

Analiza akustyczna

**BUDOWA DO 72 FARM FOTOWOLTAICZNYCH
O ŁĄCZNEJ MOCY DO 72 MW WRAZ Z NIEZBĘDNĄ
INFRASTRUKTURĄ TECHNICZNĄ NA DZIAŁKACH
O NR EWID. 8/16, 14, 22, 23 W OBRĘBIE ZBYSZEWICE ORAZ NA
DZIAŁKACH O NR EWID. 31, 32, W OBRĘBIE SUŁASZEWO
W GMINIE MARGONIN**

Białe Błota, kwiecień 2026 r.

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1. Cel oraz zakres opracowania

Celem niniejszej analizy akustycznej jest sprawdzenie oddziaływań akustycznych na środowisko, w związku z eksploatacją planowanego zamierzeniami polegającymi na budowie farm fotowoltaicznych o łącznej mocy do 72 MW zlokalizowanych na dz. 14, 8/16, 22 (dr), 23 (W) w obrębie Zbyszewice oraz na dz. 31, 32 w obrębie Sułaszewo w Gminie Margonin.

Przeprowadzona w niniejszej analizie akustycznej prognoza oddziaływań uwzględnia wszystkie źródła hałasu związane z eksploatacją planowanej inwestycji.

Ze względu na bliskie sąsiedztwo przedmiotowej inwestycji z przedsięwzięciem o tym samym charakterze, dla którego wydano decyzję o środowiskowych uwarunkowaniach postanowiono dokonać modelowania akustycznego wszystkich inwestycji łącznie, czyli przeprowadzić tzw. analizę akustyczną skumulowaną.

Tabela 1. Inne inwestycje fotowoltaiczne oraz wiatrowe dla których wydano decyzje o środowiskowe.

Budowa elektrowni słonecznej o mocy do 4,0 MW wraz z infrastrukturą towarzyszącą na działce o nr ewid. 26 obręb Sułaszewo.	Decyzja z dnia 24 sierpnia 2020 r. znak: WGN.OS.6220.8.9.2020.MN
Budowa do 10 farm fotowoltaicznych o łącznej mocy do 10 MW wraz z niezbędną infrastrukturą techniczną na działce oznaczonej numerem ewidencyjnym 27 obręb Sułaszewo, gmina Margonin.	Decyzja z dnia 14 lipca 2023 r. znak: WGN.6220.5.11.2023.MN
Budowa do 10 farm fotowoltaicznych o mocy do 10 MW wraz z niezbędną infrastrukturą techniczną na działce oznaczonej numerem ewidencyjnym 84/7 obręb Sułaszewo.	Decyzja z dnia 10 października 2023 r. znak: WGN.OS.6220.6.14.2023.MN
Budowa do 16 farm fotowoltaicznych o mocy do 16 MW wraz z niezbędną infrastrukturą techniczną na działkach oznaczonych numerem ewidencyjnym 24/1, 25/2 obręb Sułaszewo, gmina Margonin.	Decyzja z dnia 7 listopada 2024 r. znak: WGN.OS.6220.19.42.2020.2024.MN
Budowa elektrowni fotowoltaicznej o mocy do 6 MW wraz z infrastrukturą towarzyszącą na działce oznaczonej numerem ewidencyjnym 119 obręb Sułaszewo.	Decyzja z dnia 7 września 2023 r. znak: WGN.OS.6220.21.26.2020.2023.MN
Budowa Obwodu nr 1, Farmy Wiatrowej MARGONIN WSCHÓD.	Decyzja z dnia 31 marca 2008 r. znak: ROŚ 7624/95/07/08

Źródło: opracowanie własne na podstawie informacji od Inwestora oraz <https://samorząd.gov.pl/web/gmina-margonin>.

2. Charakterystyka źródeł hałasu

2.1 Budowa do 72 farm fotowoltaicznych o łącznej mocy do 72 MW wraz z niezbędną infrastrukturą techniczną na działkach o nr ewid. 8/16, 14, 22, 23 w obrębie Zbyszewice oraz na działkach o nr ewid. 31, 32, w obrębie Sułaszewo w gminie Margonin.

Poniżej zestawiono podstawowe parametry akustyczne poszczególnych źródeł hałasu funkcjonujących na etapie eksploatacji przedmiotowej inwestycji. Szacunkowe wartości poziomów mocy akustycznej poszczególnych urządzeń określono na podstawie informacji od inwestora.

Tabela. 2. Źródła hałasu dla planowanego do realizacji przedsięwzięcia o mocy 72 MW.

Rodzaj źródła	Ilość [szt.]	Moc akustyczna
Stacja transformatorowa	20	77 dB (A)
Magazyn energii	40	77 dB (A)
Inwerter	273	65 dB (A)

Inwestor postanowił wprowadzić działania ograniczające:

- Podział ilości źródeł hałasu na poszczególnych działkach zgodnie z tabelą 3.
- Ograniczenie pracy stacji transformatorowych i inwerterów do pory dnia tj. 6.00-22.00.
- Odsunięcie stacji trafo i magazynów energii o min. 20 m od południowej granicy działki inwestycyjnej nr 14. Bufor w analizie akustycznej oznaczono symbolem: .

Tabela 3. Maksymalna ilość źródeł hałasu na poszczególnych działkach

Nr działki	Obręb	Ilość stacji trafo. [szt.]	Ilość magazynów energii [szt.]	Ilość inwerterów [szt.]
31, 32	Sułaszewo	7 (oznaczone w analizie jako ST 1- ST 7)	14 (oznaczone w analizie jako M 1- M 14)	98 (oznaczone w analizie jako I 1- I 98)
14	Zbyszewice	9 (oznaczone w analizie jako ST 1- ST 9)	18 (oznaczone w analizie jako M 1- M 18)	126 (oznaczone w analizie jako I 1- I 126)
8/16	Zbyszewice	4 (oznaczone w analizie jako ST 1- ST 4)	8 (oznaczone w analizie jako M 1- M 8)	49 (oznaczone w analizie jako I 1- I 49)

Inwestor dopuszcza zamontowanie systemów nadążnych tzw. tracker przy czym obecnie nie jest znana dokładna liczba ww. urządzeń. Ogólna emisja dźwięku z trackerów różni się w zależności od ogólnego rozmiaru i typu systemu nadążnego. Hałas pochodzący z trackerów jest incydentalny i chwilowy w zależności od pory roku. Jednocześnie inwestor zapewni, iż w przypadku zastosowania ww. technologii zostaną one posadowione w miejscach dla których poziom ciśnienia akustycznego nie zostanie przekroczony.

2.2 Budowa elektrowni słonecznej o mocy do 4,0 MW wraz z infrastrukturą towarzyszącą na działce o nr ewid. 26 obręb Sułaszewo.

Z uwagi na fakt, iż w decyzji o środowiskowych uwarunkowaniach z dnia 24 sierpnia 2020 r. znak: WGN.OS.6220.8.9.2020.MN nie uwzględniono ilości źródeł hałasu oraz ich mocy akustycznej, możliwych do realizacji dla zamierzenia, ilość stacji trafo przejęto zgodnie z kartą informacyjną przedsięwzięcia. Z uwagi na brak informacji w karcie informacyjnej przedsięwzięcia i decyzji o środowiskowych uwarunkowaniach dotyczącej ilości stosowanych inwerterów, mocy akustycznej inwerterów oraz mocy akustycznej stacji transformatorowej na potrzeby przeprowadzenia modelowania akustycznego przyjęto parametry tożsame z parametrami inwestora tj. 14 szt. inwerterów na 1 MW o mocy do 65 dB (A) oraz stację transformatorową o mocy do 77 dB (A).

Tabela. 4. Źródła hałasu dla przedsięwzięcia na działce o nr ewid. 26 obręb Sułaszewo, o mocy 4 MW.

Rodzaj źródła	Ilość [szt.]	Moc akustyczna	Oznaczenie w analizie akustycznej
Stacja transformatorowa	1	77 dB (A)	ST 1
Inwerter	56	65 dB (A)	I 1 – I 28 jako źródło zastępcze o mocy 68 dB (A) *

Objaśnienie źródeł zastępczych:

*Bierze się bowiem pod uwagę max. poziom mocy równy 65 dB (A) dla inwertera, zakładając $L_p = 65 \text{ dB (A)}$, $n=2$, poziom mocy akustycznej każdego z przyjętych źródeł zastępczych wynosi $L_{p(2)} = 68 \text{ dB (A)}$. Źródło zastępcze odpowiada 2 inwerterom.

2.3 Budowa do 10 farm fotowoltaicznych o łącznej mocy do 10 MW wraz z niezbędną infrastrukturą techniczną na działce oznaczonej numerem ewidencyjnym 27 obręb Sułaszewo, gmina Margonin.

Zgodnie z decyzją o środowiskowych uwarunkowaniach z dnia 14 lipca 2023 r. znak: WGN.OS.6220.5.11.2023.MN planuje się posadowienie do 10 szt. stacji transformatorowych oraz do 140 szt. inwerterów. Z uwagi na brak danych w decyzji o środowiskowych uwarunkowaniach dotyczących mocy akustycznej stosowanych źródeł hałasu przyjęto dane z karty informacyjnej przedsięwzięcia Cyt. „Inwertery w trakcie najbardziej intensywnej pracy emitują hałas o natężeniu do 65 dB (A)” oraz „Emisja hałasu związana będzie również z pracą transformatorów i magazynów energii. Maksymalny poziom mocy akustycznej każdej stacji i każdego magazynu (po uwzględnieniu obudowy – jej izolacyjności) nie przekroczy 77 dB (A)”.

Tabela. 5. Źródła hałasu dla planowanego do realizacji przedsięwzięcia o mocy 10 MW.

Rodzaj źródła	Ilość [szt.]	Moc akustyczna	Oznaczenie w analizie akustycznej
Stacja transformatorowa	10	77 dB (A)	ST 1- ST 10 oznaczone w analizie wspólnie ze stacjami trafo jako źródło zastępcze o mocy 80 dB (A)*
Magazyn energii	10	77 dB (A)	
Inwerter	140	65 dB (A)	I 1 – I 70 jako źródło zastępcze o mocy 68 dB (A) *

Objaśnienie źródeł zastępczych:

* Bierze się bowiem pod uwagę max. poziom mocy równy 77 dB (A) dla stacji trafo i magazynu energii, zakładając $L_p = 77$ dB (A), $n=2$, poziom mocy akustycznej każdego z przyjętych źródeł zastępczych wynosi $L_{p(2)} = 80$ dB (A). Źródło zastępcze odpowiada 1 stacji i 1 magazynowi energii.

*Bierze się bowiem pod uwagę max. poziom mocy równy 65 dB (A) dla inwertera, zakładając $L_p = 65$ dB (A), $n=2$, poziom mocy akustycznej każdego z przyjętych źródeł zastępczych wynosi $L_{p(2)} = 68$ dB (A). Źródło zastępcze odpowiada 2 inwerterom.

2.4 Budowa do 10 farm fotowoltaicznych o mocy do 10 MW wraz z niezbędną infrastrukturą techniczną na działce oznaczonej numerem ewidencyjnym 84/7 obręb Sułaszewo.

Zgodnie z decyzją o środowiskowych uwarunkowaniach z dnia 10 października 2023 r. znak: WGN.OS.6220.6.14.2023.MN planuje się posadowienie do 10 szt. stacji transformatorowych, 10 magazynów energii oraz do 140 szt. inwerterów. Z uwagi na brak danych w decyzji o środowiskowych uwarunkowaniach dotyczących mocy akustycznej stosowanych źródeł hałasu na potrzeby przeprowadzenia modelowania akustycznego przyjęto parametry tożsame z parametrami inwestora tj. inwertery o mocy do 65 dB (A) każdy oraz stację transformatorową i magazyny energii o mocy do 77 dB (A) każdy.

Tabela. 6. Źródła hałasu dla planowanego do realizacji przedsięwzięcia o mocy 10 MW.

Rodzaj źródła	ilość [szt.]	Moc akustyczna	Oznaczenie w analizie akustycznej
Stacja transformatorowa	10	77 dB (A)	ST 1- ST 10 oznaczone w analizie wspólnie ze stacjami trafo jako źródło zastępcze o mocy 80 dB (A)*
Magazyn energii	10	77 dB (A)	
Inwerter	140	65 dB (A)	I 1 – I 70 jako źródło zastępcze o mocy 68 dB (A).

Objaśnienie źródeł zastępczych:

* Bierze się bowiem pod uwagę max. poziom mocy równy 77 dB (A) dla stacji trafo i magazynu energii, zakładając $L_p = 77$ dB (A), $n=2$, poziom mocy akustycznej każdego z przyjętych źródeł zastępczych wynosi $L_{p(2)} = 80$ dB (A). Źródło zastępcze odpowiada 1 stacji i 1 magazynowi energii.

*Bierze się bowiem pod uwagę max. poziom mocy równy 65 dB (A) dla inwertera, zakładając $L_p = 65$ dB (A), $n=2$, poziom mocy akustycznej każdego z przyjętych źródeł zastępczych wynosi $L_{p(2)} = 68$ dB (A). Źródło zastępcze odpowiada 2 inwerterom.

2.5 Budowa do 16 farm fotowoltaicznych o mocy do 16 MW wraz z niezbędną infrastrukturą techniczną na działkach oznaczonych numerem ewidencyjnym 24/1, 25/2 obręb Sułaszewo, gmina Margonin.

Zgodnie z decyzją o środowiskowych uwarunkowaniach z dnia 7 listopada 2024 r. znak: WGN.OS.6220.19.42.2020.2024.MN planuje się posadowienie do 16 szt. stacji trafo i 224 sz. inwerterów. Jednym z warunków realizacji inwestycji jest odsunięcie stacji trafo minimum 100 m od granicy terenów chronionych akustycznie.

Tabela. 7. Źródła hałasu dla planowanego do realizacji przedsięwzięcia o mocy 16 MW.

Rodzaj źródła	Ilość [szt.]	Moc akustyczna	Oznaczenie w analizie akustycznej
Stacja transformatorowa	16	80 dB (A)	ST 1 – ST 8 jako źródło zastępcze o mocy 83 dB (A)*
Inwerter	224	65 dB (A)	I 1 – I 112 jako źródło zastępcze o mocy 68 dB (A)*

Objaśnienie źródeł zastępczych:

* Bierze się bowiem pod uwagę max. poziom mocy równy 80 dB (A) dla stacji trafo , zakładając $L_p = 83$ dB (A), $n=2$, poziom mocy akustycznej każdego z przyjętych źródeł zastępczych wynosi $L_{p(2)} = 83$ dB (A). Źródło zastępcze odpowiada 2 stacjom trafo.

*Bierze się bowiem pod uwagę max. poziom mocy równy 65 dB (A) dla inwertera, zakładając $L_p = 65$ dB (A), $n=2$, poziom mocy akustycznej każdego z przyjętych źródeł zastępczych wynosi $L_{p(2)} = 68$ dB (A). Źródło zastępcze odpowiada 2 inwerterom.

2.6 Budowa elektrowni fotowoltaicznej o mocy do 6 MW wraz z infrastrukturą towarzyszącą na działce oznaczonej numerem ewidencyjnym 119 obręb Sułaszewo.

Zgodnie z dokumentacją przedłożoną w trakcie postępowania administracyjnego oraz decyzją o środowiskowych uwarunkowaniach z dnia 7 września 2023 r. znak: WGN.OS.6220.21.26.2020.2023.MN planuje się posadowienie do 6 stacji transformatorowych oraz do 85 inwerterów. W uzupełnieniu do raportu przedłożona została analiza akustyczna z dnia

12 lipca 2021 r. na podstawie której ulokowano źródła hałasu tj. stacje transformatorowe. Jednym z warunków realizacji inwestycji jest odsunięcie stacji trafo minimum 50 m od granicy terenów chronionych akustycznie. Bufor w analizie akustycznej oznaczono symbolem: 

Tabela. 8. Źródła hałasu dla planowanego do realizacji przedsięwzięcia o mocy 6 MW.

Rodzaj źródła	Ilość [szt.]	Moc akustyczna	Oznaczenie w analizie akustycznej
Stacja transformatorowa	16	80 dB (A)	ST 1 – ST 6 o mocy akustycznej 80 dB (A).
Inwerter	224	X	X

2.7 Budowa Obwodu nr 1, Farmy Wiatrowej MARGONIN WSCHÓD

W dniu 31 marca 2008 r. znak: ROŚ 7624/95/07/08 wydano decyzję o środowiskowych uwarunkowaniach zgody na realizację przedsięwzięcia pn. Budowa Obwodu Nr 1, Farmy Wiatrowej MARGONIN WSCHÓD” ze względu na brak danych dotyczących źródeł hałasu na potrzeby przeprowadzenia modelowania akustycznego przyjęto dane modeli pobrane z programu WindPro, moc akustyczna turbin wynosi 105 dB (A).

- Elektrownia wiatrowa na działce nr 1/4 obręb Zbyszewice oznaczona w niniejszej analizie - W1 o mocy akustycznej 105 dB (A).
- Elektrownia wiatrowa na działce nr 25/1 obręb Sułaszewo oznaczona w niniejszej analizie – W2 o mocy akustycznej 105 dB (A).
- Elektrownia wiatrowa na działce nr 84/6 obręb Sułaszewo oznaczona w niniejszej analizie – W3 o mocy akustycznej 105 dB (A).

3. Lokalizacja inwestycji w aspekcie oddziaływań akustycznych

Planowane do realizacji przedsięwzięcie zlokalizowane będzie na terenach użytkowanych rolniczo, na którym w chwili obecnej nie funkcjonują źródła hałasu przemysłowego. Najbliższe źródło hałasu stanowi elektrownia wiatrowa zlokalizowana na działce 25/1 ob. Sułaszewo.

W przypadku pozostałych terenów otaczających teren inwestycji znajdują się:

- w kierunku północnym dominują tereny wykorzystywane rolniczo;
- w kierunku wschodnim dominują tereny wykorzystywane rolniczo oraz pojedyncze zadrzewienia. Najbliższe tereny chronione akustycznie – zabudowa zagrodowa znajdują się na części działki o nr ewid. 117/1 ob. Zbyszewice w odległości ok. 310 m od działki o nr ewid. 8/16;
- w kierunku południowym dominują tereny rolnicze. Najbliższe tereny chronione akustycznie – zabudowa jednorodzinna znajdują się na działce o nr ewid. 8/8 ob. Zbyszewice, w odległości ok. 280 m od działki o nr ewid. 23.
- w kierunku zachodnim dominują tereny rolnicze.

Należy zwrócić uwagę, iż w przeprowadzonej analizie akustycznej zastosowano założenia, mające za zadanie przedstawienie możliwie najniekorzystniejszego oddziaływania przedsięwzięcia tj.:

- założenie maksymalnej ilości stacji transformatorowych i magazynów energii położonych w bezpośrednim sąsiedztwie względem siebie,
- w modelu akustycznym nie uwzględniono kubatury konstrukcji paneli fotowoltaicznych, które stanowić będą swego rodzaju barierę, w rozchodzeniu się fali akustycznej.

Każda zatem ostateczna (faktyczna) inna lokalizacja przedmiotowych źródeł emisji hałasu, w granicach obszaru inwestycji będzie determinowała niższe wyniki, w rejonie najbliższych położonych, istniejących terenów chronionych akustycznie.

4. Dopuszczalne poziomy hałasu

Dopuszczalne poziomy hałasu, w środowisku określono w rozporządzeniu Ministra Środowiska z dnia 14 czerwca 2007 r. w sprawie dopuszczalnych poziomów hałasu w środowisku (Dz.U. 2014.112).

Zgodnie z powyższym rozporządzeniem wartości dopuszczalnych poziomów hałasu są różne w zależności od rodzaju źródła, zagospodarowania terenu oraz wskaźnika oceny hałasu.

Tabela 9. Dopuszczalne poziomy hałasu w środowisku.

Lp.	Rodzaj terenu	Dopuszczalny poziom hałasu [dB]			
		drogi lub linie kolejowe ¹⁾		pozostałe obiekty i działalność będąca źródłem hałasu	
		L _{Aeq D} przedział czasu odniesienia równy 16 godzinom	L _{Aeq N} przedział czasu odniesienia równy 8 godzinom	L _{Aeq D} przedział czasu odniesienia równy 8 najmniej korzystnym godzinom dnia kolejno po sobie następującym	L _{Aeq N} przedział czasu odniesienia równy 1 najmniej korzystnej godzinie nocy
1	a) Strefa ochronna „A” uzdrowiska b) Tereny szpitali poza miastem	50	45	45	40
2	a) Tereny zabudowy mieszkaniowej jednorodzinnej b) Tereny zabudowy związanej ze stałym lub wielogodzinym pobytem dzieci i młodzieży ²⁾ c) Tereny domów opieki społecznej d) Tereny szpitali w miastach	61	56	50	40
3	a) Tereny zabudowy mieszkaniowej wielorodzinnej i zamieszkania zbiorowego b) Tereny zabudowy zagrodowej c) Tereny rekreacyjno - wypoczynkowe ²⁾ d) Tereny mieszkaniowo - usługowe	65	56	55	45
4	Tereny w strefie śródmiejskiej miast powyżej 100 tys. mieszkańców ³⁾	68	60	55	45

Analizowane przedsięwzięcie kwalifikuje się do grupy „pozostałe obiekty i działalności będące źródłem hałasu”. Dla tej kategorii źródeł hałasu dopuszczalne wartości równoważnego poziomu dźwięku A dotyczą:

- Pory dnia tj. w godzinach 6:00 ÷ 22:00 – przedział czasu odniesienia równy 8 najmniej korzystnym godzinom dnia kolejno po sobie następującym;
- Pory nocy tj. 22:00 ÷ 6:00 – przedział czasu odniesienia równy 1 najmniej korzystnej godzinie nocy.

5. Obliczenia i wyniki

Analiza akustyczna nr 1

W celu określenia aktualnego stanu klimatu akustycznego w otoczeniu planowanej inwestycji na granicy terenów chronionych akustycznie, biorąc pod uwagę funkcjonujące farmy wiatrowe oraz planowane do realizacji liczne farmy fotowoltaiczne, dla których to uzyskano decyzje o środowiskowych uwarunkowaniach wykonano analizę akustyczną nr 1.

Przeprowadzona analiza akustyczna posłużyła jako punkt wyjścia, co pozwoliło określić zakres zmian stanu akustycznego na badanym terenie po zrealizowaniu przedmiotowej inwestycji.

Z.U.O. "EKO - SOFT"

Łódź ul. Rogozińskiego 17/7

tel. 042 648 71 85

HAŁAS PRZEMYSŁOWY i DROGOWY

PROGRAM SON2 WERSJA 5.424

Właściciel licencji: Pro Vento Energia Sp. z o.o.

ul. Grunwaldzka 4/10 85-236 Bydgoszcz

Licencja nr PV/85-236/Sp/21 z dnia 15.01.2021

DANE WEJŚCIOWE

Rodzaj obliczeń: Poziom hałasu równoważnego

1. Nazwa projektu:

2. Temperatura powietrza [st C.] = 10

3. Wilgotność względna powietrza [%] = 70

4. Tło akustyczne dB(A):

Pora dnia : 0.0

Pora nocy : 0.0

5. Rodzaj gruntu : grunt mieszany, wskaźnik gruntu G = 0.90

6. Punktowe źródła hałasu

Lp	Symbol	Współrzędne źródła				Rodzaj	LAW 8h	LAW 1h	Do
		x	y	z	ht	źródła			
-----		-----			-----	-----	-----	-----	-----
		m	m	m	m		dB(A)	dB(A)	dB

Dz. 26 ob. Sułaszewo

1	ST 1	1129.2	1232.5	2.5	0.0	wszechkier.	77.0	77.0
2	I 1	1044.1	1200.7	1.5	0.0	wszechkier.	68.0	68.0
3	I 2	1082.2	1202.0	1.5	0.0	wszechkier.	68.0	68.0
4	I 3	1122.0	1202.4	1.5	0.0	wszechkier.	68.0	68.0

5	I 4	1043.2	1167.7	1.5	0.0	wszechkier.	68.0	68.0
6	I 5	1084.3	1168.1	1.5	0.0	wszechkier.	68.0	68.0
7	I 6	1122.0	1168.5	1.5	0.0	wszechkier.	68.0	68.0
8	I 7	1045.3	1134.7	1.5	0.0	wszechkier.	68.0	68.0
9	I 8	1084.3	1134.7	1.5	0.0	wszechkier.	68.0	68.0
10	I 9	1123.2	1135.5	1.5	0.0	wszechkier.	68.0	68.0
11	I 10	1044.9	1102.1	1.5	0.0	wszechkier.	68.0	68.0
12	I 11	1082.6	1102.5	1.5	0.0	wszechkier.	68.0	68.0
13	I 12	1121.5	1102.5	1.5	0.0	wszechkier.	68.0	68.0
14	I 13	1162.2	1103.3	1.5	0.0	wszechkier.	68.0	68.0
15	I 14	1045.7	1070.3	1.5	0.0	wszechkier.	68.0	68.0
16	I 15	1083.8	1069.9	1.5	0.0	wszechkier.	68.0	68.0
17	I 16	1122.4	1070.7	1.5	0.0	wszechkier.	68.0	68.0
18	I 17	1161.8	1069.9	1.5	0.0	wszechkier.	68.0	68.0
19	I 18	1084.3	1036.9	1.5	0.0	wszechkier.	68.0	68.0
20	I 19	1124.1	1036.9	1.5	0.0	wszechkier.	68.0	68.0
21	I 20	1162.6	1037.3	1.5	0.0	wszechkier.	68.0	68.0
22	I 21	1083.8	1004.7	1.5	0.0	wszechkier.	68.0	68.0
23	I 22	1123.6	1004.7	1.5	0.0	wszechkier.	68.0	68.0
24	I 23	1161.3	1004.7	1.5	0.0	wszechkier.	68.0	68.0
25	I 24	1084.3	970.0	1.5	0.0	wszechkier.	68.0	68.0
26	I 25	1122.8	970.8	1.5	0.0	wszechkier.	68.0	68.0
27	I 26	1163.9	970.8	1.5	0.0	wszechkier.	68.0	68.0
28	I 27	1084.7	938.2	1.5	0.0	wszechkier.	68.0	68.0
29	I 28	1123.2	937.8	1.5	0.0	wszechkier.	68.0	68.0

Dz. 27 ob. Sułaszewo

30	ST 1	1001.3	1196.0	2.5	0.0	wszechkier.	80.0	80.0
31	ST 2	994.5	1193.9	2.5	0.0	wszechkier.	80.0	80.0
32	ST 3	986.5	1191.8	2.5	0.0	wszechkier.	80.0	80.0
33	ST 4	980.1	1189.7	2.5	0.0	wszechkier.	80.0	80.0
34	ST 5	971.7	1187.6	2.5	0.0	wszechkier.	80.0	80.0
35	ST 6	963.2	1185.9	2.5	0.0	wszechkier.	80.0	80.0
36	ST 7	955.1	1183.8	2.5	0.0	wszechkier.	80.0	80.0
37	ST 8	948.8	1180.8	2.5	0.0	wszechkier.	80.0	80.0
38	ST 9	940.7	1178.7	2.5	0.0	wszechkier.	80.0	80.0
39	ST 10	931.9	1176.1	2.5	0.0	wszechkier.	80.0	80.0
40	I 1	939.1	1171.9	1.5	0.0	wszechkier.	68.0	68.0
41	I 2	961.9	1171.9	1.5	0.0	wszechkier.	68.0	68.0
42	I 3	983.5	1173.2	1.5	0.0	wszechkier.	68.0	68.0
43	I 4	1004.7	1173.2	1.5	0.0	wszechkier.	68.0	68.0
44	I 5	895.4	1146.9	1.5	0.0	wszechkier.	68.0	68.0
45	I 6	918.7	1147.8	1.5	0.0	wszechkier.	68.0	68.0
46	I 7	940.7	1147.4	1.5	0.0	wszechkier.	68.0	68.0
47	I 8	962.3	1148.2	1.5	0.0	wszechkier.	68.0	68.0
48	I 9	983.5	1148.2	1.5	0.0	wszechkier.	68.0	68.0

49	I 10	1006.8	1148.6	1.5	0.0	wszechkier.	68.0	68.0
50	I 11	895.9	1122.4	1.5	0.0	wszechkier.	68.0	68.0
51	I 12	917.0	1121.5	1.5	0.0	wszechkier.	68.0	68.0
52	I 13	937.8	1121.5	1.5	0.0	wszechkier.	68.0	68.0
53	I 14	960.6	1122.4	1.5	0.0	wszechkier.	68.0	68.0
54	I 15	982.2	1123.2	1.5	0.0	wszechkier.	68.0	68.0
55	I 16	1006.4	1122.8	1.5	0.0	wszechkier.	68.0	68.0
56	I 17	897.1	1096.1	1.5	0.0	wszechkier.	68.0	68.0
57	I 18	919.6	1096.6	1.5	0.0	wszechkier.	68.0	68.0
58	I 19	940.3	1097.8	1.5	0.0	wszechkier.	68.0	68.0
59	I 20	963.2	1097.0	1.5	0.0	wszechkier.	68.0	68.0
60	I 21	983.5	1097.0	1.5	0.0	wszechkier.	68.0	68.0
61	I 22	1007.2	1098.2	1.5	0.0	wszechkier.	68.0	68.0
62	I 23	898.4	1072.8	1.5	0.0	wszechkier.	68.0	68.0
63	I 24	917.5	1071.6	1.5	0.0	wszechkier.	68.0	68.0
64	I 25	940.7	1070.3	1.5	0.0	wszechkier.	68.0	68.0
65	I 26	962.3	1070.7	1.5	0.0	wszechkier.	68.0	68.0
66	I 27	985.2	1072.4	1.5	0.0	wszechkier.	68.0	68.0
67	I 28	1008.1	1072.4	1.5	0.0	wszechkier.	68.0	68.0
68	I 29	1029.7	1072.4	1.5	0.0	wszechkier.	68.0	68.0
69	I 30	919.2	1047.0	1.5	0.0	wszechkier.	68.0	68.0
70	I 31	939.9	1046.6	1.5	0.0	wszechkier.	68.0	68.0
71	I 32	961.9	1047.4	1.5	0.0	wszechkier.	68.0	68.0
72	I 33	985.2	1048.3	1.5	0.0	wszechkier.	68.0	68.0
73	I 34	1007.2	1048.3	1.5	0.0	wszechkier.	68.0	68.0
74	I 35	1028.4	1047.4	1.5	0.0	wszechkier.	68.0	68.0
75	I 36	919.6	1022.0	1.5	0.0	wszechkier.	68.0	68.0
76	I 37	940.3	1022.0	1.5	0.0	wszechkier.	68.0	68.0
77	I 38	962.3	1022.0	1.5	0.0	wszechkier.	68.0	68.0
78	I 39	985.2	1022.9	1.5	0.0	wszechkier.	68.0	68.0
79	I 40	1006.8	1022.5	1.5	0.0	wszechkier.	68.0	68.0
80	I 41	1030.9	1022.5	1.5	0.0	wszechkier.	68.0	68.0
81	I 42	918.3	996.6	1.5	0.0	wszechkier.	68.0	68.0
82	I 43	941.2	996.2	1.5	0.0	wszechkier.	68.0	68.0
83	I 44	962.3	997.5	1.5	0.0	wszechkier.	68.0	68.0
84	I 45	986.5	998.3	1.5	0.0	wszechkier.	68.0	68.0
85	I 46	1009.3	997.9	1.5	0.0	wszechkier.	68.0	68.0
86	I 47	1031.3	997.5	1.5	0.0	wszechkier.	68.0	68.0
87	I 48	940.7	972.1	1.5	0.0	wszechkier.	68.0	68.0
88	I 49	962.8	973.3	1.5	0.0	wszechkier.	68.0	68.0
89	I 50	986.0	973.3	1.5	0.0	wszechkier.	68.0	68.0
90	I 51	1008.1	973.8	1.5	0.0	wszechkier.	68.0	68.0
91	I 52	1028.8	974.2	1.5	0.0	wszechkier.	68.0	68.0
92	I 53	1048.7	973.8	1.5	0.0	wszechkier.	68.0	68.0
93	I 54	941.6	946.7	1.5	0.0	wszechkier.	68.0	68.0

94	I 55	962.8	946.7	1.5	0.0	wszechkier.	68.0	68.0
95	I 56	986.5	947.9	1.5	0.0	wszechkier.	68.0	68.0
96	I 57	1008.5	947.9	1.5	0.0	wszechkier.	68.0	68.0
97	I 58	1030.1	947.9	1.5	0.0	wszechkier.	68.0	68.0
98	I 59	1052.5	947.5	1.5	0.0	wszechkier.	68.0	68.0
99	I 60	942.0	923.4	1.5	0.0	wszechkier.	68.0	68.0
100	I 61	963.2	923.4	1.5	0.0	wszechkier.	68.0	68.0
101	I 62	984.8	923.8	1.5	0.0	wszechkier.	68.0	68.0
102	I 63	1008.9	923.4	1.5	0.0	wszechkier.	68.0	68.0
103	I 64	1032.2	923.0	1.5	0.0	wszechkier.	68.0	68.0
104	I 65	1052.5	922.5	1.5	0.0	wszechkier.	68.0	68.0
105	I 66	943.7	897.6	1.5	0.0	wszechkier.	68.0	68.0
106	I 67	964.0	898.0	1.5	0.0	wszechkier.	68.0	68.0
107	I 68	984.4	898.0	1.5	0.0	wszechkier.	68.0	68.0
108	I 69	1005.9	900.5	1.5	0.0	wszechkier.	68.0	68.0
109	I 70	1029.2	900.1	1.5	0.0	wszechkier.	68.0	68.0

Dz. 84/7 ob. Sułaszewo

110	ST 1	1170.6	1417.5	2.5	0.0	wszechkier.	80.0	80.0
111	ST 2	1177.4	1415.4	2.5	0.0	wszechkier.	80.0	80.0
112	ST 3	1186.3	1413.2	2.5	0.0	wszechkier.	80.0	80.0
113	ST 4	1192.2	1411.1	2.5	0.0	wszechkier.	80.0	80.0
114	ST 5	1199.9	1408.2	2.5	0.0	wszechkier.	80.0	80.0
115	ST 6	1206.6	1406.5	2.5	0.0	wszechkier.	80.0	80.0
116	ST 7	1214.2	1403.9	2.5	0.0	wszechkier.	80.0	80.0
117	ST 8	1220.6	1401.4	2.5	0.0	wszechkier.	80.0	80.0
118	ST 9	1228.6	1398.0	2.5	0.0	wszechkier.	80.0	80.0
119	ST 10	1235.8	1395.9	2.5	0.0	wszechkier.	80.0	80.0
120	I 1	1190.1	1392.9	1.5	0.0	wszechkier.	68.0	68.0
121	I 2	1209.2	1393.3	1.5	0.0	wszechkier.	68.0	68.0
122	I 3	1188.4	1369.6	1.5	0.0	wszechkier.	68.0	68.0
123	I 4	1210.4	1368.4	1.5	0.0	wszechkier.	68.0	68.0
124	I 5	1229.9	1367.9	1.5	0.0	wszechkier.	68.0	68.0
125	I 6	1247.7	1368.4	1.5	0.0	wszechkier.	68.0	68.0
126	I 7	1269.3	1367.5	1.5	0.0	wszechkier.	68.0	68.0
127	I 8	1208.7	1343.4	1.5	0.0	wszechkier.	68.0	68.0
128	I 9	1227.4	1343.0	1.5	0.0	wszechkier.	68.0	68.0
129	I 10	1251.5	1342.1	1.5	0.0	wszechkier.	68.0	68.0
130	I 11	1267.6	1343.0	1.5	0.0	wszechkier.	68.0	68.0
131	I 12	1287.5	1343.0	1.5	0.0	wszechkier.	68.0	68.0
132	I 13	1213.0	1316.3	1.5	0.0	wszechkier.	68.0	68.0
133	I 14	1231.2	1317.6	1.5	0.0	wszechkier.	68.0	68.0
134	I 15	1248.5	1317.1	1.5	0.0	wszechkier.	68.0	68.0
135	I 16	1268.0	1315.4	1.5	0.0	wszechkier.	68.0	68.0
136	I 17	1290.5	1315.4	1.5	0.0	wszechkier.	68.0	68.0
137	I 18	1212.6	1291.3	1.5	0.0	wszechkier.	68.0	68.0

138	I 19	1233.3	1290.5	1.5	0.0	wszechkier.	68.0	68.0
139	I 20	1250.2	1290.9	1.5	0.0	wszechkier.	68.0	68.0
140	I 21	1269.7	1290.9	1.5	0.0	wszechkier.	68.0	68.0
141	I 22	1288.8	1290.0	1.5	0.0	wszechkier.	68.0	68.0
142	I 23	1210.9	1264.6	1.5	0.0	wszechkier.	68.0	68.0
143	I 24	1231.6	1263.8	1.5	0.0	wszechkier.	68.0	68.0
144	I 25	1249.4	1264.2	1.5	0.0	wszechkier.	68.0	68.0
145	I 26	1269.3	1264.2	1.5	0.0	wszechkier.	68.0	68.0
146	I 27	1291.3	1264.6	1.5	0.0	wszechkier.	68.0	68.0
147	I 28	1229.5	1239.2	1.5	0.0	wszechkier.	68.0	68.0
148	I 29	1248.5	1239.2	1.5	0.0	wszechkier.	68.0	68.0
149	I 30	1270.6	1239.2	1.5	0.0	wszechkier.	68.0	68.0
150	I 31	1292.6	1238.8	1.5	0.0	wszechkier.	68.0	68.0
151	I 32	1310.4	1238.4	1.5	0.0	wszechkier.	68.0	68.0
152	I 33	1230.3	1212.1	1.5	0.0	wszechkier.	68.0	68.0
153	I 34	1248.5	1212.1	1.5	0.0	wszechkier.	68.0	68.0
154	I 35	1270.6	1213.8	1.5	0.0	wszechkier.	68.0	68.0
155	I 36	1290.9	1213.4	1.5	0.0	wszechkier.	68.0	68.0
156	I 37	1310.4	1211.7	1.5	0.0	wszechkier.	68.0	68.0
157	I 38	1231.2	1185.9	1.5	0.0	wszechkier.	68.0	68.0
158	I 39	1251.5	1185.5	1.5	0.0	wszechkier.	68.0	68.0
159	I 40	1270.6	1187.2	1.5	0.0	wszechkier.	68.0	68.0
160	I 41	1292.2	1186.7	1.5	0.0	wszechkier.	68.0	68.0
161	I 42	1312.9	1186.3	1.5	0.0	wszechkier.	68.0	68.0
162	I 43	1252.4	1161.3	1.5	0.0	wszechkier.	68.0	68.0
163	I 44	1271.0	1160.1	1.5	0.0	wszechkier.	68.0	68.0
164	I 45	1293.0	1160.5	1.5	0.0	wszechkier.	68.0	68.0
165	I 46	1312.9	1161.8	1.5	0.0	wszechkier.	68.0	68.0
166	I 47	1330.3	1161.8	1.5	0.0	wszechkier.	68.0	68.0
167	I 48	1251.1	1136.8	1.5	0.0	wszechkier.	68.0	68.0
168	I 49	1291.7	1134.7	1.5	0.0	wszechkier.	68.0	68.0
169	I 50	1311.2	1134.7	1.5	0.0	wszechkier.	68.0	68.0
170	I 51	1330.7	1134.7	1.5	0.0	wszechkier.	68.0	68.0
171	I 52	1289.6	1108.4	1.5	0.0	wszechkier.	68.0	68.0
172	I 53	1310.4	1109.7	1.5	0.0	wszechkier.	68.0	68.0
173	I 54	1330.7	1109.7	1.5	0.0	wszechkier.	68.0	68.0
174	I 55	1272.7	1081.3	1.5	0.0	wszechkier.	68.0	68.0
175	I 56	1291.7	1082.2	1.5	0.0	wszechkier.	68.0	68.0
176	I 57	1312.5	1082.6	1.5	0.0	wszechkier.	68.0	68.0
177	I 58	1330.7	1083.0	1.5	0.0	wszechkier.	68.0	68.0
178	I 59	1350.6	1083.0	1.5	0.0	wszechkier.	68.0	68.0
179	I 60	1270.6	1055.5	1.5	0.0	wszechkier.	68.0	68.0
180	I 61	1290.9	1055.9	1.5	0.0	wszechkier.	68.0	68.0
181	I 62	1312.9	1055.5	1.5	0.0	wszechkier.	68.0	68.0
182	I 63	1331.5	1057.2	1.5	0.0	wszechkier.	68.0	68.0

183	I 64	1353.5	1057.2	1.5	0.0	wszechkier.	68.0	68.0
184	I 65	1293.0	1031.3	1.5	0.0	wszechkier.	68.0	68.0
185	I 66	1313.7	1030.5	1.5	0.0	wszechkier.	68.0	68.0
186	I 67	1331.1	1032.6	1.5	0.0	wszechkier.	68.0	68.0
187	I 68	1351.8	1031.3	1.5	0.0	wszechkier.	68.0	68.0
188	I 69	1291.3	1006.4	1.5	0.0	wszechkier.	68.0	68.0
189	I 70	1311.6	1005.5	1.5	0.0	wszechkier.	68.0	68.0

Dz. 24/1, 25/2 ob. Sułaszewo

190	ST 1	965.3	1524.6	2.5	0.0	wszechkier.	83.0	83.0
191	ST 2	955.6	1521.2	2.5	0.0	wszechkier.	83.0	83.0
192	ST 3	943.3	1518.7	2.5	0.0	wszechkier.	83.0	83.0
193	ST 4	931.4	1515.7	2.5	0.0	wszechkier.	83.0	83.0
194	ST 5	924.2	1514.0	2.5	0.0	wszechkier.	83.0	83.0
195	ST 6	917.9	1512.3	2.5	0.0	wszechkier.	83.0	83.0
196	ST 7	910.7	1511.0	2.5	0.0	wszechkier.	83.0	83.0
197	ST 8	903.5	1509.3	2.5	0.0	wszechkier.	83.0	83.0
198	I 1	697.3	1451.3	1.5	0.0	wszechkier.	68.0	68.0
199	I 2	735.8	1458.5	1.5	0.0	wszechkier.	68.0	68.0
200	I 3	781.1	1468.7	1.5	0.0	wszechkier.	68.0	68.0
201	I 4	830.2	1480.1	1.5	0.0	wszechkier.	68.0	68.0
202	I 5	873.4	1485.2	1.5	0.0	wszechkier.	68.0	68.0
203	I 6	912.4	1490.3	1.5	0.0	wszechkier.	68.0	68.0
204	I 7	946.7	1494.5	1.5	0.0	wszechkier.	68.0	68.0
205	I 8	638.9	1434.8	1.5	0.0	wszechkier.	68.0	68.0
206	I 9	699.8	1434.4	1.5	0.0	wszechkier.	68.0	68.0
207	I 10	744.3	1433.6	1.5	0.0	wszechkier.	68.0	68.0
208	I 11	784.9	1436.1	1.5	0.0	wszechkier.	68.0	68.0
209	I 12	836.6	1439.9	1.5	0.0	wszechkier.	68.0	68.0
210	I 13	874.7	1451.3	1.5	0.0	wszechkier.	68.0	68.0
211	I 14	911.1	1461.9	1.5	0.0	wszechkier.	68.0	68.0
212	I 15	952.6	1467.0	1.5	0.0	wszechkier.	68.0	68.0
213	I 16	539.4	1408.6	1.5	0.0	wszechkier.	68.0	68.0
214	I 17	638.9	1390.0	1.5	0.0	wszechkier.	68.0	68.0
215	I 18	706.6	1397.6	1.5	0.0	wszechkier.	68.0	68.0
216	I 19	747.3	1401.8	1.5	0.0	wszechkier.	68.0	68.0
217	I 20	796.4	1401.0	1.5	0.0	wszechkier.	68.0	68.0
218	I 21	839.1	1409.0	1.5	0.0	wszechkier.	68.0	68.0
219	I 22	878.5	1425.9	1.5	0.0	wszechkier.	68.0	68.0
220	I 23	923.0	1434.0	1.5	0.0	wszechkier.	68.0	68.0
221	I 24	956.4	1436.5	1.5	0.0	wszechkier.	68.0	68.0
222	I 25	504.2	1396.7	1.5	0.0	wszechkier.	68.0	68.0
223	I 26	558.0	1387.0	1.5	0.0	wszechkier.	68.0	68.0
224	I 27	459.4	1353.5	1.5	0.0	wszechkier.	68.0	68.0
225	I 28	506.8	1368.8	1.5	0.0	wszechkier.	68.0	68.0
226	I 29	565.2	1346.8	1.5	0.0	wszechkier.	68.0	68.0

227	I 30	641.0	1346.3	1.5	0.0	wszechkier.	68.0	68.0
228	I 31	707.9	1358.2	1.5	0.0	wszechkier.	68.0	68.0
229	I 32	755.3	1359.9	1.5	0.0	wszechkier.	68.0	68.0
230	I 33	794.3	1363.3	1.5	0.0	wszechkier.	68.0	68.0
231	I 34	849.3	1363.3	1.5	0.0	wszechkier.	68.0	68.0
232	I 35	882.7	1391.2	1.5	0.0	wszechkier.	68.0	68.0
233	I 36	917.9	1401.0	1.5	0.0	wszechkier.	68.0	68.0
234	I 37	965.3	1413.7	1.5	0.0	wszechkier.	68.0	68.0
235	I 38	1010.2	1414.9	1.5	0.0	wszechkier.	68.0	68.0
236	I 39	1035.2	1412.8	1.5	0.0	wszechkier.	68.0	68.0
237	I 40	1058.0	1414.5	1.5	0.0	wszechkier.	68.0	68.0
238	I 41	1082.6	1418.7	1.5	0.0	wszechkier.	68.0	68.0
239	I 42	500.4	1337.5	1.5	0.0	wszechkier.	68.0	68.0
240	I 43	513.1	1313.7	1.5	0.0	wszechkier.	68.0	68.0
241	I 44	567.3	1308.2	1.5	0.0	wszechkier.	68.0	68.0
242	I 45	637.2	1302.3	1.5	0.0	wszechkier.	68.0	68.0
243	I 46	716.4	1317.6	1.5	0.0	wszechkier.	68.0	68.0
244	I 47	765.0	1320.9	1.5	0.0	wszechkier.	68.0	68.0
245	I 48	804.0	1326.9	1.5	0.0	wszechkier.	68.0	68.0
246	I 49	854.0	1331.1	1.5	0.0	wszechkier.	68.0	68.0
247	I 50	898.8	1361.2	1.5	0.0	wszechkier.	68.0	68.0
248	I 51	933.1	1378.5	1.5	0.0	wszechkier.	68.0	68.0
249	I 52	949.2	1359.9	1.5	0.0	wszechkier.	68.0	68.0
250	I 53	982.2	1376.8	1.5	0.0	wszechkier.	68.0	68.0
251	I 54	1016.5	1368.4	1.5	0.0	wszechkier.	68.0	68.0
252	I 55	1036.4	1370.1	1.5	0.0	wszechkier.	68.0	68.0
253	I 56	1065.2	1374.3	1.5	0.0	wszechkier.	68.0	68.0
254	I 57	1091.9	1382.8	1.5	0.0	wszechkier.	68.0	68.0
255	I 58	1065.2	1360.3	1.5	0.0	wszechkier.	68.0	68.0
256	I 59	1087.7	1367.5	1.5	0.0	wszechkier.	68.0	68.0
257	I 60	1095.7	1343.8	1.5	0.0	wszechkier.	68.0	68.0
258	I 61	1099.9	1324.3	1.5	0.0	wszechkier.	68.0	68.0
259	I 62	1075.8	1322.6	1.5	0.0	wszechkier.	68.0	68.0
260	I 63	1041.9	1323.9	1.5	0.0	wszechkier.	68.0	68.0
261	I 64	983.9	1324.3	1.5	0.0	wszechkier.	68.0	68.0
262	I 65	944.6	1322.2	1.5	0.0	wszechkier.	68.0	68.0
263	I 66	896.7	1321.8	1.5	0.0	wszechkier.	68.0	68.0
264	I 67	457.2	1293.0	1.5	0.0	wszechkier.	68.0	68.0
265	I 68	507.6	1282.8	1.5	0.0	wszechkier.	68.0	68.0
266	I 69	803.6	1293.8	1.5	0.0	wszechkier.	68.0	68.0
267	I 70	859.0	1296.8	1.5	0.0	wszechkier.	68.0	68.0
268	I 71	1038.1	1292.2	1.5	0.0	wszechkier.	68.0	68.0
269	I 72	1076.2	1290.0	1.5	0.0	wszechkier.	68.0	68.0
270	I 73	1100.4	1298.1	1.5	0.0	wszechkier.	68.0	68.0
271	I 74	449.2	1229.5	1.5	0.0	wszechkier.	68.0	68.0

272	I 75	511.4	1249.4	1.5	0.0	wszechkier.	68.0	68.0
273	I 76	572.4	1266.7	1.5	0.0	wszechkier.	68.0	68.0
274	I 77	641.4	1270.6	1.5	0.0	wszechkier.	68.0	68.0
275	I 78	721.0	1265.1	1.5	0.0	wszechkier.	68.0	68.0
276	I 79	774.4	1272.7	1.5	0.0	wszechkier.	68.0	68.0
277	I 80	815.4	1270.1	1.5	0.0	wszechkier.	68.0	68.0
278	I 81	860.7	1261.7	1.5	0.0	wszechkier.	68.0	68.0
279	I 82	908.6	1285.8	1.5	0.0	wszechkier.	68.0	68.0
280	I 83	957.3	1278.6	1.5	0.0	wszechkier.	68.0	68.0
281	I 84	1014.8	1260.4	1.5	0.0	wszechkier.	68.0	68.0
282	I 85	1052.1	1244.7	1.5	0.0	wszechkier.	68.0	68.0
283	I 86	1085.5	1254.9	1.5	0.0	wszechkier.	68.0	68.0
284	I 87	1108.4	1271.0	1.5	0.0	wszechkier.	68.0	68.0
285	I 88	899.7	1255.3	1.5	0.0	wszechkier.	68.0	68.0
286	I 89	945.0	1249.0	1.5	0.0	wszechkier.	68.0	68.0
287	I 90	984.8	1223.6	1.5	0.0	wszechkier.	68.0	68.0
288	I 91	456.0	1183.8	1.5	0.0	wszechkier.	68.0	68.0
289	I 92	525.8	1207.9	1.5	0.0	wszechkier.	68.0	68.0
290	I 93	583.4	1198.2	1.5	0.0	wszechkier.	68.0	68.0
291	I 94	644.8	1226.1	1.5	0.0	wszechkier.	68.0	68.0
292	I 95	651.2	1192.2	1.5	0.0	wszechkier.	68.0	68.0
293	I 96	726.9	1224.8	1.5	0.0	wszechkier.	68.0	68.0
294	I 97	780.3	1242.6	1.5	0.0	wszechkier.	68.0	68.0
295	I 98	749.8	1193.9	1.5	0.0	wszechkier.	68.0	68.0
296	I 99	825.6	1182.5	1.5	0.0	wszechkier.	68.0	68.0
297	I 100	867.5	1215.9	1.5	0.0	wszechkier.	68.0	68.0
298	I 101	935.7	1200.7	1.5	0.0	wszechkier.	68.0	68.0
299	I 102	1020.8	1228.6	1.5	0.0	wszechkier.	68.0	68.0
300	I 103	472.9	1150.3	1.5	0.0	wszechkier.	68.0	68.0
301	I 104	531.3	1177.8	1.5	0.0	wszechkier.	68.0	68.0
302	I 105	536.4	1138.9	1.5	0.0	wszechkier.	68.0	68.0
303	I 106	596.5	1145.2	1.5	0.0	wszechkier.	68.0	68.0
304	I 107	663.9	1157.1	1.5	0.0	wszechkier.	68.0	68.0
305	I 108	733.7	1146.5	1.5	0.0	wszechkier.	68.0	68.0
306	I 109	504.7	1086.8	1.5	0.0	wszechkier.	68.0	68.0
307	I 110	554.6	1102.5	1.5	0.0	wszechkier.	68.0	68.0
308	I 111	642.3	1115.2	1.5	0.0	wszechkier.	68.0	68.0
309	I 112	441.6	1069.9	1.5	0.0	wszechkier.	68.0	68.0

Dz. 119 ob. Sułaszewo

310	ST 1	1331.1	495.8	2.5	0.0	wszechkier.	80.0	80.0
311	ST 2	1343.4	498.7	2.5	0.0	wszechkier.	80.0	80.0
312	ST 3	1354.4	501.7	2.5	0.0	wszechkier.	80.0	80.0
313	ST 4	1367.9	505.1	2.5	0.0	wszechkier.	80.0	80.0
314	ST 5	1381.1	508.9	2.5	0.0	wszechkier.	80.0	80.0
315	ST 6	1396.3	513.1	2.5	0.0	wszechkier.	80.0	80.0

Elektrownie wiatrowe

316	FW 1	444.5	1121.5	100.0	0.0	wszechkier.	105.0	105.0
317	FW 2	1262.5	1114.8	100.0	0.0	wszechkier.	105.0	105.0
318	FW 3	-216.8	189.7	100.0	0.0	wszechkier.	105.0	105.0

z - wysokość źródła nad gruntem ; ht - wysokość gruntu względem płaszczyzny odniesienia

LAW 8hD - równoważny poziom mocy akustycznej źródła w przedziale 8 kolejnych najmniej korzystnych godzin dnia

LAW 1hN - równoważny poziom mocy akustycznej źródła w przedziale 1 najmniej korzystnej godziny nocy

