

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: NOVUM PROJEKT Norbert Piróg
ul. Planetarna 21C/4, Żalasewo 62-020 Swarzędz
Licencja nr NP/62020/Spd/21 z dnia 14.05.2021

DANE WEJŚCIOWE

Rodzaj obliczeń: Poziom hałasu równoważnego

1. Nazwa projektu: Bez nazwy
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 porowaty, wskaźnik gruntu G = 1
6. Punktowe źródła hałasu

Lp	Symbol	Współrzędne źródła			z	ht	Rodzaj źródła	LAW	tD	tN	Do
		x	y								
		m	m	m	m	m		dB(A)	h	h	dB
1	ZP 1	265.3	391.1	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
2	ZP 2	267.4	366.6	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
3	ZP 3	262.7	342.6	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
4	ZP 4	319.6	334.7	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
5	ZP 5	322.2	368.1	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
6	ZP 6	345.2	346.7	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
7	ZP 7	368.1	337.3	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
8	ZP 8	391.6	325.8	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
9	ZP 9	413.0	315.4	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
10	ZP 10	436.5	305.5	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
11	ZP 11	470.0	301.3	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
12	ZP 12	491.9	295.0	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
13	ZP 13	515.9	289.8	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
14	ZP 14	539.4	284.6	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
15	ZP 15	571.8	278.3	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
16	ZP 16	557.7	227.2	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
17	ZP 17	529.5	232.4	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
18	ZP 18	506.5	237.1	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
19	ZP 19	483.5	241.8	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
20	ZP 20	459.0	245.9	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3

7. Liniowe źródła hałasu

Lp	Symbol	Początek				Koniec				LAW 8hD	LAW 1hN	D0
		x1	y1	z1	h1t	x2	y2	z2	h2t			
		m	m	m	m	m	m	m	m	dB	dB	dB
1	T1	570.7	251.7	0.0	0.0	515.4	263.7	0.0	0.0	69.5	69.8	
2	T2	515.4	263.7	0.0	0.0	459.0	274.7	0.0	0.0	70.2	69.9	
3	T3	297.1	388.5	0.0	0.0	289.3	338.9	0.0	0.0	69.9	67.5	
4	T4	344.6	369.2	0.0	0.0	343.1	366.1	0.0	0.0	64.2	58.0	
5	T5	369.2	358.7	0.0	0.0	368.7	354.0	0.0	0.0	64.3	58.1	
6	T6	392.2	347.8	0.0	0.0	391.6	344.6	0.0	0.0	64.2	58.0	
7	T7	416.2	337.3	0.0	0.0	415.1	335.2	0.0	0.0	64.1	58.0	
8	T8	437.1	327.9	0.0	0.0	436.5	324.3	0.0	0.0	64.2	58.1	

z - wysokość źródła nad gruntem ; ht - wysokość gruntu względem płaszczyzny odniesienia
LAW - poziom mocy akustycznej źródła nominalny
tD - czas pracy źródła w przedziale 8 kolejnych najmniej korzystnych godzin dnia
tN - czas pracy źródła w przedziale 1 najmniej korzystnej godziny nocy

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

8. Ekrany - budynki

Lp	Symbol	Wia	Współrzędne x,y wierzchołków ekranu[m]								ho	h1	ht	Współczynniki		
		ta	x1	y1	x2	y2	x3	y3	x4	y4	m	m	m	od	bia	scian
		(W)												nr	1 -	4
1	EK-B 1	280.9	381.2	282.5	393.2	268.4	396.3	266.3	385.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
2	EK-B 2	281.5	357.2	283.5	369.2	270.5	372.3	267.9	361.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
3	EK-B 3	277.8	334.7	279.9	347.3	266.3	349.9	263.7	337.3	0.0	9.0	0.0	0.8	0.8	0.8	0.8
4	EK-B 4	316.4	329.5	317.5	341.5	303.4	344.6	300.8	333.2	0.0	9.0	0.0	0.8	0.8	0.8	0.8
5	EK-B 5	319.1	364.0	321.1	376.0	306.5	378.6	304.4	367.1	0.0	9.0	0.0	0.8	0.8	0.8	0.8
6	EK-B 6	351.4	348.3	352.5	360.8	342.0	362.9	339.4	348.8	0.0	9.0	0.0	0.8	0.8	0.8	0.8
7	EK-B 7	376.0	336.8	378.1	349.3	366.1	352.0	364.5	340.5	0.0	9.0	0.0	0.8	0.8	0.8	0.8
8	EK-B 8	399.5	326.4	400.5	338.9	389.6	342.6	387.5	329.5	0.0	9.0	0.0	0.8	0.8	0.8	0.8
9	EK-B 9	421.9	315.4	424.5	329.5	413.0	332.1	409.9	318.0	0.0	9.0	0.0	0.8	0.8	0.8	0.8
10	EK-B 10	444.9	306.5	446.5	319.1	433.9	321.1	431.8	308.6	0.0	9.0	0.0	0.8	0.8	0.8	0.8
11	EK-B 11	562.9	228.7	565.5	242.3	553.5	244.4	550.4	230.3	0.0	9.0	0.0	0.8	0.8	0.8	0.8
12	EK-B 12	538.9	233.4	541.5	246.5	529.5	250.1	527.9	235.5	0.0	9.0	0.0	0.8	0.8	0.8	0.8
13	EK-B 13	515.9	238.1	518.5	251.2	506.5	253.3	503.9	239.7	0.0	9.0	0.0	0.8	0.8	0.8	0.8
14	EK-B 14	492.4	242.8	495.6	255.9	483.5	258.5	480.9	244.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
15	EK-B 15	468.9	243.9	471.0	259.5	459.0	261.6	456.9	248.0	0.0	9.0	0.0	0.8	0.8	0.8	0.8
16	EK-B 16	569.7	263.2	571.3	276.8	561.4	278.3	558.2	265.3	0.0	9.0	0.0	0.8	0.8	0.8	0.8
17	EK-B 17	544.1	267.9	546.7	280.9	534.7	283.5	532.6	270.0	0.0	9.0	0.0	0.8	0.8	0.8	0.8
18	EK-B 18	521.7	273.1	523.8	286.2	510.7	288.2	509.1	274.7	0.0	9.0	0.0	0.8	0.8	0.8	0.8
19	EK-B 19	497.6	277.3	499.7	290.9	488.2	292.9	486.2	279.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
20	EK-B 20	474.7	283.5	476.8	297.6	464.7	299.7	462.7	286.7	0.0	9.0	0.0	0.8	0.8	0.8	0.8

Koniec danych

L_{Aeq} , dzień

0	10	20	30	40
50	60	70	80	90
100	110	120	130	140

	150	160	170	180	190
	200	210	220	230	240
	250	260	270	280	290
	300	310	320	330	340
	350	360	370	380	390
	400	410	420	430	440
	450	460	470	480	490
	500	510	520	530	540
	550	560	570	580	590
	600	610	620	630	640
	650	660	670	680	690
	700	710	720	730	740
	750	760	770	780	790
	800	810	820	830	840
-----+-----+-----+-----+-----					
630	10.2	10.3	10.5	10.7	10.9
	11.1	11.2	11.4	11.6	12.0
	12.2	12.4	12.8	12.9	13.0
	13.4	14.0	14.2	14.4	14.5
	14.8	14.8	14.8	14.9	14.8
	14.6	14.0	14.1	13.6	14.0
	14.0	13.8	14.1	14.2	14.5
	14.6	14.6	14.9	14.9	15.0
	15.0	15.0	14.3	14.3	14.3
	14.6	14.6	14.8	14.8	14.8
	14.7	14.7	14.7	14.6	14.6
	14.5	14.3	13.7	13.7	13.6
	13.5	13.2	13.1	13.0	12.9
	12.8	12.7	12.6	12.4	12.3
	11.9	11.8	11.7	11.6	11.5
	11.3	10.9	10.7	10.6	10.1
	9.5	9.3	8.6	8.5	7.7
620	10.3	10.5	10.7	10.9	11.1
	11.3	11.5	11.6	12.1	12.3
	12.4	12.8	13.0	13.2	13.5
	13.9	14.3	14.6	14.7	14.8
	15.0	15.2	15.3	15.2	15.2
	14.9	14.7	14.3	14.0	13.7
	14.2	14.1	14.5	14.5	14.8
	14.8	14.9	15.2	15.2	15.2
	15.3	14.9	14.6	14.6	14.4
	14.9	14.8	15.1	15.1	15.1
	15.0	15.0	14.9	14.9	14.8
	14.6	14.4	14.0	13.9	13.8
	13.5	13.4	13.3	13.2	13.1
	13.0	12.9	12.8	12.7	12.5
	12.2	12.0	11.9	11.8	11.6
	11.5	11.0	10.9	10.8	10.6
	10.1	9.5	9.4	8.7	8.5
610	10.5	10.7	10.9	11.1	11.3
	11.5	11.7	11.9	12.3	12.5
	12.9	13.1	13.3	13.6	13.8
	14.0	14.4	14.9	15.0	15.1
	15.5	15.6	15.6	15.6	15.5
	15.2	14.9	14.8	14.3	14.0
	14.5	14.4	14.8	14.8	15.1
	15.1	15.1	15.5	15.5	15.2
	15.5	14.9	14.9	14.9	15.1
	15.1	15.4	15.4	15.4	15.3
	15.3	15.2	15.2	15.1	14.9
	14.7	14.6	14.3	14.2	13.8
	13.8	13.7	13.6	13.5	13.3
	13.2	13.1	13.0	12.9	12.7
	12.6	12.2	12.1	12.0	11.8
	11.7	11.5	11.1	10.9	10.8
	10.7	10.1	9.5	9.4	8.7
600	10.7	10.9	11.1	11.3	11.5
	11.7	11.9	12.1	12.6	13.0
	13.2	13.4	13.7	13.9	14.1
	14.4	14.6	14.9	15.3	15.7
	15.8	15.9	15.9	16.1	15.4
	15.8	15.4	15.0	14.7	14.3
	14.8	14.7	14.9	15.3	15.4
	15.4	15.6	15.8	15.8	15.8
	15.5	15.1	15.1	15.1	15.4
	15.4	15.7	15.7	15.6	15.6
	15.6	15.5	15.5	15.3	15.2
	15.0	14.9	14.5	14.2	14.1
	14.0	13.9	13.8	13.7	13.6
	13.5	13.3	13.2	13.1	13.0
	12.8	12.7	12.3	12.2	12.0
	11.9	11.7	11.6	11.1	11.0
	10.8	10.7	10.1	9.5	9.4
590	10.9	11.1	11.3	11.5	12.0
	11.9	12.1	12.3	12.5	13.0
	13.4	13.6	14.0	14.2	14.5
	14.7	14.9	15.0	15.9	16.0
	16.2	16.4	16.2	16.3	15.8
	16.3	15.7	15.7	15.0	14.5
	15.1	15.0	15.2	15.6	15.7
	15.7	16.1	16.1	16.1	15.8
	15.8	15.4	15.4	15.8	15.7
	16.0	16.0	16.0	15.9	15.9
	15.8	15.8	15.7	15.5	15.3
	15.3	15.2	14.5	14.5	14.4
	14.3	14.2	14.1	13.9	13.8
	13.7	13.6	13.4	13.3	13.2
	13.0	12.9	12.5	12.4	12.2
	12.1	11.9	11.8	11.3	11.1
	11.0	10.8	10.3	10.1	9.5
580	11.0	11.2	11.5	11.7	11.9
	12.4	12.3	12.6	13.0	13.2
	13.4	14.1	14.3	14.5	14.8
	15.0	15.2	15.6	15.8	16.3
	16.6	16.7	16.6	16.6	16.0
	16.6	16.0	16.0	15.5	14.8
	15.4	15.3	15.5	16.0	16.0
	16.0	16.4	16.4	16.4	16.1
	15.7	15.7	15.7	16.0	16.0
	16.3	16.3	16.3	16.2	16.2
	16.1	16.1	15.9	15.8	15.6
	15.5	15.4	14.8	14.7	14.6
	14.5	14.4	14.3	14.2	14.1
	13.9	13.8	13.7	13.5	13.4
	13.2	13.1	12.9	12.6	12.4
	12.2	12.1	11.9	11.8	11.3
	11.1	11.0	10.8	10.3	10.1
570	11.2	11.4	11.7	11.9	12.1
	12.3	12.6	13.0	13.3	13.5
	13.9	14.1	14.5	14.9	15.1
	15.3	15.6	15.9	16.1	16.4

		16.9	17.1	17.2	17.1	17.2
		16.9	16.3	16.3	15.8	15.1
		15.7	15.9	15.9	16.3	16.3
		16.4	16.7	16.7	16.4	16.4
		16.0	16.0	16.5	16.3	16.6
		16.6	16.6	16.6	16.5	16.5
		16.4	16.2	16.1	16.0	15.9
		15.7	15.5	15.1	15.0	14.9
		14.8	14.7	14.6	14.5	14.3
		14.2	14.1	13.9	13.8	13.6
		13.5	13.3	13.1	12.8	12.6
		12.4	12.3	12.1	11.9	11.5
		11.3	11.1	11.0	10.8	10.3
560		11.4	11.6	11.8	12.1	12.3
		12.6	12.8	13.3	13.8	13.9
		14.2	14.4	14.8	15.0	15.4
		15.6	16.1	16.3	16.6	16.8
		17.2	17.5	17.7	17.5	17.6
		16.9	16.6	16.7	16.1	15.4
		16.0	16.2	16.2	16.6	16.7
		16.8	17.0	17.1	16.7	16.7
		16.3	16.3	16.8	16.7	17.0
		16.9	16.9	16.9	16.8	16.8
		16.6	16.5	16.3	16.3	16.1
		15.9	15.8	15.4	15.3	15.2
		15.1	15.0	14.9	14.7	14.6
		14.4	14.3	14.2	14.0	13.8
		13.7	13.5	13.3	13.2	12.8
		12.6	12.5	12.3	12.1	11.7
		11.5	11.3	11.1	11.0	10.8
550		11.5	11.8	12.0	12.3	12.5
		12.8	13.2	13.5	13.7	14.2
		14.4	14.7	15.1	15.3	15.5
		16.2	16.4	16.6	16.8	17.1
		17.3	17.8	18.1	17.9	18.0
		17.3	16.8	17.0	16.8	15.9
		16.4	16.4	16.6	17.0	17.0
		17.2	17.4	17.0	17.0	16.6
		16.6	17.1	17.0	17.3	17.3
		17.3	17.2	17.2	17.2	17.0
		16.9	16.8	16.7	16.5	16.4
		16.2	16.1	15.7	15.6	15.5
		15.4	15.3	15.1	15.0	14.9
		14.7	14.6	14.4	14.2	14.1
		13.9	13.7	13.6	13.4	13.0
		12.8	12.6	12.5	12.3	12.1
		11.6	11.5	11.3	11.1	10.9
540		11.7	11.9	12.2	12.5	12.7
		13.0	13.4	13.7	14.2	14.4
		14.7	15.1	15.4	15.6	15.9
		16.3	16.8	17.0	17.2	17.4
		17.7	18.0	18.4	18.4	18.4
		17.8	17.2	17.2	17.1	16.2
		16.0	16.8	17.0	17.4	17.4
		17.8	17.3	16.9	17.3	16.9
		16.9	17.4	17.3	17.7	17.6
		17.6	17.6	17.5	17.5	17.3
		17.2	17.0	16.9	16.8	16.6
		16.6	16.5	16.0	15.9	15.8
		15.7	15.6	15.4	15.3	15.1
		15.0	14.8	14.6	14.5	14.3
		14.1	13.9	13.8	13.6	13.4
		13.0	13.1	12.6	12.5	12.3
		11.8	11.6	11.4	11.3	11.1
530		11.8	12.1	12.4	12.6	12.9
		13.2	13.7	13.9	14.4	14.7
		15.1	15.4	15.9	15.9	16.3
		16.6	17.0	17.2	17.6	17.9
		18.2	18.4	18.9	19.0	18.9
		18.2	17.7	17.7	17.3	16.7
		16.4	17.2	17.4	17.8	17.8
		18.2	17.6	17.7	17.2	17.2
		17.8	17.8	18.0	18.0	18.0
		18.0	17.9	17.9	17.7	17.6
		17.4	17.3	17.2	17.0	17.0
		16.9	16.8	16.4	16.3	16.1
		16.0	15.9	15.7	15.6	15.4
		15.2	15.1	14.9	14.7	14.5
		14.3	14.2	14.0	13.8	13.6
		13.4	13.0	12.8	12.6	12.4
		12.2	11.8	11.6	11.4	11.2
520		12.0	12.3	12.5	12.8	13.1
		13.4	13.7	14.3	14.6	14.9
		15.3	15.6	15.9	16.3	16.6
		16.9	17.2	17.5	18.0	18.4
		18.6	18.9	19.1	19.5	19.4
		18.7	17.8	18.1	17.7	17.4
		17.1	17.7	17.8	18.2	18.2
		18.0	18.0	18.1	17.6	17.6
		18.2	18.1	18.4	18.4	18.4
		18.3	18.3	18.1	18.0	17.9
		17.7	17.6	17.5	17.4	17.3
		17.2	17.2	16.7	16.6	16.5
		16.3	16.2	16.0	15.9	15.7
		15.5	15.3	15.1	15.0	14.8
		14.6	14.4	14.2	14.2	13.8
		13.4	13.2	13.2	13.0	12.6
		12.4	11.9	11.8	11.6	11.4
510		13.4	12.9	12.7	13.0	13.3
		13.6	13.9	14.4	14.7	15.3
		15.6	15.9	16.2	16.7	17.0
		17.5	17.6	17.9	18.3	18.8
		19.1	19.4	19.6	19.8	19.9
		20.1	18.3	18.6	18.2	17.9
		17.3	18.2	18.3	18.7	18.1
		18.4	18.4	18.4	17.9	18.6
		18.6	18.8	18.8	18.8	18.7
		18.7	18.5	18.4	18.3	18.1
		18.0	17.9	17.8	17.8	17.7
		17.6	17.5	17.1	16.9	16.8
		16.7	16.5	16.3	16.2	16.0
		15.8	15.6	15.4	15.2	15.0
		14.8	14.8	14.4	14.2	14.0
		14.0	13.6	13.4	13.2	13.0
		12.6	12.1	11.9	11.7	11.5
500		13.6	13.8	14.0	13.6	13.7
		13.8	14.3	14.6	14.9	15.4
		15.8	16.2	16.6	17.0	17.3
		17.7	18.1	18.4	18.8	19.1
		19.5	19.9	20.2	20.4	20.6
		20.6	18.8	19.2	18.7	18.5

