

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: CT GEA Centrum Techniki

www.geajarocin.pl tel. 666 372 659

ul. Wąska 26 63-200 Cielcza

Licencja nr CTG/63200/Sp/21 z dnia 18.06.2021/10.09.2021

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 : grunt twardy, wskaźnik gruntu G = 0

6. Punktowe źródła hałasu

Lp	Symbol	Współrzędne źródła				Rodzaj	LAW	tD	tN	Do
		x	y	z	ht	źródła				
		m	m	m	m		dB(A)	h	h	dB
1	wentylator 1	1	6.0	-19.3	8.5	0.0	wszechkier.	75.0	8.000	
2	wentylator 2	1	-2.4	-33.8	8.5	0.0	wszechkier.	75.0	8.000	

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	droga przejazdu - po	54.3	-1.8	0.0	0.0	26.5	-41.6	0.0	0.0	79.6		
2	droga przejazdu - po	26.5	-41.6	0.0	0.0	13.9	-36.2	0.0	0.0	79.6		
3	droga przejazdu - sa	59.1	-0.6	0.0	0.0	23.5	-54.3	0.0	0.0	72.8		

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 - równowazny poziom mocy akustycznej źródła w przedziale 1 najmniej korzystnej godziny nocy

8. Źródła hałasu typu budynek

Lp	Symbol	Współrzędne wierzchołków źródła [m]								ho	h1	ht
		A(x1, y1)	B(x2, y2)	C(x3, y3)	D(x4, y4)	m	m	m	m			

1 budynek hali produkc	1.8	-11.5	18.7	-22.3	4.8	-47.7	-10.9	-38.6	0.5	5.0	0.0
------------------------	-----	-------	------	-------	-----	-------	-------	-------	-----	-----	-----

8.1 Opis ścian budynków

Lp	Budynek	Wielkość	Jedn.	Ściana AB	Ściana BC	Ściana CD	Ściana DA
----	---------	----------	-------	-----------	-----------	-----------	-----------

1 budynek hali produkc	Wsp. odbicia	-	0.0	0.0	0.0	0.0	0.0
	L _{Awew} dzień	dB(A)	85.0	85.0	85.0	85.0	85.0
	Izolacyjność	dB(A)	25.0	25.0	25.0	25.0	25.0

ho,h1 - odpowiednio wysokość podstawy i wysokość źródła nad gruntem

ht - wysokość gruntu względem płaszczyzny odniesienia

L_{Awew} dzień - poziom dźwięku A wewnątrz budynku w przedziale 8 kolejnych najmniej korzystnych godzin dnia

9. Ekrany - budynki

Nr	Współrzędne punktów			Wysokość	Poziom dźwięku w porze	
punktu	x	y	z	terenu	dnia	nocy
-----	-----	-----	-----	-----	-----	-----
	m	m	m	m	dB(A)	dB(A)

10	-220.0	300.0	1.5	0.0	27.9
11	-200.0	300.0	1.5	0.0	28.1
12	-180.0	300.0	1.5	0.0	28.3
13	-160.0	300.0	1.5	0.0	28.6
14	-140.0	300.0	1.5	0.0	28.8
15	-120.0	300.0	1.5	0.0	29.0
16	-100.0	300.0	1.5	0.0	29.1
17	-80.0	300.0	1.5	0.0	29.3
18	-60.0	300.0	1.5	0.0	29.4
19	-40.0	300.0	1.5	0.0	29.5
20	-20.0	300.0	1.5	0.0	29.6
21	0.0	300.0	1.5	0.0	29.6
22	20.0	300.0	1.5	0.0	29.6
23	40.0	300.0	1.5	0.0	29.6
24	60.0	300.0	1.5	0.0	29.6
25	80.0	300.0	1.5	0.0	29.5
26	100.0	300.0	1.5	0.0	29.4
27	120.0	300.0	1.5	0.0	29.3
28	140.0	300.0	1.5	0.0	29.1
29	160.0	300.0	1.5	0.0	28.9
30	180.0	300.0	1.5	0.0	28.5
31	200.0	300.0	1.5	0.0	28.6
32	220.0	300.0	1.5	0.0	28.4
33	240.0	300.0	1.5	0.0	28.1
34	260.0	300.0	1.5	0.0	27.9
35	280.0	300.0	1.5	0.0	27.6
36	300.0	300.0	1.5	0.0	27.4
37	320.0	300.0	1.5	0.0	27.1
38	340.0	300.0	1.5	0.0	26.8
39	360.0	300.0	1.5	0.0	26.6
40	380.0	300.0	1.5	0.0	26.3

41	400.0	300.0	1.5	0.0	26.0
42	-400.0	280.0	1.5	0.0	25.7
43	-380.0	280.0	1.5	0.0	26.0
44	-360.0	280.0	1.5	0.0	26.3
45	-340.0	280.0	1.5	0.0	26.6
46	-320.0	280.0	1.5	0.0	26.8
47	-300.0	280.0	1.5	0.0	27.1
48	-280.0	280.0	1.5	0.0	27.4
49	-260.0	280.0	1.5	0.0	27.7
50	-240.0	280.0	1.5	0.0	27.9
51	-220.0	280.0	1.5	0.0	28.2
52	-200.0	280.0	1.5	0.0	28.5
53	-180.0	280.0	1.5	0.0	28.7
54	-160.0	280.0	1.5	0.0	29.0
55	-140.0	280.0	1.5	0.0	29.2
56	-120.0	280.0	1.5	0.0	29.4
57	-100.0	280.0	1.5	0.0	29.6
58	-80.0	280.0	1.5	0.0	29.7
59	-60.0	280.0	1.5	0.0	29.9
60	-40.0	280.0	1.5	0.0	30.0
61	-20.0	280.0	1.5	0.0	30.1
62	0.0	280.0	1.5	0.0	30.1
63	20.0	280.0	1.5	0.0	30.1
64	40.0	280.0	1.5	0.0	30.1
65	60.0	280.0	1.5	0.0	30.1
66	80.0	280.0	1.5	0.0	30.0
67	100.0	280.0	1.5	0.0	29.9
68	120.0	280.0	1.5	0.0	29.7
69	140.0	280.0	1.5	0.0	29.6
70	160.0	280.0	1.5	0.0	29.2
71	180.0	280.0	1.5	0.0	29.0

72	200.0	280.0	1.5	0.0	29.0
73	220.0	280.0	1.5	0.0	28.8
74	240.0	280.0	1.5	0.0	28.5
75	260.0	280.0	1.5	0.0	28.2
76	280.0	280.0	1.5	0.0	28.0
77	300.0	280.0	1.5	0.0	27.7
78	320.0	280.0	1.5	0.0	27.4
79	340.0	280.0	1.5	0.0	27.1
80	360.0	280.0	1.5	0.0	26.8
81	380.0	280.0	1.5	0.0	26.6
82	400.0	280.0	1.5	0.0	26.3
83	-400.0	260.0	1.5	0.0	25.9
84	-380.0	260.0	1.5	0.0	26.2
85	-360.0	260.0	1.5	0.0	26.5
86	-340.0	260.0	1.5	0.0	26.8
87	-320.0	260.0	1.5	0.0	27.1
88	-300.0	260.0	1.5	0.0	27.4
89	-280.0	260.0	1.5	0.0	27.7
90	-260.0	260.0	1.5	0.0	28.0
91	-240.0	260.0	1.5	0.0	28.3
92	-220.0	260.0	1.5	0.0	28.6
93	-200.0	260.0	1.5	0.0	28.8
94	-180.0	260.0	1.5	0.0	29.1
95	-160.0	260.0	1.5	0.0	29.4
96	-140.0	260.0	1.5	0.0	29.6
97	-120.0	260.0	1.5	0.0	29.8
98	-100.0	260.0	1.5	0.0	30.0
99	-80.0	260.0	1.5	0.0	30.2
100	-60.0	260.0	1.5	0.0	30.4
101	-40.0	260.0	1.5	0.0	30.5
102	-20.0	260.0	1.5	0.0	30.6

