

grav_processing.py Output

Generated on: 2025-11-07 11:00:20

```
# =====
Cell 0: File header

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        @org: National Institute of Oceanography and Applied Geophysics - OGS

# =====
Cell 1: Import base modules

import os
import numpy as np
import matplotlib.pyplot as plt
import copy
import importlib

s = os.sep
rld = importlib.reload

# =====
Cell 2: Import local modules

from modules import utils as utl
from modules import gravmag_processing as gmp
from modules import gravmag_analysis as gma
from modules import raster_tools as rt
from modules import TePrismTess as Te
from modules import plot_tools as pt

# =====
Cell 3: Set local dir. paths

p = {
'cwd' : '/media/luigi/T7/Documents/Work/TD_CRS_2024_2025/Manfreadonia/codes',
'data' : '/media/luigi/T7/Documents/Work/TD_CRS_2024_2025/Manfreadonia/data',
'fig' : '/media/luigi/T7/Documents/Work/TD_CRS_2024_2025/Manfreadonia/figures',
'home' : '/media/luigi/T7/Documents/Work/TD_CRS_2024_2025/Manfreadonia'
}

# =====
Cell 4: Set study area limits

l = {
'g' : [15.85, 16.85, 41.15, 41.85]
'm' : [571324.3460414864, 653574.8723960763, 4555756.8540703785, 4634776.6053700475]
'x0' : 15.85
'x1' : 16.85
'y0' : 41.15
'y1' : 41.85
}

# =====
Cell 5: Import and process gravity data

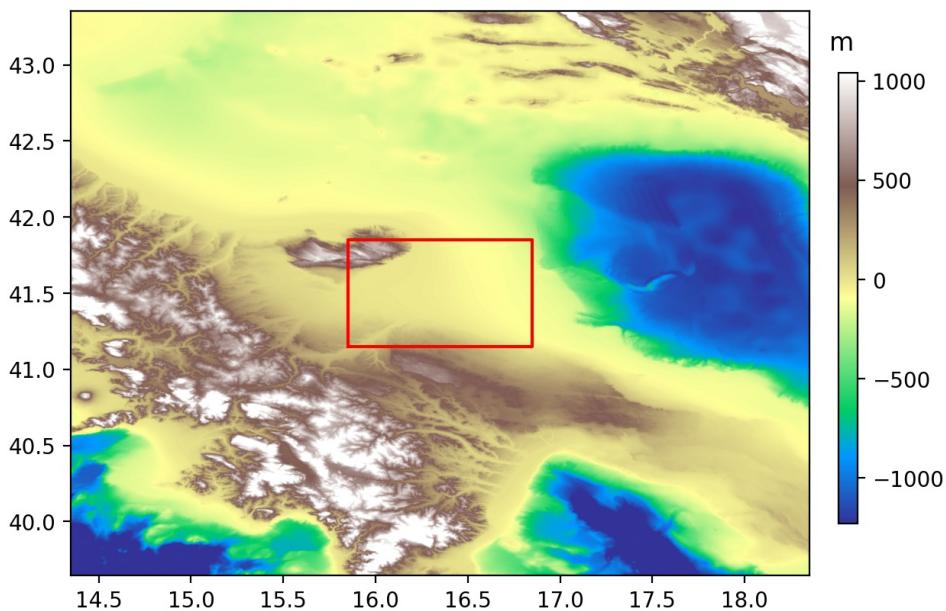
Imported gravity data files:
- Sea Bottom 1960:
/media/luigi/T7/Documents/Work/TD_CRS_2024_2025/Manfreadonia/data/ogs/grav/grav_OGS60.csv
- Satellite altimetry derived gravity:
/media/luigi/T7/Documents/Work/TD_CRS_2024_2025/Manfreadonia/data/ss/grav_ss.txt

# =====
Cell 6: Transform grav coordinates from geographic to metric

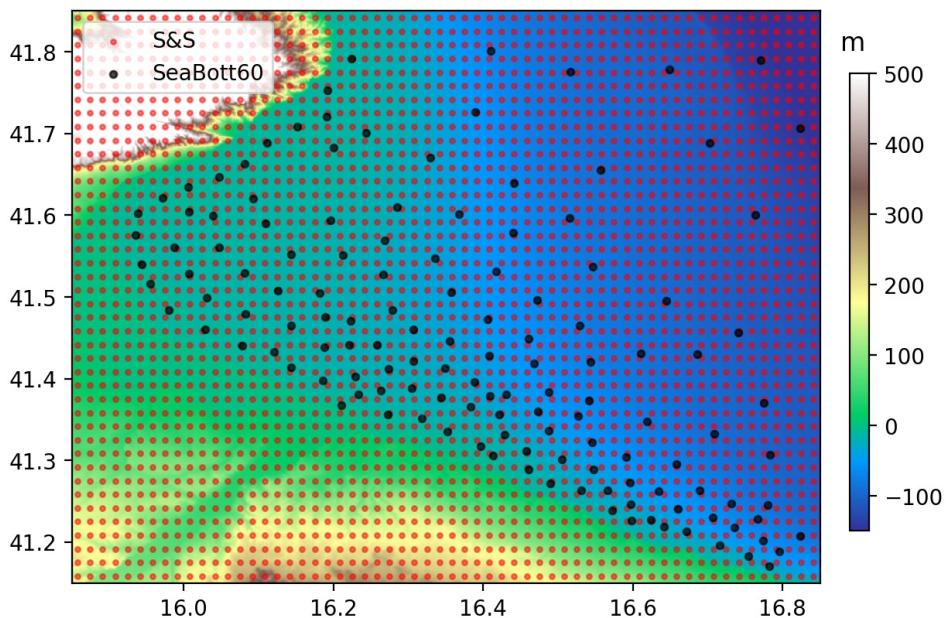
# =====
Cell 7: Load/create DTBM (Digital Terrein-Bathymetric Model)

# =====
Cell 8: Plot Data
```

```
['right', 0.01, 0.07, 0.025, 0.8]
Min:-2496.75 Max:2227.0 Mean:-95.411367 Std:568.566542
```



```
['right', 0.01, 0.07, 0.025, 0.8]
Min:-222.725052 Max:1000.739258 Mean:17.103473 Std:173.799093
```



```
# =====
Cell 9: Fix sea bottm station depth
```

```
# =====
Cell 10: Free water correction/anomaly for sea bottom data 1960
```

```
LOADING/CREATING DTM_1 ...
Add coast band
LOADING/CREATING DTM_2 ...
Computational Parameters, gs1 gs2 R1 R2 :
100 2586 9050 182293
LOOP STARTED ( #cpu: 1 ) ...
=====
===== Computational parameters [m]:
R1 = 9050 | R2 = 182293 | gs1 = 100 | gs2 = 2586
=====
st_num      Lon      Lat      h_st      h_dtm      te_near      te_far      te_tot      st_type
0   16.795532  41.188150     -52.00     -54.20    -0.18225    -0.08864    -0.27089          2  0.73 %
```

1	16.773864	41.201761	-59.50	-60.35	-0.09277	-0.08551	-0.17829	2	1.46 %
2	16.781919	41.170649	-31.95	-31.95	-0.10995	-0.09375	-0.20371	2	2.19 %
3	16.716640	41.195927	-34.20	-34.95	-0.04232	-0.08909	-0.13141	2	2.92 %
4	16.671915	41.213428	-34.00	-33.90	-0.04839	-0.08708	-0.13547	2	3.65 %
5	16.624136	41.227039	-30.00	-30.90	-0.09882	-0.08804	-0.18686	2	4.38 %
6	16.660249	41.240650	-48.50	-49.00	-0.06222	-0.07642	-0.13864	2	5.11 %
7	16.706639	41.229817	-57.00	-56.20	-0.10219	-0.07749	-0.17968	2	5.84 %
8	16.736084	41.217317	-58.10	-57.75	-0.03673	-0.08063	-0.11735	2	6.57 %
9	16.641359	41.218983	-28.80	-30.45	-0.12846	-0.08899	-0.21746	2	7.3 %
10	16.754974	41.183149	-35.80	-34.20	-0.16135	-0.09125	-0.25260	2	8.03 %
11	16.824144	41.207317	-78.90	-79.85	-0.09058	-0.08557	-0.17615	2	8.76 %
12	16.766641	41.228428	-72.70	-75.00	-0.14205	-0.07564	-0.21769	2	9.49 %
13	16.732195	41.247039	-71.50	-73.60	-0.14863	-0.06852	-0.21714	2	10.22 %
14	16.688860	41.262872	-68.40	-65.85	-0.30197	-0.06349	-0.36547	2	10.95 %
15	16.596912	41.246483	-34.50	-34.95	-0.04001	-0.08168	-0.12169	2	11.68 %
16	16.634136	41.262594	-52.20	-52.90	-0.04766	-0.06753	-0.11519	2	12.41 %
17	16.658303	41.295650	-73.00	-72.45	-0.07224	-0.05053	-0.12277	2	13.14 %
18	16.618858	41.347873	-79.50	-76.45	-0.33442	-0.03352	-0.36794	2	13.87 %
19	16.591079	41.303706	-56.00	-56.85	-0.06125	-0.04964	-0.11088	2	14.6 %
20	16.566356	41.263428	-34.50	-35.30	-0.08279	-0.07551	-0.15830	2	15.33 %
21	16.505798	41.300650	-34.70	-33.75	-0.10637	-0.05982	-0.16619	2	16.06 %
22	16.487742	41.336483	-40.60	-41.45	-0.04634	-0.04168	-0.08802	2	16.79 %
23	16.541077	41.373151	-65.20	-63.80	-0.16342	-0.02672	-0.19014	2	17.52 %
24	16.430795	41.380373	-40.00	-41.40	-0.09588	-0.02691	-0.12280	2	18.25 %
25	16.428573	41.331206	-24.70	-23.05	-0.14605	-0.04816	-0.19422	2	18.98 %
26	16.413572	41.305650	-12.40	-13.85	-0.09915	-0.06455	-0.16370	2	19.71 %
27	16.460796	41.288428	-17.00	-17.95	-0.08082	-0.07220	-0.15302	2	20.44 %
28	16.489408	41.271761	-16.00	-18.05	-0.17056	-0.08029	-0.25085	2	21.17 %
29	16.530799	41.262872	-24.70	-25.10	-0.04059	-0.08112	-0.12171	2	21.9 %
30	16.572467	41.238983	-23.20	-24.50	-0.11003	-0.08985	-0.19988	2	22.63 %
31	16.598579	41.225928	-23.30	-24.20	-0.10461	-0.09343	-0.19804	2	23.36 %
32	16.596357	41.272872	-46.80	-46.25	-0.04765	-0.06613	-0.11377	2	24.09 %
33	16.547188	41.288428	-40.10	-40.10	-0.01464	-0.06233	-0.07697	2	24.82 %
34	16.545244	41.322039	-52.00	-51.60	-0.07416	-0.04465	-0.11881	2	25.55 %
35	16.487742	41.383429	-56.00	-55.30	-0.09522	-0.02469	-0.11991	2	26.28 %
36	16.457463	41.311761	-27.00	-24.15	-0.36054	-0.05763	-0.41817	2	27.01 %
37	16.421072	41.356484	-30.20	-32.60	-0.16045	-0.03599	-0.19644	2	27.74 %
38	16.473019	41.359540	-45.20	-44.25	-0.12644	-0.03277	-0.15921	2	28.47 %
39	16.527465	41.354540	-56.10	-57.20	-0.07483	-0.03243	-0.10726	2	29.2 %
40	16.467741	41.418429	-53.60	-55.70	-0.14206	-0.01748	-0.15953	2	29.93 %
41	16.407738	41.428429	-43.60	-43.65	-0.00296	-0.01626	-0.01921	2	30.66 %