Nr	Współrzędne punktów			Wysokość		Poziom dźwięku w porze	
punktu	x	y	z	terenu	dnia	nocy	
	m	m	m	m	dB(A)	dB(A)	
1	-500.0	2150.0	4.0	0.0	30.7	30.7	
2	-450.0	2150.0	4.0	0.0	31.0	31.0	
3	-400.0	2150.0	4.0	0.0	31.2	31.2	
4	-350.0	2150.0	4.0	0.0	31.4	31.4	
5	-300.0	2150.0	4.0	0.0	31.6	31.6	
6	-250.0	2150.0	4.0	0.0	31.8	31.8	
7	-200.0	2150.0	4.0	0.0	32.0	32.0	
8	-150.0	2150.0	4.0	0.0	32.2	32.2	
9	-100.0	2150.0	4.0	0.0	32.4	32.4	
10	-50.0	2150.0	4.0	0.0	32.6	32.6	
11	0.0	2150.0	4.0	0.0	32.8	32.8	
12	50.0	2150.0	4.0	0.0	33.0	33.0	
13	100.0	2150.0	4.0	0.0	33.2	33.2	
14	150.0	2150.0	4.0	0.0	33.4	33.4	
15	200.0	2150.0	4.0	0.0	33.5	33.5	
16	250.0	2150.0	4.0	0.0	33.7	33.7	
17	300.0	2150.0	4.0	0.0	33.8	33.8	
18	350.0	2150.0	4.0	0.0	33.9	33.9	
19	400.0	2150.0	4.0	0.0	34.1	34.1	
20	450.0	2150.0	4.0	0.0	34.2	34.2	
21	500.0	2150.0	4.0	0.0	34.3	34.3	
22	550.0	2150.0	4.0	0.0	34.4	34.4	
23	600.0	2150.0	4.0	0.0	34.4	34.4	
24	650.0	2150.0	4.0	0.0	34.5	34.5	
25	700.0	2150.0	4.0	0.0	34.6	34.6	
26	750.0	2150.0	4.0	0.0	34.6	34.6	
27	800.0	2150.0	4.0	0.0	34.7	34.7	
28	850.0	2150.0	4.0	0.0	34.7	34.7	
29	900.0	2150.0	4.0	0.0	34.7	34.7	

30	950.0	2150.0	4.0	0.0	34.7	34.7
31	1000.0	2150.0	4.0	0.0	34.7	34.7
32	1050.0	2150.0	4.0	0.0	34.7	34.7
33	1100.0	2150.0	4.0	0.0	34.6	34.6
34	1150.0	2150.0	4.0	0.0	34.6	34.6
35	1200.0	2150.0	4.0	0.0	34.5	34.5
36	1250.0	2150.0	4.0	0.0	34.4	34.4
37	1300.0	2150.0	4.0	0.0	34.3	34.3
38	1350.0	2150.0	4.0	0.0	34.2	34.2
39	1400.0	2150.0	4.0	0.0	34.1	34.1
40	1450.0	2150.0	4.0	0.0	33.9	33.9
41	1500.0	2150.0	4.0	0.0	33.7	33.7
42	1550.0	2150.0	4.0	0.0	33.6	33.6
43	1600.0	2150.0	4.0	0.0	33.4	33.4
44	1650.0	2150.0	4.0	0.0	33.2	33.2
45	1700.0	2150.0	4.0	0.0	33.0	33.0
46	1750.0	2150.0	4.0	0.0	32.7	32.7
47	1800.0	2150.0	4.0	0.0	32.5	32.5
48	1850.0	2150.0	4.0	0.0	32.3	32.3
49	1900.0	2150.0	4.0	0.0	32.0	32.0
50	1950.0	2150.0	4.0	0.0	31.8	31.8
51	2000.0	2150.0	4.0	0.0	31.5	31.5
52	2050.0	2150.0	4.0	0.0	31.2	31.2
53	2100.0	2150.0	4.0	0.0	31.0	31.0
54	2150.0	2150.0	4.0	0.0	30.7	30.7
55	-500.0	2100.0	4.0	0.0	31.0	31.0
56	-450.0	2100.0	4.0	0.0	31.2	31.2
57	-400.0	2100.0	4.0	0.0	31.5	31.5
58	-350.0	2100.0	4.0	0.0	31.7	31.7
59	-300.0	2100.0	4.0	0.0	31.9	31.9
60	-250.0	2100.0	4.0	0.0	32.1	32.1
61	-200.0	2100.0	4.0	0.0	32.3	32.3
62	-150.0	2100.0	4.0	0.0	32.6	32.6
63	-100.0	2100.0	4.0	0.0	32.8	32.8
64	-50.0	2100.0	4.0	0.0	33.0	33.0
65	0.0	2100.0	4.0	0.0	33.2	33.2
66	50.0	2100.0	4.0	0.0	33.4	33.4
67	100.0	2100.0	4.0	0.0	33.6	33.6
68	150.0	2100.0	4.0	0.0	33.7	33.7
69	200.0	2100.0	4.0	0.0	33.9	33.9
70	250.0	2100.0	4.0	0.0	34.1	34.1
71	300.0	2100.0	4.0	0.0	34.2	34.2
72	350.0	2100.0	4.0	0.0	34.4	34.4
73	400.0	2100.0	4.0	0.0	34.5	34.5
74	450.0	2100.0	4.0	0.0	34.6	34.6

75	500.0	2100.0	4.0	0.0	34.7	34.7
76	550.0	2100.0	4.0	0.0	34.8	34.8
77	600.0	2100.0	4.0	0.0	34.9	34.9
78	650.0	2100.0	4.0	0.0	35.0	35.0
79	700.0	2100.0	4.0	0.0	35.0	35.0
80	750.0	2100.0	4.0	0.0	35.1	35.1
81	800.0	2100.0	4.0	0.0	35.1	35.1
82	850.0	2100.0	4.0	0.0	35.2	35.2
83	900.0	2100.0	4.0	0.0	35.2	35.2
84	950.0	2100.0	4.0	0.0	35.2	35.2
85	1000.0	2100.0	4.0	0.0	35.2	35.2
86	1050.0	2100.0	4.0	0.0	35.2	35.2
87	1100.0	2100.0	4.0	0.0	35.1	35.1
88	1150.0	2100.0	4.0	0.0	35.1	35.1
89	1200.0	2100.0	4.0	0.0	35.0	35.0
90	1250.0	2100.0	4.0	0.0	34.9	34.9
91	1300.0	2100.0	4.0	0.0	34.8	34.8
92	1350.0	2100.0	4.0	0.0	34.7	34.7
93	1400.0	2100.0	4.0	0.0	34.5	34.5
94	1450.0	2100.0	4.0	0.0	34.4	34.4
95	1500.0	2100.0	4.0	0.0	34.2	34.2
96	1550.0	2100.0	4.0	0.0	34.0	34.0
97	1600.0	2100.0	4.0	0.0	33.8	33.8
98	1650.0	2100.0	4.0	0.0	33.6	33.6
99	1700.0	2100.0	4.0	0.0	33.3	33.3
100	1750.0	2100.0	4.0	0.0	33.1	33.1
101	1800.0	2100.0	4.0	0.0	32.9	32.9
102	1850.0	2100.0	4.0	0.0	32.6	32.6
103	1900.0	2100.0	4.0	0.0	32.3	32.3
104	1950.0	2100.0	4.0	0.0	32.1	32.1
105	2000.0	2100.0	4.0	0.0	31.8	31.8
106	2050.0	2100.0	4.0	0.0	31.5	31.5
107	2100.0	2100.0	4.0	0.0	31.3	31.3
108	2150.0	2100.0	4.0	0.0	31.0	31.0
109	-500.0	2050.0	4.0	0.0	31.3	31.3
110	-450.0	2050.0	4.0	0.0	31.5	31.5
111	-400.0	2050.0	4.0	0.0	31.7	31.7
112	-350.0	2050.0	4.0	0.0	32.0	32.0
113	-300.0	2050.0	4.0	0.0	32.2	32.2
114	-250.0	2050.0	4.0	0.0	32.4	32.4
115	-200.0	2050.0	4.0	0.0	32.7	32.7
116	-150.0	2050.0	4.0	0.0	32.9	32.9
117	-100.0	2050.0	4.0	0.0	33.1	33.1
118	-50.0	2050.0	4.0	0.0	33.3	33.3
119	0.0	2050.0	4.0	0.0	33.6	33.6

120	50.0	2050.0	4.0	0.0	33.8	33.8
121	100.0	2050.0	4.0	0.0	34.0	34.0
122	150.0	2050.0	4.0	0.0	34.1	34.1
123	200.0	2050.0	4.0	0.0	34.3	34.3
124	250.0	2050.0	4.0	0.0	34.5	34.5
125	300.0	2050.0	4.0	0.0	34.7	34.7
126	350.0	2050.0	4.0	0.0	34.8	34.8
127	400.0	2050.0	4.0	0.0	34.9	34.9
128	450.0	2050.0	4.0	0.0	35.1	35.1
129	500.0	2050.0	4.0	0.0	35.2	35.2
130	550.0	2050.0	4.0	0.0	35.3	35.3
131	600.0	2050.0	4.0	0.0	35.4	35.4
132	650.0	2050.0	4.0	0.0	35.4	35.4
133	700.0	2050.0	4.0	0.0	35.5	35.5
134	750.0	2050.0	4.0	0.0	35.6	35.6
135	800.0	2050.0	4.0	0.0	35.6	35.6
136	850.0	2050.0	4.0	0.0	35.7	35.7
137	900.0	2050.0	4.0	0.0	35.7	35.7
138	950.0	2050.0	4.0	0.0	35.7	35.7
139	1000.0	2050.0	4.0	0.0	35.7	35.7
140	1050.0	2050.0	4.0	0.0	35.7	35.7
141	1100.0	2050.0	4.0	0.0	35.6	35.6
142	1150.0	2050.0	4.0	0.0	35.6	35.6
143	1200.0	2050.0	4.0	0.0	35.5	35.5
144	1250.0	2050.0	4.0	0.0	35.4	35.4
145	1300.0	2050.0	4.0	0.0	35.3	35.3
146	1350.0	2050.0	4.0	0.0	35.1	35.1
147	1400.0	2050.0	4.0	0.0	35.0	35.0
148	1450.0	2050.0	4.0	0.0	34.8	34.8
149	1500.0	2050.0	4.0	0.0	34.6	34.6
150	1550.0	2050.0	4.0	0.0	34.4	34.4
151	1600.0	2050.0	4.0	0.0	34.2	34.2
152	1650.0	2050.0	4.0	0.0	34.0	34.0
153	1700.0	2050.0	4.0	0.0	33.7	33.7
154	1750.0	2050.0	4.0	0.0	33.5	33.5
155	1800.0	2050.0	4.0	0.0	33.2	33.2
156	1850.0	2050.0	4.0	0.0	33.0	33.0
157	1900.0	2050.0	4.0	0.0	32.7	32.7
158	1950.0	2050.0	4.0	0.0	32.4	32.4
159	2000.0	2050.0	4.0	0.0	32.1	32.1
160	2050.0	2050.0	4.0	0.0	31.8	31.8
161	2100.0	2050.0	4.0	0.0	31.5	31.5
162	2150.0	2050.0	4.0	0.0	31.3	31.3
163	-500.0	2000.0	4.0	0.0	31.5	31.5
164	-450.0	2000.0	4.0	0.0	31.8	31.8

165	-400.0	2000.0	4.0	0.0	32.0	32.0
166	-350.0	2000.0	4.0	0.0	32.3	32.3
167	-300.0	2000.0	4.0	0.0	32.5	32.5
168	-250.0	2000.0	4.0	0.0	32.8	32.8
169	-200.0	2000.0	4.0	0.0	33.0	33.0
170	-150.0	2000.0	4.0	0.0	33.2	33.2
171	-100.0	2000.0	4.0	0.0	33.5	33.5
172	-50.0	2000.0	4.0	0.0	33.7	33.7
173	0.0	2000.0	4.0	0.0	33.9	33.9
174	50.0	2000.0	4.0	0.0	34.1	34.1
175	100.0	2000.0	4.0	0.0	34.4	34.4
176	150.0	2000.0	4.0	0.0	34.6	34.6
177	200.0	2000.0	4.0	0.0	34.8	34.8
178	250.0	2000.0	4.0	0.0	34.9	34.9
179	300.0	2000.0	4.0	0.0	35.1	35.1
180	350.0	2000.0	4.0	0.0	35.3	35.3
181	400.0	2000.0	4.0	0.0	35.4	35.4
182	450.0	2000.0	4.0	0.0	35.5	35.5
183	500.0	2000.0	4.0	0.0	35.6	35.6
184	550.0	2000.0	4.0	0.0	35.7	35.7
185	600.0	2000.0	4.0	0.0	35.8	35.8
186	650.0	2000.0	4.0	0.0	35.9	35.9
187	700.0	2000.0	4.0	0.0	36.0	36.0
188	750.0	2000.0	4.0	0.0	36.1	36.1
189	800.0	2000.0	4.0	0.0	36.1	36.1
190	850.0	2000.0	4.0	0.0	36.2	36.2
191	900.0	2000.0	4.0	0.0	36.2	36.2
192	950.0	2000.0	4.0	0.0	36.2	36.2
193	1000.0	2000.0	4.0	0.0	36.2	36.2
194	1050.0	2000.0	4.0	0.0	36.2	36.2
195	1100.0	2000.0	4.0	0.0	36.1	36.1
196	1150.0	2000.0	4.0	0.0	36.1	36.1
197	1200.0	2000.0	4.0	0.0	36.0	36.0
198	1250.0	2000.0	4.0	0.0	35.9	35.9
199	1300.0	2000.0	4.0	0.0	35.8	35.8
200	1350.0	2000.0	4.0	0.0	35.6	35.6
201	1400.0	2000.0	4.0	0.0	35.5	35.5
202	1450.0	2000.0	4.0	0.0	35.3	35.3
203	1500.0	2000.0	4.0	0.0	35.1	35.1
204	1550.0	2000.0	4.0	0.0	34.9	34.9
205	1600.0	2000.0	4.0	0.0	34.6	34.6
206	1650.0	2000.0	4.0	0.0	34.4	34.4
207	1700.0	2000.0	4.0	0.0	34.1	34.1
208	1750.0	2000.0	4.0	0.0	33.9	33.9
209	1800.0	2000.0	4.0	0.0	33.6	33.6

210	1850.0	2000.0	4.0	0.0	33.3	33.3
211	1900.0	2000.0	4.0	0.0	33.0	33.0
212	1950.0	2000.0	4.0	0.0	32.7	32.7
213	2000.0	2000.0	4.0	0.0	32.4	32.4
214	2050.0	2000.0	4.0	0.0	32.1	32.1
215	2100.0	2000.0	4.0	0.0	31.8	31.8
216	2150.0	2000.0	4.0	0.0	31.5	31.5
217	-500.0	1950.0	4.0	0.0	31.8	31.8
218	-450.0	1950.0	4.0	0.0	32.1	32.1
219	-400.0	1950.0	4.0	0.0	32.3	32.3
220	-350.0	1950.0	4.0	0.0	32.6	32.6
221	-300.0	1950.0	4.0	0.0	32.8	32.8
222	-250.0	1950.0	4.0	0.0	33.1	33.1
223	-200.0	1950.0	4.0	0.0	33.3	33.3
224	-150.0	1950.0	4.0	0.0	33.6	33.6
225	-100.0	1950.0	4.0	0.0	33.8	33.8
226	-50.0	1950.0	4.0	0.0	34.1	34.1
227	0.0	1950.0	4.0	0.0	34.3	34.3
228	50.0	1950.0	4.0	0.0	34.6	34.6
229	100.0	1950.0	4.0	0.0	34.8	34.8
230	150.0	1950.0	4.0	0.0	35.0	35.0
231	200.0	1950.0	4.0	0.0	35.2	35.2
232	250.0	1950.0	4.0	0.0	35.4	35.4
233	300.0	1950.0	4.0	0.0	35.6	35.6
234	350.0	1950.0	4.0	0.0	35.7	35.7
235	400.0	1950.0	4.0	0.0	35.9	35.9
236	450.0	1950.0	4.0	0.0	36.0	36.0
237	500.0	1950.0	4.0	0.0	36.1	36.1
238	550.0	1950.0	4.0	0.0	36.2	36.2
239	600.0	1950.0	4.0	0.0	36.3	36.3
240	650.0	1950.0	4.0	0.0	36.4	36.4
241	700.0	1950.0	4.0	0.0	36.5	36.5
242	750.0	1950.0	4.0	0.0	36.6	36.6
243	800.0	1950.0	4.0	0.0	36.7	36.7
244	850.0	1950.0	4.0	0.0	36.7	36.7
245	900.0	1950.0	4.0	0.0	36.7	36.7
246	950.0	1950.0	4.0	0.0	36.8	36.8
247	1000.0	1950.0	4.0	0.0	36.8	36.8
248	1050.0	1950.0	4.0	0.0	36.7	36.7
249	1100.0	1950.0	4.0	0.0	36.7	36.7
250	1150.0	1950.0	4.0	0.0	36.6	36.6
251	1200.0	1950.0	4.0	0.0	36.5	36.5
252	1250.0	1950.0	4.0	0.0	36.4	36.4
253	1300.0	1950.0	4.0	0.0	36.3	36.3
254	1350.0	1950.0	4.0	0.0	36.2	36.2

255	1400.0	1950.0	4.0	0.0	36.0	36.0
256	1450.0	1950.0	4.0	0.0	35.8	35.8
257	1500.0	1950.0	4.0	0.0	35.6	35.6
258	1550.0	1950.0	4.0	0.0	35.3	35.3
259	1600.0	1950.0	4.0	0.0	35.1	35.1
260	1650.0	1950.0	4.0	0.0	34.8	34.8
261	1700.0	1950.0	4.0	0.0	34.6	34.6
262	1750.0	1950.0	4.0	0.0	34.3	34.3
263	1800.0	1950.0	4.0	0.0	34.0	34.0
264	1850.0	1950.0	4.0	0.0	33.7	33.7
265	1900.0	1950.0	4.0	0.0	33.4	33.4
266	1950.0	1950.0	4.0	0.0	33.0	33.0
267	2000.0	1950.0	4.0	0.0	32.7	32.7
268	2050.0	1950.0	4.0	0.0	32.4	32.4
269	2100.0	1950.0	4.0	0.0	32.1	32.1
270	2150.0	1950.0	4.0	0.0	31.8	31.8
271	-500.0	1900.0	4.0	0.0	32.1	32.1
272	-450.0	1900.0	4.0	0.0	32.3	32.3
273	-400.0	1900.0	4.0	0.0	32.6	32.6
274	-350.0	1900.0	4.0	0.0	32.9	32.9
275	-300.0	1900.0	4.0	0.0	33.1	33.1
276	-250.0	1900.0	4.0	0.0	33.4	33.4
277	-200.0	1900.0	4.0	0.0	33.7	33.7
278	-150.0	1900.0	4.0	0.0	33.9	33.9
279	-100.0	1900.0	4.0	0.0	34.2	34.2
280	-50.0	1900.0	4.0	0.0	34.5	34.5
281	0.0	1900.0	4.0	0.0	34.7	34.7
282	50.0	1900.0	4.0	0.0	35.0	35.0
283	100.0	1900.0	4.0	0.0	35.2	35.2
284	150.0	1900.0	4.0	0.0	35.4	35.4
285	200.0	1900.0	4.0	0.0	35.7	35.7
286	250.0	1900.0	4.0	0.0	35.9	35.9
287	300.0	1900.0	4.0	0.0	36.0	36.0
288	350.0	1900.0	4.0	0.0	36.2	36.2
289	400.0	1900.0	4.0	0.0	36.4	36.4
290	450.0	1900.0	4.0	0.0	36.5	36.5
291	500.0	1900.0	4.0	0.0	36.6	36.6
292	550.0	1900.0	4.0	0.0	36.7	36.7
293	600.0	1900.0	4.0	0.0	36.9	36.9
294	650.0	1900.0	4.0	0.0	37.0	37.0
295	700.0	1900.0	4.0	0.0	37.0	37.0
296	750.0	1900.0	4.0	0.0	37.1	37.1
297	800.0	1900.0	4.0	0.0	37.2	37.2
298	850.0	1900.0	4.0	0.0	37.3	37.3
299	900.0	1900.0	4.0	0.0	37.3	37.3

300	950.0	1900.0	4.0	0.0	37.4	37.4
301	1000.0	1900.0	4.0	0.0	37.4	37.4
302	1050.0	1900.0	4.0	0.0	37.3	37.3
303	1100.0	1900.0	4.0	0.0	37.3	37.3
304	1150.0	1900.0	4.0	0.0	37.2	37.2
305	1200.0	1900.0	4.0	0.0	37.1	37.1
306	1250.0	1900.0	4.0	0.0	37.0	37.0
307	1300.0	1900.0	4.0	0.0	36.9	36.9
308	1350.0	1900.0	4.0	0.0	36.7	36.7
309	1400.0	1900.0	4.0	0.0	36.5	36.5
310	1450.0	1900.0	4.0	0.0	36.3	36.3
311	1500.0	1900.0	4.0	0.0	36.1	36.1
312	1550.0	1900.0	4.0	0.0	35.8	35.8
313	1600.0	1900.0	4.0	0.0	35.6	35.6
314	1650.0	1900.0	4.0	0.0	35.3	35.3
315	1700.0	1900.0	4.0	0.0	35.0	35.0
316	1750.0	1900.0	4.0	0.0	34.7	34.7
317	1800.0	1900.0	4.0	0.0	34.4	34.4
318	1850.0	1900.0	4.0	0.0	34.0	34.0
319	1900.0	1900.0	4.0	0.0	33.7	33.7
320	1950.0	1900.0	4.0	0.0	33.4	33.4
321	2000.0	1900.0	4.0	0.0	33.0	33.0
322	2050.0	1900.0	4.0	0.0	32.7	32.7
323	2100.0	1900.0	4.0	0.0	32.4	32.4
324	2150.0	1900.0	4.0	0.0	32.0	32.0
325	-500.0	1850.0	4.0	0.0	32.3	32.3
326	-450.0	1850.0	4.0	0.0	32.6	32.6
327	-400.0	1850.0	4.0	0.0	32.9	32.9
328	-350.0	1850.0	4.0	0.0	33.1	33.1
329	-300.0	1850.0	4.0	0.0	33.4	33.4
330	-250.0	1850.0	4.0	0.0	33.7	33.7
331	-200.0	1850.0	4.0	0.0	34.0	34.0
332	-150.0	1850.0	4.0	0.0	34.3	34.3
333	-100.0	1850.0	4.0	0.0	34.6	34.6
334	-50.0	1850.0	4.0	0.0	34.8	34.8
335	0.0	1850.0	4.0	0.0	35.1	35.1
336	50.0	1850.0	4.0	0.0	35.4	35.4
337	100.0	1850.0	4.0	0.0	35.6	35.6
338	150.0	1850.0	4.0	0.0	35.9	35.9
339	200.0	1850.0	4.0	0.0	36.1	36.1
340	250.0	1850.0	4.0	0.0	36.3	36.3
341	300.0	1850.0	4.0	0.0	36.5	36.5
342	350.0	1850.0	4.0	0.0	36.7	36.7
343	400.0	1850.0	4.0	0.0	36.9	36.9
344	450.0	1850.0	4.0	0.0	37.0	37.0

345	500.0	1850.0	4.0	0.0	37.2	37.2
346	550.0	1850.0	4.0	0.0	37.3	37.3
347	600.0	1850.0	4.0	0.0	37.4	37.4
348	650.0	1850.0	4.0	0.0	37.5	37.5
349	700.0	1850.0	4.0	0.0	37.6	37.6
350	750.0	1850.0	4.0	0.0	37.7	37.7
351	800.0	1850.0	4.0	0.0	37.8	37.8
352	850.0	1850.0	4.0	0.0	37.9	37.9
353	900.0	1850.0	4.0	0.0	38.0	38.0
354	950.0	1850.0	4.0	0.0	38.0	38.0
355	1000.0	1850.0	4.0	0.0	38.0	38.0
356	1050.0	1850.0	4.0	0.0	38.0	38.0
357	1100.0	1850.0	4.0	0.0	37.9	37.9
358	1150.0	1850.0	4.0	0.0	37.8	37.8
359	1200.0	1850.0	4.0	0.0	37.7	37.7
360	1250.0	1850.0	4.0	0.0	37.6	37.6
361	1300.0	1850.0	4.0	0.0	37.4	37.4
362	1350.0	1850.0	4.0	0.0	37.3	37.3
363	1400.0	1850.0	4.0	0.0	37.1	37.1
364	1450.0	1850.0	4.0	0.0	36.8	36.8
365	1500.0	1850.0	4.0	0.0	36.6	36.6
366	1550.0	1850.0	4.0	0.0	36.3	36.3
367	1600.0	1850.0	4.0	0.0	36.0	36.0
368	1650.0	1850.0	4.0	0.0	35.7	35.7
369	1700.0	1850.0	4.0	0.0	35.4	35.4
370	1750.0	1850.0	4.0	0.0	35.1	35.1
371	1800.0	1850.0	4.0	0.0	34.7	34.7
372	1850.0	1850.0	4.0	0.0	34.4	34.4
373	1900.0	1850.0	4.0	0.0	34.0	34.0
374	1950.0	1850.0	4.0	0.0	33.7	33.7
375	2000.0	1850.0	4.0	0.0	33.3	33.3
376	2050.0	1850.0	4.0	0.0	33.0	33.0
377	2100.0	1850.0	4.0	0.0	32.6	32.6
378	2150.0	1850.0	4.0	0.0	32.3	32.3
379	-500.0	1800.0	4.0	0.0	32.6	32.6
380	-450.0	1800.0	4.0	0.0	32.9	32.9
381	-400.0	1800.0	4.0	0.0	33.2	33.2
382	-350.0	1800.0	4.0	0.0	33.4	33.4
383	-300.0	1800.0	4.0	0.0	33.7	33.7
384	-250.0	1800.0	4.0	0.0	34.0	34.0
385	-200.0	1800.0	4.0	0.0	34.3	34.3
386	-150.0	1800.0	4.0	0.0	34.6	34.6
387	-100.0	1800.0	4.0	0.0	34.9	34.9
388	-50.0	1800.0	4.0	0.0	35.2	35.2
389	0.0	1800.0	4.0	0.0	35.5	35.5

390	50.0	1800.0	4.0	0.0	35.8	35.8
391	100.0	1800.0	4.0	0.0	36.1	36.1
392	150.0	1800.0	4.0	0.0	36.4	36.4
393	200.0	1800.0	4.0	0.0	36.6	36.6
394	250.0	1800.0	4.0	0.0	36.9	36.9
395	300.0	1800.0	4.0	0.0	37.1	37.1
396	350.0	1800.0	4.0	0.0	37.3	37.3
397	400.0	1800.0	4.0	0.0	37.4	37.4
398	450.0	1800.0	4.0	0.0	37.6	37.6
399	500.0	1800.0	4.0	0.0	37.7	37.7
400	550.0	1800.0	4.0	0.0	37.8	37.8
401	600.0	1800.0	4.0	0.0	37.9	37.9
402	650.0	1800.0	4.0	0.0	38.1	38.1
403	700.0	1800.0	4.0	0.0	38.2	38.2
404	750.0	1800.0	4.0	0.0	38.3	38.3
405	800.0	1800.0	4.0	0.0	38.4	38.4
406	850.0	1800.0	4.0	0.0	38.6	38.6
407	900.0	1800.0	4.0	0.0	38.7	38.7
408	950.0	1800.0	4.0	0.0	38.7	38.7
409	1000.0	1800.0	4.0	0.0	38.7	38.7
410	1050.0	1800.0	4.0	0.0	38.7	38.7
411	1100.0	1800.0	4.0	0.0	38.6	38.6
412	1150.0	1800.0	4.0	0.0	38.5	38.5
413	1200.0	1800.0	4.0	0.0	38.4	38.4
414	1250.0	1800.0	4.0	0.0	38.2	38.2
415	1300.0	1800.0	4.0	0.0	38.1	38.1
416	1350.0	1800.0	4.0	0.0	37.9	37.9
417	1400.0	1800.0	4.0	0.0	37.7	37.7
418	1450.0	1800.0	4.0	0.0	37.4	37.4
419	1500.0	1800.0	4.0	0.0	37.1	37.1
420	1550.0	1800.0	4.0	0.0	36.8	36.8
421	1600.0	1800.0	4.0	0.0	36.5	36.5
422	1650.0	1800.0	4.0	0.0	36.2	36.2
423	1700.0	1800.0	4.0	0.0	35.9	35.9
424	1750.0	1800.0	4.0	0.0	35.5	35.5
425	1800.0	1800.0	4.0	0.0	35.1	35.1
426	1850.0	1800.0	4.0	0.0	34.8	34.8
427	1900.0	1800.0	4.0	0.0	34.4	34.4
428	1950.0	1800.0	4.0	0.0	34.0	34.0
429	2000.0	1800.0	4.0	0.0	33.7	33.7
430	2050.0	1800.0	4.0	0.0	33.3	33.3
431	2100.0	1800.0	4.0	0.0	32.9	32.9
432	2150.0	1800.0	4.0	0.0	32.6	32.6
433	-500.0	1750.0	4.0	0.0	32.8	32.8
434	-450.0	1750.0	4.0	0.0	33.1	33.1

435	-400.0	1750.0	4.0	0.0	33.4	33.4
436	-350.0	1750.0	4.0	0.0	33.7	33.7
437	-300.0	1750.0	4.0	0.0	34.0	34.0
438	-250.0	1750.0	4.0	0.0	34.4	34.4
439	-200.0	1750.0	4.0	0.0	34.7	34.7
440	-150.0	1750.0	4.0	0.0	35.0	35.0
441	-100.0	1750.0	4.0	0.0	35.3	35.3
442	-50.0	1750.0	4.0	0.0	35.6	35.6
443	0.0	1750.0	4.0	0.0	36.0	36.0
444	50.0	1750.0	4.0	0.0	36.3	36.3
445	100.0	1750.0	4.0	0.0	36.6	36.6
446	150.0	1750.0	4.0	0.0	36.9	36.9
447	200.0	1750.0	4.0	0.0	37.1	37.1
448	250.0	1750.0	4.0	0.0	37.4	37.4
449	300.0	1750.0	4.0	0.0	37.6	37.6
450	350.0	1750.0	4.0	0.0	37.8	37.8
451	400.0	1750.0	4.0	0.0	38.0	38.0
452	450.0	1750.0	4.0	0.0	38.2	38.2
453	500.0	1750.0	4.0	0.0	38.3	38.3
454	550.0	1750.0	4.0	0.0	38.4	38.4
455	600.0	1750.0	4.0	0.0	38.5	38.5
456	650.0	1750.0	4.0	0.0	38.7	38.7
457	700.0	1750.0	4.0	0.0	38.8	38.8
458	750.0	1750.0	4.0	0.0	39.0	39.0
459	800.0	1750.0	4.0	0.0	39.1	39.1
460	850.0	1750.0	4.0	0.0	39.3	39.3
461	900.0	1750.0	4.0	0.0	39.4	39.4
462	950.0	1750.0	4.0	0.0	39.5	39.5
463	1000.0	1750.0	4.0	0.0	39.5	39.5
464	1050.0	1750.0	4.0	0.0	39.4	39.4
465	1100.0	1750.0	4.0	0.0	39.3	39.3
466	1150.0	1750.0	4.0	0.0	39.2	39.2
467	1200.0	1750.0	4.0	0.0	39.1	39.1
468	1250.0	1750.0	4.0	0.0	38.9	38.9
469	1300.0	1750.0	4.0	0.0	38.7	38.7
470	1350.0	1750.0	4.0	0.0	38.5	38.5
471	1400.0	1750.0	4.0	0.0	38.3	38.3
472	1450.0	1750.0	4.0	0.0	38.0	38.0
473	1500.0	1750.0	4.0	0.0	37.7	37.7
474	1550.0	1750.0	4.0	0.0	37.4	37.4
475	1600.0	1750.0	4.0	0.0	37.0	37.0
476	1650.0	1750.0	4.0	0.0	36.7	36.7
477	1700.0	1750.0	4.0	0.0	36.3	36.3
478	1750.0	1750.0	4.0	0.0	35.9	35.9
479	1800.0	1750.0	4.0	0.0	35.5	35.5

480	1850.0	1750.0	4.0	0.0	35.1	35.1
481	1900.0	1750.0	4.0	0.0	34.7	34.7
482	1950.0	1750.0	4.0	0.0	34.3	34.3
483	2000.0	1750.0	4.0	0.0	34.0	34.0
484	2050.0	1750.0	4.0	0.0	33.6	33.6
485	2100.0	1750.0	4.0	0.0	33.2	33.2
486	2150.0	1750.0	4.0	0.0	32.8	32.8
487	-500.0	1700.0	4.0	0.0	33.1	33.1
488	-450.0	1700.0	4.0	0.0	33.4	33.4
489	-400.0	1700.0	4.0	0.0	33.7	33.7
490	-350.0	1700.0	4.0	0.0	34.0	34.0
491	-300.0	1700.0	4.0	0.0	34.3	34.3
492	-250.0	1700.0	4.0	0.0	34.7	34.7
493	-200.0	1700.0	4.0	0.0	35.0	35.0
494	-150.0	1700.0	4.0	0.0	35.4	35.4
495	-100.0	1700.0	4.0	0.0	35.7	35.7
496	-50.0	1700.0	4.0	0.0	36.0	36.0
497	0.0	1700.0	4.0	0.0	36.4	36.4
498	50.0	1700.0	4.0	0.0	36.7	36.7
499	100.0	1700.0	4.0	0.0	37.1	37.1
500	150.0	1700.0	4.0	0.0	37.4	37.4
501	200.0	1700.0	4.0	0.0	37.7	37.7
502	250.0	1700.0	4.0	0.0	38.0	38.0
503	300.0	1700.0	4.0	0.0	38.2	38.2
504	350.0	1700.0	4.0	0.0	38.4	38.4
505	400.0	1700.0	4.0	0.0	38.6	38.6
506	450.0	1700.0	4.0	0.0	38.8	38.8
507	500.0	1700.0	4.0	0.0	38.9	38.9
508	550.0	1700.0	4.0	0.0	39.0	39.0
509	600.0	1700.0	4.0	0.0	39.1	39.1
510	650.0	1700.0	4.0	0.0	39.3	39.3
511	700.0	1700.0	4.0	0.0	39.4	39.4
512	750.0	1700.0	4.0	0.0	39.6	39.6
513	800.0	1700.0	4.0	0.0	39.9	39.9
514	850.0	1700.0	4.0	0.0	40.2	40.2
515	900.0	1700.0	4.0	0.0	40.4	40.4
516	950.0	1700.0	4.0	0.0	40.5	40.5
517	1000.0	1700.0	4.0	0.0	40.4	40.4
518	1050.0	1700.0	4.0	0.0	40.3	40.3
519	1100.0	1700.0	4.0	0.0	40.1	40.1
520	1150.0	1700.0	4.0	0.0	40.0	40.0
521	1200.0	1700.0	4.0	0.0	39.8	39.8
522	1250.0	1700.0	4.0	0.0	39.7	39.7
523	1300.0	1700.0	4.0	0.0	39.5	39.5
524	1350.0	1700.0	4.0	0.0	39.2	39.2

525	1400.0	1700.0	4.0	0.0	39.0	39.0
526	1450.0	1700.0	4.0	0.0	38.6	38.6
527	1500.0	1700.0	4.0	0.0	38.3	38.3
528	1550.0	1700.0	4.0	0.0	38.0	38.0
529	1600.0	1700.0	4.0	0.0	37.6	37.6
530	1650.0	1700.0	4.0	0.0	37.2	37.2
531	1700.0	1700.0	4.0	0.0	36.8	36.8
532	1750.0	1700.0	4.0	0.0	36.3	36.3
533	1800.0	1700.0	4.0	0.0	35.9	35.9
534	1850.0	1700.0	4.0	0.0	35.5	35.5
535	1900.0	1700.0	4.0	0.0	35.1	35.1
536	1950.0	1700.0	4.0	0.0	34.7	34.7
537	2000.0	1700.0	4.0	0.0	34.2	34.2
538	2050.0	1700.0	4.0	0.0	33.8	33.8
539	2100.0	1700.0	4.0	0.0	33.4	33.4
540	2150.0	1700.0	4.0	0.0	33.0	33.0
541	-500.0	1650.0	4.0	0.0	33.4	33.4
542	-450.0	1650.0	4.0	0.0	33.7	33.7
543	-400.0	1650.0	4.0	0.0	34.0	34.0
544	-350.0	1650.0	4.0	0.0	34.3	34.3
545	-300.0	1650.0	4.0	0.0	34.6	34.6
546	-250.0	1650.0	4.0	0.0	35.0	35.0
547	-200.0	1650.0	4.0	0.0	35.3	35.3
548	-150.0	1650.0	4.0	0.0	35.7	35.7
549	-100.0	1650.0	4.0	0.0	36.1	36.1
550	-50.0	1650.0	4.0	0.0	36.5	36.5
551	0.0	1650.0	4.0	0.0	36.8	36.8
552	50.0	1650.0	4.0	0.0	37.2	37.2
553	100.0	1650.0	4.0	0.0	37.6	37.6
554	150.0	1650.0	4.0	0.0	37.9	37.9
555	200.0	1650.0	4.0	0.0	38.3	38.3
556	250.0	1650.0	4.0	0.0	38.6	38.6
557	300.0	1650.0	4.0	0.0	38.9	38.9
558	350.0	1650.0	4.0	0.0	39.1	39.1
559	400.0	1650.0	4.0	0.0	39.3	39.3
560	450.0	1650.0	4.0	0.0	39.5	39.5
561	500.0	1650.0	4.0	0.0	39.6	39.6
562	550.0	1650.0	4.0	0.0	39.7	39.7
563	600.0	1650.0	4.0	0.0	39.8	39.8
564	650.0	1650.0	4.0	0.0	39.9	39.9
565	700.0	1650.0	4.0	0.0	40.1	40.1
566	750.0	1650.0	4.0	0.0	40.4	40.4
567	800.0	1650.0	4.0	0.0	40.7	40.7
568	850.0	1650.0	4.0	0.0	41.2	41.2
569	900.0	1650.0	4.0	0.0	41.7	41.7

570	950.0	1650.0	4.0	0.0	41.8	41.8
571	1000.0	1650.0	4.0	0.0	41.6	41.6
572	1050.0	1650.0	4.0	0.0	41.3	41.3
573	1100.0	1650.0	4.0	0.0	41.0	41.0
574	1150.0	1650.0	4.0	0.0	40.8	40.8
575	1200.0	1650.0	4.0	0.0	40.6	40.6
576	1250.0	1650.0	4.0	0.0	40.5	40.5
577	1300.0	1650.0	4.0	0.0	40.3	40.3
578	1350.0	1650.0	4.0	0.0	40.0	40.0
579	1400.0	1650.0	4.0	0.0	39.7	39.7
580	1450.0	1650.0	4.0	0.0	39.3	39.3
581	1500.0	1650.0	4.0	0.0	38.9	38.9
582	1550.0	1650.0	4.0	0.0	38.5	38.5
583	1600.0	1650.0	4.0	0.0	38.1	38.1
584	1650.0	1650.0	4.0	0.0	37.7	37.7
585	1700.0	1650.0	4.0	0.0	37.2	37.2
586	1750.0	1650.0	4.0	0.0	36.8	36.8
587	1800.0	1650.0	4.0	0.0	36.3	36.3
588	1850.0	1650.0	4.0	0.0	35.9	35.9
589	1900.0	1650.0	4.0	0.0	35.4	35.4
590	1950.0	1650.0	4.0	0.0	35.0	35.0
591	2000.0	1650.0	4.0	0.0	34.5	34.5
592	2050.0	1650.0	4.0	0.0	34.1	34.1
593	2100.0	1650.0	4.0	0.0	33.7	33.7
594	2150.0	1650.0	4.0	0.0	33.3	33.3
595	-500.0	1600.0	4.0	0.0	33.6	33.6
596	-450.0	1600.0	4.0	0.0	33.9	33.9
597	-400.0	1600.0	4.0	0.0	34.3	34.3
598	-350.0	1600.0	4.0	0.0	34.6	34.6
599	-300.0	1600.0	4.0	0.0	34.9	34.9
600	-250.0	1600.0	4.0	0.0	35.3	35.3
601	-200.0	1600.0	4.0	0.0	35.7	35.7
602	-150.0	1600.0	4.0	0.0	36.1	36.1
603	-100.0	1600.0	4.0	0.0	36.5	36.5
604	-50.0	1600.0	4.0	0.0	36.9	36.9
605	0.0	1600.0	4.0	0.0	37.3	37.3
606	50.0	1600.0	4.0	0.0	37.7	37.7
607	100.0	1600.0	4.0	0.0	38.1	38.1
608	150.0	1600.0	4.0	0.0	38.5	38.5
609	200.0	1600.0	4.0	0.0	38.9	38.9
610	250.0	1600.0	4.0	0.0	39.2	39.2
611	300.0	1600.0	4.0	0.0	39.6	39.6
612	350.0	1600.0	4.0	0.0	39.8	39.8
613	400.0	1600.0	4.0	0.0	40.0	40.0
614	450.0	1600.0	4.0	0.0	40.2	40.2

615	500.0	1600.0	4.0	0.0	40.3	40.3
616	550.0	1600.0	4.0	0.0	40.4	40.4
617	600.0	1600.0	4.0	0.0	40.5	40.5
618	650.0	1600.0	4.0	0.0	40.6	40.6
619	700.0	1600.0	4.0	0.0	40.7	40.7
620	750.0	1600.0	4.0	0.0	41.1	41.1
621	800.0	1600.0	4.0	0.0	41.7	41.7
622	850.0	1600.0	4.0	0.0	42.7	42.7
623	900.0	1600.0	4.0	0.0	43.8	43.8
624	950.0	1600.0	4.0	0.0	44.1	44.1
625	1000.0	1600.0	4.0	0.0	43.3	43.3
626	1050.0	1600.0	4.0	0.0	42.4	42.4
627	1100.0	1600.0	4.0	0.0	41.9	41.9
628	1150.0	1600.0	4.0	0.0	41.7	41.7
629	1200.0	1600.0	4.0	0.0	41.6	41.6
630	1250.0	1600.0	4.0	0.0	41.4	41.4
631	1300.0	1600.0	4.0	0.0	41.1	41.1
632	1350.0	1600.0	4.0	0.0	40.8	40.8
633	1400.0	1600.0	4.0	0.0	40.4	40.4
634	1450.0	1600.0	4.0	0.0	40.0	40.0
635	1500.0	1600.0	4.0	0.0	39.6	39.6
636	1550.0	1600.0	4.0	0.0	39.2	39.2
637	1600.0	1600.0	4.0	0.0	38.7	38.7
638	1650.0	1600.0	4.0	0.0	38.2	38.2
639	1700.0	1600.0	4.0	0.0	37.7	37.7
640	1750.0	1600.0	4.0	0.0	37.2	37.2
641	1800.0	1600.0	4.0	0.0	36.7	36.7
642	1850.0	1600.0	4.0	0.0	36.2	36.2
643	1900.0	1600.0	4.0	0.0	35.7	35.7
644	1950.0	1600.0	4.0	0.0	35.3	35.3
645	2000.0	1600.0	4.0	0.0	34.8	34.8
646	2050.0	1600.0	4.0	0.0	34.4	34.4
647	2100.0	1600.0	4.0	0.0	33.9	33.9
648	2150.0	1600.0	4.0	0.0	33.5	33.5
649	-500.0	1550.0	4.0	0.0	33.9	33.9
650	-450.0	1550.0	4.0	0.0	34.2	34.2
651	-400.0	1550.0	4.0	0.0	34.5	34.5
652	-350.0	1550.0	4.0	0.0	34.9	34.9
653	-300.0	1550.0	4.0	0.0	35.2	35.2
654	-250.0	1550.0	4.0	0.0	35.6	35.6
655	-200.0	1550.0	4.0	0.0	36.0	36.0
656	-150.0	1550.0	4.0	0.0	36.4	36.4
657	-100.0	1550.0	4.0	0.0	36.8	36.8
658	-50.0	1550.0	4.0	0.0	37.3	37.3
659	0.0	1550.0	4.0	0.0	37.7	37.7

660	50.0	1550.0	4.0	0.0	38.2	38.2
661	100.0	1550.0	4.0	0.0	38.7	38.7
662	150.0	1550.0	4.0	0.0	39.1	39.1
663	200.0	1550.0	4.0	0.0	39.6	39.6
664	250.0	1550.0	4.0	0.0	40.0	40.0
665	300.0	1550.0	4.0	0.0	40.3	40.3
666	350.0	1550.0	4.0	0.0	40.6	40.6
667	400.0	1550.0	4.0	0.0	40.8	40.8
668	450.0	1550.0	4.0	0.0	41.0	41.0
669	500.0	1550.0	4.0	0.0	41.1	41.1
670	550.0	1550.0	4.0	0.0	41.1	41.1
671	600.0	1550.0	4.0	0.0	41.2	41.2
672	650.0	1550.0	4.0	0.0	41.2	41.2
673	700.0	1550.0	4.0	0.0	41.4	41.4
674	750.0	1550.0	4.0	0.0	41.7	41.7
675	800.0	1550.0	4.0	0.0	42.6	42.6
676	850.0	1550.0	4.0	0.0	44.5	44.5
677	900.0	1550.0	4.0	0.0	48.2	48.2
678	950.0	1550.0	4.0	0.0	49.8	49.8
679	1000.0	1550.0	4.0	0.0	46.0	46.0
680	1050.0	1550.0	4.0	0.0	43.5	43.5
681	1100.0	1550.0	4.0	0.0	42.9	42.9
682	1150.0	1550.0	4.0	0.0	42.7	42.7
683	1200.0	1550.0	4.0	0.0	42.7	42.7
684	1250.0	1550.0	4.0	0.0	42.5	42.5
685	1300.0	1550.0	4.0	0.0	42.1	42.1
686	1350.0	1550.0	4.0	0.0	41.7	41.7
687	1400.0	1550.0	4.0	0.0	41.3	41.3
688	1450.0	1550.0	4.0	0.0	40.8	40.8
689	1500.0	1550.0	4.0	0.0	40.3	40.3
690	1550.0	1550.0	4.0	0.0	39.8	39.8
691	1600.0	1550.0	4.0	0.0	39.3	39.3
692	1650.0	1550.0	4.0	0.0	38.7	38.7
693	1700.0	1550.0	4.0	0.0	38.2	38.2
694	1750.0	1550.0	4.0	0.0	37.6	37.6
695	1800.0	1550.0	4.0	0.0	37.1	37.1
696	1850.0	1550.0	4.0	0.0	36.6	36.6
697	1900.0	1550.0	4.0	0.0	36.1	36.1
698	1950.0	1550.0	4.0	0.0	35.6	35.6
699	2000.0	1550.0	4.0	0.0	35.1	35.1
700	2050.0	1550.0	4.0	0.0	34.6	34.6
701	2100.0	1550.0	4.0	0.0	34.1	34.1
702	2150.0	1550.0	4.0	0.0	33.7	33.7
703	-500.0	1500.0	4.0	0.0	34.1	34.1
704	-450.0	1500.0	4.0	0.0	34.4	34.4

705	-400.0	1500.0	4.0	0.0	34.8	34.8
706	-350.0	1500.0	4.0	0.0	35.1	35.1
707	-300.0	1500.0	4.0	0.0	35.5	35.5
708	-250.0	1500.0	4.0	0.0	35.9	35.9
709	-200.0	1500.0	4.0	0.0	36.3	36.3
710	-150.0	1500.0	4.0	0.0	36.8	36.8
711	-100.0	1500.0	4.0	0.0	37.2	37.2
712	-50.0	1500.0	4.0	0.0	37.7	37.7
713	0.0	1500.0	4.0	0.0	38.2	38.2
714	50.0	1500.0	4.0	0.0	38.7	38.7
715	100.0	1500.0	4.0	0.0	39.2	39.2
716	150.0	1500.0	4.0	0.0	39.7	39.7
717	200.0	1500.0	4.0	0.0	40.2	40.2
718	250.0	1500.0	4.0	0.0	40.7	40.7
719	300.0	1500.0	4.0	0.0	41.1	41.1
720	350.0	1500.0	4.0	0.0	41.5	41.5
721	400.0	1500.0	4.0	0.0	41.7	41.7
722	450.0	1500.0	4.0	0.0	41.9	41.9
723	500.0	1500.0	4.0	0.0	42.0	42.0
724	550.0	1500.0	4.0	0.0	42.0	42.0
725	600.0	1500.0	4.0	0.0	41.9	41.9
726	650.0	1500.0	4.0	0.0	41.9	41.9
727	700.0	1500.0	4.0	0.0	42.0	42.0
728	750.0	1500.0	4.0	0.0	42.4	42.4
729	800.0	1500.0	4.0	0.0	43.2	43.2
730	850.0	1500.0	4.0	0.0	45.5	45.5
731	900.0	1500.0	4.0	0.0	55.1	55.1
732	950.0	1500.0	4.0	0.0	52.8	52.8
733	1000.0	1500.0	4.0	0.0	46.6	46.6
734	1050.0	1500.0	4.0	0.0	44.2	44.2
735	1100.0	1500.0	4.0	0.0	43.8	43.8
736	1150.0	1500.0	4.0	0.0	44.1	44.1
737	1200.0	1500.0	4.0	0.0	44.3	44.3
738	1250.0	1500.0	4.0	0.0	43.9	43.9
739	1300.0	1500.0	4.0	0.0	43.3	43.3
740	1350.0	1500.0	4.0	0.0	42.7	42.7
741	1400.0	1500.0	4.0	0.0	42.2	42.2
742	1450.0	1500.0	4.0	0.0	41.6	41.6
743	1500.0	1500.0	4.0	0.0	41.1	41.1
744	1550.0	1500.0	4.0	0.0	40.5	40.5
745	1600.0	1500.0	4.0	0.0	39.9	39.9
746	1650.0	1500.0	4.0	0.0	39.2	39.2
747	1700.0	1500.0	4.0	0.0	38.6	38.6
748	1750.0	1500.0	4.0	0.0	38.1	38.1
749	1800.0	1500.0	4.0	0.0	37.5	37.5

750	1850.0	1500.0	4.0	0.0	36.9	36.9
751	1900.0	1500.0	4.0	0.0	36.4	36.4
752	1950.0	1500.0	4.0	0.0	35.8	35.8
753	2000.0	1500.0	4.0	0.0	35.3	35.3
754	2050.0	1500.0	4.0	0.0	34.8	34.8
755	2100.0	1500.0	4.0	0.0	34.4	34.4
756	2150.0	1500.0	4.0	0.0	33.9	33.9
757	-500.0	1450.0	4.0	0.0	34.3	34.3
758	-450.0	1450.0	4.0	0.0	34.7	34.7
759	-400.0	1450.0	4.0	0.0	35.0	35.0
760	-350.0	1450.0	4.0	0.0	35.4	35.4
761	-300.0	1450.0	4.0	0.0	35.8	35.8
762	-250.0	1450.0	4.0	0.0	36.2	36.2
763	-200.0	1450.0	4.0	0.0	36.6	36.6
764	-150.0	1450.0	4.0	0.0	37.1	37.1
765	-100.0	1450.0	4.0	0.0	37.6	37.6
766	-50.0	1450.0	4.0	0.0	38.1	38.1
767	0.0	1450.0	4.0	0.0	38.6	38.6
768	50.0	1450.0	4.0	0.0	39.2	39.2
769	100.0	1450.0	4.0	0.0	39.8	39.8
770	150.0	1450.0	4.0	0.0	40.4	40.4
771	200.0	1450.0	4.0	0.0	41.0	41.0
772	250.0	1450.0	4.0	0.0	41.5	41.5
773	300.0	1450.0	4.0	0.0	42.1	42.1
774	350.0	1450.0	4.0	0.0	42.5	42.5
775	400.0	1450.0	4.0	0.0	42.8	42.8
776	450.0	1450.0	4.0	0.0	42.9	42.9
777	500.0	1450.0	4.0	0.0	43.0	43.0
778	550.0	1450.0	4.0	0.0	42.9	42.9
779	600.0	1450.0	4.0	0.0	42.8	42.8
780	650.0	1450.0	4.0	0.0	42.9	42.9
781	700.0	1450.0	4.0	0.0	47.3	47.3
782	750.0	1450.0	4.0	0.0	43.4	43.4
783	800.0	1450.0	4.0	0.0	43.6	43.6
784	850.0	1450.0	4.0	0.0	44.8	44.8
785	900.0	1450.0	4.0	0.0	46.3	46.3
786	950.0	1450.0	4.0	0.0	46.5	46.5
787	1000.0	1450.0	4.0	0.0	45.1	45.1
788	1050.0	1450.0	4.0	0.0	44.5	44.5
789	1100.0	1450.0	4.0	0.0	44.8	44.8
790	1150.0	1450.0	4.0	0.0	46.5	46.5
791	1200.0	1450.0	4.0	0.0	47.8	47.8
792	1250.0	1450.0	4.0	0.0	46.1	46.1
793	1300.0	1450.0	4.0	0.0	44.6	44.6
794	1350.0	1450.0	4.0	0.0	43.8	43.8

795	1400.0	1450.0	4.0	0.0	43.1	43.1
796	1450.0	1450.0	4.0	0.0	42.5	42.5
797	1500.0	1450.0	4.0	0.0	41.8	41.8
798	1550.0	1450.0	4.0	0.0	41.1	41.1
799	1600.0	1450.0	4.0	0.0	40.5	40.5
800	1650.0	1450.0	4.0	0.0	39.8	39.8
801	1700.0	1450.0	4.0	0.0	39.1	39.1
802	1750.0	1450.0	4.0	0.0	38.5	38.5
803	1800.0	1450.0	4.0	0.0	37.8	37.8
804	1850.0	1450.0	4.0	0.0	37.2	37.2
805	1900.0	1450.0	4.0	0.0	36.7	36.7
806	1950.0	1450.0	4.0	0.0	36.1	36.1
807	2000.0	1450.0	4.0	0.0	35.6	35.6
808	2050.0	1450.0	4.0	0.0	35.0	35.0
809	2100.0	1450.0	4.0	0.0	34.5	34.5
810	2150.0	1450.0	4.0	0.0	34.1	34.1
811	-500.0	1400.0	4.0	0.0	34.6	34.6
812	-450.0	1400.0	4.0	0.0	34.9	34.9
813	-400.0	1400.0	4.0	0.0	35.3	35.3
814	-350.0	1400.0	4.0	0.0	35.7	35.7
815	-300.0	1400.0	4.0	0.0	36.1	36.1
816	-250.0	1400.0	4.0	0.0	36.5	36.5
817	-200.0	1400.0	4.0	0.0	36.9	36.9
818	-150.0	1400.0	4.0	0.0	37.4	37.4
819	-100.0	1400.0	4.0	0.0	37.9	37.9
820	-50.0	1400.0	4.0	0.0	38.5	38.5
821	0.0	1400.0	4.0	0.0	39.1	39.1
822	50.0	1400.0	4.0	0.0	39.7	39.7
823	100.0	1400.0	4.0	0.0	40.4	40.4
824	150.0	1400.0	4.0	0.0	41.0	41.0
825	200.0	1400.0	4.0	0.0	41.7	41.7
826	250.0	1400.0	4.0	0.0	42.4	42.4
827	300.0	1400.0	4.0	0.0	43.1	43.1
828	350.0	1400.0	4.0	0.0	43.6	43.6
829	400.0	1400.0	4.0	0.0	44.0	44.0
830	450.0	1400.0	4.0	0.0	44.2	44.2
831	500.0	1400.0	4.0	0.0	46.0	46.0
832	550.0	1400.0	4.0	0.0	44.6	44.6
833	600.0	1400.0	4.0	0.0	43.7	43.7
834	650.0	1400.0	4.0	0.0	43.7	43.7
835	700.0	1400.0	4.0	0.0	44.7	44.7
836	750.0	1400.0	4.0	0.0	47.1	47.1
837	800.0	1400.0	4.0	0.0	46.7	46.7
838	850.0	1400.0	4.0	0.0	44.3	44.3
839	900.0	1400.0	4.0	0.0	44.8	44.8

