

Z.U.O. "EKO - SOFT"
Łódź ul. Rogozińskiego 17/7
tel. 042 648 71 85

HAŁAS PRZEMYSŁOWY i DROGOWY
PROGRAM SON2 WERSJA 6.0

Właściciel licencji: PWeko Inżynieria Środowiska Sp. z o.o.
44-240 Żory, ul. Rozwojowa 2 bud. D lok. D1.6
Licencja nr PW/44217/Spd/20 z dnia 29.01.2020/21.12.2020

DANE WEJŚCIOWE

Rodzaj obliczeń: Poziom hałasu równoważnego

1. Nazwa projektu:
2. Temperatura powietrza [st C.] = 10
3. Wilgotność względna powietrza [%] = 70
4. Tłó akustyczne dB(A):
Pora dnia : 0.0
Pora nocy : 0.0

5. Rodzaj gruntu przeważającego: grunt mieszany, wskaźnik gruntu $G = 0.80$
6. Obszar nr 1 gruntu innej kategorii, o nazwie: Teren fermy - rodzaj gruntu : grunt porowaty, wskaźnik gruntu $G = 1$

Współrzędne wierzchołków wielokąta obszaru "Teren fermy"

Lp	Współrzędne wierzchołków	
	x	y

	m	m
=====		
1	66.9	364.7
2	323.8	371.6
3	358.9	365.0
4	354.1	310.5
5	420.5	307.4
6	419.9	286.5
7	407.0	284.9
8	402.2	198.2
9	360.5	214.1
10	354.9	212.5
11	350.7	136.9
12	334.6	136.6
13	332.2	96.7
14	192.7	104.9
15	192.7	171.8
16	133.7	160.2

7. Obszar nr 2 gruntu innej kategorii, o nazwie: Tereny rolne - rodzaj gruntu : grunt porowaty, wskaźnik gruntu $G = 1$

Współrzędne wierzchołków wielokąta obszaru "Tereny rolne"

Lp	Współrzędne wierzchołków	
	x	y

	m	m
=====		
1	1.1	61.8
2	150.4	88.8
3	253.7	86.4
4	538.1	74.0
5	537.6	1.1
6	0.5	1.3

8. Obszar nr 3 gruntu innej kategorii, o nazwie: Tereny rolne - rodzaj gruntu : grunt porowaty, wskaźnik

gruntu G = 1

Współrzędne wierzchołków wielokąta obszaru "Tereny rolne"

Lp	Współrzędne wierzchołków	
	x	y
	m	m
1	120.5	100.2
2	103.6	154.1
3	132.7	161.0
4	64.0	370.5
5	314.8	375.3
6	324.0	377.4
7	525.1	344.4
8	538.1	343.3
9	537.3	517.5
10	0.3	516.9
11	1.3	74.8

9. Punktowe źródła hałasu

Lp	Symbol		Współrzędne źródła			ht	Rodzaj źródła	LAW	tD	tN	Do
			x	y	z						
			m	m	m	m		dB(A)	h	h	dB
1	w.dachowe	1	232.0	217.5	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
2	w.dachowe	2	232.0	210.4	4.6	0.0	wszechkier.	77.9	8.000		3
3	w.dachowe	3	231.8	204.3	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
4	w.dachowe	4	231.5	196.4	4.6	0.0	wszechkier.	77.9	8.000		3
5	w.dachowe	5	231.0	190.3	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
6	w.dachowe	6	231.0	183.7	4.6	0.0	wszechkier.	77.9	8.000		3
7	w.dachowe	7	230.5	176.3	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
8	w.dachowe	8	230.2	171.5	4.6	0.0	wszechkier.	77.9	8.000		3
9	w.dachowe	9	229.9	163.9	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
10	w.dachowe	10	229.7	157.5	4.6	0.0	wszechkier.	77.9	8.000		3
11	w.dachowe	11	248.7	157.5	4.6	0.0	wszechkier.	77.9	8.000		3
12	w.dachowe	12	248.7	163.9	4.6	0.0	wszechkier.	77.9	8.000		3
13	w.dachowe	13	249.0	171.3	4.6	0.0	wszechkier.	77.9	8.000		3
14	w.dachowe	14	249.0	177.3	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
15	w.dachowe	15	250.0	183.7	4.6	0.0	wszechkier.	77.9	8.000		3
16	w.dachowe	16	249.5	190.8	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
17	w.dachowe	17	249.8	197.4	4.6	0.0	wszechkier.	77.9	8.000		3
18	w.dachowe	18	250.0	203.2	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
19	w.dachowe	19	250.3	210.6	4.6	0.0	wszechkier.	77.9	8.000		3
20	w.dachowe	20	250.5	216.7	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
21	w.dachowe	21	269.6	216.5	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
22	w.dachowe	22	269.3	209.6	4.6	0.0	wszechkier.	77.9	8.000		3
23	w.dachowe	23	269.3	203.0	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
24	w.dachowe	24	268.5	195.6	4.6	0.0	wszechkier.	77.9	8.000		3
25	w.dachowe	25	268.3	189.8	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
26	w.dachowe	26	268.0	182.9	4.6	0.0	wszechkier.	77.9	8.000		3
27	w.dachowe	27	268.0	175.8	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
28	w.dachowe	28	267.7	169.7	4.6	0.0	wszechkier.	77.9	8.000		3
29	w.dachowe	29	267.2	163.3	4.6	0.0	wszechkier.	77.9	8.000		3
30	w.dachowe	30	267.2	156.2	4.6	0.0	wszechkier.	77.9	8.000		3
31	w.dachowe	31	301.6	214.9	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
32	w.dachowe	32	301.6	207.2	4.6	0.0	wszechkier.	77.9	8.000		3
33	w.dachowe	33	301.3	201.4	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
34	w.dachowe	34	300.8	194.5	4.6	0.0	wszechkier.	77.9	8.000		3
35	w.dachowe	35	301.0	188.2	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
36	w.dachowe	36	300.2	181.3	4.6	0.0	wszechkier.	77.9	8.000		3
37	w.dachowe	37	300.5	174.4	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
38	w.dachowe	38	300.2	167.8	4.6	0.0	wszechkier.	77.9	8.000		3
39	w.dachowe	39	300.0	161.2	4.6	0.0	wszechkier.	77.9	8.000		3
40	w.dachowe	40	300.0	154.6	4.6	0.0	wszechkier.	77.9	8.000		3
41	w.dachowe	41	321.1	214.9	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
42	w.dachowe	42	320.3	207.7	4.6	0.0	wszechkier.	77.9	8.000		3
43	w.dachowe	43	319.8	201.1	4.6	0.0	wszechkier.	77.9	8.000	1.000	3
44	w.dachowe	44	319.8	194.5	4.6	0.0	wszechkier.	77.9	8.000		3
45	w.dachowe	45	319.8	188.2	4.6	0.0	wszechkier.	77.9	8.000	1.000	3