103	0.0	260.0	1.5	0.0	30.7
104	20.0	260.0	1.5	0.0	30.7
105	40.0	260.0	1.5	0.0	30.7
106	60.0	260.0	1.5	0.0	30.6
107	80.0	260.0	1.5	0.0	30.5
108	100.0	260.0	1.5	0.0	30.4
109	120.0	260.0	1.5	0.0	30.2
110	140.0	260.0	1.5	0.0	30.1
111	160.0	260.0	1.5	0.0	29.6
112	180.0	260.0	1.5	0.0	29.7
113	200.0	260.0	1.5	0.0	29.4
114	220.0	260.0	1.5	0.0	29.1
115	240.0	260.0	1.5	0.0	28.9
116	260.0	260.0	1.5	0.0	28.6
117	280.0	260.0	1.5	0.0	28.3
118	300.0	260.0	1.5	0.0	28.0
119	320.0	260.0	1.5	0.0	27.7
120	340.0	260.0	1.5	0.0	27.4
121	360.0	260.0	1.5	0.0	27.1
122	380.0	260.0	1.5	0.0	26.8
123	400.0	260.0	1.5	0.0	26.5
124	-400.0	240.0	1.5	0.0	26.1
125	-380.0	240.0	1.5	0.0	26.4
126	-360.0	240.0	1.5	0.0	26.7
127	-340.0	240.0	1.5	0.0	27.0
128	-320.0	240.0	1.5	0.0	27.4
129	-300.0	240.0	1.5	0.0	27.7
130	-280.0	240.0	1.5	0.0	28.0
131	-260.0	240.0	1.5	0.0	28.3
132	-240.0	240.0	1.5	0.0	28.6
133	-220.0	240.0	1.5	0.0	28.9

134	-200.0	240.0	1.5	0.0	29.2
135	-180.0	240.0	1.5	0.0	29.5
136	-160.0	240.0	1.5	0.0	29.8
137	-140.0	240.0	1.5	0.0	30.1
138	-120.0	240.0	1.5	0.0	30.3
139	-100.0	240.0	1.5	0.0	30.6
140	-80.0	240.0	1.5	0.0	30.8
141	-60.0	240.0	1.5	0.0	30.9
142	-40.0	240.0	1.5	0.0	31.1
143	-20.0	240.0	1.5	0.0	31.2
144	0.0	240.0	1.5	0.0	31.3
145	20.0	240.0	1.5	0.0	31.3
146	40.0	240.0	1.5	0.0	31.3
147	60.0	240.0	1.5	0.0	31.2
148	80.0	240.0	1.5	0.0	31.1
149	100.0	240.0	1.5	0.0	30.9
150	120.0	240.0	1.5	0.0	30.8
151	140.0	240.0	1.5	0.0	30.3
152	160.0	240.0	1.5	0.0	30.4
153	180.0	240.0	1.5	0.0	30.1
154	200.0	240.0	1.5	0.0	29.8
155	220.0	240.0	1.5	0.0	29.5
156	240.0	240.0	1.5	0.0	29.2
157	260.0	240.0	1.5	0.0	28.9
158	280.0	240.0	1.5	0.0	28.6
159	300.0	240.0	1.5	0.0	28.3
160	320.0	240.0	1.5	0.0	28.0
161	340.0	240.0	1.5	0.0	27.7
162	360.0	240.0	1.5	0.0	27.3
163	380.0	240.0	1.5	0.0	27.0
164	400.0	240.0	1.5	0.0	26.7

165	-400.0	220.0	1.5	0.0	26.3
166	-380.0	220.0	1.5	0.0	26.6
167	-360.0	220.0	1.5	0.0	27.0
168	-340.0	220.0	1.5	0.0	27.3
169	-320.0	220.0	1.5	0.0	27.6
170	-300.0	220.0	1.5	0.0	27.9
171	-280.0	220.0	1.5	0.0	28.3
172	-260.0	220.0	1.5	0.0	28.6
173	-240.0	220.0	1.5	0.0	28.9
174	-220.0	220.0	1.5	0.0	29.3
175	-200.0	220.0	1.5	0.0	29.6
176	-180.0	220.0	1.5	0.0	29.9
177	-160.0	220.0	1.5	0.0	30.2
178	-140.0	220.0	1.5	0.0	30.5
179	-120.0	220.0	1.5	0.0	30.8
180	-100.0	220.0	1.5	0.0	31.1
181	-80.0	220.0	1.5	0.0	31.3
182	-60.0	220.0	1.5	0.0	31.5
183	-40.0	220.0	1.5	0.0	31.7
184	-20.0	220.0	1.5	0.0	31.8
185	0.0	220.0	1.5	0.0	31.9
186	20.0	220.0	1.5	0.0	31.9
187	40.0	220.0	1.5	0.0	31.9
188	60.0	220.0	1.5	0.0	31.8
189	80.0	220.0	1.5	0.0	31.7
190	100.0	220.0	1.5	0.0	31.5
191	120.0	220.0	1.5	0.0	31.3
192	140.0	220.0	1.5	0.0	30.9
193	160.0	220.0	1.5	0.0	30.9
194	180.0	220.0	1.5	0.0	30.6
195	200.0	220.0	1.5	0.0	30.3

196	220.0	220.0	1.5	0.0	29.9
197	240.0	220.0	1.5	0.0	29.6
198	260.0	220.0	1.5	0.0	29.3
199	280.0	220.0	1.5	0.0	28.9
200	300.0	220.0	1.5	0.0	28.6
201	320.0	220.0	1.5	0.0	28.3
202	340.0	220.0	1.5	0.0	27.9
203	360.0	220.0	1.5	0.0	27.6
204	380.0	220.0	1.5	0.0	27.3
205	400.0	220.0	1.5	0.0	26.9
206	-400.0	200.0	1.5	0.0	26.2
207	-380.0	200.0	1.5	0.0	26.8
208	-360.0	200.0	1.5	0.0	27.2
209	-340.0	200.0	1.5	0.0	27.5
210	-320.0	200.0	1.5	0.0	27.8
211	-300.0	200.0	1.5	0.0	28.2
212	-280.0	200.0	1.5	0.0	28.5
213	-260.0	200.0	1.5	0.0	28.9
214	-240.0	200.0	1.5	0.0	29.2
215	-220.0	200.0	1.5	0.0	29.6
216	-200.0	200.0	1.5	0.0	30.0
217	-180.0	200.0	1.5	0.0	30.3
218	-160.0	200.0	1.5	0.0	30.7
219	-140.0	200.0	1.5	0.0	31.0
220	-120.0	200.0	1.5	0.0	31.3
221	-100.0	200.0	1.5	0.0	31.6
222	-80.0	200.0	1.5	0.0	31.9
223	-60.0	200.0	1.5	0.0	32.1
224	-40.0	200.0	1.5	0.0	32.3
225	-20.0	200.0	1.5	0.0	32.5
226	0.0	200.0	1.5	0.0	32.6