42	16.355514	41.445651	-37.00	-35.10	-0.21082	-0.01512	-0.22593	2	31.39 %
43	16.306346	41.459818	-30.40	-30.05	-0.04721	-0.01601	-0.06321	2	32.12 %
44	16.306346	41.421207	-25.80	-26.10	-0.01552	-0.02010	-0.03562	2	32.85 %
45	16.304679	41.388429	-22.80	-22.20	-0.06549	-0.02787	-0.09335	2	33.58 %
46	16.317735	41.350928	-16.60	-16.60	-0.00928	-0.04355	-0.05283	2	34.31 %
47	16.344402	41.376762	-23.20	-23.70	-0.03566	-0.03064	-0.06630	2	35.04 %
48	16.352181	41.335650	-16.60	-15.95	-0.10085	-0.05075	-0.15159	2	35.77 %
49	16.397183	41.316761	-15.00	-16.25	-0.08209	-0.05899	-0.14108	2	36.5 %
50	16.383293	41.365651	-27.40	-27.20	-0.02706	-0.03393	-0.06100	2	37.23 %
51	16.388293	41.395373	-33.60	-33.70	-0.01347	-0.02373	-0.03720	2	37.96 %
52	16.349402	41.412873	-30.10	-30.10	-0.00103	-0.02024	-0.02126	2	38.69 %
53	16.272456	41.356483	-10.40	-10.80	-0.02279	-0.04052	-0.06331	2	39.42 %
54	16.273289	41.412040	-22.60	-22.35	-0.03030	-0.02258	-0.05288	2	40.15 %
55	16.257733	41.441484	-23.80	-23.10	-0.07680	-0.01984	-0.09664	2	40.88 %
56	16.233010	41.380372	-15.00	-15.60	-0.03966	-0.03166	-0.07133	2	41.61 %
57	16.210231	41.367594	-5.85	-5.85	-0.05420	-0.03544	-0.08965	2	42.34 %
58	16.229398	41.402040	-19.60	-18.50	-0.11689	-0.02615	-0.14303	2	43.07 %
59	16.263844	41.385372	-18.90	-19.05	-0.01406	-0.02985	-0.04391	2	43.8 %
60	16.188285	41.438151	-18.80	-18.90	-0.00869	-0.02310	-0.03179	2	44.53 %
61	16.185508	41.397594	-15.70	-14.70	-0.10862	-0.02813	-0.13675	2	45.26 %
62	16.222731	41.470373	-22.30	-21.60	-0.07405	-0.02167	-0.09572	2	45.99 %
63	16.279123	41.483430	-27.80	-27.35	-0.04837	-0.01821	-0.06658	2	46.72 %
64	16.406071	41.472041	-46.80	-47.65	-0.06406	-0.01224	-0.07630	2	47.45 %
65	16.460518	41.449263	-57.60	-57.60	-0.01640	-0.01327	-0.02967	2	48.18 %
66	16.409405	41.378707	-36.25	-36.25	-0.00873	-0.02823	-0.03697	2	48.91 %
67	16.143007	41.413706	-13.20	-12.95	-0.04539	-0.02568	-0.07107	2	49.64 %
68	16.120783	41.432595	-13.70	-13.60	-0.01011	-0.02579	-0.03590	2	50.36 %
69	16.078281	41.440651	-12.00	-11.45	-0.07355	-0.02934	-0.10289	2	51.09 %
70	16.029113	41.460095	-11.80	-11.10	-0.07480	-0.03787	-0.11267	2	51.82 %
71	15.980222	41.483429	-11.20	-11.00	-0.02959	-0.05556	-0.08515	2	52.55 %
72	16.031057	41.498984	-14.00	-15.05	-0.07086	-0.05604	-0.12690	2	53.28 %
73	16.082726	41.478984	-16.20	-14.90	-0.14398	-0.03754	-0.18152	2	54.01 %
74	16.143007	41.464540	-17.40	-17.00	-0.04583	-0.02789	-0.07372	2	54.74 %
75	16.181341	41.504262	-19.20	-19.20	-0.00007	-0.03169	-0.03177	2	55.47 %
76	16.221343	41.441207	-21.20	-21.00	-0.02304	-0.02139	-0.04443	2	56.2 %
77	16.188841	41.475651	-20.00	-20.40	-0.02571	-0.02465	-0.05036	2	56.93 %
78	15.971888	41.620930	-12.10	-10.00	-0.39475	-0.38963	-0.78438	2	57.66 %
79	16.039390	41.598985	-13.40	-13.35	-0.00487	-0.22611	-0.23099	2	58.39 %
80	16.006612	41.604541	-11.60	-10.20	-0.17386	-0.29432	-0.46817	2	59.12 %
81	16.200785	41.682597	-14.70	-14.15	-0.07030	-0.18231	-0.25261	2	59.85 %

82	16.191340	41.720932	-13.50	-13.40	-0.13581	-0.25001	-0.38582	2	60.58 %
83	16.152172	41.707876	-12.70	-12.20	-0.28841	-0.30445	-0.59286	2	61.31 %
84	16.111337	41.688431	-12.20	-11.25	-0.36152	-0.37455	-0.73607	2	62.04 %
85	16.081614	41.662875	-13.00	-11.20	-0.35874	-0.37412	-0.73286	2	62.77 %
86	16.046890	41.646486	-13.00	-11.45	-0.33833	-0.38282	-0.72115	2	63.5 %
87	16.005501	41.634541	-12.40	-10.10	-0.47479	-0.39198	-0.86677	2	64.23 %
88	16.093004	41.619820	-14.20	-14.00	-0.03348	-0.21205	-0.24554	2	64.96 %
89	16.108838	41.589819	-14.50	-14.20	-0.03788	-0.12654	-0.16442	2	65.69 %
90	16.195785	41.593708	-16.00	-17.30	-0.08693	-0.07424	-0.16117	2	66.42 %
91	16.143839	41.551763	-16.20	-16.55	-0.01988	-0.06375	-0.08362	2	67.15 %
92	16.125506	41.507595	-17.30	-16.60	-0.07954	-0.04280	-0.12234	2	67.88 %
93	16.081059	41.529541	-16.80	-15.60	-0.13423	-0.06797	-0.20220	2	68.61 %
94	16.047725	41.560374	-15.00	-15.00	0.00005	-0.12212	-0.12207	2	69.34 %
95	16.006889	41.528429	-15.20	-15.00	-0.02243	-0.09211	-0.11453	2	70.07 %
96	15.954943	41.515929	-8.80	-8.25	-0.06026	-0.09080	-0.15106	2	70.8 %
97	15.943554	41.539262	-9.70	-9.50	-0.01688	-0.13335	-0.15023	2	71.53 %
98	15.987166	41.560652	-14.20	-13.60	-0.06251	-0.16271	-0.22523	2	72.26 %
99	15.935498	41.575652	-10.00	-10.20	-0.01881	-0.24675	-0.26556	2	72.99 %
100	15.938275	41.601763	-10.80	-10.00	-0.15389	-0.36056	-0.51445	2	73.72 %
101	16.243286	41.700932	-16.70	-17.20	-0.03881	-0.14185	-0.18066	2	74.45 %
102	16.192173	41.752598	-13.10	-13.40	-0.37949	-0.27924	-0.65873	2	75.18 %
103	16.224119	41.792044	-14.40	-14.30	-0.17263	-0.24800	-0.42062	2	75.91 %
104	16.285233	41.609542	-22.90	-24.45	-0.11045	-0.04780	-0.15824	2	76.64 %
105	16.329124	41.670098	-32.10	-32.10	-0.00819	-0.05397	-0.06216	2	77.37 %
106	16.389126	41.726210	-50.85	-50.85	-0.00887	-0.04580	-0.05466	2	78.1 %
107	16.409681	41.800933	-65.95	-65.95	-0.00668	-0.04619	-0.05287	2	78.83 %
108	16.517185	41.775099	-84.70	-89.40	-0.32201	-0.03818	-0.36019	2	79.56 %
109	16.543855	41.420095	-70.20	-72.65	-0.15961	-0.01802	-0.17763	2	80.29 %
110	16.528576	41.464541	-72.00	-73.85	-0.13521	-0.01369	-0.14890	2	81.02 %
111	16.472185	41.496485	-62.20	-64.30	-0.14284	-0.01131	-0.15415	2	81.75 %
112	16.417738	41.531208	-52.00	-53.50	-0.09722	-0.01294	-0.11016	2	82.48 %
113	16.357458	41.505374	-39.00	-40.30	-0.08620	-0.01389	-0.10009	2	83.21 %
114	16.336068	41.547319	-36.10	-36.25	-0.01391	-0.01969	-0.03360	2	83.94 %
115	16.266899	41.527596	-26.00	-26.40	-0.02586	-0.02516	-0.05102	2	84.67 %
116	16.212453	41.550652	-20.00	-20.20	-0.01291	-0.04248	-0.05539	2	85.4 %
117	16.268566	41.569541	-24.60	-24.95	-0.02740	-0.03633	-0.06374	2	86.13 %
118	16.368291	41.601209	-42.00	-42.55	-0.03932	-0.02581	-0.06513	2	86.86 %
119	16.440239	41.578431	-60.50	-60.35	-0.01688	-0.01625	-0.03313	2	87.59 %
120	16.546354	41.537320	-81.20	-80.50	-0.07140	-0.01615	-0.08755	2	88.32 %
121	16.644413	41.495652	-93.80	-93.40	-0.04165	-0.02796	-0.06961	2	89.05 %
122	16.741084	41.456763	-103.00	-105.25	-0.15349	-0.05021	-0.20370	2	89.78 %