46	w.dachowe 46	319.0	181.0	4.6	0.0	wszechkier.	77.9	8.000	3
47	w.dachowe 47	318.7	174.2	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
48	w.dachowe 48	318.7	167.8	4.6	0.0	wszechkier.	77.9	8.000	3
49	w.dachowe 49	318.2	161.2	4.6	0.0	wszechkier.	77.9	8.000	3
50	w.dachowe 50	317.7	154.6	4.6	0.0	wszechkier.	77.9	8.000	3
51	w.dachowe 51	338.8	213.8	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
52	w.dachowe 52	338.8	206.9	4.6	0.0	wszechkier.	77.9	8.000	3
53	w.dachowe 53	338.3	200.1	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
54	w.dachowe 54	338.3	193.5	4.6	0.0	wszechkier.	77.9	8.000	3
55	w.dachowe 55	337.8	187.4	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
56	w.dachowe 56	337.8	180.5	4.6	0.0	wszechkier.	77.9	8.000	3
57	w.dachowe 57	337.2	173.1	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
58	w.dachowe 58	337.2	167.0	4.6	0.0	wszechkier.	77.9	8.000	3
59	w.dachowe 59	337.2	160.4	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
60	w.dachowe 60	336.4	153.6	4.6	0.0	wszechkier.	77.9	8.000	3
61	w.dachowe 61	268.8	265.6	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
62	w.dachowe 62	263.5	266.1	4.6	0.0	wszechkier.	77.9	8.000	3
63	w.dachowe 63	257.1	266.9	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
64	w.dachowe 64	251.6	267.2	4.6	0.0	wszechkier.	77.9	8.000	3
65	w.dachowe 65	245.5	267.2	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
66	w.dachowe 66	240.0	266.9	4.6	0.0	wszechkier.	77.9	8.000	3
67	w.dachowe 67	233.9	266.9	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
68	w.dachowe 68	227.0	268.0	4.6	0.0	wszechkier.	77.9	8.000	3
69	w.dachowe 69	222.3	268.0	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
70	w.dachowe 70	216.5	268.5	4.6	0.0	wszechkier.	77.9	8.000	3
71	w.dachowe 71	267.7	241.8	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
72	w.dachowe 72	262.4	242.1	4.6	0.0	wszechkier.	77.9	8.000	3
73	w.dachowe 73	255.6	242.3	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
74	w.dachowe 74	250.5	243.1	4.6	0.0	wszechkier.	77.9	8.000	3
75	w.dachowe 75	244.7	243.1	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
76	w.dachowe 76	239.2	242.6	4.6	0.0	wszechkier.	77.9	8.000	3
77	w.dachowe 77	232.6	243.4	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
78	w.dachowe 78	227.0	243.4	4.6	0.0	wszechkier.	77.9	8.000	3
79	w.dachowe 79	222.3	243.4	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
80	w.dachowe 80	214.9	243.7	4.6	0.0	wszechkier.	77.9	8.000	3
81	w.dachowe 81	318.5	275.4	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
82	w.dachowe 82	326.4	275.6	4.6	0.0	wszechkier.	77.9	8.000	3
83	w.dachowe 83	332.7	275.1	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
84	w.dachowe 84	339.9	275.1	4.6	0.0	wszechkier.	77.9	8.000	3
85	w.dachowe 85	347.0	275.1	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
86	w.dachowe 86	354.7	274.3	4.6	0.0	wszechkier.	77.9	8.000	3
87	w.dachowe 87	361.8	274.9	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
88	w.dachowe 88	368.7	273.5	4.6	0.0	wszechkier.	77.9	8.000	3
89	w.dachowe 89	376.3	273.5	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
90	w.dachowe 90	383.5	273.0	4.6	0.0	wszechkier.	77.9	8.000	3
91	w.dachowe 91	381.6	247.6	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
92	w.dachowe 92	373.7	249.0	4.6	0.0	wszechkier.	77.9	8.000	3
93	w.dachowe 93	366.8	248.7	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
94	w.dachowe 94	359.7	249.8	4.6	0.0	wszechkier.	77.9	8.000	3
95	w.dachowe 95	352.3	249.5	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
96	w.dachowe 96	345.4	250.0	4.6	0.0	wszechkier.	77.9	8.000	3
97	w.dachowe 97	338.8	250.0	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
98	w.dachowe 98	331.2	250.8	4.6	0.0	wszechkier.	77.9	8.000	3
99	w.dachowe 99	324.0	251.1	4.6	0.0	wszechkier.	77.9	8.000 1.000	3
100	w.dachowe 100	316.4	250.3	4.6	0.0	wszechkier.	77.9	8.000	3
101	w.szczytowe 1	232.3	150.9	1.7	0.0	wszechkier.	89.9	8.000	3
102	w.szczytowe 2	234.4	151.2	1.7	0.0	wszechkier.	89.9	8.000	3
103	w.szczytowe 3	250.8	150.1	1.7	0.0	wszechkier.	89.9	8.000	3
104	w.szczytowe 4	252.9	150.1	1.7	0.0	wszechkier.	89.9	8.000	3
105	w.szczytowe 5	269.0	149.3	1.7	0.0	wszechkier.	89.9	8.000	3
106	w.szczytowe 6	271.2	149.1	1.7	0.0	wszechkier.	89.9	8.000	3
107	w.szczytowe 7	294.4	148.0	1.7	0.0	wszechkier.	89.9	8.000	3
108	w.szczytowe 8	296.5	147.7	1.7	0.0	wszechkier.	89.9	8.000	3
109	w.szczytowe 9	312.6	147.2	1.7	0.0	wszechkier.	89.9	8.000	3
110	w.szczytowe 10	315.3	146.9	1.7	0.0	wszechkier.	89.9	8.000	3
111	w.szczytowe 11	331.2	146.4	1.7	0.0	wszechkier.	89.9	8.000	3
112	w.szczytowe 12	333.3	146.4	1.7	0.0	wszechkier.	89.9	8.000	3
113	w.szczytowe 13	212.5	272.5	1.7	0.0	wszechkier.	89.9	8.000	3
114	w.szczytowe 14	212.5	266.1	1.7	0.0	wszechkier.	89.9	8.000	3
115	w.szczytowe 15	212.2	264.3	1.7	0.0	wszechkier.	89.9	8.000	3
116	w.szczytowe 16	211.2	248.7	1.7	0.0	wszechkier.	89.9	8.000	3
117	w.szczytowe 17	211.4	246.1	1.7	0.0	wszechkier.	89.9	8.000	3
118	w.szczytowe 18	210.9	240.5	1.7	0.0	wszechkier.	89.9	8.000	3
119	w.szczytowe 19	314.0	280.7	1.7	0.0	wszechkier.	89.9	8.000	3

120	w.szczytowe 20	313.4	274.1	1.7	0.0	wszechkier.	89.9	8.000	3
121	w.szczytowe 21	313.4	271.9	1.7	0.0	wszechkier.	89.9	8.000	3
122	w.szczytowe 22	312.6	256.1	1.7	0.0	wszechkier.	89.9	8.000	3
123	w.szczytowe 23	312.4	254.0	1.7	0.0	wszechkier.	89.9	8.000	3
124	w.szczytowe 24	312.1	246.8	1.7	0.0	wszechkier.	89.9	8.000	3
125	a.p 1	279.1	163.9	0.5	0.0	wszechkier.	97.0	0.500	
126	w.d.K6A 1	180.5	269.0	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
127	w.d.K6A 2	180.2	261.9	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
128	w.d.K6A 3	180.5	255.6	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
129	w.d.K6A 4	180.2	249.2	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
130	w.d.K6A 5	180.8	242.6	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
131	w.d.K6A 6	180.5	235.5	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
132	w.d.K6A 7	180.8	229.1	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
133	w.d.K6A 8	180.8	222.5	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
134	w.d.K6A 9	180.8	215.9	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
135	w.d.K6A 10	180.8	209.3	6.5	0.0	wszechkier.	71.0	8.000 1.000	3
136	w.sz.K6A 1	183.2	277.5	1.7	0.0	wszechkier.	89.0	8.000	3
137	w.sz.K6A 2	185.5	277.8	1.7	0.0	wszechkier.	89.0	8.000	3