227	20.0	200.0	1.5	0.0	32.6
228	40.0	200.0	1.5	0.0	32.6
229	60.0	200.0	1.5	0.0	32.5
230	80.0	200.0	1.5	0.0	32.3
231	100.0	200.0	1.5	0.0	32.1
232	120.0	200.0	1.5	0.0	31.7
233	140.0	200.0	1.5	0.0	31.7
234	160.0	200.0	1.5	0.0	31.4
235	180.0	200.0	1.5	0.0	31.1
236	200.0	200.0	1.5	0.0	30.7
237	220.0	200.0	1.5	0.0	30.4
238	240.0	200.0	1.5	0.0	30.0
239	260.0	200.0	1.5	0.0	29.6
240	280.0	200.0	1.5	0.0	29.3
241	300.0	200.0	1.5	0.0	28.9
242	320.0	200.0	1.5	0.0	28.5
243	340.0	200.0	1.5	0.0	28.2
244	360.0	200.0	1.5	0.0	27.8
245	380.0	200.0	1.5	0.0	27.5
246	400.0	200.0	1.5	0.0	27.1
247	-400.0	180.0	1.5	0.0	26.3
248	-380.0	180.0	1.5	0.0	26.7
249	-360.0	180.0	1.5	0.0	27.0
250	-340.0	180.0	1.5	0.0	27.7
251	-320.0	180.0	1.5	0.0	28.1
252	-300.0	180.0	1.5	0.0	28.4
253	-280.0	180.0	1.5	0.0	28.8
254	-260.0	180.0	1.5	0.0	29.2
255	-240.0	180.0	1.5	0.0	29.6
256	-220.0	180.0	1.5	0.0	29.9
257	-200.0	180.0	1.5	0.0	30.3

258	-180.0	180.0	1.5	0.0	30.7
259	-160.0	180.0	1.5	0.0	31.1
260	-140.0	180.0	1.5	0.0	31.5
261	-120.0	180.0	1.5	0.0	31.9
262	-100.0	180.0	1.5	0.0	32.2
263	-80.0	180.0	1.5	0.0	32.5
264	-60.0	180.0	1.5	0.0	32.8
265	-40.0	180.0	1.5	0.0	33.0
266	-20.0	180.0	1.5	0.0	33.2
267	0.0	180.0	1.5	0.0	33.3
268	20.0	180.0	1.5	0.0	33.3
269	40.0	180.0	1.5	0.0	33.3
270	60.0	180.0	1.5	0.0	33.2
271	80.0	180.0	1.5	0.0	33.0
272	100.0	180.0	1.5	0.0	32.8
273	120.0	180.0	1.5	0.0	32.3
274	140.0	180.0	1.5	0.0	32.3
275	160.0	180.0	1.5	0.0	31.9
276	180.0	180.0	1.5	0.0	31.6
277	200.0	180.0	1.5	0.0	31.2
278	220.0	180.0	1.5	0.0	30.8
279	240.0	180.0	1.5	0.0	30.4
280	260.0	180.0	1.5	0.0	30.0
281	280.0	180.0	1.5	0.0	29.6
282	300.0	180.0	1.5	0.0	29.2
283	320.0	180.0	1.5	0.0	28.8
284	340.0	180.0	1.5	0.0	28.4
285	360.0	180.0	1.5	0.0	28.1
286	380.0	180.0	1.5	0.0	27.7
287	400.0	180.0	1.5	0.0	27.3
288	-400.0	160.0	1.5	0.0	26.9

289	-380.0	160.0	1.5	0.0	26.9
290	-360.0	160.0	1.5	0.0	27.2
291	-340.0	160.0	1.5	0.0	27.6
292	-320.0	160.0	1.5	0.0	28.0
293	-300.0	160.0	1.5	0.0	28.7
294	-280.0	160.0	1.5	0.0	29.1
295	-260.0	160.0	1.5	0.0	29.5
296	-240.0	160.0	1.5	0.0	29.9
297	-220.0	160.0	1.5	0.0	30.3
298	-200.0	160.0	1.5	0.0	30.7
299	-180.0	160.0	1.5	0.0	31.2
300	-160.0	160.0	1.5	0.0	31.6
301	-140.0	160.0	1.5	0.0	32.0
302	-120.0	160.0	1.5	0.0	32.4
303	-100.0	160.0	1.5	0.0	32.8
304	-80.0	160.0	1.5	0.0	33.1
305	-60.0	160.0	1.5	0.0	33.5
306	-40.0	160.0	1.5	0.0	33.7
307	-20.0	160.0	1.5	0.0	33.9
308	0.0	160.0	1.5	0.0	34.1
309	20.0	160.0	1.5	0.0	34.1
310	40.0	160.0	1.5	0.0	34.1
311	60.0	160.0	1.5	0.0	33.9
312	80.0	160.0	1.5	0.0	33.8
313	100.0	160.0	1.5	0.0	33.3
314	120.0	160.0	1.5	0.0	33.2
315	140.0	160.0	1.5	0.0	32.9
316	160.0	160.0	1.5	0.0	32.5
317	180.0	160.0	1.5	0.0	32.1
318	200.0	160.0	1.5	0.0	31.6
319	220.0	160.0	1.5	0.0	31.2

320	240.0	160.0	1.5	0.0	30.8
321	260.0	160.0	1.5	0.0	30.3
322	280.0	160.0	1.5	0.0	29.9
323	300.0	160.0	1.5	0.0	29.5
324	320.0	160.0	1.5	0.0	29.1
325	340.0	160.0	1.5	0.0	28.7
326	360.0	160.0	1.5	0.0	28.3
327	380.0	160.0	1.5	0.0	27.9
328	400.0	160.0	1.5	0.0	27.5
329	-400.0	140.0	1.5	0.0	27.0
330	-380.0	140.0	1.5	0.0	27.4
331	-360.0	140.0	1.5	0.0	27.8
332	-340.0	140.0	1.5	0.0	27.8
333	-320.0	140.0	1.5	0.0	28.2
334	-300.0	140.0	1.5	0.0	28.6
335	-280.0	140.0	1.5	0.0	29.3
336	-260.0	140.0	1.5	0.0	29.7
337	-240.0	140.0	1.5	0.0	30.2
338	-220.0	140.0	1.5	0.0	30.6
339	-200.0	140.0	1.5	0.0	31.1
340	-180.0	140.0	1.5	0.0	31.6
341	-160.0	140.0	1.5	0.0	32.0
342	-140.0	140.0	1.5	0.0	32.5
343	-120.0	140.0	1.5	0.0	33.0
344	-100.0	140.0	1.5	0.0	33.4
345	-80.0	140.0	1.5	0.0	33.8
346	-60.0	140.0	1.5	0.0	34.2
347	-40.0	140.0	1.5	0.0	34.5
348	-20.0	140.0	1.5	0.0	34.8
349	0.0	140.0	1.5	0.0	35.0
350	20.0	140.0	1.5	0.0	35.0

351	40.0	140.0	1.5	0.0	35.0
352	60.0	140.0	1.5	0.0	34.8
353	80.0	140.0	1.5	0.0	34.6
354	100.0	140.0	1.5	0.0	34.1
355	120.0	140.0	1.5	0.0	33.9
356	140.0	140.0	1.5	0.0	33.5
357	160.0	140.0	1.5	0.0	33.1
358	180.0	140.0	1.5	0.0	32.6
359	200.0	140.0	1.5	0.0	32.1
360	220.0	140.0	1.5	0.0	31.6
361	240.0	140.0	1.5	0.0	31.1
362	260.0	140.0	1.5	0.0	30.7
363	280.0	140.0	1.5	0.0	30.2
364	300.0	140.0	1.5	0.0	29.8
365	320.0	140.0	1.5	0.0	29.3
366	340.0	140.0	1.5	0.0	28.9
367	360.0	140.0	1.5	0.0	28.5
368	380.0	140.0	1.5	0.0	28.1
369	400.0	140.0	1.5	0.0	27.7
370	-400.0	120.0	1.5	0.0	27.2
371	-380.0	120.0	1.5	0.0	27.6
372	-360.0	120.0	1.5	0.0	27.9
373	-340.0	120.0	1.5	0.0	28.3
374	-320.0	120.0	1.5	0.0	28.8
375	-300.0	120.0	1.5	0.0	28.8
376	-280.0	120.0	1.5	0.0	29.2
377	-260.0	120.0	1.5	0.0	29.7
378	-240.0	120.0	1.5	0.0	30.5
379	-220.0	120.0	1.5	0.0	31.0
380	-200.0	120.0	1.5	0.0	31.5
381	-180.0	120.0	1.5	0.0	32.0