123	16.780531	41.245372	-85.40	-86.50	-0.08141	-0.07005	-0.15145	2	90.51 %
124	16.783031	41.306484	-97.80	-100.10	-0.15808	-0.05487	-0.21295	2	91.24 %
125	16.709416	41.332318	-89.40	-92.20	-0.18437	-0.04128	-0.22566	2	91.97 %
126	16.774974	41.370651	-101.00	-103.55	-0.17405	-0.05126	-0.22531	2	92.7 %
127	16.823586	41.706211	-138.20	-145.80	-0.57578	-0.23300	-0.80878	2	93.43 %
128	16.763862	41.600654	-108.70	-112.80	-0.28182	-0.10755	-0.38938	2	94.16 %
129	16.686082	41.429819	-94.00	-96.25	-0.15917	-0.03241	-0.19159	2	94.89 %
130	16.611079	41.431208	-84.00	-86.00	-0.14294	-0.02113	-0.16407	2	95.62 %
131	16.515242	41.596486	-79.90	-79.90	-0.00407	-0.01845	-0.02251	2	96.35 %
132	16.702748	41.688155	-107.00	-109.45	-0.19882	-0.09217	-0.29099	2	97.08 %
133	16.770805	41.789545	-136.80	-142.60	-0.40346	-0.18921	-0.59267	2	97.81 %
134	16.648579	41.778434	-100.40	-103.60	-0.22324	-0.08086	-0.30410	2	98.54 %
135	16.556909	41.654821	-88.30	-89.20	-0.06405	-0.02973	-0.09378	2	99.27 %
136	16.441628	41.639543	-63.80	-63.30	-0.03965	-0.02346	-0.06311	2	100.0 %

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Total_time: 12.647901773452759 sec.

LOADING/CREATING DTM_1 ...

Add coast band

LOADING/CREATING DTM_2 ...

Computational Parameters, gs1 gs2 R1 R2 :

100 2586 9050 182293

LOOP STARTED (#cpu: 1) ...

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Computational parameters [m]:

R1 = 9050 | R2 = 182293 | gs1 = 100 | gs2 = 2586

st_num	Lon	Lat	h_st	h_dtm	te_near	te_far	te_tot	st_type	0 0.04 %
0	15.858333	41.841667	130.00	130.00	11.03883	-0.39173	10.64710	0	0.04 %
1	15.875000	41.841667	176.00	176.00	17.13781	-0.27026	16.86755	0	0.08 %
2	15.891667	41.841667	423.00	423.00	42.51879	0.26536	42.78415	0	0.12 %
3	15.908333	41.841667	614.00	614.00	62.00861	0.64255	62.65116	0	0.16 %
4	15.925000	41.841667	523.00	523.00	52.88505	0.44630	53.33134	0	0.2 %
5	15.941667	41.841667	617.00	617.00	65.38968	0.60355	65.99323	0	0.24 %
6	15.958333	41.841667	686.00	686.00	72.86758	0.68982	73.55740	0	0.28 %
7	15.975000	41.841667	656.00	656.00	69.06253	0.61876	69.68129	0	0.32 %
8	15.991667	41.841667	631.00	631.00	64.61371	0.54845	65.16216	0	0.36 %
9	16.008333	41.841667	685.00	685.00	72.19077	0.60668	72.79745	0	0.4 %
10	16.025000	41.841667	631.00	631.00	65.37176	0.50420	65.87596	0	0.44 %
11	16.041667	41.841667	594.00	594.00	58.82002	0.42278	59.24280	0	0.48 %
12	16.058333	41.841667	482.00	482.00	50.06879	0.26317	50.33196	0	0.52 %
13	16.075000	41.841667	359.00	359.00	37.18975	0.08872	37.27848	0	0.56 %
14	16.091667	41.841667	322.00	322.00	32.44745	0.03884	32.48628	0	0.6 %
15	16.108333	41.841667	320.00	320.00	33.80639	0.02230	33.82869	0	0.63 %
16	16.125000	41.841667	234.00	234.00	23.73650	-0.07560	23.66091	0	0.67 %
17	16.141667	41.841667	216.00	216.00	21.62144	-0.09838	21.52306	0	0.71 %
18	16.158333	41.841667	99.00	99.00	7.68663	-0.20400	7.48262	0	0.75 %

19	16.175000	41.841667	68.00	68.00	6.06224	-0.22273	5.83951	0	0.79 %
20	16.191667	41.841667	0.00	-7.45	-0.93327	-0.25634	-1.18961	1	0.83 %
21	16.208333	41.841667	0.00	-12.60	-1.03717	-0.23424	-1.27141	1	0.87 %
22	16.225000	41.841667	0.00	-15.10	-1.11762	-0.20838	-1.32599	1	0.91 %
23	16.241667	41.841667	0.00	-17.50	-1.24465	-0.18424	-1.42888	1	0.95 %
24	16.258333	41.841667	0.00	-20.35	-1.41865	-0.16042	-1.57907	1	0.99 %
25	16.275000	41.841667	0.00	-23.00	-1.59191	-0.13811	-1.73002	1	1.03 %
26	16.291667	41.841667	0.00	-26.15	-1.81564	-0.11883	-1.93446	1	1.07 %
27	16.308333	41.841667	0.00	-32.45	-2.24965	-0.10319	-2.35285	1	1.11 %
28	16.325000	41.841667	0.00	-40.10	-2.76508	-0.09223	-2.85731	1	1.15 %
29	16.341667	41.841667	0.00	-48.40	-3.33234	-0.08339	-3.41573	1	1.19 %
30	16.358333	41.841667	0.00	-55.55	-3.78625	-0.07841	-3.86466	1	1.23 %
31	16.375000	41.841667	0.00	-61.70	-4.21197	-0.07422	-4.28620	1	1.27 %
32	16.391667	41.841667	0.00	-65.90	-4.50842	-0.07246	-4.58088	1	1.31 %
33	16.408333	41.841667	0.00	-71.50	-4.89737	-0.07151	-4.96888	1	1.35 %
34	16.425000	41.841667	0.00	-76.30	-5.21417	-0.07218	-5.28635	1	1.39 %
35	16.441667	41.841667	0.00	-79.80	-5.45705	-0.07376	-5.53080	1	1.43 %
36	16.458333	41.841667	0.00	-83.60	-5.71809	-0.07657	-5.79466	1	1.47 %
37	16.475000	41.841667	0.00	-86.75	-5.93499	-0.08034	-6.01533	1	1.51 %
38	16.491667	41.841667	0.00	-90.15	-6.16393	-0.08511	-6.24904	1	1.55 %
39	16.508333	41.841667	0.00	-92.80	-6.34529	-0.09084	-6.43614	1	1.59 %
40	16.525000	41.841667	0.00	-95.15	-6.51289	-0.09747	-6.61036	1	1.63 %
41	16.541667	41.841667	0.00	-97.50	-6.67410	-0.10528	-6.77937	1	1.67 %
42	16.558333	41.841667	0.00	-99.80	-6.82971	-0.11401	-6.94372	1	1.71 %
43	16.575000	41.841667	0.00	-102.20	-6.99636	-0.12400	-7.12036	1	1.75 %
44	16.591667	41.841667	0.00	-104.90	-7.17091	-0.13517	-7.30608	1	1.79 %
45	16.608333	41.841667	0.00	-107.35	-7.34549	-0.14758	-7.49307	1	1.83 %
46	16.625000	41.841667	0.00	-109.15	-7.48556	-0.16165	-7.64720	1	1.87 %
47	16.641667	41.841667	0.00	-114.40	-7.78938	-0.17714	-7.96652	1	1.9 %
48	16.658333	41.841667	0.00	-114.50	-7.77994	-0.19488	-7.97482	1	1.94 %
49	16.675000	41.841667	0.00	-115.55	-7.91748	-0.21453	-8.13201	1	1.98 %
50	16.691667	41.841667	0.00	-129.80	-8.66741	-0.23705	-8.90446	1	2.02 %
51	16.708333	41.841667	0.00	-134.55	-9.16690	-0.26227	-9.42916	1	2.06 %
52	16.725000	41.841667	0.00	-140.05	-9.55478	-0.29119	-9.84597	1	2.1 %
53	16.741667	41.841667	0.00	-144.20	-9.83775	-0.32416	-10.16191	1	2.14 %
54	16.758333	41.841667	0.00	-147.60	-10.10504	-0.36119	-10.46624	1	2.18 %
55	16.775000	41.841667	0.00	-154.10	-10.54856	-0.40283	-10.95139	1	2.22 %
56	16.791667	41.841667	0.00	-164.00	-11.24121	-0.44618	-11.68738	1	2.26 %
57	16.808333	41.841667	0.00	-177.90	-12.19543	-0.49337	-12.68881	1	2.3 %
58	16.825000	41.841667	0.00	-193.60	-13.23258	-0.54139	-13.77396	1	2.34 %