840	950.0	1400.0	4.0	0.0	44.9	44.9
841	1000.0	1400.0	4.0	0.0	45.0	45.0
842	1050.0	1400.0	4.0	0.0	45.3	45.3
843	1100.0	1400.0	4.0	0.0	45.8	45.8
844	1150.0	1400.0	4.0	0.0	48.3	48.3
845	1200.0	1400.0	4.0	0.0	56.1	56.1
846	1250.0	1400.0	4.0	0.0	50.6	50.6
847	1300.0	1400.0	4.0	0.0	45.9	45.9
848	1350.0	1400.0	4.0	0.0	44.8	44.8
849	1400.0	1400.0	4.0	0.0	44.1	44.1
850	1450.0	1400.0	4.0	0.0	43.4	43.4
851	1500.0	1400.0	4.0	0.0	42.6	42.6
852	1550.0	1400.0	4.0	0.0	41.8	41.8
853	1600.0	1400.0	4.0	0.0	41.0	41.0
854	1650.0	1400.0	4.0	0.0	40.3	40.3
855	1700.0	1400.0	4.0	0.0	39.5	39.5
856	1750.0	1400.0	4.0	0.0	38.8	38.8
857	1800.0	1400.0	4.0	0.0	38.2	38.2
858	1850.0	1400.0	4.0	0.0	37.5	37.5
859	1900.0	1400.0	4.0	0.0	36.9	36.9
860	1950.0	1400.0	4.0	0.0	36.3	36.3
861	2000.0	1400.0	4.0	0.0	35.8	35.8
862	2050.0	1400.0	4.0	0.0	35.2	35.2
863	2100.0	1400.0	4.0	0.0	34.7	34.7
864	2150.0	1400.0	4.0	0.0	34.2	34.2
865	-500.0	1350.0	4.0	0.0	34.8	34.8
866	-450.0	1350.0	4.0	0.0	35.1	35.1
867	-400.0	1350.0	4.0	0.0	35.5	35.5
868	-350.0	1350.0	4.0	0.0	35.9	35.9
869	-300.0	1350.0	4.0	0.0	36.3	36.3
870	-250.0	1350.0	4.0	0.0	36.7	36.7
871	-200.0	1350.0	4.0	0.0	37.2	37.2
872	-150.0	1350.0	4.0	0.0	37.7	37.7
873	-100.0	1350.0	4.0	0.0	38.2	38.2
874	-50.0	1350.0	4.0	0.0	38.8	38.8
875	0.0	1350.0	4.0	0.0	39.5	39.5
876	50.0	1350.0	4.0	0.0	40.2	40.2
877	100.0	1350.0	4.0	0.0	40.9	40.9
878	150.0	1350.0	4.0	0.0	41.7	41.7
879	200.0	1350.0	4.0	0.0	42.5	42.5
880	250.0	1350.0	4.0	0.0	43.4	43.4
881	300.0	1350.0	4.0	0.0	44.2	44.2
882	350.0	1350.0	4.0	0.0	44.8	44.8
883	400.0	1350.0	4.0	0.0	45.3	45.3
884	450.0	1350.0	4.0	0.0	46.0	46.0

885	500.0	1350.0	4.0	0.0	45.9	45.9
886	550.0	1350.0	4.0	0.0	45.3	45.3
887	600.0	1350.0	4.0	0.0	44.7	44.7
888	650.0	1350.0	4.0	0.0	44.8	44.8
889	700.0	1350.0	4.0	0.0	44.3	44.3
890	750.0	1350.0	4.0	0.0	44.3	44.3
891	800.0	1350.0	4.0	0.0	44.1	44.1
892	850.0	1350.0	4.0	0.0	44.4	44.4
893	900.0	1350.0	4.0	0.0	44.8	44.8
894	950.0	1350.0	4.0	0.0	45.3	45.3
895	1000.0	1350.0	4.0	0.0	45.1	45.1
896	1050.0	1350.0	4.0	0.0	45.7	45.7
897	1100.0	1350.0	4.0	0.0	46.9	46.9
898	1150.0	1350.0	4.0	0.0	47.0	47.0
899	1200.0	1350.0	4.0	0.0	48.3	48.3
900	1250.0	1350.0	4.0	0.0	48.4	48.4
901	1300.0	1350.0	4.0	0.0	47.0	47.0
902	1350.0	1350.0	4.0	0.0	46.0	46.0
903	1400.0	1350.0	4.0	0.0	45.2	45.2
904	1450.0	1350.0	4.0	0.0	44.3	44.3
905	1500.0	1350.0	4.0	0.0	43.4	43.4
906	1550.0	1350.0	4.0	0.0	42.5	42.5
907	1600.0	1350.0	4.0	0.0	41.6	41.6
908	1650.0	1350.0	4.0	0.0	40.8	40.8
909	1700.0	1350.0	4.0	0.0	39.9	39.9
910	1750.0	1350.0	4.0	0.0	39.2	39.2
911	1800.0	1350.0	4.0	0.0	38.5	38.5
912	1850.0	1350.0	4.0	0.0	37.8	37.8
913	1900.0	1350.0	4.0	0.0	37.1	37.1
914	1950.0	1350.0	4.0	0.0	36.5	36.5
915	2000.0	1350.0	4.0	0.0	36.0	36.0
916	2050.0	1350.0	4.0	0.0	35.4	35.4
917	2100.0	1350.0	4.0	0.0	34.9	34.9
918	2150.0	1350.0	4.0	0.0	34.4	34.4
919	-500.0	1300.0	4.0	0.0	35.0	35.0
920	-450.0	1300.0	4.0	0.0	35.4	35.4
921	-400.0	1300.0	4.0	0.0	35.7	35.7
922	-350.0	1300.0	4.0	0.0	36.1	36.1
923	-300.0	1300.0	4.0	0.0	36.5	36.5
924	-250.0	1300.0	4.0	0.0	37.0	37.0
925	-200.0	1300.0	4.0	0.0	37.5	37.5
926	-150.0	1300.0	4.0	0.0	38.0	38.0
927	-100.0	1300.0	4.0	0.0	38.5	38.5
928	-50.0	1300.0	4.0	0.0	39.1	39.1
929	0.0	1300.0	4.0	0.0	39.8	39.8

930	50.0	1300.0	4.0	0.0	40.6	40.6
931	100.0	1300.0	4.0	0.0	41.4	41.4
932	150.0	1300.0	4.0	0.0	42.3	42.3
933	200.0	1300.0	4.0	0.0	43.3	43.3
934	250.0	1300.0	4.0	0.0	44.3	44.3
935	300.0	1300.0	4.0	0.0	45.3	45.3
936	350.0	1300.0	4.0	0.0	46.3	46.3
937	400.0	1300.0	4.0	0.0	46.9	46.9
938	450.0	1300.0	4.0	0.0	47.5	47.5
939	500.0	1300.0	4.0	0.0	47.2	47.2
940	550.0	1300.0	4.0	0.0	46.5	46.5
941	600.0	1300.0	4.0	0.0	45.7	45.7
942	650.0	1300.0	4.0	0.0	45.2	45.2
943	700.0	1300.0	4.0	0.0	44.4	44.4
944	750.0	1300.0	4.0	0.0	44.2	44.2
945	800.0	1300.0	4.0	0.0	45.3	45.3
946	850.0	1300.0	4.0	0.0	44.9	44.9
947	900.0	1300.0	4.0	0.0	44.9	44.9
948	950.0	1300.0	4.0	0.0	45.3	45.3
949	1000.0	1300.0	4.0	0.0	45.7	45.7
950	1050.0	1300.0	4.0	0.0	46.4	46.4
951	1100.0	1300.0	4.0	0.0	50.0	50.0
952	1150.0	1300.0	4.0	0.0	47.5	47.5
953	1200.0	1300.0	4.0	0.0	48.3	48.3
954	1250.0	1300.0	4.0	0.0	48.9	48.9
955	1300.0	1300.0	4.0	0.0	48.3	48.3
956	1350.0	1300.0	4.0	0.0	47.3	47.3
957	1400.0	1300.0	4.0	0.0	46.3	46.3
958	1450.0	1300.0	4.0	0.0	45.3	45.3
959	1500.0	1300.0	4.0	0.0	44.2	44.2
960	1550.0	1300.0	4.0	0.0	43.1	43.1
961	1600.0	1300.0	4.0	0.0	42.1	42.1
962	1650.0	1300.0	4.0	0.0	41.2	41.2
963	1700.0	1300.0	4.0	0.0	40.3	40.3
964	1750.0	1300.0	4.0	0.0	39.5	39.5
965	1800.0	1300.0	4.0	0.0	38.7	38.7
966	1850.0	1300.0	4.0	0.0	38.0	38.0
967	1900.0	1300.0	4.0	0.0	37.3	37.3
968	1950.0	1300.0	4.0	0.0	36.7	36.7
969	2000.0	1300.0	4.0	0.0	36.1	36.1
970	2050.0	1300.0	4.0	0.0	35.5	35.5
971	2100.0	1300.0	4.0	0.0	35.0	35.0
972	2150.0	1300.0	4.0	0.0	34.5	34.5
973	-500.0	1250.0	4.0	0.0	35.3	35.3
974	-450.0	1250.0	4.0	0.0	35.6	35.6

975	-400.0	1250.0	4.0	0.0	36.0	36.0
976	-350.0	1250.0	4.0	0.0	36.4	36.4
977	-300.0	1250.0	4.0	0.0	36.8	36.8
978	-250.0	1250.0	4.0	0.0	37.2	37.2
979	-200.0	1250.0	4.0	0.0	37.7	37.7
980	-150.0	1250.0	4.0	0.0	38.2	38.2
981	-100.0	1250.0	4.0	0.0	38.8	38.8
982	-50.0	1250.0	4.0	0.0	39.4	39.4
983	0.0	1250.0	4.0	0.0	40.1	40.1
984	50.0	1250.0	4.0	0.0	40.9	40.9
985	100.0	1250.0	4.0	0.0	41.8	41.8
986	150.0	1250.0	4.0	0.0	42.8	42.8
987	200.0	1250.0	4.0	0.0	44.0	44.0
988	250.0	1250.0	4.0	0.0	45.2	45.2
989	300.0	1250.0	4.0	0.0	46.5	46.5
990	350.0	1250.0	4.0	0.0	47.8	47.8
991	400.0	1250.0	4.0	0.0	48.8	48.8
992	450.0	1250.0	4.0	0.0	49.2	49.2
993	500.0	1250.0	4.0	0.0	48.9	48.9
994	550.0	1250.0	4.0	0.0	47.8	47.8
995	600.0	1250.0	4.0	0.0	46.7	46.7
996	650.0	1250.0	4.0	0.0	45.7	45.7
997	700.0	1250.0	4.0	0.0	44.9	44.9
998	750.0	1250.0	4.0	0.0	44.5	44.5
999	800.0	1250.0	4.0	0.0	44.5	44.5
1000	850.0	1250.0	4.0	0.0	44.8	44.8
1001	900.0	1250.0	4.0	0.0	46.9	46.9
1002	950.0	1250.0	4.0	0.0	47.8	47.8
1003	1000.0	1250.0	4.0	0.0	47.1	47.1
1004	1050.0	1250.0	4.0	0.0	48.0	48.0
1005	1100.0	1250.0	4.0	0.0	48.0	48.0
1006	1150.0	1250.0	4.0	0.0	48.9	48.9
1007	1200.0	1250.0	4.0	0.0	49.6	49.6
1008	1250.0	1250.0	4.0	0.0	50.3	50.3
1009	1300.0	1250.0	4.0	0.0	50.0	50.0
1010	1350.0	1250.0	4.0	0.0	48.8	48.8
1011	1400.0	1250.0	4.0	0.0	47.6	47.6
1012	1450.0	1250.0	4.0	0.0	46.2	46.2
1013	1500.0	1250.0	4.0	0.0	44.9	44.9
1014	1550.0	1250.0	4.0	0.0	43.7	43.7
1015	1600.0	1250.0	4.0	0.0	42.6	42.6
1016	1650.0	1250.0	4.0	0.0	41.6	41.6
1017	1700.0	1250.0	4.0	0.0	40.6	40.6
1018	1750.0	1250.0	4.0	0.0	39.7	39.7
1019	1800.0	1250.0	4.0	0.0	38.9	38.9

1020	1850.0	1250.0	4.0	0.0	38.2	38.2
1021	1900.0	1250.0	4.0	0.0	37.5	37.5
1022	1950.0	1250.0	4.0	0.0	36.8	36.8
1023	2000.0	1250.0	4.0	0.0	36.2	36.2
1024	2050.0	1250.0	4.0	0.0	35.6	35.6
1025	2100.0	1250.0	4.0	0.0	35.1	35.1
1026	2150.0	1250.0	4.0	0.0	34.6	34.6
1027	-500.0	1200.0	4.0	0.0	35.5	35.5
1028	-450.0	1200.0	4.0	0.0	35.8	35.8
1029	-400.0	1200.0	4.0	0.0	36.2	36.2
1030	-350.0	1200.0	4.0	0.0	36.6	36.6
1031	-300.0	1200.0	4.0	0.0	37.0	37.0
1032	-250.0	1200.0	4.0	0.0	37.4	37.4
1033	-200.0	1200.0	4.0	0.0	37.9	37.9
1034	-150.0	1200.0	4.0	0.0	38.4	38.4
1035	-100.0	1200.0	4.0	0.0	39.0	39.0
1036	-50.0	1200.0	4.0	0.0	39.6	39.6
1037	0.0	1200.0	4.0	0.0	40.4	40.4
1038	50.0	1200.0	4.0	0.0	41.2	41.2
1039	100.0	1200.0	4.0	0.0	42.2	42.2
1040	150.0	1200.0	4.0	0.0	43.3	43.3
1041	200.0	1200.0	4.0	0.0	44.5	44.5
1042	250.0	1200.0	4.0	0.0	46.0	46.0
1043	300.0	1200.0	4.0	0.0	47.6	47.6
1044	350.0	1200.0	4.0	0.0	49.3	49.3
1045	400.0	1200.0	4.0	0.0	50.8	50.8
1046	450.0	1200.0	4.0	0.0	51.4	51.4
1047	500.0	1200.0	4.0	0.0	50.6	50.6
1048	550.0	1200.0	4.0	0.0	49.2	49.2
1049	600.0	1200.0	4.0	0.0	47.6	47.6
1050	650.0	1200.0	4.0	0.0	46.9	46.9
1051	700.0	1200.0	4.0	0.0	45.3	45.3
1052	750.0	1200.0	4.0	0.0	46.0	46.0
1053	800.0	1200.0	4.0	0.0	44.5	44.5
1054	850.0	1200.0	4.0	0.0	45.0	45.0
1055	900.0	1200.0	4.0	0.0	46.8	46.8
1056	950.0	1200.0	4.0	0.0	52.0	52.0
1057	1000.0	1200.0	4.0	0.0	58.1	58.1
1058	1050.0	1200.0	4.0	0.0	48.7	48.7
1059	1100.0	1200.0	4.0	0.0	48.7	48.7
1060	1150.0	1200.0	4.0	0.0	49.9	49.9
1061	1200.0	1200.0	4.0	0.0	51.3	51.3
1062	1250.0	1200.0	4.0	0.0	52.3	52.3
1063	1300.0	1200.0	4.0	0.0	51.9	51.9
1064	1350.0	1200.0	4.0	0.0	50.4	50.4

1065	1400.0	1200.0	4.0	0.0	48.7	48.7
1066	1450.0	1200.0	4.0	0.0	47.0	47.0
1067	1500.0	1200.0	4.0	0.0	45.5	45.5
1068	1550.0	1200.0	4.0	0.0	44.1	44.1
1069	1600.0	1200.0	4.0	0.0	42.9	42.9
1070	1650.0	1200.0	4.0	0.0	41.8	41.8
1071	1700.0	1200.0	4.0	0.0	40.8	40.8
1072	1750.0	1200.0	4.0	0.0	39.9	39.9
1073	1800.0	1200.0	4.0	0.0	39.1	39.1
1074	1850.0	1200.0	4.0	0.0	38.3	38.3
1075	1900.0	1200.0	4.0	0.0	37.6	37.6
1076	1950.0	1200.0	4.0	0.0	36.9	36.9
1077	2000.0	1200.0	4.0	0.0	36.3	36.3
1078	2050.0	1200.0	4.0	0.0	35.7	35.7
1079	2100.0	1200.0	4.0	0.0	35.2	35.2
1080	2150.0	1200.0	4.0	0.0	34.6	34.6
1081	-500.0	1150.0	4.0	0.0	35.7	35.7
1082	-450.0	1150.0	4.0	0.0	36.1	36.1
1083	-400.0	1150.0	4.0	0.0	36.4	36.4
1084	-350.0	1150.0	4.0	0.0	36.8	36.8
1085	-300.0	1150.0	4.0	0.0	37.2	37.2
1086	-250.0	1150.0	4.0	0.0	37.6	37.6
1087	-200.0	1150.0	4.0	0.0	38.1	38.1
1088	-150.0	1150.0	4.0	0.0	38.6	38.6
1089	-100.0	1150.0	4.0	0.0	39.2	39.2
1090	-50.0	1150.0	4.0	0.0	39.8	39.8
1091	0.0	1150.0	4.0	0.0	40.5	40.5
1092	50.0	1150.0	4.0	0.0	41.4	41.4
1093	100.0	1150.0	4.0	0.0	42.4	42.4
1094	150.0	1150.0	4.0	0.0	43.5	43.5
1095	200.0	1150.0	4.0	0.0	44.9	44.9
1096	250.0	1150.0	4.0	0.0	46.4	46.4
1097	300.0	1150.0	4.0	0.0	48.3	48.3
1098	350.0	1150.0	4.0	0.0	50.4	50.4
1099	400.0	1150.0	4.0	0.0	52.4	52.4
1100	450.0	1150.0	4.0	0.0	53.2	53.2
1101	500.0	1150.0	4.0	0.0	52.1	52.1
1102	550.0	1150.0	4.0	0.0	50.1	50.1
1103	600.0	1150.0	4.0	0.0	48.8	48.8
1104	650.0	1150.0	4.0	0.0	46.7	46.7
1105	700.0	1150.0	4.0	0.0	45.5	45.5
1106	750.0	1150.0	4.0	0.0	44.9	44.9
1107	800.0	1150.0	4.0	0.0	44.5	44.5
1108	850.0	1150.0	4.0	0.0	44.9	44.9
1109	900.0	1150.0	4.0	0.0	47.8	47.8

1110	950.0	1150.0	4.0	0.0	49.6	49.6
1111	1000.0	1150.0	4.0	0.0	49.1	49.1
1112	1050.0	1150.0	4.0	0.0	48.1	48.1
1113	1100.0	1150.0	4.0	0.0	49.1	49.1
1114	1150.0	1150.0	4.0	0.0	50.7	50.7
1115	1200.0	1150.0	4.0	0.0	52.7	52.7
1116	1250.0	1150.0	4.0	0.0	54.1	54.1
1117	1300.0	1150.0	4.0	0.0	53.6	53.6
1118	1350.0	1150.0	4.0	0.0	51.7	51.7
1119	1400.0	1150.0	4.0	0.0	49.5	49.5
1120	1450.0	1150.0	4.0	0.0	47.5	47.5
1121	1500.0	1150.0	4.0	0.0	45.9	45.9
1122	1550.0	1150.0	4.0	0.0	44.4	44.4
1123	1600.0	1150.0	4.0	0.0	43.1	43.1
1124	1650.0	1150.0	4.0	0.0	42.0	42.0
1125	1700.0	1150.0	4.0	0.0	40.9	40.9
1126	1750.0	1150.0	4.0	0.0	40.0	40.0
1127	1800.0	1150.0	4.0	0.0	39.2	39.2
1128	1850.0	1150.0	4.0	0.0	38.4	38.4
1129	1900.0	1150.0	4.0	0.0	37.7	37.7
1130	1950.0	1150.0	4.0	0.0	37.0	37.0
1131	2000.0	1150.0	4.0	0.0	36.4	36.4
1132	2050.0	1150.0	4.0	0.0	35.8	35.8
1133	2100.0	1150.0	4.0	0.0	35.2	35.2
1134	2150.0	1150.0	4.0	0.0	34.6	34.6
1135	-500.0	1100.0	4.0	0.0	36.0	36.0
1136	-450.0	1100.0	4.0	0.0	36.3	36.3
1137	-400.0	1100.0	4.0	0.0	36.7	36.7
1138	-350.0	1100.0	4.0	0.0	37.0	37.0
1139	-300.0	1100.0	4.0	0.0	37.4	37.4
1140	-250.0	1100.0	4.0	0.0	37.8	37.8
1141	-200.0	1100.0	4.0	0.0	38.3	38.3
1142	-150.0	1100.0	4.0	0.0	38.7	38.7
1143	-100.0	1100.0	4.0	0.0	39.3	39.3
1144	-50.0	1100.0	4.0	0.0	39.9	39.9
1145	0.0	1100.0	4.0	0.0	40.6	40.6
1146	50.0	1100.0	4.0	0.0	41.5	41.5
1147	100.0	1100.0	4.0	0.0	42.4	42.4
1148	150.0	1100.0	4.0	0.0	43.6	43.6
1149	200.0	1100.0	4.0	0.0	44.9	44.9
1150	250.0	1100.0	4.0	0.0	46.5	46.5
1151	300.0	1100.0	4.0	0.0	48.4	48.4
1152	350.0	1100.0	4.0	0.0	50.5	50.5
1153	400.0	1100.0	4.0	0.0	52.5	52.5
1154	450.0	1100.0	4.0	0.0	53.3	53.3

1155	500.0	1100.0	4.0	0.0	52.2	52.2
1156	550.0	1100.0	4.0	0.0	50.7	50.7
1157	600.0	1100.0	4.0	0.0	48.2	48.2
1158	650.0	1100.0	4.0	0.0	46.7	46.7
1159	700.0	1100.0	4.0	0.0	45.4	45.4
1160	750.0	1100.0	4.0	0.0	44.7	44.7
1161	800.0	1100.0	4.0	0.0	44.4	44.4
1162	850.0	1100.0	4.0	0.0	44.7	44.7
1163	900.0	1100.0	4.0	0.0	47.3	47.3
1164	950.0	1100.0	4.0	0.0	47.1	47.1
1165	1000.0	1100.0	4.0	0.0	47.7	47.7
1166	1050.0	1100.0	4.0	0.0	48.6	48.6
1167	1100.0	1100.0	4.0	0.0	49.1	49.1
1168	1150.0	1100.0	4.0	0.0	51.0	51.0
1169	1200.0	1100.0	4.0	0.0	53.0	53.0
1170	1250.0	1100.0	4.0	0.0	54.4	54.4
1171	1300.0	1100.0	4.0	0.0	54.0	54.0
1172	1350.0	1100.0	4.0	0.0	52.0	52.0
1173	1400.0	1100.0	4.0	0.0	49.6	49.6
1174	1450.0	1100.0	4.0	0.0	47.6	47.6
1175	1500.0	1100.0	4.0	0.0	45.9	45.9
1176	1550.0	1100.0	4.0	0.0	44.4	44.4
1177	1600.0	1100.0	4.0	0.0	43.1	43.1
1178	1650.0	1100.0	4.0	0.0	42.0	42.0
1179	1700.0	1100.0	4.0	0.0	41.0	41.0
1180	1750.0	1100.0	4.0	0.0	40.0	40.0
1181	1800.0	1100.0	4.0	0.0	39.2	39.2
1182	1850.0	1100.0	4.0	0.0	38.4	38.4
1183	1900.0	1100.0	4.0	0.0	37.7	37.7
1184	1950.0	1100.0	4.0	0.0	37.0	37.0
1185	2000.0	1100.0	4.0	0.0	36.4	36.4
1186	2050.0	1100.0	4.0	0.0	35.8	35.8
1187	2100.0	1100.0	4.0	0.0	35.2	35.2
1188	2150.0	1100.0	4.0	0.0	34.7	34.7
1189	-500.0	1050.0	4.0	0.0	36.2	36.2
1190	-450.0	1050.0	4.0	0.0	36.5	36.5
1191	-400.0	1050.0	4.0	0.0	36.9	36.9
1192	-350.0	1050.0	4.0	0.0	37.2	37.2
1193	-300.0	1050.0	4.0	0.0	37.6	37.6
1194	-250.0	1050.0	4.0	0.0	38.0	38.0
1195	-200.0	1050.0	4.0	0.0	38.4	38.4
1196	-150.0	1050.0	4.0	0.0	38.9	38.9
1197	-100.0	1050.0	4.0	0.0	39.4	39.4
1198	-50.0	1050.0	4.0	0.0	40.0	40.0
1199	0.0	1050.0	4.0	0.0	40.7	40.7

1200	50.0	1050.0	4.0	0.0	41.4	41.4
1201	100.0	1050.0	4.0	0.0	42.4	42.4
1202	150.0	1050.0	4.0	0.0	43.4	43.4
1203	200.0	1050.0	4.0	0.0	44.7	44.7
1204	250.0	1050.0	4.0	0.0	46.1	46.1
1205	300.0	1050.0	4.0	0.0	47.8	47.8
1206	350.0	1050.0	4.0	0.0	49.5	49.5
1207	400.0	1050.0	4.0	0.0	51.1	51.1
1208	450.0	1050.0	4.0	0.0	51.7	51.7
1209	500.0	1050.0	4.0	0.0	50.8	50.8
1210	550.0	1050.0	4.0	0.0	49.3	49.3
1211	600.0	1050.0	4.0	0.0	47.6	47.6
1212	650.0	1050.0	4.0	0.0	46.2	46.2
1213	700.0	1050.0	4.0	0.0	45.1	45.1
1214	750.0	1050.0	4.0	0.0	44.5	44.5
1215	800.0	1050.0	4.0	0.0	44.2	44.2
1216	850.0	1050.0	4.0	0.0	44.3	44.3
1217	900.0	1050.0	4.0	0.0	45.1	45.1
1218	950.0	1050.0	4.0	0.0	46.5	46.5
1219	1000.0	1050.0	4.0	0.0	47.3	47.3
1220	1050.0	1050.0	4.0	0.0	47.4	47.4
1221	1100.0	1050.0	4.0	0.0	48.6	48.6
1222	1150.0	1050.0	4.0	0.0	50.3	50.3
1223	1200.0	1050.0	4.0	0.0	51.9	51.9
1224	1250.0	1050.0	4.0	0.0	52.9	52.9
1225	1300.0	1050.0	4.0	0.0	52.7	52.7
1226	1350.0	1050.0	4.0	0.0	51.3	51.3
1227	1400.0	1050.0	4.0	0.0	49.1	49.1
1228	1450.0	1050.0	4.0	0.0	47.3	47.3
1229	1500.0	1050.0	4.0	0.0	45.7	45.7
1230	1550.0	1050.0	4.0	0.0	44.2	44.2
1231	1600.0	1050.0	4.0	0.0	43.0	43.0
1232	1650.0	1050.0	4.0	0.0	41.9	41.9
1233	1700.0	1050.0	4.0	0.0	40.9	40.9
1234	1750.0	1050.0	4.0	0.0	40.0	40.0
1235	1800.0	1050.0	4.0	0.0	39.1	39.1
1236	1850.0	1050.0	4.0	0.0	38.4	38.4
1237	1900.0	1050.0	4.0	0.0	37.6	37.6
1238	1950.0	1050.0	4.0	0.0	37.0	37.0
1239	2000.0	1050.0	4.0	0.0	36.3	36.3
1240	2050.0	1050.0	4.0	0.0	35.7	35.7
1241	2100.0	1050.0	4.0	0.0	35.2	35.2
1242	2150.0	1050.0	4.0	0.0	34.6	34.6
1243	-500.0	1000.0	4.0	0.0	36.5	36.5
1244	-450.0	1000.0	4.0	0.0	36.8	36.8

1245	-400.0	1000.0	4.0	0.0	37.2	37.2
1246	-350.0	1000.0	4.0	0.0	37.5	37.5
1247	-300.0	1000.0	4.0	0.0	37.8	37.8
1248	-250.0	1000.0	4.0	0.0	38.2	38.2
1249	-200.0	1000.0	4.0	0.0	38.6	38.6
1250	-150.0	1000.0	4.0	0.0	39.0	39.0
1251	-100.0	1000.0	4.0	0.0	39.5	39.5
1252	-50.0	1000.0	4.0	0.0	40.0	40.0
1253	0.0	1000.0	4.0	0.0	40.6	40.6
1254	50.0	1000.0	4.0	0.0	41.3	41.3
1255	100.0	1000.0	4.0	0.0	42.2	42.2
1256	150.0	1000.0	4.0	0.0	43.1	43.1
1257	200.0	1000.0	4.0	0.0	44.2	44.2
1258	250.0	1000.0	4.0	0.0	45.4	45.4
1259	300.0	1000.0	4.0	0.0	46.8	46.8
1260	350.0	1000.0	4.0	0.0	48.1	48.1
1261	400.0	1000.0	4.0	0.0	49.1	49.1
1262	450.0	1000.0	4.0	0.0	49.4	49.4
1263	500.0	1000.0	4.0	0.0	49.0	49.0
1264	550.0	1000.0	4.0	0.0	47.9	47.9
1265	600.0	1000.0	4.0	0.0	46.7	46.7
1266	650.0	1000.0	4.0	0.0	45.6	45.6
1267	700.0	1000.0	4.0	0.0	44.7	44.7
1268	750.0	1000.0	4.0	0.0	44.1	44.1
1269	800.0	1000.0	4.0	0.0	43.9	43.9
1270	850.0	1000.0	4.0	0.0	43.9	43.9
1271	900.0	1000.0	4.0	0.0	44.6	44.6
1272	950.0	1000.0	4.0	0.0	46.1	46.1
1273	1000.0	1000.0	4.0	0.0	46.7	46.7
1274	1050.0	1000.0	4.0	0.0	46.8	46.8
1275	1100.0	1000.0	4.0	0.0	47.8	47.8
1276	1150.0	1000.0	4.0	0.0	49.1	49.1
1277	1200.0	1000.0	4.0	0.0	50.1	50.1
1278	1250.0	1000.0	4.0	0.0	50.7	50.7
1279	1300.0	1000.0	4.0	0.0	50.7	50.7
1280	1350.0	1000.0	4.0	0.0	49.4	49.4
1281	1400.0	1000.0	4.0	0.0	48.0	48.0
1282	1450.0	1000.0	4.0	0.0	46.5	46.5
1283	1500.0	1000.0	4.0	0.0	45.1	45.1
1284	1550.0	1000.0	4.0	0.0	43.9	43.9
1285	1600.0	1000.0	4.0	0.0	42.7	42.7
1286	1650.0	1000.0	4.0	0.0	41.7	41.7
1287	1700.0	1000.0	4.0	0.0	40.7	40.7
1288	1750.0	1000.0	4.0	0.0	39.8	39.8
1289	1800.0	1000.0	4.0	0.0	39.0	39.0

1290	1850.0	1000.0	4.0	0.0	38.3	38.3
1291	1900.0	1000.0	4.0	0.0	37.6	37.6
1292	1950.0	1000.0	4.0	0.0	36.9	36.9
1293	2000.0	1000.0	4.0	0.0	36.3	36.3
1294	2050.0	1000.0	4.0	0.0	35.7	35.7
1295	2100.0	1000.0	4.0	0.0	35.1	35.1
1296	2150.0	1000.0	4.0	0.0	34.6	34.6
1297	-500.0	950.0	4.0	0.0	36.8	36.8
1298	-450.0	950.0	4.0	0.0	37.1	37.1
1299	-400.0	950.0	4.0	0.0	37.4	37.4
1300	-350.0	950.0	4.0	0.0	37.8	37.8
1301	-300.0	950.0	4.0	0.0	38.1	38.1
1302	-250.0	950.0	4.0	0.0	38.4	38.4
1303	-200.0	950.0	4.0	0.0	38.8	38.8
1304	-150.0	950.0	4.0	0.0	39.1	39.1
1305	-100.0	950.0	4.0	0.0	39.6	39.6
1306	-50.0	950.0	4.0	0.0	40.0	40.0
1307	0.0	950.0	4.0	0.0	40.6	40.6
1308	50.0	950.0	4.0	0.0	41.2	41.2
1309	100.0	950.0	4.0	0.0	41.9	41.9
1310	150.0	950.0	4.0	0.0	42.7	42.7
1311	200.0	950.0	4.0	0.0	43.6	43.6
1312	250.0	950.0	4.0	0.0	44.6	44.6
1313	300.0	950.0	4.0	0.0	45.6	45.6
1314	350.0	950.0	4.0	0.0	46.5	46.5
1315	400.0	950.0	4.0	0.0	47.2	47.2
1316	450.0	950.0	4.0	0.0	47.4	47.4
1317	500.0	950.0	4.0	0.0	47.2	47.2
1318	550.0	950.0	4.0	0.0	46.5	46.5
1319	600.0	950.0	4.0	0.0	45.7	45.7
1320	650.0	950.0	4.0	0.0	44.8	44.8
1321	700.0	950.0	4.0	0.0	44.1	44.1
1322	750.0	950.0	4.0	0.0	43.7	43.7
1323	800.0	950.0	4.0	0.0	43.5	43.5
1324	850.0	950.0	4.0	0.0	43.5	43.5
1325	900.0	950.0	4.0	0.0	43.9	43.9
1326	950.0	950.0	4.0	0.0	45.7	45.7
1327	1000.0	950.0	4.0	0.0	46.3	46.3
1328	1050.0	950.0	4.0	0.0	48.3	48.3
1329	1100.0	950.0	4.0	0.0	46.8	46.8
1330	1150.0	950.0	4.0	0.0	47.6	47.6
1331	1200.0	950.0	4.0	0.0	48.2	48.2
1332	1250.0	950.0	4.0	0.0	48.6	48.6
1333	1300.0	950.0	4.0	0.0	48.4	48.4
1334	1350.0	950.0	4.0	0.0	47.7	47.7

1335	1400.0	950.0	4.0	0.0	46.7	46.7
1336	1450.0	950.0	4.0	0.0	45.6	45.6
1337	1500.0	950.0	4.0	0.0	44.4	44.4
1338	1550.0	950.0	4.0	0.0	43.3	43.3
1339	1600.0	950.0	4.0	0.0	42.3	42.3
1340	1650.0	950.0	4.0	0.0	41.3	41.3
1341	1700.0	950.0	4.0	0.0	40.4	40.4
1342	1750.0	950.0	4.0	0.0	39.6	39.6
1343	1800.0	950.0	4.0	0.0	38.8	38.8
1344	1850.0	950.0	4.0	0.0	38.1	38.1
1345	1900.0	950.0	4.0	0.0	37.4	37.4
1346	1950.0	950.0	4.0	0.0	36.8	36.8
1347	2000.0	950.0	4.0	0.0	36.2	36.2
1348	2050.0	950.0	4.0	0.0	35.6	35.6
1349	2100.0	950.0	4.0	0.0	35.0	35.0
1350	2150.0	950.0	4.0	0.0	34.5	34.5
1351	-500.0	900.0	4.0	0.0	37.1	37.1
1352	-450.0	900.0	4.0	0.0	37.4	37.4
1353	-400.0	900.0	4.0	0.0	37.8	37.8
1354	-350.0	900.0	4.0	0.0	38.1	38.1
1355	-300.0	900.0	4.0	0.0	38.4	38.4
1356	-250.0	900.0	4.0	0.0	38.7	38.7
1357	-200.0	900.0	4.0	0.0	39.0	39.0
1358	-150.0	900.0	4.0	0.0	39.3	39.3
1359	-100.0	900.0	4.0	0.0	39.7	39.7
1360	-50.0	900.0	4.0	0.0	40.0	40.0
1361	0.0	900.0	4.0	0.0	40.5	40.5
1362	50.0	900.0	4.0	0.0	41.0	41.0
1363	100.0	900.0	4.0	0.0	41.6	41.6
1364	150.0	900.0	4.0	0.0	42.3	42.3
1365	200.0	900.0	4.0	0.0	43.0	43.0
1366	250.0	900.0	4.0	0.0	43.8	43.8
1367	300.0	900.0	4.0	0.0	44.5	44.5
1368	350.0	900.0	4.0	0.0	45.2	45.2
1369	400.0	900.0	4.0	0.0	45.6	45.6
1370	450.0	900.0	4.0	0.0	45.8	45.8
1371	500.0	900.0	4.0	0.0	45.6	45.6
1372	550.0	900.0	4.0	0.0	45.2	45.2
1373	600.0	900.0	4.0	0.0	44.6	44.6
1374	650.0	900.0	4.0	0.0	44.0	44.0
1375	700.0	900.0	4.0	0.0	43.5	43.5
1376	750.0	900.0	4.0	0.0	43.2	43.2
1377	800.0	900.0	4.0	0.0	43.0	43.0
1378	850.0	900.0	4.0	0.0	43.0	43.0
1379	900.0	900.0	4.0	0.0	43.3	43.3

1380	950.0	900.0	4.0	0.0	45.6	45.6
1381	1000.0	900.0	4.0	0.0	46.2	46.2
1382	1050.0	900.0	4.0	0.0	45.1	45.1
1383	1100.0	900.0	4.0	0.0	45.5	45.5
1384	1150.0	900.0	4.0	0.0	46.1	46.1
1385	1200.0	900.0	4.0	0.0	46.6	46.6
1386	1250.0	900.0	4.0	0.0	46.8	46.8
1387	1300.0	900.0	4.0	0.0	46.7	46.7
1388	1350.0	900.0	4.0	0.0	46.2	46.2
1389	1400.0	900.0	4.0	0.0	45.4	45.4
1390	1450.0	900.0	4.0	0.0	44.6	44.6
1391	1500.0	900.0	4.0	0.0	43.6	43.6
1392	1550.0	900.0	4.0	0.0	42.7	42.7
1393	1600.0	900.0	4.0	0.0	41.8	41.8
1394	1650.0	900.0	4.0	0.0	40.9	40.9
1395	1700.0	900.0	4.0	0.0	40.1	40.1
1396	1750.0	900.0	4.0	0.0	39.3	39.3
1397	1800.0	900.0	4.0	0.0	38.6	38.6
1398	1850.0	900.0	4.0	0.0	37.9	37.9
1399	1900.0	900.0	4.0	0.0	37.2	37.2
1400	1950.0	900.0	4.0	0.0	36.6	36.6
1401	2000.0	900.0	4.0	0.0	36.0	36.0
1402	2050.0	900.0	4.0	0.0	35.5	35.5
1403	2100.0	900.0	4.0	0.0	34.9	34.9
1404	2150.0	900.0	4.0	0.0	34.4	34.4
1405	-500.0	850.0	4.0	0.0	37.5	37.5
1406	-450.0	850.0	4.0	0.0	37.8	37.8
1407	-400.0	850.0	4.0	0.0	38.1	38.1
1408	-350.0	850.0	4.0	0.0	38.4	38.4
1409	-300.0	850.0	4.0	0.0	38.7	38.7
1410	-250.0	850.0	4.0	0.0	39.0	39.0
1411	-200.0	850.0	4.0	0.0	39.2	39.2
1412	-150.0	850.0	4.0	0.0	39.5	39.5
1413	-100.0	850.0	4.0	0.0	39.8	39.8
1414	-50.0	850.0	4.0	0.0	40.1	40.1
1415	0.0	850.0	4.0	0.0	40.5	40.5
1416	50.0	850.0	4.0	0.0	40.9	40.9
1417	100.0	850.0	4.0	0.0	41.3	41.3
1418	150.0	850.0	4.0	0.0	41.8	41.8
1419	200.0	850.0	4.0	0.0	42.4	42.4
1420	250.0	850.0	4.0	0.0	43.0	43.0
1421	300.0	850.0	4.0	0.0	43.5	43.5
1422	350.0	850.0	4.0	0.0	44.0	44.0
1423	400.0	850.0	4.0	0.0	44.3	44.3
1424	450.0	850.0	4.0	0.0	44.4	44.4

1425	500.0	850.0	4.0	0.0	44.3	44.3
1426	550.0	850.0	4.0	0.0	44.0	44.0
1427	600.0	850.0	4.0	0.0	43.6	43.6
1428	650.0	850.0	4.0	0.0	43.2	43.2
1429	700.0	850.0	4.0	0.0	42.9	42.9
1430	750.0	850.0	4.0	0.0	42.6	42.6
1431	800.0	850.0	4.0	0.0	42.5	42.5
1432	850.0	850.0	4.0	0.0	42.5	42.5
1433	900.0	850.0	4.0	0.0	42.7	42.7
1434	950.0	850.0	4.0	0.0	43.1	43.1
1435	1000.0	850.0	4.0	0.0	43.5	43.5
1436	1050.0	850.0	4.0	0.0	43.9	43.9
1437	1100.0	850.0	4.0	0.0	44.4	44.4
1438	1150.0	850.0	4.0	0.0	44.8	44.8
1439	1200.0	850.0	4.0	0.0	45.1	45.1
1440	1250.0	850.0	4.0	0.0	45.3	45.3
1441	1300.0	850.0	4.0	0.0	45.2	45.2
1442	1350.0	850.0	4.0	0.0	44.8	44.8
1443	1400.0	850.0	4.0	0.0	44.2	44.2
1444	1450.0	850.0	4.0	0.0	43.6	43.6
1445	1500.0	850.0	4.0	0.0	42.8	42.8
1446	1550.0	850.0	4.0	0.0	42.0	42.0
1447	1600.0	850.0	4.0	0.0	41.2	41.2
1448	1650.0	850.0	4.0	0.0	40.4	40.4
1449	1700.0	850.0	4.0	0.0	39.7	39.7
1450	1750.0	850.0	4.0	0.0	39.0	39.0
1451	1800.0	850.0	4.0	0.0	38.3	38.3
1452	1850.0	850.0	4.0	0.0	37.7	37.7
1453	1900.0	850.0	4.0	0.0	37.0	37.0
1454	1950.0	850.0	4.0	0.0	36.4	36.4
1455	2000.0	850.0	4.0	0.0	35.9	35.9
1456	2050.0	850.0	4.0	0.0	35.3	35.3
1457	2100.0	850.0	4.0	0.0	34.8	34.8
1458	2150.0	850.0	4.0	0.0	34.3	34.3
1459	-500.0	800.0	4.0	0.0	37.9	37.9
1460	-450.0	800.0	4.0	0.0	38.2	38.2
1461	-400.0	800.0	4.0	0.0	38.5	38.5
1462	-350.0	800.0	4.0	0.0	38.8	38.8
1463	-300.0	800.0	4.0	0.0	39.1	39.1
1464	-250.0	800.0	4.0	0.0	39.3	39.3
1465	-200.0	800.0	4.0	0.0	39.6	39.6
1466	-150.0	800.0	4.0	0.0	39.8	39.8
1467	-100.0	800.0	4.0	0.0	40.0	40.0
1468	-50.0	800.0	4.0	0.0	40.2	40.2
1469	0.0	800.0	4.0	0.0	40.5	40.5

1470	50.0	800.0	4.0	0.0	40.8	40.8
1471	100.0	800.0	4.0	0.0	41.1	41.1
1472	150.0	800.0	4.0	0.0	41.5	41.5
1473	200.0	800.0	4.0	0.0	41.9	41.9
1474	250.0	800.0	4.0	0.0	42.3	42.3
1475	300.0	800.0	4.0	0.0	42.7	42.7
1476	350.0	800.0	4.0	0.0	43.0	43.0
1477	400.0	800.0	4.0	0.0	43.2	43.2
1478	450.0	800.0	4.0	0.0	43.3	43.3
1479	500.0	800.0	4.0	0.0	43.2	43.2
1480	550.0	800.0	4.0	0.0	43.0	43.0
1481	600.0	800.0	4.0	0.0	42.8	42.8
1482	650.0	800.0	4.0	0.0	42.5	42.5
1483	700.0	800.0	4.0	0.0	42.2	42.2
1484	750.0	800.0	4.0	0.0	42.1	42.1
1485	800.0	800.0	4.0	0.0	42.0	42.0
1486	850.0	800.0	4.0	0.0	42.0	42.0
1487	900.0	800.0	4.0	0.0	42.1	42.1
1488	950.0	800.0	4.0	0.0	42.4	42.4
1489	1000.0	800.0	4.0	0.0	42.7	42.7
1490	1050.0	800.0	4.0	0.0	43.0	43.0
1491	1100.0	800.0	4.0	0.0	43.4	43.4
1492	1150.0	800.0	4.0	0.0	43.7	43.7
1493	1200.0	800.0	4.0	0.0	43.9	43.9
1494	1250.0	800.0	4.0	0.0	44.0	44.0
1495	1300.0	800.0	4.0	0.0	43.9	43.9
1496	1350.0	800.0	4.0	0.0	43.6	43.6
1497	1400.0	800.0	4.0	0.0	43.2	43.2
1498	1450.0	800.0	4.0	0.0	42.6	42.6
1499	1500.0	800.0	4.0	0.0	42.0	42.0
1500	1550.0	800.0	4.0	0.0	41.3	41.3
1501	1600.0	800.0	4.0	0.0	40.6	40.6
1502	1650.0	800.0	4.0	0.0	40.0	40.0
1503	1700.0	800.0	4.0	0.0	39.3	39.3
1504	1750.0	800.0	4.0	0.0	38.6	38.6
1505	1800.0	800.0	4.0	0.0	38.0	38.0
1506	1850.0	800.0	4.0	0.0	37.4	37.4
1507	1900.0	800.0	4.0	0.0	36.8	36.8
1508	1950.0	800.0	4.0	0.0	36.2	36.2
1509	2000.0	800.0	4.0	0.0	35.7	35.7
1510	2050.0	800.0	4.0	0.0	35.2	35.2
1511	2100.0	800.0	4.0	0.0	34.7	34.7
1512	2150.0	800.0	4.0	0.0	34.2	34.2
1513	-500.0	750.0	4.0	0.0	38.3	38.3
1514	-450.0	750.0	4.0	0.0	38.7	38.7

1515	-400.0	750.0	4.0	0.0	39.0	39.0
1516	-350.0	750.0	4.0	0.0	39.3	39.3
1517	-300.0	750.0	4.0	0.0	39.6	39.6
1518	-250.0	750.0	4.0	0.0	39.8	39.8
1519	-200.0	750.0	4.0	0.0	40.0	40.0
1520	-150.0	750.0	4.0	0.0	40.1	40.1
1521	-100.0	750.0	4.0	0.0	40.3	40.3
1522	-50.0	750.0	4.0	0.0	40.4	40.4
1523	0.0	750.0	4.0	0.0	40.5	40.5
1524	50.0	750.0	4.0	0.0	40.7	40.7
1525	100.0	750.0	4.0	0.0	40.9	40.9
1526	150.0	750.0	4.0	0.0	41.2	41.2
1527	200.0	750.0	4.0	0.0	41.4	41.4
1528	250.0	750.0	4.0	0.0	41.7	41.7
1529	300.0	750.0	4.0	0.0	42.0	42.0
1530	350.0	750.0	4.0	0.0	42.2	42.2
1531	400.0	750.0	4.0	0.0	42.3	42.3
1532	450.0	750.0	4.0	0.0	42.4	42.4
1533	500.0	750.0	4.0	0.0	42.3	42.3
1534	550.0	750.0	4.0	0.0	42.2	42.2
1535	600.0	750.0	4.0	0.0	42.0	42.0
1536	650.0	750.0	4.0	0.0	41.8	41.8
1537	700.0	750.0	4.0	0.0	41.6	41.6
1538	750.0	750.0	4.0	0.0	41.5	41.5
1539	800.0	750.0	4.0	0.0	41.4	41.4
1540	850.0	750.0	4.0	0.0	41.5	41.5
1541	900.0	750.0	4.0	0.0	41.6	41.6
1542	950.0	750.0	4.0	0.0	41.7	41.7
1543	1000.0	750.0	4.0	0.0	42.0	42.0
1544	1050.0	750.0	4.0	0.0	42.2	42.2
1545	1100.0	750.0	4.0	0.0	42.5	42.5
1546	1150.0	750.0	4.0	0.0	42.7	42.7
1547	1200.0	750.0	4.0	0.0	42.9	42.9
1548	1250.0	750.0	4.0	0.0	42.9	42.9
1549	1300.0	750.0	4.0	0.0	42.8	42.8
1550	1350.0	750.0	4.0	0.0	42.6	42.6
1551	1400.0	750.0	4.0	0.0	42.2	42.2
1552	1450.0	750.0	4.0	0.0	41.8	41.8
1553	1500.0	750.0	4.0	0.0	41.3	41.3
1554	1550.0	750.0	4.0	0.0	40.7	40.7
1555	1600.0	750.0	4.0	0.0	40.1	40.1
1556	1650.0	750.0	4.0	0.0	39.5	39.5
1557	1700.0	750.0	4.0	0.0	38.8	38.8
1558	1750.0	750.0	4.0	0.0	38.2	38.2
1559	1800.0	750.0	4.0	0.0	37.7	37.7

1560	1850.0	750.0	4.0	0.0	37.1	37.1
1561	1900.0	750.0	4.0	0.0	36.5	36.5
1562	1950.0	750.0	4.0	0.0	36.0	36.0
1563	2000.0	750.0	4.0	0.0	35.5	35.5
1564	2050.0	750.0	4.0	0.0	35.0	35.0
1565	2100.0	750.0	4.0	0.0	34.5	34.5
1566	2150.0	750.0	4.0	0.0	34.0	34.0
1567	-500.0	700.0	4.0	0.0	38.8	38.8
1568	-450.0	700.0	4.0	0.0	39.2	39.2
1569	-400.0	700.0	4.0	0.0	39.6	39.6
1570	-350.0	700.0	4.0	0.0	39.9	39.9
1571	-300.0	700.0	4.0	0.0	40.1	40.1
1572	-250.0	700.0	4.0	0.0	40.3	40.3
1573	-200.0	700.0	4.0	0.0	40.5	40.5
1574	-150.0	700.0	4.0	0.0	40.6	40.6
1575	-100.0	700.0	4.0	0.0	40.6	40.6
1576	-50.0	700.0	4.0	0.0	40.7	40.7
1577	0.0	700.0	4.0	0.0	40.7	40.7
1578	50.0	700.0	4.0	0.0	40.8	40.8
1579	100.0	700.0	4.0	0.0	40.9	40.9
1580	150.0	700.0	4.0	0.0	41.0	41.0
1581	200.0	700.0	4.0	0.0	41.1	41.1
1582	250.0	700.0	4.0	0.0	41.3	41.3
1583	300.0	700.0	4.0	0.0	41.4	41.4
1584	350.0	700.0	4.0	0.0	41.5	41.5
1585	400.0	700.0	4.0	0.0	41.6	41.6
1586	450.0	700.0	4.0	0.0	41.6	41.6
1587	500.0	700.0	4.0	0.0	41.6	41.6
1588	550.0	700.0	4.0	0.0	41.5	41.5
1589	600.0	700.0	4.0	0.0	41.3	41.3
1590	650.0	700.0	4.0	0.0	41.2	41.2
1591	700.0	700.0	4.0	0.0	41.1	41.1
1592	750.0	700.0	4.0	0.0	41.0	41.0
1593	800.0	700.0	4.0	0.0	40.9	40.9
1594	850.0	700.0	4.0	0.0	40.9	40.9
1595	900.0	700.0	4.0	0.0	41.0	41.0
1596	950.0	700.0	4.0	0.0	41.1	41.1
1597	1000.0	700.0	4.0	0.0	41.3	41.3
1598	1050.0	700.0	4.0	0.0	41.5	41.5
1599	1100.0	700.0	4.0	0.0	41.7	41.7
1600	1150.0	700.0	4.0	0.0	41.8	41.8
1601	1200.0	700.0	4.0	0.0	42.0	42.0
1602	1250.0	700.0	4.0	0.0	42.0	42.0
1603	1300.0	700.0	4.0	0.0	41.9	41.9
1604	1350.0	700.0	4.0	0.0	41.8	41.8