10. Liniowe źródła hałasu

Lp	Symbol	Początek	Koniec	LAW 8hD
LAW 1hN	D0	x1 y1 z1 h1t	x2 y2 z2 h2t	
dB	dB	m m m m	m m m m	dB
1	r 1	402.2 201.4 1.0 0.0	351.8 223.3 1.0 0.0	76.0
2	r 2	351.8 223.3 1.0 0.0	347.8 145.4 1.0 0.0	77.5
3	r 3	347.8 145.4 1.0 0.0	219.9 150.6 1.0 0.0	79.7
4	r 4	219.9 150.6 1.0 0.0	221.2 227.6 1.0 0.0	77.5
5	r 5	221.2 227.6 1.0 0.0	351.5 224.4 1.0 0.0	79.8
6	r noc 1	402.2 202.2 1.0 0.0	351.5 222.8 1.0 0.0	
7	r noc 2	351.5 222.8 1.0 0.0	227.6 225.7 1.0 0.0	
8	r K6A 1	219.9 228.3 1.0 0.0	192.7 227.8 1.0 0.0	66.6
9	r K6A 2	192.7 227.8 1.0 0.0	191.6 280.9 1.0 0.0	69.5
10	r K6A 3	191.6 280.9 1.0 0.0	171.3 283.1 1.0 0.0	65.3

11. Dane do obliczenia poziomu mocy równoważnej liniowych źródeł hałasu

I opcja ruchowa	II
Lp Nazwa	Obliczony Długość
Prędkość	
poziom	
odcinka	odcinka
Moc aku- Liczba	mocy
styczna przejazdów	równoważny
opcji w czasie oceny	źródła lin.
dB	dB

1 r 1 55.0

76.0

P O R A D N I A

			10	M	Pojazdy ciężkie 19.78	96.5	13
2	r 2	78.0			P O R A D N I A		
		77.5			Pojazdy ciężkie		
			10	M	28.08	96.5	13
3	r 3	128.0			P O R A D N I A		
		79.7			Pojazdy ciężkie		
			10	M	46.08	96.5	13
4	r 4	77.0			P O R A D N I A		
		77.5			Pojazdy ciężkie		
			10	M	27.72	96.5	13
5	r 5	130.3			P O R A D N I A		
		79.8			Pojazdy ciężkie		
			10	M	46.92	96.5	13
6	r noc 1	54.7			P O R A D N I A		
			10	M	Pojazdy ciężkie 19.70	96.5	13
		78.7			P O R A N O C Y		
			10	M	Pojazdy ciężkie 19.70	96.5	3
7	r noc 2	123.9			P O R A D N I A		
			10	M	Pojazdy ciężkie 44.62	96.5	13
		82.2			P O R A N O C Y		
			10	M	Pojazdy ciężkie 44.62	96.5	3
8	r K6A 1	27.2			P O R A D N I A		
		66.6			Pojazdy ciężkie		
			10	M	9.79	96.5	3
		70.8			P O R A N O C Y		
			10	M	Pojazdy ciężkie 9.79	96.5	1
9	r K6A 2	53.1			P O R A D N I A		
		69.5			Pojazdy ciężkie		
			10	M	19.12	96.5	3
		73.8			P O R A N O C Y		
			10	M	Pojazdy ciężkie 19.12	96.5	1

10 r K6A 3 20.4				
65.3		P O R A D N I A		
	10	M	Pojazdy ciężkie 7.35	96.5 3
69.6			P O R A D N O C Y	
	10	M	Pojazdy ciężkie 7.35	96.5 1

1.0	0.8	1.0	0.8											
20	kurniki	10		213.0	250.0	283.6	246.3	283.1	234.4	212.8	238.4	0.0	4.5	0.0
1.0	0.8	1.0	0.8											
21	kurnik	6A	1	173.6	276.2	186.8	276.4	187.1	205.6	174.2	205.3	0.0	6.0	0.0
1.0	0.8	1.0	0.8											

13. Obszary zieleni

Lp	Nazwa	Wyso- kość[m]	ht	Współrzędne wierzchołków wieloboków zieleni[m]							
				x	y	x	y	x	y	x	y
1	Szpaler drzew	20.0	0.0	219.1	142.2	341.7	136.9	342.0	139.3		
2	Szpaler drzew	25.0	0.0	333.3	104.7	332.5	96.2	192.7	104.4	192.7	112.1

14. Współrzędne wierzchołków wieloboku terenu zakładu

Lp	Współrzędne wierzchołków	
	x	y
	m	m
1	314.0	369.0
2	66.0	364.0
3	134.0	160.0
4	193.0	172.0
5	193.0	105.0
6	332.0	97.0
7	335.0	135.0
8	350.0	136.0
9	355.0	213.0
10	360.0	215.0
11	402.0	198.0
12	407.0	286.0
13	418.0	285.0
14	421.0	307.0
15	354.0	311.0
16	359.0	366.0

Koniec danych

L_{Aeq} , pory dnia i nocy

Nr punktu	Współrzędne punktów			Wysokość terenu	Poziom dźwięku w porze	
	x	y	z		dnia	nocy
	m	m	m	m	dB(A)	dB(A)
1	0.0	520.0	4.0	0.0	40.3	33.0
2	20.0	520.0	4.0	0.0	40.7	33.4
3	40.0	520.0	4.0	0.0	41.1	33.7
4	60.0	520.0	4.0	0.0	41.5	34.0
5	80.0	520.0	4.0	0.0	41.8	34.3
6	100.0	520.0	4.0	0.0	42.1	34.8
7	120.0	520.0	4.0	0.0	42.4	35.1
8	140.0	520.0	4.0	0.0	42.7	35.2
9	160.0	520.0	4.0	0.0	42.9	35.4
10	180.0	520.0	4.0	0.0	43.0	35.7
11	200.0	520.0	4.0	0.0	43.1	35.9
12	220.0	520.0	4.0	0.0	43.2	36.0
13	240.0	520.0	4.0	0.0	43.3	36.2
14	260.0	520.0	4.0	0.0	43.1	36.3
15	280.0	520.0	4.0	0.0	42.8	36.3
16	300.0	520.0	4.0	0.0	42.6	36.2
17	320.0	520.0	4.0	0.0	42.4	36.1
18	340.0	520.0	4.0	0.0	42.2	36.0
19	360.0	520.0	4.0	0.0	41.8	35.8
20	380.0	520.0	4.0	0.0	41.0	35.5
21	400.0	520.0	4.0	0.0	40.8	35.1
22	420.0	520.0	4.0	0.0	40.5	35.0
23	440.0	520.0	4.0	0.0	40.1	34.6
24	460.0	520.0	4.0	0.0	39.6	34.4
25	480.0	520.0	4.0	0.0	38.8	33.9