59	16.841667	41.841667	0.00	-209.95	-14.43773	-0.59252	-15.03024	1	2.38 %
60	15.858333	41.825000	226.00	226.00	21.22878	-0.15734	21.07143	0	2.42 %
61	15.875000	41.825000	225.00	225.00	21.93462	-0.14718	21.78744	0	2.46 %
62	15.891667	41.825000	232.00	232.00	21.48158	-0.11229	21.36929	0	2.5 %
63	15.908333	41.825000	366.00	366.00	38.10280	0.18788	38.29068	0	2.54 %
64	15.925000	41.825000	578.00	578.00	56.76238	0.61613	57.37850	0	2.58 %
65	15.941667	41.825000	689.00	689.00	73.12944	0.80318	73.93262	0	2.62 %
66	15.958333	41.825000	689.00	689.00	72.88801	0.76887	73.65688	0	2.66 %
67	15.975000	41.825000	696.00	696.00	72.81105	0.74610	73.55714	0	2.7 %
68	15.991667	41.825000	792.00	792.00	83.52862	0.85213	84.38075	0	2.74 %
69	16.008333	41.825000	747.00	747.00	79.44789	0.74605	80.19394	0	2.78 %
70	16.025000	41.825000	694.00	694.00	72.78667	0.62463	73.41130	0	2.82 %
71	16.041667	41.825000	646.00	646.00	68.03817	0.51991	68.55808	0	2.86 %
72	16.058333	41.825000	570.00	570.00	58.78533	0.38399	59.16932	0	2.9 %
73	16.075000	41.825000	512.00	512.00	52.19164	0.28503	52.47668	0	2.94 %
74	16.091667	41.825000	463.00	463.00	48.43902	0.20673	48.64575	0	2.98 %
75	16.108333	41.825000	322.00	322.00	33.07796	0.03043	33.10839	0	3.02 %
76	16.125000	41.825000	305.00	305.00	31.89127	0.00010	31.89137	0	3.06 %
77	16.141667	41.825000	251.00	251.00	24.54723	-0.06506	24.48218	0	3.1 %
78	16.158333	41.825000	244.00	244.00	25.12827	-0.07476	25.05352	0	3.13 %
79	16.175000	41.825000	123.00	123.00	12.13210	-0.18609	11.94601	0	3.17 %
80	16.191667	41.825000	84.00	84.00	7.91774	-0.20436	7.71338	0	3.21 %
81	16.208333	41.825000	0.00	-12.30	-1.10988	-0.25005	-1.35993	1	3.25 %
82	16.225000	41.825000	0.00	-14.50	-1.10752	-0.22215	-1.32967	1	3.29 %
83	16.241667	41.825000	0.00	-17.10	-1.22084	-0.19554	-1.41638	1	3.33 %
84	16.258333	41.825000	0.00	-19.50	-1.36411	-0.16921	-1.53333	1	3.37 %
85	16.275000	41.825000	0.00	-22.00	-1.52293	-0.14444	-1.66737	1	3.41 %
86	16.291667	41.825000	0.00	-24.50	-1.70283	-0.12349	-1.82632	1	3.45 %
87	16.308333	41.825000	0.00	-29.55	-2.05492	-0.10558	-2.16050	1	3.49 %
88	16.325000	41.825000	0.00	-37.10	-2.56533	-0.09374	-2.65907	1	3.53 %
89	16.341667	41.825000	0.00	-44.20	-3.05236	-0.08389	-3.13626	1	3.57 %
90	16.358333	41.825000	0.00	-51.05	-3.48164	-0.07839	-3.56003	1	3.61 %
91	16.375000	41.825000	0.00	-58.15	-3.95867	-0.07363	-4.03230	1	3.65 %
92	16.391667	41.825000	0.00	-63.55	-4.35530	-0.07155	-4.42685	1	3.69 %
93	16.408333	41.825000	0.00	-69.60	-4.75542	-0.07026	-4.82569	1	3.73 %
94	16.425000	41.825000	0.00	-74.80	-5.10728	-0.07068	-5.17796	1	3.77 %
95	16.441667	41.825000	0.00	-78.10	-5.34727	-0.07196	-5.41923	1	3.81 %
96	16.458333	41.825000	0.00	-81.50	-5.58252	-0.07451	-5.65703	1	3.85 %
97	16.475000	41.825000	0.00	-84.90	-5.80914	-0.07797	-5.88711	1	3.89 %
98	16.491667	41.825000	0.00	-88.20	-6.03096	-0.08254	-6.11350	1	3.93 %
99	16.508333	41.825000	0.00	-90.90	-6.21764	-0.08801	-6.30565	1	3.97 %

100	16.525000	41.825000	0.00	-93.30	-6.38748	-0.09443	-6.48191	1	4.01 %
101	16.541667	41.825000	0.00	-95.50	-6.53837	-0.10195	-6.64031	1	4.05 %
102	16.558333	41.825000	0.00	-98.00	-6.70685	-0.11047	-6.81732	1	4.09 %
103	16.575000	41.825000	0.00	-100.15	-6.85487	-0.12011	-6.97498	1	4.13 %
104	16.591667	41.825000	0.00	-102.55	-7.01549	-0.13098	-7.14648	1	4.17 %
105	16.608333	41.825000	0.00	-105.45	-7.21047	-0.14305	-7.35352	1	4.21 %
106	16.625000	41.825000	0.00	-107.15	-7.34030	-0.15677	-7.49707	1	4.25 %
107	16.641667	41.825000	0.00	-112.00	-7.60443	-0.17186	-7.77629	1	4.29 %
108	16.658333	41.825000	0.00	-112.85	-7.73739	-0.18915	-7.92654	1	4.33 %
109	16.675000	41.825000	0.00	-115.25	-7.90427	-0.20834	-8.11261	1	4.37 %
110	16.691667	41.825000	0.00	-114.70	-7.89589	-0.23030	-8.12620	1	4.4 %
111	16.708333	41.825000	0.00	-131.35	-8.85088	-0.25505	-9.10593	1	4.44 %
112	16.725000	41.825000	0.00	-136.95	-9.34018	-0.28331	-9.62349	1	4.48 %
113	16.741667	41.825000	0.00	-140.35	-9.59748	-0.31577	-9.91324	1	4.52 %
114	16.758333	41.825000	0.00	-145.20	-9.91822	-0.35230	-10.27053	1	4.56 %
115	16.775000	41.825000	0.00	-148.90	-10.21884	-0.39373	-10.61257	1	4.6 %
116	16.791667	41.825000	0.00	-157.30	-10.80751	-0.43742	-11.24493	1	4.64 %
117	16.808333	41.825000	0.00	-171.75	-11.71728	-0.48499	-12.20228	1	4.68 %
118	16.825000	41.825000	0.00	-184.95	-12.65084	-0.53366	-13.18450	1	4.72 %
119	16.841667	41.825000	0.00	-199.85	-13.74800	-0.58518	-14.33318	1	4.76 %
120	15.858333	41.808333	637.00	637.00	64.30239	0.87416	65.17656	0	4.8 %
121	15.875000	41.808333	485.00	485.00	49.90134	0.49089	50.39223	0	4.84 %
122	15.891667	41.808333	491.00	491.00	51.03177	0.49883	51.53059	0	4.88 %
123	15.908333	41.808333	441.00	441.00	46.53799	0.37954	46.91753	0	4.92 %
124	15.925000	41.808333	560.00	560.00	59.62512	0.62491	60.25003	0	4.96 %
125	15.941667	41.808333	597.00	597.00	62.75498	0.67603	63.43101	0	5.0 %
126	15.958333	41.808333	714.00	714.00	75.43617	0.86844	76.30462	0	5.04 %
127	15.975000	41.808333	752.00	752.00	80.17772	0.88327	81.06099	0	5.08 %
128	15.991667	41.808333	764.00	764.00	81.71551	0.85188	82.56739	0	5.12 %
129	16.008333	41.808333	803.00	803.00	85.43711	0.85257	86.28968	0	5.16 %
130	16.025000	41.808333	753.00	753.00	79.86528	0.72761	80.59289	0	5.2 %
131	16.041667	41.808333	776.00	776.00	81.53746	0.69409	82.23154	0	5.24 %
132	16.058333	41.808333	689.00	689.00	72.29973	0.53922	72.83895	0	5.28 %
133	16.075000	41.808333	635.00	635.00	65.91688	0.42735	66.34423	0	5.32 %
134	16.091667	41.808333	574.00	574.00	60.14530	0.33189	60.47719	0	5.36 %
135	16.108333	41.808333	433.00	433.00	45.68303	0.14981	45.83284	0	5.4 %
136	16.125000	41.808333	383.00	383.00	40.71584	0.07701	40.79286	0	5.44 %
137	16.141667	41.808333	371.00	371.00	39.04770	0.05290	39.10060	0	5.48 %
138	16.158333	41.808333	253.00	253.00	25.10233	-0.07366	25.02867	0	5.52 %
139	16.175000	41.808333	113.00	113.00	10.94940	-0.20630	10.74310	0	5.56 %

140	16.191667	41.808333	71.00	71.00	5.05202	-0.22763	4.82439	0	5.6 %
141	16.208333	41.808333	0.00	-12.10	-1.17169	-0.26490	-1.43660	1	5.63 %
142	16.225000	41.808333	0.00	-14.20	-1.10954	-0.23490	-1.34444	1	5.67 %
143	16.241667	41.808333	0.00	-16.30	-1.18100	-0.20608	-1.38708	1	5.71 %
144	16.258333	41.808333	0.00	-18.90	-1.32402	-0.17759	-1.50160	1	5.75 %
145	16.275000	41.808333	0.00	-21.15	-1.46738	-0.15064	-1.61803	1	5.79 %
146	16.291667	41.808333	0.00	-23.70	-1.64299	-0.12773	-1.77072	1	5.83 %
147	16.308333	41.808333	0.00	-28.45	-1.96464	-0.10863	-2.07327	1	5.87 %
148	16.325000	41.808333	0.00	-34.95	-2.41604	-0.09551	-2.51155	1	5.91 %
149	16.341667	41.808333	0.00	-41.30	-2.84975	-0.08477	-2.93453	1	5.95 %
150	16.358333	41.808333	0.00	-47.25	-3.22896	-0.07876	-3.30772	1	5.99 %
151	16.375000	41.808333	0.00	-53.85	-3.69287	-0.07345	-3.76632	1	6.03 %
152	16.391667	41.808333	0.00	-61.25	-4.17929	-0.07105	-4.25035	1	6.07 %
153	16.408333	41.808333	0.00	-66.80	-4.56528	-0.06936	-4.63464	1	6.11 %
154	16.425000	41.808333	0.00	-72.50	-4.95620	-0.06949	-5.02570	1	6.15 %
155	16.441667	41.808333	0.00	-76.55	-5.23442	-0.07047	-5.30488	1	6.19 %
156	16.458333	41.808333	0.00	-80.00	-5.47544	-0.07276	-5.54820	1	6.23 %
157	16.475000	41.808333	0.00	-83.55	-5.71493	-0.07597	-5.79091	1	6.27 %
158	16.491667	41.808333	0.00	-86.75	-5.93448	-0.08023	-6.01471	1	6.31 %
159	16.508333	41.808333	0.00	-89.40	-6.11967	-0.08547	-6.20513	1	6.35 %
160	16.525000	41.808333	0.00	-91.95	-6.29572	-0.09159	-6.38731	1	6.39 %
161	16.541667	41.808333	0.00	-94.15	-6.45045	-0.09887	-6.54932	1	6.43 %
162	16.558333	41.808333	0.00	-96.40	-6.59751	-0.10711	-6.70462	1	6.47 %
163	16.575000	41.808333	0.00	-98.25	-6.72585	-0.11645	-6.84230	1	6.51 %
164	16.591667	41.808333	0.00	-99.80	-6.83041	-0.12706	-6.95747	1	6.55 %
165	16.608333	41.808333	0.00	-102.30	-6.99530	-0.13879	-7.13409	1	6.59 %
166	16.625000	41.808333	0.00	-105.30	-7.20458	-0.15217	-7.35675	1	6.63 %
167	16.641667	41.808333	0.00	-106.50	-7.32713	-0.16676	-7.49389	1	6.67 %
168	16.658333	41.808333	0.00	-110.90	-7.60992	-0.18359	-7.79351	1	6.71 %
169	16.675000	41.808333	0.00	-110.80	-7.71712	-0.20221	-7.91933	1	6.75 %
170	16.691667	41.808333	0.00	-112.70	-7.82024	-0.22366	-8.04389	1	6.79 %
171	16.708333	41.808333	0.00	-116.60	-8.04731	-0.24777	-8.29507	1	6.83 %
172	16.725000	41.808333	0.00	-133.20	-9.07847	-0.27541	-9.35388	1	6.87 %
173	16.741667	41.808333	0.00	-138.10	-9.43112	-0.30716	-9.73828	1	6.9 %
174	16.758333	41.808333	0.00	-142.25	-9.72468	-0.34310	-10.06777	1	6.94 %
175	16.775000	41.808333	0.00	-146.20	-10.02318	-0.38401	-10.40719	1	6.98 %
176	16.791667	41.808333	0.00	-154.40	-10.54537	-0.42767	-10.97304	1	7.02 %
177	16.808333	41.808333	0.00	-164.10	-11.25899	-0.47535	-11.73434	1	7.06 %
178	16.825000	41.808333	0.00	-176.20	-12.07545	-0.52416	-12.59961	1	7.1 %
179	16.841667	41.808333	0.00	-188.35	-13.07449	-0.57593	-13.65042	1	7.14 %
180	15.858333	41.791667	695.00	695.00	71.55495	1.04126	72.59621	0	7.18 %