1605	1400.0	700.0	4.0	0.0	41.5	41.5
1606	1450.0	700.0	4.0	0.0	41.1	41.1
1607	1500.0	700.0	4.0	0.0	40.6	40.6
1608	1550.0	700.0	4.0	0.0	40.1	40.1
1609	1600.0	700.0	4.0	0.0	39.5	39.5
1610	1650.0	700.0	4.0	0.0	39.0	39.0
1611	1700.0	700.0	4.0	0.0	38.4	38.4
1612	1750.0	700.0	4.0	0.0	37.9	37.9
1613	1800.0	700.0	4.0	0.0	37.3	37.3
1614	1850.0	700.0	4.0	0.0	36.8	36.8
1615	1900.0	700.0	4.0	0.0	36.2	36.2
1616	1950.0	700.0	4.0	0.0	35.7	35.7
1617	2000.0	700.0	4.0	0.0	35.2	35.2
1618	2050.0	700.0	4.0	0.0	34.8	34.8
1619	2100.0	700.0	4.0	0.0	34.3	34.3
1620	2150.0	700.0	4.0	0.0	33.8	33.8
1621	-500.0	650.0	4.0	0.0	39.4	39.4
1622	-450.0	650.0	4.0	0.0	39.8	39.8
1623	-400.0	650.0	4.0	0.0	40.2	40.2
1624	-350.0	650.0	4.0	0.0	40.5	40.5
1625	-300.0	650.0	4.0	0.0	40.8	40.8
1626	-250.0	650.0	4.0	0.0	41.0	41.0
1627	-200.0	650.0	4.0	0.0	41.1	41.1
1628	-150.0	650.0	4.0	0.0	41.1	41.1
1629	-100.0	650.0	4.0	0.0	41.1	41.1
1630	-50.0	650.0	4.0	0.0	41.1	41.1
1631	0.0	650.0	4.0	0.0	41.0	41.0
1632	50.0	650.0	4.0	0.0	41.0	41.0
1633	100.0	650.0	4.0	0.0	40.9	40.9
1634	150.0	650.0	4.0	0.0	40.9	40.9
1635	200.0	650.0	4.0	0.0	40.9	40.9
1636	250.0	650.0	4.0	0.0	40.9	40.9
1637	300.0	650.0	4.0	0.0	41.0	41.0
1638	350.0	650.0	4.0	0.0	41.0	41.0
1639	400.0	650.0	4.0	0.0	41.0	41.0
1640	450.0	650.0	4.0	0.0	41.0	41.0
1641	500.0	650.0	4.0	0.0	40.9	40.9
1642	550.0	650.0	4.0	0.0	40.9	40.9
1643	600.0	650.0	4.0	0.0	40.7	40.7
1644	650.0	650.0	4.0	0.0	40.6	40.6
1645	700.0	650.0	4.0	0.0	40.5	40.5
1646	750.0	650.0	4.0	0.0	40.5	40.5
1647	800.0	650.0	4.0	0.0	40.4	40.4
1648	850.0	650.0	4.0	0.0	40.4	40.4
1649	900.0	650.0	4.0	0.0	40.5	40.5

1650	950.0	650.0	4.0	0.0	40.6	40.6
1651	1000.0	650.0	4.0	0.0	40.7	40.7
1652	1050.0	650.0	4.0	0.0	40.8	40.8
1653	1100.0	650.0	4.0	0.0	41.0	41.0
1654	1150.0	650.0	4.0	0.0	41.1	41.1
1655	1200.0	650.0	4.0	0.0	41.2	41.2
1656	1250.0	650.0	4.0	0.0	41.3	41.3
1657	1300.0	650.0	4.0	0.0	41.3	41.3
1658	1350.0	650.0	4.0	0.0	41.2	41.2
1659	1400.0	650.0	4.0	0.0	41.0	41.0
1660	1450.0	650.0	4.0	0.0	40.6	40.6
1661	1500.0	650.0	4.0	0.0	40.1	40.1
1662	1550.0	650.0	4.0	0.0	39.6	39.6
1663	1600.0	650.0	4.0	0.0	39.0	39.0
1664	1650.0	650.0	4.0	0.0	38.5	38.5
1665	1700.0	650.0	4.0	0.0	38.0	38.0
1666	1750.0	650.0	4.0	0.0	37.5	37.5
1667	1800.0	650.0	4.0	0.0	36.9	36.9
1668	1850.0	650.0	4.0	0.0	36.4	36.4
1669	1900.0	650.0	4.0	0.0	36.0	36.0
1670	1950.0	650.0	4.0	0.0	35.5	35.5
1671	2000.0	650.0	4.0	0.0	35.0	35.0
1672	2050.0	650.0	4.0	0.0	34.5	34.5
1673	2100.0	650.0	4.0	0.0	34.1	34.1
1674	2150.0	650.0	4.0	0.0	33.7	33.7
1675	-500.0	600.0	4.0	0.0	39.9	39.9
1676	-450.0	600.0	4.0	0.0	40.4	40.4
1677	-400.0	600.0	4.0	0.0	40.9	40.9
1678	-350.0	600.0	4.0	0.0	41.3	41.3
1679	-300.0	600.0	4.0	0.0	41.6	41.6
1680	-250.0	600.0	4.0	0.0	41.8	41.8
1681	-200.0	600.0	4.0	0.0	41.9	41.9
1682	-150.0	600.0	4.0	0.0	41.9	41.9
1683	-100.0	600.0	4.0	0.0	41.8	41.8
1684	-50.0	600.0	4.0	0.0	41.6	41.6
1685	0.0	600.0	4.0	0.0	41.4	41.4
1686	50.0	600.0	4.0	0.0	41.2	41.2
1687	100.0	600.0	4.0	0.0	41.1	41.1
1688	150.0	600.0	4.0	0.0	40.9	40.9
1689	200.0	600.0	4.0	0.0	40.8	40.8
1690	250.0	600.0	4.0	0.0	40.7	40.7
1691	300.0	600.0	4.0	0.0	40.7	40.7
1692	350.0	600.0	4.0	0.0	40.6	40.6
1693	400.0	600.0	4.0	0.0	40.6	40.6
1694	450.0	600.0	4.0	0.0	40.5	40.5

1695	500.0	600.0	4.0	0.0	40.4	40.4
1696	550.0	600.0	4.0	0.0	40.3	40.3
1697	600.0	600.0	4.0	0.0	40.2	40.2
1698	650.0	600.0	4.0	0.0	40.1	40.1
1699	700.0	600.0	4.0	0.0	40.0	40.0
1700	750.0	600.0	4.0	0.0	40.0	40.0
1701	800.0	600.0	4.0	0.0	39.9	39.9
1702	850.0	600.0	4.0	0.0	39.9	39.9
1703	900.0	600.0	4.0	0.0	40.0	40.0
1704	950.0	600.0	4.0	0.0	40.0	40.0
1705	1000.0	600.0	4.0	0.0	40.1	40.1
1706	1050.0	600.0	4.0	0.0	40.2	40.2
1707	1100.0	600.0	4.0	0.0	40.3	40.3
1708	1150.0	600.0	4.0	0.0	40.4	40.4
1709	1200.0	600.0	4.0	0.0	40.6	40.6
1710	1250.0	600.0	4.0	0.0	40.8	40.8
1711	1300.0	600.0	4.0	0.0	41.2	41.2
1712	1350.0	600.0	4.0	0.0	41.4	41.4
1713	1400.0	600.0	4.0	0.0	41.2	41.2
1714	1450.0	600.0	4.0	0.0	40.4	40.4
1715	1500.0	600.0	4.0	0.0	39.7	39.7
1716	1550.0	600.0	4.0	0.0	39.1	39.1
1717	1600.0	600.0	4.0	0.0	38.6	38.6
1718	1650.0	600.0	4.0	0.0	38.0	38.0
1719	1700.0	600.0	4.0	0.0	37.6	37.6
1720	1750.0	600.0	4.0	0.0	37.1	37.1
1721	1800.0	600.0	4.0	0.0	36.6	36.6
1722	1850.0	600.0	4.0	0.0	36.1	36.1
1723	1900.0	600.0	4.0	0.0	35.6	35.6
1724	1950.0	600.0	4.0	0.0	35.2	35.2
1725	2000.0	600.0	4.0	0.0	34.7	34.7
1726	2050.0	600.0	4.0	0.0	34.3	34.3
1727	2100.0	600.0	4.0	0.0	33.9	33.9
1728	2150.0	600.0	4.0	0.0	33.5	33.5
1729	-500.0	550.0	4.0	0.0	40.6	40.6
1730	-450.0	550.0	4.0	0.0	41.2	41.2
1731	-400.0	550.0	4.0	0.0	41.7	41.7
1732	-350.0	550.0	4.0	0.0	42.1	42.1
1733	-300.0	550.0	4.0	0.0	42.5	42.5
1734	-250.0	550.0	4.0	0.0	42.7	42.7
1735	-200.0	550.0	4.0	0.0	42.8	42.8
1736	-150.0	550.0	4.0	0.0	42.7	42.7
1737	-100.0	550.0	4.0	0.0	42.5	42.5
1738	-50.0	550.0	4.0	0.0	42.3	42.3
1739	0.0	550.0	4.0	0.0	42.0	42.0

1740	50.0	550.0	4.0	0.0	41.6	41.6
1741	100.0	550.0	4.0	0.0	41.3	41.3
1742	150.0	550.0	4.0	0.0	41.1	41.1
1743	200.0	550.0	4.0	0.0	40.8	40.8
1744	250.0	550.0	4.0	0.0	40.6	40.6
1745	300.0	550.0	4.0	0.0	40.5	40.5
1746	350.0	550.0	4.0	0.0	40.3	40.3
1747	400.0	550.0	4.0	0.0	40.2	40.2
1748	450.0	550.0	4.0	0.0	40.1	40.1
1749	500.0	550.0	4.0	0.0	40.0	40.0
1750	550.0	550.0	4.0	0.0	39.9	39.9
1751	600.0	550.0	4.0	0.0	39.8	39.8
1752	650.0	550.0	4.0	0.0	39.7	39.7
1753	700.0	550.0	4.0	0.0	39.6	39.6
1754	750.0	550.0	4.0	0.0	39.5	39.5
1755	800.0	550.0	4.0	0.0	39.5	39.5
1756	850.0	550.0	4.0	0.0	39.4	39.4
1757	900.0	550.0	4.0	0.0	39.5	39.5
1758	950.0	550.0	4.0	0.0	39.5	39.5
1759	1000.0	550.0	4.0	0.0	39.6	39.6
1760	1050.0	550.0	4.0	0.0	39.6	39.6
1761	1100.0	550.0	4.0	0.0	39.7	39.7
1762	1150.0	550.0	4.0	0.0	39.9	39.9
1763	1200.0	550.0	4.0	0.0	40.1	40.1
1764	1250.0	550.0	4.0	0.0	40.7	40.7
1765	1300.0	550.0	4.0	0.0	42.0	42.0
1766	1350.0	550.0	4.0	0.0	43.9	43.9
1767	1400.0	550.0	4.0	0.0	43.7	43.7
1768	1450.0	550.0	4.0	0.0	41.0	41.0
1769	1500.0	550.0	4.0	0.0	39.5	39.5
1770	1550.0	550.0	4.0	0.0	38.7	38.7
1771	1600.0	550.0	4.0	0.0	38.1	38.1
1772	1650.0	550.0	4.0	0.0	37.6	37.6
1773	1700.0	550.0	4.0	0.0	37.1	37.1
1774	1750.0	550.0	4.0	0.0	36.7	36.7
1775	1800.0	550.0	4.0	0.0	36.2	36.2
1776	1850.0	550.0	4.0	0.0	35.8	35.8
1777	1900.0	550.0	4.0	0.0	35.3	35.3
1778	1950.0	550.0	4.0	0.0	34.9	34.9
1779	2000.0	550.0	4.0	0.0	34.5	34.5
1780	2050.0	550.0	4.0	0.0	34.1	34.1
1781	2100.0	550.0	4.0	0.0	33.6	33.6
1782	2150.0	550.0	4.0	0.0	33.2	33.2
1783	-500.0	500.0	4.0	0.0	41.3	41.3
1784	-450.0	500.0	4.0	0.0	41.9	41.9

1785	-400.0	500.0	4.0	0.0	42.6	42.6
1786	-350.0	500.0	4.0	0.0	43.1	43.1
1787	-300.0	500.0	4.0	0.0	43.5	43.5
1788	-250.0	500.0	4.0	0.0	43.8	43.8
1789	-200.0	500.0	4.0	0.0	43.9	43.9
1790	-150.0	500.0	4.0	0.0	43.8	43.8
1791	-100.0	500.0	4.0	0.0	43.5	43.5
1792	-50.0	500.0	4.0	0.0	43.1	43.1
1793	0.0	500.0	4.0	0.0	42.6	42.6
1794	50.0	500.0	4.0	0.0	42.1	42.1
1795	100.0	500.0	4.0	0.0	41.7	41.7
1796	150.0	500.0	4.0	0.0	41.3	41.3
1797	200.0	500.0	4.0	0.0	40.9	40.9
1798	250.0	500.0	4.0	0.0	40.6	40.6
1799	300.0	500.0	4.0	0.0	40.3	40.3
1800	350.0	500.0	4.0	0.0	40.1	40.1
1801	400.0	500.0	4.0	0.0	39.9	39.9
1802	450.0	500.0	4.0	0.0	39.8	39.8
1803	500.0	500.0	4.0	0.0	39.6	39.6
1804	550.0	500.0	4.0	0.0	39.5	39.5
1805	600.0	500.0	4.0	0.0	39.4	39.4
1806	650.0	500.0	4.0	0.0	39.3	39.3
1807	700.0	500.0	4.0	0.0	39.2	39.2
1808	750.0	500.0	4.0	0.0	39.1	39.1
1809	800.0	500.0	4.0	0.0	39.0	39.0
1810	850.0	500.0	4.0	0.0	39.0	39.0
1811	900.0	500.0	4.0	0.0	39.0	39.0
1812	950.0	500.0	4.0	0.0	39.0	39.0
1813	1000.0	500.0	4.0	0.0	39.0	39.0
1814	1050.0	500.0	4.0	0.0	39.1	39.1
1815	1100.0	500.0	4.0	0.0	39.2	39.2
1816	1150.0	500.0	4.0	0.0	39.3	39.3
1817	1200.0	500.0	4.0	0.0	39.6	39.6
1818	1250.0	500.0	4.0	0.0	40.5	40.5
1819	1300.0	500.0	4.0	0.0	44.0	44.0
1820	1350.0	500.0	4.0	0.0	57.6	57.6
1821	1400.0	500.0	4.0	0.0	49.2	49.2
1822	1450.0	500.0	4.0	0.0	41.2	41.2
1823	1500.0	500.0	4.0	0.0	39.2	39.2
1824	1550.0	500.0	4.0	0.0	38.3	38.3
1825	1600.0	500.0	4.0	0.0	37.7	37.7
1826	1650.0	500.0	4.0	0.0	37.2	37.2
1827	1700.0	500.0	4.0	0.0	36.7	36.7
1828	1750.0	500.0	4.0	0.0	36.3	36.3
1829	1800.0	500.0	4.0	0.0	35.9	35.9

1830	1850.0	500.0	4.0	0.0	35.4	35.4
1831	1900.0	500.0	4.0	0.0	35.0	35.0
1832	1950.0	500.0	4.0	0.0	34.6	34.6
1833	2000.0	500.0	4.0	0.0	34.2	34.2
1834	2050.0	500.0	4.0	0.0	33.8	33.8
1835	2100.0	500.0	4.0	0.0	33.4	33.4
1836	2150.0	500.0	4.0	0.0	33.0	33.0
1837	-500.0	450.0	4.0	0.0	42.0	42.0
1838	-450.0	450.0	4.0	0.0	42.8	42.8
1839	-400.0	450.0	4.0	0.0	43.5	43.5
1840	-350.0	450.0	4.0	0.0	44.2	44.2
1841	-300.0	450.0	4.0	0.0	44.8	44.8
1842	-250.0	450.0	4.0	0.0	45.1	45.1
1843	-200.0	450.0	4.0	0.0	45.2	45.2
1844	-150.0	450.0	4.0	0.0	45.0	45.0
1845	-100.0	450.0	4.0	0.0	44.6	44.6
1846	-50.0	450.0	4.0	0.0	44.0	44.0
1847	0.0	450.0	4.0	0.0	43.4	43.4
1848	50.0	450.0	4.0	0.0	42.7	42.7
1849	100.0	450.0	4.0	0.0	42.1	42.1
1850	150.0	450.0	4.0	0.0	41.5	41.5
1851	200.0	450.0	4.0	0.0	41.0	41.0
1852	250.0	450.0	4.0	0.0	40.6	40.6
1853	300.0	450.0	4.0	0.0	40.3	40.3
1854	350.0	450.0	4.0	0.0	40.0	40.0
1855	400.0	450.0	4.0	0.0	39.7	39.7
1856	450.0	450.0	4.0	0.0	39.5	39.5
1857	500.0	450.0	4.0	0.0	39.3	39.3
1858	550.0	450.0	4.0	0.0	39.2	39.2
1859	600.0	450.0	4.0	0.0	39.0	39.0
1860	650.0	450.0	4.0	0.0	38.9	38.9
1861	700.0	450.0	4.0	0.0	38.8	38.8
1862	750.0	450.0	4.0	0.0	38.7	38.7
1863	800.0	450.0	4.0	0.0	38.6	38.6
1864	850.0	450.0	4.0	0.0	38.6	38.6
1865	900.0	450.0	4.0	0.0	38.5	38.5
1866	950.0	450.0	4.0	0.0	38.5	38.5
1867	1000.0	450.0	4.0	0.0	38.6	38.6
1868	1050.0	450.0	4.0	0.0	38.6	38.6
1869	1100.0	450.0	4.0	0.0	38.7	38.7
1870	1150.0	450.0	4.0	0.0	38.8	38.8
1871	1200.0	450.0	4.0	0.0	39.1	39.1
1872	1250.0	450.0	4.0	0.0	39.8	39.8
1873	1300.0	450.0	4.0	0.0	41.4	41.4
1874	1350.0	450.0	4.0	0.0	43.0	43.0

1875	1400.0	450.0	4.0	0.0	41.8	41.8
1876	1450.0	450.0	4.0	0.0	39.9	39.9
1877	1500.0	450.0	4.0	0.0	38.6	38.6
1878	1550.0	450.0	4.0	0.0	37.8	37.8
1879	1600.0	450.0	4.0	0.0	37.2	37.2
1880	1650.0	450.0	4.0	0.0	36.7	36.7
1881	1700.0	450.0	4.0	0.0	36.3	36.3
1882	1750.0	450.0	4.0	0.0	35.9	35.9
1883	1800.0	450.0	4.0	0.0	35.5	35.5
1884	1850.0	450.0	4.0	0.0	35.1	35.1
1885	1900.0	450.0	4.0	0.0	34.7	34.7
1886	1950.0	450.0	4.0	0.0	34.3	34.3
1887	2000.0	450.0	4.0	0.0	33.9	33.9
1888	2050.0	450.0	4.0	0.0	33.5	33.5
1889	2100.0	450.0	4.0	0.0	33.2	33.2
1890	2150.0	450.0	4.0	0.0	32.8	32.8
1891	-500.0	400.0	4.0	0.0	42.6	42.6
1892	-450.0	400.0	4.0	0.0	43.6	43.6
1893	-400.0	400.0	4.0	0.0	44.6	44.6
1894	-350.0	400.0	4.0	0.0	45.5	45.5
1895	-300.0	400.0	4.0	0.0	46.2	46.2
1896	-250.0	400.0	4.0	0.0	46.7	46.7
1897	-200.0	400.0	4.0	0.0	46.7	46.7
1898	-150.0	400.0	4.0	0.0	46.4	46.4
1899	-100.0	400.0	4.0	0.0	45.8	45.8
1900	-50.0	400.0	4.0	0.0	45.0	45.0
1901	0.0	400.0	4.0	0.0	44.2	44.2
1902	50.0	400.0	4.0	0.0	43.3	43.3
1903	100.0	400.0	4.0	0.0	42.5	42.5
1904	150.0	400.0	4.0	0.0	41.8	41.8
1905	200.0	400.0	4.0	0.0	41.2	41.2
1906	250.0	400.0	4.0	0.0	40.7	40.7
1907	300.0	400.0	4.0	0.0	40.2	40.2
1908	350.0	400.0	4.0	0.0	39.9	39.9
1909	400.0	400.0	4.0	0.0	39.6	39.6
1910	450.0	400.0	4.0	0.0	39.3	39.3
1911	500.0	400.0	4.0	0.0	39.1	39.1
1912	550.0	400.0	4.0	0.0	38.9	38.9
1913	600.0	400.0	4.0	0.0	38.7	38.7
1914	650.0	400.0	4.0	0.0	38.5	38.5
1915	700.0	400.0	4.0	0.0	38.4	38.4
1916	750.0	400.0	4.0	0.0	38.3	38.3
1917	800.0	400.0	4.0	0.0	38.2	38.2
1918	850.0	400.0	4.0	0.0	38.2	38.2
1919	900.0	400.0	4.0	0.0	38.1	38.1

1920	950.0	400.0	4.0	0.0	38.1	38.1
1921	1000.0	400.0	4.0	0.0	38.1	38.1
1922	1050.0	400.0	4.0	0.0	38.1	38.1
1923	1100.0	400.0	4.0	0.0	38.2	38.2
1924	1150.0	400.0	4.0	0.0	38.2	38.2
1925	1200.0	400.0	4.0	0.0	38.4	38.4
1926	1250.0	400.0	4.0	0.0	38.8	38.8
1927	1300.0	400.0	4.0	0.0	39.3	39.3
1928	1350.0	400.0	4.0	0.0	39.6	39.6
1929	1400.0	400.0	4.0	0.0	39.3	39.3
1930	1450.0	400.0	4.0	0.0	38.5	38.5
1931	1500.0	400.0	4.0	0.0	37.8	37.8
1932	1550.0	400.0	4.0	0.0	37.2	37.2
1933	1600.0	400.0	4.0	0.0	36.7	36.7
1934	1650.0	400.0	4.0	0.0	36.3	36.3
1935	1700.0	400.0	4.0	0.0	35.9	35.9
1936	1750.0	400.0	4.0	0.0	35.5	35.5
1937	1800.0	400.0	4.0	0.0	35.1	35.1
1938	1850.0	400.0	4.0	0.0	34.8	34.8
1939	1900.0	400.0	4.0	0.0	34.4	34.4
1940	1950.0	400.0	4.0	0.0	34.0	34.0
1941	2000.0	400.0	4.0	0.0	33.6	33.6
1942	2050.0	400.0	4.0	0.0	33.3	33.3
1943	2100.0	400.0	4.0	0.0	32.9	32.9
1944	2150.0	400.0	4.0	0.0	32.6	32.6
1945	-500.0	350.0	4.0	0.0	43.3	43.3
1946	-450.0	350.0	4.0	0.0	44.4	44.4
1947	-400.0	350.0	4.0	0.0	45.6	45.6
1948	-350.0	350.0	4.0	0.0	46.8	46.8
1949	-300.0	350.0	4.0	0.0	47.8	47.8
1950	-250.0	350.0	4.0	0.0	48.5	48.5
1951	-200.0	350.0	4.0	0.0	48.6	48.6
1952	-150.0	350.0	4.0	0.0	48.1	48.1
1953	-100.0	350.0	4.0	0.0	47.2	47.2
1954	-50.0	350.0	4.0	0.0	46.1	46.1
1955	0.0	350.0	4.0	0.0	45.0	45.0
1956	50.0	350.0	4.0	0.0	43.9	43.9
1957	100.0	350.0	4.0	0.0	43.0	43.0
1958	150.0	350.0	4.0	0.0	42.1	42.1
1959	200.0	350.0	4.0	0.0	41.4	41.4
1960	250.0	350.0	4.0	0.0	40.8	40.8
1961	300.0	350.0	4.0	0.0	40.2	40.2
1962	350.0	350.0	4.0	0.0	39.8	39.8
1963	400.0	350.0	4.0	0.0	39.4	39.4
1964	450.0	350.0	4.0	0.0	39.1	39.1

1965	500.0	350.0	4.0	0.0	38.8	38.8
1966	550.0	350.0	4.0	0.0	38.6	38.6
1967	600.0	350.0	4.0	0.0	38.4	38.4
1968	650.0	350.0	4.0	0.0	38.2	38.2
1969	700.0	350.0	4.0	0.0	38.1	38.1
1970	750.0	350.0	4.0	0.0	38.0	38.0
1971	800.0	350.0	4.0	0.0	37.9	37.9
1972	850.0	350.0	4.0	0.0	37.8	37.8
1973	900.0	350.0	4.0	0.0	37.7	37.7
1974	950.0	350.0	4.0	0.0	37.7	37.7
1975	1000.0	350.0	4.0	0.0	37.7	37.7
1976	1050.0	350.0	4.0	0.0	37.6	37.6
1977	1100.0	350.0	4.0	0.0	37.7	37.7
1978	1150.0	350.0	4.0	0.0	37.7	37.7
1979	1200.0	350.0	4.0	0.0	37.8	37.8
1980	1250.0	350.0	4.0	0.0	37.9	37.9
1981	1300.0	350.0	4.0	0.0	38.1	38.1
1982	1350.0	350.0	4.0	0.0	38.1	38.1
1983	1400.0	350.0	4.0	0.0	37.9	37.9
1984	1450.0	350.0	4.0	0.0	37.5	37.5
1985	1500.0	350.0	4.0	0.0	37.1	37.1
1986	1550.0	350.0	4.0	0.0	36.6	36.6
1987	1600.0	350.0	4.0	0.0	36.2	36.2
1988	1650.0	350.0	4.0	0.0	35.8	35.8
1989	1700.0	350.0	4.0	0.0	35.5	35.5
1990	1750.0	350.0	4.0	0.0	35.1	35.1
1991	1800.0	350.0	4.0	0.0	34.8	34.8
1992	1850.0	350.0	4.0	0.0	34.4	34.4
1993	1900.0	350.0	4.0	0.0	34.1	34.1
1994	1950.0	350.0	4.0	0.0	33.7	33.7
1995	2000.0	350.0	4.0	0.0	33.4	33.4
1996	2050.0	350.0	4.0	0.0	33.0	33.0
1997	2100.0	350.0	4.0	0.0	32.7	32.7
1998	2150.0	350.0	4.0	0.0	32.3	32.3
1999	-500.0	300.0	4.0	0.0	43.8	43.8
2000	-450.0	300.0	4.0	0.0	45.1	45.1
2001	-400.0	300.0	4.0	0.0	46.6	46.6
2002	-350.0	300.0	4.0	0.0	48.1	48.1
2003	-300.0	300.0	4.0	0.0	49.5	49.5
2004	-250.0	300.0	4.0	0.0	50.6	50.6
2005	-200.0	300.0	4.0	0.0	50.7	50.7
2006	-150.0	300.0	4.0	0.0	49.9	49.9
2007	-100.0	300.0	4.0	0.0	48.6	48.6
2008	-50.0	300.0	4.0	0.0	47.1	47.1
2009	0.0	300.0	4.0	0.0	45.7	45.7

2010	50.0	300.0	4.0	0.0	44.4	44.4
2011	100.0	300.0	4.0	0.0	43.3	43.3
2012	150.0	300.0	4.0	0.0	42.4	42.4
2013	200.0	300.0	4.0	0.0	41.5	41.5
2014	250.0	300.0	4.0	0.0	40.8	40.8
2015	300.0	300.0	4.0	0.0	40.2	40.2
2016	350.0	300.0	4.0	0.0	39.7	39.7
2017	400.0	300.0	4.0	0.0	39.3	39.3
2018	450.0	300.0	4.0	0.0	38.9	38.9
2019	500.0	300.0	4.0	0.0	38.6	38.6
2020	550.0	300.0	4.0	0.0	38.4	38.4
2021	600.0	300.0	4.0	0.0	38.1	38.1
2022	650.0	300.0	4.0	0.0	37.9	37.9
2023	700.0	300.0	4.0	0.0	37.8	37.8
2024	750.0	300.0	4.0	0.0	37.6	37.6
2025	800.0	300.0	4.0	0.0	37.5	37.5
2026	850.0	300.0	4.0	0.0	37.4	37.4
2027	900.0	300.0	4.0	0.0	37.3	37.3
2028	950.0	300.0	4.0	0.0	37.3	37.3
2029	1000.0	300.0	4.0	0.0	37.2	37.2
2030	1050.0	300.0	4.0	0.0	37.2	37.2
2031	1100.0	300.0	4.0	0.0	37.2	37.2
2032	1150.0	300.0	4.0	0.0	37.2	37.2
2033	1200.0	300.0	4.0	0.0	37.2	37.2
2034	1250.0	300.0	4.0	0.0	37.2	37.2
2035	1300.0	300.0	4.0	0.0	37.2	37.2
2036	1350.0	300.0	4.0	0.0	37.2	37.2
2037	1400.0	300.0	4.0	0.0	37.0	37.0
2038	1450.0	300.0	4.0	0.0	36.7	36.7
2039	1500.0	300.0	4.0	0.0	36.4	36.4
2040	1550.0	300.0	4.0	0.0	36.1	36.1
2041	1600.0	300.0	4.0	0.0	35.7	35.7
2042	1650.0	300.0	4.0	0.0	35.4	35.4
2043	1700.0	300.0	4.0	0.0	35.1	35.1
2044	1750.0	300.0	4.0	0.0	34.7	34.7
2045	1800.0	300.0	4.0	0.0	34.4	34.4
2046	1850.0	300.0	4.0	0.0	34.1	34.1
2047	1900.0	300.0	4.0	0.0	33.7	33.7
2048	1950.0	300.0	4.0	0.0	33.4	33.4
2049	2000.0	300.0	4.0	0.0	33.1	33.1
2050	2050.0	300.0	4.0	0.0	32.7	32.7
2051	2100.0	300.0	4.0	0.0	32.4	32.4
2052	2150.0	300.0	4.0	0.0	32.1	32.1
2053	-500.0	250.0	4.0	0.0	44.2	44.2
2054	-450.0	250.0	4.0	0.0	45.7	45.7

2055	-400.0	250.0	4.0	0.0	47.3	47.3
2056	-350.0	250.0	4.0	0.0	49.2	49.2
2057	-300.0	250.0	4.0	0.0	51.1	51.1
2058	-250.0	250.0	4.0	0.0	52.7	52.7
2059	-200.0	250.0	4.0	0.0	52.9	52.9
2060	-150.0	250.0	4.0	0.0	51.7	51.7
2061	-100.0	250.0	4.0	0.0	49.8	49.8
2062	-50.0	250.0	4.0	0.0	48.0	48.0
2063	0.0	250.0	4.0	0.0	46.3	46.3
2064	50.0	250.0	4.0	0.0	44.8	44.8
2065	100.0	250.0	4.0	0.0	43.6	43.6
2066	150.0	250.0	4.0	0.0	42.5	42.5
2067	200.0	250.0	4.0	0.0	41.6	41.6
2068	250.0	250.0	4.0	0.0	40.9	40.9
2069	300.0	250.0	4.0	0.0	40.2	40.2
2070	350.0	250.0	4.0	0.0	39.6	39.6
2071	400.0	250.0	4.0	0.0	39.2	39.2
2072	450.0	250.0	4.0	0.0	38.8	38.8
2073	500.0	250.0	4.0	0.0	38.4	38.4
2074	550.0	250.0	4.0	0.0	38.1	38.1
2075	600.0	250.0	4.0	0.0	37.9	37.9
2076	650.0	250.0	4.0	0.0	37.7	37.7
2077	700.0	250.0	4.0	0.0	37.5	37.5
2078	750.0	250.0	4.0	0.0	37.3	37.3
2079	800.0	250.0	4.0	0.0	37.2	37.2
2080	850.0	250.0	4.0	0.0	37.1	37.1
2081	900.0	250.0	4.0	0.0	37.0	37.0
2082	950.0	250.0	4.0	0.0	36.9	36.9
2083	1000.0	250.0	4.0	0.0	36.8	36.8
2084	1050.0	250.0	4.0	0.0	36.8	36.8
2085	1100.0	250.0	4.0	0.0	36.7	36.7
2086	1150.0	250.0	4.0	0.0	36.7	36.7
2087	1200.0	250.0	4.0	0.0	36.7	36.7
2088	1250.0	250.0	4.0	0.0	36.6	36.6
2089	1300.0	250.0	4.0	0.0	36.6	36.6
2090	1350.0	250.0	4.0	0.0	36.5	36.5
2091	1400.0	250.0	4.0	0.0	36.3	36.3
2092	1450.0	250.0	4.0	0.0	36.1	36.1
2093	1500.0	250.0	4.0	0.0	35.9	35.9
2094	1550.0	250.0	4.0	0.0	35.6	35.6
2095	1600.0	250.0	4.0	0.0	35.3	35.3
2096	1650.0	250.0	4.0	0.0	35.0	35.0
2097	1700.0	250.0	4.0	0.0	34.7	34.7
2098	1750.0	250.0	4.0	0.0	34.4	34.4
2099	1800.0	250.0	4.0	0.0	34.1	34.1

2100	1850.0	250.0	4.0	0.0	33.7	33.7
2101	1900.0	250.0	4.0	0.0	33.4	33.4
2102	1950.0	250.0	4.0	0.0	33.1	33.1
2103	2000.0	250.0	4.0	0.0	32.8	32.8
2104	2050.0	250.0	4.0	0.0	32.5	32.5
2105	2100.0	250.0	4.0	0.0	32.2	32.2
2106	2150.0	250.0	4.0	0.0	31.9	31.9
2107	-500.0	200.0	4.0	0.0	44.4	44.4
2108	-450.0	200.0	4.0	0.0	45.9	45.9
2109	-400.0	200.0	4.0	0.0	47.7	47.7
2110	-350.0	200.0	4.0	0.0	49.7	49.7
2111	-300.0	200.0	4.0	0.0	52.0	52.0
2112	-250.0	200.0	4.0	0.0	53.9	53.9
2113	-200.0	200.0	4.0	0.0	54.3	54.3
2114	-150.0	200.0	4.0	0.0	52.7	52.7
2115	-100.0	200.0	4.0	0.0	50.5	50.5
2116	-50.0	200.0	4.0	0.0	48.3	48.3
2117	0.0	200.0	4.0	0.0	46.5	46.5
2118	50.0	200.0	4.0	0.0	45.0	45.0
2119	100.0	200.0	4.0	0.0	43.7	43.7
2120	150.0	200.0	4.0	0.0	42.6	42.6
2121	200.0	200.0	4.0	0.0	41.6	41.6
2122	250.0	200.0	4.0	0.0	40.8	40.8
2123	300.0	200.0	4.0	0.0	40.1	40.1
2124	350.0	200.0	4.0	0.0	39.5	39.5
2125	400.0	200.0	4.0	0.0	39.0	39.0
2126	450.0	200.0	4.0	0.0	38.6	38.6
2127	500.0	200.0	4.0	0.0	38.2	38.2
2128	550.0	200.0	4.0	0.0	37.9	37.9
2129	600.0	200.0	4.0	0.0	37.6	37.6
2130	650.0	200.0	4.0	0.0	37.4	37.4
2131	700.0	200.0	4.0	0.0	37.2	37.2
2132	750.0	200.0	4.0	0.0	37.0	37.0
2133	800.0	200.0	4.0	0.0	36.9	36.9
2134	850.0	200.0	4.0	0.0	36.7	36.7
2135	900.0	200.0	4.0	0.0	36.6	36.6
2136	950.0	200.0	4.0	0.0	36.5	36.5
2137	1000.0	200.0	4.0	0.0	36.5	36.5
2138	1050.0	200.0	4.0	0.0	36.4	36.4
2139	1100.0	200.0	4.0	0.0	36.3	36.3
2140	1150.0	200.0	4.0	0.0	36.2	36.2
2141	1200.0	200.0	4.0	0.0	36.2	36.2
2142	1250.0	200.0	4.0	0.0	36.1	36.1
2143	1300.0	200.0	4.0	0.0	36.0	36.0
2144	1350.0	200.0	4.0	0.0	35.9	35.9

2145	1400.0	200.0	4.0	0.0	35.8	35.8
2146	1450.0	200.0	4.0	0.0	35.6	35.6
2147	1500.0	200.0	4.0	0.0	35.3	35.3
2148	1550.0	200.0	4.0	0.0	35.1	35.1
2149	1600.0	200.0	4.0	0.0	34.8	34.8
2150	1650.0	200.0	4.0	0.0	34.6	34.6
2151	1700.0	200.0	4.0	0.0	34.3	34.3
2152	1750.0	200.0	4.0	0.0	34.0	34.0
2153	1800.0	200.0	4.0	0.0	33.7	33.7
2154	1850.0	200.0	4.0	0.0	33.4	33.4
2155	1900.0	200.0	4.0	0.0	33.1	33.1
2156	1950.0	200.0	4.0	0.0	32.8	32.8
2157	2000.0	200.0	4.0	0.0	32.5	32.5
2158	2050.0	200.0	4.0	0.0	32.2	32.2
2159	2100.0	200.0	4.0	0.0	31.9	31.9
2160	2150.0	200.0	4.0	0.0	31.6	31.6
2161	-500.0	150.0	4.0	0.0	44.3	44.3
2162	-450.0	150.0	4.0	0.0	45.8	45.8
2163	-400.0	150.0	4.0	0.0	47.5	47.5
2164	-350.0	150.0	4.0	0.0	49.5	49.5
2165	-300.0	150.0	4.0	0.0	51.6	51.6
2166	-250.0	150.0	4.0	0.0	53.4	53.4
2167	-200.0	150.0	4.0	0.0	53.7	53.7
2168	-150.0	150.0	4.0	0.0	52.3	52.3
2169	-100.0	150.0	4.0	0.0	50.2	50.2
2170	-50.0	150.0	4.0	0.0	48.2	48.2
2171	0.0	150.0	4.0	0.0	46.4	46.4
2172	50.0	150.0	4.0	0.0	44.9	44.9
2173	100.0	150.0	4.0	0.0	43.6	43.6
2174	150.0	150.0	4.0	0.0	42.5	42.5
2175	200.0	150.0	4.0	0.0	41.5	41.5
2176	250.0	150.0	4.0	0.0	40.7	40.7
2177	300.0	150.0	4.0	0.0	40.0	40.0
2178	350.0	150.0	4.0	0.0	39.4	39.4
2179	400.0	150.0	4.0	0.0	38.9	38.9
2180	450.0	150.0	4.0	0.0	38.4	38.4
2181	500.0	150.0	4.0	0.0	38.0	38.0
2182	550.0	150.0	4.0	0.0	37.7	37.7
2183	600.0	150.0	4.0	0.0	37.4	37.4
2184	650.0	150.0	4.0	0.0	37.1	37.1
2185	700.0	150.0	4.0	0.0	36.9	36.9
2186	750.0	150.0	4.0	0.0	36.7	36.7
2187	800.0	150.0	4.0	0.0	36.6	36.6
2188	850.0	150.0	4.0	0.0	36.4	36.4
2189	900.0	150.0	4.0	0.0	36.3	36.3

2190	950.0	150.0	4.0	0.0	36.2	36.2
2191	1000.0	150.0	4.0	0.0	36.1	36.1
2192	1050.0	150.0	4.0	0.0	36.0	36.0
2193	1100.0	150.0	4.0	0.0	35.9	35.9
2194	1150.0	150.0	4.0	0.0	35.8	35.8
2195	1200.0	150.0	4.0	0.0	35.7	35.7
2196	1250.0	150.0	4.0	0.0	35.6	35.6
2197	1300.0	150.0	4.0	0.0	35.5	35.5
2198	1350.0	150.0	4.0	0.0	35.4	35.4
2199	1400.0	150.0	4.0	0.0	35.3	35.3
2200	1450.0	150.0	4.0	0.0	35.1	35.1
2201	1500.0	150.0	4.0	0.0	34.9	34.9
2202	1550.0	150.0	4.0	0.0	34.7	34.7
2203	1600.0	150.0	4.0	0.0	34.4	34.4
2204	1650.0	150.0	4.0	0.0	34.2	34.2
2205	1700.0	150.0	4.0	0.0	33.9	33.9
2206	1750.0	150.0	4.0	0.0	33.6	33.6
2207	1800.0	150.0	4.0	0.0	33.4	33.4
2208	1850.0	150.0	4.0	0.0	33.1	33.1
2209	1900.0	150.0	4.0	0.0	32.8	32.8
2210	1950.0	150.0	4.0	0.0	32.5	32.5
2211	2000.0	150.0	4.0	0.0	32.2	32.2
2212	2050.0	150.0	4.0	0.0	31.9	31.9
2213	2100.0	150.0	4.0	0.0	31.7	31.7
2214	2150.0	150.0	4.0	0.0	31.4	31.4
2215	-500.0	100.0	4.0	0.0	44.0	44.0
2216	-450.0	100.0	4.0	0.0	45.4	45.4
2217	-400.0	100.0	4.0	0.0	46.9	46.9
2218	-350.0	100.0	4.0	0.0	48.6	48.6
2219	-300.0	100.0	4.0	0.0	50.2	50.2
2220	-250.0	100.0	4.0	0.0	51.4	51.4
2221	-200.0	100.0	4.0	0.0	51.6	51.6
2222	-150.0	100.0	4.0	0.0	50.7	50.7
2223	-100.0	100.0	4.0	0.0	49.1	49.1
2224	-50.0	100.0	4.0	0.0	47.5	47.5
2225	0.0	100.0	4.0	0.0	45.9	45.9
2226	50.0	100.0	4.0	0.0	44.5	44.5
2227	100.0	100.0	4.0	0.0	43.3	43.3
2228	150.0	100.0	4.0	0.0	42.2	42.2
2229	200.0	100.0	4.0	0.0	41.3	41.3
2230	250.0	100.0	4.0	0.0	40.5	40.5
2231	300.0	100.0	4.0	0.0	39.8	39.8
2232	350.0	100.0	4.0	0.0	39.2	39.2
2233	400.0	100.0	4.0	0.0	38.7	38.7
2234	450.0	100.0	4.0	0.0	38.2	38.2

2235	500.0	100.0	4.0	0.0	37.8	37.8
2236	550.0	100.0	4.0	0.0	37.5	37.5
2237	600.0	100.0	4.0	0.0	37.2	37.2
2238	650.0	100.0	4.0	0.0	36.9	36.9
2239	700.0	100.0	4.0	0.0	36.7	36.7
2240	750.0	100.0	4.0	0.0	36.4	36.4
2241	800.0	100.0	4.0	0.0	36.3	36.3
2242	850.0	100.0	4.0	0.0	36.1	36.1
2243	900.0	100.0	4.0	0.0	36.0	36.0
2244	950.0	100.0	4.0	0.0	35.8	35.8
2245	1000.0	100.0	4.0	0.0	35.7	35.7
2246	1050.0	100.0	4.0	0.0	35.6	35.6
2247	1100.0	100.0	4.0	0.0	35.5	35.5
2248	1150.0	100.0	4.0	0.0	35.4	35.4
2249	1200.0	100.0	4.0	0.0	35.3	35.3
2250	1250.0	100.0	4.0	0.0	35.2	35.2
2251	1300.0	100.0	4.0	0.0	35.1	35.1
2252	1350.0	100.0	4.0	0.0	35.0	35.0
2253	1400.0	100.0	4.0	0.0	34.8	34.8
2254	1450.0	100.0	4.0	0.0	34.6	34.6
2255	1500.0	100.0	4.0	0.0	34.4	34.4
2256	1550.0	100.0	4.0	0.0	34.2	34.2
2257	1600.0	100.0	4.0	0.0	34.0	34.0
2258	1650.0	100.0	4.0	0.0	33.8	33.8
2259	1700.0	100.0	4.0	0.0	33.5	33.5
2260	1750.0	100.0	4.0	0.0	33.3	33.3
2261	1800.0	100.0	4.0	0.0	33.0	33.0
2262	1850.0	100.0	4.0	0.0	32.8	32.8
2263	1900.0	100.0	4.0	0.0	32.5	32.5
2264	1950.0	100.0	4.0	0.0	32.2	32.2
2265	2000.0	100.0	4.0	0.0	32.0	32.0
2266	2050.0	100.0	4.0	0.0	31.7	31.7
2267	2100.0	100.0	4.0	0.0	31.4	31.4
2268	2150.0	100.0	4.0	0.0	31.1	31.1
2269	-500.0	50.0	4.0	0.0	43.5	43.5
2270	-450.0	50.0	4.0	0.0	44.7	44.7
2271	-400.0	50.0	4.0	0.0	46.0	46.0
2272	-350.0	50.0	4.0	0.0	47.3	47.3
2273	-300.0	50.0	4.0	0.0	48.5	48.5
2274	-250.0	50.0	4.0	0.0	49.3	49.3
2275	-200.0	50.0	4.0	0.0	49.4	49.4
2276	-150.0	50.0	4.0	0.0	48.8	48.8
2277	-100.0	50.0	4.0	0.0	47.7	47.7
2278	-50.0	50.0	4.0	0.0	46.5	46.5
2279	0.0	50.0	4.0	0.0	45.2	45.2

2280	50.0	50.0	4.0	0.0	44.0	44.0
2281	100.0	50.0	4.0	0.0	42.9	42.9
2282	150.0	50.0	4.0	0.0	41.9	41.9
2283	200.0	50.0	4.0	0.0	41.0	41.0
2284	250.0	50.0	4.0	0.0	40.3	40.3
2285	300.0	50.0	4.0	0.0	39.6	39.6
2286	350.0	50.0	4.0	0.0	39.0	39.0
2287	400.0	50.0	4.0	0.0	38.4	38.4
2288	450.0	50.0	4.0	0.0	38.0	38.0
2289	500.0	50.0	4.0	0.0	37.6	37.6
2290	550.0	50.0	4.0	0.0	37.2	37.2
2291	600.0	50.0	4.0	0.0	36.9	36.9
2292	650.0	50.0	4.0	0.0	36.6	36.6
2293	700.0	50.0	4.0	0.0	36.4	36.4
2294	750.0	50.0	4.0	0.0	36.2	36.2
2295	800.0	50.0	4.0	0.0	36.0	36.0
2296	850.0	50.0	4.0	0.0	35.8	35.8
2297	900.0	50.0	4.0	0.0	35.7	35.7
2298	950.0	50.0	4.0	0.0	35.5	35.5
2299	1000.0	50.0	4.0	0.0	35.4	35.4
2300	1050.0	50.0	4.0	0.0	35.3	35.3
2301	1100.0	50.0	4.0	0.0	35.2	35.2
2302	1150.0	50.0	4.0	0.0	35.0	35.0
2303	1200.0	50.0	4.0	0.0	34.9	34.9
2304	1250.0	50.0	4.0	0.0	34.8	34.8
2305	1300.0	50.0	4.0	0.0	34.7	34.7
2306	1350.0	50.0	4.0	0.0	34.5	34.5
2307	1400.0	50.0	4.0	0.0	34.4	34.4
2308	1450.0	50.0	4.0	0.0	34.2	34.2
2309	1500.0	50.0	4.0	0.0	34.0	34.0
2310	1550.0	50.0	4.0	0.0	33.8	33.8
2311	1600.0	50.0	4.0	0.0	33.6	33.6
2312	1650.0	50.0	4.0	0.0	33.4	33.4
2313	1700.0	50.0	4.0	0.0	33.2	33.2
2314	1750.0	50.0	4.0	0.0	32.9	32.9
2315	1800.0	50.0	4.0	0.0	32.7	32.7
2316	1850.0	50.0	4.0	0.0	32.5	32.5
2317	1900.0	50.0	4.0	0.0	32.2	32.2
2318	1950.0	50.0	4.0	0.0	31.9	31.9
2319	2000.0	50.0	4.0	0.0	31.7	31.7
2320	2050.0	50.0	4.0	0.0	31.4	31.4
2321	2100.0	50.0	4.0	0.0	31.1	31.1
2322	2150.0	50.0	4.0	0.0	30.9	30.9
2323	-500.0	0.0	4.0	0.0	42.8	42.8
2324	-450.0	0.0	4.0	0.0	43.9	43.9

2325	-400.0	0.0	4.0	0.0	44.9	44.9
2326	-350.0	0.0	4.0	0.0	45.9	45.9
2327	-300.0	0.0	4.0	0.0	46.8	46.8
2328	-250.0	0.0	4.0	0.0	47.3	47.3
2329	-200.0	0.0	4.0	0.0	47.4	47.4
2330	-150.0	0.0	4.0	0.0	47.0	47.0
2331	-100.0	0.0	4.0	0.0	46.3	46.3
2332	-50.0	0.0	4.0	0.0	45.3	45.3
2333	0.0	0.0	4.0	0.0	44.3	44.3
2334	50.0	0.0	4.0	0.0	43.3	43.3
2335	100.0	0.0	4.0	0.0	42.3	42.3
2336	150.0	0.0	4.0	0.0	41.5	41.5
2337	200.0	0.0	4.0	0.0	40.7	40.7
2338	250.0	0.0	4.0	0.0	39.9	39.9
2339	300.0	0.0	4.0	0.0	39.3	39.3
2340	350.0	0.0	4.0	0.0	38.7	38.7
2341	400.0	0.0	4.0	0.0	38.2	38.2
2342	450.0	0.0	4.0	0.0	37.7	37.7
2343	500.0	0.0	4.0	0.0	37.3	37.3
2344	550.0	0.0	4.0	0.0	37.0	37.0
2345	600.0	0.0	4.0	0.0	36.6	36.6
2346	650.0	0.0	4.0	0.0	36.4	36.4
2347	700.0	0.0	4.0	0.0	36.1	36.1
2348	750.0	0.0	4.0	0.0	35.9	35.9
2349	800.0	0.0	4.0	0.0	35.7	35.7
2350	850.0	0.0	4.0	0.0	35.5	35.5
2351	900.0	0.0	4.0	0.0	35.4	35.4
2352	950.0	0.0	4.0	0.0	35.2	35.2
2353	1000.0	0.0	4.0	0.0	35.1	35.1
2354	1050.0	0.0	4.0	0.0	34.9	34.9
2355	1100.0	0.0	4.0	0.0	34.8	34.8
2356	1150.0	0.0	4.0	0.0	34.7	34.7
2357	1200.0	0.0	4.0	0.0	34.6	34.6
2358	1250.0	0.0	4.0	0.0	34.4	34.4
2359	1300.0	0.0	4.0	0.0	34.3	34.3
2360	1350.0	0.0	4.0	0.0	34.2	34.2
2361	1400.0	0.0	4.0	0.0	34.0	34.0
2362	1450.0	0.0	4.0	0.0	33.8	33.8
2363	1500.0	0.0	4.0	0.0	33.7	33.7
2364	1550.0	0.0	4.0	0.0	33.5	33.5
2365	1600.0	0.0	4.0	0.0	33.3	33.3
2366	1650.0	0.0	4.0	0.0	33.1	33.1
2367	1700.0	0.0	4.0	0.0	32.8	32.8
2368	1750.0	0.0	4.0	0.0	32.6	32.6
2369	1800.0	0.0	4.0	0.0	32.4	32.4

2370	1850.0	0.0	4.0	0.0	32.1	32.1
2371	1900.0	0.0	4.0	0.0	31.9	31.9
2372	1950.0	0.0	4.0	0.0	31.7	31.7
2373	2000.0	0.0	4.0	0.0	31.4	31.4
2374	2050.0	0.0	4.0	0.0	31.1	31.1
2375	2100.0	0.0	4.0	0.0	30.9	30.9
2376	2150.0	0.0	4.0	0.0	30.6	30.6

LAeq , dzień: wartość największa występuje w punkcie (1000,1200,4.0)

i wynosi 58.1 dB(A)

LAeq , noc: wartość największa występuje w punkcie (1000,1200,4.0)

i wynosi 58.1 dB(A)

Pora dnia - przedział czasu odniesienia równy 8 najmniej korzystnym godzinom dnia kolejno po sobie następującym

Pora nocy - przedział czasu odniesienia równy 1 najmniej korzystnej godzinie nocy

Tłumienie przez grunt wg wzoru 9 PN-ISO 9613.

Analiza akustyczna nr 2

W analizie akustycznej nr 2 uwzględniono funkcjonujące farmy wiatrowe oraz planowane do realizacji liczne farmy fotowoltaiczne, a także źródła hałasu pochodzące z przedmiotowej inwestycji.