	17.8	18.5	18.8	19.2	18.6
	18.8	18.9	18.3	18.3	19.1
	18.9	19.2	19.2	19.2	19.1
	18.9	18.8	18.7	18.6	18.4
	18.4	18.3	18.2	18.2	18.1
	18.0	17.9	17.4	17.3	17.1
	17.0	16.8	16.7	16.5	16.3
	16.1	15.9	15.7	15.5	15.3
	15.0	14.8	14.8	14.6	14.4
	14.2	13.8	13.6	13.1	12.9
	12.7	12.3	12.1	11.8	11.6
490	14.0	13.9	14.2	14.5	14.7
	14.5	14.5	14.8	15.3	15.6
	16.0	16.3	16.9	17.3	17.7
	18.1	18.4	18.9	19.3	19.7
	20.0	20.4	20.8	21.1	21.4
	21.3	19.4	19.7	19.3	19.0
	19.0	19.2	19.4	19.1	19.0
	19.2	19.3	18.8	19.6	19.5
	19.7	19.7	19.6	19.6	19.5
	19.3	19.2	19.0	18.9	18.8
	18.7	18.7	18.6	18.6	18.5
	18.4	18.3	17.8	17.7	17.5
	17.3	17.2	17.0	16.8	16.6
	16.4	16.2	15.9	15.9	15.5
	15.5	15.3	15.0	14.8	14.6
	14.2	13.8	13.5	13.3	13.1
	12.9	12.7	12.2	12.0	11.8
480	14.2	14.5	14.7	14.9	15.1
	15.4	15.5	15.5	15.7	15.8
	16.2	16.7	17.1	17.6	18.0
	18.4	18.9	19.3	19.8	20.3
	20.6	21.0	21.4	21.8	22.2
	22.1	20.2	20.4	19.9	19.9
	19.5	19.9	19.9	19.5	19.8
	19.7	19.8	19.3	20.0	19.8
	20.2	20.1	20.0	20.0	19.7
	19.6	19.4	19.3	19.3	19.2
	19.2	19.1	19.1	19.0	18.9
	18.8	18.7	18.2	18.1	17.9
	17.7	17.5	17.3	17.1	17.0
	16.8	16.8	16.4	16.2	15.9
	15.7	15.5	15.2	15.0	14.7
	14.3	14.1	13.7	13.5	13.2
470	13.0	12.8	12.3	12.1	12.2
	14.0	14.7	14.8	15.2	15.5
	15.7	16.0	16.3	16.5	16.5
	16.7	17.0	17.4	17.8	18.2
	18.8	19.3	19.8	20.3	20.8
	21.3	21.7	22.2	22.7	23.0
	23.0	21.6	20.9	20.6	20.5
	20.3	20.7	19.6	20.0	20.4
	20.8	19.9	20.7	20.5	20.7
	20.6	20.6	20.5	20.2	20.1
	19.9	19.8	19.7	19.7	19.6
	19.6	19.6	19.5	19.5	19.4
	19.3	19.1	18.6	18.5	18.3
	18.1	18.0	17.8	17.5	17.5
	17.2	16.9	16.7	16.4	16.1
	15.9	15.8	15.4	15.2	14.8
	14.5	14.3	14.1	13.8	13.4
460	13.2	13.2	12.8	12.5	12.3
	14.0	14.3	14.8	15.2	15.5
	15.9	16.2	16.5	16.9	17.2
	17.6	17.6	18.1	18.3	18.6
	19.1	19.7	20.2	20.8	21.4
	21.9	22.5	23.1	23.6	24.0
	24.1	22.9	21.9	21.6	21.4
	21.1	19.7	20.2	20.6	20.9
	21.2	20.5	21.3	21.5	21.3
	21.2	21.0	20.7	20.6	20.3
	20.3	20.2	20.1	20.1	20.1
	20.1	20.1	20.0	19.9	19.8
	19.7	19.6	19.1	19.0	18.8
	18.6	18.4	18.1	18.2	17.7
	17.5	17.2	16.9	16.8	16.5
	16.1	15.7	15.5	15.2	15.1
	14.9	14.5	14.0	13.8	13.8
450	13.6	13.3	12.9	12.7	12.4
	14.6	14.9	15.1	15.0	15.5
	15.8	16.1	16.6	17.2	17.4
	17.9	18.2	18.8	19.0	19.3
	19.7	20.1	20.7	21.3	21.9
	22.6	23.3	24.0	24.7	25.2
	25.6	24.2	22.8	22.7	22.4
	22.0	20.1	21.0	21.5	21.8
	21.8	22.3	22.0	22.1	21.9
	21.7	21.6	21.2	20.8	20.7
	20.7	20.6	20.6	20.6	20.6
	20.6	20.6	20.5	20.4	20.4
	20.3	20.1	19.6	19.4	19.2
	19.1	19.0	18.6	18.3	18.1
	17.9	17.6	17.3	16.9	16.5
	16.2	16.1	15.9	15.4	15.2
	14.9	14.9	14.5	14.2	14.0
440	13.7	13.5	13.2	12.8	12.6
	14.2	14.7	15.3	15.6	15.7
	15.9	16.2	16.6	16.9	17.5
	18.1	18.6	19.1	19.5	20.0
	20.4	20.8	21.3	21.8	22.5
	23.3	24.1	24.9	25.7	26.5
	27.1	27.1	24.4	24.0	23.7
	20.8	20.7	21.7	22.4	22.7
	22.1	23.0	23.2	22.9	22.6
	22.3	21.8	21.5	21.3	21.2
	21.1	21.1	21.1	21.2	21.2
	21.2	21.2	21.1	21.0	20.9
	20.8	20.7	20.1	20.0	20.0
	19.6	19.2	19.0	18.7	18.4
	18.1	17.7	17.4	17.2	16.9
	16.5	16.2	15.9	15.6	15.6
	15.3	15.0	14.6	14.4	14.1
430	13.8	13.6	13.4	12.9	12.7
	14.6	14.8	15.1	15.3	15.9
	16.3	16.8	16.9	17.1	17.5
	17.9	18.4	19.1	19.7	20.3
	20.8	21.5	22.0	22.5	23.3
	24.0	25.0	25.9	27.0	28.0
	28.9	29.2	26.2	25.4	22.5
	21.1	21.4	23.4	23.6	24.2
	24.4	23.9	23.9	23.6	23.3

	22.7	22.2	22.0	21.9	21.8
	21.8	21.7	21.8	21.8	21.8
	21.8	21.8	21.7	21.7	21.6
	21.5	21.3	20.8	20.6	20.3
	20.0	19.7	19.4	19.0	18.7
	18.4	18.1	17.7	17.4	17.0
	16.7	16.4	16.3	16.0	15.8
	15.5	15.2	14.8	14.5	14.2
	14.0	13.7	13.5	13.0	12.8
420	14.9	15.2	15.1	15.6	15.9
	16.4	16.6	17.0	17.7	18.1
	18.3	18.5	19.0	19.5	20.2
	21.0	21.9	22.6	23.2	24.0
	24.8	25.8	27.0	28.3	29.6
	31.0	31.8	28.9	27.9	22.6
	21.7	21.9	24.9	25.1	24.5
	25.5	25.4	24.8	24.4	23.7
	23.1	22.7	22.5	22.5	22.4
	22.4	22.4	22.4	22.5	22.5
	22.5	22.5	22.4	22.4	22.3
	22.1	22.0	21.3	21.1	20.7
	20.4	20.1	19.7	19.6	19.1
	18.6	18.3	18.0	17.6	17.5
	17.2	16.9	16.5	16.2	15.9
	15.6	15.3	15.1	14.8	14.4
	14.1	13.8	13.6	13.1	12.9
410	15.0	15.3	15.4	15.7	16.3
	16.5	16.8	17.2	17.7	18.1
	18.6	19.2	19.5	19.8	20.3
	20.9	21.7	22.6	23.7	24.7
	25.6	26.7	28.0	29.5	31.4
	33.5	35.3	32.7	25.9	23.2
	23.4	23.4	26.6	26.8	27.6
	26.9	26.5	25.7	24.8	24.0
	23.6	23.3	23.2	23.1	23.2
	23.1	23.2	23.2	23.2	23.3
	23.3	23.3	23.2	23.0	23.1
	22.7	22.5	21.8	21.5	21.2
	21.0	20.5	20.1	19.7	19.4
	19.0	18.6	18.5	18.1	17.8
	17.4	17.1	16.7	16.4	16.1
	15.8	15.5	15.3	14.8	14.5
400	14.2	14.0	13.7	13.5	13.2
	14.9	15.4	15.7	16.1	16.3
	16.7	17.0	17.2	17.9	18.3
	18.8	19.3	19.8	20.5	21.0
	21.4	21.9	22.8	23.7	24.8
	26.1	27.5	29.0	30.8	33.0
	36.2	40.6	38.8	24.3	26.5
	26.9	25.5	29.0	29.6	29.6
	28.8	27.7	26.7	25.2	24.4
	24.2	24.0	23.9	23.8	23.8
	23.9	24.0	24.0	24.2	24.1
	24.1	24.0	23.9	23.7	23.6
	23.3	23.1	22.5	22.1	21.7
	21.3	20.9	20.5	20.2	19.7
	19.5	19.1	18.8	18.4	18.0
	17.6	17.3	16.9	16.6	16.3
	16.1	15.6	15.3	14.9	14.8
	14.5	14.3	14.0	13.5	13.3
390	15.2	15.5	15.8	16.1	16.4
	17.0	17.4	17.9	18.0	18.5
	19.0	19.4	19.9	20.5	21.1
	21.8	22.7	23.3	24.1	25.1
	26.3	27.7	29.5	31.5	34.1
	37.8	45.3	-1.0	-1.0	31.8
	33.7	27.6	32.2	33.9	32.0
	30.6	29.0	27.2	26.0	25.1
	24.8	24.7	24.6	24.6	24.7
	24.8	24.9	25.0	25.0	25.0
	24.9	24.8	24.7	24.5	24.3
	24.1	23.8	23.1	22.7	22.3
	21.9	21.5	21.2	20.8	20.3
	19.9	19.5	19.1	18.7	18.3
	17.9	17.5	17.1	16.8	16.6
	16.3	16.0	15.7	15.2	14.9
380	14.6	14.4	14.1	13.6	13.4
	15.3	15.9	16.5	16.7	17.0
	17.2	17.4	17.8	18.4	18.8
	19.2	19.8	20.2	20.7	21.4
	22.1	22.8	23.6	24.6	25.8
	26.8	28.2	29.8	31.9	34.4
	37.6	41.3	39.6	29.7	35.2
	36.6	27.5	32.2	38.0	35.1
	32.9	30.0	28.4	27.1	26.2
	25.7	25.5	25.6	25.7	25.7
	25.8	25.8	25.9	25.9	26.0
	25.8	25.8	25.6	25.4	25.2
	24.9	24.6	23.8	23.4	22.9
	22.6	22.1	21.7	21.2	20.7
	20.3	19.8	19.3	18.9	18.5
	18.1	17.9	17.6	17.2	16.8
	16.4	16.1	15.8	15.3	15.0
370	14.7	14.5	14.2	13.7	13.5
	15.0	15.4	15.7	16.3	16.6
	16.9	17.4	17.9	18.6	18.9
	19.2	19.7	20.4	21.0	21.6
	22.3	23.0	23.7	24.7	26.0
	27.2	28.6	30.3	32.3	34.6
	37.8	42.9	-1.0	-1.0	37.1
	36.0	-1.0	-1.0	42.3	39.1
	36.2	31.6	30.8	29.0	27.6
	27.3	27.0	26.5	26.5	26.5
	26.5	26.6	26.8	26.9	27.0
	26.9	26.8	26.6	26.4	26.1
	25.8	25.4	24.8	24.3	23.8
	23.3	22.7	22.2	21.7	21.2
	20.6	20.3	19.8	19.3	18.9
	18.4	18.1	17.6	17.3	16.9
	16.5	16.2	15.9	15.4	15.1
	15.0	14.7	14.4	14.0	13.5
360	15.1	15.5	15.9	16.3	16.5
	16.8	17.2	17.7	18.2	18.7
	19.2	19.7	20.3	21.0	21.6
	22.1	22.9	23.7	24.7	25.9
	27.2	28.6	30.3	32.4	34.9
	38.1	42.2	36.8	-1.0	38.5
	35.4	33.9	41.1	40.4	38.1
	-1.0	33.4	38.5	32.1	30.5
	29.5	28.3	27.7	27.4	27.6
	27.8	27.8	28.0	28.1	28.1

