolo tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità. La relazione di calcolo illustra in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare.

Informazioni generali sull'elaborazione
Il software prevede una serie di controlli automatici che consentono l'individuazione di errori di modellazione, di non rispetto di limitazioni geometriche e di armatura e di presenza di elementi non verificati. Il codice di calcolo consente di visualizzare e controllare, sia in forma grafica che tabellare, i dati del modello strutturale, in modo da avere una visione consapevole del comportamento corretto del modello strutturale.

Giudizio motivato di accettabilità dei risultati
I risultati delle elaborazioni sono stati sottoposti a controlli dal sottoscritto utente del software. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali. Inoltre sulla base di considerazioni riguardanti gli stati tensionali e deformativi

determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni.
In base a quanto sopra, io sottoscritto asserisco che l'elaborazione è corretta ed idonea al caso specifico, pertanto i risultati di calcolo sono da ritenersi validi ed accettabili.

Luogo e data

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Il progettista
(Iacopo Parenti)

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