Z.U.O. "EKO - SOFT"

Łódź ul. Rogozińskiego 17/7

tel. 042 648 71 85

HAŁAS PRZEMYSŁOWY I DROGOWY

PROGRAM SON2 WERSJA 5.424

Właściciel licencji: Pro Vento Energia Sp. z o.o.

ul. Grunwaldzka 4/10 85-236 Bydgoszcz

Licencja nr PV/85-236/Sp/21 z dnia 15.01.2021

DANE WEJŚCIOWE

Rodzaj obliczeń: Poziom hałas równoważnego

1. Nazwa projektu:

2. Temperatura powietrza [st C.] = 10

3. Wilgotność względna powietrza [%] = 70

4. Tło akustyczne dB(A):

Pora dnia : 0.0

Pora nocy : 0.0

5. Rodzaj gruntu : grunt mieszany, wskaźnik gruntu G = 0.90

6. Punktowe źródła hałasu

Lp	Symbol	Współrzędne źródła			ht	Rodzaj	LAW 8h	LAW 1h	Do
		x	y	z		źródła			
		m	m	m	m		dB(A)	dB(A)	dB
Dz. 8 /16									
1	ST 1	988.2	492.4	2.5	0.0	wszechkier.	77.0		
2	ST 2	985.2	497.9	2.5	0.0	wszechkier.	77.0		
3	ST 3	981.4	506.8	2.5	0.0	wszechkier.	77.0		
4	ST 4	977.2	515.7	2.5	0.0	wszechkier.	77.0		
5	M 1	973.8	523.3	2.5	0.0	wszechkier.	77.0	77.0	
6	M 2	970.0	530.1	2.5	0.0	wszechkier.	77.0	77.0	
7	M 3	966.6	538.1	2.5	0.0	wszechkier.	77.0	77.0	
8	M 4	962.3	546.2	2.5	0.0	wszechkier.	77.0	77.0	
9	M 5	957.7	556.7	2.5	0.0	wszechkier.	77.0	77.0	
10	M 6	953.9	563.9	2.5	0.0	wszechkier.	77.0	77.0	
11	M 7	950.5	572.0	2.5	0.0	wszechkier.	77.0	77.0	
12	M 8	945.0	580.5	2.5	0.0	wszechkier.	77.0	77.0	
13	I 1	917.0	622.8	1.5	0.0	wszechkier.	65.0		
14	I 2	830.2	601.2	1.5	0.0	wszechkier.	65.0		
15	I 3	859.9	602.5	1.5	0.0	wszechkier.	65.0		
16	I 4	888.7	602.9	1.5	0.0	wszechkier.	65.0		
17	I 5	915.8	602.9	1.5	0.0	wszechkier.	65.0		
18	I 6	686.7	575.4	1.5	0.0	wszechkier.	65.0		
19	I 7	714.2	576.2	1.5	0.0	wszechkier.	65.0		
20	I 8	743.0	577.5	1.5	0.0	wszechkier.	65.0		
21	I 9	771.8	577.1	1.5	0.0	wszechkier.	65.0		
22	I 10	800.6	577.5	1.5	0.0	wszechkier.	65.0		
23	I 11	830.2	577.9	1.5	0.0	wszechkier.	65.0		
24	I 12	860.3	577.5	1.5	0.0	wszechkier.	65.0		
25	I 13	887.4	577.1	1.5	0.0	wszechkier.	65.0		
26	I 14	917.5	579.2	1.5	0.0	wszechkier.	65.0		
27	I 15	944.6	578.3	1.5	0.0	wszechkier.	65.0		
28	I 16	659.6	551.7	1.5	0.0	wszechkier.	65.0		
29	I 17	685.0	552.1	1.5	0.0	wszechkier.	65.0		
30	I 18	714.2	551.2	1.5	0.0	wszechkier.	65.0		
31	I 19	743.9	551.2	1.5	0.0	wszechkier.	65.0		
32	I 20	774.4	551.7	1.5	0.0	wszechkier.	65.0		
33	I 21	801.0	552.5	1.5	0.0	wszechkier.	65.0		
34	I 22	831.1	553.8	1.5	0.0	wszechkier.	65.0		
35	I 23	859.9	553.4	1.5	0.0	wszechkier.	65.0		
36	I 24	889.5	553.8	1.5	0.0	wszechkier.	65.0		
37	I 25	917.5	552.5	1.5	0.0	wszechkier.	65.0		
38	I 26	945.8	552.1	1.5	0.0	wszechkier.	65.0		

39	I 27	662.6	525.4	1.5	0.0	wszechkier.	65.0
40	I 28	685.4	527.1	1.5	0.0	wszechkier.	65.0
41	I 29	715.5	527.1	1.5	0.0	wszechkier.	65.0
42	I 30	743.5	528.0	1.5	0.0	wszechkier.	65.0
43	I 31	773.1	527.1	1.5	0.0	wszechkier.	65.0
44	I 32	802.3	528.0	1.5	0.0	wszechkier.	65.0
45	I 33	831.1	529.2	1.5	0.0	wszechkier.	65.0
46	I 34	861.6	527.5	1.5	0.0	wszechkier.	65.0
47	I 35	890.4	529.2	1.5	0.0	wszechkier.	65.0
48	I 36	920.8	529.6	1.5	0.0	wszechkier.	65.0
49	I 37	949.6	529.2	1.5	0.0	wszechkier.	65.0
50	I 38	663.0	501.3	1.5	0.0	wszechkier.	65.0
51	I 39	684.2	502.1	1.5	0.0	wszechkier.	65.0
52	I 40	714.7	502.6	1.5	0.0	wszechkier.	65.0
53	I 41	743.9	503.0	1.5	0.0	wszechkier.	65.0
54	I 42	770.5	502.6	1.5	0.0	wszechkier.	65.0
55	I 43	802.7	503.0	1.5	0.0	wszechkier.	65.0
56	I 44	831.1	504.2	1.5	0.0	wszechkier.	65.0
57	I 45	861.2	502.6	1.5	0.0	wszechkier.	65.0
58	I 46	889.9	502.1	1.5	0.0	wszechkier.	65.0
59	I 47	918.7	503.4	1.5	0.0	wszechkier.	65.0
60	I 48	946.3	503.8	1.5	0.0	wszechkier.	65.0
61	I 49	975.0	505.1	1.5	0.0	wszechkier.	65.0

Dz. 14

62	ST 1	355.6	566.9	2.5	0.0	wszechkier.	77.0	
63	ST 2	363.3	564.8	2.5	0.0	wszechkier.	77.0	
64	ST 3	370.0	562.2	2.5	0.0	wszechkier.	77.0	
65	ST 4	377.2	559.3	2.5	0.0	wszechkier.	77.0	
66	ST 5	385.3	557.2	2.5	0.0	wszechkier.	77.0	
67	ST 6	391.2	553.8	2.5	0.0	wszechkier.	77.0	
68	ST 7	400.5	551.2	2.5	0.0	wszechkier.	77.0	
69	ST 8	407.7	549.1	2.5	0.0	wszechkier.	77.0	
70	ST 9	414.9	546.2	2.5	0.0	wszechkier.	77.0	
71	ME 1	422.1	544.0	2.5	0.0	wszechkier.	77.0	77.0
72	ME 2	429.3	542.8	2.5	0.0	wszechkier.	77.0	77.0
73	ME 3	435.2	546.2	2.5	0.0	wszechkier.	77.0	77.0
74	ME 4	443.3	550.0	2.5	0.0	wszechkier.	77.0	77.0
75	ME 5	450.5	553.8	2.5	0.0	wszechkier.	77.0	77.0
76	ME 6	457.7	554.6	2.5	0.0	wszechkier.	77.0	77.0
77	ME 7	465.7	552.9	2.5	0.0	wszechkier.	77.0	77.0
78	ME 8	473.8	552.5	2.5	0.0	wszechkier.	77.0	77.0
79	ME 9	480.5	550.0	2.5	0.0	wszechkier.	77.0	77.0
80	ME 10	488.2	546.6	2.5	0.0	wszechkier.	77.0	77.0
81	ME 11	496.2	544.0	2.5	0.0	wszechkier.	77.0	77.0
82	ME 12	503.8	542.8	2.5	0.0	wszechkier.	77.0	77.0

83	ME 13	510.2	540.7	2.5	0.0	wszechkier.	77.0	77.0
84	ME 14	517.8	537.3	2.5	0.0	wszechkier.	77.0	77.0
85	ME 15	525.0	535.2	2.5	0.0	wszechkier.	77.0	77.0
86	ME 16	533.0	532.6	2.5	0.0	wszechkier.	77.0	77.0
87	ME 17	539.8	530.1	2.5	0.0	wszechkier.	77.0	77.0
88	ME 18	547.9	527.5	2.5	0.0	wszechkier.	77.0	77.0
89	I 1	383.2	540.7	1.5	0.0	wszechkier.	65.0	
90	I 2	411.1	539.8	1.5	0.0	wszechkier.	65.0	
91	I 3	440.3	539.8	1.5	0.0	wszechkier.	65.0	
92	I 4	471.2	537.7	1.5	0.0	wszechkier.	65.0	
93	I 5	502.6	539.0	1.5	0.0	wszechkier.	65.0	
94	I 6	530.5	539.0	1.5	0.0	wszechkier.	65.0	
95	I 7	561.0	539.0	1.5	0.0	wszechkier.	65.0	
96	I 8	591.5	539.8	1.5	0.0	wszechkier.	65.0	
97	I 9	380.6	561.0	1.5	0.0	wszechkier.	65.0	
98	I 10	410.3	561.0	1.5	0.0	wszechkier.	65.0	
99	I 11	442.4	561.8	1.5	0.0	wszechkier.	65.0	
100	I 12	468.7	563.1	1.5	0.0	wszechkier.	65.0	
101	I 13	498.3	562.7	1.5	0.0	wszechkier.	65.0	
102	I 14	530.9	563.5	1.5	0.0	wszechkier.	65.0	
103	I 15	561.0	563.9	1.5	0.0	wszechkier.	65.0	
104	I 16	591.0	564.4	1.5	0.0	wszechkier.	65.0	
105	I 17	617.7	563.5	1.5	0.0	wszechkier.	65.0	
106	I 18	379.8	584.3	1.5	0.0	wszechkier.	65.0	
107	I 19	410.3	586.0	1.5	0.0	wszechkier.	65.0	
108	I 20	437.8	586.0	1.5	0.0	wszechkier.	65.0	
109	I 21	470.4	586.4	1.5	0.0	wszechkier.	65.0	
110	I 22	499.2	586.8	1.5	0.0	wszechkier.	65.0	
111	I 23	530.9	587.6	1.5	0.0	wszechkier.	65.0	
112	I 24	560.6	588.5	1.5	0.0	wszechkier.	65.0	
113	I 25	588.5	588.1	1.5	0.0	wszechkier.	65.0	
114	I 26	619.4	587.6	1.5	0.0	wszechkier.	65.0	
115	I 27	648.2	588.9	1.5	0.0	wszechkier.	65.0	
116	I 28	682.1	586.4	1.5	0.0	wszechkier.	65.0	
117	I 29	380.2	608.4	1.5	0.0	wszechkier.	65.0	
118	I 30	409.8	609.7	1.5	0.0	wszechkier.	65.0	
119	I 31	437.8	609.7	1.5	0.0	wszechkier.	65.0	
120	I 32	469.5	610.1	1.5	0.0	wszechkier.	65.0	
121	I 33	500.0	610.1	1.5	0.0	wszechkier.	65.0	
122	I 34	529.6	611.4	1.5	0.0	wszechkier.	65.0	
123	I 35	560.1	610.9	1.5	0.0	wszechkier.	65.0	
124	I 36	589.8	612.2	1.5	0.0	wszechkier.	65.0	
125	I 37	621.5	611.4	1.5	0.0	wszechkier.	65.0	
126	I 38	649.5	611.4	1.5	0.0	wszechkier.	65.0	
127	I 39	679.5	611.4	1.5	0.0	wszechkier.	65.0	

128	140	708.7	613.9	1.5	0.0	wszechkier.	65.0
129	141	741.8	613.9	1.5	0.0	wszechkier.	65.0
130	142	769.7	613.1	1.5	0.0	wszechkier.	65.0
131	143	798.1	613.1	1.5	0.0	wszechkier.	65.0
132	144	829.0	613.9	1.5	0.0	wszechkier.	65.0
133	145	858.6	615.6	1.5	0.0	wszechkier.	65.0
134	146	379.3	633.0	1.5	0.0	wszechkier.	65.0
135	147	410.3	632.5	1.5	0.0	wszechkier.	65.0
136	148	440.3	633.8	1.5	0.0	wszechkier.	65.0
137	149	469.5	633.8	1.5	0.0	wszechkier.	65.0
138	150	500.4	634.2	1.5	0.0	wszechkier.	65.0
139	151	528.0	634.6	1.5	0.0	wszechkier.	65.0
140	152	559.7	634.2	1.5	0.0	wszechkier.	65.0
141	153	588.9	635.1	1.5	0.0	wszechkier.	65.0
142	154	620.2	637.6	1.5	0.0	wszechkier.	65.0
143	155	649.9	637.2	1.5	0.0	wszechkier.	65.0
144	156	680.4	637.2	1.5	0.0	wszechkier.	65.0
145	157	711.3	638.0	1.5	0.0	wszechkier.	65.0
146	158	741.3	638.0	1.5	0.0	wszechkier.	65.0
147	159	771.0	638.0	1.5	0.0	wszechkier.	65.0
148	160	797.2	638.0	1.5	0.0	wszechkier.	65.0
149	161	829.0	637.2	1.5	0.0	wszechkier.	65.0
150	162	858.6	637.6	1.5	0.0	wszechkier.	65.0
151	163	888.7	637.2	1.5	0.0	wszechkier.	65.0
152	164	440.7	656.7	1.5	0.0	wszechkier.	65.0
153	165	469.5	657.9	1.5	0.0	wszechkier.	65.0
154	166	497.5	658.8	1.5	0.0	wszechkier.	65.0
155	167	525.4	659.6	1.5	0.0	wszechkier.	65.0
156	168	565.6	658.4	1.5	0.0	wszechkier.	65.0
157	169	588.9	658.4	1.5	0.0	wszechkier.	65.0
158	170	618.6	658.8	1.5	0.0	wszechkier.	65.0
159	171	652.0	660.0	1.5	0.0	wszechkier.	65.0
160	172	677.8	660.0	1.5	0.0	wszechkier.	65.0
161	173	706.6	661.3	1.5	0.0	wszechkier.	65.0
162	174	737.1	660.9	1.5	0.0	wszechkier.	65.0
163	175	769.7	660.5	1.5	0.0	wszechkier.	65.0
164	176	799.8	661.3	1.5	0.0	wszechkier.	65.0
165	177	828.6	663.0	1.5	0.0	wszechkier.	65.0
166	178	858.2	661.7	1.5	0.0	wszechkier.	65.0
167	179	888.7	660.9	1.5	0.0	wszechkier.	65.0
168	180	499.2	682.5	1.5	0.0	wszechkier.	65.0
169	181	522.9	682.5	1.5	0.0	wszechkier.	65.0
170	182	647.8	684.6	1.5	0.0	wszechkier.	65.0
171	183	678.3	683.3	1.5	0.0	wszechkier.	65.0
172	184	709.2	685.0	1.5	0.0	wszechkier.	65.0

173	I 85	738.8	685.9	1.5	0.0	wszechkier.	65.0
174	I 86	768.4	685.9	1.5	0.0	wszechkier.	65.0
175	I 87	797.6	685.9	1.5	0.0	wszechkier.	65.0
176	I 88	828.1	684.6	1.5	0.0	wszechkier.	65.0
177	I 89	854.8	684.2	1.5	0.0	wszechkier.	65.0
178	I 90	888.2	684.6	1.5	0.0	wszechkier.	65.0
179	I 91	648.6	707.0	1.5	0.0	wszechkier.	65.0
180	I 92	679.9	707.0	1.5	0.0	wszechkier.	65.0
181	I 93	710.0	708.7	1.5	0.0	wszechkier.	65.0
182	I 94	737.1	708.7	1.5	0.0	wszechkier.	65.0
183	I 95	768.4	708.7	1.5	0.0	wszechkier.	65.0
184	I 96	797.6	710.0	1.5	0.0	wszechkier.	65.0
185	I 97	831.1	709.2	1.5	0.0	wszechkier.	65.0
186	I 98	856.1	710.4	1.5	0.0	wszechkier.	65.0
187	I 99	890.8	710.4	1.5	0.0	wszechkier.	65.0
188	I 100	649.5	732.4	1.5	0.0	wszechkier.	65.0
189	I 101	679.1	732.4	1.5	0.0	wszechkier.	65.0
190	I 102	709.2	732.9	1.5	0.0	wszechkier.	65.0
191	I 103	737.9	732.9	1.5	0.0	wszechkier.	65.0
192	I 104	768.4	732.9	1.5	0.0	wszechkier.	65.0
193	I 105	797.2	733.7	1.5	0.0	wszechkier.	65.0
194	I 106	828.1	732.9	1.5	0.0	wszechkier.	65.0
195	I 107	860.3	732.4	1.5	0.0	wszechkier.	65.0
196	I 108	884.0	734.6	1.5	0.0	wszechkier.	65.0
197	I 109	707.5	757.4	1.5	0.0	wszechkier.	65.0
198	I 110	737.1	757.4	1.5	0.0	wszechkier.	65.0
199	I 111	767.6	757.4	1.5	0.0	wszechkier.	65.0
200	I 112	798.1	757.0	1.5	0.0	wszechkier.	65.0
201	I 113	829.4	757.8	1.5	0.0	wszechkier.	65.0
202	I 114	856.9	757.8	1.5	0.0	wszechkier.	65.0
203	I 115	889.1	757.0	1.5	0.0	wszechkier.	65.0
204	I 116	768.0	781.6	1.5	0.0	wszechkier.	65.0
205	I 117	796.0	781.1	1.5	0.0	wszechkier.	65.0
206	I 118	828.1	780.3	1.5	0.0	wszechkier.	65.0
207	I 119	858.6	780.7	1.5	0.0	wszechkier.	65.0
208	I 120	889.5	779.9	1.5	0.0	wszechkier.	65.0
209	I 121	829.4	804.0	1.5	0.0	wszechkier.	65.0
210	I 122	856.5	805.3	1.5	0.0	wszechkier.	65.0
211	I 123	886.6	805.3	1.5	0.0	wszechkier.	65.0
212	I 124	889.5	826.4	1.5	0.0	wszechkier.	65.0
213	I 125	911.5	637.2	1.5	0.0	wszechkier.	65.0
214	I 126	646.5	566.9	1.5	0.0	wszechkier.	65.0

Dz. 31, 32

215	ST 1	352.7	643.1	2.5	0.0	wszechkier.	77.0
216	ST 2	364.1	647.3	2.5	0.0	wszechkier.	77.0

217	ST 3	375.5	651.2	2.5	0.0	wszechkier.	77.0	
218	ST 4	389.5	656.2	2.5	0.0	wszechkier.	77.0	
219	ST 5	401.8	661.7	2.5	0.0	wszechkier.	77.0	
220	ST 6	414.5	665.6	2.5	0.0	wszechkier.	77.0	
221	ST 7	429.3	671.1	2.5	0.0	wszechkier.	77.0	
222	ME 1	439.5	675.3	2.5	0.0	wszechkier.	77.0	77.0
223	ME 2	448.8	678.7	2.5	0.0	wszechkier.	77.0	77.0
224	ME 3	458.5	682.5	2.5	0.0	wszechkier.	77.0	77.0
225	ME 4	470.0	686.7	2.5	0.0	wszechkier.	77.0	77.0
226	ME 5	480.1	690.1	2.5	0.0	wszechkier.	77.0	77.0
227	ME 6	491.1	694.8	2.5	0.0	wszechkier.	77.0	77.0
228	ME 7	501.3	699.0	2.5	0.0	wszechkier.	77.0	77.0
229	ME 8	510.6	701.5	2.5	0.0	wszechkier.	77.0	77.0
230	ME 9	526.7	707.5	2.5	0.0	wszechkier.	77.0	77.0
231	ME 10	534.7	711.3	2.5	0.0	wszechkier.	77.0	77.0
232	ME 11	546.2	715.9	2.5	0.0	wszechkier.	77.0	77.0
233	ME 12	555.5	718.0	2.5	0.0	wszechkier.	77.0	77.0
234	ME 13	567.3	723.6	2.5	0.0	wszechkier.	77.0	77.0
235	ME 14	579.2	727.8	2.5	0.0	wszechkier.	77.0	77.0
236	I 1	376.0	674.4	1.5	0.0	wszechkier.	65.0	
237	I 2	400.9	676.1	1.5	0.0	wszechkier.	65.0	
238	I 3	422.1	675.7	1.5	0.0	wszechkier.	65.0	
239	I 4	373.4	703.7	1.5	0.0	wszechkier.	65.0	
240	I 5	399.2	704.9	1.5	0.0	wszechkier.	65.0	
241	I 6	422.5	705.8	1.5	0.0	wszechkier.	65.0	
242	I 7	448.8	706.2	1.5	0.0	wszechkier.	65.0	
243	I 8	470.4	706.2	1.5	0.0	wszechkier.	65.0	
244	I 9	495.4	707.0	1.5	0.0	wszechkier.	65.0	
245	I 10	518.2	708.3	1.5	0.0	wszechkier.	65.0	
246	I 11	376.8	733.7	1.5	0.0	wszechkier.	65.0	
247	I 12	401.8	733.7	1.5	0.0	wszechkier.	65.0	
248	I 13	422.5	734.1	1.5	0.0	wszechkier.	65.0	
249	I 14	447.1	734.6	1.5	0.0	wszechkier.	65.0	
250	I 15	471.2	735.4	1.5	0.0	wszechkier.	65.0	
251	I 16	494.9	737.5	1.5	0.0	wszechkier.	65.0	
252	I 17	518.6	737.1	1.5	0.0	wszechkier.	65.0	
253	I 18	539.8	737.1	1.5	0.0	wszechkier.	65.0	
254	I 19	561.4	737.5	1.5	0.0	wszechkier.	65.0	
255	I 20	591.5	737.9	1.5	0.0	wszechkier.	65.0	
256	I 21	376.0	765.0	1.5	0.0	wszechkier.	65.0	
257	I 22	400.1	764.6	1.5	0.0	wszechkier.	65.0	
258	I 23	423.8	765.5	1.5	0.0	wszechkier.	65.0	
259	I 24	447.5	765.9	1.5	0.0	wszechkier.	65.0	
260	I 25	470.0	765.0	1.5	0.0	wszechkier.	65.0	
261	I 26	496.2	766.3	1.5	0.0	wszechkier.	65.0	

262	127	520.3	765.9	1.5	0.0	wszechkier.	65.0
263	128	544.0	765.9	1.5	0.0	wszechkier.	65.0
264	129	566.5	766.3	1.5	0.0	wszechkier.	65.0
265	130	590.2	765.9	1.5	0.0	wszechkier.	65.0
266	131	375.5	793.8	1.5	0.0	wszechkier.	65.0
267	132	397.6	794.3	1.5	0.0	wszechkier.	65.0
268	133	421.3	795.5	1.5	0.0	wszechkier.	65.0
269	134	445.8	795.5	1.5	0.0	wszechkier.	65.0
270	135	470.4	795.5	1.5	0.0	wszechkier.	65.0
271	136	494.9	795.5	1.5	0.0	wszechkier.	65.0
272	137	519.1	795.1	1.5	0.0	wszechkier.	65.0
273	138	541.9	796.0	1.5	0.0	wszechkier.	65.0
274	139	566.9	796.0	1.5	0.0	wszechkier.	65.0
275	140	377.2	823.9	1.5	0.0	wszechkier.	65.0
276	141	399.2	823.9	1.5	0.0	wszechkier.	65.0
277	142	421.3	824.7	1.5	0.0	wszechkier.	65.0
278	143	446.2	825.6	1.5	0.0	wszechkier.	65.0
279	144	470.0	825.2	1.5	0.0	wszechkier.	65.0
280	145	494.5	825.2	1.5	0.0	wszechkier.	65.0
281	146	519.1	825.2	1.5	0.0	wszechkier.	65.0
282	147	543.2	826.0	1.5	0.0	wszechkier.	65.0
283	148	566.9	825.2	1.5	0.0	wszechkier.	65.0
284	149	397.6	854.0	1.5	0.0	wszechkier.	65.0
285	150	422.5	854.4	1.5	0.0	wszechkier.	65.0
286	151	445.8	854.8	1.5	0.0	wszechkier.	65.0
287	152	471.2	854.8	1.5	0.0	wszechkier.	65.0
288	153	494.5	855.6	1.5	0.0	wszechkier.	65.0
289	154	516.5	855.2	1.5	0.0	wszechkier.	65.0
290	155	542.3	856.1	1.5	0.0	wszechkier.	65.0
291	156	566.1	856.5	1.5	0.0	wszechkier.	65.0
292	157	398.4	885.3	1.5	0.0	wszechkier.	65.0
293	158	420.4	885.3	1.5	0.0	wszechkier.	65.0
294	159	444.5	884.9	1.5	0.0	wszechkier.	65.0
295	160	468.7	885.3	1.5	0.0	wszechkier.	65.0
296	161	493.2	885.3	1.5	0.0	wszechkier.	65.0
297	162	516.9	885.3	1.5	0.0	wszechkier.	65.0
298	163	540.7	884.9	1.5	0.0	wszechkier.	65.0
299	164	562.2	885.3	1.5	0.0	wszechkier.	65.0
300	165	395.9	916.2	1.5	0.0	wszechkier.	65.0
301	166	422.5	916.2	1.5	0.0	wszechkier.	65.0
302	167	444.5	916.2	1.5	0.0	wszechkier.	65.0
303	168	468.3	916.2	1.5	0.0	wszechkier.	65.0
304	169	494.5	916.2	1.5	0.0	wszechkier.	65.0
305	170	518.2	915.8	1.5	0.0	wszechkier.	65.0
306	171	540.2	914.5	1.5	0.0	wszechkier.	65.0

307	I 72	397.1	942.9	1.5	0.0	wszechkier.	65.0
308	I 73	421.3	944.1	1.5	0.0	wszechkier.	65.0
309	I 74	442.4	945.0	1.5	0.0	wszechkier.	65.0
310	I 75	469.1	946.7	1.5	0.0	wszechkier.	65.0
311	I 76	491.1	946.7	1.5	0.0	wszechkier.	65.0
312	I 77	516.9	946.7	1.5	0.0	wszechkier.	65.0
313	I 78	538.1	946.7	1.5	0.0	wszechkier.	65.0
314	I 79	397.1	975.5	1.5	0.0	wszechkier.	65.0
315	I 80	418.7	975.5	1.5	0.0	wszechkier.	65.0
316	I 81	446.2	975.5	1.5	0.0	wszechkier.	65.0
317	I 82	469.5	975.5	1.5	0.0	wszechkier.	65.0
318	I 83	493.7	975.5	1.5	0.0	wszechkier.	65.0
319	I 84	517.8	975.5	1.5	0.0	wszechkier.	65.0
320	I 85	540.7	975.5	1.5	0.0	wszechkier.	65.0
321	I 86	399.7	1004.7	1.5	0.0	wszechkier.	65.0
322	I 87	419.1	1005.5	1.5	0.0	wszechkier.	65.0
323	I 88	445.8	1006.4	1.5	0.0	wszechkier.	65.0
324	I 89	467.4	1006.4	1.5	0.0	wszechkier.	65.0
325	I 90	494.5	1006.4	1.5	0.0	wszechkier.	65.0
326	I 91	518.2	1006.4	1.5	0.0	wszechkier.	65.0
327	I 92	419.1	1033.0	1.5	0.0	wszechkier.	65.0
328	I 93	444.1	1034.3	1.5	0.0	wszechkier.	65.0
329	I 94	468.7	1035.6	1.5	0.0	wszechkier.	65.0
330	I 95	492.0	1035.2	1.5	0.0	wszechkier.	65.0
331	I 96	514.4	1035.6	1.5	0.0	wszechkier.	65.0
332	I 97	493.7	1054.6	1.5	0.0	wszechkier.	65.0
333	I 98	519.5	1054.6	1.5	0.0	wszechkier.	65.0

Dz. 26 ob. Sułaszewo

334	ST 1	1129.2	1232.5	2.5	0.0	wszechkier.	77.0	77.0
335	I 1	1044.1	1200.7	1.5	0.0	wszechkier.	68.0	68.0
336	I 2	1082.2	1202.0	1.5	0.0	wszechkier.	68.0	68.0
337	I 3	1122.0	1202.4	1.5	0.0	wszechkier.	68.0	68.0
338	I 4	1043.2	1167.7	1.5	0.0	wszechkier.	68.0	68.0
339	I 5	1084.3	1168.1	1.5	0.0	wszechkier.	68.0	68.0
340	I 6	1122.0	1168.5	1.5	0.0	wszechkier.	68.0	68.0
341	I 7	1045.3	1134.7	1.5	0.0	wszechkier.	68.0	68.0
342	I 8	1084.3	1134.7	1.5	0.0	wszechkier.	68.0	68.0
343	I 9	1123.2	1135.5	1.5	0.0	wszechkier.	68.0	68.0
344	I 10	1044.9	1102.1	1.5	0.0	wszechkier.	68.0	68.0
345	I 11	1082.6	1102.5	1.5	0.0	wszechkier.	68.0	68.0
346	I 12	1121.5	1102.5	1.5	0.0	wszechkier.	68.0	68.0
347	I 13	1162.2	1103.3	1.5	0.0	wszechkier.	68.0	68.0
348	I 14	1045.7	1070.3	1.5	0.0	wszechkier.	68.0	68.0
349	I 15	1083.8	1069.9	1.5	0.0	wszechkier.	68.0	68.0
350	I 16	1122.4	1070.7	1.5	0.0	wszechkier.	68.0	68.0

351	I 17	1161.8	1069.9	1.5	0.0	wszechkier.	68.0	68.0
352	I 18	1084.3	1036.9	1.5	0.0	wszechkier.	68.0	68.0
353	I 19	1124.1	1036.9	1.5	0.0	wszechkier.	68.0	68.0
354	I 20	1162.6	1037.3	1.5	0.0	wszechkier.	68.0	68.0
355	I 21	1083.8	1004.7	1.5	0.0	wszechkier.	68.0	68.0
356	I 22	1123.6	1004.7	1.5	0.0	wszechkier.	68.0	68.0
357	I 23	1161.3	1004.7	1.5	0.0	wszechkier.	68.0	68.0
358	I 24	1084.3	970.0	1.5	0.0	wszechkier.	68.0	68.0
359	I 25	1122.8	970.8	1.5	0.0	wszechkier.	68.0	68.0
360	I 26	1163.9	970.8	1.5	0.0	wszechkier.	68.0	68.0
361	I 27	1084.7	938.2	1.5	0.0	wszechkier.	68.0	68.0
362	I 28	1123.2	937.8	1.5	0.0	wszechkier.	68.0	68.0

Dz. 27

363	ST 1	1001.3	1196.0	2.5	0.0	wszechkier.	80.0	80.0
364	ST 2	994.5	1193.9	2.5	0.0	wszechkier.	80.0	80.0
365	ST 3	986.5	1191.8	2.5	0.0	wszechkier.	80.0	80.0
366	ST 4	980.1	1189.7	2.5	0.0	wszechkier.	80.0	80.0
367	ST 5	971.7	1187.6	2.5	0.0	wszechkier.	80.0	80.0
368	ST 6	963.2	1185.9	2.5	0.0	wszechkier.	80.0	80.0
369	ST 7	955.1	1183.8	2.5	0.0	wszechkier.	80.0	80.0
370	ST 8	948.8	1180.8	2.5	0.0	wszechkier.	80.0	80.0
371	ST 9	940.7	1178.7	2.5	0.0	wszechkier.	80.0	80.0
372	ST 10	931.9	1176.1	2.5	0.0	wszechkier.	80.0	80.0
373	I 1	939.1	1171.9	1.5	0.0	wszechkier.	68.0	68.0
374	I 2	961.9	1171.9	1.5	0.0	wszechkier.	68.0	68.0
375	I 3	983.5	1173.2	1.5	0.0	wszechkier.	68.0	68.0
376	I 4	1004.7	1173.2	1.5	0.0	wszechkier.	68.0	68.0
377	I 5	895.4	1146.9	1.5	0.0	wszechkier.	68.0	68.0
378	I 6	918.7	1147.8	1.5	0.0	wszechkier.	68.0	68.0
379	I 7	940.7	1147.4	1.5	0.0	wszechkier.	68.0	68.0
380	I 8	962.3	1148.2	1.5	0.0	wszechkier.	68.0	68.0
381	I 9	983.5	1148.2	1.5	0.0	wszechkier.	68.0	68.0
382	I 10	1006.8	1148.6	1.5	0.0	wszechkier.	68.0	68.0
383	I 11	895.9	1122.4	1.5	0.0	wszechkier.	68.0	68.0
384	I 12	917.0	1121.5	1.5	0.0	wszechkier.	68.0	68.0
385	I 13	937.8	1121.5	1.5	0.0	wszechkier.	68.0	68.0
386	I 14	960.6	1122.4	1.5	0.0	wszechkier.	68.0	68.0
387	I 15	982.2	1123.2	1.5	0.0	wszechkier.	68.0	68.0
388	I 16	1006.4	1122.8	1.5	0.0	wszechkier.	68.0	68.0
389	I 17	897.1	1096.1	1.5	0.0	wszechkier.	68.0	68.0
390	I 18	919.6	1096.6	1.5	0.0	wszechkier.	68.0	68.0
391	I 19	940.3	1097.8	1.5	0.0	wszechkier.	68.0	68.0
392	I 20	963.2	1097.0	1.5	0.0	wszechkier.	68.0	68.0
393	I 21	983.5	1097.0	1.5	0.0	wszechkier.	68.0	68.0
394	I 22	1007.2	1098.2	1.5	0.0	wszechkier.	68.0	68.0

395	I 23	898.4	1072.8	1.5	0.0	wszechkier.	68.0	68.0
396	I 24	917.5	1071.6	1.5	0.0	wszechkier.	68.0	68.0
397	I 25	940.7	1070.3	1.5	0.0	wszechkier.	68.0	68.0
398	I 26	962.3	1070.7	1.5	0.0	wszechkier.	68.0	68.0
399	I 27	985.2	1072.4	1.5	0.0	wszechkier.	68.0	68.0
400	I 28	1008.1	1072.4	1.5	0.0	wszechkier.	68.0	68.0
401	I 29	1029.7	1072.4	1.5	0.0	wszechkier.	68.0	68.0
402	I 30	919.2	1047.0	1.5	0.0	wszechkier.	68.0	68.0
403	I 31	939.9	1046.6	1.5	0.0	wszechkier.	68.0	68.0
404	I 32	961.9	1047.4	1.5	0.0	wszechkier.	68.0	68.0
405	I 33	985.2	1048.3	1.5	0.0	wszechkier.	68.0	68.0
406	I 34	1007.2	1048.3	1.5	0.0	wszechkier.	68.0	68.0
407	I 35	1028.4	1047.4	1.5	0.0	wszechkier.	68.0	68.0
408	I 36	919.6	1022.0	1.5	0.0	wszechkier.	68.0	68.0
409	I 37	940.3	1022.0	1.5	0.0	wszechkier.	68.0	68.0
410	I 38	962.3	1022.0	1.5	0.0	wszechkier.	68.0	68.0
411	I 39	985.2	1022.9	1.5	0.0	wszechkier.	68.0	68.0
412	I 40	1006.8	1022.5	1.5	0.0	wszechkier.	68.0	68.0
413	I 41	1030.9	1022.5	1.5	0.0	wszechkier.	68.0	68.0
414	I 42	918.3	996.6	1.5	0.0	wszechkier.	68.0	68.0
415	I 43	941.2	996.2	1.5	0.0	wszechkier.	68.0	68.0
416	I 44	962.3	997.5	1.5	0.0	wszechkier.	68.0	68.0
417	I 45	986.5	998.3	1.5	0.0	wszechkier.	68.0	68.0
418	I 46	1009.3	997.9	1.5	0.0	wszechkier.	68.0	68.0
419	I 47	1031.3	997.5	1.5	0.0	wszechkier.	68.0	68.0
420	I 48	940.7	972.1	1.5	0.0	wszechkier.	68.0	68.0
421	I 49	962.8	973.3	1.5	0.0	wszechkier.	68.0	68.0
422	I 50	986.0	973.3	1.5	0.0	wszechkier.	68.0	68.0
423	I 51	1008.1	973.8	1.5	0.0	wszechkier.	68.0	68.0
424	I 52	1028.8	974.2	1.5	0.0	wszechkier.	68.0	68.0
425	I 53	1048.7	973.8	1.5	0.0	wszechkier.	68.0	68.0
426	I 54	941.6	946.7	1.5	0.0	wszechkier.	68.0	68.0
427	I 55	962.8	946.7	1.5	0.0	wszechkier.	68.0	68.0
428	I 56	986.5	947.9	1.5	0.0	wszechkier.	68.0	68.0
429	I 57	1008.5	947.9	1.5	0.0	wszechkier.	68.0	68.0
430	I 58	1030.1	947.9	1.5	0.0	wszechkier.	68.0	68.0
431	I 59	1052.5	947.5	1.5	0.0	wszechkier.	68.0	68.0
432	I 60	942.0	923.4	1.5	0.0	wszechkier.	68.0	68.0
433	I 61	963.2	923.4	1.5	0.0	wszechkier.	68.0	68.0
434	I 62	984.8	923.8	1.5	0.0	wszechkier.	68.0	68.0
435	I 63	1008.9	923.4	1.5	0.0	wszechkier.	68.0	68.0
436	I 64	1032.2	923.0	1.5	0.0	wszechkier.	68.0	68.0
437	I 65	1052.5	922.5	1.5	0.0	wszechkier.	68.0	68.0
438	I 66	943.7	897.6	1.5	0.0	wszechkier.	68.0	68.0
439	I 67	964.0	898.0	1.5	0.0	wszechkier.	68.0	68.0

440	I 68	984.4	898.0	1.5	0.0	wszechkier.	68.0	68.0
441	I 69	1005.9	900.5	1.5	0.0	wszechkier.	68.0	68.0
442	I 70	1029.2	900.1	1.5	0.0	wszechkier.	68.0	68.0
Dz. 84/7								
443	ST 1	1170.6	1417.5	2.5	0.0	wszechkier.	80.0	80.0
444	ST 2	1177.4	1415.4	2.5	0.0	wszechkier.	80.0	80.0
445	ST 3	1186.3	1413.2	2.5	0.0	wszechkier.	80.0	80.0
446	ST 4	1192.2	1411.1	2.5	0.0	wszechkier.	80.0	80.0
447	ST 5	1199.9	1408.2	2.5	0.0	wszechkier.	80.0	80.0
448	ST 6	1206.6	1406.5	2.5	0.0	wszechkier.	80.0	80.0
449	ST 7	1214.2	1403.9	2.5	0.0	wszechkier.	80.0	80.0
450	ST 8	1220.6	1401.4	2.5	0.0	wszechkier.	80.0	80.0
451	ST 9	1228.6	1398.0	2.5	0.0	wszechkier.	80.0	80.0
452	ST 10	1235.8	1395.9	2.5	0.0	wszechkier.	80.0	80.0
453	I 1	1190.1	1392.9	1.5	0.0	wszechkier.	68.0	68.0
454	I 2	1209.2	1393.3	1.5	0.0	wszechkier.	68.0	68.0
455	I 3	1188.4	1369.6	1.5	0.0	wszechkier.	68.0	68.0
456	I 4	1210.4	1368.4	1.5	0.0	wszechkier.	68.0	68.0
457	I 5	1229.9	1367.9	1.5	0.0	wszechkier.	68.0	68.0
458	I 6	1247.7	1368.4	1.5	0.0	wszechkier.	68.0	68.0
459	I 7	1269.3	1367.5	1.5	0.0	wszechkier.	68.0	68.0
460	I 8	1208.7	1343.4	1.5	0.0	wszechkier.	68.0	68.0
461	I 9	1227.4	1343.0	1.5	0.0	wszechkier.	68.0	68.0
462	I 10	1251.5	1342.1	1.5	0.0	wszechkier.	68.0	68.0
463	I 11	1267.6	1343.0	1.5	0.0	wszechkier.	68.0	68.0
464	I 12	1287.5	1343.0	1.5	0.0	wszechkier.	68.0	68.0
465	I 13	1213.0	1316.3	1.5	0.0	wszechkier.	68.0	68.0
466	I 14	1231.2	1317.6	1.5	0.0	wszechkier.	68.0	68.0
467	I 15	1248.5	1317.1	1.5	0.0	wszechkier.	68.0	68.0
468	I 16	1268.0	1315.4	1.5	0.0	wszechkier.	68.0	68.0
469	I 17	1290.5	1315.4	1.5	0.0	wszechkier.	68.0	68.0
470	I 18	1212.6	1291.3	1.5	0.0	wszechkier.	68.0	68.0
471	I 19	1233.3	1290.5	1.5	0.0	wszechkier.	68.0	68.0
472	I 20	1250.2	1290.9	1.5	0.0	wszechkier.	68.0	68.0
473	I 21	1269.7	1290.9	1.5	0.0	wszechkier.	68.0	68.0
474	I 22	1288.8	1290.0	1.5	0.0	wszechkier.	68.0	68.0
475	I 23	1210.9	1264.6	1.5	0.0	wszechkier.	68.0	68.0
476	I 24	1231.6	1263.8	1.5	0.0	wszechkier.	68.0	68.0
477	I 25	1249.4	1264.2	1.5	0.0	wszechkier.	68.0	68.0
478	I 26	1269.3	1264.2	1.5	0.0	wszechkier.	68.0	68.0
479	I 27	1291.3	1264.6	1.5	0.0	wszechkier.	68.0	68.0
480	I 28	1229.5	1239.2	1.5	0.0	wszechkier.	68.0	68.0
481	I 29	1248.5	1239.2	1.5	0.0	wszechkier.	68.0	68.0
482	I 30	1270.6	1239.2	1.5	0.0	wszechkier.	68.0	68.0
483	I 31	1292.6	1238.8	1.5	0.0	wszechkier.	68.0	68.0

484	I 32	1310.4	1238.4	1.5	0.0	wszechkier.	68.0	68.0
485	I 33	1230.3	1212.1	1.5	0.0	wszechkier.	68.0	68.0
486	I 34	1248.5	1212.1	1.5	0.0	wszechkier.	68.0	68.0
487	I 35	1270.6	1213.8	1.5	0.0	wszechkier.	68.0	68.0
488	I 36	1290.9	1213.4	1.5	0.0	wszechkier.	68.0	68.0
489	I 37	1310.4	1211.7	1.5	0.0	wszechkier.	68.0	68.0
490	I 38	1231.2	1185.9	1.5	0.0	wszechkier.	68.0	68.0
491	I 39	1251.5	1185.5	1.5	0.0	wszechkier.	68.0	68.0
492	I 40	1270.6	1187.2	1.5	0.0	wszechkier.	68.0	68.0
493	I 41	1292.2	1186.7	1.5	0.0	wszechkier.	68.0	68.0
494	I 42	1312.9	1186.3	1.5	0.0	wszechkier.	68.0	68.0
495	I 43	1252.4	1161.3	1.5	0.0	wszechkier.	68.0	68.0
496	I 44	1271.0	1160.1	1.5	0.0	wszechkier.	68.0	68.0
497	I 45	1293.0	1160.5	1.5	0.0	wszechkier.	68.0	68.0
498	I 46	1312.9	1161.8	1.5	0.0	wszechkier.	68.0	68.0
499	I 47	1330.3	1161.8	1.5	0.0	wszechkier.	68.0	68.0
500	I 48	1251.1	1136.8	1.5	0.0	wszechkier.	68.0	68.0
501	I 49	1291.7	1134.7	1.5	0.0	wszechkier.	68.0	68.0
502	I 50	1311.2	1134.7	1.5	0.0	wszechkier.	68.0	68.0
503	I 51	1330.7	1134.7	1.5	0.0	wszechkier.	68.0	68.0
504	I 52	1289.6	1108.4	1.5	0.0	wszechkier.	68.0	68.0
505	I 53	1310.4	1109.7	1.5	0.0	wszechkier.	68.0	68.0
506	I 54	1330.7	1109.7	1.5	0.0	wszechkier.	68.0	68.0
507	I 55	1272.7	1081.3	1.5	0.0	wszechkier.	68.0	68.0
508	I 56	1291.7	1082.2	1.5	0.0	wszechkier.	68.0	68.0
509	I 57	1312.5	1082.6	1.5	0.0	wszechkier.	68.0	68.0
510	I 58	1330.7	1083.0	1.5	0.0	wszechkier.	68.0	68.0
511	I 59	1350.6	1083.0	1.5	0.0	wszechkier.	68.0	68.0
512	I 60	1270.6	1055.5	1.5	0.0	wszechkier.	68.0	68.0
513	I 61	1290.9	1055.9	1.5	0.0	wszechkier.	68.0	68.0
514	I 62	1312.9	1055.5	1.5	0.0	wszechkier.	68.0	68.0
515	I 63	1331.5	1057.2	1.5	0.0	wszechkier.	68.0	68.0
516	I 64	1353.5	1057.2	1.5	0.0	wszechkier.	68.0	68.0
517	I 65	1293.0	1031.3	1.5	0.0	wszechkier.	68.0	68.0
518	I 66	1313.7	1030.5	1.5	0.0	wszechkier.	68.0	68.0
519	I 67	1331.1	1032.6	1.5	0.0	wszechkier.	68.0	68.0
520	I 68	1351.8	1031.3	1.5	0.0	wszechkier.	68.0	68.0
521	I 69	1291.3	1006.4	1.5	0.0	wszechkier.	68.0	68.0
522	I 70	1311.6	1005.5	1.5	0.0	wszechkier.	68.0	68.0
Dz. 24/1, 25/2								
523	ST 1	965.3	1524.6	2.5	0.0	wszechkier.	83.0	83.0
524	ST 2	955.6	1521.2	2.5	0.0	wszechkier.	83.0	83.0
525	ST 3	943.3	1518.7	2.5	0.0	wszechkier.	83.0	83.0
526	ST 4	931.4	1515.7	2.5	0.0	wszechkier.	83.0	83.0
527	ST 5	924.2	1514.0	2.5	0.0	wszechkier.	83.0	83.0

528	ST 6	917.9	1512.3	2.5	0.0	wszechkier.	83.0	83.0
529	ST 7	910.7	1511.0	2.5	0.0	wszechkier.	83.0	83.0
530	ST 8	903.5	1509.3	2.5	0.0	wszechkier.	83.0	83.0
531	I 1	697.3	1451.3	1.5	0.0	wszechkier.	68.0	68.0
532	I 2	735.8	1458.5	1.5	0.0	wszechkier.	68.0	68.0
533	I 3	781.1	1468.7	1.5	0.0	wszechkier.	68.0	68.0
534	I 4	830.2	1480.1	1.5	0.0	wszechkier.	68.0	68.0
535	I 5	873.4	1485.2	1.5	0.0	wszechkier.	68.0	68.0
536	I 6	912.4	1490.3	1.5	0.0	wszechkier.	68.0	68.0
537	I 7	946.7	1494.5	1.5	0.0	wszechkier.	68.0	68.0
538	I 8	638.9	1434.8	1.5	0.0	wszechkier.	68.0	68.0
539	I 9	699.8	1434.4	1.5	0.0	wszechkier.	68.0	68.0
540	I 10	744.3	1433.6	1.5	0.0	wszechkier.	68.0	68.0
541	I 11	784.9	1436.1	1.5	0.0	wszechkier.	68.0	68.0
542	I 12	836.6	1439.9	1.5	0.0	wszechkier.	68.0	68.0
543	I 13	874.7	1451.3	1.5	0.0	wszechkier.	68.0	68.0
544	I 14	911.1	1461.9	1.5	0.0	wszechkier.	68.0	68.0
545	I 15	952.6	1467.0	1.5	0.0	wszechkier.	68.0	68.0
546	I 16	539.4	1408.6	1.5	0.0	wszechkier.	68.0	68.0
547	I 17	638.9	1390.0	1.5	0.0	wszechkier.	68.0	68.0
548	I 18	706.6	1397.6	1.5	0.0	wszechkier.	68.0	68.0
549	I 19	747.3	1401.8	1.5	0.0	wszechkier.	68.0	68.0
550	I 20	796.4	1401.0	1.5	0.0	wszechkier.	68.0	68.0
551	I 21	839.1	1409.0	1.5	0.0	wszechkier.	68.0	68.0
552	I 22	878.5	1425.9	1.5	0.0	wszechkier.	68.0	68.0
553	I 23	923.0	1434.0	1.5	0.0	wszechkier.	68.0	68.0
554	I 24	956.4	1436.5	1.5	0.0	wszechkier.	68.0	68.0
555	I 25	504.2	1396.7	1.5	0.0	wszechkier.	68.0	68.0
556	I 26	558.0	1387.0	1.5	0.0	wszechkier.	68.0	68.0
557	I 27	459.4	1353.5	1.5	0.0	wszechkier.	68.0	68.0
558	I 28	506.8	1368.8	1.5	0.0	wszechkier.	68.0	68.0
559	I 29	565.2	1346.8	1.5	0.0	wszechkier.	68.0	68.0
560	I 30	641.0	1346.3	1.5	0.0	wszechkier.	68.0	68.0
561	I 31	707.9	1358.2	1.5	0.0	wszechkier.	68.0	68.0
562	I 32	755.3	1359.9	1.5	0.0	wszechkier.	68.0	68.0
563	I 33	794.3	1363.3	1.5	0.0	wszechkier.	68.0	68.0
564	I 34	849.3	1363.3	1.5	0.0	wszechkier.	68.0	68.0
565	I 35	882.7	1391.2	1.5	0.0	wszechkier.	68.0	68.0
566	I 36	917.9	1401.0	1.5	0.0	wszechkier.	68.0	68.0
567	I 37	965.3	1413.7	1.5	0.0	wszechkier.	68.0	68.0
568	I 38	1010.2	1414.9	1.5	0.0	wszechkier.	68.0	68.0
569	I 39	1035.2	1412.8	1.5	0.0	wszechkier.	68.0	68.0
570	I 40	1058.0	1414.5	1.5	0.0	wszechkier.	68.0	68.0
571	I 41	1082.6	1418.7	1.5	0.0	wszechkier.	68.0	68.0
572	I 42	500.4	1337.5	1.5	0.0	wszechkier.	68.0	68.0

573	143	513.1	1313.7	1.5	0.0	wszechkier.	68.0	68.0
574	144	567.3	1308.2	1.5	0.0	wszechkier.	68.0	68.0
575	145	637.2	1302.3	1.5	0.0	wszechkier.	68.0	68.0
576	146	716.4	1317.6	1.5	0.0	wszechkier.	68.0	68.0
577	147	765.0	1320.9	1.5	0.0	wszechkier.	68.0	68.0
578	148	804.0	1326.9	1.5	0.0	wszechkier.	68.0	68.0
579	149	854.0	1331.1	1.5	0.0	wszechkier.	68.0	68.0
580	150	898.8	1361.2	1.5	0.0	wszechkier.	68.0	68.0
581	151	933.1	1378.5	1.5	0.0	wszechkier.	68.0	68.0
582	152	949.2	1359.9	1.5	0.0	wszechkier.	68.0	68.0
583	153	982.2	1376.8	1.5	0.0	wszechkier.	68.0	68.0
584	154	1016.5	1368.4	1.5	0.0	wszechkier.	68.0	68.0
585	155	1036.4	1370.1	1.5	0.0	wszechkier.	68.0	68.0
586	156	1065.2	1374.3	1.5	0.0	wszechkier.	68.0	68.0
587	157	1091.9	1382.8	1.5	0.0	wszechkier.	68.0	68.0
588	158	1065.2	1360.3	1.5	0.0	wszechkier.	68.0	68.0
589	159	1087.7	1367.5	1.5	0.0	wszechkier.	68.0	68.0
590	160	1095.7	1343.8	1.5	0.0	wszechkier.	68.0	68.0
591	161	1099.9	1324.3	1.5	0.0	wszechkier.	68.0	68.0
592	162	1075.8	1322.6	1.5	0.0	wszechkier.	68.0	68.0
593	163	1041.9	1323.9	1.5	0.0	wszechkier.	68.0	68.0
594	164	983.9	1324.3	1.5	0.0	wszechkier.	68.0	68.0
595	165	944.6	1322.2	1.5	0.0	wszechkier.	68.0	68.0
596	166	896.7	1321.8	1.5	0.0	wszechkier.	68.0	68.0
597	167	457.2	1293.0	1.5	0.0	wszechkier.	68.0	68.0
598	168	507.6	1282.8	1.5	0.0	wszechkier.	68.0	68.0
599	169	803.6	1293.8	1.5	0.0	wszechkier.	68.0	68.0
600	170	859.0	1296.8	1.5	0.0	wszechkier.	68.0	68.0
601	171	1038.1	1292.2	1.5	0.0	wszechkier.	68.0	68.0
602	172	1076.2	1290.0	1.5	0.0	wszechkier.	68.0	68.0
603	173	1100.4	1298.1	1.5	0.0	wszechkier.	68.0	68.0
604	174	449.2	1229.5	1.5	0.0	wszechkier.	68.0	68.0
605	175	511.4	1249.4	1.5	0.0	wszechkier.	68.0	68.0
606	176	572.4	1266.7	1.5	0.0	wszechkier.	68.0	68.0
607	177	641.4	1270.6	1.5	0.0	wszechkier.	68.0	68.0
608	178	721.0	1265.1	1.5	0.0	wszechkier.	68.0	68.0
609	179	774.4	1272.7	1.5	0.0	wszechkier.	68.0	68.0
610	180	815.4	1270.1	1.5	0.0	wszechkier.	68.0	68.0
611	181	860.7	1261.7	1.5	0.0	wszechkier.	68.0	68.0
612	182	908.6	1285.8	1.5	0.0	wszechkier.	68.0	68.0
613	183	957.3	1278.6	1.5	0.0	wszechkier.	68.0	68.0
614	184	1014.8	1260.4	1.5	0.0	wszechkier.	68.0	68.0
615	185	1052.1	1244.7	1.5	0.0	wszechkier.	68.0	68.0
616	186	1085.5	1254.9	1.5	0.0	wszechkier.	68.0	68.0
617	187	1108.4	1271.0	1.5	0.0	wszechkier.	68.0	68.0

618	I 88	899.7	1255.3	1.5	0.0	wszechkier.	68.0	68.0
619	I 89	945.0	1249.0	1.5	0.0	wszechkier.	68.0	68.0
620	I 90	984.8	1223.6	1.5	0.0	wszechkier.	68.0	68.0
621	I 91	456.0	1183.8	1.5	0.0	wszechkier.	68.0	68.0
622	I 92	525.8	1207.9	1.5	0.0	wszechkier.	68.0	68.0
623	I 93	583.4	1198.2	1.5	0.0	wszechkier.	68.0	68.0
624	I 94	644.8	1226.1	1.5	0.0	wszechkier.	68.0	68.0
625	I 95	651.2	1192.2	1.5	0.0	wszechkier.	68.0	68.0
626	I 96	726.9	1224.8	1.5	0.0	wszechkier.	68.0	68.0
627	I 97	780.3	1242.6	1.5	0.0	wszechkier.	68.0	68.0
628	I 98	749.8	1193.9	1.5	0.0	wszechkier.	68.0	68.0
629	I 99	825.6	1182.5	1.5	0.0	wszechkier.	68.0	68.0
630	I 100	867.5	1215.9	1.5	0.0	wszechkier.	68.0	68.0
631	I 101	935.7	1200.7	1.5	0.0	wszechkier.	68.0	68.0
632	I 102	1020.8	1228.6	1.5	0.0	wszechkier.	68.0	68.0
633	I 103	472.9	1150.3	1.5	0.0	wszechkier.	68.0	68.0
634	I 104	531.3	1177.8	1.5	0.0	wszechkier.	68.0	68.0
635	I 105	536.4	1138.9	1.5	0.0	wszechkier.	68.0	68.0
636	I 106	596.5	1145.2	1.5	0.0	wszechkier.	68.0	68.0
637	I 107	663.9	1157.1	1.5	0.0	wszechkier.	68.0	68.0
638	I 108	733.7	1146.5	1.5	0.0	wszechkier.	68.0	68.0
639	I 109	504.7	1086.8	1.5	0.0	wszechkier.	68.0	68.0
640	I 110	554.6	1102.5	1.5	0.0	wszechkier.	68.0	68.0
641	I 111	642.3	1115.2	1.5	0.0	wszechkier.	68.0	68.0
642	I 112	441.6	1069.9	1.5	0.0	wszechkier.	68.0	68.0