382	-160.0	120.0	1.5	0.0	32.5
383	-140.0	120.0	1.5	0.0	33.0
384	-120.0	120.0	1.5	0.0	33.5
385	-100.0	120.0	1.5	0.0	34.1
386	-80.0	120.0	1.5	0.0	34.6
387	-60.0	120.0	1.5	0.0	35.0
388	-40.0	120.0	1.5	0.0	35.4
389	-20.0	120.0	1.5	0.0	35.7
390	0.0	120.0	1.5	0.0	35.9
391	20.0	120.0	1.5	0.0	36.0
392	40.0	120.0	1.5	0.0	36.0
393	60.0	120.0	1.5	0.0	35.8
394	80.0	120.0	1.5	0.0	35.3
395	100.0	120.0	1.5	0.0	35.1
396	120.0	120.0	1.5	0.0	34.7
397	140.0	120.0	1.5	0.0	34.2
398	160.0	120.0	1.5	0.0	33.6
399	180.0	120.0	1.5	0.0	33.1
400	200.0	120.0	1.5	0.0	32.6
401	220.0	120.0	1.5	0.0	32.0
402	240.0	120.0	1.5	0.0	31.5
403	260.0	120.0	1.5	0.0	31.0
404	280.0	120.0	1.5	0.0	30.5
405	300.0	120.0	1.5	0.0	30.0
406	320.0	120.0	1.5	0.0	29.6
407	340.0	120.0	1.5	0.0	29.1
408	360.0	120.0	1.5	0.0	28.7
409	380.0	120.0	1.5	0.0	28.3
410	400.0	120.0	1.5	0.0	27.9
411	-400.0	100.0	1.5	0.0	27.3
412	-380.0	100.0	1.5	0.0	27.7

413	-360.0	100.0	1.5	0.0	28.1
414	-340.0	100.0	1.5	0.0	28.5
415	-320.0	100.0	1.5	0.0	28.9
416	-300.0	100.0	1.5	0.0	29.4
417	-280.0	100.0	1.5	0.0	29.8
418	-260.0	100.0	1.5	0.0	29.9
419	-240.0	100.0	1.5	0.0	30.4
420	-220.0	100.0	1.5	0.0	30.9
421	-200.0	100.0	1.5	0.0	31.8
422	-180.0	100.0	1.5	0.0	32.4
423	-160.0	100.0	1.5	0.0	32.9
424	-140.0	100.0	1.5	0.0	33.5
425	-120.0	100.0	1.5	0.0	34.1
426	-100.0	100.0	1.5	0.0	34.7
427	-80.0	100.0	1.5	0.0	35.3
428	-60.0	100.0	1.5	0.0	35.9
429	-40.0	100.0	1.5	0.0	36.4
430	-20.0	100.0	1.5	0.0	36.8
431	0.0	100.0	1.5	0.0	37.0
432	20.0	100.0	1.5	0.0	37.1
433	40.0	100.0	1.5	0.0	37.1
434	60.0	100.0	1.5	0.0	36.8
435	80.0	100.0	1.5	0.0	36.3
436	100.0	100.0	1.5	0.0	36.0
437	120.0	100.0	1.5	0.0	35.4
438	140.0	100.0	1.5	0.0	34.8
439	160.0	100.0	1.5	0.0	34.2
440	180.0	100.0	1.5	0.0	33.6
441	200.0	100.0	1.5	0.0	33.0
442	220.0	100.0	1.5	0.0	32.4
443	240.0	100.0	1.5	0.0	31.8

444	260.0	100.0	1.5	0.0	31.3
445	280.0	100.0	1.5	0.0	30.8
446	300.0	100.0	1.5	0.0	30.3
447	320.0	100.0	1.5	0.0	29.8
448	340.0	100.0	1.5	0.0	29.3
449	360.0	100.0	1.5	0.0	28.9
450	380.0	100.0	1.5	0.0	28.4
451	400.0	100.0	1.5	0.0	28.0
452	-400.0	80.0	1.5	0.0	27.4
453	-380.0	80.0	1.5	0.0	27.8
454	-360.0	80.0	1.5	0.0	28.2
455	-340.0	80.0	1.5	0.0	28.7
456	-320.0	80.0	1.5	0.0	29.1
457	-300.0	80.0	1.5	0.0	29.6
458	-280.0	80.0	1.5	0.0	30.0
459	-260.0	80.0	1.5	0.0	30.5
460	-240.0	80.0	1.5	0.0	31.1
461	-220.0	80.0	1.5	0.0	31.2
462	-200.0	80.0	1.5	0.0	31.8
463	-180.0	80.0	1.5	0.0	32.4
464	-160.0	80.0	1.5	0.0	33.3
465	-140.0	80.0	1.5	0.0	34.0
466	-120.0	80.0	1.5	0.0	34.7
467	-100.0	80.0	1.5	0.0	35.4
468	-80.0	80.0	1.5	0.0	36.1
469	-60.0	80.0	1.5	0.0	36.8
470	-40.0	80.0	1.5	0.0	37.5
471	-20.0	80.0	1.5	0.0	38.0
472	0.0	80.0	1.5	0.0	38.3
473	20.0	80.0	1.5	0.0	38.5
474	40.0	80.0	1.5	0.0	38.3

475	60.0	80.0	1.5	0.0	37.9
476	80.0	80.0	1.5	0.0	37.6
477	100.0	80.0	1.5	0.0	37.0
478	120.0	80.0	1.5	0.0	36.3
479	140.0	80.0	1.5	0.0	35.5
480	160.0	80.0	1.5	0.0	34.8
481	180.0	80.0	1.5	0.0	34.1
482	200.0	80.0	1.5	0.0	33.4
483	220.0	80.0	1.5	0.0	32.8
484	240.0	80.0	1.5	0.0	32.1
485	260.0	80.0	1.5	0.0	31.6
486	280.0	80.0	1.5	0.0	31.0
487	300.0	80.0	1.5	0.0	30.5
488	320.0	80.0	1.5	0.0	30.0
489	340.0	80.0	1.5	0.0	29.5
490	360.0	80.0	1.5	0.0	29.0
491	380.0	80.0	1.5	0.0	28.6
492	400.0	80.0	1.5	0.0	28.1
493	-400.0	60.0	1.5	0.0	27.5
494	-380.0	60.0	1.5	0.0	27.9
495	-360.0	60.0	1.5	0.0	28.3
496	-340.0	60.0	1.5	0.0	28.8
497	-320.0	60.0	1.5	0.0	29.2
498	-300.0	60.0	1.5	0.0	29.7
499	-280.0	60.0	1.5	0.0	30.2
500	-260.0	60.0	1.5	0.0	30.7
501	-240.0	60.0	1.5	0.0	31.3
502	-220.0	60.0	1.5	0.0	31.9
503	-200.0	60.0	1.5	0.0	32.5
504	-180.0	60.0	1.5	0.0	32.7
505	-160.0	60.0	1.5	0.0	33.4