181	15.875000	41.791667	630.00	630.00	64.36861	0.86573	65.23433	0	7.22 %
182	15.891667	41.791667	713.00	713.00	74.04844	1.04049	75.08893	0	7.26 %
183	15.908333	41.791667	530.00	530.00	55.04760	0.60255	55.65015	0	7.3 %
184	15.925000	41.791667	563.00	563.00	60.07753	0.65829	60.73582	0	7.34 %
185	15.941667	41.791667	611.00	611.00	65.03266	0.73620	65.76885	0	7.38 %
186	15.958333	41.791667	711.00	711.00	76.09401	0.89709	76.99110	0	7.42 %
187	15.975000	41.791667	687.00	687.00	73.83691	0.80129	74.63820	0	7.46 %
188	15.991667	41.791667	772.00	772.00	82.08434	0.89889	82.98323	0	7.5 %
189	16.008333	41.791667	773.00	773.00	82.19850	0.83594	83.03444	0	7.54 %
190	16.025000	41.791667	775.00	775.00	82.69103	0.78765	83.47868	0	7.58 %
191	16.041667	41.791667	796.00	796.00	84.02131	0.74198	84.76329	0	7.62 %
192	16.058333	41.791667	802.00	802.00	84.71915	0.70657	85.42572	0	7.66 %
193	16.075000	41.791667	724.00	724.00	76.58169	0.55515	77.13685	0	7.7 %
194	16.091667	41.791667	662.00	662.00	69.79459	0.45464	70.24923	0	7.74 %
195	16.108333	41.791667	594.00	594.00	60.87009	0.34621	61.21630	0	7.78 %
196	16.125000	41.791667	509.00	509.00	51.90520	0.23019	52.13538	0	7.82 %
197	16.141667	41.791667	386.00	386.00	39.38867	0.07737	39.46603	0	7.86 %
198	16.158333	41.791667	238.00	238.00	23.38885	-0.08297	23.30588	0	7.9 %
199	16.175000	41.791667	185.00	185.00	16.02352	-0.13747	15.88605	0	7.94 %
200	16.191667	41.791667	115.00	115.00	7.74881	-0.18940	7.55942	0	7.98 %
201	16.208333	41.791667	0.00	-13.00	-1.23972	-0.26666	-1.50638	1	8.02 %
202	16.225000	41.791667	0.00	-14.30	-1.11977	-0.23546	-1.35523	1	8.06 %
203	16.241667	41.791667	0.00	-16.20	-1.17189	-0.20580	-1.37768	1	8.1 %
204	16.258333	41.791667	0.00	-18.50	-1.29593	-0.17672	-1.47265	1	8.13 %
205	16.275000	41.791667	0.00	-20.50	-1.42558	-0.14938	-1.57496	1	8.17 %
206	16.291667	41.791667	0.00	-23.20	-1.60102	-0.12583	-1.72684	1	8.21 %
207	16.308333	41.791667	0.00	-27.20	-1.88389	-0.10710	-1.99099	1	8.25 %
208	16.325000	41.791667	0.00	-32.70	-2.26440	-0.09385	-2.35825	1	8.29 %
209	16.341667	41.791667	0.00	-39.70	-2.74094	-0.08327	-2.82422	1	8.33 %
210	16.358333	41.791667	0.00	-45.10	-3.08958	-0.07715	-3.16673	1	8.37 %
211	16.375000	41.791667	0.00	-52.10	-3.55900	-0.07192	-3.63092	1	8.41 %
212	16.391667	41.791667	0.00	-58.45	-3.98740	-0.06932	-4.05672	1	8.45 %
213	16.408333	41.791667	0.00	-64.60	-4.41497	-0.06745	-4.48242	1	8.49 %
214	16.425000	41.791667	0.00	-70.80	-4.83594	-0.06754	-4.90348	1	8.53 %
215	16.441667	41.791667	0.00	-74.80	-5.12165	-0.06837	-5.19002	1	8.57 %
216	16.458333	41.791667	0.00	-79.00	-5.39822	-0.07053	-5.46875	1	8.61 %
217	16.475000	41.791667	0.00	-82.20	-5.62513	-0.07357	-5.69869	1	8.65 %
218	16.491667	41.791667	0.00	-85.55	-5.85517	-0.07763	-5.93280	1	8.69 %
219	16.508333	41.791667	0.00	-88.55	-6.05867	-0.08265	-6.14132	1	8.73 %
220	16.525000	41.791667	0.00	-91.15	-6.24100	-0.08857	-6.32957	1	8.77 %

221	16.541667	41.791667	0.00	-93.50	-6.39422	-0.09560	-6.48982	1	8.81 %
222	16.558333	41.791667	0.00	-95.30	-6.52429	-0.10357	-6.62785	1	8.85 %
223	16.575000	41.791667	0.00	-96.95	-6.63215	-0.11264	-6.74478	1	8.89 %
224	16.591667	41.791667	0.00	-98.15	-6.71949	-0.12291	-6.84240	1	8.93 %
225	16.608333	41.791667	0.00	-99.45	-6.81736	-0.13437	-6.95173	1	8.97 %
226	16.625000	41.791667	0.00	-102.40	-7.00008	-0.14730	-7.14738	1	9.01 %
227	16.641667	41.791667	0.00	-105.05	-7.18146	-0.16157	-7.34304	1	9.05 %
228	16.658333	41.791667	0.00	-107.15	-7.33838	-0.17791	-7.51630	1	9.09 %
229	16.675000	41.791667	0.00	-110.55	-7.58711	-0.19597	-7.78307	1	9.13 %
230	16.691667	41.791667	0.00	-115.05	-7.84207	-0.21679	-8.05885	1	9.17 %
231	16.708333	41.791667	0.00	-116.60	-7.96755	-0.24027	-8.20782	1	9.21 %
232	16.725000	41.791667	0.00	-127.10	-8.59179	-0.26712	-8.85891	1	9.25 %
233	16.741667	41.791667	0.00	-138.65	-9.37660	-0.29814	-9.67474	1	9.29 %
234	16.758333	41.791667	0.00	-140.55	-9.59910	-0.33323	-9.93233	1	9.33 %
235	16.775000	41.791667	0.00	-143.85	-9.83658	-0.37335	-10.20993	1	9.37 %
236	16.791667	41.791667	0.00	-148.90	-10.19452	-0.41647	-10.61099	1	9.4 %
237	16.808333	41.791667	0.00	-157.05	-10.79508	-0.46353	-11.25861	1	9.44 %
238	16.825000	41.791667	0.00	-169.40	-11.63795	-0.51191	-12.14986	1	9.48 %
239	16.841667	41.791667	0.00	-184.35	-12.67227	-0.56321	-13.23549	1	9.52 %
240	15.858333	41.775000	655.00	655.00	68.09617	0.93614	69.03231	0	9.56 %
241	15.875000	41.775000	804.00	804.00	81.33477	1.26941	82.60418	0	9.6 %
242	15.891667	41.775000	882.00	882.00	89.83154	1.41576	91.24730	0	9.64 %
243	15.908333	41.775000	922.00	922.00	93.96288	1.45838	95.42126	0	9.68 %
244	15.925000	41.775000	661.00	661.00	68.04564	0.86202	68.90767	0	9.72 %
245	15.941667	41.775000	629.00	629.00	67.33806	0.77420	68.11226	0	9.76 %
246	15.958333	41.775000	657.00	657.00	70.62819	0.79155	71.41974	0	9.8 %
247	15.975000	41.775000	667.00	667.00	70.72860	0.77477	71.50337	0	9.84 %
248	15.991667	41.775000	642.00	642.00	68.39685	0.68138	69.07823	0	9.88 %
249	16.008333	41.775000	730.00	730.00	78.11053	0.78254	78.89307	0	9.92 %
250	16.025000	41.775000	700.00	700.00	74.95307	0.68209	75.63516	0	9.96 %
251	16.041667	41.775000	667.00	667.00	71.27880	0.58789	71.86669	0	10.0 %
252	16.058333	41.775000	698.00	698.00	73.50133	0.58219	74.08352	0	10.04 %
253	16.075000	41.775000	699.00	699.00	70.74397	0.54788	71.29185	0	10.08 %
254	16.091667	41.775000	663.00	663.00	68.82166	0.47396	69.29562	0	10.12 %
255	16.108333	41.775000	554.00	554.00	56.67195	0.31670	56.98865	0	10.16 %
256	16.125000	41.775000	517.00	517.00	51.33344	0.25423	51.58766	0	10.2 %
257	16.141667	41.775000	407.00	407.00	40.19334	0.11200	40.30534	0	10.24 %
258	16.158333	41.775000	326.00	326.00	32.15688	0.01702	32.17390	0	10.28 %
259	16.175000	41.775000	190.00	190.00	17.23738	-0.12479	17.11259	0	10.32 %
260	16.191667	41.775000	0.00	6.59	-1.26946	-0.28448	-1.55394	1	10.36 %
261	16.208333	41.775000	0.00	-13.60	-1.21275	-0.25984	-1.47259	1	10.4 %