Dz. 119

643	ST 1	1331.1	495.8	2.5	0.0	wszechkier.	80.0	80.0
644	ST 2	1343.4	498.7	2.5	0.0	wszechkier.	80.0	80.0
645	ST 3	1354.4	501.7	2.5	0.0	wszechkier.	80.0	80.0
646	ST 4	1367.9	505.1	2.5	0.0	wszechkier.	80.0	80.0
647	ST 5	1381.1	508.9	2.5	0.0	wszechkier.	80.0	80.0
648	ST 6	1396.3	513.1	2.5	0.0	wszechkier.	80.0	80.0

Farmy wiatrowe

649	FW 1	444.5	1121.5	100.0	0.0	wszechkier.	105.0	105.0
650	FW 2	1262.5	1114.8	100.0	0.0	wszechkier.	105.0	105.0
651	FW 3	-216.8	189.7	100.0	0.0	wszechkier.	105.0	105.0

z - wysokość źródła nad gruntem ; ht - wysokość gruntu względem płaszczyzny odniesienia
LAW 8hD - równoważny poziom mocy akustycznej źródła w przedziale 8 kolejnych najmniej
korzystnych godzin dnia

LAW 1hN - równoważny poziom mocy akustycznej źródła w przedziale 1 najmniej korzystnej
godziny nocy

LAeq , pory dnia i nocy

Nr	Współrzędne punktów			Wysokość		Poziom dźwięku w porze	
	punktu	x	y	z	terenu	dnia	nocy
		m	m	m	m	dB(A)	dB(A)
1	-500.0	2150.0	4.0	0.0	30.7	30.7	
2	-450.0	2150.0	4.0	0.0	31.0	31.0	
3	-400.0	2150.0	4.0	0.0	31.2	31.2	
4	-350.0	2150.0	4.0	0.0	31.4	31.4	
5	-300.0	2150.0	4.0	0.0	31.6	31.6	
6	-250.0	2150.0	4.0	0.0	31.8	31.8	
7	-200.0	2150.0	4.0	0.0	32.0	32.0	
8	-150.0	2150.0	4.0	0.0	32.2	32.2	
9	-100.0	2150.0	4.0	0.0	32.4	32.4	
10	-50.0	2150.0	4.0	0.0	32.6	32.6	
11	0.0	2150.0	4.0	0.0	32.8	32.8	
12	50.0	2150.0	4.0	0.0	33.0	33.0	
13	100.0	2150.0	4.0	0.0	33.2	33.2	
14	150.0	2150.0	4.0	0.0	33.4	33.4	
15	200.0	2150.0	4.0	0.0	33.5	33.5	
16	250.0	2150.0	4.0	0.0	33.7	33.7	
17	300.0	2150.0	4.0	0.0	33.8	33.8	
18	350.0	2150.0	4.0	0.0	33.9	33.9	
19	400.0	2150.0	4.0	0.0	34.1	34.1	
20	450.0	2150.0	4.0	0.0	34.2	34.2	
21	500.0	2150.0	4.0	0.0	34.3	34.3	
22	550.0	2150.0	4.0	0.0	34.4	34.4	
23	600.0	2150.0	4.0	0.0	34.5	34.5	
24	650.0	2150.0	4.0	0.0	34.5	34.5	
25	700.0	2150.0	4.0	0.0	34.6	34.6	
26	750.0	2150.0	4.0	0.0	34.6	34.6	
27	800.0	2150.0	4.0	0.0	34.7	34.7	
28	850.0	2150.0	4.0	0.0	34.7	34.7	
29	900.0	2150.0	4.0	0.0	34.7	34.7	
30	950.0	2150.0	4.0	0.0	34.7	34.7	
31	1000.0	2150.0	4.0	0.0	34.7	34.7	
32	1050.0	2150.0	4.0	0.0	34.7	34.7	
33	1100.0	2150.0	4.0	0.0	34.6	34.6	
34	1150.0	2150.0	4.0	0.0	34.6	34.6	
35	1200.0	2150.0	4.0	0.0	34.5	34.5	
36	1250.0	2150.0	4.0	0.0	34.4	34.4	
37	1300.0	2150.0	4.0	0.0	34.3	34.3	

38	1350.0	2150.0	4.0	0.0	34.2	34.2
39	1400.0	2150.0	4.0	0.0	34.1	34.1
40	1450.0	2150.0	4.0	0.0	33.9	33.9
41	1500.0	2150.0	4.0	0.0	33.7	33.7
42	1550.0	2150.0	4.0	0.0	33.6	33.6
43	1600.0	2150.0	4.0	0.0	33.4	33.4
44	1650.0	2150.0	4.0	0.0	33.2	33.2
45	1700.0	2150.0	4.0	0.0	33.0	33.0
46	1750.0	2150.0	4.0	0.0	32.7	32.7
47	1800.0	2150.0	4.0	0.0	32.5	32.5
48	1850.0	2150.0	4.0	0.0	32.3	32.3
49	1900.0	2150.0	4.0	0.0	32.0	32.0
50	1950.0	2150.0	4.0	0.0	31.8	31.8
51	2000.0	2150.0	4.0	0.0	31.5	31.5
52	2050.0	2150.0	4.0	0.0	31.2	31.2
53	2100.0	2150.0	4.0	0.0	31.0	31.0
54	2150.0	2150.0	4.0	0.0	30.7	30.7
55	-500.0	2100.0	4.0	0.0	31.0	31.0
56	-450.0	2100.0	4.0	0.0	31.2	31.2
57	-400.0	2100.0	4.0	0.0	31.5	31.5
58	-350.0	2100.0	4.0	0.0	31.7	31.7
59	-300.0	2100.0	4.0	0.0	31.9	31.9
60	-250.0	2100.0	4.0	0.0	32.1	32.1
61	-200.0	2100.0	4.0	0.0	32.3	32.3
62	-150.0	2100.0	4.0	0.0	32.6	32.6
63	-100.0	2100.0	4.0	0.0	32.8	32.8
64	-50.0	2100.0	4.0	0.0	33.0	33.0
65	0.0	2100.0	4.0	0.0	33.2	33.2
66	50.0	2100.0	4.0	0.0	33.4	33.4
67	100.0	2100.0	4.0	0.0	33.6	33.6
68	150.0	2100.0	4.0	0.0	33.7	33.7
69	200.0	2100.0	4.0	0.0	33.9	33.9
70	250.0	2100.0	4.0	0.0	34.1	34.1
71	300.0	2100.0	4.0	0.0	34.2	34.2
72	350.0	2100.0	4.0	0.0	34.4	34.4
73	400.0	2100.0	4.0	0.0	34.5	34.5
74	450.0	2100.0	4.0	0.0	34.6	34.6
75	500.0	2100.0	4.0	0.0	34.7	34.7
76	550.0	2100.0	4.0	0.0	34.8	34.8
77	600.0	2100.0	4.0	0.0	34.9	34.9
78	650.0	2100.0	4.0	0.0	35.0	35.0
79	700.0	2100.0	4.0	0.0	35.1	35.1
80	750.0	2100.0	4.0	0.0	35.1	35.1
81	800.0	2100.0	4.0	0.0	35.1	35.1
82	850.0	2100.0	4.0	0.0	35.2	35.2

83	900.0	2100.0	4.0	0.0	35.2	35.2
84	950.0	2100.0	4.0	0.0	35.2	35.2
85	1000.0	2100.0	4.0	0.0	35.2	35.2
86	1050.0	2100.0	4.0	0.0	35.2	35.2
87	1100.0	2100.0	4.0	0.0	35.1	35.1
88	1150.0	2100.0	4.0	0.0	35.1	35.1
89	1200.0	2100.0	4.0	0.0	35.0	35.0
90	1250.0	2100.0	4.0	0.0	34.9	34.9
91	1300.0	2100.0	4.0	0.0	34.8	34.8
92	1350.0	2100.0	4.0	0.0	34.7	34.7
93	1400.0	2100.0	4.0	0.0	34.5	34.5
94	1450.0	2100.0	4.0	0.0	34.4	34.4
95	1500.0	2100.0	4.0	0.0	34.2	34.2
96	1550.0	2100.0	4.0	0.0	34.0	34.0
97	1600.0	2100.0	4.0	0.0	33.8	33.8
98	1650.0	2100.0	4.0	0.0	33.6	33.6
99	1700.0	2100.0	4.0	0.0	33.3	33.3
100	1750.0	2100.0	4.0	0.0	33.1	33.1
101	1800.0	2100.0	4.0	0.0	32.9	32.9
102	1850.0	2100.0	4.0	0.0	32.6	32.6
103	1900.0	2100.0	4.0	0.0	32.3	32.3
104	1950.0	2100.0	4.0	0.0	32.1	32.1
105	2000.0	2100.0	4.0	0.0	31.8	31.8
106	2050.0	2100.0	4.0	0.0	31.5	31.5
107	2100.0	2100.0	4.0	0.0	31.3	31.3
108	2150.0	2100.0	4.0	0.0	31.0	31.0
109	-500.0	2050.0	4.0	0.0	31.3	31.3
110	-450.0	2050.0	4.0	0.0	31.5	31.5
111	-400.0	2050.0	4.0	0.0	31.7	31.7
112	-350.0	2050.0	4.0	0.0	32.0	32.0
113	-300.0	2050.0	4.0	0.0	32.2	32.2
114	-250.0	2050.0	4.0	0.0	32.4	32.4
115	-200.0	2050.0	4.0	0.0	32.7	32.7
116	-150.0	2050.0	4.0	0.0	32.9	32.9
117	-100.0	2050.0	4.0	0.0	33.1	33.1
118	-50.0	2050.0	4.0	0.0	33.3	33.3
119	0.0	2050.0	4.0	0.0	33.6	33.6
120	50.0	2050.0	4.0	0.0	33.8	33.8
121	100.0	2050.0	4.0	0.0	34.0	34.0
122	150.0	2050.0	4.0	0.0	34.2	34.2
123	200.0	2050.0	4.0	0.0	34.4	34.4
124	250.0	2050.0	4.0	0.0	34.5	34.5
125	300.0	2050.0	4.0	0.0	34.7	34.7
126	350.0	2050.0	4.0	0.0	34.8	34.8
127	400.0	2050.0	4.0	0.0	35.0	35.0

128	450.0	2050.0	4.0	0.0	35.1	35.1
129	500.0	2050.0	4.0	0.0	35.2	35.2
130	550.0	2050.0	4.0	0.0	35.3	35.3
131	600.0	2050.0	4.0	0.0	35.4	35.4
132	650.0	2050.0	4.0	0.0	35.5	35.5
133	700.0	2050.0	4.0	0.0	35.5	35.5
134	750.0	2050.0	4.0	0.0	35.6	35.6
135	800.0	2050.0	4.0	0.0	35.6	35.6
136	850.0	2050.0	4.0	0.0	35.7	35.7
137	900.0	2050.0	4.0	0.0	35.7	35.7
138	950.0	2050.0	4.0	0.0	35.7	35.7
139	1000.0	2050.0	4.0	0.0	35.7	35.7
140	1050.0	2050.0	4.0	0.0	35.7	35.7
141	1100.0	2050.0	4.0	0.0	35.6	35.6
142	1150.0	2050.0	4.0	0.0	35.6	35.6
143	1200.0	2050.0	4.0	0.0	35.5	35.5
144	1250.0	2050.0	4.0	0.0	35.4	35.4
145	1300.0	2050.0	4.0	0.0	35.3	35.3
146	1350.0	2050.0	4.0	0.0	35.1	35.1
147	1400.0	2050.0	4.0	0.0	35.0	35.0
148	1450.0	2050.0	4.0	0.0	34.8	34.8
149	1500.0	2050.0	4.0	0.0	34.6	34.6
150	1550.0	2050.0	4.0	0.0	34.4	34.4
151	1600.0	2050.0	4.0	0.0	34.2	34.2
152	1650.0	2050.0	4.0	0.0	34.0	34.0
153	1700.0	2050.0	4.0	0.0	33.7	33.7
154	1750.0	2050.0	4.0	0.0	33.5	33.5
155	1800.0	2050.0	4.0	0.0	33.2	33.2
156	1850.0	2050.0	4.0	0.0	33.0	33.0
157	1900.0	2050.0	4.0	0.0	32.7	32.7
158	1950.0	2050.0	4.0	0.0	32.4	32.4
159	2000.0	2050.0	4.0	0.0	32.1	32.1
160	2050.0	2050.0	4.0	0.0	31.8	31.8
161	2100.0	2050.0	4.0	0.0	31.5	31.5
162	2150.0	2050.0	4.0	0.0	31.3	31.3
163	-500.0	2000.0	4.0	0.0	31.5	31.5
164	-450.0	2000.0	4.0	0.0	31.8	31.8
165	-400.0	2000.0	4.0	0.0	32.0	32.0
166	-350.0	2000.0	4.0	0.0	32.3	32.3
167	-300.0	2000.0	4.0	0.0	32.5	32.5
168	-250.0	2000.0	4.0	0.0	32.8	32.8
169	-200.0	2000.0	4.0	0.0	33.0	33.0
170	-150.0	2000.0	4.0	0.0	33.2	33.2
171	-100.0	2000.0	4.0	0.0	33.5	33.5
172	-50.0	2000.0	4.0	0.0	33.7	33.7

173	0.0	2000.0	4.0	0.0	34.0	34.0
174	50.0	2000.0	4.0	0.0	34.2	34.2
175	100.0	2000.0	4.0	0.0	34.4	34.4
176	150.0	2000.0	4.0	0.0	34.6	34.6
177	200.0	2000.0	4.0	0.0	34.8	34.8
178	250.0	2000.0	4.0	0.0	35.0	35.0
179	300.0	2000.0	4.0	0.0	35.1	35.1
180	350.0	2000.0	4.0	0.0	35.3	35.3
181	400.0	2000.0	4.0	0.0	35.4	35.4
182	450.0	2000.0	4.0	0.0	35.6	35.5
183	500.0	2000.0	4.0	0.0	35.7	35.7
184	550.0	2000.0	4.0	0.0	35.8	35.8
185	600.0	2000.0	4.0	0.0	35.9	35.9
186	650.0	2000.0	4.0	0.0	36.0	35.9
187	700.0	2000.0	4.0	0.0	36.0	36.0
188	750.0	2000.0	4.0	0.0	36.1	36.1
189	800.0	2000.0	4.0	0.0	36.2	36.1
190	850.0	2000.0	4.0	0.0	36.2	36.2
191	900.0	2000.0	4.0	0.0	36.2	36.2
192	950.0	2000.0	4.0	0.0	36.2	36.2
193	1000.0	2000.0	4.0	0.0	36.2	36.2
194	1050.0	2000.0	4.0	0.0	36.2	36.2
195	1100.0	2000.0	4.0	0.0	36.2	36.2
196	1150.0	2000.0	4.0	0.0	36.1	36.1
197	1200.0	2000.0	4.0	0.0	36.0	36.0
198	1250.0	2000.0	4.0	0.0	35.9	35.9
199	1300.0	2000.0	4.0	0.0	35.8	35.8
200	1350.0	2000.0	4.0	0.0	35.6	35.6
201	1400.0	2000.0	4.0	0.0	35.5	35.5
202	1450.0	2000.0	4.0	0.0	35.3	35.3
203	1500.0	2000.0	4.0	0.0	35.1	35.1
204	1550.0	2000.0	4.0	0.0	34.9	34.9
205	1600.0	2000.0	4.0	0.0	34.6	34.6
206	1650.0	2000.0	4.0	0.0	34.4	34.4
207	1700.0	2000.0	4.0	0.0	34.1	34.1
208	1750.0	2000.0	4.0	0.0	33.9	33.9
209	1800.0	2000.0	4.0	0.0	33.6	33.6
210	1850.0	2000.0	4.0	0.0	33.3	33.3
211	1900.0	2000.0	4.0	0.0	33.0	33.0
212	1950.0	2000.0	4.0	0.0	32.7	32.7
213	2000.0	2000.0	4.0	0.0	32.4	32.4
214	2050.0	2000.0	4.0	0.0	32.1	32.1
215	2100.0	2000.0	4.0	0.0	31.8	31.8
216	2150.0	2000.0	4.0	0.0	31.5	31.5
217	-500.0	1950.0	4.0	0.0	31.8	31.8

218	-450.0	1950.0	4.0	0.0	32.1	32.1
219	-400.0	1950.0	4.0	0.0	32.3	32.3
220	-350.0	1950.0	4.0	0.0	32.6	32.6
221	-300.0	1950.0	4.0	0.0	32.8	32.8
222	-250.0	1950.0	4.0	0.0	33.1	33.1
223	-200.0	1950.0	4.0	0.0	33.3	33.3
224	-150.0	1950.0	4.0	0.0	33.6	33.6
225	-100.0	1950.0	4.0	0.0	33.9	33.9
226	-50.0	1950.0	4.0	0.0	34.1	34.1
227	0.0	1950.0	4.0	0.0	34.4	34.3
228	50.0	1950.0	4.0	0.0	34.6	34.6
229	100.0	1950.0	4.0	0.0	34.8	34.8
230	150.0	1950.0	4.0	0.0	35.0	35.0
231	200.0	1950.0	4.0	0.0	35.3	35.2
232	250.0	1950.0	4.0	0.0	35.5	35.4
233	300.0	1950.0	4.0	0.0	35.6	35.6
234	350.0	1950.0	4.0	0.0	35.8	35.8
235	400.0	1950.0	4.0	0.0	35.9	35.9
236	450.0	1950.0	4.0	0.0	36.1	36.0
237	500.0	1950.0	4.0	0.0	36.2	36.2
238	550.0	1950.0	4.0	0.0	36.3	36.3
239	600.0	1950.0	4.0	0.0	36.4	36.4
240	650.0	1950.0	4.0	0.0	36.5	36.5
241	700.0	1950.0	4.0	0.0	36.6	36.6
242	750.0	1950.0	4.0	0.0	36.6	36.6
243	800.0	1950.0	4.0	0.0	36.7	36.7
244	850.0	1950.0	4.0	0.0	36.7	36.7
245	900.0	1950.0	4.0	0.0	36.8	36.8
246	950.0	1950.0	4.0	0.0	36.8	36.8
247	1000.0	1950.0	4.0	0.0	36.8	36.8
248	1050.0	1950.0	4.0	0.0	36.8	36.8
249	1100.0	1950.0	4.0	0.0	36.7	36.7
250	1150.0	1950.0	4.0	0.0	36.6	36.6
251	1200.0	1950.0	4.0	0.0	36.6	36.6
252	1250.0	1950.0	4.0	0.0	36.4	36.4
253	1300.0	1950.0	4.0	0.0	36.3	36.3
254	1350.0	1950.0	4.0	0.0	36.2	36.2
255	1400.0	1950.0	4.0	0.0	36.0	36.0
256	1450.0	1950.0	4.0	0.0	35.8	35.8
257	1500.0	1950.0	4.0	0.0	35.6	35.6
258	1550.0	1950.0	4.0	0.0	35.3	35.3
259	1600.0	1950.0	4.0	0.0	35.1	35.1
260	1650.0	1950.0	4.0	0.0	34.8	34.8
261	1700.0	1950.0	4.0	0.0	34.6	34.6
262	1750.0	1950.0	4.0	0.0	34.3	34.3

263	1800.0	1950.0	4.0	0.0	34.0	34.0
264	1850.0	1950.0	4.0	0.0	33.7	33.7
265	1900.0	1950.0	4.0	0.0	33.4	33.4
266	1950.0	1950.0	4.0	0.0	33.0	33.0
267	2000.0	1950.0	4.0	0.0	32.7	32.7
268	2050.0	1950.0	4.0	0.0	32.4	32.4
269	2100.0	1950.0	4.0	0.0	32.1	32.1
270	2150.0	1950.0	4.0	0.0	31.8	31.8
271	-500.0	1900.0	4.0	0.0	32.1	32.1
272	-450.0	1900.0	4.0	0.0	32.3	32.3
273	-400.0	1900.0	4.0	0.0	32.6	32.6
274	-350.0	1900.0	4.0	0.0	32.9	32.9
275	-300.0	1900.0	4.0	0.0	33.1	33.1
276	-250.0	1900.0	4.0	0.0	33.4	33.4
277	-200.0	1900.0	4.0	0.0	33.7	33.7
278	-150.0	1900.0	4.0	0.0	34.0	34.0
279	-100.0	1900.0	4.0	0.0	34.2	34.2
280	-50.0	1900.0	4.0	0.0	34.5	34.5
281	0.0	1900.0	4.0	0.0	34.8	34.7
282	50.0	1900.0	4.0	0.0	35.0	35.0
283	100.0	1900.0	4.0	0.0	35.3	35.2
284	150.0	1900.0	4.0	0.0	35.5	35.5
285	200.0	1900.0	4.0	0.0	35.7	35.7
286	250.0	1900.0	4.0	0.0	35.9	35.9
287	300.0	1900.0	4.0	0.0	36.1	36.1
288	350.0	1900.0	4.0	0.0	36.3	36.3
289	400.0	1900.0	4.0	0.0	36.4	36.4
290	450.0	1900.0	4.0	0.0	36.6	36.5
291	500.0	1900.0	4.0	0.0	36.7	36.7
292	550.0	1900.0	4.0	0.0	36.8	36.8
293	600.0	1900.0	4.0	0.0	36.9	36.9
294	650.0	1900.0	4.0	0.0	37.0	37.0
295	700.0	1900.0	4.0	0.0	37.1	37.1
296	750.0	1900.0	4.0	0.0	37.2	37.2
297	800.0	1900.0	4.0	0.0	37.3	37.3
298	850.0	1900.0	4.0	0.0	37.3	37.3
299	900.0	1900.0	4.0	0.0	37.4	37.4
300	950.0	1900.0	4.0	0.0	37.4	37.4
301	1000.0	1900.0	4.0	0.0	37.4	37.4
302	1050.0	1900.0	4.0	0.0	37.4	37.4
303	1100.0	1900.0	4.0	0.0	37.3	37.3
304	1150.0	1900.0	4.0	0.0	37.2	37.2
305	1200.0	1900.0	4.0	0.0	37.1	37.1
306	1250.0	1900.0	4.0	0.0	37.0	37.0
307	1300.0	1900.0	4.0	0.0	36.9	36.9

308	1350.0	1900.0	4.0	0.0	36.7	36.7
309	1400.0	1900.0	4.0	0.0	36.5	36.5
310	1450.0	1900.0	4.0	0.0	36.3	36.3
311	1500.0	1900.0	4.0	0.0	36.1	36.1
312	1550.0	1900.0	4.0	0.0	35.8	35.8
313	1600.0	1900.0	4.0	0.0	35.6	35.6
314	1650.0	1900.0	4.0	0.0	35.3	35.3
315	1700.0	1900.0	4.0	0.0	35.0	35.0
316	1750.0	1900.0	4.0	0.0	34.7	34.7
317	1800.0	1900.0	4.0	0.0	34.4	34.4
318	1850.0	1900.0	4.0	0.0	34.0	34.0
319	1900.0	1900.0	4.0	0.0	33.7	33.7
320	1950.0	1900.0	4.0	0.0	33.4	33.4
321	2000.0	1900.0	4.0	0.0	33.0	33.0
322	2050.0	1900.0	4.0	0.0	32.7	32.7
323	2100.0	1900.0	4.0	0.0	32.4	32.4
324	2150.0	1900.0	4.0	0.0	32.0	32.0
325	-500.0	1850.0	4.0	0.0	32.3	32.3
326	-450.0	1850.0	4.0	0.0	32.6	32.6
327	-400.0	1850.0	4.0	0.0	32.9	32.9
328	-350.0	1850.0	4.0	0.0	33.2	33.2
329	-300.0	1850.0	4.0	0.0	33.5	33.5
330	-250.0	1850.0	4.0	0.0	33.8	33.7
331	-200.0	1850.0	4.0	0.0	34.0	34.0
332	-150.0	1850.0	4.0	0.0	34.3	34.3
333	-100.0	1850.0	4.0	0.0	34.6	34.6
334	-50.0	1850.0	4.0	0.0	34.9	34.9
335	0.0	1850.0	4.0	0.0	35.2	35.2
336	50.0	1850.0	4.0	0.0	35.5	35.4
337	100.0	1850.0	4.0	0.0	35.7	35.7
338	150.0	1850.0	4.0	0.0	36.0	35.9
339	200.0	1850.0	4.0	0.0	36.2	36.2
340	250.0	1850.0	4.0	0.0	36.4	36.4
341	300.0	1850.0	4.0	0.0	36.6	36.6
342	350.0	1850.0	4.0	0.0	36.8	36.8
343	400.0	1850.0	4.0	0.0	37.0	36.9
344	450.0	1850.0	4.0	0.0	37.1	37.1
345	500.0	1850.0	4.0	0.0	37.2	37.2
346	550.0	1850.0	4.0	0.0	37.3	37.3
347	600.0	1850.0	4.0	0.0	37.5	37.4
348	650.0	1850.0	4.0	0.0	37.6	37.5
349	700.0	1850.0	4.0	0.0	37.7	37.6
350	750.0	1850.0	4.0	0.0	37.8	37.7
351	800.0	1850.0	4.0	0.0	37.9	37.8
352	850.0	1850.0	4.0	0.0	37.9	37.9

353	900.0	1850.0	4.0	0.0	38.0	38.0
354	950.0	1850.0	4.0	0.0	38.0	38.0
355	1000.0	1850.0	4.0	0.0	38.0	38.0
356	1050.0	1850.0	4.0	0.0	38.0	38.0
357	1100.0	1850.0	4.0	0.0	37.9	37.9
358	1150.0	1850.0	4.0	0.0	37.9	37.8
359	1200.0	1850.0	4.0	0.0	37.7	37.7
360	1250.0	1850.0	4.0	0.0	37.6	37.6
361	1300.0	1850.0	4.0	0.0	37.5	37.5
362	1350.0	1850.0	4.0	0.0	37.3	37.3
363	1400.0	1850.0	4.0	0.0	37.1	37.1
364	1450.0	1850.0	4.0	0.0	36.9	36.9
365	1500.0	1850.0	4.0	0.0	36.6	36.6
366	1550.0	1850.0	4.0	0.0	36.3	36.3
367	1600.0	1850.0	4.0	0.0	36.0	36.0
368	1650.0	1850.0	4.0	0.0	35.7	35.7
369	1700.0	1850.0	4.0	0.0	35.4	35.4
370	1750.0	1850.0	4.0	0.0	35.1	35.1
371	1800.0	1850.0	4.0	0.0	34.7	34.7
372	1850.0	1850.0	4.0	0.0	34.4	34.4
373	1900.0	1850.0	4.0	0.0	34.0	34.0
374	1950.0	1850.0	4.0	0.0	33.7	33.7
375	2000.0	1850.0	4.0	0.0	33.3	33.3
376	2050.0	1850.0	4.0	0.0	33.0	33.0
377	2100.0	1850.0	4.0	0.0	32.6	32.6
378	2150.0	1850.0	4.0	0.0	32.3	32.3
379	-500.0	1800.0	4.0	0.0	32.6	32.6
380	-450.0	1800.0	4.0	0.0	32.9	32.9
381	-400.0	1800.0	4.0	0.0	33.2	33.2
382	-350.0	1800.0	4.0	0.0	33.5	33.5
383	-300.0	1800.0	4.0	0.0	33.8	33.8
384	-250.0	1800.0	4.0	0.0	34.1	34.1
385	-200.0	1800.0	4.0	0.0	34.4	34.4
386	-150.0	1800.0	4.0	0.0	34.7	34.7
387	-100.0	1800.0	4.0	0.0	35.0	35.0
388	-50.0	1800.0	4.0	0.0	35.3	35.3
389	0.0	1800.0	4.0	0.0	35.6	35.6
390	50.0	1800.0	4.0	0.0	35.9	35.9
391	100.0	1800.0	4.0	0.0	36.2	36.2
392	150.0	1800.0	4.0	0.0	36.4	36.4
393	200.0	1800.0	4.0	0.0	36.7	36.7
394	250.0	1800.0	4.0	0.0	36.9	36.9
395	300.0	1800.0	4.0	0.0	37.1	37.1
396	350.0	1800.0	4.0	0.0	37.3	37.3
397	400.0	1800.0	4.0	0.0	37.5	37.5

398	450.0	1800.0	4.0	0.0	37.6	37.6
399	500.0	1800.0	4.0	0.0	37.8	37.8
400	550.0	1800.0	4.0	0.0	37.9	37.9
401	600.0	1800.0	4.0	0.0	38.0	38.0
402	650.0	1800.0	4.0	0.0	38.1	38.1
403	700.0	1800.0	4.0	0.0	38.2	38.2
404	750.0	1800.0	4.0	0.0	38.4	38.4
405	800.0	1800.0	4.0	0.0	38.5	38.5
406	850.0	1800.0	4.0	0.0	38.6	38.6
407	900.0	1800.0	4.0	0.0	38.7	38.7
408	950.0	1800.0	4.0	0.0	38.7	38.7
409	1000.0	1800.0	4.0	0.0	38.7	38.7
410	1050.0	1800.0	4.0	0.0	38.7	38.7
411	1100.0	1800.0	4.0	0.0	38.6	38.6
412	1150.0	1800.0	4.0	0.0	38.5	38.5
413	1200.0	1800.0	4.0	0.0	38.4	38.4
414	1250.0	1800.0	4.0	0.0	38.3	38.3
415	1300.0	1800.0	4.0	0.0	38.1	38.1
416	1350.0	1800.0	4.0	0.0	37.9	37.9
417	1400.0	1800.0	4.0	0.0	37.7	37.7
418	1450.0	1800.0	4.0	0.0	37.4	37.4
419	1500.0	1800.0	4.0	0.0	37.2	37.1
420	1550.0	1800.0	4.0	0.0	36.9	36.8
421	1600.0	1800.0	4.0	0.0	36.5	36.5
422	1650.0	1800.0	4.0	0.0	36.2	36.2
423	1700.0	1800.0	4.0	0.0	35.9	35.9
424	1750.0	1800.0	4.0	0.0	35.5	35.5
425	1800.0	1800.0	4.0	0.0	35.1	35.1
426	1850.0	1800.0	4.0	0.0	34.8	34.8
427	1900.0	1800.0	4.0	0.0	34.4	34.4
428	1950.0	1800.0	4.0	0.0	34.0	34.0
429	2000.0	1800.0	4.0	0.0	33.7	33.7
430	2050.0	1800.0	4.0	0.0	33.3	33.3
431	2100.0	1800.0	4.0	0.0	32.9	32.9
432	2150.0	1800.0	4.0	0.0	32.6	32.6
433	-500.0	1750.0	4.0	0.0	32.9	32.9
434	-450.0	1750.0	4.0	0.0	33.2	33.2
435	-400.0	1750.0	4.0	0.0	33.5	33.5
436	-350.0	1750.0	4.0	0.0	33.8	33.8
437	-300.0	1750.0	4.0	0.0	34.1	34.1
438	-250.0	1750.0	4.0	0.0	34.4	34.4
439	-200.0	1750.0	4.0	0.0	34.8	34.7
440	-150.0	1750.0	4.0	0.0	35.1	35.0
441	-100.0	1750.0	4.0	0.0	35.4	35.4
442	-50.0	1750.0	4.0	0.0	35.7	35.7

443	0.0	1750.0	4.0	0.0	36.0	36.0
444	50.0	1750.0	4.0	0.0	36.4	36.3
445	100.0	1750.0	4.0	0.0	36.7	36.6
446	150.0	1750.0	4.0	0.0	36.9	36.9
447	200.0	1750.0	4.0	0.0	37.2	37.2
448	250.0	1750.0	4.0	0.0	37.5	37.5
449	300.0	1750.0	4.0	0.0	37.7	37.7
450	350.0	1750.0	4.0	0.0	37.9	37.9
451	400.0	1750.0	4.0	0.0	38.1	38.1
452	450.0	1750.0	4.0	0.0	38.2	38.2
453	500.0	1750.0	4.0	0.0	38.4	38.3
454	550.0	1750.0	4.0	0.0	38.5	38.5
455	600.0	1750.0	4.0	0.0	38.6	38.6
456	650.0	1750.0	4.0	0.0	38.7	38.7
457	700.0	1750.0	4.0	0.0	38.9	38.8
458	750.0	1750.0	4.0	0.0	39.0	39.0
459	800.0	1750.0	4.0	0.0	39.2	39.2
460	850.0	1750.0	4.0	0.0	39.4	39.3
461	900.0	1750.0	4.0	0.0	39.5	39.5
462	950.0	1750.0	4.0	0.0	39.5	39.5
463	1000.0	1750.0	4.0	0.0	39.5	39.5
464	1050.0	1750.0	4.0	0.0	39.5	39.4
465	1100.0	1750.0	4.0	0.0	39.4	39.3
466	1150.0	1750.0	4.0	0.0	39.2	39.2
467	1200.0	1750.0	4.0	0.0	39.1	39.1
468	1250.0	1750.0	4.0	0.0	39.0	38.9
469	1300.0	1750.0	4.0	0.0	38.8	38.8
470	1350.0	1750.0	4.0	0.0	38.6	38.5
471	1400.0	1750.0	4.0	0.0	38.3	38.3
472	1450.0	1750.0	4.0	0.0	38.0	38.0
473	1500.0	1750.0	4.0	0.0	37.7	37.7
474	1550.0	1750.0	4.0	0.0	37.4	37.4
475	1600.0	1750.0	4.0	0.0	37.1	37.0
476	1650.0	1750.0	4.0	0.0	36.7	36.7
477	1700.0	1750.0	4.0	0.0	36.3	36.3
478	1750.0	1750.0	4.0	0.0	35.9	35.9
479	1800.0	1750.0	4.0	0.0	35.5	35.5
480	1850.0	1750.0	4.0	0.0	35.1	35.1
481	1900.0	1750.0	4.0	0.0	34.7	34.7
482	1950.0	1750.0	4.0	0.0	34.3	34.3
483	2000.0	1750.0	4.0	0.0	34.0	34.0
484	2050.0	1750.0	4.0	0.0	33.6	33.6
485	2100.0	1750.0	4.0	0.0	33.2	33.2
486	2150.0	1750.0	4.0	0.0	32.8	32.8
487	-500.0	1700.0	4.0	0.0	33.1	33.1

488	-450.0	1700.0	4.0	0.0	33.5	33.4
489	-400.0	1700.0	4.0	0.0	33.8	33.8
490	-350.0	1700.0	4.0	0.0	34.1	34.1
491	-300.0	1700.0	4.0	0.0	34.4	34.4
492	-250.0	1700.0	4.0	0.0	34.8	34.7
493	-200.0	1700.0	4.0	0.0	35.1	35.1
494	-150.0	1700.0	4.0	0.0	35.4	35.4
495	-100.0	1700.0	4.0	0.0	35.8	35.7
496	-50.0	1700.0	4.0	0.0	36.1	36.1
497	0.0	1700.0	4.0	0.0	36.5	36.4
498	50.0	1700.0	4.0	0.0	36.8	36.8
499	100.0	1700.0	4.0	0.0	37.1	37.1
500	150.0	1700.0	4.0	0.0	37.5	37.4
501	200.0	1700.0	4.0	0.0	37.8	37.7
502	250.0	1700.0	4.0	0.0	38.1	38.0
503	300.0	1700.0	4.0	0.0	38.3	38.3
504	350.0	1700.0	4.0	0.0	38.5	38.5
505	400.0	1700.0	4.0	0.0	38.7	38.7
506	450.0	1700.0	4.0	0.0	38.9	38.8
507	500.0	1700.0	4.0	0.0	39.0	39.0
508	550.0	1700.0	4.0	0.0	39.1	39.1
509	600.0	1700.0	4.0	0.0	39.2	39.2
510	650.0	1700.0	4.0	0.0	39.3	39.3
511	700.0	1700.0	4.0	0.0	39.5	39.5
512	750.0	1700.0	4.0	0.0	39.7	39.7
513	800.0	1700.0	4.0	0.0	39.9	39.9
514	850.0	1700.0	4.0	0.0	40.2	40.2
515	900.0	1700.0	4.0	0.0	40.4	40.4
516	950.0	1700.0	4.0	0.0	40.5	40.5
517	1000.0	1700.0	4.0	0.0	40.5	40.4
518	1050.0	1700.0	4.0	0.0	40.3	40.3
519	1100.0	1700.0	4.0	0.0	40.2	40.1
520	1150.0	1700.0	4.0	0.0	40.0	40.0
521	1200.0	1700.0	4.0	0.0	39.9	39.9
522	1250.0	1700.0	4.0	0.0	39.7	39.7
523	1300.0	1700.0	4.0	0.0	39.5	39.5
524	1350.0	1700.0	4.0	0.0	39.3	39.2
525	1400.0	1700.0	4.0	0.0	39.0	39.0
526	1450.0	1700.0	4.0	0.0	38.7	38.7
527	1500.0	1700.0	4.0	0.0	38.3	38.3
528	1550.0	1700.0	4.0	0.0	38.0	38.0
529	1600.0	1700.0	4.0	0.0	37.6	37.6
530	1650.0	1700.0	4.0	0.0	37.2	37.2
531	1700.0	1700.0	4.0	0.0	36.8	36.8
532	1750.0	1700.0	4.0	0.0	36.4	36.4

533	1800.0	1700.0	4.0	0.0	35.9	35.9
534	1850.0	1700.0	4.0	0.0	35.5	35.5
535	1900.0	1700.0	4.0	0.0	35.1	35.1
536	1950.0	1700.0	4.0	0.0	34.7	34.7
537	2000.0	1700.0	4.0	0.0	34.2	34.2
538	2050.0	1700.0	4.0	0.0	33.8	33.8
539	2100.0	1700.0	4.0	0.0	33.4	33.4
540	2150.0	1700.0	4.0	0.0	33.0	33.0
541	-500.0	1650.0	4.0	0.0	33.4	33.4
542	-450.0	1650.0	4.0	0.0	33.7	33.7
543	-400.0	1650.0	4.0	0.0	34.1	34.0
544	-350.0	1650.0	4.0	0.0	34.4	34.4
545	-300.0	1650.0	4.0	0.0	34.7	34.7
546	-250.0	1650.0	4.0	0.0	35.1	35.1
547	-200.0	1650.0	4.0	0.0	35.4	35.4
548	-150.0	1650.0	4.0	0.0	35.8	35.8
549	-100.0	1650.0	4.0	0.0	36.2	36.1
550	-50.0	1650.0	4.0	0.0	36.5	36.5
551	0.0	1650.0	4.0	0.0	36.9	36.9
552	50.0	1650.0	4.0	0.0	37.3	37.3
553	100.0	1650.0	4.0	0.0	37.7	37.6
554	150.0	1650.0	4.0	0.0	38.0	38.0
555	200.0	1650.0	4.0	0.0	38.4	38.3
556	250.0	1650.0	4.0	0.0	38.7	38.6
557	300.0	1650.0	4.0	0.0	38.9	38.9
558	350.0	1650.0	4.0	0.0	39.2	39.2
559	400.0	1650.0	4.0	0.0	39.4	39.3
560	450.0	1650.0	4.0	0.0	39.5	39.5
561	500.0	1650.0	4.0	0.0	39.6	39.6
562	550.0	1650.0	4.0	0.0	39.7	39.7
563	600.0	1650.0	4.0	0.0	39.8	39.8
564	650.0	1650.0	4.0	0.0	40.0	39.9
565	700.0	1650.0	4.0	0.0	40.1	40.1
566	750.0	1650.0	4.0	0.0	40.4	40.4
567	800.0	1650.0	4.0	0.0	40.8	40.8
568	850.0	1650.0	4.0	0.0	41.3	41.3
569	900.0	1650.0	4.0	0.0	41.7	41.7
570	950.0	1650.0	4.0	0.0	41.9	41.9
571	1000.0	1650.0	4.0	0.0	41.6	41.6
572	1050.0	1650.0	4.0	0.0	41.3	41.3
573	1100.0	1650.0	4.0	0.0	41.0	41.0
574	1150.0	1650.0	4.0	0.0	40.8	40.8
575	1200.0	1650.0	4.0	0.0	40.7	40.7
576	1250.0	1650.0	4.0	0.0	40.5	40.5
577	1300.0	1650.0	4.0	0.0	40.3	40.3

578	1350.0	1650.0	4.0	0.0	40.0	40.0
579	1400.0	1650.0	4.0	0.0	39.7	39.7
580	1450.0	1650.0	4.0	0.0	39.3	39.3
581	1500.0	1650.0	4.0	0.0	39.0	39.0
582	1550.0	1650.0	4.0	0.0	38.6	38.6
583	1600.0	1650.0	4.0	0.0	38.1	38.1
584	1650.0	1650.0	4.0	0.0	37.7	37.7
585	1700.0	1650.0	4.0	0.0	37.2	37.2
586	1750.0	1650.0	4.0	0.0	36.8	36.8
587	1800.0	1650.0	4.0	0.0	36.3	36.3
588	1850.0	1650.0	4.0	0.0	35.9	35.9
589	1900.0	1650.0	4.0	0.0	35.4	35.4
590	1950.0	1650.0	4.0	0.0	35.0	35.0
591	2000.0	1650.0	4.0	0.0	34.5	34.5
592	2050.0	1650.0	4.0	0.0	34.1	34.1
593	2100.0	1650.0	4.0	0.0	33.7	33.7
594	2150.0	1650.0	4.0	0.0	33.3	33.3
595	-500.0	1600.0	4.0	0.0	33.7	33.7
596	-450.0	1600.0	4.0	0.0	34.0	34.0
597	-400.0	1600.0	4.0	0.0	34.4	34.3
598	-350.0	1600.0	4.0	0.0	34.7	34.7
599	-300.0	1600.0	4.0	0.0	35.0	35.0
600	-250.0	1600.0	4.0	0.0	35.4	35.4
601	-200.0	1600.0	4.0	0.0	35.8	35.7
602	-150.0	1600.0	4.0	0.0	36.2	36.1
603	-100.0	1600.0	4.0	0.0	36.6	36.5
604	-50.0	1600.0	4.0	0.0	37.0	36.9
605	0.0	1600.0	4.0	0.0	37.4	37.3
606	50.0	1600.0	4.0	0.0	37.8	37.8
607	100.0	1600.0	4.0	0.0	38.2	38.2
608	150.0	1600.0	4.0	0.0	38.6	38.6
609	200.0	1600.0	4.0	0.0	39.0	38.9
610	250.0	1600.0	4.0	0.0	39.3	39.3
611	300.0	1600.0	4.0	0.0	39.6	39.6
612	350.0	1600.0	4.0	0.0	39.9	39.9
613	400.0	1600.0	4.0	0.0	40.1	40.1
614	450.0	1600.0	4.0	0.0	40.3	40.2
615	500.0	1600.0	4.0	0.0	40.4	40.3
616	550.0	1600.0	4.0	0.0	40.4	40.4
617	600.0	1600.0	4.0	0.0	40.5	40.5
618	650.0	1600.0	4.0	0.0	40.6	40.6
619	700.0	1600.0	4.0	0.0	40.8	40.8
620	750.0	1600.0	4.0	0.0	41.1	41.1
621	800.0	1600.0	4.0	0.0	41.7	41.7
622	850.0	1600.0	4.0	0.0	42.7	42.7

623	900.0	1600.0	4.0	0.0	43.8	43.8
624	950.0	1600.0	4.0	0.0	44.2	44.2
625	1000.0	1600.0	4.0	0.0	43.3	43.3
626	1050.0	1600.0	4.0	0.0	42.4	42.4
627	1100.0	1600.0	4.0	0.0	41.9	41.9
628	1150.0	1600.0	4.0	0.0	41.7	41.7
629	1200.0	1600.0	4.0	0.0	41.6	41.6
630	1250.0	1600.0	4.0	0.0	41.4	41.4
631	1300.0	1600.0	4.0	0.0	41.2	41.1
632	1350.0	1600.0	4.0	0.0	40.8	40.8
633	1400.0	1600.0	4.0	0.0	40.5	40.5
634	1450.0	1600.0	4.0	0.0	40.1	40.1
635	1500.0	1600.0	4.0	0.0	39.6	39.6
636	1550.0	1600.0	4.0	0.0	39.2	39.2
637	1600.0	1600.0	4.0	0.0	38.7	38.7
638	1650.0	1600.0	4.0	0.0	38.2	38.2
639	1700.0	1600.0	4.0	0.0	37.7	37.7
640	1750.0	1600.0	4.0	0.0	37.2	37.2
641	1800.0	1600.0	4.0	0.0	36.7	36.7
642	1850.0	1600.0	4.0	0.0	36.2	36.2
643	1900.0	1600.0	4.0	0.0	35.8	35.8
644	1950.0	1600.0	4.0	0.0	35.3	35.3
645	2000.0	1600.0	4.0	0.0	34.8	34.8
646	2050.0	1600.0	4.0	0.0	34.4	34.4
647	2100.0	1600.0	4.0	0.0	33.9	33.9
648	2150.0	1600.0	4.0	0.0	33.5	33.5
649	-500.0	1550.0	4.0	0.0	33.9	33.9
650	-450.0	1550.0	4.0	0.0	34.3	34.2
651	-400.0	1550.0	4.0	0.0	34.6	34.6
652	-350.0	1550.0	4.0	0.0	35.0	34.9
653	-300.0	1550.0	4.0	0.0	35.3	35.3
654	-250.0	1550.0	4.0	0.0	35.7	35.7
655	-200.0	1550.0	4.0	0.0	36.1	36.1
656	-150.0	1550.0	4.0	0.0	36.5	36.5
657	-100.0	1550.0	4.0	0.0	36.9	36.9
658	-50.0	1550.0	4.0	0.0	37.4	37.3
659	0.0	1550.0	4.0	0.0	37.8	37.8
660	50.0	1550.0	4.0	0.0	38.3	38.3
661	100.0	1550.0	4.0	0.0	38.7	38.7
662	150.0	1550.0	4.0	0.0	39.2	39.2
663	200.0	1550.0	4.0	0.0	39.6	39.6
664	250.0	1550.0	4.0	0.0	40.0	40.0
665	300.0	1550.0	4.0	0.0	40.4	40.4
666	350.0	1550.0	4.0	0.0	40.7	40.7
667	400.0	1550.0	4.0	0.0	40.9	40.9

668	450.0	1550.0	4.0	0.0	41.1	41.0
669	500.0	1550.0	4.0	0.0	41.1	41.1
670	550.0	1550.0	4.0	0.0	41.2	41.2
671	600.0	1550.0	4.0	0.0	41.2	41.2
672	650.0	1550.0	4.0	0.0	41.3	41.3
673	700.0	1550.0	4.0	0.0	41.4	41.4
674	750.0	1550.0	4.0	0.0	41.8	41.8
675	800.0	1550.0	4.0	0.0	42.6	42.6
676	850.0	1550.0	4.0	0.0	44.5	44.5
677	900.0	1550.0	4.0	0.0	48.2	48.2
678	950.0	1550.0	4.0	0.0	49.8	49.8
679	1000.0	1550.0	4.0	0.0	46.0	46.0
680	1050.0	1550.0	4.0	0.0	43.5	43.5
681	1100.0	1550.0	4.0	0.0	42.9	42.9
682	1150.0	1550.0	4.0	0.0	42.8	42.7
683	1200.0	1550.0	4.0	0.0	42.7	42.7
684	1250.0	1550.0	4.0	0.0	42.5	42.5
685	1300.0	1550.0	4.0	0.0	42.1	42.1
686	1350.0	1550.0	4.0	0.0	41.7	41.7
687	1400.0	1550.0	4.0	0.0	41.3	41.3
688	1450.0	1550.0	4.0	0.0	40.8	40.8
689	1500.0	1550.0	4.0	0.0	40.3	40.3
690	1550.0	1550.0	4.0	0.0	39.8	39.8
691	1600.0	1550.0	4.0	0.0	39.3	39.3
692	1650.0	1550.0	4.0	0.0	38.7	38.7
693	1700.0	1550.0	4.0	0.0	38.2	38.2
694	1750.0	1550.0	4.0	0.0	37.6	37.6
695	1800.0	1550.0	4.0	0.0	37.1	37.1
696	1850.0	1550.0	4.0	0.0	36.6	36.6
697	1900.0	1550.0	4.0	0.0	36.1	36.1
698	1950.0	1550.0	4.0	0.0	35.6	35.6
699	2000.0	1550.0	4.0	0.0	35.1	35.1
700	2050.0	1550.0	4.0	0.0	34.6	34.6
701	2100.0	1550.0	4.0	0.0	34.1	34.1
702	2150.0	1550.0	4.0	0.0	33.7	33.7
703	-500.0	1500.0	4.0	0.0	34.2	34.2
704	-450.0	1500.0	4.0	0.0	34.5	34.5
705	-400.0	1500.0	4.0	0.0	34.9	34.8
706	-350.0	1500.0	4.0	0.0	35.2	35.2
707	-300.0	1500.0	4.0	0.0	35.6	35.6
708	-250.0	1500.0	4.0	0.0	36.0	36.0
709	-200.0	1500.0	4.0	0.0	36.4	36.4
710	-150.0	1500.0	4.0	0.0	36.9	36.8
711	-100.0	1500.0	4.0	0.0	37.3	37.3
712	-50.0	1500.0	4.0	0.0	37.8	37.8

713	0.0	1500.0	4.0	0.0	38.3	38.2
714	50.0	1500.0	4.0	0.0	38.8	38.8
715	100.0	1500.0	4.0	0.0	39.3	39.3
716	150.0	1500.0	4.0	0.0	39.8	39.8
717	200.0	1500.0	4.0	0.0	40.3	40.3
718	250.0	1500.0	4.0	0.0	40.8	40.8
719	300.0	1500.0	4.0	0.0	41.2	41.2
720	350.0	1500.0	4.0	0.0	41.5	41.5
721	400.0	1500.0	4.0	0.0	41.8	41.8
722	450.0	1500.0	4.0	0.0	42.0	41.9
723	500.0	1500.0	4.0	0.0	42.0	42.0
724	550.0	1500.0	4.0	0.0	42.0	42.0
725	600.0	1500.0	4.0	0.0	42.0	42.0
726	650.0	1500.0	4.0	0.0	42.0	42.0
727	700.0	1500.0	4.0	0.0	42.1	42.1
728	750.0	1500.0	4.0	0.0	42.4	42.4
729	800.0	1500.0	4.0	0.0	43.2	43.2
730	850.0	1500.0	4.0	0.0	45.5	45.5
731	900.0	1500.0	4.0	0.0	55.1	55.1
732	950.0	1500.0	4.0	0.0	52.8	52.8
733	1000.0	1500.0	4.0	0.0	46.6	46.6
734	1050.0	1500.0	4.0	0.0	44.2	44.2
735	1100.0	1500.0	4.0	0.0	43.8	43.8
736	1150.0	1500.0	4.0	0.0	44.1	44.1
737	1200.0	1500.0	4.0	0.0	44.3	44.3
738	1250.0	1500.0	4.0	0.0	43.9	43.9
739	1300.0	1500.0	4.0	0.0	43.3	43.3
740	1350.0	1500.0	4.0	0.0	42.7	42.7
741	1400.0	1500.0	4.0	0.0	42.2	42.2
742	1450.0	1500.0	4.0	0.0	41.6	41.6
743	1500.0	1500.0	4.0	0.0	41.1	41.1
744	1550.0	1500.0	4.0	0.0	40.5	40.5
745	1600.0	1500.0	4.0	0.0	39.9	39.9
746	1650.0	1500.0	4.0	0.0	39.3	39.3
747	1700.0	1500.0	4.0	0.0	38.7	38.7
748	1750.0	1500.0	4.0	0.0	38.1	38.1
749	1800.0	1500.0	4.0	0.0	37.5	37.5
750	1850.0	1500.0	4.0	0.0	36.9	36.9
751	1900.0	1500.0	4.0	0.0	36.4	36.4
752	1950.0	1500.0	4.0	0.0	35.9	35.9
753	2000.0	1500.0	4.0	0.0	35.3	35.3
754	2050.0	1500.0	4.0	0.0	34.8	34.8
755	2100.0	1500.0	4.0	0.0	34.4	34.4
756	2150.0	1500.0	4.0	0.0	33.9	33.9
757	-500.0	1450.0	4.0	0.0	34.4	34.4

758	-450.0	1450.0	4.0	0.0	34.8	34.7
759	-400.0	1450.0	4.0	0.0	35.1	35.1
760	-350.0	1450.0	4.0	0.0	35.5	35.5
761	-300.0	1450.0	4.0	0.0	35.9	35.9
762	-250.0	1450.0	4.0	0.0	36.3	36.3
763	-200.0	1450.0	4.0	0.0	36.7	36.7
764	-150.0	1450.0	4.0	0.0	37.2	37.2
765	-100.0	1450.0	4.0	0.0	37.7	37.6
766	-50.0	1450.0	4.0	0.0	38.2	38.2
767	0.0	1450.0	4.0	0.0	38.7	38.7
768	50.0	1450.0	4.0	0.0	39.3	39.3
769	100.0	1450.0	4.0	0.0	39.9	39.8
770	150.0	1450.0	4.0	0.0	40.5	40.4
771	200.0	1450.0	4.0	0.0	41.0	41.0
772	250.0	1450.0	4.0	0.0	41.6	41.6
773	300.0	1450.0	4.0	0.0	42.1	42.1
774	350.0	1450.0	4.0	0.0	42.5	42.5
775	400.0	1450.0	4.0	0.0	42.8	42.8
776	450.0	1450.0	4.0	0.0	43.0	43.0
777	500.0	1450.0	4.0	0.0	43.0	43.0
778	550.0	1450.0	4.0	0.0	43.0	42.9
779	600.0	1450.0	4.0	0.0	42.8	42.8
780	650.0	1450.0	4.0	0.0	42.9	42.9
781	700.0	1450.0	4.0	0.0	47.3	47.3
782	750.0	1450.0	4.0	0.0	43.5	43.5
783	800.0	1450.0	4.0	0.0	43.7	43.6
784	850.0	1450.0	4.0	0.0	44.8	44.8
785	900.0	1450.0	4.0	0.0	46.3	46.3
786	950.0	1450.0	4.0	0.0	46.5	46.5
787	1000.0	1450.0	4.0	0.0	45.1	45.1
788	1050.0	1450.0	4.0	0.0	44.6	44.6
789	1100.0	1450.0	4.0	0.0	44.8	44.8
790	1150.0	1450.0	4.0	0.0	46.5	46.5
791	1200.0	1450.0	4.0	0.0	47.8	47.8
792	1250.0	1450.0	4.0	0.0	46.1	46.1
793	1300.0	1450.0	4.0	0.0	44.6	44.6
794	1350.0	1450.0	4.0	0.0	43.8	43.8
795	1400.0	1450.0	4.0	0.0	43.1	43.1
796	1450.0	1450.0	4.0	0.0	42.5	42.5
797	1500.0	1450.0	4.0	0.0	41.8	41.8
798	1550.0	1450.0	4.0	0.0	41.2	41.2
799	1600.0	1450.0	4.0	0.0	40.5	40.5
800	1650.0	1450.0	4.0	0.0	39.8	39.8
801	1700.0	1450.0	4.0	0.0	39.1	39.1
802	1750.0	1450.0	4.0	0.0	38.5	38.5