	28.1	27.9	27.8	27.5	27.2
	26.9	26.5	25.6	25.1	24.5
	23.9	23.4	22.9	22.2	21.7
	21.1	20.6	20.1	19.6	19.3
	18.8	18.3	17.9	17.6	17.2
	16.8	16.5	16.1	15.7	15.4
	15.1	14.9	14.5	14.1	13.6
350	15.1	15.4	15.7	16.1	16.4
	16.8	17.1	17.6	18.2	18.6
	19.1	19.6	20.1	20.7	21.3
	22.0	22.7	23.7	24.6	25.7
	26.8	28.3	30.0	32.1	34.9
	38.6	43.4	31.7	32.1	39.2
	34.4	35.4	38.5	40.0	-1.0
	-1.0	35.3	-1.0	32.6	37.4
	33.0	30.2	30.2	29.1	29.4
	29.0	29.2	29.4	29.5	29.5
	29.4	29.3	29.0	28.8	28.5
	28.0	27.6	26.6	26.0	25.4
	24.7	24.0	23.4	22.7	22.2
	21.6	21.1	20.5	20.1	19.5
	19.0	18.6	18.2	17.8	17.4
	17.1	16.7	16.3	16.3	15.8
	15.5	15.2	14.6	14.1	13.7
340	15.1	15.4	15.7	16.0	16.7
	17.0	17.4	17.9	18.2	18.7
	19.1	19.6	20.0	20.6	21.2
	21.9	22.7	23.5	24.4	25.4
	26.6	28.0	29.7	31.7	34.5
	38.8	47.7	-1.0	31.8	37.4
	32.3	-1.0	46.1	41.5	42.9
	43.1	43.8	-1.0	32.7	-1.0
	33.2	34.5	35.8	31.6	31.1
	30.6	30.7	31.0	31.2	31.2
	31.1	30.9	30.6	30.2	29.8
	29.3	28.8	27.7	27.0	26.3
	25.5	24.8	24.0	23.3	22.6
	22.0	21.5	20.9	20.4	19.8
	19.4	19.0	18.6	18.2	17.8
	17.2	16.9	16.4	16.0	15.8
	15.4	15.1	14.8	14.2	13.9
330	15.3	15.7	16.3	16.6	17.1
	17.1	17.5	17.9	18.3	18.6
	19.0	19.5	20.1	20.6	21.1
	21.8	22.5	23.3	24.2	25.2
	26.3	27.6	29.1	31.1	33.3
	36.0	37.5	26.3	28.1	29.9
	27.9	27.0	46.5	40.6	39.1
	39.3	41.2	43.5	41.4	-1.0
	32.1	34.8	-1.0	33.8	37.0
	32.5	32.7	33.1	33.5	33.3
	33.0	32.7	32.3	31.9	31.4
	30.8	30.3	29.6	28.1	27.3
	26.4	25.5	24.7	24.0	23.2
	22.5	21.9	21.3	20.7	20.0
	19.5	19.1	18.7	18.3	17.8
	17.5	17.0	16.7	15.9	15.6
320	15.1	14.8	14.5	13.9	13.6
	15.6	16.0	16.3	16.7	17.2
	17.6	18.0	18.4	18.6	19.0
	19.2	19.6	20.0	20.6	21.2
	21.8	22.4	23.2	24.0	24.9
	25.9	27.0	28.5	29.8	31.7
	33.0	32.4	27.4	26.3	27.2
	28.9	35.0	36.8	37.3	36.6
	36.9	37.8	38.7	40.2	44.7
	42.3	37.0	-1.0	32.0	-1.0
	34.2	35.2	36.5	36.2	35.8
	35.3	34.8	34.3	33.7	33.2
	32.5	31.8	31.1	29.4	28.4
	27.3	26.3	25.3	24.3	23.4
	22.6	21.9	21.3	20.7	20.1
	19.7	18.8	18.4	18.1	17.6
	17.2	16.8	16.5	16.0	15.7
	15.2	14.7	14.5	13.8	13.7
310	15.4	15.8	16.1	16.4	17.0
	17.3	17.8	18.2	18.5	18.8
	19.2	19.6	20.1	20.5	21.1
	21.5	22.2	22.9	23.7	24.5
	25.4	26.4	27.4	28.7	29.5
	29.4	29.6	26.4	26.1	27.2
	29.0	32.1	33.3	34.5	34.6
	34.8	35.3	36.0	37.1	38.8
	40.2	44.7	42.9	39.7	-1.0
	34.5	38.9	41.7	40.0	39.1
	38.2	37.4	36.9	36.1	35.4
	34.5	33.6	32.8	30.8	29.6
	28.2	26.9	25.7	24.6	23.5
	22.7	21.9	21.2	20.6	20.1
	19.7	19.2	18.3	17.9	17.5
	17.1	16.8	16.4	16.0	15.8
	15.4	15.1	14.8	14.0	13.8
300	14.9	15.3	15.7	16.1	16.6
	16.9	17.3	17.7	18.2	18.5
	19.0	19.5	20.0	20.5	21.1
	21.6	22.2	22.8	23.4	24.2
	24.8	25.9	26.5	27.1	26.8
	28.2	27.4	27.6	26.0	26.9
	29.1	30.2	31.1	32.3	32.4
	33.1	33.5	34.1	34.9	35.9
	37.0	38.7	39.4	42.5	44.1
	39.1	39.7	52.1	42.4	45.5
	42.0	40.8	40.8	39.0	38.5
	37.1	35.9	35.3	32.9	31.0
	29.1	27.4	26.0	24.8	23.5
	22.6	21.6	21.0	20.3	19.6
	19.0	18.6	18.1	17.8	17.4
	17.3	16.8	16.5	16.3	16.0
	15.4	15.1	14.8	14.2	13.9
290	15.0	15.4	15.7	16.1	16.6
	16.9	17.3	17.8	18.1	18.5
	19.0	19.3	19.8	20.3	20.9
	21.4	21.9	22.5	23.1	23.7
	24.6	25.0	26.2	26.4	26.3
	27.2	26.6	26.4	25.5	27.0
	27.8	28.8	29.7	30.2	31.1
	31.6	32.0	32.7	33.3	34.0
	34.8	35.6	36.5	37.6	37.6
	35.9	34.3	-1.0	38.4	-1.0
	38.2	45.7	47.4	42.4	45.4
	40.4	38.5	39.7	36.4	32.8

	29.9	27.7	26.2	24.8	23.6
	22.6	21.8	21.0	20.4	19.8
	19.4	18.8	18.4	18.2	17.6
	17.2	16.8	15.8	15.4	15.3
280	15.0	14.6	14.3	13.9	14.0
	15.0	15.4	15.7	16.1	16.6
	17.0	17.4	17.7	18.2	18.5
	19.0	19.3	19.7	20.1	20.6
	21.0	21.5	22.0	22.7	23.3
	24.1	24.5	24.9	24.8	25.6
	25.8	25.8	25.7	26.2	26.5
	27.0	27.9	28.5	29.1	30.0
	30.5	30.9	31.4	32.0	32.5
	33.0	33.4	33.9	34.2	34.1
	33.5	35.2	35.4	34.4	-1.0
	31.3	-1.0	-1.0	34.2	-1.0
	39.1	40.6	50.0	40.6	33.9
	30.2	27.7	25.7	24.2	23.1
	22.2	21.2	20.1	19.2	18.5
	17.9	17.8	17.3	16.9	16.8
	16.4	16.0	15.5	15.1	14.8
270	14.9	14.6	14.1	13.8	13.5
	14.9	15.5	15.8	16.2	16.6
	16.9	17.4	17.7	18.1	18.3
	18.6	19.1	19.5	19.9	20.4
	20.8	21.3	21.8	22.3	23.1
	23.4	24.3	23.7	24.5	25.4
	25.2	25.1	25.6	25.4	26.1
	26.6	27.4	27.9	28.4	29.1
	29.5	29.9	30.2	30.5	31.0
	31.4	31.8	31.7	31.8	31.8
	32.3	35.9	38.3	39.2	39.1
	37.7	36.3	34.9	32.6	-1.0
	30.2	-1.0	-1.0	37.5	32.6
	29.7	27.7	25.9	24.7	23.4
	22.5	21.8	21.3	20.6	20.3
	19.6	19.0	18.0	17.6	17.2
	17.1	16.6	16.0	15.5	15.1
260	14.7	14.4	13.9	13.6	13.3
	15.1	15.5	15.7	16.1	16.4
	16.7	17.2	17.4	17.7	18.2
	18.5	19.0	19.4	19.8	20.2
	20.7	21.1	21.6	22.4	22.5
	23.4	23.6	23.6	24.2	25.0
	24.7	24.6	25.1	25.5	25.4
	25.9	26.6	27.0	27.4	27.7
	28.4	29.0	29.4	29.8	30.0
	30.2	30.6	31.1	31.8	31.0
	30.7	-1.0	34.0	34.1	35.1
	35.4	36.6	37.7	38.5	38.2
	36.5	34.8	33.4	33.1	30.3
	27.6	25.4	23.8	22.6	22.3
	21.8	21.1	21.0	20.3	20.1
	19.2	18.9	18.6	18.2	17.8
	17.1	16.6	16.1	15.4	15.1
250	15.2	14.9	14.8	14.5	14.5
	14.8	15.1	15.4	15.8	16.1
	16.6	17.1	17.4	17.9	18.2
	18.5	18.9	19.3	19.8	20.1
	20.6	21.0	21.7	22.3	22.5
	22.7	22.7	23.2	23.9	24.1
	24.0	24.4	24.5	24.8	24.8
	25.2	25.7	26.1	26.6	27.0
	27.6	28.0	28.4	28.7	29.1
	29.5	30.2	30.9	32.6	35.1
	39.4	-1.0	37.5	33.7	-1.0
	33.6	-1.0	34.4	34.8	34.0
	34.5	36.1	36.1	30.7	28.2
	26.2	24.4	22.9	21.5	20.4
	19.6	20.0	19.4	19.4	19.2
	18.8	18.2	17.9	18.0	17.5
	17.1	16.8	16.4	15.7	15.5
240	15.5	15.1	14.6	14.3	14.0
	14.6	15.2	15.4	15.8	16.2
	16.5	17.1	17.3	17.7	18.0
	18.4	18.7	19.1	19.7	20.1
	20.4	20.9	21.5	21.8	22.5
	22.0	22.4	23.0	23.6	23.2
	23.7	23.7	23.8	24.1	24.1
	24.5	25.1	25.5	25.8	26.2
	26.6	27.3	27.6	28.0	28.4
	29.0	29.6	30.6	32.0	34.5
	39.0	43.6	39.8	47.5	44.6
	42.9	-1.0	38.9	-1.0	-1.0
	28.9	-1.0	29.7	28.4	26.9
	25.5	24.0	23.9	22.5	21.3
	20.2	19.2	18.5	17.9	17.3
	17.0	16.6	16.9	17.0	16.6
	16.3	15.9	15.6	15.2	15.7
230	15.1	15.0	14.2	14.3	13.7
	14.7	15.1	15.3	15.7	16.1
	16.4	16.9	17.2	17.7	18.0
	18.4	18.9	19.2	19.6	19.8
	20.5	21.0	21.4	21.7	21.8
	21.7	22.1	22.7	23.2	22.9
	23.1	23.2	23.3	23.6	23.6
	24.0	24.5	24.9	25.2	25.6
	26.0	26.5	27.0	27.3	27.7
	28.2	28.9	29.7	31.0	32.7
	35.0	36.9	37.6	39.5	40.1
	41.8	43.0	41.5	49.5	41.3
	43.5	-1.0	32.9	32.0	29.0
	26.9	25.2	23.6	22.2	21.1
	20.0	19.0	18.2	17.3	16.6
	16.0	15.9	15.6	15.1	14.7
	14.5	14.4	15.1	15.0	14.5
220	14.1	13.8	13.8	13.5	13.7
	14.6	15.0	15.2	15.6	16.0
	16.2	16.9	17.2	17.6	18.0
	18.4	18.9	19.0	19.4	19.8
	20.3	20.8	20.8	21.1	21.0
	21.3	22.0	22.3	22.6	22.5
	22.5	22.7	22.8	23.1	23.0
	23.6	23.9	24.2	24.6	25.0
	25.3	25.9	26.2	26.6	27.0
	27.5	28.1	28.9	29.8	31.3
	32.7	33.8	34.9	35.8	36.6
	37.3	37.7	38.8	39.7	39.0
	40.8	42.8	38.0	32.2	29.4
	27.5	25.9	24.2	23.0	21.3
	20.2	19.3	18.5	17.7	17.0

210	16.2	15.6	14.9	14.3	13.8
	13.8	13.6	13.5	13.4	13.0
	13.0	12.8	13.1	12.8	12.8
	14.5	14.9	15.1	15.6	15.9
	16.3	16.7	17.2	17.7	18.1
	18.2	18.6	18.9	19.2	19.6
	20.1	20.3	20.8	20.4	20.6
	20.9	21.6	22.0	21.9	21.8
	21.9	22.2	22.3	22.5	22.8
	23.1	23.3	23.7	24.0	24.3
200	24.7	25.1	25.7	26.1	26.4
	26.7	27.4	28.4	29.0	29.9
	30.9	32.1	32.8	33.4	33.9
	34.7	35.2	35.6	35.8	35.9
	36.4	36.5	34.9	32.5	29.9
	26.7	25.6	24.5	23.3	22.7
	21.6	20.7	19.8	18.8	17.9
	17.2	16.6	15.6	15.0	14.2
	13.7	13.0	12.6	12.0	12.2
	12.0	11.8	11.7	11.6	11.5
190	14.5	14.9	15.2	15.5	15.9
	16.3	16.8	17.3	17.4	17.8
	18.0	18.3	18.6	19.0	19.5
	19.8	20.1	19.9	20.1	20.4
	20.9	21.0	21.7	21.2	21.4
	21.5	21.7	21.8	22.0	22.4
	22.6	23.0	23.3	23.6	23.9
	24.2	24.6	25.1	25.5	25.8
	26.3	27.0	27.5	28.0	29.0
	29.7	30.4	31.1	31.4	32.2
180	32.6	32.9	33.1	33.3	33.3
	33.4	33.1	32.2	30.8	29.3
	27.8	26.2	23.7	22.7	21.9
	21.4	20.8	19.9	19.6	18.6
	18.1	17.3	16.9	16.4	15.6
	15.0	14.4	13.9	13.3	12.9
	11.5	11.1	10.7	10.0	9.7
	14.6	14.9	15.2	15.5	15.8
	16.4	16.6	16.9	17.3	17.6
	17.9	18.2	18.4	18.9	19.2
170	19.4	19.5	19.3	19.6	20.0
	20.5	21.1	21.2	20.9	21.0
	21.0	21.2	21.3	21.7	22.1
	22.3	22.6	22.9	23.2	23.5
	23.8	24.1	24.4	24.9	25.6
	25.9	26.3	26.8	27.4	28.0
	28.5	29.1	29.6	30.2	30.6
	30.9	31.1	31.2	31.3	31.2
	31.1	30.8	30.2	29.2	28.2
	27.1	26.0	25.1	22.7	21.5
160	20.8	20.1	19.5	19.4	18.8
	17.9	17.4	17.3	16.6	16.1
	15.6	15.1	14.8	14.4	13.8
	13.2	12.9	12.2	11.5	10.8
	14.5	14.8	15.1	15.4	15.8
	16.1	16.6	16.8	16.9	17.3
	17.5	17.9	18.1	18.6	18.6
	19.2	18.6	19.2	19.5	19.9
	20.3	20.5	20.6	20.6	20.7
	20.8	21.0	21.2	21.4	21.7
150	22.0	22.2	22.5	22.8	23.1
	23.3	23.6	24.1	24.6	24.9
	25.5	25.7	26.1	26.6	27.1
	27.5	27.9	28.6	28.9	29.2
	29.4	29.5	29.6	29.6	29.5
	29.3	29.0	28.6	27.9	27.1
	26.2	25.4	24.5	23.8	23.1
	20.9	20.2	19.3	18.7	18.2
	17.8	17.6	17.1	16.5	15.7
	15.5	15.5	15.2	14.5	14.3
140	14.0	13.2	12.9	12.6	12.0
	14.2	14.7	15.1	15.4	15.8
	15.8	16.3	16.5	16.9	17.2
	17.4	17.6	18.0	18.3	18.6
	18.5	18.6	18.9	19.3	19.7
	19.8	20.3	20.2	20.2	20.5
	20.5	20.7	20.8	21.2	21.4
	21.6	21.8	22.1	22.4	22.6
	23.1	23.2	23.6	24.0	24.6
	24.7	25.1	25.4	25.8	26.2
130	26.6	27.2	27.5	27.8	27.9
	28.2	28.2	28.3	28.2	28.1
	27.9	27.6	27.3	26.7	26.1
	25.4	24.7	24.0	23.3	22.6
	22.0	21.1	19.7	19.0	18.4
	17.5	17.1	16.7	16.3	16.3
	15.7	15.2	14.8	14.0	14.0
	13.9	13.8	13.1	12.8	12.6
	14.3	14.7	14.9	15.1	15.5
	15.7	16.1	16.5	16.7	16.9
120	17.1	17.7	18.0	18.0	18.5
	18.0	18.4	18.9	19.3	19.6
	19.9	20.0	19.9	19.9	20.2
	20.3	20.4	20.6	20.8	21.0
	21.4	21.5	21.7	22.2	22.4
	22.4	22.8	23.3	23.6	24.1
	24.2	24.5	24.8	25.1	25.4
	26.0	26.3	26.6	26.8	26.9
	27.0	27.1	27.1	27.0	26.9
	26.7	26.4	26.2	25.7	25.2
110	24.6	24.0	23.4	22.9	22.2
	21.6	21.1	20.7	19.2	18.6
	17.9	17.3	16.4	16.1	15.8
	15.5	14.9	14.5	14.2	14.0
	13.6	13.2	12.5	12.5	12.2
	13.7	14.6	14.8	15.0	15.3
	15.6	16.1	16.3	16.5	16.7
	17.2	17.5	17.8	18.0	17.5
	18.0	18.4	18.6	19.1	19.1
	19.7	19.6	19.5	19.7	20.0
100	20.0	20.0	20.1	20.5	20.9
	21.2	21.1	21.6	21.7	21.8
	22.4	22.6	22.9	23.1	23.4
	23.7	23.9	24.2	24.7	25.0
	25.2	25.5	25.7	25.9	26.0
	26.0	26.1	26.1	26.0	25.9
	25.7	25.4	25.2	24.8	24.4
	23.9	23.4	22.9	22.4	21.9
	21.3	20.8	20.4	20.0	19.5
	18.1	17.5	16.7	16.3	16.0
90	15.0	14.8	14.3	13.8	13.3