26	500.0	520.0	4.0	0.0	38.3	33.3
27	520.0	520.0	4.0	0.0	37.9	33.0
28	540.0	520.0	4.0	0.0	37.4	32.5
29	0.0	500.0	4.0	0.0	40.3	33.0
30	20.0	500.0	4.0	0.0	40.8	33.4
31	40.0	500.0	4.0	0.0	41.2	33.7
32	60.0	500.0	4.0	0.0	41.6	34.1
33	80.0	500.0	4.0	0.0	42.0	34.5
34	100.0	500.0	4.0	0.0	42.3	34.9
35	120.0	500.0	4.0	0.0	42.7	35.3
36	140.0	500.0	4.0	0.0	43.0	35.5
37	160.0	500.0	4.0	0.0	43.2	35.7
38	180.0	500.0	4.0	0.0	43.4	36.0
39	200.0	500.0	4.0	0.0	43.5	36.2
40	220.0	500.0	4.0	0.0	43.6	36.4
41	240.0	500.0	4.0	0.0	43.6	36.6
42	260.0	500.0	4.0	0.0	43.4	36.7
43	280.0	500.0	4.0	0.0	43.1	36.7
44	300.0	500.0	4.0	0.0	43.0	36.7
45	320.0	500.0	4.0	0.0	42.9	36.5
46	340.0	500.0	4.0	0.0	42.7	36.4
47	360.0	500.0	4.0	0.0	42.0	36.3
48	380.0	500.0	4.0	0.0	41.4	35.8
49	400.0	500.0	4.0	0.0	41.2	35.6
50	420.0	500.0	4.0	0.0	40.7	35.2
51	440.0	500.0	4.0	0.0	40.2	34.9
52	460.0	500.0	4.0	0.0	39.4	34.5
53	480.0	500.0	4.0	0.0	38.9	33.9
54	500.0	500.0	4.0	0.0	38.4	33.4
55	520.0	500.0	4.0	0.0	38.0	33.1
56	540.0	500.0	4.0	0.0	37.6	32.6
57	0.0	480.0	4.0	0.0	40.5	33.2
58	20.0	480.0	4.0	0.0	41.0	33.7
59	40.0	480.0	4.0	0.0	41.6	34.1
60	60.0	480.0	4.0	0.0	42.0	34.5
61	80.0	480.0	4.0	0.0	42.4	34.9
62	100.0	480.0	4.0	0.0	42.9	35.4
63	120.0	480.0	4.0	0.0	43.4	35.8
64	140.0	480.0	4.0	0.0	43.7	36.1
65	160.0	480.0	4.0	0.0	44.0	36.3
66	180.0	480.0	4.0	0.0	44.2	36.7
67	200.0	480.0	4.0	0.0	44.3	36.9
68	220.0	480.0	4.0	0.0	44.5	37.2
69	240.0	480.0	4.0	0.0	44.4	37.4
70	260.0	480.0	4.0	0.0	44.3	37.6
71	280.0	480.0	4.0	0.0	44.0	37.7
72	300.0	480.0	4.0	0.0	43.8	37.5
73	320.0	480.0	4.0	0.0	43.6	37.5
74	340.0	480.0	4.0	0.0	43.3	37.2
75	360.0	480.0	4.0	0.0	42.7	36.9
76	380.0	480.0	4.0	0.0	42.1	36.5
77	400.0	480.0	4.0	0.0	41.7	36.2
78	420.0	480.0	4.0	0.0	41.1	35.9
79	440.0	480.0	4.0	0.0	40.5	35.3
80	460.0	480.0	4.0	0.0	39.7	34.7
81	480.0	480.0	4.0	0.0	39.1	34.2
82	500.0	480.0	4.0	0.0	38.7	33.9
83	520.0	480.0	4.0	0.0	38.3	33.2
84	540.0	480.0	4.0	0.0	37.9	32.8
85	0.0	460.0	4.0	0.0	40.7	33.6
86	20.0	460.0	4.0	0.0	41.4	34.0
87	40.0	460.0	4.0	0.0	42.0	34.5
88	60.0	460.0	4.0	0.0	42.5	34.9
89	80.0	460.0	4.0	0.0	43.1	35.5
90	100.0	460.0	4.0	0.0	43.5	36.0
91	120.0	460.0	4.0	0.0	43.9	36.4
92	140.0	460.0	4.0	0.0	44.4	36.7
93	160.0	460.0	4.0	0.0	44.7	36.9
94	180.0	460.0	4.0	0.0	45.0	37.3
95	200.0	460.0	4.0	0.0	45.1	37.6
96	220.0	460.0	4.0	0.0	45.2	37.9
97	240.0	460.0	4.0	0.0	45.2	38.2
98	260.0	460.0	4.0	0.0	44.9	38.4
99	280.0	460.0	4.0	0.0	44.8	38.5