262	16.225000	41.775000	0.00	-14.70	-1.13083	-0.22848	-1.35931	1	10.44 %
263	16.241667	41.775000	0.00	-16.30	-1.17483	-0.19903	-1.37386	1	10.48 %
264	16.258333	41.775000	0.00	-18.30	-1.27940	-0.17067	-1.45007	1	10.52 %
265	16.275000	41.775000	0.00	-20.20	-1.39964	-0.14429	-1.54393	1	10.56 %
266	16.291667	41.775000	0.00	-22.90	-1.57975	-0.12213	-1.70189	1	10.6 %
267	16.308333	41.775000	0.00	-25.95	-1.79982	-0.10352	-1.90334	1	10.63 %
268	16.325000	41.775000	0.00	-31.40	-2.17856	-0.09112	-2.26968	1	10.67 %
269	16.341667	41.775000	0.00	-37.95	-2.62631	-0.08079	-2.70710	1	10.71 %
270	16.358333	41.775000	0.00	-44.55	-3.04707	-0.07468	-3.12175	1	10.75 %
271	16.375000	41.775000	0.00	-50.80	-3.47368	-0.06968	-3.54336	1	10.79 %
272	16.391667	41.775000	0.00	-55.45	-3.79523	-0.06710	-3.86234	1	10.83 %
273	16.408333	41.775000	0.00	-62.35	-4.26525	-0.06539	-4.33064	1	10.87 %
274	16.425000	41.775000	0.00	-68.30	-4.67083	-0.06531	-4.73614	1	10.91 %
275	16.441667	41.775000	0.00	-73.65	-5.02882	-0.06613	-5.09495	1	10.95 %
276	16.458333	41.775000	0.00	-77.60	-5.30481	-0.06813	-5.37294	1	10.99 %
277	16.475000	41.775000	0.00	-81.10	-5.54513	-0.07104	-5.61617	1	11.03 %
278	16.491667	41.775000	0.00	-84.80	-5.79667	-0.07498	-5.87165	1	11.07 %
279	16.508333	41.775000	0.00	-87.65	-5.99990	-0.07980	-6.07970	1	11.11 %
280	16.525000	41.775000	0.00	-90.60	-6.20010	-0.08555	-6.28565	1	11.15 %
281	16.541667	41.775000	0.00	-92.45	-6.32546	-0.09233	-6.41779	1	11.19 %
282	16.558333	41.775000	0.00	-94.20	-6.44702	-0.09999	-6.54701	1	11.23 %
283	16.575000	41.775000	0.00	-95.55	-6.54258	-0.10882	-6.65140	1	11.27 %
284	16.591667	41.775000	0.00	-96.70	-6.62277	-0.11878	-6.74155	1	11.31 %
285	16.608333	41.775000	0.00	-98.30	-6.72973	-0.12992	-6.85965	1	11.35 %
286	16.625000	41.775000	0.00	-99.90	-6.84327	-0.14249	-6.98575	1	11.39 %
287	16.641667	41.775000	0.00	-102.45	-7.01400	-0.15634	-7.17034	1	11.43 %
288	16.658333	41.775000	0.00	-104.45	-7.15891	-0.17210	-7.33101	1	11.47 %
289	16.675000	41.775000	0.00	-109.70	-7.48154	-0.18960	-7.67115	1	11.51 %
290	16.691667	41.775000	0.00	-110.15	-7.56565	-0.20971	-7.77536	1	11.55 %
291	16.708333	41.775000	0.00	-113.35	-7.81983	-0.23250	-8.05234	1	11.59 %
292	16.725000	41.775000	0.00	-117.45	-8.11865	-0.25856	-8.37721	1	11.63 %
293	16.741667	41.775000	0.00	-133.55	-9.09285	-0.28861	-9.38146	1	11.67 %
294	16.758333	41.775000	0.00	-138.00	-9.41528	-0.32282	-9.73811	1	11.71 %
295	16.775000	41.775000	0.00	-141.60	-9.67504	-0.36192	-10.03697	1	11.75 %
296	16.791667	41.775000	0.00	-144.90	-9.92789	-0.40407	-10.33195	1	11.79 %
297	16.808333	41.775000	0.00	-149.60	-10.30683	-0.45014	-10.75696	1	11.83 %
298	16.825000	41.775000	0.00	-163.25	-11.16481	-0.49740	-11.66221	1	11.87 %
299	16.841667	41.775000	0.00	-179.90	-12.33306	-0.54785	-12.88091	1	11.9 %
300	15.858333	41.758333	669.00	669.00	70.88428	0.93856	71.82284	0	11.94 %
301	15.875000	41.758333	663.00	663.00	71.09522	0.90856	72.00378	0	11.98 %

302	15.891667	41.758333	589.00	589.00	61.42995	0.73067	62.16063	0	12.02	%
303	15.908333	41.758333	938.00	938.00	94.27138	1.45884	95.73022	0	12.06	%
304	15.925000	41.758333	958.00	958.00	98.94301	1.45648	100.39948	0	12.1	%
305	15.941667	41.758333	792.00	792.00	80.73058	1.07391	81.80448	0	12.14	%
306	15.958333	41.758333	643.00	643.00	68.78300	0.75742	69.54042	0	12.18	%
307	15.975000	41.758333	653.00	653.00	69.81880	0.73791	70.55671	0	12.22	%
308	15.991667	41.758333	603.00	603.00	64.77620	0.61729	65.39349	0	12.26	%
309	16.008333	41.758333	614.00	614.00	65.64781	0.59760	66.24541	0	12.3	%
310	16.025000	41.758333	699.00	699.00	73.76398	0.69100	74.45498	0	12.34	%
311	16.041667	41.758333	845.00	845.00	85.15024	0.86201	86.01225	0	12.38	%
312	16.058333	41.758333	627.00	627.00	65.96568	0.50291	66.46859	0	12.42	%
313	16.075000	41.758333	629.00	629.00	64.41982	0.47878	64.89860	0	12.46	%
314	16.091667	41.758333	426.00	426.00	40.40535	0.18903	40.59439	0	12.5	%
315	16.108333	41.758333	468.00	468.00	45.10985	0.22970	45.33955	0	12.54	%
316	16.125000	41.758333	310.00	310.00	29.82216	0.02412	29.84627	0	12.58	%
317	16.141667	41.758333	315.00	315.00	30.43071	0.02231	30.45302	0	12.62	%
318	16.158333	41.758333	120.00	120.00	9.34907	-0.19016	9.15891	0	12.66	%
319	16.175000	41.758333	0.00	-10.95	-1.73900	-0.30073	-2.03973	1	12.7	%
320	16.191667	41.758333	0.00	-13.20	-1.32443	-0.27552	-1.59995	1	12.74	%
321	16.208333	41.758333	0.00	-14.00	-1.15578	-0.25066	-1.40645	1	12.78	%
322	16.225000	41.758333	0.00	-15.00	-1.12163	-0.21967	-1.34131	1	12.82	%
323	16.241667	41.758333	0.00	-16.50	-1.17499	-0.19122	-1.36622	1	12.86	%
324	16.258333	41.758333	0.00	-18.20	-1.26953	-0.16410	-1.43363	1	12.9	%
325	16.275000	41.758333	0.00	-20.10	-1.39025	-0.13908	-1.52933	1	12.94	%
326	16.291667	41.758333	0.00	-22.50	-1.55696	-0.11806	-1.67501	1	12.98	%
327	16.308333	41.758333	0.00	-25.40	-1.76649	-0.10042	-1.86691	1	13.02	%
328	16.325000	41.758333	0.00	-30.60	-2.12211	-0.08872	-2.21083	1	13.06	%
329	16.341667	41.758333	0.00	-36.80	-2.54939	-0.07879	-2.62818	1	13.1	%
330	16.358333	41.758333	0.00	-43.30	-2.95955	-0.07299	-3.03254	1	13.13	%
331	16.375000	41.758333	0.00	-49.60	-3.38277	-0.06791	-3.45067	1	13.17	%
332	16.391667	41.758333	0.00	-53.90	-3.69209	-0.06542	-3.75751	1	13.21	%
333	16.408333	41.758333	0.00	-60.75	-4.15364	-0.06368	-4.21733	1	13.25	%
334	16.425000	41.758333	0.00	-66.25	-4.54680	-0.06354	-4.61035	1	13.29	%
335	16.441667	41.758333	0.00	-72.25	-4.93630	-0.06423	-5.00053	1	13.33	%
336	16.458333	41.758333	0.00	-76.50	-5.23344	-0.06610	-5.29954	1	13.37	%
337	16.475000	41.758333	0.00	-80.05	-5.47565	-0.06885	-5.54450	1	13.41	%
338	16.491667	41.758333	0.00	-83.70	-5.72664	-0.07261	-5.79925	1	13.45	%
339	16.508333	41.758333	0.00	-87.00	-5.94813	-0.07724	-6.02538	1	13.49	%
340	16.525000	41.758333	0.00	-89.65	-6.13119	-0.08275	-6.21394	1	13.53	%
341	16.541667	41.758333	0.00	-91.45	-6.25901	-0.08925	-6.34827	1	13.57	%
342	16.558333	41.758333	0.00	-93.10	-6.37043	-0.09670	-6.46713	1	13.61	%