803	1800.0	1450.0	4.0	0.0	37.9	37.8
804	1850.0	1450.0	4.0	0.0	37.2	37.2
805	1900.0	1450.0	4.0	0.0	36.7	36.7
806	1950.0	1450.0	4.0	0.0	36.1	36.1
807	2000.0	1450.0	4.0	0.0	35.6	35.6
808	2050.0	1450.0	4.0	0.0	35.1	35.1
809	2100.0	1450.0	4.0	0.0	34.5	34.5
810	2150.0	1450.0	4.0	0.0	34.1	34.1
811	-500.0	1400.0	4.0	0.0	34.7	34.6
812	-450.0	1400.0	4.0	0.0	35.0	35.0
813	-400.0	1400.0	4.0	0.0	35.4	35.3
814	-350.0	1400.0	4.0	0.0	35.8	35.7
815	-300.0	1400.0	4.0	0.0	36.2	36.1
816	-250.0	1400.0	4.0	0.0	36.6	36.5
817	-200.0	1400.0	4.0	0.0	37.0	37.0
818	-150.0	1400.0	4.0	0.0	37.5	37.5
819	-100.0	1400.0	4.0	0.0	38.0	38.0
820	-50.0	1400.0	4.0	0.0	38.6	38.5
821	0.0	1400.0	4.0	0.0	39.2	39.1
822	50.0	1400.0	4.0	0.0	39.8	39.7
823	100.0	1400.0	4.0	0.0	40.4	40.4
824	150.0	1400.0	4.0	0.0	41.1	41.1
825	200.0	1400.0	4.0	0.0	41.8	41.8
826	250.0	1400.0	4.0	0.0	42.5	42.5
827	300.0	1400.0	4.0	0.0	43.1	43.1
828	350.0	1400.0	4.0	0.0	43.6	43.6
829	400.0	1400.0	4.0	0.0	44.0	44.0
830	450.0	1400.0	4.0	0.0	44.2	44.2
831	500.0	1400.0	4.0	0.0	46.1	46.0
832	550.0	1400.0	4.0	0.0	44.6	44.6
833	600.0	1400.0	4.0	0.0	43.7	43.7
834	650.0	1400.0	4.0	0.0	43.8	43.8
835	700.0	1400.0	4.0	0.0	44.8	44.8
836	750.0	1400.0	4.0	0.0	47.1	47.1
837	800.0	1400.0	4.0	0.0	46.7	46.7
838	850.0	1400.0	4.0	0.0	44.3	44.3
839	900.0	1400.0	4.0	0.0	44.8	44.8
840	950.0	1400.0	4.0	0.0	45.0	44.9
841	1000.0	1400.0	4.0	0.0	45.0	45.0
842	1050.0	1400.0	4.0	0.0	45.3	45.3
843	1100.0	1400.0	4.0	0.0	45.8	45.8
844	1150.0	1400.0	4.0	0.0	48.3	48.3
845	1200.0	1400.0	4.0	0.0	56.1	56.1
846	1250.0	1400.0	4.0	0.0	50.6	50.6
847	1300.0	1400.0	4.0	0.0	45.9	45.9

848	1350.0	1400.0	4.0	0.0	44.9	44.9
849	1400.0	1400.0	4.0	0.0	44.1	44.1
850	1450.0	1400.0	4.0	0.0	43.4	43.4
851	1500.0	1400.0	4.0	0.0	42.6	42.6
852	1550.0	1400.0	4.0	0.0	41.8	41.8
853	1600.0	1400.0	4.0	0.0	41.1	41.1
854	1650.0	1400.0	4.0	0.0	40.3	40.3
855	1700.0	1400.0	4.0	0.0	39.6	39.6
856	1750.0	1400.0	4.0	0.0	38.9	38.9
857	1800.0	1400.0	4.0	0.0	38.2	38.2
858	1850.0	1400.0	4.0	0.0	37.5	37.5
859	1900.0	1400.0	4.0	0.0	36.9	36.9
860	1950.0	1400.0	4.0	0.0	36.3	36.3
861	2000.0	1400.0	4.0	0.0	35.8	35.8
862	2050.0	1400.0	4.0	0.0	35.2	35.2
863	2100.0	1400.0	4.0	0.0	34.7	34.7
864	2150.0	1400.0	4.0	0.0	34.2	34.2
865	-500.0	1350.0	4.0	0.0	34.9	34.9
866	-450.0	1350.0	4.0	0.0	35.3	35.2
867	-400.0	1350.0	4.0	0.0	35.6	35.6
868	-350.0	1350.0	4.0	0.0	36.0	36.0
869	-300.0	1350.0	4.0	0.0	36.4	36.4
870	-250.0	1350.0	4.0	0.0	36.8	36.8
871	-200.0	1350.0	4.0	0.0	37.3	37.3
872	-150.0	1350.0	4.0	0.0	37.8	37.8
873	-100.0	1350.0	4.0	0.0	38.3	38.3
874	-50.0	1350.0	4.0	0.0	38.9	38.9
875	0.0	1350.0	4.0	0.0	39.6	39.5
876	50.0	1350.0	4.0	0.0	40.2	40.2
877	100.0	1350.0	4.0	0.0	41.0	40.9
878	150.0	1350.0	4.0	0.0	41.8	41.7
879	200.0	1350.0	4.0	0.0	42.6	42.6
880	250.0	1350.0	4.0	0.0	43.4	43.4
881	300.0	1350.0	4.0	0.0	44.2	44.2
882	350.0	1350.0	4.0	0.0	44.9	44.9
883	400.0	1350.0	4.0	0.0	45.4	45.4
884	450.0	1350.0	4.0	0.0	46.0	46.0
885	500.0	1350.0	4.0	0.0	45.9	45.9
886	550.0	1350.0	4.0	0.0	45.4	45.4
887	600.0	1350.0	4.0	0.0	44.7	44.7
888	650.0	1350.0	4.0	0.0	44.9	44.8
889	700.0	1350.0	4.0	0.0	44.4	44.4
890	750.0	1350.0	4.0	0.0	44.3	44.3
891	800.0	1350.0	4.0	0.0	44.2	44.2
892	850.0	1350.0	4.0	0.0	44.5	44.5

893	900.0	1350.0	4.0	0.0	44.9	44.8
894	950.0	1350.0	4.0	0.0	45.3	45.3
895	1000.0	1350.0	4.0	0.0	45.1	45.1
896	1050.0	1350.0	4.0	0.0	45.8	45.8
897	1100.0	1350.0	4.0	0.0	46.9	46.9
898	1150.0	1350.0	4.0	0.0	47.0	47.0
899	1200.0	1350.0	4.0	0.0	48.3	48.3
900	1250.0	1350.0	4.0	0.0	48.4	48.4
901	1300.0	1350.0	4.0	0.0	47.0	47.0
902	1350.0	1350.0	4.0	0.0	46.0	46.0
903	1400.0	1350.0	4.0	0.0	45.2	45.2
904	1450.0	1350.0	4.0	0.0	44.3	44.3
905	1500.0	1350.0	4.0	0.0	43.4	43.4
906	1550.0	1350.0	4.0	0.0	42.5	42.5
907	1600.0	1350.0	4.0	0.0	41.6	41.6
908	1650.0	1350.0	4.0	0.0	40.8	40.8
909	1700.0	1350.0	4.0	0.0	40.0	40.0
910	1750.0	1350.0	4.0	0.0	39.2	39.2
911	1800.0	1350.0	4.0	0.0	38.5	38.5
912	1850.0	1350.0	4.0	0.0	37.8	37.8
913	1900.0	1350.0	4.0	0.0	37.2	37.2
914	1950.0	1350.0	4.0	0.0	36.6	36.5
915	2000.0	1350.0	4.0	0.0	36.0	36.0
916	2050.0	1350.0	4.0	0.0	35.4	35.4
917	2100.0	1350.0	4.0	0.0	34.9	34.9
918	2150.0	1350.0	4.0	0.0	34.4	34.4
919	-500.0	1300.0	4.0	0.0	35.1	35.1
920	-450.0	1300.0	4.0	0.0	35.5	35.4
921	-400.0	1300.0	4.0	0.0	35.9	35.8
922	-350.0	1300.0	4.0	0.0	36.2	36.2
923	-300.0	1300.0	4.0	0.0	36.7	36.6
924	-250.0	1300.0	4.0	0.0	37.1	37.1
925	-200.0	1300.0	4.0	0.0	37.6	37.5
926	-150.0	1300.0	4.0	0.0	38.1	38.0
927	-100.0	1300.0	4.0	0.0	38.6	38.6
928	-50.0	1300.0	4.0	0.0	39.2	39.2
929	0.0	1300.0	4.0	0.0	39.9	39.9
930	50.0	1300.0	4.0	0.0	40.7	40.6
931	100.0	1300.0	4.0	0.0	41.5	41.4
932	150.0	1300.0	4.0	0.0	42.4	42.3
933	200.0	1300.0	4.0	0.0	43.3	43.3
934	250.0	1300.0	4.0	0.0	44.4	44.3
935	300.0	1300.0	4.0	0.0	45.4	45.4
936	350.0	1300.0	4.0	0.0	46.3	46.3
937	400.0	1300.0	4.0	0.0	47.0	47.0

938	450.0	1300.0	4.0	0.0	47.5	47.5
939	500.0	1300.0	4.0	0.0	47.2	47.2
940	550.0	1300.0	4.0	0.0	46.5	46.5
941	600.0	1300.0	4.0	0.0	45.7	45.7
942	650.0	1300.0	4.0	0.0	45.3	45.3
943	700.0	1300.0	4.0	0.0	44.5	44.5
944	750.0	1300.0	4.0	0.0	44.2	44.2
945	800.0	1300.0	4.0	0.0	45.3	45.3
946	850.0	1300.0	4.0	0.0	45.0	45.0
947	900.0	1300.0	4.0	0.0	45.0	44.9
948	950.0	1300.0	4.0	0.0	45.3	45.3
949	1000.0	1300.0	4.0	0.0	45.7	45.7
950	1050.0	1300.0	4.0	0.0	46.4	46.4
951	1100.0	1300.0	4.0	0.0	50.0	50.0
952	1150.0	1300.0	4.0	0.0	47.5	47.5
953	1200.0	1300.0	4.0	0.0	48.3	48.3
954	1250.0	1300.0	4.0	0.0	48.9	48.9
955	1300.0	1300.0	4.0	0.0	48.3	48.3
956	1350.0	1300.0	4.0	0.0	47.3	47.3
957	1400.0	1300.0	4.0	0.0	46.3	46.3
958	1450.0	1300.0	4.0	0.0	45.3	45.3
959	1500.0	1300.0	4.0	0.0	44.2	44.2
960	1550.0	1300.0	4.0	0.0	43.2	43.1
961	1600.0	1300.0	4.0	0.0	42.2	42.2
962	1650.0	1300.0	4.0	0.0	41.2	41.2
963	1700.0	1300.0	4.0	0.0	40.3	40.3
964	1750.0	1300.0	4.0	0.0	39.5	39.5
965	1800.0	1300.0	4.0	0.0	38.7	38.7
966	1850.0	1300.0	4.0	0.0	38.0	38.0
967	1900.0	1300.0	4.0	0.0	37.4	37.4
968	1950.0	1300.0	4.0	0.0	36.7	36.7
969	2000.0	1300.0	4.0	0.0	36.1	36.1
970	2050.0	1300.0	4.0	0.0	35.5	35.5
971	2100.0	1300.0	4.0	0.0	35.0	35.0
972	2150.0	1300.0	4.0	0.0	34.5	34.5
973	-500.0	1250.0	4.0	0.0	35.4	35.3
974	-450.0	1250.0	4.0	0.0	35.7	35.7
975	-400.0	1250.0	4.0	0.0	36.1	36.0
976	-350.0	1250.0	4.0	0.0	36.5	36.4
977	-300.0	1250.0	4.0	0.0	36.9	36.8
978	-250.0	1250.0	4.0	0.0	37.3	37.3
979	-200.0	1250.0	4.0	0.0	37.8	37.8
980	-150.0	1250.0	4.0	0.0	38.3	38.3
981	-100.0	1250.0	4.0	0.0	38.9	38.9
982	-50.0	1250.0	4.0	0.0	39.5	39.5

983	0.0	1250.0	4.0	0.0	40.2	40.2
984	50.0	1250.0	4.0	0.0	41.0	41.0
985	100.0	1250.0	4.0	0.0	41.9	41.9
986	150.0	1250.0	4.0	0.0	42.9	42.9
987	200.0	1250.0	4.0	0.0	44.0	44.0
988	250.0	1250.0	4.0	0.0	45.3	45.3
989	300.0	1250.0	4.0	0.0	46.6	46.6
990	350.0	1250.0	4.0	0.0	47.9	47.8
991	400.0	1250.0	4.0	0.0	48.8	48.8
992	450.0	1250.0	4.0	0.0	49.2	49.2
993	500.0	1250.0	4.0	0.0	48.9	48.9
994	550.0	1250.0	4.0	0.0	47.8	47.8
995	600.0	1250.0	4.0	0.0	46.7	46.7
996	650.0	1250.0	4.0	0.0	45.8	45.8
997	700.0	1250.0	4.0	0.0	45.0	44.9
998	750.0	1250.0	4.0	0.0	44.6	44.5
999	800.0	1250.0	4.0	0.0	44.5	44.5
1000	850.0	1250.0	4.0	0.0	44.9	44.8
1001	900.0	1250.0	4.0	0.0	46.9	46.9
1002	950.0	1250.0	4.0	0.0	47.8	47.8
1003	1000.0	1250.0	4.0	0.0	47.1	47.1
1004	1050.0	1250.0	4.0	0.0	48.0	48.0
1005	1100.0	1250.0	4.0	0.0	48.0	48.0
1006	1150.0	1250.0	4.0	0.0	48.9	48.9
1007	1200.0	1250.0	4.0	0.0	49.6	49.6
1008	1250.0	1250.0	4.0	0.0	50.4	50.4
1009	1300.0	1250.0	4.0	0.0	50.0	50.0
1010	1350.0	1250.0	4.0	0.0	48.8	48.8
1011	1400.0	1250.0	4.0	0.0	47.6	47.6
1012	1450.0	1250.0	4.0	0.0	46.2	46.2
1013	1500.0	1250.0	4.0	0.0	44.9	44.9
1014	1550.0	1250.0	4.0	0.0	43.7	43.7
1015	1600.0	1250.0	4.0	0.0	42.6	42.6
1016	1650.0	1250.0	4.0	0.0	41.6	41.6
1017	1700.0	1250.0	4.0	0.0	40.6	40.6
1018	1750.0	1250.0	4.0	0.0	39.8	39.8
1019	1800.0	1250.0	4.0	0.0	39.0	39.0
1020	1850.0	1250.0	4.0	0.0	38.2	38.2
1021	1900.0	1250.0	4.0	0.0	37.5	37.5
1022	1950.0	1250.0	4.0	0.0	36.9	36.9
1023	2000.0	1250.0	4.0	0.0	36.2	36.2
1024	2050.0	1250.0	4.0	0.0	35.7	35.6
1025	2100.0	1250.0	4.0	0.0	35.1	35.1
1026	2150.0	1250.0	4.0	0.0	34.6	34.6
1027	-500.0	1200.0	4.0	0.0	35.6	35.6

1028	-450.0	1200.0	4.0	0.0	35.9	35.9
1029	-400.0	1200.0	4.0	0.0	36.3	36.3
1030	-350.0	1200.0	4.0	0.0	36.7	36.6
1031	-300.0	1200.0	4.0	0.0	37.1	37.1
1032	-250.0	1200.0	4.0	0.0	37.5	37.5
1033	-200.0	1200.0	4.0	0.0	38.0	38.0
1034	-150.0	1200.0	4.0	0.0	38.5	38.5
1035	-100.0	1200.0	4.0	0.0	39.1	39.1
1036	-50.0	1200.0	4.0	0.0	39.8	39.7
1037	0.0	1200.0	4.0	0.0	40.5	40.4
1038	50.0	1200.0	4.0	0.0	41.3	41.3
1039	100.0	1200.0	4.0	0.0	42.2	42.2
1040	150.0	1200.0	4.0	0.0	43.3	43.3
1041	200.0	1200.0	4.0	0.0	44.6	44.6
1042	250.0	1200.0	4.0	0.0	46.0	46.0
1043	300.0	1200.0	4.0	0.0	47.6	47.6
1044	350.0	1200.0	4.0	0.0	49.4	49.4
1045	400.0	1200.0	4.0	0.0	50.8	50.8
1046	450.0	1200.0	4.0	0.0	51.4	51.4
1047	500.0	1200.0	4.0	0.0	50.6	50.6
1048	550.0	1200.0	4.0	0.0	49.2	49.2
1049	600.0	1200.0	4.0	0.0	47.7	47.7
1050	650.0	1200.0	4.0	0.0	46.9	46.9
1051	700.0	1200.0	4.0	0.0	45.3	45.3
1052	750.0	1200.0	4.0	0.0	46.1	46.1
1053	800.0	1200.0	4.0	0.0	44.6	44.5
1054	850.0	1200.0	4.0	0.0	45.0	45.0
1055	900.0	1200.0	4.0	0.0	46.8	46.8
1056	950.0	1200.0	4.0	0.0	52.0	52.0
1057	1000.0	1200.0	4.0	0.0	58.1	58.1
1058	1050.0	1200.0	4.0	0.0	48.7	48.7
1059	1100.0	1200.0	4.0	0.0	48.7	48.7
1060	1150.0	1200.0	4.0	0.0	49.9	49.9
1061	1200.0	1200.0	4.0	0.0	51.3	51.3
1062	1250.0	1200.0	4.0	0.0	52.3	52.3
1063	1300.0	1200.0	4.0	0.0	51.9	51.9
1064	1350.0	1200.0	4.0	0.0	50.4	50.4
1065	1400.0	1200.0	4.0	0.0	48.7	48.7
1066	1450.0	1200.0	4.0	0.0	47.0	47.0
1067	1500.0	1200.0	4.0	0.0	45.5	45.5
1068	1550.0	1200.0	4.0	0.0	44.2	44.1
1069	1600.0	1200.0	4.0	0.0	42.9	42.9
1070	1650.0	1200.0	4.0	0.0	41.8	41.8
1071	1700.0	1200.0	4.0	0.0	40.9	40.8
1072	1750.0	1200.0	4.0	0.0	39.9	39.9

1073	1800.0	1200.0	4.0	0.0	39.1	39.1
1074	1850.0	1200.0	4.0	0.0	38.3	38.3
1075	1900.0	1200.0	4.0	0.0	37.6	37.6
1076	1950.0	1200.0	4.0	0.0	37.0	36.9
1077	2000.0	1200.0	4.0	0.0	36.3	36.3
1078	2050.0	1200.0	4.0	0.0	35.7	35.7
1079	2100.0	1200.0	4.0	0.0	35.2	35.2
1080	2150.0	1200.0	4.0	0.0	34.6	34.6
1081	-500.0	1150.0	4.0	0.0	35.8	35.8
1082	-450.0	1150.0	4.0	0.0	36.2	36.1
1083	-400.0	1150.0	4.0	0.0	36.5	36.5
1084	-350.0	1150.0	4.0	0.0	36.9	36.9
1085	-300.0	1150.0	4.0	0.0	37.3	37.3
1086	-250.0	1150.0	4.0	0.0	37.7	37.7
1087	-200.0	1150.0	4.0	0.0	38.2	38.2
1088	-150.0	1150.0	4.0	0.0	38.7	38.7
1089	-100.0	1150.0	4.0	0.0	39.3	39.2
1090	-50.0	1150.0	4.0	0.0	39.9	39.9
1091	0.0	1150.0	4.0	0.0	40.7	40.6
1092	50.0	1150.0	4.0	0.0	41.5	41.5
1093	100.0	1150.0	4.0	0.0	42.5	42.4
1094	150.0	1150.0	4.0	0.0	43.6	43.6
1095	200.0	1150.0	4.0	0.0	44.9	44.9
1096	250.0	1150.0	4.0	0.0	46.5	46.5
1097	300.0	1150.0	4.0	0.0	48.3	48.3
1098	350.0	1150.0	4.0	0.0	50.4	50.4
1099	400.0	1150.0	4.0	0.0	52.4	52.4
1100	450.0	1150.0	4.0	0.0	53.2	53.2
1101	500.0	1150.0	4.0	0.0	52.1	52.1
1102	550.0	1150.0	4.0	0.0	50.1	50.1
1103	600.0	1150.0	4.0	0.0	48.9	48.8
1104	650.0	1150.0	4.0	0.0	46.8	46.8
1105	700.0	1150.0	4.0	0.0	45.5	45.5
1106	750.0	1150.0	4.0	0.0	45.0	45.0
1107	800.0	1150.0	4.0	0.0	44.6	44.6
1108	850.0	1150.0	4.0	0.0	45.0	45.0
1109	900.0	1150.0	4.0	0.0	47.8	47.8
1110	950.0	1150.0	4.0	0.0	49.6	49.6
1111	1000.0	1150.0	4.0	0.0	49.1	49.1
1112	1050.0	1150.0	4.0	0.0	48.2	48.2
1113	1100.0	1150.0	4.0	0.0	49.1	49.1
1114	1150.0	1150.0	4.0	0.0	50.8	50.8
1115	1200.0	1150.0	4.0	0.0	52.7	52.7
1116	1250.0	1150.0	4.0	0.0	54.1	54.1
1117	1300.0	1150.0	4.0	0.0	53.6	53.6

1118	1350.0	1150.0	4.0	0.0	51.7	51.7
1119	1400.0	1150.0	4.0	0.0	49.5	49.5
1120	1450.0	1150.0	4.0	0.0	47.6	47.6
1121	1500.0	1150.0	4.0	0.0	45.9	45.9
1122	1550.0	1150.0	4.0	0.0	44.4	44.4
1123	1600.0	1150.0	4.0	0.0	43.1	43.1
1124	1650.0	1150.0	4.0	0.0	42.0	42.0
1125	1700.0	1150.0	4.0	0.0	41.0	41.0
1126	1750.0	1150.0	4.0	0.0	40.0	40.0
1127	1800.0	1150.0	4.0	0.0	39.2	39.2
1128	1850.0	1150.0	4.0	0.0	38.4	38.4
1129	1900.0	1150.0	4.0	0.0	37.7	37.7
1130	1950.0	1150.0	4.0	0.0	37.0	37.0
1131	2000.0	1150.0	4.0	0.0	36.4	36.4
1132	2050.0	1150.0	4.0	0.0	35.8	35.8
1133	2100.0	1150.0	4.0	0.0	35.2	35.2
1134	2150.0	1150.0	4.0	0.0	34.7	34.7
1135	-500.0	1100.0	4.0	0.0	36.1	36.0
1136	-450.0	1100.0	4.0	0.0	36.4	36.4
1137	-400.0	1100.0	4.0	0.0	36.8	36.7
1138	-350.0	1100.0	4.0	0.0	37.1	37.1
1139	-300.0	1100.0	4.0	0.0	37.5	37.5
1140	-250.0	1100.0	4.0	0.0	37.9	37.9
1141	-200.0	1100.0	4.0	0.0	38.4	38.3
1142	-150.0	1100.0	4.0	0.0	38.9	38.8
1143	-100.0	1100.0	4.0	0.0	39.4	39.4
1144	-50.0	1100.0	4.0	0.0	40.0	40.0
1145	0.0	1100.0	4.0	0.0	40.8	40.7
1146	50.0	1100.0	4.0	0.0	41.6	41.5
1147	100.0	1100.0	4.0	0.0	42.5	42.5
1148	150.0	1100.0	4.0	0.0	43.6	43.6
1149	200.0	1100.0	4.0	0.0	45.0	44.9
1150	250.0	1100.0	4.0	0.0	46.5	46.5
1151	300.0	1100.0	4.0	0.0	48.4	48.4
1152	350.0	1100.0	4.0	0.0	50.5	50.5
1153	400.0	1100.0	4.0	0.0	52.6	52.5
1154	450.0	1100.0	4.0	0.0	53.4	53.4
1155	500.0	1100.0	4.0	0.0	52.3	52.2
1156	550.0	1100.0	4.0	0.0	50.7	50.7
1157	600.0	1100.0	4.0	0.0	48.2	48.2
1158	650.0	1100.0	4.0	0.0	46.7	46.7
1159	700.0	1100.0	4.0	0.0	45.5	45.5
1160	750.0	1100.0	4.0	0.0	44.8	44.7
1161	800.0	1100.0	4.0	0.0	44.5	44.5
1162	850.0	1100.0	4.0	0.0	44.7	44.7

1163	900.0	1100.0	4.0	0.0	47.3	47.3
1164	950.0	1100.0	4.0	0.0	47.1	47.1
1165	1000.0	1100.0	4.0	0.0	47.8	47.7
1166	1050.0	1100.0	4.0	0.0	48.6	48.6
1167	1100.0	1100.0	4.0	0.0	49.2	49.1
1168	1150.0	1100.0	4.0	0.0	51.0	51.0
1169	1200.0	1100.0	4.0	0.0	53.0	53.0
1170	1250.0	1100.0	4.0	0.0	54.4	54.4
1171	1300.0	1100.0	4.0	0.0	54.0	54.0
1172	1350.0	1100.0	4.0	0.0	52.0	52.0
1173	1400.0	1100.0	4.0	0.0	49.6	49.6
1174	1450.0	1100.0	4.0	0.0	47.6	47.6
1175	1500.0	1100.0	4.0	0.0	45.9	45.9
1176	1550.0	1100.0	4.0	0.0	44.5	44.4
1177	1600.0	1100.0	4.0	0.0	43.2	43.2
1178	1650.0	1100.0	4.0	0.0	42.0	42.0
1179	1700.0	1100.0	4.0	0.0	41.0	41.0
1180	1750.0	1100.0	4.0	0.0	40.1	40.1
1181	1800.0	1100.0	4.0	0.0	39.2	39.2
1182	1850.0	1100.0	4.0	0.0	38.4	38.4
1183	1900.0	1100.0	4.0	0.0	37.7	37.7
1184	1950.0	1100.0	4.0	0.0	37.0	37.0
1185	2000.0	1100.0	4.0	0.0	36.4	36.4
1186	2050.0	1100.0	4.0	0.0	35.8	35.8
1187	2100.0	1100.0	4.0	0.0	35.2	35.2
1188	2150.0	1100.0	4.0	0.0	34.7	34.7
1189	-500.0	1050.0	4.0	0.0	36.3	36.3
1190	-450.0	1050.0	4.0	0.0	36.7	36.6
1191	-400.0	1050.0	4.0	0.0	37.0	37.0
1192	-350.0	1050.0	4.0	0.0	37.4	37.3
1193	-300.0	1050.0	4.0	0.0	37.7	37.7
1194	-250.0	1050.0	4.0	0.0	38.1	38.1
1195	-200.0	1050.0	4.0	0.0	38.6	38.5
1196	-150.0	1050.0	4.0	0.0	39.0	39.0
1197	-100.0	1050.0	4.0	0.0	39.5	39.5
1198	-50.0	1050.0	4.0	0.0	40.1	40.1
1199	0.0	1050.0	4.0	0.0	40.8	40.7
1200	50.0	1050.0	4.0	0.0	41.6	41.5
1201	100.0	1050.0	4.0	0.0	42.5	42.4
1202	150.0	1050.0	4.0	0.0	43.5	43.5
1203	200.0	1050.0	4.0	0.0	44.8	44.7
1204	250.0	1050.0	4.0	0.0	46.2	46.2
1205	300.0	1050.0	4.0	0.0	47.8	47.8
1206	350.0	1050.0	4.0	0.0	49.6	49.6
1207	400.0	1050.0	4.0	0.0	51.1	51.1

1208	450.0	1050.0	4.0	0.0	51.7	51.7
1209	500.0	1050.0	4.0	0.0	51.1	50.9
1210	550.0	1050.0	4.0	0.0	49.3	49.3
1211	600.0	1050.0	4.0	0.0	47.7	47.7
1212	650.0	1050.0	4.0	0.0	46.3	46.3
1213	700.0	1050.0	4.0	0.0	45.3	45.2
1214	750.0	1050.0	4.0	0.0	44.6	44.5
1215	800.0	1050.0	4.0	0.0	44.3	44.2
1216	850.0	1050.0	4.0	0.0	44.4	44.4
1217	900.0	1050.0	4.0	0.0	45.2	45.2
1218	950.0	1050.0	4.0	0.0	46.5	46.5
1219	1000.0	1050.0	4.0	0.0	47.4	47.3
1220	1050.0	1050.0	4.0	0.0	47.4	47.4
1221	1100.0	1050.0	4.0	0.0	48.7	48.7
1222	1150.0	1050.0	4.0	0.0	50.3	50.3
1223	1200.0	1050.0	4.0	0.0	51.9	51.9
1224	1250.0	1050.0	4.0	0.0	52.9	52.9
1225	1300.0	1050.0	4.0	0.0	52.7	52.7
1226	1350.0	1050.0	4.0	0.0	51.3	51.3
1227	1400.0	1050.0	4.0	0.0	49.1	49.1
1228	1450.0	1050.0	4.0	0.0	47.3	47.3
1229	1500.0	1050.0	4.0	0.0	45.7	45.7
1230	1550.0	1050.0	4.0	0.0	44.3	44.3
1231	1600.0	1050.0	4.0	0.0	43.0	43.0
1232	1650.0	1050.0	4.0	0.0	41.9	41.9
1233	1700.0	1050.0	4.0	0.0	40.9	40.9
1234	1750.0	1050.0	4.0	0.0	40.0	40.0
1235	1800.0	1050.0	4.0	0.0	39.2	39.2
1236	1850.0	1050.0	4.0	0.0	38.4	38.4
1237	1900.0	1050.0	4.0	0.0	37.7	37.7
1238	1950.0	1050.0	4.0	0.0	37.0	37.0
1239	2000.0	1050.0	4.0	0.0	36.4	36.3
1240	2050.0	1050.0	4.0	0.0	35.8	35.8
1241	2100.0	1050.0	4.0	0.0	35.2	35.2
1242	2150.0	1050.0	4.0	0.0	34.7	34.7
1243	-500.0	1000.0	4.0	0.0	36.6	36.6
1244	-450.0	1000.0	4.0	0.0	36.9	36.9
1245	-400.0	1000.0	4.0	0.0	37.3	37.2
1246	-350.0	1000.0	4.0	0.0	37.6	37.6
1247	-300.0	1000.0	4.0	0.0	38.0	37.9
1248	-250.0	1000.0	4.0	0.0	38.3	38.3
1249	-200.0	1000.0	4.0	0.0	38.7	38.7
1250	-150.0	1000.0	4.0	0.0	39.2	39.1
1251	-100.0	1000.0	4.0	0.0	39.6	39.6
1252	-50.0	1000.0	4.0	0.0	40.2	40.1

1253	0.0	1000.0	4.0	0.0	40.8	40.7
1254	50.0	1000.0	4.0	0.0	41.5	41.4
1255	100.0	1000.0	4.0	0.0	42.3	42.2
1256	150.0	1000.0	4.0	0.0	43.2	43.2
1257	200.0	1000.0	4.0	0.0	44.3	44.3
1258	250.0	1000.0	4.0	0.0	45.5	45.5
1259	300.0	1000.0	4.0	0.0	46.9	46.8
1260	350.0	1000.0	4.0	0.0	48.2	48.1
1261	400.0	1000.0	4.0	0.0	49.7	49.1
1262	450.0	1000.0	4.0	0.0	49.8	49.5
1263	500.0	1000.0	4.0	0.0	49.3	49.0
1264	550.0	1000.0	4.0	0.0	48.1	48.0
1265	600.0	1000.0	4.0	0.0	46.8	46.8
1266	650.0	1000.0	4.0	0.0	45.7	45.7
1267	700.0	1000.0	4.0	0.0	44.9	44.8
1268	750.0	1000.0	4.0	0.0	44.3	44.2
1269	800.0	1000.0	4.0	0.0	44.0	43.9
1270	850.0	1000.0	4.0	0.0	44.0	44.0
1271	900.0	1000.0	4.0	0.0	44.7	44.7
1272	950.0	1000.0	4.0	0.0	46.2	46.2
1273	1000.0	1000.0	4.0	0.0	46.7	46.7
1274	1050.0	1000.0	4.0	0.0	46.8	46.8
1275	1100.0	1000.0	4.0	0.0	47.9	47.8
1276	1150.0	1000.0	4.0	0.0	49.1	49.1
1277	1200.0	1000.0	4.0	0.0	50.1	50.1
1278	1250.0	1000.0	4.0	0.0	50.7	50.7
1279	1300.0	1000.0	4.0	0.0	50.7	50.7
1280	1350.0	1000.0	4.0	0.0	49.4	49.4
1281	1400.0	1000.0	4.0	0.0	48.0	48.0
1282	1450.0	1000.0	4.0	0.0	46.5	46.5
1283	1500.0	1000.0	4.0	0.0	45.1	45.1
1284	1550.0	1000.0	4.0	0.0	43.9	43.9
1285	1600.0	1000.0	4.0	0.0	42.7	42.7
1286	1650.0	1000.0	4.0	0.0	41.7	41.7
1287	1700.0	1000.0	4.0	0.0	40.7	40.7
1288	1750.0	1000.0	4.0	0.0	39.9	39.8
1289	1800.0	1000.0	4.0	0.0	39.0	39.0
1290	1850.0	1000.0	4.0	0.0	38.3	38.3
1291	1900.0	1000.0	4.0	0.0	37.6	37.6
1292	1950.0	1000.0	4.0	0.0	36.9	36.9
1293	2000.0	1000.0	4.0	0.0	36.3	36.3
1294	2050.0	1000.0	4.0	0.0	35.7	35.7
1295	2100.0	1000.0	4.0	0.0	35.1	35.1
1296	2150.0	1000.0	4.0	0.0	34.6	34.6
1297	-500.0	950.0	4.0	0.0	36.9	36.8

1298	-450.0	950.0	4.0	0.0	37.2	37.2
1299	-400.0	950.0	4.0	0.0	37.6	37.5
1300	-350.0	950.0	4.0	0.0	37.9	37.8
1301	-300.0	950.0	4.0	0.0	38.2	38.2
1302	-250.0	950.0	4.0	0.0	38.6	38.5
1303	-200.0	950.0	4.0	0.0	38.9	38.9
1304	-150.0	950.0	4.0	0.0	39.3	39.2
1305	-100.0	950.0	4.0	0.0	39.7	39.7
1306	-50.0	950.0	4.0	0.0	40.2	40.1
1307	0.0	950.0	4.0	0.0	40.7	40.7
1308	50.0	950.0	4.0	0.0	41.4	41.3
1309	100.0	950.0	4.0	0.0	42.1	42.0
1310	150.0	950.0	4.0	0.0	42.9	42.8
1311	200.0	950.0	4.0	0.0	43.8	43.7
1312	250.0	950.0	4.0	0.0	44.8	44.7
1313	300.0	950.0	4.0	0.0	45.8	45.7
1314	350.0	950.0	4.0	0.0	46.7	46.6
1315	400.0	950.0	4.0	0.0	47.7	47.3
1316	450.0	950.0	4.0	0.0	47.9	47.5
1317	500.0	950.0	4.0	0.0	47.7	47.3
1318	550.0	950.0	4.0	0.0	46.9	46.6
1319	600.0	950.0	4.0	0.0	45.9	45.8
1320	650.0	950.0	4.0	0.0	45.0	45.0
1321	700.0	950.0	4.0	0.0	44.4	44.3
1322	750.0	950.0	4.0	0.0	43.9	43.8
1323	800.0	950.0	4.0	0.0	43.6	43.6
1324	850.0	950.0	4.0	0.0	43.7	43.6
1325	900.0	950.0	4.0	0.0	44.0	44.0
1326	950.0	950.0	4.0	0.0	45.8	45.8
1327	1000.0	950.0	4.0	0.0	46.3	46.3
1328	1050.0	950.0	4.0	0.0	48.3	48.3
1329	1100.0	950.0	4.0	0.0	46.8	46.8
1330	1150.0	950.0	4.0	0.0	47.6	47.6
1331	1200.0	950.0	4.0	0.0	48.2	48.2
1332	1250.0	950.0	4.0	0.0	48.6	48.6
1333	1300.0	950.0	4.0	0.0	48.4	48.4
1334	1350.0	950.0	4.0	0.0	47.7	47.7
1335	1400.0	950.0	4.0	0.0	46.7	46.7
1336	1450.0	950.0	4.0	0.0	45.6	45.6
1337	1500.0	950.0	4.0	0.0	44.4	44.4
1338	1550.0	950.0	4.0	0.0	43.3	43.3
1339	1600.0	950.0	4.0	0.0	42.3	42.3
1340	1650.0	950.0	4.0	0.0	41.4	41.3
1341	1700.0	950.0	4.0	0.0	40.5	40.5
1342	1750.0	950.0	4.0	0.0	39.6	39.6

1343	1800.0	950.0	4.0	0.0	38.9	38.9
1344	1850.0	950.0	4.0	0.0	38.1	38.1
1345	1900.0	950.0	4.0	0.0	37.4	37.4
1346	1950.0	950.0	4.0	0.0	36.8	36.8
1347	2000.0	950.0	4.0	0.0	36.2	36.2
1348	2050.0	950.0	4.0	0.0	35.6	35.6
1349	2100.0	950.0	4.0	0.0	35.1	35.1
1350	2150.0	950.0	4.0	0.0	34.5	34.5
1351	-500.0	900.0	4.0	0.0	37.2	37.2
1352	-450.0	900.0	4.0	0.0	37.5	37.5
1353	-400.0	900.0	4.0	0.0	37.9	37.8
1354	-350.0	900.0	4.0	0.0	38.2	38.1
1355	-300.0	900.0	4.0	0.0	38.5	38.4
1356	-250.0	900.0	4.0	0.0	38.8	38.7
1357	-200.0	900.0	4.0	0.0	39.1	39.1
1358	-150.0	900.0	4.0	0.0	39.5	39.4
1359	-100.0	900.0	4.0	0.0	39.8	39.8
1360	-50.0	900.0	4.0	0.0	40.2	40.2
1361	0.0	900.0	4.0	0.0	40.7	40.6
1362	50.0	900.0	4.0	0.0	41.2	41.1
1363	100.0	900.0	4.0	0.0	41.8	41.7
1364	150.0	900.0	4.0	0.0	42.5	42.4
1365	200.0	900.0	4.0	0.0	43.2	43.1
1366	250.0	900.0	4.0	0.0	44.0	43.9
1367	300.0	900.0	4.0	0.0	44.8	44.7
1368	350.0	900.0	4.0	0.0	45.5	45.3
1369	400.0	900.0	4.0	0.0	46.2	45.8
1370	450.0	900.0	4.0	0.0	46.4	45.9
1371	500.0	900.0	4.0	0.0	46.3	45.8
1372	550.0	900.0	4.0	0.0	45.8	45.4
1373	600.0	900.0	4.0	0.0	45.0	44.8
1374	650.0	900.0	4.0	0.0	44.4	44.2
1375	700.0	900.0	4.0	0.0	43.8	43.7
1376	750.0	900.0	4.0	0.0	43.5	43.4
1377	800.0	900.0	4.0	0.0	43.3	43.2
1378	850.0	900.0	4.0	0.0	43.3	43.2
1379	900.0	900.0	4.0	0.0	43.5	43.5
1380	950.0	900.0	4.0	0.0	45.7	45.6
1381	1000.0	900.0	4.0	0.0	46.3	46.2
1382	1050.0	900.0	4.0	0.0	45.2	45.2
1383	1100.0	900.0	4.0	0.0	45.6	45.5
1384	1150.0	900.0	4.0	0.0	46.1	46.1
1385	1200.0	900.0	4.0	0.0	46.6	46.6
1386	1250.0	900.0	4.0	0.0	46.8	46.8
1387	1300.0	900.0	4.0	0.0	46.7	46.7

1388	1350.0	900.0	4.0	0.0	46.2	46.2
1389	1400.0	900.0	4.0	0.0	45.5	45.5
1390	1450.0	900.0	4.0	0.0	44.6	44.6
1391	1500.0	900.0	4.0	0.0	43.7	43.6
1392	1550.0	900.0	4.0	0.0	42.7	42.7
1393	1600.0	900.0	4.0	0.0	41.8	41.8
1394	1650.0	900.0	4.0	0.0	41.0	40.9
1395	1700.0	900.0	4.0	0.0	40.1	40.1
1396	1750.0	900.0	4.0	0.0	39.4	39.3
1397	1800.0	900.0	4.0	0.0	38.6	38.6
1398	1850.0	900.0	4.0	0.0	37.9	37.9
1399	1900.0	900.0	4.0	0.0	37.3	37.3
1400	1950.0	900.0	4.0	0.0	36.7	36.6
1401	2000.0	900.0	4.0	0.0	36.1	36.1
1402	2050.0	900.0	4.0	0.0	35.5	35.5
1403	2100.0	900.0	4.0	0.0	35.0	35.0
1404	2150.0	900.0	4.0	0.0	34.5	34.4
1405	-500.0	850.0	4.0	0.0	37.6	37.5
1406	-450.0	850.0	4.0	0.0	37.9	37.9
1407	-400.0	850.0	4.0	0.0	38.2	38.2
1408	-350.0	850.0	4.0	0.0	38.5	38.5
1409	-300.0	850.0	4.0	0.0	38.8	38.8
1410	-250.0	850.0	4.0	0.0	39.1	39.0
1411	-200.0	850.0	4.0	0.0	39.4	39.3
1412	-150.0	850.0	4.0	0.0	39.7	39.6
1413	-100.0	850.0	4.0	0.0	40.0	39.9
1414	-50.0	850.0	4.0	0.0	40.3	40.2
1415	0.0	850.0	4.0	0.0	40.7	40.6
1416	50.0	850.0	4.0	0.0	41.1	41.0
1417	100.0	850.0	4.0	0.0	41.6	41.5
1418	150.0	850.0	4.0	0.0	42.1	42.0
1419	200.0	850.0	4.0	0.0	42.7	42.6
1420	250.0	850.0	4.0	0.0	43.3	43.2
1421	300.0	850.0	4.0	0.0	43.9	43.7
1422	350.0	850.0	4.0	0.0	44.5	44.2
1423	400.0	850.0	4.0	0.0	46.1	44.6
1424	450.0	850.0	4.0	0.0	45.9	44.8
1425	500.0	850.0	4.0	0.0	45.6	44.7
1426	550.0	850.0	4.0	0.0	45.2	44.5
1427	600.0	850.0	4.0	0.0	44.3	44.1
1428	650.0	850.0	4.0	0.0	43.8	43.6
1429	700.0	850.0	4.0	0.0	43.4	43.2
1430	750.0	850.0	4.0	0.0	43.0	42.9
1431	800.0	850.0	4.0	0.0	42.9	42.7
1432	850.0	850.0	4.0	0.0	42.9	42.7

1433	900.0	850.0	4.0	0.0	43.1	42.9
1434	950.0	850.0	4.0	0.0	43.3	43.2
1435	1000.0	850.0	4.0	0.0	43.7	43.6
1436	1050.0	850.0	4.0	0.0	44.1	44.0
1437	1100.0	850.0	4.0	0.0	44.5	44.5
1438	1150.0	850.0	4.0	0.0	44.9	44.9
1439	1200.0	850.0	4.0	0.0	45.2	45.2
1440	1250.0	850.0	4.0	0.0	45.3	45.3
1441	1300.0	850.0	4.0	0.0	45.2	45.2
1442	1350.0	850.0	4.0	0.0	44.8	44.8
1443	1400.0	850.0	4.0	0.0	44.3	44.3
1444	1450.0	850.0	4.0	0.0	43.6	43.6
1445	1500.0	850.0	4.0	0.0	42.8	42.8
1446	1550.0	850.0	4.0	0.0	42.1	42.0
1447	1600.0	850.0	4.0	0.0	41.3	41.3
1448	1650.0	850.0	4.0	0.0	40.5	40.5
1449	1700.0	850.0	4.0	0.0	39.8	39.7
1450	1750.0	850.0	4.0	0.0	39.0	39.0
1451	1800.0	850.0	4.0	0.0	38.4	38.3
1452	1850.0	850.0	4.0	0.0	37.7	37.7
1453	1900.0	850.0	4.0	0.0	37.1	37.1
1454	1950.0	850.0	4.0	0.0	36.5	36.5
1455	2000.0	850.0	4.0	0.0	35.9	35.9
1456	2050.0	850.0	4.0	0.0	35.4	35.3
1457	2100.0	850.0	4.0	0.0	34.8	34.8
1458	2150.0	850.0	4.0	0.0	34.3	34.3
1459	-500.0	800.0	4.0	0.0	38.0	37.9
1460	-450.0	800.0	4.0	0.0	38.3	38.3
1461	-400.0	800.0	4.0	0.0	38.6	38.6
1462	-350.0	800.0	4.0	0.0	38.9	38.9
1463	-300.0	800.0	4.0	0.0	39.2	39.2
1464	-250.0	800.0	4.0	0.0	39.5	39.4
1465	-200.0	800.0	4.0	0.0	39.7	39.6
1466	-150.0	800.0	4.0	0.0	39.9	39.9
1467	-100.0	800.0	4.0	0.0	40.2	40.1
1468	-50.0	800.0	4.0	0.0	40.4	40.3
1469	0.0	800.0	4.0	0.0	40.7	40.6
1470	50.0	800.0	4.0	0.0	41.0	40.9
1471	100.0	800.0	4.0	0.0	41.4	41.3
1472	150.0	800.0	4.0	0.0	41.8	41.7
1473	200.0	800.0	4.0	0.0	42.3	42.1
1474	250.0	800.0	4.0	0.0	42.8	42.6
1475	300.0	800.0	4.0	0.0	43.4	43.0
1476	350.0	800.0	4.0	0.0	43.9	43.4
1477	400.0	800.0	4.0	0.0	45.2	43.8

1478	450.0	800.0	4.0	0.0	45.4	44.1
1479	500.0	800.0	4.0	0.0	45.4	44.2
1480	550.0	800.0	4.0	0.0	45.0	44.1
1481	600.0	800.0	4.0	0.0	44.0	43.7
1482	650.0	800.0	4.0	0.0	43.4	43.1
1483	700.0	800.0	4.0	0.0	43.0	42.7
1484	750.0	800.0	4.0	0.0	42.8	42.4
1485	800.0	800.0	4.0	0.0	42.8	42.3
1486	850.0	800.0	4.0	0.0	43.4	42.3
1487	900.0	800.0	4.0	0.0	42.9	42.4
1488	950.0	800.0	4.0	0.0	42.7	42.6
1489	1000.0	800.0	4.0	0.0	43.0	42.8
1490	1050.0	800.0	4.0	0.0	43.2	43.2
1491	1100.0	800.0	4.0	0.0	43.5	43.5
1492	1150.0	800.0	4.0	0.0	43.8	43.8
1493	1200.0	800.0	4.0	0.0	44.0	44.0
1494	1250.0	800.0	4.0	0.0	44.1	44.0
1495	1300.0	800.0	4.0	0.0	44.0	43.9
1496	1350.0	800.0	4.0	0.0	43.7	43.6
1497	1400.0	800.0	4.0	0.0	43.2	43.2
1498	1450.0	800.0	4.0	0.0	42.7	42.7
1499	1500.0	800.0	4.0	0.0	42.1	42.0
1500	1550.0	800.0	4.0	0.0	41.4	41.4
1501	1600.0	800.0	4.0	0.0	40.7	40.7
1502	1650.0	800.0	4.0	0.0	40.0	40.0
1503	1700.0	800.0	4.0	0.0	39.3	39.3
1504	1750.0	800.0	4.0	0.0	38.7	38.7
1505	1800.0	800.0	4.0	0.0	38.0	38.0
1506	1850.0	800.0	4.0	0.0	37.4	37.4
1507	1900.0	800.0	4.0	0.0	36.8	36.8
1508	1950.0	800.0	4.0	0.0	36.3	36.2
1509	2000.0	800.0	4.0	0.0	35.7	35.7
1510	2050.0	800.0	4.0	0.0	35.2	35.2
1511	2100.0	800.0	4.0	0.0	34.7	34.7
1512	2150.0	800.0	4.0	0.0	34.2	34.2
1513	-500.0	750.0	4.0	0.0	38.4	38.4
1514	-450.0	750.0	4.0	0.0	38.8	38.7
1515	-400.0	750.0	4.0	0.0	39.1	39.1
1516	-350.0	750.0	4.0	0.0	39.4	39.4
1517	-300.0	750.0	4.0	0.0	39.7	39.6
1518	-250.0	750.0	4.0	0.0	39.9	39.8
1519	-200.0	750.0	4.0	0.0	40.1	40.0
1520	-150.0	750.0	4.0	0.0	40.3	40.2
1521	-100.0	750.0	4.0	0.0	40.4	40.4
1522	-50.0	750.0	4.0	0.0	40.6	40.5

1523	0.0	750.0	4.0	0.0	40.8	40.7
1524	50.0	750.0	4.0	0.0	41.0	40.9
1525	100.0	750.0	4.0	0.0	41.3	41.1
1526	150.0	750.0	4.0	0.0	41.6	41.4
1527	200.0	750.0	4.0	0.0	42.0	41.7
1528	250.0	750.0	4.0	0.0	42.5	42.1
1529	300.0	750.0	4.0	0.0	43.0	42.5
1530	350.0	750.0	4.0	0.0	43.7	42.9
1531	400.0	750.0	4.0	0.0	44.7	43.5
1532	450.0	750.0	4.0	0.0	45.2	44.2
1533	500.0	750.0	4.0	0.0	45.8	45.0
1534	550.0	750.0	4.0	0.0	46.5	45.9
1535	600.0	750.0	4.0	0.0	45.0	44.5
1536	650.0	750.0	4.0	0.0	43.4	42.8
1537	700.0	750.0	4.0	0.0	43.3	42.3
1538	750.0	750.0	4.0	0.0	42.9	42.0
1539	800.0	750.0	4.0	0.0	43.5	41.8
1540	850.0	750.0	4.0	0.0	43.0	41.8
1541	900.0	750.0	4.0	0.0	42.7	41.9
1542	950.0	750.0	4.0	0.0	42.3	42.0
1543	1000.0	750.0	4.0	0.0	42.4	42.2
1544	1050.0	750.0	4.0	0.0	42.5	42.4
1545	1100.0	750.0	4.0	0.0	42.7	42.6
1546	1150.0	750.0	4.0	0.0	42.9	42.8
1547	1200.0	750.0	4.0	0.0	43.0	42.9
1548	1250.0	750.0	4.0	0.0	43.0	43.0
1549	1300.0	750.0	4.0	0.0	42.9	42.9
1550	1350.0	750.0	4.0	0.0	42.7	42.6
1551	1400.0	750.0	4.0	0.0	42.3	42.3
1552	1450.0	750.0	4.0	0.0	41.9	41.8
1553	1500.0	750.0	4.0	0.0	41.3	41.3
1554	1550.0	750.0	4.0	0.0	40.7	40.7
1555	1600.0	750.0	4.0	0.0	40.1	40.1
1556	1650.0	750.0	4.0	0.0	39.5	39.5
1557	1700.0	750.0	4.0	0.0	38.9	38.9
1558	1750.0	750.0	4.0	0.0	38.3	38.3
1559	1800.0	750.0	4.0	0.0	37.7	37.7
1560	1850.0	750.0	4.0	0.0	37.1	37.1
1561	1900.0	750.0	4.0	0.0	36.6	36.6
1562	1950.0	750.0	4.0	0.0	36.0	36.0
1563	2000.0	750.0	4.0	0.0	35.5	35.5
1564	2050.0	750.0	4.0	0.0	35.0	35.0
1565	2100.0	750.0	4.0	0.0	34.5	34.5
1566	2150.0	750.0	4.0	0.0	34.0	34.0
1567	-500.0	700.0	4.0	0.0	38.9	38.9

1568	-450.0	700.0	4.0	0.0	39.3	39.3
1569	-400.0	700.0	4.0	0.0	39.6	39.6
1570	-350.0	700.0	4.0	0.0	40.0	39.9
1571	-300.0	700.0	4.0	0.0	40.2	40.2
1572	-250.0	700.0	4.0	0.0	40.4	40.4
1573	-200.0	700.0	4.0	0.0	40.6	40.5
1574	-150.0	700.0	4.0	0.0	40.7	40.7
1575	-100.0	700.0	4.0	0.0	40.8	40.7
1576	-50.0	700.0	4.0	0.0	40.9	40.8
1577	0.0	700.0	4.0	0.0	41.0	40.9
1578	50.0	700.0	4.0	0.0	41.1	41.0
1579	100.0	700.0	4.0	0.0	41.3	41.1
1580	150.0	700.0	4.0	0.0	41.5	41.3
1581	200.0	700.0	4.0	0.0	41.9	41.5
1582	250.0	700.0	4.0	0.0	42.3	41.7
1583	300.0	700.0	4.0	0.0	43.1	42.1
1584	350.0	700.0	4.0	0.0	44.4	42.6
1585	400.0	700.0	4.0	0.0	46.8	43.8
1586	450.0	700.0	4.0	0.0	48.8	47.7
1587	500.0	700.0	4.0	0.0	59.9	59.9
1588	550.0	700.0	4.0	0.0	48.9	48.7
1589	600.0	700.0	4.0	0.0	44.7	44.3
1590	650.0	700.0	4.0	0.0	44.0	42.5
1591	700.0	700.0	4.0	0.0	43.0	41.9
1592	750.0	700.0	4.0	0.0	42.8	41.6
1593	800.0	700.0	4.0	0.0	42.9	41.4
1594	850.0	700.0	4.0	0.0	42.7	41.4
1595	900.0	700.0	4.0	0.0	42.4	41.5
1596	950.0	700.0	4.0	0.0	42.0	41.6
1597	1000.0	700.0	4.0	0.0	42.0	41.7
1598	1050.0	700.0	4.0	0.0	42.0	41.8
1599	1100.0	700.0	4.0	0.0	42.1	41.9
1600	1150.0	700.0	4.0	0.0	42.1	42.0
1601	1200.0	700.0	4.0	0.0	42.2	42.1
1602	1250.0	700.0	4.0	0.0	42.1	42.1
1603	1300.0	700.0	4.0	0.0	42.1	42.0
1604	1350.0	700.0	4.0	0.0	41.9	41.8
1605	1400.0	700.0	4.0	0.0	41.6	41.5
1606	1450.0	700.0	4.0	0.0	41.2	41.1
1607	1500.0	700.0	4.0	0.0	40.7	40.7
1608	1550.0	700.0	4.0	0.0	40.2	40.1
1609	1600.0	700.0	4.0	0.0	39.6	39.6
1610	1650.0	700.0	4.0	0.0	39.0	39.0
1611	1700.0	700.0	4.0	0.0	38.5	38.5
1612	1750.0	700.0	4.0	0.0	37.9	37.9