100	300.0	460.0	4.0	0.0	44.7	38.4
101	320.0	460.0	4.0	0.0	44.6	38.3
102	340.0	460.0	4.0	0.0	44.1	38.0
103	360.0	460.0	4.0	0.0	43.4	37.6
104	380.0	460.0	4.0	0.0	42.7	37.1
105	400.0	460.0	4.0	0.0	42.0	36.9
106	420.0	460.0	4.0	0.0	41.5	36.2
107	440.0	460.0	4.0	0.0	40.6	35.7
108	460.0	460.0	4.0	0.0	39.9	35.1
109	480.0	460.0	4.0	0.0	39.4	34.6
110	500.0	460.0	4.0	0.0	38.9	34.1
111	520.0	460.0	4.0	0.0	38.5	33.4
112	540.0	460.0	4.0	0.0	37.9	32.9
113	0.0	440.0	4.0	0.0	41.0	33.9
114	20.0	440.0	4.0	0.0	41.6	34.4
115	40.0	440.0	4.0	0.0	42.2	34.9
116	60.0	440.0	4.0	0.0	42.9	35.4
117	80.0	440.0	4.0	0.0	43.6	35.8
118	100.0	440.0	4.0	0.0	44.1	36.4
119	120.0	440.0	4.0	0.0	44.6	36.9
120	140.0	440.0	4.0	0.0	45.1	37.3
121	160.0	440.0	4.0	0.0	45.4	37.5
122	180.0	440.0	4.0	0.0	45.7	37.9
123	200.0	440.0	4.0	0.0	45.8	38.2
124	220.0	440.0	4.0	0.0	46.0	38.4
125	240.0	440.0	4.0	0.0	45.9	38.7
126	260.0	440.0	4.0	0.0	45.7	39.1
127	280.0	440.0	4.0	0.0	45.6	39.1
128	300.0	440.0	4.0	0.0	45.5	38.9
129	320.0	440.0	4.0	0.0	45.4	38.8
130	340.0	440.0	4.0	0.0	44.8	38.5
131	360.0	440.0	4.0	0.0	43.9	38.2
132	380.0	440.0	4.0	0.0	43.0	37.8
133	400.0	440.0	4.0	0.0	42.5	37.4
134	420.0	440.0	4.0	0.0	41.6	36.8
135	440.0	440.0	4.0	0.0	40.8	36.0
136	460.0	440.0	4.0	0.0	40.3	35.5
137	480.0	440.0	4.0	0.0	39.7	34.8
138	500.0	440.0	4.0	0.0	39.1	34.3
139	520.0	440.0	4.0	0.0	38.6	33.8
140	540.0	440.0	4.0	0.0	38.3	33.2
141	0.0	420.0	4.0	0.0	41.3	34.1
142	20.0	420.0	4.0	0.0	41.8	34.6
143	40.0	420.0	4.0	0.0	42.5	35.1
144	60.0	420.0	4.0	0.0	43.2	35.6
145	80.0	420.0	4.0	0.0	43.9	36.1
146	100.0	420.0	4.0	0.0	44.6	36.7
147	120.0	420.0	4.0	0.0	45.2	37.2
148	140.0	420.0	4.0	0.0	45.8	37.6
149	160.0	420.0	4.0	0.0	46.1	37.7
150	180.0	420.0	4.0	0.0	46.4	38.0
151	200.0	420.0	4.0	0.0	46.6	38.3
152	220.0	420.0	4.0	0.0	46.8	38.6
153	240.0	420.0	4.0	0.0	46.6	38.9
154	260.0	420.0	4.0	0.0	46.3	39.4
155	280.0	420.0	4.0	0.0	46.3	39.5
156	300.0	420.0	4.0	0.0	46.3	39.5
157	320.0	420.0	4.0	0.0	46.4	39.3
158	340.0	420.0	4.0	0.0	45.5	39.2
159	360.0	420.0	4.0	0.0	44.2	38.6
160	380.0	420.0	4.0	0.0	43.4	38.1
161	400.0	420.0	4.0	0.0	43.0	37.9
162	420.0	420.0	4.0	0.0	41.9	37.2
163	440.0	420.0	4.0	0.0	41.2	36.4
164	460.0	420.0	4.0	0.0	40.5	35.8
165	480.0	420.0	4.0	0.0	39.9	35.2
166	500.0	420.0	4.0	0.0	39.5	34.4
167	520.0	420.0	4.0	0.0	38.9	33.9
168	540.0	420.0	4.0	0.0	39.0	33.4
169	0.0	400.0	4.0	0.0	41.3	34.1
170	20.0	400.0	4.0	0.0	42.0	34.7
171	40.0	400.0	4.0	0.0	42.7	35.3
172	60.0	400.0	4.0	0.0	43.4	35.9
173	80.0	400.0	4.0	0.0	44.3	36.4

174	100.0	400.0	4.0	0.0	45.1	37.0
175	120.0	400.0	4.0	0.0	45.8	37.7
176	140.0	400.0	4.0	0.0	46.5	38.1
177	160.0	400.0	4.0	0.0	47.0	38.3
178	180.0	400.0	4.0	0.0	47.4	38.6
179	200.0	400.0	4.0	0.0	47.6	39.0
180	220.0	400.0	4.0	0.0	47.8	39.5
181	240.0	400.0	4.0	0.0	47.6	39.9
182	260.0	400.0	4.0	0.0	47.3	40.3
183	280.0	400.0	4.0	0.0	47.4	40.4
184	300.0	400.0	4.0	0.0	47.5	40.3
185	320.0	400.0	4.0	0.0	47.4	40.1
186	340.0	400.0	4.0	0.0	45.9	39.7
187	360.0	400.0	4.0	0.0	44.7	39.2
188	380.0	400.0	4.0	0.0	44.0	38.7
189	400.0	400.0	4.0	0.0	43.0	38.1
190	420.0	400.0	4.0	0.0	42.1	37.3
191	440.0	400.0	4.0	0.0	41.3	36.7
192	460.0	400.0	4.0	0.0	40.8	35.8
193	480.0	400.0	4.0	0.0	40.1	35.1
194	500.0	400.0	4.0	0.0	39.7	34.5
195	520.0	400.0	4.0	0.0	39.5	34.0
196	540.0	400.0	4.0	0.0	39.4	33.6
197	0.0	380.0	4.0	0.0	41.4	34.2
198	20.0	380.0	4.0	0.0	42.0	34.8
199	40.0	380.0	4.0	0.0	42.8	35.5
200	60.0	380.0	4.0	0.0	43.7	36.3
201	80.0	380.0	4.0	0.0	44.6	36.9
202	100.0	380.0	4.0	0.0	45.6	37.6
203	120.0	380.0	4.0	0.0	46.6	38.3
204	140.0	380.0	4.0	0.0	47.4	38.8
205	160.0	380.0	4.0	0.0	48.1	39.1
206	180.0	380.0	4.0	0.0	48.6	39.5
207	200.0	380.0	4.0	0.0	48.8	40.0
208	220.0	380.0	4.0	0.0	49.0	40.5
209	240.0	380.0	4.0	0.0	48.5	41.0
210	260.0	380.0	4.0	0.0	48.5	41.4
211	280.0	380.0	4.0	0.0	48.8	41.5
212	300.0	380.0	4.0	0.0	48.7	41.3
213	320.0	380.0	4.0	0.0	48.6	41.2
214	340.0	380.0	4.0	0.0	46.6	40.6
215	360.0	380.0	4.0	0.0	45.6	40.1
216	380.0	380.0	4.0	0.0	44.3	39.6
217	400.0	380.0	4.0	0.0	43.5	38.7
218	420.0	380.0	4.0	0.0	42.5	37.8
219	440.0	380.0	4.0	0.0	41.7	36.9
220	460.0	380.0	4.0	0.0	41.1	36.0
221	480.0	380.0	4.0	0.0	40.5	35.2
222	500.0	380.0	4.0	0.0	40.2	34.5
223	520.0	380.0	4.0	0.0	40.2	34.4
224	540.0	380.0	4.0	0.0	39.9	34.0
225	0.0	360.0	4.0	0.0	41.5	34.2
226	20.0	360.0	4.0	0.0	42.3	34.9
227	40.0	360.0	4.0	0.0	43.0	35.6
228	60.0	360.0	4.0	0.0	43.8	36.3
243	360.0	360.0	4.0	0.0	46.7	41.3
244	380.0	360.0	4.0	0.0	45.0	40.3
245	400.0	360.0	4.0	0.0	43.8	39.1
246	420.0	360.0	4.0	0.0	42.8	38.0
247	440.0	360.0	4.0	0.0	41.9	36.9
248	460.0	360.0	4.0	0.0	41.4	36.0
249	480.0	360.0	4.0	0.0	40.9	35.3
250	500.0	360.0	4.0	0.0	40.9	35.3
251	520.0	360.0	4.0	0.0	40.5	35.1
252	540.0	360.0	4.0	0.0	40.0	34.8
253	0.0	340.0	4.0	0.0	41.3	34.3
254	20.0	340.0	4.0	0.0	42.1	35.0
255	40.0	340.0	4.0	0.0	43.1	35.7
256	60.0	340.0	4.0	0.0	44.1	36.5
271	360.0	340.0	4.0	0.0	47.4	42.9
272	380.0	340.0	4.0	0.0	44.6	39.8
273	400.0	340.0	4.0	0.0	43.2	38.2
274	420.0	340.0	4.0	0.0	42.5	37.4
275	440.0	340.0	4.0	0.0	42.0	36.7