506	-140.0	60.0	1.5	0.0	34.2
507	-120.0	60.0	1.5	0.0	35.3
508	-100.0	60.0	1.5	0.0	36.1
509	-80.0	60.0	1.5	0.0	37.0
510	-60.0	60.0	1.5	0.0	37.9
511	-40.0	60.0	1.5	0.0	38.7
512	-20.0	60.0	1.5	0.0	39.4
513	0.0	60.0	1.5	0.0	39.9
514	20.0	60.0	1.5	0.0	40.1
515	40.0	60.0	1.5	0.0	39.9
516	60.0	60.0	1.5	0.0	39.3
517	80.0	60.0	1.5	0.0	38.8
518	100.0	60.0	1.5	0.0	38.0
519	120.0	60.0	1.5	0.0	37.1
520	140.0	60.0	1.5	0.0	36.2
521	160.0	60.0	1.5	0.0	35.3
522	180.0	60.0	1.5	0.0	34.5
523	200.0	60.0	1.5	0.0	33.8
524	220.0	60.0	1.5	0.0	33.1
525	240.0	60.0	1.5	0.0	32.4
526	260.0	60.0	1.5	0.0	31.8
527	280.0	60.0	1.5	0.0	31.2
528	300.0	60.0	1.5	0.0	30.7
529	320.0	60.0	1.5	0.0	30.1
530	340.0	60.0	1.5	0.0	29.6
531	360.0	60.0	1.5	0.0	29.2
532	380.0	60.0	1.5	0.0	28.7
533	400.0	60.0	1.5	0.0	28.3
534	-400.0	40.0	1.5	0.0	27.6
535	-380.0	40.0	1.5	0.0	28.0
536	-360.0	40.0	1.5	0.0	28.4

537	-340.0	40.0	1.5	0.0	28.9
538	-320.0	40.0	1.5	0.0	29.3
539	-300.0	40.0	1.5	0.0	29.8
540	-280.0	40.0	1.5	0.0	30.3
541	-260.0	40.0	1.5	0.0	30.9
542	-240.0	40.0	1.5	0.0	31.5
543	-220.0	40.0	1.5	0.0	32.1
544	-200.0	40.0	1.5	0.0	32.7
545	-180.0	40.0	1.5	0.0	33.4
546	-160.0	40.0	1.5	0.0	34.2
547	-140.0	40.0	1.5	0.0	34.6
548	-120.0	40.0	1.5	0.0	35.5
549	-100.0	40.0	1.5	0.0	36.5
550	-80.0	40.0	1.5	0.0	37.8
551	-60.0	40.0	1.5	0.0	39.0
552	-40.0	40.0	1.5	0.0	40.1
553	-20.0	40.0	1.5	0.0	41.1
554	0.0	40.0	1.5	0.0	41.8
555	20.0	40.0	1.5	0.0	42.0
556	40.0	40.0	1.5	0.0	41.6
557	60.0	40.0	1.5	0.0	41.2
558	80.0	40.0	1.5	0.0	40.2
559	100.0	40.0	1.5	0.0	39.0
560	120.0	40.0	1.5	0.0	37.9
561	140.0	40.0	1.5	0.0	36.8
562	160.0	40.0	1.5	0.0	35.8
563	180.0	40.0	1.5	0.0	34.9
564	200.0	40.0	1.5	0.0	34.1
565	220.0	40.0	1.5	0.0	33.4
566	240.0	40.0	1.5	0.0	32.7
567	260.0	40.0	1.5	0.0	32.0

568	280.0	40.0	1.5	0.0	31.4
569	300.0	40.0	1.5	0.0	30.8
570	320.0	40.0	1.5	0.0	30.3
571	340.0	40.0	1.5	0.0	29.7
572	360.0	40.0	1.5	0.0	29.2
573	380.0	40.0	1.5	0.0	28.1
574	400.0	40.0	1.5	0.0	27.6
575	-400.0	20.0	1.5	0.0	27.7
576	-380.0	20.0	1.5	0.0	28.1
577	-360.0	20.0	1.5	0.0	28.5
578	-340.0	20.0	1.5	0.0	29.0
579	-320.0	20.0	1.5	0.0	29.4
580	-300.0	20.0	1.5	0.0	29.9
581	-280.0	20.0	1.5	0.0	30.5
582	-260.0	20.0	1.5	0.0	31.0
583	-240.0	20.0	1.5	0.0	31.6
584	-220.0	20.0	1.5	0.0	32.3
585	-200.0	20.0	1.5	0.0	32.9
586	-180.0	20.0	1.5	0.0	33.7
587	-160.0	20.0	1.5	0.0	34.5
588	-140.0	20.0	1.5	0.0	35.4
589	-120.0	20.0	1.5	0.0	36.0
590	-100.0	20.0	1.5	0.0	37.1
591	-80.0	20.0	1.5	0.0	38.4
592	-60.0	20.0	1.5	0.0	39.4
593	-40.0	20.0	1.5	0.0	40.7
594	-20.0	20.0	1.5	0.0	42.3
595	0.0	20.0	1.5	0.0	43.4
596	20.0	20.0	1.5	0.0	44.4
597	40.0	20.0	1.5	0.0	44.2
598	60.0	20.0	1.5	0.0	43.5

599	80.0	20.0	1.5	0.0	41.7
600	100.0	20.0	1.5	0.0	40.0
601	120.0	20.0	1.5	0.0	38.6
602	140.0	20.0	1.5	0.0	37.4
603	160.0	20.0	1.5	0.0	36.3
604	180.0	20.0	1.5	0.0	35.3
605	200.0	20.0	1.5	0.0	34.4
606	220.0	20.0	1.5	0.0	33.6
607	240.0	20.0	1.5	0.0	32.9
608	260.0	20.0	1.5	0.0	32.1
609	280.0	20.0	1.5	0.0	31.5
610	300.0	20.0	1.5	0.0	30.2
611	320.0	20.0	1.5	0.0	29.1
612	340.0	20.0	1.5	0.0	27.9
613	360.0	20.0	1.5	0.0	27.0
614	380.0	20.0	1.5	0.0	25.8
615	400.0	20.0	1.5	0.0	25.2
616	-400.0	0.0	1.5	0.0	27.7
617	-380.0	0.0	1.5	0.0	28.1
618	-360.0	0.0	1.5	0.0	28.6
619	-340.0	0.0	1.5	0.0	29.0
620	-320.0	0.0	1.5	0.0	29.5
621	-300.0	0.0	1.5	0.0	30.0
622	-280.0	0.0	1.5	0.0	30.5
623	-260.0	0.0	1.5	0.0	31.1
624	-240.0	0.0	1.5	0.0	31.7
625	-220.0	0.0	1.5	0.0	32.4
626	-200.0	0.0	1.5	0.0	33.1
627	-180.0	0.0	1.5	0.0	33.8
628	-160.0	0.0	1.5	0.0	34.7
629	-140.0	0.0	1.5	0.0	35.6

630	-120.0	0.0	1.5	0.0	36.7
631	-100.0	0.0	1.5	0.0	38.1
632	-80.0	0.0	1.5	0.0	39.0
633	-60.0	0.0	1.5	0.0	40.4
634	-40.0	0.0	1.5	0.0	41.7
635	-20.0	0.0	1.5	0.0	44.7
636	0.0	0.0	1.5	0.0	47.4
637	20.0	0.0	1.5	0.0	48.0
638	40.0	0.0	1.5	0.0	48.8
639	60.0	0.0	1.5	0.0	49.6
640	80.0	0.0	1.5	0.0	43.2
641	100.0	0.0	1.5	0.0	40.8
642	120.0	0.0	1.5	0.0	39.2
643	140.0	0.0	1.5	0.0	37.7
644	160.0	0.0	1.5	0.0	36.6
645	180.0	0.0	1.5	0.0	35.5
646	200.0	0.0	1.5	0.0	33.8
647	220.0	0.0	1.5	0.0	31.4
648	240.0	0.0	1.5	0.0	29.6
649	260.0	0.0	1.5	0.0	28.5
650	280.0	0.0	1.5	0.0	27.7
651	300.0	0.0	1.5	0.0	27.0
652	320.0	0.0	1.5	0.0	26.1
653	340.0	0.0	1.5	0.0	25.5
654	360.0	0.0	1.5	0.0	24.3
655	380.0	0.0	1.5	0.0	23.7
656	400.0	0.0	1.5	0.0	23.2
657	-400.0	-20.0	1.5	0.0	27.4
658	-380.0	-20.0	1.5	0.0	27.8
659	-360.0	-20.0	1.5	0.0	28.3
660	-340.0	-20.0	1.5	0.0	28.8