1613	1800.0	700.0	4.0	0.0	37.4	37.4
1614	1850.0	700.0	4.0	0.0	36.8	36.8
1615	1900.0	700.0	4.0	0.0	36.3	36.3
1616	1950.0	700.0	4.0	0.0	35.8	35.8
1617	2000.0	700.0	4.0	0.0	35.3	35.3
1618	2050.0	700.0	4.0	0.0	34.8	34.8
1619	2100.0	700.0	4.0	0.0	34.3	34.3
1620	2150.0	700.0	4.0	0.0	33.9	33.9
1621	-500.0	650.0	4.0	0.0	39.4	39.4
1622	-450.0	650.0	4.0	0.0	39.9	39.8
1623	-400.0	650.0	4.0	0.0	40.3	40.2
1624	-350.0	650.0	4.0	0.0	40.6	40.6
1625	-300.0	650.0	4.0	0.0	40.9	40.8
1626	-250.0	650.0	4.0	0.0	41.1	41.0
1627	-200.0	650.0	4.0	0.0	41.2	41.2
1628	-150.0	650.0	4.0	0.0	41.3	41.2
1629	-100.0	650.0	4.0	0.0	41.3	41.2
1630	-50.0	650.0	4.0	0.0	41.3	41.2
1631	0.0	650.0	4.0	0.0	41.3	41.2
1632	50.0	650.0	4.0	0.0	41.3	41.1
1633	100.0	650.0	4.0	0.0	41.3	41.1
1634	150.0	650.0	4.0	0.0	41.5	41.2
1635	200.0	650.0	4.0	0.0	41.8	41.3
1636	250.0	650.0	4.0	0.0	42.3	41.5
1637	300.0	650.0	4.0	0.0	43.4	41.8
1638	350.0	650.0	4.0	0.0	51.0	42.4
1639	400.0	650.0	4.0	0.0	50.3	43.6
1640	450.0	650.0	4.0	0.0	47.5	45.8
1641	500.0	650.0	4.0	0.0	46.2	45.1
1642	550.0	650.0	4.0	0.0	44.8	44.0
1643	600.0	650.0	4.0	0.0	43.9	42.9
1644	650.0	650.0	4.0	0.0	43.4	42.0
1645	700.0	650.0	4.0	0.0	42.8	41.4
1646	750.0	650.0	4.0	0.0	42.5	41.2
1647	800.0	650.0	4.0	0.0	42.7	41.1
1648	850.0	650.0	4.0	0.0	42.5	41.1
1649	900.0	650.0	4.0	0.0	42.6	41.4
1650	950.0	650.0	4.0	0.0	42.2	41.7
1651	1000.0	650.0	4.0	0.0	42.0	41.6
1652	1050.0	650.0	4.0	0.0	41.7	41.4
1653	1100.0	650.0	4.0	0.0	41.5	41.3
1654	1150.0	650.0	4.0	0.0	41.5	41.3
1655	1200.0	650.0	4.0	0.0	41.5	41.4
1656	1250.0	650.0	4.0	0.0	41.5	41.4
1657	1300.0	650.0	4.0	0.0	41.5	41.4

1658	1350.0	650.0	4.0	0.0	41.4	41.3
1659	1400.0	650.0	4.0	0.0	41.1	41.1
1660	1450.0	650.0	4.0	0.0	40.7	40.6
1661	1500.0	650.0	4.0	0.0	40.2	40.1
1662	1550.0	650.0	4.0	0.0	39.6	39.6
1663	1600.0	650.0	4.0	0.0	39.1	39.1
1664	1650.0	650.0	4.0	0.0	38.6	38.6
1665	1700.0	650.0	4.0	0.0	38.1	38.0
1666	1750.0	650.0	4.0	0.0	37.5	37.5
1667	1800.0	650.0	4.0	0.0	37.0	37.0
1668	1850.0	650.0	4.0	0.0	36.5	36.5
1669	1900.0	650.0	4.0	0.0	36.0	36.0
1670	1950.0	650.0	4.0	0.0	35.5	35.5
1671	2000.0	650.0	4.0	0.0	35.0	35.0
1672	2050.0	650.0	4.0	0.0	34.6	34.6
1673	2100.0	650.0	4.0	0.0	34.1	34.1
1674	2150.0	650.0	4.0	0.0	33.7	33.7
1675	-500.0	600.0	4.0	0.0	40.0	40.0
1676	-450.0	600.0	4.0	0.0	40.5	40.5
1677	-400.0	600.0	4.0	0.0	41.0	40.9
1678	-350.0	600.0	4.0	0.0	41.3	41.3
1679	-300.0	600.0	4.0	0.0	41.6	41.6
1680	-250.0	600.0	4.0	0.0	41.8	41.8
1681	-200.0	600.0	4.0	0.0	42.0	41.9
1682	-150.0	600.0	4.0	0.0	42.0	41.9
1683	-100.0	600.0	4.0	0.0	41.9	41.8
1684	-50.0	600.0	4.0	0.0	41.8	41.7
1685	0.0	600.0	4.0	0.0	41.7	41.6
1686	50.0	600.0	4.0	0.0	41.6	41.4
1687	100.0	600.0	4.0	0.0	41.5	41.3
1688	150.0	600.0	4.0	0.0	41.5	41.2
1689	200.0	600.0	4.0	0.0	41.7	41.2
1690	250.0	600.0	4.0	0.0	42.2	41.3
1691	300.0	600.0	4.0	0.0	43.3	41.6
1692	350.0	600.0	4.0	0.0	45.8	42.2
1693	400.0	600.0	4.0	0.0	46.7	43.6
1694	450.0	600.0	4.0	0.0	46.5	45.0
1695	500.0	600.0	4.0	0.0	46.0	44.9
1696	550.0	600.0	4.0	0.0	44.7	43.7
1697	600.0	600.0	4.0	0.0	43.5	42.4
1698	650.0	600.0	4.0	0.0	43.1	41.5
1699	700.0	600.0	4.0	0.0	42.3	41.0
1700	750.0	600.0	4.0	0.0	42.0	40.8
1701	800.0	600.0	4.0	0.0	42.1	40.7
1702	850.0	600.0	4.0	0.0	42.7	40.9

1703	900.0	600.0	4.0	0.0	43.4	42.0
1704	950.0	600.0	4.0	0.0	45.6	45.0
1705	1000.0	600.0	4.0	0.0	42.9	42.2
1706	1050.0	600.0	4.0	0.0	41.7	41.2
1707	1100.0	600.0	4.0	0.0	41.1	40.8
1708	1150.0	600.0	4.0	0.0	40.9	40.8
1709	1200.0	600.0	4.0	0.0	40.9	40.8
1710	1250.0	600.0	4.0	0.0	41.1	41.0
1711	1300.0	600.0	4.0	0.0	41.3	41.3
1712	1350.0	600.0	4.0	0.0	41.5	41.5
1713	1400.0	600.0	4.0	0.0	41.3	41.2
1714	1450.0	600.0	4.0	0.0	40.6	40.5
1715	1500.0	600.0	4.0	0.0	39.8	39.8
1716	1550.0	600.0	4.0	0.0	39.2	39.2
1717	1600.0	600.0	4.0	0.0	38.7	38.6
1718	1650.0	600.0	4.0	0.0	38.1	38.1
1719	1700.0	600.0	4.0	0.0	37.7	37.6
1720	1750.0	600.0	4.0	0.0	37.2	37.1
1721	1800.0	600.0	4.0	0.0	36.7	36.6
1722	1850.0	600.0	4.0	0.0	36.2	36.2
1723	1900.0	600.0	4.0	0.0	35.7	35.7
1724	1950.0	600.0	4.0	0.0	35.2	35.2
1725	2000.0	600.0	4.0	0.0	34.8	34.8
1726	2050.0	600.0	4.0	0.0	34.3	34.3
1727	2100.0	600.0	4.0	0.0	33.9	33.9
1728	2150.0	600.0	4.0	0.0	33.5	33.5
1729	-500.0	550.0	4.0	0.0	40.6	40.6
1730	-450.0	550.0	4.0	0.0	41.2	41.2
1731	-400.0	550.0	4.0	0.0	41.7	41.7
1732	-350.0	550.0	4.0	0.0	42.2	42.2
1733	-300.0	550.0	4.0	0.0	42.5	42.5
1734	-250.0	550.0	4.0	0.0	42.8	42.7
1735	-200.0	550.0	4.0	0.0	42.9	42.8
1736	-150.0	550.0	4.0	0.0	42.8	42.8
1737	-100.0	550.0	4.0	0.0	42.7	42.6
1738	-50.0	550.0	4.0	0.0	42.4	42.4
1739	0.0	550.0	4.0	0.0	42.2	42.1
1740	50.0	550.0	4.0	0.0	41.9	41.8
1741	100.0	550.0	4.0	0.0	41.7	41.5
1742	150.0	550.0	4.0	0.0	41.6	41.3
1743	200.0	550.0	4.0	0.0	41.7	41.2
1744	250.0	550.0	4.0	0.0	42.1	41.2
1745	300.0	550.0	4.0	0.0	43.2	41.5
1746	350.0	550.0	4.0	0.0	48.0	42.2
1747	400.0	550.0	4.0	0.0	61.1	45.6

1748	450.0	550.0	4.0	0.0	56.8	56.7
1749	500.0	550.0	4.0	0.0	54.0	53.9
1750	550.0	550.0	4.0	0.0	47.6	47.1
1751	600.0	550.0	4.0	0.0	43.5	42.5
1752	650.0	550.0	4.0	0.0	42.7	41.2
1753	700.0	550.0	4.0	0.0	42.2	40.6
1754	750.0	550.0	4.0	0.0	42.9	40.4
1755	800.0	550.0	4.0	0.0	45.2	40.3
1756	850.0	550.0	4.0	0.0	42.4	40.6
1757	900.0	550.0	4.0	0.0	43.7	42.1
1758	950.0	550.0	4.0	0.0	51.4	49.2
1759	1000.0	550.0	4.0	0.0	45.3	43.9
1760	1050.0	550.0	4.0	0.0	41.9	41.0
1761	1100.0	550.0	4.0	0.0	40.8	40.4
1762	1150.0	550.0	4.0	0.0	40.5	40.2
1763	1200.0	550.0	4.0	0.0	40.5	40.3
1764	1250.0	550.0	4.0	0.0	40.9	40.8
1765	1300.0	550.0	4.0	0.0	42.2	42.1
1766	1350.0	550.0	4.0	0.0	44.0	43.9
1767	1400.0	550.0	4.0	0.0	43.7	43.7
1768	1450.0	550.0	4.0	0.0	41.0	41.0
1769	1500.0	550.0	4.0	0.0	39.6	39.6
1770	1550.0	550.0	4.0	0.0	38.8	38.8
1771	1600.0	550.0	4.0	0.0	38.2	38.2
1772	1650.0	550.0	4.0	0.0	37.7	37.7
1773	1700.0	550.0	4.0	0.0	37.2	37.2
1774	1750.0	550.0	4.0	0.0	36.8	36.7
1775	1800.0	550.0	4.0	0.0	36.3	36.3
1776	1850.0	550.0	4.0	0.0	35.9	35.8
1777	1900.0	550.0	4.0	0.0	35.4	35.4
1778	1950.0	550.0	4.0	0.0	35.0	34.9
1779	2000.0	550.0	4.0	0.0	34.5	34.5
1780	2050.0	550.0	4.0	0.0	34.1	34.1
1781	2100.0	550.0	4.0	0.0	33.7	33.7
1782	2150.0	550.0	4.0	0.0	33.3	33.3
1783	-500.0	500.0	4.0	0.0	41.3	41.3
1784	-450.0	500.0	4.0	0.0	42.0	42.0
1785	-400.0	500.0	4.0	0.0	42.6	42.6
1786	-350.0	500.0	4.0	0.0	43.2	43.1
1787	-300.0	500.0	4.0	0.0	43.6	43.6
1788	-250.0	500.0	4.0	0.0	43.9	43.8
1789	-200.0	500.0	4.0	0.0	43.9	43.9
1790	-150.0	500.0	4.0	0.0	43.8	43.8
1791	-100.0	500.0	4.0	0.0	43.6	43.5
1792	-50.0	500.0	4.0	0.0	43.2	43.1

1793	0.0	500.0	4.0	0.0	42.8	42.7
1794	50.0	500.0	4.0	0.0	42.4	42.3
1795	100.0	500.0	4.0	0.0	42.0	41.9
1796	150.0	500.0	4.0	0.0	41.8	41.5
1797	200.0	500.0	4.0	0.0	41.7	41.3
1798	250.0	500.0	4.0	0.0	41.8	41.2
1799	300.0	500.0	4.0	0.0	42.4	41.2
1800	350.0	500.0	4.0	0.0	43.6	41.7
1801	400.0	500.0	4.0	0.0	45.0	43.1
1802	450.0	500.0	4.0	0.0	45.4	44.5
1803	500.0	500.0	4.0	0.0	45.7	45.3
1804	550.0	500.0	4.0	0.0	45.3	45.0
1805	600.0	500.0	4.0	0.0	42.4	42.0
1806	650.0	500.0	4.0	0.0	41.8	40.8
1807	700.0	500.0	4.0	0.0	41.5	40.2
1808	750.0	500.0	4.0	0.0	42.3	40.0
1809	800.0	500.0	4.0	0.0	43.6	39.9
1810	850.0	500.0	4.0	0.0	41.7	40.1
1811	900.0	500.0	4.0	0.0	42.7	40.9
1812	950.0	500.0	4.0	0.0	46.4	43.2
1813	1000.0	500.0	4.0	0.0	48.6	42.4
1814	1050.0	500.0	4.0	0.0	41.7	40.4
1815	1100.0	500.0	4.0	0.0	40.4	39.8
1816	1150.0	500.0	4.0	0.0	40.0	39.7
1817	1200.0	500.0	4.0	0.0	40.1	39.9
1818	1250.0	500.0	4.0	0.0	40.8	40.7
1819	1300.0	500.0	4.0	0.0	44.1	44.0
1820	1350.0	500.0	4.0	0.0	57.6	57.6
1821	1400.0	500.0	4.0	0.0	49.2	49.2
1822	1450.0	500.0	4.0	0.0	41.3	41.3
1823	1500.0	500.0	4.0	0.0	39.3	39.3
1824	1550.0	500.0	4.0	0.0	38.4	38.4
1825	1600.0	500.0	4.0	0.0	37.8	37.8
1826	1650.0	500.0	4.0	0.0	37.3	37.3
1827	1700.0	500.0	4.0	0.0	36.8	36.8
1828	1750.0	500.0	4.0	0.0	36.4	36.4
1829	1800.0	500.0	4.0	0.0	36.0	35.9
1830	1850.0	500.0	4.0	0.0	35.5	35.5
1831	1900.0	500.0	4.0	0.0	35.1	35.1
1832	1950.0	500.0	4.0	0.0	34.7	34.6
1833	2000.0	500.0	4.0	0.0	34.2	34.2
1834	2050.0	500.0	4.0	0.0	33.8	33.8
1835	2100.0	500.0	4.0	0.0	33.5	33.4
1836	2150.0	500.0	4.0	0.0	33.1	33.0
1837	-500.0	450.0	4.0	0.0	42.0	42.0

1838	-450.0	450.0	4.0	0.0	42.8	42.8
1839	-400.0	450.0	4.0	0.0	43.6	43.6
1840	-350.0	450.0	4.0	0.0	44.3	44.3
1841	-300.0	450.0	4.0	0.0	44.8	44.8
1842	-250.0	450.0	4.0	0.0	45.2	45.1
1843	-200.0	450.0	4.0	0.0	45.2	45.2
1844	-150.0	450.0	4.0	0.0	45.0	45.0
1845	-100.0	450.0	4.0	0.0	44.6	44.6
1846	-50.0	450.0	4.0	0.0	44.1	44.0
1847	0.0	450.0	4.0	0.0	43.5	43.4
1848	50.0	450.0	4.0	0.0	42.9	42.8
1849	100.0	450.0	4.0	0.0	42.4	42.2
1850	150.0	450.0	4.0	0.0	42.0	41.8
1851	200.0	450.0	4.0	0.0	41.7	41.4
1852	250.0	450.0	4.0	0.0	41.6	41.1
1853	300.0	450.0	4.0	0.0	41.7	41.0
1854	350.0	450.0	4.0	0.0	42.1	41.1
1855	400.0	450.0	4.0	0.0	42.4	41.5
1856	450.0	450.0	4.0	0.0	42.6	41.9
1857	500.0	450.0	4.0	0.0	42.5	42.0
1858	550.0	450.0	4.0	0.0	42.0	41.6
1859	600.0	450.0	4.0	0.0	41.2	40.8
1860	650.0	450.0	4.0	0.0	40.6	40.2
1861	700.0	450.0	4.0	0.0	40.3	39.8
1862	750.0	450.0	4.0	0.0	40.1	39.5
1863	800.0	450.0	4.0	0.0	40.0	39.4
1864	850.0	450.0	4.0	0.0	40.2	39.5
1865	900.0	450.0	4.0	0.0	40.7	39.8
1866	950.0	450.0	4.0	0.0	41.7	40.1
1867	1000.0	450.0	4.0	0.0	42.0	40.0
1868	1050.0	450.0	4.0	0.0	40.5	39.5
1869	1100.0	450.0	4.0	0.0	39.8	39.2
1870	1150.0	450.0	4.0	0.0	39.5	39.2
1871	1200.0	450.0	4.0	0.0	39.5	39.3
1872	1250.0	450.0	4.0	0.0	40.0	39.9
1873	1300.0	450.0	4.0	0.0	41.6	41.5
1874	1350.0	450.0	4.0	0.0	43.1	43.1
1875	1400.0	450.0	4.0	0.0	41.9	41.9
1876	1450.0	450.0	4.0	0.0	40.0	39.9
1877	1500.0	450.0	4.0	0.0	38.7	38.7
1878	1550.0	450.0	4.0	0.0	37.9	37.9
1879	1600.0	450.0	4.0	0.0	37.3	37.3
1880	1650.0	450.0	4.0	0.0	36.9	36.8
1881	1700.0	450.0	4.0	0.0	36.4	36.4
1882	1750.0	450.0	4.0	0.0	36.0	36.0

1883	1800.0	450.0	4.0	0.0	35.6	35.6
1884	1850.0	450.0	4.0	0.0	35.2	35.2
1885	1900.0	450.0	4.0	0.0	34.8	34.8
1886	1950.0	450.0	4.0	0.0	34.4	34.4
1887	2000.0	450.0	4.0	0.0	34.0	34.0
1888	2050.0	450.0	4.0	0.0	33.6	33.6
1889	2100.0	450.0	4.0	0.0	33.2	33.2
1890	2150.0	450.0	4.0	0.0	32.8	32.8
1891	-500.0	400.0	4.0	0.0	42.7	42.7
1892	-450.0	400.0	4.0	0.0	43.6	43.6
1893	-400.0	400.0	4.0	0.0	44.6	44.6
1894	-350.0	400.0	4.0	0.0	45.5	45.5
1895	-300.0	400.0	4.0	0.0	46.2	46.2
1896	-250.0	400.0	4.0	0.0	46.7	46.7
1897	-200.0	400.0	4.0	0.0	46.8	46.8
1898	-150.0	400.0	4.0	0.0	46.5	46.5
1899	-100.0	400.0	4.0	0.0	45.9	45.8
1900	-50.0	400.0	4.0	0.0	45.1	45.1
1901	0.0	400.0	4.0	0.0	44.3	44.2
1902	50.0	400.0	4.0	0.0	43.5	43.4
1903	100.0	400.0	4.0	0.0	42.8	42.7
1904	150.0	400.0	4.0	0.0	42.2	42.0
1905	200.0	400.0	4.0	0.0	41.7	41.5
1906	250.0	400.0	4.0	0.0	41.4	41.1
1907	300.0	400.0	4.0	0.0	41.3	40.8
1908	350.0	400.0	4.0	0.0	41.3	40.7
1909	400.0	400.0	4.0	0.0	41.3	40.7
1910	450.0	400.0	4.0	0.0	41.2	40.7
1911	500.0	400.0	4.0	0.0	41.1	40.6
1912	550.0	400.0	4.0	0.0	40.7	40.3
1913	600.0	400.0	4.0	0.0	40.3	39.9
1914	650.0	400.0	4.0	0.0	40.0	39.6
1915	700.0	400.0	4.0	0.0	39.7	39.3
1916	750.0	400.0	4.0	0.0	39.5	39.1
1917	800.0	400.0	4.0	0.0	39.4	39.0
1918	850.0	400.0	4.0	0.0	39.4	38.9
1919	900.0	400.0	4.0	0.0	39.6	39.0
1920	950.0	400.0	4.0	0.0	39.8	39.0
1921	1000.0	400.0	4.0	0.0	39.8	38.9
1922	1050.0	400.0	4.0	0.0	39.4	38.8
1923	1100.0	400.0	4.0	0.0	39.1	38.7
1924	1150.0	400.0	4.0	0.0	38.9	38.6
1925	1200.0	400.0	4.0	0.0	38.9	38.7
1926	1250.0	400.0	4.0	0.0	39.1	39.0
1927	1300.0	400.0	4.0	0.0	39.5	39.4

1928	1350.0	400.0	4.0	0.0	39.8	39.7
1929	1400.0	400.0	4.0	0.0	39.4	39.4
1930	1450.0	400.0	4.0	0.0	38.7	38.6
1931	1500.0	400.0	4.0	0.0	38.0	37.9
1932	1550.0	400.0	4.0	0.0	37.4	37.3
1933	1600.0	400.0	4.0	0.0	36.9	36.8
1934	1650.0	400.0	4.0	0.0	36.4	36.4
1935	1700.0	400.0	4.0	0.0	36.0	36.0
1936	1750.0	400.0	4.0	0.0	35.6	35.6
1937	1800.0	400.0	4.0	0.0	35.2	35.2
1938	1850.0	400.0	4.0	0.0	34.9	34.8
1939	1900.0	400.0	4.0	0.0	34.5	34.4
1940	1950.0	400.0	4.0	0.0	34.1	34.1
1941	2000.0	400.0	4.0	0.0	33.7	33.7
1942	2050.0	400.0	4.0	0.0	33.3	33.3
1943	2100.0	400.0	4.0	0.0	33.0	32.9
1944	2150.0	400.0	4.0	0.0	32.6	32.6
1945	-500.0	350.0	4.0	0.0	43.3	43.3
1946	-450.0	350.0	4.0	0.0	44.4	44.4
1947	-400.0	350.0	4.0	0.0	45.6	45.6
1948	-350.0	350.0	4.0	0.0	46.8	46.8
1949	-300.0	350.0	4.0	0.0	47.8	47.8
1950	-250.0	350.0	4.0	0.0	48.5	48.5
1951	-200.0	350.0	4.0	0.0	48.6	48.6
1952	-150.0	350.0	4.0	0.0	48.1	48.1
1953	-100.0	350.0	4.0	0.0	47.2	47.2
1954	-50.0	350.0	4.0	0.0	46.2	46.1
1955	0.0	350.0	4.0	0.0	45.1	45.0
1956	50.0	350.0	4.0	0.0	44.0	44.0
1957	100.0	350.0	4.0	0.0	43.1	43.1
1958	150.0	350.0	4.0	0.0	42.4	42.3
1959	200.0	350.0	4.0	0.0	41.8	41.6
1960	250.0	350.0	4.0	0.0	41.3	41.1
1961	300.0	350.0	4.0	0.0	41.0	40.7
1962	350.0	350.0	4.0	0.0	40.8	40.4
1963	400.0	350.0	4.0	0.0	40.6	40.2
1964	450.0	350.0	4.0	0.0	40.4	40.0
1965	500.0	350.0	4.0	0.0	40.2	39.8
1966	550.0	350.0	4.0	0.0	40.0	39.6
1967	600.0	350.0	4.0	0.0	39.7	39.3
1968	650.0	350.0	4.0	0.0	39.4	39.1
1969	700.0	350.0	4.0	0.0	39.2	38.8
1970	750.0	350.0	4.0	0.0	39.0	38.6
1971	800.0	350.0	4.0	0.0	38.9	38.5
1972	850.0	350.0	4.0	0.0	38.8	38.4

1973	900.0	350.0	4.0	0.0	38.8	38.4
1974	950.0	350.0	4.0	0.0	38.8	38.3
1975	1000.0	350.0	4.0	0.0	38.8	38.3
1976	1050.0	350.0	4.0	0.0	38.6	38.2
1977	1100.0	350.0	4.0	0.0	38.4	38.1
1978	1150.0	350.0	4.0	0.0	38.3	38.0
1979	1200.0	350.0	4.0	0.0	38.2	38.1
1980	1250.0	350.0	4.0	0.0	38.3	38.1
1981	1300.0	350.0	4.0	0.0	38.3	38.2
1982	1350.0	350.0	4.0	0.0	38.3	38.2
1983	1400.0	350.0	4.0	0.0	38.1	38.0
1984	1450.0	350.0	4.0	0.0	37.7	37.6
1985	1500.0	350.0	4.0	0.0	37.2	37.2
1986	1550.0	350.0	4.0	0.0	36.8	36.7
1987	1600.0	350.0	4.0	0.0	36.4	36.3
1988	1650.0	350.0	4.0	0.0	36.0	35.9
1989	1700.0	350.0	4.0	0.0	35.6	35.6
1990	1750.0	350.0	4.0	0.0	35.3	35.2
1991	1800.0	350.0	4.0	0.0	34.9	34.9
1992	1850.0	350.0	4.0	0.0	34.5	34.5
1993	1900.0	350.0	4.0	0.0	34.1	34.1
1994	1950.0	350.0	4.0	0.0	33.8	33.7
1995	2000.0	350.0	4.0	0.0	33.4	33.4
1996	2050.0	350.0	4.0	0.0	33.1	33.0
1997	2100.0	350.0	4.0	0.0	32.7	32.7
1998	2150.0	350.0	4.0	0.0	32.4	32.4
1999	-500.0	300.0	4.0	0.0	43.8	43.8
2000	-450.0	300.0	4.0	0.0	45.2	45.1
2001	-400.0	300.0	4.0	0.0	46.6	46.6
2002	-350.0	300.0	4.0	0.0	48.1	48.1
2003	-300.0	300.0	4.0	0.0	49.5	49.5
2004	-250.0	300.0	4.0	0.0	50.6	50.6
2005	-200.0	300.0	4.0	0.0	50.7	50.7
2006	-150.0	300.0	4.0	0.0	50.0	50.0
2007	-100.0	300.0	4.0	0.0	48.6	48.6
2008	-50.0	300.0	4.0	0.0	47.2	47.2
2009	0.0	300.0	4.0	0.0	45.8	45.8
2010	50.0	300.0	4.0	0.0	44.5	44.5
2011	100.0	300.0	4.0	0.0	43.5	43.4
2012	150.0	300.0	4.0	0.0	42.6	42.5
2013	200.0	300.0	4.0	0.0	41.8	41.7
2014	250.0	300.0	4.0	0.0	41.3	41.1
2015	300.0	300.0	4.0	0.0	40.8	40.6
2016	350.0	300.0	4.0	0.0	40.4	40.2
2017	400.0	300.0	4.0	0.0	40.2	39.9

2018	450.0	300.0	4.0	0.0	39.9	39.6
2019	500.0	300.0	4.0	0.0	39.6	39.3
2020	550.0	300.0	4.0	0.0	39.4	39.1
2021	600.0	300.0	4.0	0.0	39.1	38.9
2022	650.0	300.0	4.0	0.0	38.9	38.6
2023	700.0	300.0	4.0	0.0	38.7	38.4
2024	750.0	300.0	4.0	0.0	38.5	38.2
2025	800.0	300.0	4.0	0.0	38.4	38.1
2026	850.0	300.0	4.0	0.0	38.3	38.0
2027	900.0	300.0	4.0	0.0	38.2	37.9
2028	950.0	300.0	4.0	0.0	38.2	37.8
2029	1000.0	300.0	4.0	0.0	38.1	37.7
2030	1050.0	300.0	4.0	0.0	38.0	37.6
2031	1100.0	300.0	4.0	0.0	37.8	37.6
2032	1150.0	300.0	4.0	0.0	37.7	37.5
2033	1200.0	300.0	4.0	0.0	37.6	37.5
2034	1250.0	300.0	4.0	0.0	37.6	37.5
2035	1300.0	300.0	4.0	0.0	37.5	37.4
2036	1350.0	300.0	4.0	0.0	37.4	37.3
2037	1400.0	300.0	4.0	0.0	37.2	37.1
2038	1450.0	300.0	4.0	0.0	37.0	36.9
2039	1500.0	300.0	4.0	0.0	36.6	36.5
2040	1550.0	300.0	4.0	0.0	36.3	36.2
2041	1600.0	300.0	4.0	0.0	35.9	35.9
2042	1650.0	300.0	4.0	0.0	35.6	35.5
2043	1700.0	300.0	4.0	0.0	35.2	35.2
2044	1750.0	300.0	4.0	0.0	34.9	34.8
2045	1800.0	300.0	4.0	0.0	34.5	34.5
2046	1850.0	300.0	4.0	0.0	34.2	34.2
2047	1900.0	300.0	4.0	0.0	33.8	33.8
2048	1950.0	300.0	4.0	0.0	33.5	33.4
2049	2000.0	300.0	4.0	0.0	33.1	33.1
2050	2050.0	300.0	4.0	0.0	32.8	32.8
2051	2100.0	300.0	4.0	0.0	32.5	32.4
2052	2150.0	300.0	4.0	0.0	32.1	32.1
2053	-500.0	250.0	4.0	0.0	44.2	44.2
2054	-450.0	250.0	4.0	0.0	45.7	45.7
2055	-400.0	250.0	4.0	0.0	47.3	47.3
2056	-350.0	250.0	4.0	0.0	49.2	49.2
2057	-300.0	250.0	4.0	0.0	51.1	51.1
2058	-250.0	250.0	4.0	0.0	52.7	52.7
2059	-200.0	250.0	4.0	0.0	52.9	52.9
2060	-150.0	250.0	4.0	0.0	51.7	51.7
2061	-100.0	250.0	4.0	0.0	49.9	49.8
2062	-50.0	250.0	4.0	0.0	48.0	48.0

2063	0.0	250.0	4.0	0.0	46.3	46.3
2064	50.0	250.0	4.0	0.0	44.9	44.9
2065	100.0	250.0	4.0	0.0	43.7	43.7
2066	150.0	250.0	4.0	0.0	42.7	42.6
2067	200.0	250.0	4.0	0.0	41.9	41.8
2068	250.0	250.0	4.0	0.0	41.2	41.1
2069	300.0	250.0	4.0	0.0	40.6	40.5
2070	350.0	250.0	4.0	0.0	40.2	40.0
2071	400.0	250.0	4.0	0.0	39.8	39.6
2072	450.0	250.0	4.0	0.0	39.5	39.3
2073	500.0	250.0	4.0	0.0	39.2	39.0
2074	550.0	250.0	4.0	0.0	38.9	38.7
2075	600.0	250.0	4.0	0.0	38.7	38.5
2076	650.0	250.0	4.0	0.0	38.5	38.2
2077	700.0	250.0	4.0	0.0	38.3	38.0
2078	750.0	250.0	4.0	0.0	38.1	37.8
2079	800.0	250.0	4.0	0.0	37.9	37.7
2080	850.0	250.0	4.0	0.0	37.8	37.6
2081	900.0	250.0	4.0	0.0	37.7	37.5
2082	950.0	250.0	4.0	0.0	37.6	37.4
2083	1000.0	250.0	4.0	0.0	37.5	37.3
2084	1050.0	250.0	4.0	0.0	37.4	37.2
2085	1100.0	250.0	4.0	0.0	37.3	37.1
2086	1150.0	250.0	4.0	0.0	37.2	37.0
2087	1200.0	250.0	4.0	0.0	37.1	36.9
2088	1250.0	250.0	4.0	0.0	37.0	36.9
2089	1300.0	250.0	4.0	0.0	36.9	36.8
2090	1350.0	250.0	4.0	0.0	36.8	36.7
2091	1400.0	250.0	4.0	0.0	36.6	36.5
2092	1450.0	250.0	4.0	0.0	36.3	36.3
2093	1500.0	250.0	4.0	0.0	36.1	36.0
2094	1550.0	250.0	4.0	0.0	35.8	35.7
2095	1600.0	250.0	4.0	0.0	35.5	35.4
2096	1650.0	250.0	4.0	0.0	35.2	35.1
2097	1700.0	250.0	4.0	0.0	34.8	34.8
2098	1750.0	250.0	4.0	0.0	34.5	34.5
2099	1800.0	250.0	4.0	0.0	34.2	34.2
2100	1850.0	250.0	4.0	0.0	33.8	33.8
2101	1900.0	250.0	4.0	0.0	33.5	33.5
2102	1950.0	250.0	4.0	0.0	33.2	33.1
2103	2000.0	250.0	4.0	0.0	32.9	32.8
2104	2050.0	250.0	4.0	0.0	32.5	32.5
2105	2100.0	250.0	4.0	0.0	32.2	32.2
2106	2150.0	250.0	4.0	0.0	31.9	31.9
2107	-500.0	200.0	4.0	0.0	44.4	44.4

2108	-450.0	200.0	4.0	0.0	45.9	45.9
2109	-400.0	200.0	4.0	0.0	47.7	47.7
2110	-350.0	200.0	4.0	0.0	49.7	49.7
2111	-300.0	200.0	4.0	0.0	52.0	52.0
2112	-250.0	200.0	4.0	0.0	53.9	53.9
2113	-200.0	200.0	4.0	0.0	54.3	54.3
2114	-150.0	200.0	4.0	0.0	52.7	52.7
2115	-100.0	200.0	4.0	0.0	50.5	50.5
2116	-50.0	200.0	4.0	0.0	48.4	48.4
2117	0.0	200.0	4.0	0.0	46.6	46.5
2118	50.0	200.0	4.0	0.0	45.0	45.0
2119	100.0	200.0	4.0	0.0	43.8	43.7
2120	150.0	200.0	4.0	0.0	42.7	42.7
2121	200.0	200.0	4.0	0.0	41.8	41.7
2122	250.0	200.0	4.0	0.0	41.1	41.0
2123	300.0	200.0	4.0	0.0	40.5	40.3
2124	350.0	200.0	4.0	0.0	40.0	39.8
2125	400.0	200.0	4.0	0.0	39.5	39.4
2126	450.0	200.0	4.0	0.0	39.2	39.0
2127	500.0	200.0	4.0	0.0	38.9	38.7
2128	550.0	200.0	4.0	0.0	38.6	38.4
2129	600.0	200.0	4.0	0.0	38.3	38.1
2130	650.0	200.0	4.0	0.0	38.1	37.9
2131	700.0	200.0	4.0	0.0	37.9	37.7
2132	750.0	200.0	4.0	0.0	37.7	37.5
2133	800.0	200.0	4.0	0.0	37.5	37.3
2134	850.0	200.0	4.0	0.0	37.4	37.2
2135	900.0	200.0	4.0	0.0	37.3	37.0
2136	950.0	200.0	4.0	0.0	37.2	36.9
2137	1000.0	200.0	4.0	0.0	37.0	36.8
2138	1050.0	200.0	4.0	0.0	36.9	36.7
2139	1100.0	200.0	4.0	0.0	36.8	36.6
2140	1150.0	200.0	4.0	0.0	36.7	36.5
2141	1200.0	200.0	4.0	0.0	36.6	36.4
2142	1250.0	200.0	4.0	0.0	36.5	36.3
2143	1300.0	200.0	4.0	0.0	36.3	36.2
2144	1350.0	200.0	4.0	0.0	36.2	36.1
2145	1400.0	200.0	4.0	0.0	36.0	35.9
2146	1450.0	200.0	4.0	0.0	35.8	35.7
2147	1500.0	200.0	4.0	0.0	35.6	35.5
2148	1550.0	200.0	4.0	0.0	35.3	35.2
2149	1600.0	200.0	4.0	0.0	35.0	35.0
2150	1650.0	200.0	4.0	0.0	34.7	34.7
2151	1700.0	200.0	4.0	0.0	34.5	34.4
2152	1750.0	200.0	4.0	0.0	34.2	34.1

2153	1800.0	200.0	4.0	0.0	33.8	33.8
2154	1850.0	200.0	4.0	0.0	33.5	33.5
2155	1900.0	200.0	4.0	0.0	33.2	33.2
2156	1950.0	200.0	4.0	0.0	32.9	32.8
2157	2000.0	200.0	4.0	0.0	32.6	32.5
2158	2050.0	200.0	4.0	0.0	32.3	32.2
2159	2100.0	200.0	4.0	0.0	32.0	31.9
2160	2150.0	200.0	4.0	0.0	31.7	31.6
2161	-500.0	150.0	4.0	0.0	44.3	44.3
2162	-450.0	150.0	4.0	0.0	45.8	45.8
2163	-400.0	150.0	4.0	0.0	47.5	47.5
2164	-350.0	150.0	4.0	0.0	49.5	49.5
2165	-300.0	150.0	4.0	0.0	51.6	51.6
2166	-250.0	150.0	4.0	0.0	53.4	53.4
2167	-200.0	150.0	4.0	0.0	53.7	53.7
2168	-150.0	150.0	4.0	0.0	52.3	52.3
2169	-100.0	150.0	4.0	0.0	50.2	50.2
2170	-50.0	150.0	4.0	0.0	48.2	48.2
2171	0.0	150.0	4.0	0.0	46.4	46.4
2172	50.0	150.0	4.0	0.0	44.9	44.9
2173	100.0	150.0	4.0	0.0	43.7	43.6
2174	150.0	150.0	4.0	0.0	42.6	42.6
2175	200.0	150.0	4.0	0.0	41.7	41.6
2176	250.0	150.0	4.0	0.0	40.9	40.8
2177	300.0	150.0	4.0	0.0	40.3	40.2
2178	350.0	150.0	4.0	0.0	39.8	39.6
2179	400.0	150.0	4.0	0.0	39.3	39.1
2180	450.0	150.0	4.0	0.0	38.9	38.7
2181	500.0	150.0	4.0	0.0	38.6	38.4
2182	550.0	150.0	4.0	0.0	38.3	38.1
2183	600.0	150.0	4.0	0.0	38.0	37.8
2184	650.0	150.0	4.0	0.0	37.7	37.6
2185	700.0	150.0	4.0	0.0	37.5	37.3
2186	750.0	150.0	4.0	0.0	37.3	37.1
2187	800.0	150.0	4.0	0.0	37.2	37.0
2188	850.0	150.0	4.0	0.0	37.0	36.8
2189	900.0	150.0	4.0	0.0	36.9	36.7
2190	950.0	150.0	4.0	0.0	36.7	36.5
2191	1000.0	150.0	4.0	0.0	36.6	36.4
2192	1050.0	150.0	4.0	0.0	36.5	36.3
2193	1100.0	150.0	4.0	0.0	36.4	36.2
2194	1150.0	150.0	4.0	0.0	36.3	36.1
2195	1200.0	150.0	4.0	0.0	36.1	36.0
2196	1250.0	150.0	4.0	0.0	36.0	35.9
2197	1300.0	150.0	4.0	0.0	35.9	35.7

2198	1350.0	150.0	4.0	0.0	35.7	35.6
2199	1400.0	150.0	4.0	0.0	35.5	35.4
2200	1450.0	150.0	4.0	0.0	35.3	35.2
2201	1500.0	150.0	4.0	0.0	35.1	35.0
2202	1550.0	150.0	4.0	0.0	34.9	34.8
2203	1600.0	150.0	4.0	0.0	34.6	34.5
2204	1650.0	150.0	4.0	0.0	34.4	34.3
2205	1700.0	150.0	4.0	0.0	34.1	34.0
2206	1750.0	150.0	4.0	0.0	33.8	33.7
2207	1800.0	150.0	4.0	0.0	33.5	33.5
2208	1850.0	150.0	4.0	0.0	33.2	33.2
2209	1900.0	150.0	4.0	0.0	32.9	32.8
2210	1950.0	150.0	4.0	0.0	32.6	32.6
2211	2000.0	150.0	4.0	0.0	32.3	32.3
2212	2050.0	150.0	4.0	0.0	32.0	32.0
2213	2100.0	150.0	4.0	0.0	31.7	31.7
2214	2150.0	150.0	4.0	0.0	31.4	31.4
2215	-500.0	100.0	4.0	0.0	44.0	44.0
2216	-450.0	100.0	4.0	0.0	45.4	45.4
2217	-400.0	100.0	4.0	0.0	46.9	46.9
2218	-350.0	100.0	4.0	0.0	48.6	48.6
2219	-300.0	100.0	4.0	0.0	50.2	50.2
2220	-250.0	100.0	4.0	0.0	51.4	51.4
2221	-200.0	100.0	4.0	0.0	51.6	51.6
2222	-150.0	100.0	4.0	0.0	50.7	50.7
2223	-100.0	100.0	4.0	0.0	49.1	49.1
2224	-50.0	100.0	4.0	0.0	47.5	47.5
2225	0.0	100.0	4.0	0.0	45.9	45.9
2226	50.0	100.0	4.0	0.0	44.6	44.6
2227	100.0	100.0	4.0	0.0	43.4	43.4
2228	150.0	100.0	4.0	0.0	42.4	42.3
2229	200.0	100.0	4.0	0.0	41.5	41.4
2230	250.0	100.0	4.0	0.0	40.7	40.6
2231	300.0	100.0	4.0	0.0	40.1	40.0
2232	350.0	100.0	4.0	0.0	39.5	39.4
2233	400.0	100.0	4.0	0.0	39.0	38.9
2234	450.0	100.0	4.0	0.0	38.6	38.5
2235	500.0	100.0	4.0	0.0	38.3	38.1
2236	550.0	100.0	4.0	0.0	37.9	37.8
2237	600.0	100.0	4.0	0.0	37.7	37.5
2238	650.0	100.0	4.0	0.0	37.4	37.2
2239	700.0	100.0	4.0	0.0	37.2	37.0
2240	750.0	100.0	4.0	0.0	37.0	36.8
2241	800.0	100.0	4.0	0.0	36.8	36.6
2242	850.0	100.0	4.0	0.0	36.6	36.5

2243	900.0	100.0	4.0	0.0	36.5	36.3
2244	950.0	100.0	4.0	0.0	36.3	36.2
2245	1000.0	100.0	4.0	0.0	36.2	36.0
2246	1050.0	100.0	4.0	0.0	36.1	35.9
2247	1100.0	100.0	4.0	0.0	36.0	35.8
2248	1150.0	100.0	4.0	0.0	35.8	35.7
2249	1200.0	100.0	4.0	0.0	35.7	35.6
2250	1250.0	100.0	4.0	0.0	35.6	35.4
2251	1300.0	100.0	4.0	0.0	35.4	35.3
2252	1350.0	100.0	4.0	0.0	35.3	35.1
2253	1400.0	100.0	4.0	0.0	35.1	35.0
2254	1450.0	100.0	4.0	0.0	34.9	34.8
2255	1500.0	100.0	4.0	0.0	34.7	34.6
2256	1550.0	100.0	4.0	0.0	34.5	34.4
2257	1600.0	100.0	4.0	0.0	34.2	34.1
2258	1650.0	100.0	4.0	0.0	34.0	33.9
2259	1700.0	100.0	4.0	0.0	33.7	33.7
2260	1750.0	100.0	4.0	0.0	33.4	33.4
2261	1800.0	100.0	4.0	0.0	33.2	33.1
2262	1850.0	100.0	4.0	0.0	32.9	32.8
2263	1900.0	100.0	4.0	0.0	32.6	32.5
2264	1950.0	100.0	4.0	0.0	32.3	32.3
2265	2000.0	100.0	4.0	0.0	32.0	32.0
2266	2050.0	100.0	4.0	0.0	31.7	31.7
2267	2100.0	100.0	4.0	0.0	31.5	31.4
2268	2150.0	100.0	4.0	0.0	31.2	31.1
2269	-500.0	50.0	4.0	0.0	43.5	43.5
2270	-450.0	50.0	4.0	0.0	44.7	44.7
2271	-400.0	50.0	4.0	0.0	46.0	46.0
2272	-350.0	50.0	4.0	0.0	47.3	47.3
2273	-300.0	50.0	4.0	0.0	48.5	48.5
2274	-250.0	50.0	4.0	0.0	49.3	49.3
2275	-200.0	50.0	4.0	0.0	49.4	49.4
2276	-150.0	50.0	4.0	0.0	48.8	48.8
2277	-100.0	50.0	4.0	0.0	47.7	47.7
2278	-50.0	50.0	4.0	0.0	46.5	46.5
2279	0.0	50.0	4.0	0.0	45.2	45.2
2280	50.0	50.0	4.0	0.0	44.0	44.0
2281	100.0	50.0	4.0	0.0	43.0	42.9
2282	150.0	50.0	4.0	0.0	42.0	42.0
2283	200.0	50.0	4.0	0.0	41.2	41.1
2284	250.0	50.0	4.0	0.0	40.4	40.4
2285	300.0	50.0	4.0	0.0	39.8	39.7
2286	350.0	50.0	4.0	0.0	39.2	39.1
2287	400.0	50.0	4.0	0.0	38.8	38.7

2288	450.0	50.0	4.0	0.0	38.3	38.2
2289	500.0	50.0	4.0	0.0	38.0	37.8
2290	550.0	50.0	4.0	0.0	37.6	37.5
2291	600.0	50.0	4.0	0.0	37.4	37.2
2292	650.0	50.0	4.0	0.0	37.1	36.9
2293	700.0	50.0	4.0	0.0	36.9	36.7
2294	750.0	50.0	4.0	0.0	36.7	36.5
2295	800.0	50.0	4.0	0.0	36.5	36.3
2296	850.0	50.0	4.0	0.0	36.3	36.1
2297	900.0	50.0	4.0	0.0	36.1	36.0
2298	950.0	50.0	4.0	0.0	36.0	35.8
2299	1000.0	50.0	4.0	0.0	35.8	35.7
2300	1050.0	50.0	4.0	0.0	35.7	35.5
2301	1100.0	50.0	4.0	0.0	35.6	35.4
2302	1150.0	50.0	4.0	0.0	35.4	35.3
2303	1200.0	50.0	4.0	0.0	35.3	35.2
2304	1250.0	50.0	4.0	0.0	35.1	35.0
2305	1300.0	50.0	4.0	0.0	35.0	34.9
2306	1350.0	50.0	4.0	0.0	34.8	34.7
2307	1400.0	50.0	4.0	0.0	34.7	34.6
2308	1450.0	50.0	4.0	0.0	34.5	34.4
2309	1500.0	50.0	4.0	0.0	34.3	34.2
2310	1550.0	50.0	4.0	0.0	34.1	34.0
2311	1600.0	50.0	4.0	0.0	33.8	33.8
2312	1650.0	50.0	4.0	0.0	33.6	33.5
2313	1700.0	50.0	4.0	0.0	33.4	33.3
2314	1750.0	50.0	4.0	0.0	33.1	33.1
2315	1800.0	50.0	4.0	0.0	32.8	32.8
2316	1850.0	50.0	4.0	0.0	32.5	32.5
2317	1900.0	50.0	4.0	0.0	32.3	32.2
2318	1950.0	50.0	4.0	0.0	32.0	32.0
2319	2000.0	50.0	4.0	0.0	31.7	31.7
2320	2050.0	50.0	4.0	0.0	31.5	31.4
2321	2100.0	50.0	4.0	0.0	31.2	31.2
2322	2150.0	50.0	4.0	0.0	30.9	30.9
2323	-500.0	0.0	4.0	0.0	42.8	42.8
2324	-450.0	0.0	4.0	0.0	43.9	43.9
2325	-400.0	0.0	4.0	0.0	44.9	44.9
2326	-350.0	0.0	4.0	0.0	45.9	45.9
2327	-300.0	0.0	4.0	0.0	46.8	46.8
2328	-250.0	0.0	4.0	0.0	47.3	47.3
2329	-200.0	0.0	4.0	0.0	47.4	47.4
2330	-150.0	0.0	4.0	0.0	47.0	47.0
2331	-100.0	0.0	4.0	0.0	46.3	46.3
2332	-50.0	0.0	4.0	0.0	45.3	45.3

2333	0.0	0.0	4.0	0.0	44.3	44.3
2334	50.0	0.0	4.0	0.0	43.3	43.3
2335	100.0	0.0	4.0	0.0	42.4	42.4
2336	150.0	0.0	4.0	0.0	41.6	41.5
2337	200.0	0.0	4.0	0.0	40.8	40.7
2338	250.0	0.0	4.0	0.0	40.1	40.0
2339	300.0	0.0	4.0	0.0	39.5	39.4
2340	350.0	0.0	4.0	0.0	38.9	38.9
2341	400.0	0.0	4.0	0.0	38.5	38.4
2342	450.0	0.0	4.0	0.0	38.0	37.9
2343	500.0	0.0	4.0	0.0	37.7	37.6
2344	550.0	0.0	4.0	0.0	37.3	37.2
2345	600.0	0.0	4.0	0.0	37.0	36.9
2346	650.0	0.0	4.0	0.0	36.8	36.6
2347	700.0	0.0	4.0	0.0	36.5	36.4
2348	750.0	0.0	4.0	0.0	36.3	36.2
2349	800.0	0.0	4.0	0.0	36.1	36.0
2350	850.0	0.0	4.0	0.0	36.0	35.8
2351	900.0	0.0	4.0	0.0	35.8	35.6
2352	950.0	0.0	4.0	0.0	35.6	35.5
2353	1000.0	0.0	4.0	0.0	35.5	35.3
2354	1050.0	0.0	4.0	0.0	35.3	35.2
2355	1100.0	0.0	4.0	0.0	35.2	35.1
2356	1150.0	0.0	4.0	0.0	35.1	34.9
2357	1200.0	0.0	4.0	0.0	34.9	34.8
2358	1250.0	0.0	4.0	0.0	34.8	34.6
2359	1300.0	0.0	4.0	0.0	34.6	34.5
2360	1350.0	0.0	4.0	0.0	34.4	34.3
2361	1400.0	0.0	4.0	0.0	34.3	34.2
2362	1450.0	0.0	4.0	0.0	34.1	34.0
2363	1500.0	0.0	4.0	0.0	33.9	33.8
2364	1550.0	0.0	4.0	0.0	33.7	33.6
2365	1600.0	0.0	4.0	0.0	33.5	33.4
2366	1650.0	0.0	4.0	0.0	33.3	33.2
2367	1700.0	0.0	4.0	0.0	33.0	33.0
2368	1750.0	0.0	4.0	0.0	32.8	32.7
2369	1800.0	0.0	4.0	0.0	32.5	32.5
2370	1850.0	0.0	4.0	0.0	32.2	32.2
2371	1900.0	0.0	4.0	0.0	32.0	31.9
2372	1950.0	0.0	4.0	0.0	31.7	31.7
2373	2000.0	0.0	4.0	0.0	31.5	31.4
2374	2050.0	0.0	4.0	0.0	31.2	31.2
2375	2100.0	0.0	4.0	0.0	31.0	30.9
2376	2150.0	0.0	4.0	0.0	30.7	30.7

Pora dnia - przedział czasu odniesienia równy 8 najmniej korzystnym godzinom dnia

kolejno po sobie następującym

Pora nocy - przedział czasu odniesienia równy 1 najmniej korzystnej godzinie nocy

Tłumienie przez grunt wg wzoru 9 PN-ISO 9613.

Koniec obliczeń

6. Porównanie analiz akustycznych.

Tabela 10. Porównanie analizy akustycznej nr 1 oraz nr 2.

Punt kontrolny pora nocy	Analiza nr 1	Analiza nr 2
P1	38.9	39.3
P2	39.0	39.4
P3	39.7	40.0
P4	39.7	40.0
P5	37.4	37.6
P6	36.6	36.8
P7	37.5	37.6
P8	36.5	36.7
P9	43.1	43.2
P10	43.0	43.1
P11	41.1	41.2
P12	41.2	41.3
P13	42.3	41.3
P14	42.0	42.1
P15	41.6	41.6
P16	40.4	40.5
P17	40.8	40.8
P18	42.0	42.0
P19	42.6	42.6
P20	42.6	42.6
P21	34.5	34.6
P22	34.1	34.2
P23	34.2	34.2
P24	36.7	36.7
P25	36.2	36.2

P26	35.6	35.6
P27	36.7	36.7
P28	36.3	36.3

7. Wnioski końcowe

1. Realizacja przedmiotowych farm fotowoltaicznych, w najgorszym wariancie tj. realizacji do 20 stacji trafo, do 40 magazynów energii oraz 273 inwerterów nieistotnie wpłynie na zmianę panujących warunków, determinowanych przez istniejące elektrownie wiatrowe oraz planowane farmy fotowoltaiczne, dla których uzyskano decyzje o środowiskowych uwarunkowaniach.
2. Realizacja inwestycji przy zastosowaniu środków ograniczających, nie spowoduje niedotrzymania przyjętych standardów hałasu dla najbliższej zabudowy zagrodowej oraz jednorodzinnej.