276	460.0	340.0	4.0	0.0	41.7	36.2
277	480.0	340.0	4.0	0.0	41.7	36.4
278	500.0	340.0	4.0	0.0	41.4	36.5
279	520.0	340.0	4.0	0.0	40.9	35.8
280	540.0	340.0	4.0	0.0	40.4	35.5
281	0.0	320.0	4.0	0.0	41.4	34.4
282	20.0	320.0	4.0	0.0	42.1	35.1
283	40.0	320.0	4.0	0.0	42.9	35.7
284	60.0	320.0	4.0	0.0	43.9	36.5
285	80.0	320.0	4.0	0.0	45.2	37.5
299	360.0	320.0	4.0	0.0	49.1	45.1
304	460.0	320.0	4.0	0.0	41.7	36.4
305	480.0	320.0	4.0	0.0	43.0	38.3
306	500.0	320.0	4.0	0.0	42.4	37.8
307	520.0	320.0	4.0	0.0	41.5	36.7
308	540.0	320.0	4.0	0.0	40.9	36.0
309	0.0	300.0	4.0	0.0	41.3	34.3
310	20.0	300.0	4.0	0.0	42.0	34.8
311	40.0	300.0	4.0	0.0	42.9	35.6
312	60.0	300.0	4.0	0.0	43.8	36.1
313	80.0	300.0	4.0	0.0	44.9	37.1
331	440.0	300.0	4.0	0.0	45.2	40.7
332	460.0	300.0	4.0	0.0	44.1	39.7
333	480.0	300.0	4.0	0.0	42.5	37.7
334	500.0	300.0	4.0	0.0	41.4	36.4
335	520.0	300.0	4.0	0.0	40.7	35.6
336	540.0	300.0	4.0	0.0	40.2	35.0
337	0.0	280.0	4.0	0.0	41.4	34.3
338	20.0	280.0	4.0	0.0	42.0	34.9
339	40.0	280.0	4.0	0.0	42.8	35.5
340	60.0	280.0	4.0	0.0	43.6	36.3
341	80.0	280.0	4.0	0.0	44.6	37.2
358	420.0	280.0	4.0	0.0	47.2	42.5
359	440.0	280.0	4.0	0.0	45.8	41.1
360	460.0	280.0	4.0	0.0	40.6	35.2
361	480.0	280.0	4.0	0.0	41.8	36.7
362	500.0	280.0	4.0	0.0	41.1	35.9
363	520.0	280.0	4.0	0.0	40.3	35.1
364	540.0	280.0	4.0	0.0	39.8	34.4
365	0.0	260.0	4.0	0.0	42.1	34.3
366	20.0	260.0	4.0	0.0	42.2	34.9
367	40.0	260.0	4.0	0.0	42.5	35.5
368	60.0	260.0	4.0	0.0	42.4	36.3
369	80.0	260.0	4.0	0.0	43.2	37.2
370	100.0	260.0	4.0	0.0	43.9	38.2
386	420.0	260.0	4.0	0.0	47.5	43.6
387	440.0	260.0	4.0	0.0	45.9	41.9
388	460.0	260.0	4.0	0.0	40.6	35.3
389	480.0	260.0	4.0	0.0	37.3	31.5
391	520.0	260.0	4.0	0.0	38.5	32.8
392	540.0	260.0	4.0	0.0	39.6	34.3
393	0.0	240.0	4.0	0.0	41.6	34.6
394	20.0	240.0	4.0	0.0	42.0	35.2
395	40.0	240.0	4.0	0.0	42.4	36.0
396	60.0	240.0	4.0	0.0	42.1	36.7
397	80.0	240.0	4.0	0.0	42.8	37.7
398	100.0	240.0	4.0	0.0	43.5	38.7
414	420.0	240.0	4.0	0.0	47.4	44.2
415	440.0	240.0	4.0	0.0	45.8	42.4
416	460.0	240.0	4.0	0.0	40.6	35.6
417	480.0	240.0	4.0	0.0	37.7	31.9
418	500.0	240.0	4.0	0.0	40.2	35.2
419	520.0	240.0	4.0	0.0	39.7	34.6
420	540.0	240.0	4.0	0.0	39.5	34.4
421	0.0	220.0	4.0	0.0	40.9	34.8
422	20.0	220.0	4.0	0.0	42.0	35.3
423	40.0	220.0	4.0	0.0	42.7	36.1
424	60.0	220.0	4.0	0.0	43.4	37.1
425	80.0	220.0	4.0	0.0	43.0	38.1
426	100.0	220.0	4.0	0.0	43.8	39.2
442	420.0	220.0	4.0	0.0	47.5	44.2
443	440.0	220.0	4.0	0.0	46.1	42.5
444	460.0	220.0	4.0	0.0	40.6	35.4
445	480.0	220.0	4.0	0.0	41.7	36.9

446	500.0	220.0	4.0	0.0	40.8	35.9
447	520.0	220.0	4.0	0.0	40.0	35.0
448	540.0	220.0	4.0	0.0	39.5	34.3
449	0.0	200.0	4.0	0.0	41.1	35.1
450	20.0	200.0	4.0	0.0	41.4	35.6
451	40.0	200.0	4.0	0.0	42.4	36.4
452	60.0	200.0	4.0	0.0	43.7	37.3
453	80.0	200.0	4.0	0.0	44.4	38.4
454	100.0	200.0	4.0	0.0	44.3	39.5
455	120.0	200.0	4.0	0.0	44.9	40.6
467	360.0	200.0	4.0	0.0	52.2	48.7
468	380.0	200.0	4.0	0.0	51.6	49.4
470	420.0	200.0	4.0	0.0	47.8	44.5
471	440.0	200.0	4.0	0.0	46.5	42.7
472	460.0	200.0	4.0	0.0	43.7	39.3
473	480.0	200.0	4.0	0.0	43.2	38.8
474	500.0	200.0	4.0	0.0	42.1	37.5
475	520.0	200.0	4.0	0.0	41.4	36.5
476	540.0	200.0	4.0	0.0	40.9	36.0
477	0.0	180.0	4.0	0.0	42.2	35.2
478	20.0	180.0	4.0	0.0	42.3	35.5
479	40.0	180.0	4.0	0.0	42.9	36.3
480	60.0	180.0	4.0	0.0	43.6	37.3
481	80.0	180.0	4.0	0.0	44.9	38.4
482	100.0	180.0	4.0	0.0	45.9	39.6
483	120.0	180.0	4.0	0.0	46.6	40.5
495	360.0	180.0	4.0	0.0	51.5	47.0
496	380.0	180.0	4.0	0.0	50.6	47.0
497	400.0	180.0	4.0	0.0	48.7	45.1
498	420.0	180.0	4.0	0.0	47.1	43.4
499	440.0	180.0	4.0	0.0	45.8	41.9
500	460.0	180.0	4.0	0.0	44.8	40.7
501	480.0	180.0	4.0	0.0	43.9	39.7
502	500.0	180.0	4.0	0.0	42.8	38.3
503	520.0	180.0	4.0	0.0	42.0	37.3
504	540.0	180.0	4.0	0.0	41.2	36.3
505	0.0	160.0	4.0	0.0	42.9	35.2
506	20.0	160.0	4.0	0.0	43.4	35.6
507	40.0	160.0	4.0	0.0	44.2	36.4
508	60.0	160.0	4.0	0.0	45.0	37.3
509	80.0	160.0	4.0	0.0	46.0	38.3
510	100.0	160.0	4.0	0.0	47.0	39.5
511	120.0	160.0	4.0	0.0	48.7	40.3
512	140.0	160.0	4.0	0.0	49.8	41.6
513	160.0	160.0	4.0	0.0	50.8	42.6
514	180.0	160.0	4.0	0.0	52.6	44.3
523	360.0	160.0	4.0	0.0	51.4	45.7
524	380.0	160.0	4.0	0.0	50.6	45.7
525	400.0	160.0	4.0	0.0	49.0	43.8
528	460.0	160.0	4.0	0.0	39.5	32.2
529	480.0	160.0	4.0	0.0	43.0	37.7
530	500.0	160.0	4.0	0.0	42.9	37.7
531	520.0	160.0	4.0	0.0	42.3	37.0
532	540.0	160.0	4.0	0.0	41.6	36.2
533	0.0	140.0	4.0	0.0	42.9	35.2
534	20.0	140.0	4.0	0.0	43.5	35.5
535	40.0	140.0	4.0	0.0	44.2	36.3
536	60.0	140.0	4.0	0.0	45.1	37.2
537	80.0	140.0	4.0	0.0	46.0	38.4
538	100.0	140.0	4.0	0.0	46.9	39.3
539	120.0	140.0	4.0	0.0	47.8	39.9
540	140.0	140.0	4.0	0.0	48.9	40.9
541	160.0	140.0	4.0	0.0	51.3	41.8
542	180.0	140.0	4.0	0.0	51.9	43.1
551	360.0	140.0	4.0	0.0	57.1	43.5
552	380.0	140.0	4.0	0.0	53.8	44.2
553	400.0	140.0	4.0	0.0	51.5	42.7
559	520.0	140.0	4.0	0.0	39.9	32.5
560	540.0	140.0	4.0	0.0	42.0	35.1
561	0.0	120.0	4.0	0.0	42.6	35.1
562	20.0	120.0	4.0	0.0	43.1	35.5
563	40.0	120.0	4.0	0.0	43.8	36.1
564	60.0	120.0	4.0	0.0	44.6	37.2
565	80.0	120.0	4.0	0.0	45.5	38.1