661	-320.0	-20.0	1.5	0.0	29.2
662	-300.0	-20.0	1.5	0.0	30.0
663	-280.0	-20.0	1.5	0.0	30.6
664	-260.0	-20.0	1.5	0.0	31.2
665	-240.0	-20.0	1.5	0.0	31.8
666	-220.0	-20.0	1.5	0.0	32.4
667	-200.0	-20.0	1.5	0.0	33.1
668	-180.0	-20.0	1.5	0.0	33.9
669	-160.0	-20.0	1.5	0.0	34.8
670	-140.0	-20.0	1.5	0.0	35.8
671	-120.0	-20.0	1.5	0.0	36.9
672	-100.0	-20.0	1.5	0.0	38.3
673	-80.0	-20.0	1.5	0.0	39.3
674	-60.0	-20.0	1.5	0.0	40.6
675	-40.0	-20.0	1.5	0.0	42.9
676	-20.0	-20.0	1.5	0.0	47.7
678	20.0	-20.0	1.5	0.0	56.8
679	40.0	-20.0	1.5	0.0	57.2
680	60.0	-20.0	1.5	0.0	48.2
681	80.0	-20.0	1.5	0.0	43.7
682	100.0	-20.0	1.5	0.0	41.2
683	120.0	-20.0	1.5	0.0	39.4
684	140.0	-20.0	1.5	0.0	37.9
686	180.0	-20.0	1.5	0.0	19.3
687	200.0	-20.0	1.5	0.0	21.0
688	220.0	-20.0	1.5	0.0	21.7
689	240.0	-20.0	1.5	0.0	22.0
690	260.0	-20.0	1.5	0.0	22.0
691	280.0	-20.0	1.5	0.0	21.8
692	300.0	-20.0	1.5	0.0	21.5
693	320.0	-20.0	1.5	0.0	21.1

694	340.0	-20.0	1.5	0.0	20.8
695	360.0	-20.0	1.5	0.0	20.4
696	380.0	-20.0	1.5	0.0	20.5
697	400.0	-20.0	1.5	0.0	22.4
698	-400.0	-40.0	1.5	0.0	26.6
699	-380.0	-40.0	1.5	0.0	27.0
700	-360.0	-40.0	1.5	0.0	27.5
701	-340.0	-40.0	1.5	0.0	27.9
702	-320.0	-40.0	1.5	0.0	28.4
703	-300.0	-40.0	1.5	0.0	28.9
704	-280.0	-40.0	1.5	0.0	29.4
705	-260.0	-40.0	1.5	0.0	30.0
706	-240.0	-40.0	1.5	0.0	30.6
707	-220.0	-40.0	1.5	0.0	31.2
708	-200.0	-40.0	1.5	0.0	31.9
709	-180.0	-40.0	1.5	0.0	32.7
710	-160.0	-40.0	1.5	0.0	33.5
711	-140.0	-40.0	1.5	0.0	34.4
712	-120.0	-40.0	1.5	0.0	35.0
713	-100.0	-40.0	1.5	0.0	34.5
714	-80.0	-40.0	1.5	0.0	28.5
715	-60.0	-40.0	1.5	0.0	40.6
716	-40.0	-40.0	1.5	0.0	44.1
717	-20.0	-40.0	1.5	0.0	50.3
719	20.0	-40.0	1.5	0.0	62.1
720	40.0	-40.0	1.5	0.0	51.6
721	60.0	-40.0	1.5	0.0	46.3
722	80.0	-40.0	1.5	0.0	43.2
723	100.0	-40.0	1.5	0.0	41.1
724	120.0	-40.0	1.5	0.0	39.3
726	160.0	-40.0	1.5	0.0	15.7

727	180.0	-40.0	1.5	0.0	18.5
728	200.0	-40.0	1.5	0.0	19.9
729	220.0	-40.0	1.5	0.0	20.6
730	240.0	-40.0	1.5	0.0	20.8
731	260.0	-40.0	1.5	0.0	20.8
732	280.0	-40.0	1.5	0.0	20.6
733	300.0	-40.0	1.5	0.0	20.2
734	320.0	-40.0	1.5	0.0	19.9
735	340.0	-40.0	1.5	0.0	19.6
736	360.0	-40.0	1.5	0.0	19.2
737	380.0	-40.0	1.5	0.0	18.9
738	400.0	-40.0	1.5	0.0	19.2
739	-400.0	-60.0	1.5	0.0	25.9
740	-380.0	-60.0	1.5	0.0	26.3
741	-360.0	-60.0	1.5	0.0	26.7
742	-340.0	-60.0	1.5	0.0	27.1
743	-320.0	-60.0	1.5	0.0	27.4
744	-300.0	-60.0	1.5	0.0	27.2
745	-280.0	-60.0	1.5	0.0	27.6
746	-260.0	-60.0	1.5	0.0	28.1
747	-240.0	-60.0	1.5	0.0	28.6
748	-220.0	-60.0	1.5	0.0	29.1
749	-200.0	-60.0	1.5	0.0	28.8
750	-180.0	-60.0	1.5	0.0	28.5
751	-160.0	-60.0	1.5	0.0	28.4
752	-140.0	-60.0	1.5	0.0	25.9
753	-120.0	-60.0	1.5	0.0	25.3
754	-100.0	-60.0	1.5	0.0	22.7
758	-20.0	-60.0	1.5	0.0	45.0
759	0.0	-60.0	1.5	0.0	48.2
760	20.0	-60.0	1.5	0.0	49.0

761	40.0	-60.0	1.5	0.0	46.9
762	60.0	-60.0	1.5	0.0	44.0
763	80.0	-60.0	1.5	0.0	42.0
764	100.0	-60.0	1.5	0.0	40.5
765	120.0	-60.0	1.5	0.0	39.0
767	160.0	-60.0	1.5	0.0	17.8
768	180.0	-60.0	1.5	0.0	19.6
769	200.0	-60.0	1.5	0.0	20.4
770	220.0	-60.0	1.5	0.0	20.7
771	240.0	-60.0	1.5	0.0	20.7
772	260.0	-60.0	1.5	0.0	20.5
773	280.0	-60.0	1.5	0.0	20.2
774	300.0	-60.0	1.5	0.0	19.9
775	320.0	-60.0	1.5	0.0	19.6
776	340.0	-60.0	1.5	0.0	19.2
777	360.0	-60.0	1.5	0.0	18.9
778	380.0	-60.0	1.5	0.0	18.5
779	400.0	-60.0	1.5	0.0	22.6
780	-400.0	-80.0	1.5	0.0	24.6
781	-380.0	-80.0	1.5	0.0	24.9
782	-360.0	-80.0	1.5	0.0	25.3
783	-340.0	-80.0	1.5	0.0	25.7
784	-320.0	-80.0	1.5	0.0	25.1
785	-300.0	-80.0	1.5	0.0	25.5
786	-280.0	-80.0	1.5	0.0	25.8
787	-260.0	-80.0	1.5	0.0	25.2
788	-240.0	-80.0	1.5	0.0	25.3
789	-220.0	-80.0	1.5	0.0	25.5
790	-200.0	-80.0	1.5	0.0	25.9
791	-180.0	-80.0	1.5	0.0	26.4
792	-160.0	-80.0	1.5	0.0	24.0