140	13.0	13.2	12.9	12.6	12.3
	13.9	14.1	14.6	14.9	15.2
	15.6	15.8	16.1	16.4	16.6
	17.0	17.2	17.6	17.6	17.5
	17.7	18.2	18.8	18.9	18.8
	19.3	19.2	19.3	19.5	19.5
	19.7	19.7	19.9	20.3	20.5
	20.9	21.0	21.1	21.4	21.7
	21.9	22.2	22.4	22.5	22.9
	23.2	23.4	23.9	24.1	24.3
	24.6	24.8	25.0	25.1	25.2
	25.2	25.2	25.2	25.1	25.0
	24.8	24.5	24.4	24.0	23.6
	23.2	22.8	22.3	21.9	21.5
	21.0	20.6	20.2	19.6	19.2
	18.9	18.5	17.1	16.6	16.1
	15.4	14.9	14.2	13.8	13.4
	13.1	12.6	12.3	12.0	12.2
	13.8	14.0	14.5	14.9	15.3
	15.5	15.7	16.0	16.2	16.6
130	16.8	16.8	17.4	17.1	17.4
	17.8	18.1	18.5	18.6	19.1
	19.1	19.0	18.9	19.1	19.1
	19.4	19.6	19.7	20.1	20.4
	20.5	20.5	20.8	21.1	21.3
	21.6	21.8	21.8	22.0	22.3
	22.7	23.1	23.3	23.5	23.7
	23.9	24.1	24.3	24.4	24.5
	24.4	24.4	24.4	24.3	24.1
	24.0	24.0	23.7	23.3	23.0
	22.6	22.2	21.8	21.4	21.0
	20.7	20.3	19.9	19.5	19.0
	18.6	18.2	17.9	16.9	16.1
	15.7	15.3	14.6	14.0	13.5
	12.7	12.7	12.2	11.9	11.6
	13.5	13.8	14.4	14.8	15.1
	15.3	15.5	15.8	16.2	16.4
	16.6	16.8	16.7	16.9	17.4
	17.5	17.9	18.2	18.2	18.8
	18.9	18.7	18.6	18.8	19.0
120	19.2	19.3	19.5	19.6	19.9
	20.3	20.2	20.6	20.8	21.0
	21.2	21.4	21.4	21.6	21.8
	22.4	22.6	22.8	23.0	23.2
	23.3	23.5	23.6	23.7	23.8
	23.8	23.7	23.6	23.6	23.4
	23.3	23.3	23.0	22.7	22.4
	22.1	21.7	21.4	21.0	20.6
	20.2	20.0	19.7	19.3	18.8
	18.4	18.0	17.6	17.3	17.0
	16.2	15.4	14.9	14.4	13.9
	13.1	12.8	12.0	11.8	11.5
	13.6	13.9	14.3	14.6	15.0
	15.2	15.3	15.7	16.0	16.2
	16.4	16.4	16.4	16.9	17.0
	17.6	17.8	18.0	18.0	18.4
	18.3	18.1	18.5	18.7	18.7
	19.0	19.0	19.1	19.5	19.7
	19.9	20.2	20.3	20.4	20.6
	20.8	20.8	21.0	21.2	21.6
110	21.8	22.2	22.3	22.5	22.7
	22.8	22.9	23.0	23.1	23.2
	23.2	23.0	23.0	22.9	22.8
	22.7	22.7	22.5	22.1	21.8
	21.5	21.3	20.9	20.6	20.2
	19.9	19.6	19.2	19.0	18.7
	18.2	17.9	17.7	17.1	16.8
	16.5	16.2	15.3	14.5	14.0
	13.3	13.1	12.4	12.2	11.9
	13.4	13.6	14.0	14.3	14.7
100	15.0	15.2	15.7	15.9	15.9
	16.2	15.8	16.3	16.7	17.1
	17.3	17.6	17.6	18.0	18.1
	18.1	18.1	18.3	18.5	18.6
	18.6	18.7	19.0	19.1	19.4
	19.7	19.9	19.9	20.1	20.3
	20.3	20.5	20.6	21.0	21.2
	21.4	21.7	21.9	22.0	22.2
	22.3	22.4	22.5	22.5	22.6
	22.6	22.5	22.4	22.3	22.2
	22.1	22.1	21.9	21.7	21.3
	21.0	20.8	20.4	20.1	19.9
	19.5	19.2	19.0	18.5	18.4
	18.2	17.7	17.3	17.0	16.6
	16.3	16.0	15.8	14.6	14.4
	13.4	13.0	12.7	12.4	12.2
	12.9	13.5	13.8	14.2	14.5
	14.8	15.2	15.4	15.7	15.9
	15.5	15.6	16.2	16.7	16.9
	17.1	17.3	17.3	17.8	18.0
90	17.9	17.9	18.1	18.3	18.2
	18.5	18.6	18.7	18.9	19.2
	19.4	19.6	19.6	19.8	19.8
	20.0	20.1	20.5	20.6	20.8
	21.0	21.3	21.4	21.6	21.7
	21.8	21.9	22.0	22.0	22.0
	22.1	22.0	21.8	21.7	21.7
	21.5	21.5	21.4	21.2	21.0
	20.7	20.3	20.1	19.7	19.4
	19.2	18.9	18.6	18.2	17.8
	17.6	17.4	17.0	16.8	16.4
	16.1	15.9	15.6	15.2	15.0
	14.0	13.7	12.8	12.3	12.1
	12.7	13.1	13.5	14.0	14.2
	14.9	15.1	15.2	15.5	15.7
	15.1	15.7	16.2	16.4	16.7
	16.9	17.1	17.3	17.7	17.8
	17.7	17.7	17.8	18.1	18.1
	18.2	18.2	18.3	18.8	18.9
	19.1	19.3	19.3	19.3	19.5
80	19.8	19.9	20.1	20.3	20.4
	20.6	20.7	21.0	21.1	21.2
	21.3	21.4	21.5	21.5	21.5
	21.5	21.5	21.3	21.2	21.1
	21.0	21.1	20.8	20.7	20.5
	20.2	19.9	19.6	19.4	19.1
	18.8	18.6	18.3	17.9	17.7
	17.2	17.0	16.7	16.6	16.3
	15.9	15.7	15.4	15.1	14.7
	14.5	14.2	13.1	12.9	12.0
70	12.3	13.0	13.4	13.5	14.1

		14.6	14.9	15.1	15.6	14.8
		15.0	15.5	16.0	16.1	16.5
		16.8	16.9	17.5	17.5	17.5
		17.2	17.5	17.7	17.9	17.7
		17.8	17.9	18.2	18.5	18.7
		18.8	19.0	19.1	19.0	19.3
		19.5	19.6	19.8	19.9	20.0
		20.2	20.3	20.6	20.7	20.8
		20.9	21.0	21.0	21.0	21.1
		21.1	21.0	20.9	20.8	20.7
		20.6	20.6	20.4	20.2	20.1
		19.9	19.5	19.3	19.0	18.8
		18.5	18.2	17.9	17.7	17.3
		16.9	16.7	16.4	16.1	16.0
		15.7	15.5	15.3	15.0	14.7
		14.3	14.1	13.7	13.3	12.6
60		12.2	12.6	13.0	13.4	14.1
		14.3	14.7	14.9	14.6	14.6
		15.2	15.6	15.8	15.8	16.4
		16.7	16.8	17.3	17.3	17.0
		17.1	17.3	17.5	17.4	17.4
		17.6	17.8	18.0	18.2	18.4
		18.5	18.7	18.7	18.9	19.0
		19.1	19.3	19.4	19.6	19.7
		19.8	19.9	20.1	20.3	20.4
		20.5	20.5	20.6	20.6	20.6
		20.6	20.6	20.5	20.3	20.2
		20.1	20.2	20.0	19.8	19.6
		19.5	19.3	19.0	18.7	18.5
		18.2	17.7	17.6	17.3	17.1
		16.7	16.3	16.1	15.9	15.6
		15.4	15.3	15.1	14.7	14.2
		14.0	13.6	13.4	13.1	12.9
50		11.5	12.2	12.8	13.2	13.8
		14.1	14.4	14.5	14.2	14.7
		15.3	15.4	15.6	15.9	16.3
		16.4	16.7	16.8	17.1	16.9
		16.9	17.1	17.1	17.1	17.2
		17.5	17.6	17.7	18.0	18.1
		18.3	18.3	18.6	18.6	18.7
		18.8	19.0	19.1	19.2	19.3
		19.5	19.6	19.7	19.9	20.0
		20.1	20.1	20.2	20.2	20.2
		20.2	20.2	20.1	20.0	19.8
		19.7	19.8	19.6	19.5	19.3
		19.1	19.0	18.8	18.3	18.1
		17.7	17.5	17.1	16.9	16.8
		16.3	16.1	15.9	15.6	15.3
		15.1	14.7	14.5	14.3	14.2
		13.6	13.2	13.0	12.8	12.6
40		11.3	11.8	12.2	13.1	13.2
		13.8	14.1	13.9	14.2	15.0
		15.1	15.3	15.4	15.7	16.0
		16.1	16.7	16.7	16.7	16.7
		16.7	16.7	16.9	16.9	17.1
		17.3	17.3	17.5	17.7	17.9
		17.9	18.2	18.3	18.3	18.4
		18.5	18.6	18.8	18.9	19.0
		19.1	19.2	19.3	19.6	19.6
		19.7	19.7	19.8	19.8	19.8
		19.8	19.7	19.7	19.6	19.4
		19.3	19.4	19.3	19.1	18.9
		18.7	18.6	18.5	18.2	17.8
		17.5	17.2	16.8	16.5	16.4
		16.3	15.9	15.6	15.3	15.1
		14.9	14.5	14.1	13.9	13.5
		13.5	13.1	13.1	12.6	12.4
30		10.8	11.3	12.1	12.7	13.1
		13.9	13.2	13.5	14.3	14.7
		15.1	15.2	15.4	15.6	15.8
		16.0	16.5	16.6	16.5	16.4
		16.4	16.5	16.7	16.8	16.9
		17.0	17.1	17.2	17.5	17.6
		17.8	17.9	18.0	18.0	18.1
		18.2	18.3	18.5	18.6	18.7
		18.8	18.9	18.9	19.1	19.3
		19.3	19.4	19.4	19.4	19.4
		19.4	19.4	19.3	19.3	19.1
		19.0	19.0	18.9	18.8	18.6
		18.4	18.2	18.1	17.9	17.5
		17.3	17.0	16.7	16.3	15.9
		15.9	15.5	15.4	15.0	14.9
		14.5	14.3	13.9	13.7	13.5
		13.1	12.9	12.7	12.5	12.3
20		9.9	11.2	11.3	12.0	13.2
		12.7	12.8	13.4	14.2	14.6
		14.9	14.9	15.2	15.5	15.5
		15.8	16.3	16.4	16.0	16.0
		16.2	16.3	16.6	16.5	16.7
		16.8	16.9	17.1	17.2	17.4
		17.5	17.6	17.8	17.9	17.8
		17.9	18.0	18.2	18.3	18.4
		18.4	18.5	18.6	18.7	18.9
		19.0	19.0	19.0	19.0	19.0
		19.0	19.0	19.0	18.9	18.7
		18.6	18.6	18.5	18.4	18.3
		18.2	17.9	17.7	17.5	17.4
		16.8	16.7	16.3	16.0	15.7
		15.5	15.4	15.0	14.7	14.4
		14.2	14.0	13.8	13.4	13.4
		13.0	12.7	12.5	12.3	12.1
10		9.7	9.9	11.2	11.6	12.3
		11.7	12.4	13.1	14.0	14.2
		14.5	14.9	15.2	15.3	15.3
		15.8	16.0	15.9	15.8	15.8
		16.0	16.1	16.4	16.3	16.4
		16.6	16.6	17.0	17.0	17.1
		17.3	17.4	17.5	17.6	17.5
		17.6	17.8	17.9	18.0	18.0
		18.1	18.2	18.3	18.3	18.6
		18.6	18.7	18.7	18.7	18.7
		18.7	18.6	18.7	18.6	18.5
		18.4	18.3	18.2	18.1	18.0
		17.8	17.6	17.4	17.3	17.0
		16.8	16.4	16.1	15.9	15.6
		15.2	14.9	14.9	14.5	14.2
		14.0	13.6	13.4	13.2	13.0
		12.8	12.6	12.4	12.2	12.0
0		9.1	9.7	10.6	10.8	10.4
		10.9	12.1	12.7	13.1	13.8
		14.1	14.8	15.0	15.2	15.1