566	100.0	120.0	4.0	0.0	46.4	38.6
567	120.0	120.0	4.0	0.0	47.4	39.4
568	140.0	120.0	4.0	0.0	49.1	40.2
569	160.0	120.0	4.0	0.0	50.7	40.9
570	180.0	120.0	4.0	0.0	52.3	41.9
578	340.0	120.0	4.0	0.0	58.0	42.3
579	360.0	120.0	4.0	0.0	55.3	41.7
580	380.0	120.0	4.0	0.0	53.1	42.7
581	400.0	120.0	4.0	0.0	51.0	41.5
582	420.0	120.0	4.0	0.0	34.5	25.7
587	520.0	120.0	4.0	0.0	39.9	32.2
588	540.0	120.0	4.0	0.0	41.3	33.4
589	0.0	100.0	4.0	0.0	42.6	35.0
590	20.0	100.0	4.0	0.0	43.2	35.5
591	40.0	100.0	4.0	0.0	43.9	36.2
592	60.0	100.0	4.0	0.0	44.7	37.0
593	80.0	100.0	4.0	0.0	45.6	37.9
594	100.0	100.0	4.0	0.0	47.4	38.3
595	120.0	100.0	4.0	0.0	47.6	38.8
596	140.0	100.0	4.0	0.0	48.9	39.5
597	160.0	100.0	4.0	0.0	49.3	40.1
598	180.0	100.0	4.0	0.0	51.0	40.8
599	200.0	100.0	4.0	0.0	52.1	39.6
600	220.0	100.0	4.0	0.0	53.7	40.6
601	240.0	100.0	4.0	0.0	55.0	40.9
602	260.0	100.0	4.0	0.0	55.5	40.9
606	340.0	100.0	4.0	0.0	54.6	40.8
607	360.0	100.0	4.0	0.0	53.2	40.3
608	380.0	100.0	4.0	0.0	51.7	41.2
609	400.0	100.0	4.0	0.0	50.2	40.5
610	420.0	100.0	4.0	0.0	48.6	38.3
611	440.0	100.0	4.0	0.0	47.1	36.3
612	460.0	100.0	4.0	0.0	44.9	35.3
613	480.0	100.0	4.0	0.0	43.6	34.6
614	500.0	100.0	4.0	0.0	42.6	34.0
615	520.0	100.0	4.0	0.0	41.8	33.4
616	540.0	100.0	4.0	0.0	41.2	33.1
617	0.0	80.0	4.0	0.0	42.5	35.0
618	20.0	80.0	4.0	0.0	43.2	35.4
619	40.0	80.0	4.0	0.0	44.0	36.1
620	60.0	80.0	4.0	0.0	45.2	36.9
621	80.0	80.0	4.0	0.0	46.5	37.6
622	100.0	80.0	4.0	0.0	46.3	38.0
623	120.0	80.0	4.0	0.0	47.2	38.4
624	140.0	80.0	4.0	0.0	48.1	38.8
625	160.0	80.0	4.0	0.0	48.4	39.3
626	180.0	80.0	4.0	0.0	49.9	39.7
627	200.0	80.0	4.0	0.0	50.7	39.6
628	220.0	80.0	4.0	0.0	51.8	40.2
629	240.0	80.0	4.0	0.0	52.6	40.3
630	260.0	80.0	4.0	0.0	53.2	40.1
631	280.0	80.0	4.0	0.0	53.2	40.0
632	300.0	80.0	4.0	0.0	53.3	40.7
633	320.0	80.0	4.0	0.0	52.8	40.3
634	340.0	80.0	4.0	0.0	52.0	40.4
635	360.0	80.0	4.0	0.0	51.3	40.3
636	380.0	80.0	4.0	0.0	50.4	40.5
637	400.0	80.0	4.0	0.0	49.3	40.0
638	420.0	80.0	4.0	0.0	48.2	38.8
639	440.0	80.0	4.0	0.0	47.1	37.5
640	460.0	80.0	4.0	0.0	46.0	36.1
641	480.0	80.0	4.0	0.0	45.1	35.2
642	500.0	80.0	4.0	0.0	44.0	34.3
643	520.0	80.0	4.0	0.0	42.9	33.6
644	540.0	80.0	4.0	0.0	41.8	32.9
645	0.0	60.0	4.0	0.0	42.7	35.0
646	20.0	60.0	4.0	0.0	43.2	35.4
647	40.0	60.0	4.0	0.0	44.7	36.0
648	60.0	60.0	4.0	0.0	44.6	36.7
649	80.0	60.0	4.0	0.0	45.1	37.2
650	100.0	60.0	4.0	0.0	45.8	37.4
651	120.0	60.0	4.0	0.0	46.6	37.7
652	140.0	60.0	4.0	0.0	47.3	38.1
653	160.0	60.0	4.0	0.0	48.0	38.4