793	-140.0	-80.0	1.5	0.0	23.9
794	-120.0	-80.0	1.5	0.0	22.8
800	0.0	-80.0	1.5	0.0	44.3
801	20.0	-80.0	1.5	0.0	44.5
802	40.0	-80.0	1.5	0.0	43.6
803	60.0	-80.0	1.5	0.0	42.4
804	80.0	-80.0	1.5	0.0	40.8
805	100.0	-80.0	1.5	0.0	39.4
807	140.0	-80.0	1.5	0.0	16.5
808	160.0	-80.0	1.5	0.0	19.1
809	180.0	-80.0	1.5	0.0	20.2
810	200.0	-80.0	1.5	0.0	20.7
811	220.0	-80.0	1.5	0.0	20.8
812	240.0	-80.0	1.5	0.0	20.7
813	260.0	-80.0	1.5	0.0	20.4
814	280.0	-80.0	1.5	0.0	20.1
815	300.0	-80.0	1.5	0.0	19.7
816	320.0	-80.0	1.5	0.0	19.4
817	340.0	-80.0	1.5	0.0	19.0
818	360.0	-80.0	1.5	0.0	18.6
819	380.0	-80.0	1.5	0.0	19.1
820	400.0	-80.0	1.5	0.0	24.1
821	-400.0	-100.0	1.5	0.0	23.2
822	-380.0	-100.0	1.5	0.0	23.5
823	-360.0	-100.0	1.5	0.0	22.9
824	-340.0	-100.0	1.5	0.0	23.0
825	-320.0	-100.0	1.5	0.0	23.0
826	-300.0	-100.0	1.5	0.0	23.2
827	-280.0	-100.0	1.5	0.0	23.4
828	-260.0	-100.0	1.5	0.0	23.8
829	-240.0	-100.0	1.5	0.0	24.2

830	-220.0	-100.0	1.5	0.0	24.7
831	-200.0	-100.0	1.5	0.0	25.2
832	-180.0	-100.0	1.5	0.0	23.6
833	-160.0	-100.0	1.5	0.0	22.9
834	-140.0	-100.0	1.5	0.0	22.7
835	-120.0	-100.0	1.5	0.0	20.0
836	-100.0	-100.0	1.5	0.0	16.9
840	-20.0	-100.0	1.5	0.0	38.0
841	0.0	-100.0	1.5	0.0	41.8
842	20.0	-100.0	1.5	0.0	41.9
843	40.0	-100.0	1.5	0.0	41.5
844	60.0	-100.0	1.5	0.0	40.7
845	80.0	-100.0	1.5	0.0	39.7
846	100.0	-100.0	1.5	0.0	38.6
848	140.0	-100.0	1.5	0.0	18.0
849	160.0	-100.0	1.5	0.0	19.6
850	180.0	-100.0	1.5	0.0	20.6
851	200.0	-100.0	1.5	0.0	20.9
852	220.0	-100.0	1.5	0.0	20.9
853	240.0	-100.0	1.5	0.0	20.7
854	260.0	-100.0	1.5	0.0	20.3
855	280.0	-100.0	1.5	0.0	20.0
856	300.0	-100.0	1.5	0.0	19.6
857	320.0	-100.0	1.5	0.0	19.2
858	340.0	-100.0	1.5	0.0	18.9
859	360.0	-100.0	1.5	0.0	18.5
860	380.0	-100.0	1.5	0.0	22.9
861	400.0	-100.0	1.5	0.0	25.9
862	-400.0	-120.0	1.5	0.0	21.3
863	-380.0	-120.0	1.5	0.0	21.5
864	-360.0	-120.0	1.5	0.0	21.7

865	-340.0	-120.0	1.5	0.0	21.9
866	-320.0	-120.0	1.5	0.0	22.1
867	-300.0	-120.0	1.5	0.0	22.5
868	-280.0	-120.0	1.5	0.0	22.8
869	-260.0	-120.0	1.5	0.0	23.2
870	-240.0	-120.0	1.5	0.0	23.7
871	-220.0	-120.0	1.5	0.0	24.2
872	-200.0	-120.0	1.5	0.0	24.7
873	-180.0	-120.0	1.5	0.0	22.1
874	-160.0	-120.0	1.5	0.0	22.1
875	-140.0	-120.0	1.5	0.0	22.3
876	-120.0	-120.0	1.5	0.0	22.2
877	-100.0	-120.0	1.5	0.0	21.4
881	-20.0	-120.0	1.5	0.0	37.8
882	0.0	-120.0	1.5	0.0	39.9
883	20.0	-120.0	1.5	0.0	40.0
884	40.0	-120.0	1.5	0.0	39.7
885	60.0	-120.0	1.5	0.0	39.2
886	80.0	-120.0	1.5	0.0	38.5
887	100.0	-120.0	1.5	0.0	37.6
888	120.0	-120.0	1.5	0.0	36.1
889	140.0	-120.0	1.5	0.0	21.7
890	160.0	-120.0	1.5	0.0	20.2
891	180.0	-120.0	1.5	0.0	20.6
892	200.0	-120.0	1.5	0.0	20.6
893	220.0	-120.0	1.5	0.0	20.9
894	240.0	-120.0	1.5	0.0	20.5
895	260.0	-120.0	1.5	0.0	20.2
896	280.0	-120.0	1.5	0.0	19.9
897	300.0	-120.0	1.5	0.0	19.5
898	320.0	-120.0	1.5	0.0	19.1

899	340.0	-120.0	1.5	0.0	18.8
900	360.0	-120.0	1.5	0.0	19.9
901	380.0	-120.0	1.5	0.0	24.3
902	400.0	-120.0	1.5	0.0	25.9
903	-400.0	-140.0	1.5	0.0	20.6
904	-380.0	-140.0	1.5	0.0	20.8
905	-360.0	-140.0	1.5	0.0	21.2
906	-340.0	-140.0	1.5	0.0	21.4
907	-320.0	-140.0	1.5	0.0	21.8
908	-300.0	-140.0	1.5	0.0	22.1
909	-280.0	-140.0	1.5	0.0	22.4
910	-260.0	-140.0	1.5	0.0	22.8
911	-240.0	-140.0	1.5	0.0	23.3
912	-220.0	-140.0	1.5	0.0	23.8
913	-200.0	-140.0	1.5	0.0	21.7
914	-180.0	-140.0	1.5	0.0	21.5
915	-160.0	-140.0	1.5	0.0	21.9
916	-140.0	-140.0	1.5	0.0	22.3
917	-120.0	-140.0	1.5	0.0	22.6
918	-100.0	-140.0	1.5	0.0	20.9
922	-20.0	-140.0	1.5	0.0	37.5
923	0.0	-140.0	1.5	0.0	38.3
924	20.0	-140.0	1.5	0.0	38.4
925	40.0	-140.0	1.5	0.0	38.2
926	60.0	-140.0	1.5	0.0	37.9
927	80.0	-140.0	1.5	0.0	37.3
928	100.0	-140.0	1.5	0.0	36.7
929	120.0	-140.0	1.5	0.0	36.0
930	140.0	-140.0	1.5	0.0	34.6
931	160.0	-140.0	1.5	0.0	28.2
932	180.0	-140.0	1.5	0.0	21.3