	15.6	15.6	15.7	15.7	15.6
	15.8	16.0	16.2	16.1	16.2
	16.4	16.6	16.6	16.8	16.9
	17.0	17.1	17.2	17.3	17.3
	17.4	17.5	17.6	17.7	17.7
	17.8	17.9	18.0	18.0	18.2
	18.3	18.3	18.3	18.3	18.3
	18.3	18.3	18.3	18.3	18.2
	18.1	17.9	17.9	17.8	17.6
	17.5	17.3	17.1	16.8	16.6
	16.6	16.2	15.9	15.6	15.4
	15.0	14.7	14.3	14.1	14.0
	13.8	13.4	13.2	13.0	12.8
	12.6	12.4	12.2	12.0	11.9

```
( x = 586 ,y = 266 ,z = 4.0 ): 33.4
( x = 575 ,y = 224 ,z = 4.0 ): 34.3
```

```
LAeq , dzień: wartość największa występuje w punkcie (470,300,4.0)
i wynosi 52.1 dB(A)
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Koniec obliczeń
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Właściciel licencji: NOVUM PROJEKT Norbert Piróg
ul. Planetarna 21C/4, Żalasewo 62-020 Swarzędz
Licencja nr NP/62020/Spd/21 z dnia 14.05.2021

DANE WEJŚCIOWE

Rodzaj obliczeń: Poziom hałasu równoważnego

1. Nazwa projektu: Bez nazwy
2. Temperatura powietrza [st C.] = 10
3. Wilgotność względna powietrza [%] = 70
4. Tł0 akustyczne dB(A):
 Pora dnia : 0.0
 Pora nocy : 0.0
5. Rodzaj gruntu : grunt porowaty, wskaźnik gruntu G = 1
6. Punktowe źródła hałasu

Lp	Symbol	Współrzędne źródła			z	ht	Rodzaj źródła	LAW	tD	tN	Do
		x	y								
		m	m	m	m	m		dB(A)	h	h	dB
1	ZP 1	265.3	391.1	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
2	ZP 2	267.4	366.6	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
3	ZP 3	262.7	342.6	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
4	ZP 4	319.6	334.7	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
5	ZP 5	322.2	368.1	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
6	ZP 6	345.2	346.7	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
7	ZP 7	368.1	337.3	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
8	ZP 8	391.6	325.8	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
9	ZP 9	413.0	315.4	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
10	ZP 10	436.5	305.5	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
11	ZP 11	470.0	301.3	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
12	ZP 12	491.9	295.0	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
13	ZP 13	515.9	289.8	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
14	ZP 14	539.4	284.6	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
15	ZP 15	571.8	278.3	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
16	ZP 16	557.7	227.2	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
17	ZP 17	529.5	232.4	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
18	ZP 18	506.5	237.1	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
19	ZP 19	483.5	241.8	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3
20	ZP 20	459.0	245.9	1.5	0.0	0.0	wszechkier.	68.0	8.000	1.000	3

7. Liniowe źródła hałasu

Lp	Symbol	Początek				Koniec				LAW 8hD	LAW 1hN	D0
		x1	y1	z1	h1t	x2	y2	z2	h2t			
		m	m	m	m	m	m	m	m	dB(A)	dB(A)	dB
1	T1	570.7	251.7	0.0	0.0	515.4	263.7	0.0	0.0	69.5	69.8	
2	T2	515.4	263.7	0.0	0.0	459.0	274.7	0.0	0.0	70.2	69.9	
3	T3	297.1	388.5	0.0	0.0	289.3	338.9	0.0	0.0	69.9	67.5	
4	T4	344.6	369.2	0.0	0.0	343.1	366.1	0.0	0.0	64.2	58.0	
5	T5	369.2	358.7	0.0	0.0	368.7	354.0	0.0	0.0	64.3	58.1	
6	T6	392.2	347.8	0.0	0.0	391.6	344.6	0.0	0.0	64.2	58.0	
7	T7	416.2	337.3	0.0	0.0	415.1	335.2	0.0	0.0	64.1	58.0	
8	T8	437.1	327.9	0.0	0.0	436.5	324.3	0.0	0.0	64.2	58.1	

z - wysokość źródła nad gruntem ; ht - wysokość gruntu względem płaszczyzny odniesienia
LAW - poziom mocy akustycznej źródła nominalny
tD - czas pracy źródła w przedziale 8 kolejnych najmniej korzystnych godzin dnia
tN - czas pracy źródła w przedziale 1 najmniej korzystnej godziny nocy

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

8. Ekrany - budynki

Lp	Symbol	Wia	Współrzędne x,y wierzchołków ekranu[m]								ho	h1	ht	Współczynniki		
		ta	x1	y1	x2	y2	x3	y3	x4	y4	m	m	m	odbicia	scian	
		(W)												nr	1 - 4	
1	EK-B 1	280.9	381.2	282.5	393.2	268.4	396.3	266.3	385.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
2	EK-B 2	281.5	357.2	283.5	369.2	270.5	372.3	267.9	361.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
3	EK-B 3	277.8	334.7	279.9	347.3	266.3	349.9	263.7	337.3	0.0	9.0	0.0	0.8	0.8	0.8	0.8
4	EK-B 4	316.4	329.5	317.5	341.5	303.4	344.6	300.8	333.2	0.0	9.0	0.0	0.8	0.8	0.8	0.8
5	EK-B 5	319.1	364.0	321.1	376.0	306.5	378.6	304.4	367.1	0.0	9.0	0.0	0.8	0.8	0.8	0.8
6	EK-B 6	351.4	348.3	352.5	360.8	342.0	362.9	339.4	348.8	0.0	9.0	0.0	0.8	0.8	0.8	0.8
7	EK-B 7	376.0	336.8	378.1	349.3	366.1	352.0	364.5	340.5	0.0	9.0	0.0	0.8	0.8	0.8	0.8
8	EK-B 8	399.5	326.4	400.5	338.9	389.6	342.6	387.5	329.5	0.0	9.0	0.0	0.8	0.8	0.8	0.8
9	EK-B 9	421.9	315.4	424.5	329.5	413.0	332.1	409.9	318.0	0.0	9.0	0.0	0.8	0.8	0.8	0.8
10	EK-B 10	444.9	306.5	446.5	319.1	433.9	321.1	431.8	308.6	0.0	9.0	0.0	0.8	0.8	0.8	0.8
11	EK-B 11	562.9	228.7	565.5	242.3	553.5	244.4	550.4	230.3	0.0	9.0	0.0	0.8	0.8	0.8	0.8
12	EK-B 12	538.9	233.4	541.5	246.5	529.5	250.1	527.9	235.5	0.0	9.0	0.0	0.8	0.8	0.8	0.8
13	EK-B 13	515.9	238.1	518.5	251.2	506.5	253.3	503.9	239.7	0.0	9.0	0.0	0.8	0.8	0.8	0.8
14	EK-B 14	492.4	242.8	495.6	255.9	483.5	258.5	480.9	244.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
15	EK-B 15	468.9	243.9	471.0	259.5	459.0	261.6	456.9	248.0	0.0	9.0	0.0	0.8	0.8	0.8	0.8
16	EK-B 16	569.7	263.2	571.3	276.8	561.4	278.3	558.2	265.3	0.0	9.0	0.0	0.8	0.8	0.8	0.8
17	EK-B 17	544.1	267.9	546.7	280.9	534.7	283.5	532.6	270.0	0.0	9.0	0.0	0.8	0.8	0.8	0.8
18	EK-B 18	521.7	273.1	523.8	286.2	510.7	288.2	509.1	274.7	0.0	9.0	0.0	0.8	0.8	0.8	0.8
19	EK-B 19	497.6	277.3	499.7	290.9	488.2	292.9	486.2	279.4	0.0	9.0	0.0	0.8	0.8	0.8	0.8
20	EK-B 20	474.7	283.5	476.8	297.6	464.7	299.7	462.7	286.7	0.0	9.0	0.0	0.8	0.8	0.8	0.8

Koniec danych

LAeq , noc

0	10	20	30	40
50	60	70	80	90
100	110	120	130	140

	150	160	170	180	190
	200	210	220	230	240
	250	260	270	280	290
	300	310	320	330	340
	350	360	370	380	390
	400	410	420	430	440
	450	460	470	480	490
	500	510	520	530	540
	550	560	570	580	590
	600	610	620	630	640
	650	660	670	680	690
	700	710	720	730	740
	750	760	770	780	790
	800	810	820	830	840
-----+-----+-----+-----+-----					
630	10.2	10.3	10.5	10.7	10.9
	11.1	11.2	11.4	11.6	12.0
	12.2	12.4	12.8	12.9	13.0
	13.4	14.0	14.2	14.4	14.5
	14.8	14.8	14.8	14.9	14.8
	14.6	14.0	14.1	13.6	14.0
	14.0	13.8	14.1	14.2	14.5
	14.6	14.6	14.9	14.9	15.0
	15.0	15.0	14.3	14.3	14.3
	14.6	14.6	14.8	14.8	14.8
	14.7	14.7	14.7	14.6	14.6
	14.5	14.3	13.7	13.7	13.6
	13.5	13.2	13.1	13.0	12.9
	12.8	12.7	12.6	12.4	12.3
	11.9	11.8	11.7	11.6	11.5
	11.3	10.9	10.7	10.6	10.1
	9.5	9.3	8.6	8.5	7.7
620	10.3	10.5	10.7	10.9	11.1
	11.3	11.5	11.6	12.1	12.3
	12.4	12.8	13.0	13.2	13.5
	13.9	14.3	14.6	14.7	14.8
	15.0	15.2	15.3	15.2	15.2
	14.9	14.7	14.3	14.0	13.7
	14.2	14.1	14.5	14.5	14.8
	14.8	14.9	15.2	15.2	15.2
	15.3	14.9	14.6	14.6	14.4
	14.9	14.8	15.1	15.1	15.1
	15.0	15.0	14.9	14.9	14.8
	14.6	14.4	14.0	13.9	13.8
	13.5	13.4	13.3	13.2	13.1
	13.0	12.9	12.8	12.7	12.5
	12.2	12.0	11.9	11.8	11.6
	11.5	11.0	10.9	10.8	10.6
	10.1	9.5	9.4	8.7	8.5
610	10.5	10.7	10.9	11.1	11.3
	11.5	11.7	11.9	12.3	12.5
	12.9	13.1	13.3	13.6	13.8
	14.0	14.4	14.9	15.0	15.1
	15.5	15.6	15.6	15.6	15.5
	15.2	14.9	14.8	14.3	14.0
	14.5	14.4	14.8	14.8	15.1
	15.1	15.1	15.5	15.5	15.2
	15.5	14.9	14.9	14.9	15.1
	15.1	15.4	15.4	15.4	15.3
	15.3	15.2	15.2	15.1	14.9
	14.7	14.6	14.3	14.2	13.8
	13.8	13.7	13.6	13.5	13.3
	13.2	13.1	13.0	12.9	12.7
	12.6	12.2	12.1	12.0	11.8
	11.7	11.5	11.1	10.9	10.8
	10.7	10.1	9.5	9.4	8.7
600	10.7	10.9	11.1	11.3	11.5
	11.7	11.9	12.1	12.6	13.0
	13.2	13.4	13.7	13.9	14.1
	14.4	14.6	14.9	15.3	15.7
	15.8	15.9	15.9	16.1	15.4
	15.8	15.4	15.0	14.7	14.3
	14.8	14.7	14.9	15.3	15.4
	15.4	15.6	15.8	15.8	15.8
	15.5	15.1	15.1	15.1	15.4
	15.4	15.7	15.7	15.6	15.6
	15.6	15.5	15.5	15.3	15.2
	15.0	14.9	14.5	14.2	14.1
	14.0	13.9	13.8	13.7	13.6
	13.5	13.3	13.2	13.1	13.0
	12.8	12.7	12.3	12.2	12.0
	11.9	11.7	11.6	11.1	11.0
	10.8	10.7	10.1	9.5	9.4
590	10.9	11.1	11.3	11.5	12.0
	11.9	12.1	12.3	12.5	13.0
	13.4	13.6	14.0	14.2	14.5
	14.7	14.9	15.0	15.9	16.0
	16.2	16.4	16.2	16.3	15.8
	16.3	15.7	15.7	15.0	14.5
	15.1	15.0	15.2	15.6	15.7
	15.7	16.1	16.1	16.1	15.8
	15.8	15.4	15.4	15.8	15.7
	16.0	16.0	16.0	15.9	15.9
	15.8	15.8	15.7	15.5	15.3
	15.3	15.2	14.5	14.5	14.4
	14.3	14.2	14.1	13.9	13.8
	13.7	13.6	13.4	13.3	13.2
	13.0	12.9	12.5	12.4	12.2
	12.1	11.9	11.8	11.3	11.1
	11.0	10.8	10.3	10.1	9.5
580	11.0	11.2	11.5	11.7	11.9
	12.4	12.3	12.6	13.0	13.2
	13.4	14.1	14.3	14.5	14.8
	15.0	15.2	15.6	15.8	16.3
	16.6	16.7	16.6	16.6	16.0
	16.6	16.0	16.0	15.5	14.8
	15.4	15.3	15.5	16.0	16.0
	16.0	16.4	16.4	16.4	16.1
	15.7	15.7	15.7	16.0	16.0
	16.3	16.3	16.3	16.2	16.2
	16.1	16.1	15.9	15.8	15.6
	15.5	15.4	14.8	14.7	14.6
	14.5	14.4	14.3	14.2	14.1
	13.9	13.8	13.7	13.5	13.4
	13.2	13.1	12.9	12.6	12.4
	12.2	12.1	11.9	11.8	11.3
	11.1	11.0	10.8	10.3	10.1
570	11.2	11.4	11.7	11.9	12.1
	12.3	12.6	13.0	13.3	13.5
	13.9	14.1	14.5	14.9	15.1