654	180.0	60.0	4.0	0.0	48.9	38.8
655	200.0	60.0	4.0	0.0	49.7	38.7
656	220.0	60.0	4.0	0.0	50.4	39.1
657	240.0	60.0	4.0	0.0	50.9	39.2
658	260.0	60.0	4.0	0.0	51.1	39.0
659	280.0	60.0	4.0	0.0	51.4	39.1
660	300.0	60.0	4.0	0.0	51.5	39.5
661	320.0	60.0	4.0	0.0	50.9	39.3
662	340.0	60.0	4.0	0.0	50.3	39.5
663	360.0	60.0	4.0	0.0	49.7	39.3
664	380.0	60.0	4.0	0.0	49.2	39.5
665	400.0	60.0	4.0	0.0	48.4	39.1
666	420.0	60.0	4.0	0.0	47.5	38.4
667	440.0	60.0	4.0	0.0	46.6	37.4
668	460.0	60.0	4.0	0.0	45.7	36.2
669	480.0	60.0	4.0	0.0	45.0	35.6
670	500.0	60.0	4.0	0.0	44.2	34.4
671	520.0	60.0	4.0	0.0	43.4	33.6
672	540.0	60.0	4.0	0.0	42.6	33.0
673	0.0	40.0	4.0	0.0	43.0	34.8
674	20.0	40.0	4.0	0.0	43.8	35.1
675	40.0	40.0	4.0	0.0	43.4	35.8
676	60.0	40.0	4.0	0.0	44.0	36.2
677	80.0	40.0	4.0	0.0	44.8	36.7
678	100.0	40.0	4.0	0.0	45.5	37.0
679	120.0	40.0	4.0	0.0	46.2	37.1
680	140.0	40.0	4.0	0.0	46.2	37.5
681	160.0	40.0	4.0	0.0	47.3	37.8
682	180.0	40.0	4.0	0.0	47.9	38.2
683	200.0	40.0	4.0	0.0	48.6	38.2
684	220.0	40.0	4.0	0.0	49.2	38.4
685	240.0	40.0	4.0	0.0	49.6	38.2
686	260.0	40.0	4.0	0.0	49.8	37.9
687	280.0	40.0	4.0	0.0	49.9	38.0
688	300.0	40.0	4.0	0.0	50.1	38.7
689	320.0	40.0	4.0	0.0	49.7	38.4
690	340.0	40.0	4.0	0.0	49.0	38.8
691	360.0	40.0	4.0	0.0	48.5	38.5
692	380.0	40.0	4.0	0.0	48.0	38.8
693	400.0	40.0	4.0	0.0	47.4	38.4
694	420.0	40.0	4.0	0.0	46.8	37.8
695	440.0	40.0	4.0	0.0	46.1	37.1
696	460.0	40.0	4.0	0.0	45.4	36.5
697	480.0	40.0	4.0	0.0	44.7	35.7
698	500.0	40.0	4.0	0.0	44.0	34.6
699	520.0	40.0	4.0	0.0	43.3	33.7
700	540.0	40.0	4.0	0.0	42.7	33.0
701	0.0	20.0	4.0	0.0	42.7	34.7
702	20.0	20.0	4.0	0.0	42.5	35.0
703	40.0	20.0	4.0	0.0	43.0	35.3
704	60.0	20.0	4.0	0.0	43.7	35.9
705	80.0	20.0	4.0	0.0	44.4	36.3
706	100.0	20.0	4.0	0.0	45.0	36.4
707	120.0	20.0	4.0	0.0	45.5	36.8
708	140.0	20.0	4.0	0.0	45.4	37.1
709	160.0	20.0	4.0	0.0	46.6	37.4
710	180.0	20.0	4.0	0.0	47.2	37.7
711	200.0	20.0	4.0	0.0	47.7	37.9
712	220.0	20.0	4.0	0.0	48.1	38.1
713	240.0	20.0	4.0	0.0	48.4	38.1
714	260.0	20.0	4.0	0.0	48.5	38.1
715	280.0	20.0	4.0	0.0	48.7	38.1
716	300.0	20.0	4.0	0.0	48.9	38.4
717	320.0	20.0	4.0	0.0	48.5	38.3
718	340.0	20.0	4.0	0.0	48.1	38.4
719	360.0	20.0	4.0	0.0	47.5	38.2
720	380.0	20.0	4.0	0.0	47.1	38.2
721	400.0	20.0	4.0	0.0	46.6	37.9
722	420.0	20.0	4.0	0.0	46.1	37.5
723	440.0	20.0	4.0	0.0	45.4	36.8
724	460.0	20.0	4.0	0.0	44.9	36.3
725	480.0	20.0	4.0	0.0	44.3	35.8
726	500.0	20.0	4.0	0.0	43.6	34.8
727	520.0	20.0	4.0	0.0	43.0	34.0

728	540.0	20.0	4.0	0.0	42.3	33.2
729	0.0	0.0	4.0	0.0	42.0	34.5
730	20.0	0.0	4.0	0.0	42.5	34.9
731	40.0	0.0	4.0	0.0	43.0	35.2
732	60.0	0.0	4.0	0.0	43.6	35.6
733	80.0	0.0	4.0	0.0	44.1	35.8
734	100.0	0.0	4.0	0.0	44.6	36.0
735	120.0	0.0	4.0	0.0	44.8	36.2
736	140.0	0.0	4.0	0.0	45.1	36.5
737	160.0	0.0	4.0	0.0	45.9	36.8
738	180.0	0.0	4.0	0.0	46.4	37.1
739	200.0	0.0	4.0	0.0	46.9	37.3
740	220.0	0.0	4.0	0.0	47.2	37.4
741	240.0	0.0	4.0	0.0	47.3	37.2
742	260.0	0.0	4.0	0.0	47.4	37.2
743	280.0	0.0	4.0	0.0	47.6	37.6
744	300.0	0.0	4.0	0.0	47.8	37.6
745	320.0	0.0	4.0	0.0	47.4	37.6
746	340.0	0.0	4.0	0.0	47.0	37.8
747	360.0	0.0	4.0	0.0	46.7	37.6
748	380.0	0.0	4.0	0.0	46.3	37.5
749	400.0	0.0	4.0	0.0	45.8	37.3
750	420.0	0.0	4.0	0.0	45.4	37.0
751	440.0	0.0	4.0	0.0	44.9	36.5
752	460.0	0.0	4.0	0.0	44.4	36.0
753	480.0	0.0	4.0	0.0	43.9	35.6
754	500.0	0.0	4.0	0.0	43.3	34.8
755	520.0	0.0	4.0	0.0	42.7	34.0
756	540.0	0.0	4.0	0.0	42.0	33.1
1	369.7	64.5	4.0	0.0	49.8	39.3
2	527.8	227.6	4.0	0.0	39.6	34.7
3	394.6	369.2	4.0	0.0	44.0	39.3
4	336.2	381.1	4.0	0.0	47.0	40.6
5	278.0	391.9	4.0	0.0	47.9	40.9

LAeq , dzień: wartość największa poza terenem zakładu występuje w punkcie (340,120,4.0)
i wynosi 58.0 dB(A)
LAeq , noc: wartość największa poza terenem zakładu występuje w punkcie (380,200,4.0)
i wynosi 49.4 dB(A)

Koniec obliczeń