343	16.575000	41.758333	0.00	-94.35	-6.46188	-0.10517	-6.56705	1	13.65 %
344	16.591667	41.758333	0.00	-95.15	-6.52059	-0.11486	-6.63545	1	13.69 %
345	16.608333	41.758333	0.00	-96.90	-6.63300	-0.12562	-6.75862	1	13.73 %
346	16.625000	41.758333	0.00	-98.75	-6.76404	-0.13778	-6.90182	1	13.77 %
347	16.641667	41.758333	0.00	-100.70	-6.89659	-0.15121	-7.04779	1	13.81 %
348	16.658333	41.758333	0.00	-103.10	-7.06365	-0.16647	-7.23012	1	13.85 %
349	16.675000	41.758333	0.00	-107.70	-7.30200	-0.18337	-7.48537	1	13.89 %
350	16.691667	41.758333	0.00	-114.30	-7.69204	-0.20277	-7.89481	1	13.93 %
351	16.708333	41.758333	0.00	-113.70	-7.73029	-0.22478	-7.95507	1	13.97 %
352	16.725000	41.758333	0.00	-117.85	-8.00457	-0.25000	-8.25457	1	14.01 %
353	16.741667	41.758333	0.00	-130.95	-8.77645	-0.27913	-9.05558	1	14.05 %
354	16.758333	41.758333	0.00	-134.20	-9.16347	-0.31231	-9.47578	1	14.09 %
355	16.775000	41.758333	0.00	-138.75	-9.46638	-0.35030	-9.81668	1	14.13 %
356	16.791667	41.758333	0.00	-142.20	-9.72802	-0.39124	-10.11926	1	14.17 %
357	16.808333	41.758333	0.00	-146.45	-10.05814	-0.43598	-10.49412	1	14.21 %
358	16.825000	41.758333	0.00	-151.80	-10.51857	-0.48185	-11.00041	1	14.25 %
359	16.841667	41.758333	0.00	-165.25	-11.38890	-0.53095	-11.91986	1	14.29 %
360	15.858333	41.741667	659.00	659.00	70.67927	0.86865	71.54792	0	14.33 %
361	15.875000	41.741667	749.00	749.00	79.73363	1.05248	80.78611	0	14.37 %
362	15.891667	41.741667	776.00	776.00	81.99864	1.09124	83.08988	0	14.4 %
363	15.908333	41.741667	672.00	672.00	71.46341	0.84617	72.30958	0	14.44 %
364	15.925000	41.741667	679.00	679.00	72.08006	0.83993	72.91999	0	14.48 %
365	15.941667	41.741667	784.00	784.00	82.30904	1.01959	83.32863	0	14.52 %
366	15.958333	41.741667	802.00	802.00	84.33702	1.02955	85.36657	0	14.56 %
367	15.975000	41.741667	662.00	662.00	70.68838	0.73290	71.42128	0	14.6 %
368	15.991667	41.741667	675.00	675.00	71.86518	0.73160	72.59678	0	14.64 %
369	16.008333	41.741667	636.00	636.00	67.75254	0.62953	68.38207	0	14.68 %
370	16.025000	41.741667	607.00	607.00	63.86066	0.55507	64.41574	0	14.72 %
371	16.041667	41.741667	534.00	534.00	55.88435	0.40387	56.28822	0	14.76 %
372	16.058333	41.741667	508.00	508.00	51.78465	0.34620	52.13086	0	14.8 %
373	16.075000	41.741667	557.00	557.00	54.99459	0.39635	55.39093	0	14.84 %
374	16.091667	41.741667	295.00	295.00	26.83700	0.01640	26.85340	0	14.88 %
375	16.108333	41.741667	227.00	227.00	19.16083	-0.07269	19.08814	0	14.92 %
376	16.125000	41.741667	158.00	158.00	12.19220	-0.15517	12.03703	0	14.96 %
377	16.141667	41.741667	122.00	122.00	5.68873	-0.19087	5.49787	0	15.0 %
378	16.158333	41.741667	0.00	-10.60	-1.61982	-0.30765	-1.92747	1	15.04 %
379	16.175000	41.741667	0.00	-11.85	-1.26498	-0.28804	-1.55302	1	15.08 %
380	16.191667	41.741667	0.00	-13.40	-1.15156	-0.26174	-1.41330	1	15.12 %
381	16.208333	41.741667	0.00	-14.10	-1.09145	-0.23690	-1.32835	1	15.16 %
382	16.225000	41.741667	0.00	-15.30	-1.11386	-0.20683	-1.32069	1	15.2 %

383	16.241667	41.741667	0.00	-16.60	-1.17193	-0.18016	-1.35209	1	15.24 %
384	16.258333	41.741667	0.00	-18.20	-1.26301	-0.15485	-1.41786	1	15.28 %
385	16.275000	41.741667	0.00	-19.90	-1.37612	-0.13185	-1.50797	1	15.32 %
386	16.291667	41.741667	0.00	-22.30	-1.54335	-0.11241	-1.65575	1	15.36 %
387	16.308333	41.741667	0.00	-25.40	-1.76591	-0.09673	-1.86265	1	15.4 %
388	16.325000	41.741667	0.00	-30.40	-2.10958	-0.08557	-2.19515	1	15.44 %
389	16.341667	41.741667	0.00	-36.80	-2.52962	-0.07631	-2.60593	1	15.48 %
390	16.358333	41.741667	0.00	-42.35	-2.89333	-0.07084	-2.96417	1	15.52 %
391	16.375000	41.741667	0.00	-47.70	-3.26186	-0.06587	-3.32773	1	15.56 %
392	16.391667	41.741667	0.00	-52.50	-3.59629	-0.06365	-3.65994	1	15.6 %
393	16.408333	41.741667	0.00	-59.15	-4.05019	-0.06184	-4.11204	1	15.63 %
394	16.425000	41.741667	0.00	-65.40	-4.46538	-0.06178	-4.52716	1	15.67 %
395	16.441667	41.741667	0.00	-71.05	-4.85527	-0.06239	-4.91767	1	15.71 %
396	16.458333	41.741667	0.00	-75.75	-5.17762	-0.06418	-5.24180	1	15.75 %
397	16.475000	41.741667	0.00	-79.20	-5.42078	-0.06684	-5.48762	1	15.79 %
398	16.491667	41.741667	0.00	-82.90	-5.68135	-0.07039	-5.75174	1	15.83 %
399	16.508333	41.741667	0.00	-86.30	-5.89985	-0.07484	-5.97469	1	15.87 %
400	16.525000	41.741667	0.00	-88.50	-6.05571	-0.08012	-6.13583	1	15.91 %
401	16.541667	41.741667	0.00	-90.40	-6.18873	-0.08641	-6.27514	1	15.95 %
402	16.558333	41.741667	0.00	-92.10	-6.30882	-0.09356	-6.40238	1	15.99 %
403	16.575000	41.741667	0.00	-93.75	-6.41688	-0.10174	-6.51862	1	16.03 %
404	16.591667	41.741667	0.00	-94.60	-6.47995	-0.11104	-6.59099	1	16.07 %
405	16.608333	41.741667	0.00	-95.90	-6.56806	-0.12141	-6.68947	1	16.11 %
406	16.625000	41.741667	0.00	-97.95	-6.70767	-0.13321	-6.84088	1	16.15 %
407	16.641667	41.741667	0.00	-99.50	-6.82200	-0.14616	-6.96816	1	16.19 %
408	16.658333	41.741667	0.00	-101.90	-6.97735	-0.16087	-7.13822	1	16.23 %
409	16.675000	41.741667	0.00	-104.30	-7.18834	-0.17716	-7.36550	1	16.27 %
410	16.691667	41.741667	0.00	-105.60	-7.34320	-0.19582	-7.53902	1	16.31 %
411	16.708333	41.741667	0.00	-110.50	-7.60999	-0.21699	-7.82698	1	16.35 %
412	16.725000	41.741667	0.00	-113.50	-7.82430	-0.24131	-8.06561	1	16.39 %
413	16.741667	41.741667	0.00	-121.70	-8.29168	-0.26940	-8.56108	1	16.43 %
414	16.758333	41.741667	0.00	-131.35	-8.94667	-0.30147	-9.24814	1	16.47 %
415	16.775000	41.741667	0.00	-135.95	-9.28004	-0.33825	-9.61829	1	16.51 %
416	16.791667	41.741667	0.00	-139.05	-9.52761	-0.37777	-9.90538	1	16.55 %
417	16.808333	41.741667	0.00	-144.20	-9.87590	-0.42093	-10.29683	1	16.59 %
418	16.825000	41.741667	0.00	-148.65	-10.27799	-0.46513	-10.74311	1	16.63 %
419	16.841667	41.741667	0.00	-157.35	-10.87544	-0.51260	-11.38804	1	16.67 %
420	15.858333	41.725000	729.00	729.00	75.87087	1.01955	76.89042	0	16.71 %
421	15.875000	41.725000	734.00	734.00	74.85257	1.01517	75.86774	0	16.75 %
422	15.891667	41.725000	653.00	653.00	68.01552	0.82353	68.83906	0	16.79 %
423	15.908333	41.725000	636.00	636.00	66.16442	0.77248	66.93690	0	16.83 %

424	15.925000	41.725000	609.00	609.00	63.74826	0.69388	64.44214	0	16.87 %
425	15.941667	41.725000	604.00	604.00	62.74440	0.67159	63.41599	0	16.9 %
426	15.958333	41.725000	692.00	692.00	70.96379	0.81761	71.78139	0	16.94 %
427	15.975000	41.725000	595.00	595.00	62.18997	0.61524	62.80521	0	16.98 %
428	15.991667	41.725000	615.00	615.00	63.66278	0.62511	64.28789	0	17.02 %
429	16.008333	41.725000	592.00	592.00	60.64078	0.55912	61.19991	0	17.06 %
430	16.025000	41.725000	502.00	502.00	50.30879	0.38475	50.69354	0	17.1 %
431	16.041667	41.725000	334.00	334.00	31.15392	0.08513	31.23906	0	17.14 %
432	16.058333	41.725000	238.00	238.00	21.07419	-0.07109	21.00311	0	17.18 %
433	16.075000	41.725000	112.00	112.00	8.64222	-0.25870	8.38352	0	17.22 %
434	16.091667	41.725000	192.00	192.00	17.37037	-0.12913	17.24125	0	17.26 %
435	16.108333	41.725000	0.00	-4.85	-2.42027	-0.37435	-2.79462	1	17.3 %
436	16.125000	41.725000	0.00	-9.40	-1.70024	-0.34641	-2.04665	1	17.34 %
437	16.141667	41.725000	0.00	-10.50	-1.36841	-0.32269	-1.69111	1	17.38 %
438	16.158333	41.725000	0.00	-11.55	-1.18679	-0.29282	-1.47961	1	17.42 %
439	16.175000	41.725000	0.00	-12.60	-1.09638	-0.26804	-1.36442	1	17.46 %
440	16.191667	41.725000	0.00	-13.40	-1.05066	-0.23981	-1.29047	1	17.5 %
441	16.208333	41.725000	0.00	-14.00	-1.03445	-0.21434	-1.24880	1	17.54 %
442	16.225000	41.725000	0.00	-15.40	-1.09795	-0.18590	-1.28385	1	17.58 %
443	16.241667	41.725000	0.00	-16.65	-1.16686	-0.16138	-1.32824	1	17.62 %
444	16.258333	41.725000	0.00	-18.30	-1.26792	-0.13868	-1.40660	1	17.66 %
445	16.275000	41.725000	0.00	-19.70	-1.36524	-0.11886	-1.48410	1	17.7 %
446	16.291667	41.725000	0.00	-22.10	-1.53001	-0.10185	-1.63186	1	17.74 %
447	16.308333	41.725000	0.00	-25.00	-1.73664	-0.08886	-1.82550	1	17.78 %
448	16.325000	41.725000	0.00	-30.60	-2.11732	-0.07922	-2.19653	1	17.82 %
449	16.341667	41.725000	0.00	-36.10	-2.49503	-0.07139	-2.56642	1	17.86 %
450	16.358333	41.725000	0.00	-41.45	-2.83865	-0.06655	-2.90520	1	17.9 %
451	16.375000	41.725000	0.00	-46.40	-3.17390	-0.06244	-3.23634	1	17.94 %
452	16.391667	41.725000	0.00	-51.40	-3.52728	-0.06041	-3.58769	1	17.98 %
453	16.408333	41.725000	0.00	-58.30	-3.98459	-0.05899	-4.04358	1	18.02 %
454	16.425000	41.725000	0.00	-64.25	-4.39243	-0.05903	-4.45146	1	18.06 %
455	16.441667	41.725000	0.00	-69.80	-4.77174	-0.05979	-4.83153	1	18.1 %
456	16.458333	41.725000	0.00	-75.15	-5.13349	-0.06161	-5.19511	1	18.13 %
457	16.475000	41.725000	0.00	-78.50	-5.38341	-0.06422	-5.44763	1	18.17 %
458	16.491667	41.725000	0.00	-82.65	-5.64701	-0.06773	-5.71474	1	18.21 %
459	16.508333	41.725000	0.00	-85.50	-5.85219	-0.07206	-5.92425	1	18.25 %
460	16.525000	41.725000	0.00	-87.70	-6.00163	-0.07721	-6.07884	1	18.29 %
461	16.541667	41.725000	0.00	-89.65	-6.13740	-0.08329	-6.22069	1	18.33 %
462	16.558333	41.725000	0.00	-91.60	-6.27475	-0.09018	-6.36493	1	18.37 %
463	16.575000	41.725000	0.00	-93.50	-6.40088	-0.09809	-6.49897	1	18.41 %