	15.3	15.6	15.9	16.1	16.4

	16.9	17.1	17.2	17.1	17.2
	16.9	16.3	16.3	15.8	15.1
	15.7	15.9	15.9	16.3	16.3
	16.4	16.7	16.7	16.4	16.4
	16.0	16.0	16.5	16.3	16.6
	16.6	16.6	16.6	16.5	16.5
	16.4	16.2	16.1	16.0	15.9
	15.7	15.5	15.1	15.0	14.9
	14.8	14.7	14.6	14.5	14.3
	14.2	14.1	13.9	13.8	13.6
	13.5	13.3	13.1	12.8	12.6
	12.4	12.3	12.1	11.9	11.5
	11.3	11.1	11.0	10.8	10.3
560	11.4	11.6	11.8	12.1	12.3
	12.6	12.8	13.3	13.8	13.9
	14.2	14.4	14.8	15.0	15.4
	15.6	16.1	16.3	16.6	16.8
	17.2	17.5	17.7	17.5	17.6
	16.9	16.6	16.7	16.1	15.4
	16.0	16.2	16.2	16.6	16.7
	16.8	17.0	17.1	16.7	16.7
	16.3	16.3	16.8	16.7	17.0
	16.9	16.9	16.9	16.8	16.8
	16.6	16.5	16.3	16.3	16.1
	15.9	15.8	15.4	15.3	15.2
	15.1	15.0	14.9	14.7	14.6
	14.4	14.3	14.2	14.0	13.8
	13.7	13.5	13.3	13.2	12.8
	12.6	12.5	12.3	12.1	11.7
	11.5	11.3	11.1	11.0	10.8
550	11.5	11.8	12.0	12.3	12.5
	12.8	13.2	13.5	13.7	14.2
	14.4	14.7	15.1	15.3	15.5
	16.2	16.4	16.6	16.8	17.1
	17.3	17.8	18.1	17.9	18.0
	17.3	16.8	17.0	16.8	15.9
	16.4	16.4	16.6	17.0	17.0
	17.2	17.4	17.0	17.0	16.6
	16.6	17.1	17.0	17.3	17.3
	17.3	17.2	17.2	17.2	17.0
	16.9	16.8	16.7	16.5	16.4
	16.2	16.1	15.7	15.6	15.5
	15.4	15.3	15.1	15.0	14.9
	14.7	14.6	14.4	14.2	14.1
	13.9	13.7	13.6	13.4	13.0
	12.8	12.6	12.5	12.3	12.1
	11.6	11.5	11.3	11.1	10.9
540	11.7	11.9	12.2	12.5	12.7
	13.0	13.4	13.7	14.2	14.4
	14.7	15.1	15.4	15.6	15.9
	16.3	16.8	17.0	17.2	17.4
	17.7	18.0	18.4	18.4	18.4
	17.8	17.2	17.2	17.1	16.2
	16.0	16.8	17.0	17.4	17.4
	17.8	17.3	16.9	17.3	16.9
	16.9	17.4	17.3	17.7	17.6
	17.6	17.6	17.5	17.5	17.3
	17.2	17.0	16.9	16.8	16.6
	16.6	16.5	16.0	15.9	15.8
	15.7	15.6	15.4	15.3	15.1
	15.0	14.8	14.6	14.5	14.3
	14.1	13.9	13.8	13.6	13.4
	13.0	13.1	12.6	12.5	12.3
	11.8	11.6	11.4	11.3	11.1
530	11.8	12.1	12.4	12.6	12.9
	13.2	13.7	13.9	14.4	14.7
	15.1	15.4	15.9	15.9	16.3
	16.6	17.0	17.2	17.6	17.9
	18.2	18.4	18.9	19.0	18.9
	18.2	17.7	17.7	17.3	16.7
	16.4	17.2	17.4	17.8	17.8
	18.2	17.6	17.7	17.2	17.2
	17.8	17.8	18.0	18.0	18.0
	18.0	17.9	17.9	17.7	17.6
	17.4	17.3	17.2	17.0	17.0
	16.9	16.8	16.4	16.3	16.1
	16.0	15.9	15.7	15.6	15.4
	15.2	15.1	14.9	14.7	14.5
	14.3	14.2	14.0	13.8	13.6
	13.4	13.0	12.8	12.6	12.4
	12.2	11.8	11.6	11.4	11.2
520	12.0	12.3	12.5	12.8	13.1
	13.4	13.7	14.3	14.6	14.9
	15.3	15.6	15.9	16.3	16.6
	16.9	17.2	17.5	18.0	18.4
	18.6	18.9	19.1	19.5	19.4
	18.7	17.8	18.1	17.7	17.4
	17.1	17.7	17.8	18.2	18.2
	18.0	18.0	18.1	17.6	17.6
	18.2	18.1	18.4	18.4	18.4
	18.3	18.3	18.1	18.0	17.9
	17.7	17.6	17.5	17.4	17.3
	17.2	17.2	16.7	16.6	16.5
	16.3	16.2	16.0	15.9	15.7
	15.5	15.3	15.1	15.0	14.8
	14.6	14.4	14.2	14.2	13.8
	13.4	13.2	13.2	13.0	12.6
	12.4	11.9	11.8	11.6	11.4
510	13.4	12.9	12.7	13.0	13.3
	13.6	13.9	14.4	14.7	15.3
	15.6	15.9	16.2	16.7	17.0
	17.5	17.6	17.9	18.3	18.8
	19.1	19.4	19.6	19.8	19.9
	20.1	18.3	18.6	18.2	17.9
	17.3	18.2	18.3	18.7	18.1
	18.4	18.4	18.4	17.9	18.6
	18.6	18.8	18.8	18.8	18.7
	18.7	18.5	18.4	18.3	18.1
	18.0	17.9	17.8	17.8	17.7
	17.6	17.5	17.1	16.9	16.8
	16.7	16.5	16.3	16.2	16.0
	15.8	15.6	15.4	15.2	15.0
	14.8	14.8	14.4	14.2	14.0
	14.0	13.6	13.4	13.2	13.0
	12.6	12.1	11.9	11.7	11.5
500	13.6	13.8	14.0	13.6	13.7
	13.8	14.3	14.6	14.9	15.4
	15.8	16.2	16.6	17.0	17.3
	17.7	18.1	18.4	18.8	19.1
	19.5	19.9	20.2	20.4	20.6
	20.6	18.8	19.2	18.7	18.5

	17.8	18.5	18.8	19.2	18.6
	18.8	18.9	18.3	18.3	19.1
	18.9	19.2	19.2	19.2	19.1
	18.9	18.8	18.7	18.6	18.4
	18.4	18.3	18.2	18.2	18.1
	18.0	17.9	17.4	17.3	17.1
	17.0	16.8	16.7	16.5	16.3
	16.1	15.9	15.7	15.5	15.3
	15.0	14.8	14.8	14.6	14.4
	14.2	13.8	13.6	13.1	12.9
	12.7	12.3	12.1	11.8	11.6
490	14.0	13.9	14.2	14.5	14.7
	14.5	14.5	14.8	15.3	15.6
	16.0	16.3	16.9	17.3	17.7
	18.1	18.4	18.9	19.3	19.7
	20.0	20.4	20.8	21.1	21.4
	21.3	19.4	19.7	19.3	18.9
	18.9	19.1	19.4	19.1	19.0
	19.2	19.3	18.8	19.6	19.5
	19.7	19.7	19.6	19.6	19.5
	19.3	19.2	19.0	18.9	18.8
	18.7	18.7	18.6	18.6	18.5
	18.4	18.3	17.8	17.7	17.5
	17.3	17.2	17.0	16.8	16.6
	16.4	16.2	15.9	15.9	15.5
	15.5	15.3	15.0	14.8	14.6
	14.2	13.8	13.5	13.3	13.1
	12.9	12.7	12.2	12.0	11.8
480	14.2	14.5	14.7	14.9	15.1
	15.4	15.5	15.5	15.7	15.8
	16.2	16.7	17.1	17.6	18.0
	18.4	18.9	19.3	19.8	20.3
	20.6	21.0	21.4	21.8	22.2
	22.0	20.1	20.3	19.8	19.8
	19.4	19.8	19.8	19.4	19.8
	19.7	19.8	19.3	20.0	19.8
	20.2	20.1	20.0	20.0	19.7
	19.6	19.4	19.3	19.3	19.2
	19.2	19.1	19.1	19.0	18.9
	18.8	18.7	18.2	18.1	17.9
	17.7	17.5	17.3	17.1	17.0
	16.8	16.8	16.4	16.2	15.9
	15.7	15.5	15.2	15.0	14.7
	14.3	14.1	13.7	13.5	13.2
	13.0	12.8	12.3	12.1	12.2
470	14.0	14.7	14.8	15.2	15.5
	15.7	16.0	16.3	16.5	16.5
	16.7	17.0	17.4	17.8	18.2
	18.8	19.3	19.8	20.3	20.8
	21.3	21.7	22.2	22.6	23.0
	23.0	21.5	20.8	20.5	20.4
	20.2	20.6	19.5	19.8	20.3
	20.7	19.8	20.6	20.5	20.7
	20.6	20.6	20.5	20.2	20.1
	19.9	19.8	19.7	19.7	19.6
	19.6	19.6	19.5	19.5	19.4
	19.3	19.1	18.6	18.5	18.3
	18.1	18.0	17.8	17.5	17.5
	17.2	16.9	16.7	16.4	16.1
	15.9	15.8	15.4	15.2	14.8
	14.5	14.3	14.1	13.8	13.4
	13.2	13.2	12.8	12.5	12.3
460	14.0	14.3	14.8	15.2	15.5
	15.9	16.2	16.5	16.9	17.2
	17.6	17.6	18.1	18.3	18.6
	19.1	19.7	20.2	20.8	21.4
	21.9	22.5	23.0	23.5	24.0
	24.0	22.9	21.8	21.4	21.3
	20.9	19.5	20.0	20.4	20.7
	21.0	20.4	21.2	21.5	21.2
	21.1	21.0	20.7	20.6	20.3
	20.3	20.2	20.1	20.1	20.1
	20.1	20.1	20.0	19.9	19.8
	19.7	19.6	19.1	19.0	18.8
	18.6	18.4	18.1	18.2	17.7
	17.5	17.2	16.9	16.8	16.5
	16.1	15.7	15.5	15.2	15.1
	14.9	14.5	14.0	13.8	13.8
	13.6	13.3	12.9	12.7	12.4
450	14.6	14.9	15.1	15.0	15.5
	15.8	16.1	16.6	17.2	17.4
	17.9	18.2	18.8	19.0	19.3
	19.7	20.1	20.7	21.3	21.9
	22.6	23.3	24.0	24.7	25.2
	25.6	24.1	22.7	22.6	22.3
	21.8	19.8	20.7	21.2	21.6
	21.6	22.1	21.8	22.0	21.8
	21.6	21.5	21.1	20.8	20.7
	20.7	20.6	20.6	20.6	20.6
	20.6	20.6	20.5	20.4	20.4
	20.3	20.1	19.6	19.4	19.2
	19.1	19.0	18.6	18.3	18.1
	17.9	17.6	17.3	16.9	16.5
	16.2	16.1	15.9	15.4	15.2
	14.9	14.9	14.5	14.2	14.0
	13.7	13.5	13.2	12.8	12.6
440	14.2	14.7	15.3	15.6	15.7
	15.9	16.2	16.6	16.9	17.5
	18.1	18.6	19.1	19.5	20.0
	20.4	20.8	21.3	21.8	22.5
	23.3	24.1	24.9	25.7	26.5
	27.1	27.1	24.3	23.9	23.6
	20.5	20.3	21.4	22.1	22.5
	21.8	22.7	23.0	22.6	22.4
	22.1	21.7	21.3	21.2	21.2
	21.1	21.1	21.1	21.2	21.2
	21.2	21.2	21.1	21.0	20.9
	20.8	20.7	20.1	20.0	20.0
	19.6	19.2	19.0	18.7	18.4
	18.1	17.7	17.4	17.2	16.9
	16.5	16.2	15.9	15.6	15.6
	15.3	15.0	14.6	14.4	14.1
	13.8	13.6	13.4	12.9	12.7
430	14.6	14.8	15.1	15.3	15.9
	16.3	16.8	16.9	17.1	17.5
	17.9	18.4	19.1	19.7	20.3
	20.8	21.5	22.0	22.5	23.3
	24.0	24.9	25.9	26.9	28.0
	28.9	29.1	26.1	25.3	22.1
	20.6	20.9	23.1	23.3	24.0
	24.1	23.7	23.6	23.3	23.0

	22.4	21.9	21.7	21.7	21.7
	21.7	21.7	21.8	21.8	21.8
	21.8	21.8	21.7	21.7	21.6
	21.5	21.3	20.8	20.6	20.3
	20.0	19.7	19.4	19.0	18.7
	18.4	18.1	17.7	17.4	17.0
	16.7	16.4	16.3	16.0	15.8
	15.5	15.2	14.8	14.5	14.2
	14.0	13.7	13.5	13.0	12.8
420	14.9	15.2	15.1	15.6	15.9
	16.4	16.6	17.0	17.7	18.1
	18.3	18.5	19.0	19.5	20.2
	21.0	21.9	22.6	23.2	24.0
	24.8	25.8	27.0	28.2	29.6
	31.0	31.7	28.8	27.7	22.0
	20.9	21.3	24.6	24.8	24.2
	25.2	25.1	24.5	24.1	23.3
	22.6	22.3	22.2	22.2	22.2
	22.3	22.3	22.4	22.4	22.5
	22.5	22.5	22.4	22.4	22.3
	22.1	22.0	21.3	21.1	20.7
	20.4	20.1	19.7	19.6	19.1
	18.6	18.3	18.0	17.6	17.5
	17.2	16.9	16.5	16.2	15.9
	15.6	15.3	15.1	14.8	14.4
	14.1	13.8	13.6	13.1	12.9
410	15.0	15.3	15.4	15.7	16.3
	16.5	16.8	17.2	17.7	18.1
	18.6	19.2	19.5	19.8	20.3
	20.9	21.7	22.6	23.7	24.7
	25.6	26.7	28.0	29.5	31.4
	33.5	35.2	32.7	25.5	22.2
	22.2	22.5	26.3	26.5	27.4
	26.6	26.1	25.3	24.4	23.6
	23.1	22.9	22.7	22.7	22.8
	22.9	23.0	23.1	23.2	23.2
	23.2	23.3	23.2	23.0	23.1
	22.7	22.5	21.8	21.5	21.2
	21.0	20.5	20.1	19.7	19.4
	19.0	18.6	18.5	18.1	17.8
	17.4	17.1	16.7	16.4	16.1
	15.8	15.5	15.3	14.8	14.5
400	14.2	14.0	13.7	13.5	13.2
	14.9	15.4	15.7	16.1	16.3
	16.7	17.0	17.2	17.9	18.3
	18.8	19.3	19.8	20.5	21.0
	21.4	21.9	22.8	23.7	24.8
	26.1	27.5	29.0	30.8	33.0
	36.2	40.6	38.8	23.1	24.7
	25.3	24.1	28.7	29.4	29.3
	28.5	27.3	26.2	24.6	23.8
	23.6	23.4	23.4	23.4	23.4
	23.6	23.8	23.9	24.0	24.1
	24.0	24.0	23.9	23.7	23.6
	23.3	23.1	22.5	22.1	21.7
	21.3	20.9	20.5	20.2	19.7
	19.5	19.1	18.8	18.4	18.0
	17.6	17.3	16.9	16.6	16.3
	16.1	15.6	15.3	14.9	14.8
	14.5	14.3	14.0	13.5	13.3
390	15.2	15.5	15.8	16.1	16.4
	17.0	17.4	17.9	18.0	18.5
	19.0	19.4	19.9	20.5	21.1
	21.8	22.7	23.3	24.1	25.0
	26.3	27.7	29.4	31.5	34.1
	37.8	45.3	-1.0	-1.0	29.6
	31.4	25.6	32.0	33.8	31.6
	30.0	28.4	26.3	25.1	24.3
	24.0	24.0	24.0	24.1	24.3
	24.5	24.7	24.8	24.9	24.9
	24.9	24.8	24.7	24.5	24.3
	24.1	23.8	23.1	22.8	22.3
	21.9	21.5	21.2	20.8	20.3
	19.9	19.5	19.1	18.7	18.3
	17.9	17.5	17.1	16.8	16.6
	16.3	16.0	15.7	15.2	14.9
380	14.6	14.4	14.1	13.6	13.4
	15.3	15.9	16.5	16.7	17.0
	17.2	17.4	17.8	18.4	18.8
	19.2	19.8	20.2	20.7	21.4
	22.1	22.8	23.6	24.6	25.7
	26.8	28.2	29.8	31.9	34.4
	37.6	41.3	39.5	28.2	32.8
	34.2	25.4	31.9	37.8	34.4
	31.7	28.7	26.9	25.7	25.0
	24.6	24.5	24.9	25.2	25.3
	25.4	25.6	25.7	25.7	25.9
	25.7	25.7	25.6	25.4	25.2
	24.9	24.6	23.8	23.4	22.9
	22.6	22.1	21.7	21.2	20.7