933	200.0	-140.0	1.5	0.0	20.7
934	220.0	-140.0	1.5	0.0	20.5
935	240.0	-140.0	1.5	0.0	20.4
936	260.0	-140.0	1.5	0.0	20.1
937	280.0	-140.0	1.5	0.0	19.7
938	300.0	-140.0	1.5	0.0	19.4
939	320.0	-140.0	1.5	0.0	19.0
940	340.0	-140.0	1.5	0.0	18.6
941	360.0	-140.0	1.5	0.0	24.7
942	380.0	-140.0	1.5	0.0	26.2
943	400.0	-140.0	1.5	0.0	26.3
944	-400.0	-160.0	1.5	0.0	20.2
945	-380.0	-160.0	1.5	0.0	20.5
946	-360.0	-160.0	1.5	0.0	20.8
947	-340.0	-160.0	1.5	0.0	21.1
948	-320.0	-160.0	1.5	0.0	21.4
949	-300.0	-160.0	1.5	0.0	21.7
950	-280.0	-160.0	1.5	0.0	22.1
951	-260.0	-160.0	1.5	0.0	22.5
952	-240.0	-160.0	1.5	0.0	22.9
953	-220.0	-160.0	1.5	0.0	22.8
954	-200.0	-160.0	1.5	0.0	21.8
955	-180.0	-160.0	1.5	0.0	21.2
956	-160.0	-160.0	1.5	0.0	21.6
957	-140.0	-160.0	1.5	0.0	22.0
958	-120.0	-160.0	1.5	0.0	22.1
963	-20.0	-160.0	1.5	0.0	28.6
964	0.0	-160.0	1.5	0.0	37.0
965	20.0	-160.0	1.5	0.0	37.1
966	40.0	-160.0	1.5	0.0	37.0
967	60.0	-160.0	1.5	0.0	36.7

968	80.0	-160.0	1.5	0.0	36.3
969	100.0	-160.0	1.5	0.0	35.8
970	120.0	-160.0	1.5	0.0	35.2
971	140.0	-160.0	1.5	0.0	34.2
972	160.0	-160.0	1.5	0.0	33.3
973	180.0	-160.0	1.5	0.0	31.3
974	200.0	-160.0	1.5	0.0	24.3
975	220.0	-160.0	1.5	0.0	20.6
976	240.0	-160.0	1.5	0.0	20.1
977	260.0	-160.0	1.5	0.0	19.6
978	280.0	-160.0	1.5	0.0	19.6
979	300.0	-160.0	1.5	0.0	19.2
980	320.0	-160.0	1.5	0.0	18.8
981	340.0	-160.0	1.5	0.0	20.0
982	360.0	-160.0	1.5	0.0	24.5
983	380.0	-160.0	1.5	0.0	26.0
984	400.0	-160.0	1.5	0.0	26.1
985	-400.0	-180.0	1.5	0.0	19.9
986	-380.0	-180.0	1.5	0.0	20.2
987	-360.0	-180.0	1.5	0.0	20.5
988	-340.0	-180.0	1.5	0.0	20.9
989	-320.0	-180.0	1.5	0.0	21.2
990	-300.0	-180.0	1.5	0.0	21.5
991	-280.0	-180.0	1.5	0.0	21.8
992	-260.0	-180.0	1.5	0.0	22.2
993	-240.0	-180.0	1.5	0.0	22.6
994	-220.0	-180.0	1.5	0.0	23.1
995	-200.0	-180.0	1.5	0.0	22.9
996	-180.0	-180.0	1.5	0.0	22.8
997	-160.0	-180.0	1.5	0.0	21.4
998	-140.0	-180.0	1.5	0.0	21.6

999	-120.0	-180.0	1.5	0.0	18.2
1000	-100.0	-180.0	1.5	0.0	15.7
1004	-20.0	-180.0	1.5	0.0	35.1
1005	0.0	-180.0	1.5	0.0	35.9
1006	20.0	-180.0	1.5	0.0	36.0
1007	40.0	-180.0	1.5	0.0	35.9
1008	60.0	-180.0	1.5	0.0	35.7
1009	80.0	-180.0	1.5	0.0	35.4
1010	100.0	-180.0	1.5	0.0	34.9
1011	120.0	-180.0	1.5	0.0	34.5
1012	140.0	-180.0	1.5	0.0	34.0
1013	160.0	-180.0	1.5	0.0	32.9
1014	180.0	-180.0	1.5	0.0	32.2
1015	200.0	-180.0	1.5	0.0	30.5
1016	220.0	-180.0	1.5	0.0	25.6
1017	240.0	-180.0	1.5	0.0	22.4
1018	260.0	-180.0	1.5	0.0	19.7
1019	280.0	-180.0	1.5	0.0	19.1
1020	300.0	-180.0	1.5	0.0	18.7
1021	320.0	-180.0	1.5	0.0	18.7
1022	340.0	-180.0	1.5	0.0	24.7
1023	360.0	-180.0	1.5	0.0	26.3
1024	380.0	-180.0	1.5	0.0	26.4
1025	400.0	-180.0	1.5	0.0	26.0
1026	-400.0	-200.0	1.5	0.0	19.7
1027	-380.0	-200.0	1.5	0.0	20.0
1028	-360.0	-200.0	1.5	0.0	20.3
1029	-340.0	-200.0	1.5	0.0	20.6
1030	-320.0	-200.0	1.5	0.0	21.0
1031	-300.0	-200.0	1.5	0.0	21.3
1032	-280.0	-200.0	1.5	0.0	21.6

1033	-260.0	-200.0	1.5	0.0	21.9
1034	-240.0	-200.0	1.5	0.0	22.3
1035	-220.0	-200.0	1.5	0.0	22.7
1036	-200.0	-200.0	1.5	0.0	23.2
1037	-180.0	-200.0	1.5	0.0	23.6
1038	-160.0	-200.0	1.5	0.0	22.9
1039	-140.0	-200.0	1.5	0.0	21.0
1040	-120.0	-200.0	1.5	0.0	20.2
1041	-100.0	-200.0	1.5	0.0	19.3
1042	-80.0	-200.0	1.5	0.0	16.4
1043	-60.0	-200.0	1.5	0.0	19.4
1044	-40.0	-200.0	1.5	0.0	26.1
1045	-20.0	-200.0	1.5	0.0	34.4
1046	0.0	-200.0	1.5	0.0	34.9
1047	20.0	-200.0	1.5	0.0	35.0
1048	40.0	-200.0	1.5	0.0	34.9
1049	60.0	-200.0	1.5	0.0	34.7
1050	80.0	-200.0	1.5	0.0	34.5
1051	100.0	-200.0	1.5	0.0	34.1
1052	120.0	-200.0	1.5	0.0	33.8
1053	140.0	-200.0	1.5	0.0	33.3
1054	160.0	-200.0	1.5	0.0	32.8
1055	180.0	-200.0	1.5	0.0	31.8
1056	200.0	-200.0	1.5	0.0	31.3
1057	220.0	-200.0	1.5	0.0	29.7
1058	240.0	-200.0	1.5	0.0	26.6
1059	260.0	-200.0	1.5	0.0	22.8
1060	280.0	-200.0	1.5	0.0	21.0
1061	300.0	-200.0	1.5	0.0	18.7
1062	320.0	-200.0	1.5	0.0	20.4
1063	340.0	-200.0	1.5	0.0	24.4

1064	360.0	-200.0	1.5	0.0	26.1
1065	380.0	-200.0	1.5	0.0	26.2
1066	400.0	-200.0	1.5	0.0	25.8
1	256.4	12.7	1.5	0.0	31.6

LAeq , dzień: wartość największa występuje w punkcie (20,-40,1.5)

i wynosi 62.1 dB(A)

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

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

Tłumienie przez grunt wg wzoru 9 PN-ISO 9613.

Koniec obliczeń