	20.3	19.8	19.3	18.9	18.5
	18.1	17.9	17.6	17.2	16.8
	16.4	16.1	15.8	15.3	15.0
	14.7	14.5	14.2	13.7	13.5
370	15.0	15.4	15.7	16.3	16.6
	16.9	17.4	17.9	18.6	18.9
	19.2	19.7	20.4	21.0	21.6
	22.3	23.0	23.7	24.7	26.0
	27.1	28.6	30.3	32.3	34.6
	37.8	42.9	-1.0	-1.0	34.9
	33.9	-1.0	-1.0	42.2	36.8
	33.1	29.4	28.0	26.6	25.7
	25.7	25.7	25.4	25.8	25.9
	26.0	26.4	26.6	26.8	26.9
	26.8	26.7	26.6	26.4	26.1
	25.8	25.4	24.8	24.3	23.8
	23.3	22.7	22.2	21.7	21.2
	20.6	20.3	19.8	19.3	18.9
	18.4	18.1	17.6	17.3	16.9
	16.5	16.2	15.9	15.4	15.1
	15.0	14.7	14.4	14.0	13.5
360	15.1	15.5	15.9	16.3	16.5
	16.8	17.2	17.7	18.2	18.7
	19.2	19.7	20.3	21.0	21.6
	22.1	22.9	23.7	24.7	25.9
	27.1	28.5	30.3	32.4	34.9
	38.1	42.2	36.7	-1.0	36.4
	33.7	33.3	41.1	40.2	37.3
	-1.0	30.3	33.2	28.6	27.6
	26.7	26.1	26.1	26.1	26.8
	27.3	27.5	27.8	28.0	28.0

	28.0	27.9	27.8	27.5	27.2
	26.9	26.5	25.6	25.1	24.5
	23.9	23.4	22.9	22.2	21.7
	21.1	20.6	20.1	19.6	19.3
	18.8	18.3	17.9	17.6	17.2
	16.8	16.5	16.1	15.7	15.4
	15.1	14.9	14.5	14.1	13.6
350	15.1	15.4	15.7	16.1	16.4
	16.8	17.1	17.6	18.2	18.6
	19.1	19.6	20.1	20.7	21.3
	22.0	22.7	23.7	24.6	25.7
	26.8	28.3	30.0	32.1	34.9
	38.6	43.4	31.3	30.4	37.0
	32.9	35.1	38.4	40.0	-1.0
	-1.0	34.3	-1.0	27.7	31.7
	28.1	26.9	27.5	27.2	28.4
	28.4	28.8	29.2	29.4	29.4
	29.4	29.2	29.0	28.8	28.5
	28.0	27.6	26.6	26.0	25.4
	24.7	24.0	23.4	22.7	22.2
	21.6	21.1	20.5	20.1	19.5
	19.0	18.6	18.2	17.8	17.4
	17.1	16.7	16.3	16.3	15.8
	15.5	15.2	14.6	14.1	13.7
340	15.1	15.4	15.7	16.0	16.7
	17.0	17.4	17.9	18.2	18.7
	19.1	19.6	20.0	20.6	21.2
	21.9	22.7	23.5	24.4	25.4
	26.6	28.0	29.7	31.7	34.5
	38.8	47.7	-1.0	29.7	35.0
	30.5	-1.0	46.1	41.5	42.9
	43.1	43.8	-1.0	31.4	-1.0
	27.6	29.3	30.8	28.5	29.0
	29.7	30.3	30.9	31.1	31.1
	31.1	30.9	30.6	30.2	29.8
	29.3	28.8	27.7	27.0	26.3
	25.5	24.8	24.0	23.3	22.6
	22.0	21.5	20.9	20.4	19.8
	19.4	19.0	18.6	18.2	17.8
	17.2	16.9	16.4	16.0	15.8
	15.4	15.1	14.8	14.2	13.9
330	15.3	15.7	16.3	16.6	17.1
	17.1	17.5	17.9	18.3	18.6
	19.0	19.5	20.1	20.6	21.1
	21.8	22.5	23.3	24.2	25.2
	26.3	27.6	29.1	31.1	33.3
	36.0	37.5	26.1	26.7	28.4
	26.7	26.9	46.5	40.6	39.1
	39.3	41.2	43.5	41.3	-1.0
	31.0	32.8	-1.0	29.2	32.6
	31.1	32.3	33.0	33.4	33.3
	33.0	32.7	32.3	31.9	31.4
	30.8	30.3	29.6	28.1	27.3
	26.4	25.5	24.7	24.0	23.2
	22.5	21.9	21.3	20.7	20.0
	19.5	19.1	18.7	18.3	17.8
	17.5	17.0	16.7	15.9	15.6
	15.1	14.8	14.5	13.9	13.6
320	15.6	16.0	16.3	16.7	17.2
	17.6	18.0	18.4	18.6	19.0
	19.2	19.6	20.0	20.6	21.2
	21.8	22.4	23.2	24.0	24.9
	25.9	27.0	28.5	29.8	31.7
	33.0	32.4	27.2	25.8	26.5
	28.6	35.0	36.8	37.3	36.6
	36.9	37.8	38.7	40.2	44.7
	42.3	37.0	-1.0	27.5	-1.0
	33.5	35.1	36.4	36.2	35.8
	35.3	34.8	34.3	33.7	33.2
	32.5	31.8	31.1	29.4	28.4
	27.3	26.3	25.3	24.3	23.4
	22.6	21.9	21.3	20.7	20.1
	19.7	18.8	18.4	18.1	17.6
	17.2	16.8	16.5	16.0	15.7
	15.2	14.7	14.5	13.8	13.7
310	15.4	15.8	16.1	16.4	17.0
	17.3	17.8	18.2	18.5	18.8
	19.2	19.6	20.1	20.5	21.1
	21.5	22.2	22.9	23.7	24.5
	25.4	26.4	27.4	28.7	29.5
	29.4	29.6	26.2	25.8	27.0
	28.8	32.1	33.2	34.4	34.6
	34.7	35.3	36.0	37.1	38.8
	40.2	44.7	42.9	39.6	-1.0
	34.5	38.9	41.7	40.0	39.1
	38.2	37.4	36.9	36.1	35.4
	34.5	33.6	32.8	30.8	29.6
	28.2	26.9	25.7	24.6	23.5
	22.7	21.9	21.2	20.6	20.1
	19.7	19.2	18.3	17.9	17.5
	17.1	16.8	16.4	16.0	15.8
	15.4	15.1	14.8	14.0	13.8
300	14.9	15.3	15.7	16.1	16.6
	16.9	17.3	17.7	18.2	18.5
	19.0	19.5	20.0	20.5	21.1
	21.6	22.2	22.8	23.4	24.2
	24.8	25.9	26.5	27.1	26.8
	28.2	27.4	27.5	25.9	26.7
	29.0	30.1	31.1	32.3	32.4
	33.1	33.5	34.1	34.9	35.8
	37.0	38.7	39.4	42.5	44.1
	39.1	39.7	52.1	42.4	45.5
	42.0	40.8	40.8	39.0	38.5
	37.1	35.9	35.3	32.9	31.0
	29.1	27.4	26.0	24.8	23.5
	22.6	21.6	21.0	20.3	19.6
	19.0	18.6	18.1	17.8	17.4
	17.3	16.8	16.5	16.3	16.0
	15.4	15.1	14.8	14.2	13.9
290	15.0	15.4	15.7	16.1	16.6
	16.9	17.3	17.8	18.1	18.5
	19.0	19.3	19.8	20.3	20.9
	21.4	21.9	22.5	23.1	23.7
	24.6	25.0	26.2	26.4	26.3
	27.2	26.6	26.3	25.4	26.9
	27.7	28.8	29.6	30.1	31.1
	31.6	32.0	32.7	33.3	34.0
	34.8	35.6	36.5	37.6	37.6
	35.9	34.3	-1.0	38.4	-1.0
	38.2	45.7	47.4	42.4	45.4
	40.4	38.5	39.7	36.4	32.8

	29.9	27.7	26.2	24.8	23.6
	22.6	21.8	21.0	20.4	19.8
	19.4	18.8	18.4	18.2	17.6
	17.2	16.8	15.8	15.4	15.3
280	15.0	14.6	14.3	13.9	14.0
	15.0	15.4	15.7	16.1	16.6
	17.0	17.4	17.7	18.2	18.5
	19.0	19.3	19.7	20.1	20.6
	21.0	21.5	22.0	22.7	23.3
	24.1	24.5	24.9	24.8	25.6
	25.7	25.8	25.7	26.1	26.4
	26.9	27.9	28.4	29.1	30.0
	30.5	30.9	31.4	31.9	32.5
	33.0	33.4	33.9	34.2	34.1
	33.4	35.0	35.2	34.2	-1.0
	31.1	-1.0	-1.0	34.3	-1.0
	39.1	40.6	50.0	40.6	33.9
	30.2	27.7	25.7	24.2	23.1
	22.2	21.2	20.1	19.2	18.5
	17.9	17.8	17.3	16.9	16.8
	16.4	16.0	15.5	15.1	14.8
270	14.9	14.6	14.1	13.8	13.5
	14.9	15.5	15.8	16.2	16.6
	16.9	17.4	17.7	18.1	18.3
	18.6	19.1	19.5	19.9	20.4
	20.8	21.3	21.8	22.3	23.1
	23.4	24.3	23.7	24.5	25.4
	25.2	25.0	25.5	25.4	26.0
	26.6	27.4	27.9	28.4	29.1
	29.5	29.9	30.1	30.5	31.0
	31.4	31.8	31.7	31.8	31.7
	32.3	35.6	38.1	38.9	38.9
	37.4	36.2	34.9	32.7	-1.0
	30.5	-1.0	-1.0	37.5	32.6
	29.7	27.7	25.9	24.7	23.4
	22.5	21.8	21.3	20.6	20.3
	19.6	19.0	18.0	17.6	17.2
	17.1	16.6	16.0	15.5	15.1
260	14.7	14.4	13.9	13.6	13.3
	15.1	15.5	15.7	16.1	16.4
	16.7	17.2	17.4	17.7	18.2
	18.5	19.0	19.4	19.8	20.2
	20.7	21.1	21.6	22.4	22.5
	23.4	23.6	23.5	24.2	25.0
	24.6	24.6	25.1	25.4	25.4
	25.8	26.5	27.0	27.4	27.7
	28.4	29.0	29.3	29.8	30.0
	30.2	30.6	31.1	31.8	30.9
	30.7	-1.0	33.8	34.0	34.9
	35.2	36.5	37.9	38.8	38.5
	36.8	35.1	33.6	33.1	30.3
	27.6	25.4	23.8	22.6	22.3
	21.8	21.1	21.0	20.3	20.1
	19.2	18.9	18.6	18.2	17.8
	17.1	16.6	16.1	15.4	15.1
250	15.2	14.9	14.8	14.5	14.5
	14.8	15.1	15.4	15.8	16.1
	16.6	17.1	17.4	17.9	18.2
	18.5	18.9	19.3	19.8	20.1
	20.6	21.0	21.7	22.3	22.5
	22.7	22.7	23.2	23.9	24.0
	24.0	24.4	24.4	24.7	24.7
	25.2	25.7	26.1	26.6	27.0
	27.6	28.0	28.4	28.7	29.1
	29.5	30.2	30.9	32.6	35.1
	39.4	-1.0	37.5	33.6	-1.0
	33.6	-1.0	34.4	35.0	34.3
	34.8	36.4	36.4	30.8	28.2
	26.2	24.4	22.9	21.5	20.4
	19.6	20.0	19.4	19.4	19.2
	18.8	18.2	17.9	18.0	17.5
	17.1	16.8	16.4	15.7	15.5
240	15.5	15.1	14.6	14.3	14.0
	14.6	15.2	15.4	15.8	16.2
	16.5	17.1	17.3	17.7	18.0
	18.4	18.7	19.1	19.7	20.1
	20.4	20.9	21.5	21.8	22.5
	22.0	22.4	23.0	23.6	23.2
	23.7	23.7	23.8	24.0	24.0
	24.5	25.1	25.4	25.8	26.2
	26.6	27.3	27.6	28.0	28.4
	29.0	29.6	30.6	32.0	34.5
	39.0	43.6	39.8	47.5	44.6
	42.9	-1.0	38.9	-1.0	-1.0
	29.2	-1.0	29.9	28.5	27.0
	25.5	24.0	23.9	22.6	21.3
	20.2	19.2	18.5	17.9	17.3
	17.0	16.6	16.9	17.0	16.6
	16.3	15.9	15.6	15.2	15.7
230	15.1	15.0	14.2	14.3	13.7
	14.7	15.1	15.3	15.7	16.1
	16.4	16.9	17.2	17.7	18.0
	18.4	18.9	19.2	19.6	19.8
	20.5	21.0	21.4	21.7	21.8
	21.7	22.1	22.7	23.2	22.9
	23.1	23.2	23.3	23.6	23.6
	24.0	24.5	24.9	25.2	25.6
	26.0	26.5	27.0	27.3	27.7
	28.2	28.9	29.7	31.0	32.7
	35.0	36.9	37.6	39.5	40.1
	41.8	43.0	41.5	49.5	41.3
	43.5	-1.0	32.9	32.0	29.1
	27.0	25.2	23.6	22.3	21.1
	20.0	19.0	18.2	17.3	16.6
	16.0	15.9	15.6	15.1	14.7
	14.5	14.4	15.1	15.0	14.5
220	14.1	13.8	13.8	13.5	13.7
	14.6	15.0	15.2	15.6	16.0
	16.2	16.9	17.2	17.6	18.0
	18.4	18.9	19.0	19.4	19.8
	20.3	20.8	20.8	21.1	21.0
	21.3	22.0	22.3	22.6	22.5
	22.5	22.7	22.8	23.1	23.0
	23.6	23.9	24.2	24.6	25.0
	25.3	25.9	26.2	26.6	27.0
	27.5	28.1	28.9	29.8	31.3
	32.7	33.8	34.9	35.8	36.6
	37.3	37.7	38.8	39.7	39.0
	40.8	42.8	38.0	32.3	29.4
	27.5	26.0	24.2	23.0	21.3
	20.2	19.3	18.6	17.7	17.0

210	16.2	15.6	14.9	14.3	13.8
	13.8	13.6	13.5	13.4	13.0
	13.0	12.8	13.1	12.8	12.8
	14.5	14.9	15.1	15.6	15.9
	16.3	16.7	17.2	17.7	18.1
	18.2	18.6	18.9	19.2	19.6
	20.1	20.3	20.8	20.4	20.6
	20.9	21.6	22.0	21.9	21.8
	21.9	22.2	22.3	22.5	22.8
	23.1	23.3	23.7	24.0	24.3
200	24.7	25.1	25.7	26.1	26.4
	26.7	27.4	28.4	29.0	29.9
	30.9	32.0	32.7	33.4	33.9
	34.7	35.2	35.6	35.8	35.9
	36.4	36.5	34.9	32.5	29.9
	26.7	25.7	24.5	23.3	22.7
	21.6	20.7	19.8	18.8	17.9
	17.2	16.6	15.6	15.0	14.2
	13.7	13.0	12.6	12.0	12.2
	12.0	11.8	11.7	11.6	11.5
190	14.5	14.9	15.2	15.5	15.9
	16.3	16.8	17.3	17.4	17.8
	18.0	18.3	18.6	19.0	19.5
	19.8	20.1	19.9	20.1	20.4
	20.9	21.0	21.7	21.2	21.4
	21.5	21.7	21.8	22.0	22.4
	22.6	23.0	23.3	23.6	23.9
	24.2	24.6	25.1	25.5	25.8
	26.3	27.0	27.5	28.0	29.0
	29.7	30.4	31.1	31.4	32.2
180	32.6	32.9	33.1	33.3	33.4
	33.4	33.1	32.2	30.8	29.4
	27.8	26.2	23.7	22.7	21.9
	21.4	20.8	19.9	19.6	18.6
	18.1	17.3	16.9	16.4	15.6
	15.0	14.4	13.9	13.3	12.9
	11.5	11.1	10.7	10.0	9.7
	14.6	14.9	15.2	15.5	15.8
	16.4	16.6	16.9	17.3	17.6
	17.9	18.2	18.4	18.9	19.2
170	19.4	19.5	19.3	19.6	20.0
	20.5	21.1	21.2	20.9	21.0
	21.0	21.2	21.3	21.7	22.1
	22.3	22.6	22.9	23.2	23.5
	23.8	24.1	24.4	24.9	25.6
	25.9	26.3	26.8	27.4	28.0
	28.5	29.1	29.6	30.2	30.6
	30.9	31.1	31.2	31.3	31.2
	31.1	30.8	30.2	29.2	28.2
	27.1	26.0	25.1	22.7	21.5
160	20.8	20.1	19.5	19.4	18.8
	17.9	17.4	17.3	16.6	16.1
	15.6	15.1	14.8	14.4	13.8
	13.2	12.9	12.2	11.5	10.8
	14.5	14.8	15.1	15.4	15.8
	16.1	16.6	16.8	16.9	17.3
	17.5	17.9	18.1	18.6	18.6
	19.2	18.6	19.2	19.5	19.9
	20.3	20.5	20.6	20.6	20.7
	20.8	21.0	21.2	21.4	21.7
150	22.0	22.2	22.5	22.8	23.1
	23.3	23.6	24.1	24.6	24.9
	25.5	25.7	26.1	26.6	27.1
	27.5	27.9	28.6	28.9	29.2
	29.4	29.5	29.6	29.6	29.5
	29.3	29.0	28.6	27.9	27.1
	26.2	25.4	24.5	23.8	23.1
	20.9	20.2	19.3	18.7	18.2
	17.8	17.6	17.1	16.5	15.7
	15.5	15.5	15.2	14.5	14.3
140	14.0	13.2	12.9	12.6	12.0
	14.2	14.7	15.1	15.4	15.8
	15.8	16.3	16.5	16.9	17.2
	17.4	17.6	18.0	18.3	18.6
	18.5	18.6	18.9	19.3	19.7
	19.8	20.3	20.2	20.2	20.5
	20.5	20.7	20.8	21.2	21.4
	21.6	21.8	22.1	22.4	22.6
	23.1	23.2	23.6	24.0	24.6
	24.7	25.1	25.4	25.8	26.2
130	26.6	27.2	27.5	27.8	27.9
	28.2	28.2	28.3	28.2	28.1
	27.9	27.6	27.3	26.7	26.1
	25.4	24.7	24.0	23.3	22.6
	22.0	21.1	19.7	19.0	18.4
	17.5	17.1	16.7	16.3	16.3
	15.7	15.2	14.8	14.0	14.0
	13.9	13.8	13.1	12.8	12.6
	14.3	14.7	14.9	15.1	15.5
	15.7	16.1	16.5	16.7	16.9
120	17.1	17.7	18.0	18.0	18.5
	18.0	18.4	18.9	19.3	19.6
	19.9	20.0	19.9	19.9	20.2
	20.3	20.4	20.6	20.8	21.0
	21.4	21.5	21.7	22.2	22.4
	22.4	22.8	23.3	23.6	24.1
	24.2	24.5	24.8	25.1	25.4
	26.0	26.3	26.6	26.8	26.9
	27.0	27.1	27.1	27.0	26.9
	26.7	26.4	26.2	25.7	25.2
110	24.6	24.0	23.4	22.9	22.2
	21.6	21.1	20.7	19.2	18.6
	17.9	17.3	16.4	16.1	15.8
	15.5	14.9	14.5	14.2	14.0
	13.6	13.2	12.5	12.5	12.2
	13.7	14.6	14.8	15.0	15.3
	15.6	16.1	16.3	16.5	16.7
	17.2	17.5	17.8	18.0	17.5
	18.0	18.4	18.6	19.1	19.1
	19.7	19.6	19.5	19.7	20.0
100	20.0	20.0	20.1	20.5	20.9
	21.2	21.1	21.6	21.7	21.8
	22.4	22.6	22.9	23.1	23.4
	23.7	23.9	24.2	24.7	25.0
	25.2	25.5	25.7	25.9	26.0
	26.0	26.1	26.1	26.0	25.9
	25.7	25.4	25.2	24.8	24.4
	23.9	23.4	22.9	22.4	21.9
	21.3	20.8	20.4	20.0	19.5
	18.1	17.5	16.7	16.3	16.0
90	15.0	14.8	14.3	13.8	13.3

140	13.0	13.2	12.9	12.6	12.3
	13.9	14.1	14.6	14.9	15.2
	15.6	15.8	16.1	16.4	16.6
	17.0	17.2	17.6	17.6	17.5
	17.7	18.2	18.8	18.9	18.8
	19.3	19.2	19.3	19.5	19.5
	19.7	19.7	19.9	20.3	20.5
	20.9	21.0	21.1	21.4	21.7
	21.9	22.2	22.4	22.5	22.9
	23.2	23.4	23.9	24.1	24.3
130	24.6	24.8	25.0	25.1	25.2
	25.2	25.2	25.2	25.1	25.0
	24.8	24.5	24.4	24.0	23.6
	23.2	22.8	22.3	21.9	21.5
	21.0	20.6	20.2	19.6	19.2
	18.9	18.5	17.1	16.6	16.1
	15.4	14.9	14.2	13.8	13.4
	13.1	12.6	12.3	12.0	12.2
	13.8	14.0	14.5	14.9	15.3
	15.5	15.7	16.0	16.2	16.6
120	16.8	16.8	17.4	17.1	17.4
	17.8	18.1	18.5	18.6	19.1
	19.1	19.0	18.9	19.1	19.1
	19.4	19.6	19.7	20.1	20.4
	20.5	20.5	20.8	21.1	21.3
	21.6	21.8	21.8	22.0	22.3
	22.7	23.1	23.3	23.5	23.7
	23.9	24.1	24.3	24.4	24.5
	24.4	24.4	24.4	24.3	24.1
	24.0	24.0	23.7	23.3	23.0
110	22.6	22.2	21.8	21.4	21.0
	20.7	20.3	19.9	19.5	19.0
	18.6	18.2	17.9	16.9	16.1
	15.7	15.3	14.6	14.0	13.5
	12.7	12.7	12.2	11.9	11.6
	13.5	13.8	14.4	14.8	15.1
	15.3	15.5	15.8	16.2	16.4
	16.6	16.8	16.7	16.9	17.4
	17.5	17.9	18.2	18.2	18.8
	18.9	18.7	18.6	18.8	19.0
100	19.2	19.3	19.5	19.6	19.9
	20.3	20.2	20.6	20.8	21.0
	21.2	21.4	21.4	21.6	21.8
	22.4	22.6	22.8	23.0	23.2
	23.3	23.5	23.6	23.7	23.8
	23.8	23.7	23.6	23.6	23.4
	23.3	23.3	23.0	22.7	22.4
	22.1	21.7	21.4	21.0	20.6
	20.2	20.0	19.7	19.3	18.8
	18.4	18.0	17.6	17.3	17.0
90	16.2	15.4	14.9	14.4	13.9
	13.1	12.8	12.0	11.8	11.5
	13.6	13.9	14.3	14.6	15.0
	15.2	15.3	15.7	16.0	16.2
	16.4	16.4	16.4	16.9	17.0
	17.6	17.8	18.0	18.0	18.4
	18.3	18.1	18.5	18.7	18.7
	19.0	19.0	19.1	19.5	19.7
	19.9	20.2	20.3	20.4	20.6
	20.8	20.8	21.0	21.2	21.6
80	21.8	22.2	22.3	22.5	22.7
	22.8	22.9	23.0	23.1	23.2
	23.2	23.0	23.0	22.9	22.8
	22.7	22.7	22.5	22.1	21.8
	21.5	21.3	20.9	20.6	20.2
	19.9	19.6	19.2	19.0	18.7
	18.2	17.9	17.7	17.1	16.8
	16.5	16.2	15.3	14.5	14.0
	13.3	13.1	12.4	12.2	11.9
	13.4	13.6	14.0	14.3	14.7
70	15.0	15.2	15.7	15.9	15.9
	16.2	15.8	16.3	16.7	17.1
	17.3	17.6	17.6	18.0	18.1
	18.1	18.1	18.3	18.5	18.6
	18.6	18.7	19.0	19.1	19.4
	19.7	19.9	19.9	20.1	20.3
	20.3	20.5	20.6	21.0	21.2
	21.4	21.7	21.9	22.0	22.2
	22.3	22.4	22.5	22.5	22.6
	22.6	22.5	22.4	22.3	22.2
60	22.1	22.1	21.9	21.7	21.3
	21.0	20.8	20.4	20.1	19.9
	19.5	19.2	19.0	18.5	18.4
	18.2	17.7	17.3	17.0	16.6
	16.3	16.0	15.8	14.6	14.4
	13.4	13.0	12.7	12.4	12.2
	12.9	13.5	13.8	14.2	14.5
	14.8	15.2	15.4	15.7	15.9
	15.5	15.6	16.2	16.7	16.9
	17.1	17.3	17.3	17.8	18.0
50	17.9	17.9	18.1	18.3	18.2
	18.5	18.6	18.7	18.9	19.2
	19.4	19.6	19.6	19.8	19.8
	20.0	20.1	20.5	20.6	20.8
	21.0	21.3	21.4	21.6	21.7
	21.8	21.9	22.0	22.0	22.0
	22.1	22.0	21.8	21.7	21.7
	21.5	21.5	21.4	21.2	21.0
	20.7	20.3	20.1	19.7	19.4
	19.2	18.9	18.6	18.2	17.8
40	17.6	17.4	17.0	16.8	16.4
	16.1	15.9	15.6	15.2	15.0
	14.0	13.7	12.8	12.3	12.1
	12.7	13.1	13.5	14.0	14.2
	14.9	15.1	15.2	15.5	15.7
	15.1	15.7	16.2	16.4	16.7
	16.9	17.1	17.3	17.7	17.8
	17.7	17.7	17.8	18.1	18.1
	18.2	18.2	18.3	18.8	18.9
	19.1	19.3	19.3	19.3	19.5
30	19.8	19.9	20.1	20.3	20.4
	20.6	20.7	21.0	21.1	21.2
	21.3	21.4	21.5	21.5	21.5
	21.5	21.5	21.3	21.2	21.1
	21.0	21.1	20.8	20.7	20.5
	20.2	19.9	19.6	19.4	19.1
	18.8	18.6	18.3	17.9	17.7
	17.2	17.0	16.7	16.6	16.3
	15.9	15.7	15.4	15.1	14.7
	14.5	14.2	13.1	12.9	12.0
20	12.3	13.0	13.4	13.5	14.1

		14.6	14.9	15.1	15.6	14.8
		15.0	15.5	16.0	16.1	16.5
		16.8	16.9	17.5	17.5	17.5
		17.2	17.5	17.7	17.9	17.7
		17.8	17.9	18.2	18.5	18.7
		18.8	19.0	19.1	19.0	19.3
		19.5	19.6	19.8	19.9	20.0
		20.2	20.3	20.6	20.7	20.8
		20.9	21.0	21.0	21.0	21.1
		21.1	21.0	20.9	20.8	20.7
		20.6	20.6	20.4	20.2	20.1
		19.9	19.5	19.3	19.0	18.8
		18.5	18.2	17.9	17.7	17.3
		16.9	16.7	16.4	16.1	16.0
		15.7	15.5	15.3	15.0	14.7
		14.3	14.1	13.7	13.3	12.6
60		12.2	12.6	13.0	13.4	14.1
		14.3	14.7	14.9	14.6	14.6
		15.2	15.6	15.8	15.8	16.4
		16.7	16.8	17.3	17.3	17.0
		17.1	17.3	17.5	17.4	17.4
		17.6	17.8	18.0	18.2	18.4
		18.5	18.7	18.7	18.9	19.0
		19.1	19.3	19.4	19.6	19.7
		19.8	19.9	20.1	20.3	20.4
		20.5	20.5	20.6	20.6	20.6
		20.6	20.6	20.5	20.3	20.2
		20.1	20.2	20.0	19.8	19.6
		19.5	19.3	19.0	18.7	18.5
		18.2	17.7	17.6	17.3	17.1
		16.7	16.3	16.1	15.9	15.6
		15.4	15.3	15.1	14.7	14.2
		14.0	13.6	13.4	13.1	12.9
50		11.5	12.2	12.8	13.2	13.8
		14.1	14.4	14.5	14.2	14.7
		15.3	15.4	15.6	15.9	16.3
		16.4	16.7	16.8	17.1	16.9
		16.9	17.1	17.1	17.1	17.2
		17.5	17.6	17.7	18.0	18.1
		18.3	18.3	18.6	18.6	18.7
		18.8	19.0	19.1	19.2	19.3
		19.5	19.6	19.7	19.9	20.0
		20.1	20.1	20.2	20.2	20.2
		20.2	20.2	20.1	20.0	19.8
		19.7	19.8	19.6	19.5	19.3
		19.1	19.0	18.8	18.3	18.1
		17.7	17.5	17.1	16.9	16.8
		16.3	16.1	15.9	15.6	15.3
		15.1	14.7	14.5	14.3	14.2
		13.6	13.2	13.0	12.8	12.6
40		11.3	11.8	12.2	13.1	13.2
		13.8	14.1	13.9	14.2	15.0
		15.1	15.3	15.4	15.7	16.0
		16.1	16.7	16.7	16.7	16.7
		16.7	16.7	16.9	16.9	17.1
		17.3	17.3	17.5	17.7	17.9
		17.9	18.2	18.3	18.3	18.4
		18.5	18.6	18.8	18.9	19.0
		19.1	19.2	19.3	19.6	19.6
		19.7	19.7	19.8	19.8	19.8
		19.8	19.7	19.7	19.6	19.4
		19.3	19.4	19.3	19.1	18.9
		18.7	18.6	18.5	18.2	17.8
		17.5	17.2	16.8	16.5	16.4
		16.3	15.9	15.6	15.3	15.1
		14.9	14.5	14.1	13.9	13.5
		13.5	13.1	13.1	12.6	12.4
30		10.8	11.3	12.1	12.7	13.1
		13.9	13.2	13.5	14.3	14.7
		15.1	15.2	15.4	15.6	15.8
		16.0	16.5	16.6	16.5	16.4
		16.4	16.5	16.7	16.8	16.9
		17.0	17.1	17.2	17.5	17.6
		17.8	17.9	18.0	18.0	18.1
		18.2	18.3	18.5	18.6	18.7
		18.8	18.9	18.9	19.1	19.3
		19.3	19.4	19.4	19.4	19.4
		19.4	19.4	19.3	19.3	19.1
		19.0	19.0	18.9	18.8	18.6
		18.4	18.2	18.1	17.9	17.5
		17.3	17.0	16.7	16.3	15.9
		15.9	15.5	15.4	15.0	14.9
		14.5	14.3	13.9	13.7	13.5
		13.1	12.9	12.7	12.5	12.3
20		9.9	11.2	11.3	12.0	13.2
		12.7	12.8	13.4	14.2	14.6
		14.9	14.9	15.2	15.5	15.5
		15.8	16.3	16.4	16.0	16.0
		16.2	16.3	16.6	16.5	16.7
		16.8	16.9	17.1	17.2	17.4
		17.5	17.6	17.8	17.9	17.8
		17.9	18.0	18.2	18.3	18.4
		18.4	18.5	18.6	18.7	18.9
		19.0	19.0	19.0	19.0	19.0
		19.0	19.0	19.0	18.9	18.7
		18.6	18.6	18.5	18.4	18.3
		18.2	17.9	17.7	17.5	17.4
		16.8	16.7	16.3	16.0	15.7
		15.5	15.4	15.0	14.7	14.4
		14.2	14.0	13.8	13.4	13.4
		13.0	12.7	12.5	12.3	12.1
10		9.7	9.9	11.2	11.6	12.3
		11.7	12.4	13.1	14.0	14.2
		14.5	14.9	15.2	15.3	15.3
		15.8	16.0	15.9	15.8	15.8
		16.0	16.1	16.4	16.3	16.4
		16.6	16.6	17.0	17.0	17.1
		17.3	17.4	17.5	17.6	17.5
		17.6	17.8	17.9	18.0	18.0
		18.1	18.2	18.3	18.3	18.6
		18.6	18.7	18.7	18.7	18.7
		18.7	18.6	18.7	18.6	18.5
		18.4	18.3	18.2	18.1	18.0
		17.8	17.6	17.4	17.3	17.0
		16.8	16.4	16.1	15.9	15.6
		15.2	14.9	14.9	14.5	14.2
		14.0	13.6	13.4	13.2	13.0
		12.8	12.6	12.4	12.2	12.0
0		9.1	9.7	10.6	10.8	10.4
		10.9	12.1	12.7	13.1	13.8
		14.1	14.8	15.0	15.2	15.1

	15.6	15.6	15.7	15.7	15.6
	15.8	16.0	16.2	16.1	16.2
	16.4	16.6	16.6	16.8	16.9
	17.0	17.1	17.2	17.3	17.3
	17.4	17.5	17.6	17.7	17.7
	17.8	17.9	18.0	18.0	18.2
	18.3	18.3	18.3	18.3	18.3
	18.3	18.3	18.3	18.3	18.2
	18.1	17.9	17.9	17.8	17.6
	17.5	17.3	17.1	16.8	16.6
	16.6	16.2	15.9	15.6	15.4
	15.0	14.7	14.3	14.1	14.0
	13.8	13.4	13.2	13.0	12.8
	12.6	12.4	12.2	12.0	11.9

```
( x = 586 ,y = 266 ,z = 4.0 ): 33.4
( x = 575 ,y = 224 ,z = 4.0 ): 34.3
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LAeq , noc: wartość największa występuje w punkcie (470,300,4.0)
i wynosi 52.1 dB(A)
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Koniec obliczeń
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