464	16.591667	41.725000	0.00	-95.10	-6.51034	-0.10705	-6.61740	1	18.45 %
465	16.608333	41.725000	0.00	-96.20	-6.58824	-0.11706	-6.70530	1	18.49 %
466	16.625000	41.725000	0.00	-97.70	-6.69139	-0.12841	-6.81980	1	18.53 %
467	16.641667	41.725000	0.00	-99.25	-6.80122	-0.14090	-6.94213	1	18.57 %
468	16.658333	41.725000	0.00	-101.10	-6.92684	-0.15501	-7.08185	1	18.61 %
469	16.675000	41.725000	0.00	-105.85	-7.16526	-0.17070	-7.33596	1	18.65 %
470	16.691667	41.725000	0.00	-107.50	-7.35847	-0.18862	-7.54709	1	18.69 %
471	16.708333	41.725000	0.00	-108.60	-7.45388	-0.20886	-7.66273	1	18.73 %
472	16.725000	41.725000	0.00	-111.75	-7.65902	-0.23205	-7.89106	1	18.77 %
473	16.741667	41.725000	0.00	-117.80	-8.07769	-0.25897	-8.33666	1	18.81 %
474	16.758333	41.725000	0.00	-126.95	-8.65373	-0.28973	-8.94346	1	18.85 %
475	16.775000	41.725000	0.00	-133.40	-9.11140	-0.32497	-9.43637	1	18.89 %
476	16.791667	41.725000	0.00	-137.90	-9.42495	-0.36297	-9.78792	1	18.93 %
477	16.808333	41.725000	0.00	-143.95	-9.82775	-0.40439	-10.23214	1	18.97 %
478	16.825000	41.725000	0.00	-146.70	-10.09003	-0.44687	-10.53690	1	19.01 %
479	16.841667	41.725000	0.00	-153.60	-10.59605	-0.49285	-11.08890	1	19.05 %
480	15.858333	41.708333	573.00	573.00	60.78288	0.67752	61.46040	0	19.09 %
481	15.875000	41.708333	623.00	623.00	66.67637	0.76756	67.44393	0	19.13 %
482	15.891667	41.708333	732.00	732.00	77.23494	0.98439	78.21933	0	19.17 %
483	15.908333	41.708333	785.00	785.00	81.72400	1.06537	82.78937	0	19.21 %
484	15.925000	41.708333	827.00	827.00	83.17062	1.12225	84.29287	0	19.25 %
485	15.941667	41.708333	821.00	821.00	81.51053	1.08222	82.59275	0	19.29 %
486	15.958333	41.708333	753.00	753.00	74.09276	0.92448	75.01724	0	19.33 %
487	15.975000	41.708333	591.00	591.00	55.28355	0.59928	55.88283	0	19.37 %
488	15.991667	41.708333	365.00	365.00	31.53074	0.16567	31.69641	0	19.4 %
489	16.008333	41.708333	320.00	320.00	29.07430	0.07510	29.14940	0	19.44 %
490	16.025000	41.708333	264.00	264.00	24.41478	-0.03351	24.38126	0	19.48 %
491	16.041667	41.708333	120.00	120.00	9.15664	-0.27881	8.87784	0	19.52 %
492	16.058333	41.708333	26.00	26.00	0.42164	-0.42277	-0.00113	0	19.56 %
493	16.075000	41.708333	0.00	-0.04	-1.72507	-0.44177	-2.16684	1	19.6 %
494	16.091667	41.708333	0.00	-8.20	-1.69991	-0.41160	-2.11151	1	19.64 %
495	16.108333	41.708333	0.00	-10.05	-1.40881	-0.37961	-1.78842	1	19.68 %
496	16.125000	41.708333	0.00	-10.65	-1.19382	-0.34549	-1.53931	1	19.72 %
497	16.141667	41.708333	0.00	-11.55	-1.09115	-0.31686	-1.40801	1	19.76 %
498	16.158333	41.708333	0.00	-12.20	-1.02617	-0.28148	-1.30766	1	19.8 %
499	16.175000	41.708333	0.00	-12.60	-0.98278	-0.25245	-1.23523	1	19.84 %
500	16.191667	41.708333	0.00	-13.20	-0.97270	-0.22216	-1.19486	1	19.88 %
501	16.208333	41.708333	0.00	-13.80	-0.98962	-0.19593	-1.18555	1	19.92 %
502	16.225000	41.708333	0.00	-15.20	-1.06893	-0.16871	-1.23764	1	19.96 %
503	16.241667	41.708333	0.00	-16.95	-1.17407	-0.14590	-1.31997	1	20.0 %
504	16.258333	41.708333	0.00	-18.40	-1.27223	-0.12550	-1.39772	1	20.04 %

505	16.275000	41.708333	0.00	-19.70	-1.36463	-0.10806	-1.47269	1	20.08 %
506	16.291667	41.708333	0.00	-22.10	-1.53069	-0.09386	-1.62455	1	20.12 %
507	16.308333	41.708333	0.00	-25.35	-1.76540	-0.08218	-1.84757	1	20.16 %
508	16.325000	41.708333	0.00	-31.10	-2.14785	-0.07405	-2.22190	1	20.2 %
509	16.341667	41.708333	0.00	-35.65	-2.46531	-0.06707	-2.53238	1	20.24 %
510	16.358333	41.708333	0.00	-41.20	-2.81920	-0.06288	-2.88207	1	20.28 %
511	16.375000	41.708333	0.00	-45.65	-3.12703	-0.05921	-3.18625	1	20.32 %
512	16.391667	41.708333	0.00	-51.00	-3.50439	-0.05748	-3.56187	1	20.36 %
513	16.408333	41.708333	0.00	-57.10	-3.90625	-0.05635	-3.96260	1	20.4 %
514	16.425000	41.708333	0.00	-62.95	-4.30145	-0.05650	-4.35795	1	20.44 %
515	16.441667	41.708333	0.00	-68.40	-4.68027	-0.05735	-4.73763	1	20.48 %
516	16.458333	41.708333	0.00	-74.00	-5.06096	-0.05922	-5.12017	1	20.52 %
517	16.475000	41.708333	0.00	-78.25	-5.34693	-0.06177	-5.40871	1	20.56 %
518	16.491667	41.708333	0.00	-81.70	-5.58479	-0.06526	-5.65005	1	20.6 %
519	16.508333	41.708333	0.00	-84.50	-5.78185	-0.06941	-5.85126	1	20.63 %
520	16.525000	41.708333	0.00	-87.00	-5.95592	-0.07442	-6.03033	1	20.67 %
521	16.541667	41.708333	0.00	-89.35	-6.12278	-0.08026	-6.20304	1	20.71 %
522	16.558333	41.708333	0.00	-91.35	-6.25370	-0.08698	-6.34068	1	20.75 %
523	16.575000	41.708333	0.00	-93.15	-6.37524	-0.09454	-6.46978	1	20.79 %
524	16.591667	41.708333	0.00	-94.90	-6.49092	-0.10318	-6.59410	1	20.83 %
525	16.608333	41.708333	0.00	-96.10	-6.58244	-0.11277	-6.69521	1	20.87 %
526	16.625000	41.708333	0.00	-97.90	-6.69864	-0.12367	-6.82230	1	20.91 %
527	16.641667	41.708333	0.00	-99.40	-6.81353	-0.13568	-6.94921	1	20.95 %
528	16.658333	41.708333	0.00	-101.45	-6.94916	-0.14921	-7.09836	1	20.99 %
529	16.675000	41.708333	0.00	-106.25	-7.19831	-0.16423	-7.36254	1	21.03 %
530	16.691667	41.708333	0.00	-104.80	-7.20485	-0.18130	-7.38615	1	21.07 %
531	16.708333	41.708333	0.00	-108.50	-7.43798	-0.20069	-7.63867	1	21.11 %
532	16.725000	41.708333	0.00	-113.30	-7.77615	-0.22276	-7.99891	1	21.15 %
533	16.741667	41.708333	0.00	-115.85	-7.94564	-0.24835	-8.19399	1	21.19 %
534	16.758333	41.708333	0.00	-124.80	-8.50491	-0.27759	-8.78251	1	21.23 %
535	16.775000	41.708333	0.00	-132.65	-9.05104	-0.31115	-9.36220	1	21.27 %
536	16.791667	41.708333	0.00	-137.90	-9.40864	-0.34726	-9.75591	1	21.31 %
537	16.808333	41.708333	0.00	-142.40	-9.74420	-0.38678	-10.13098	1	21.35 %
538	16.825000	41.708333	0.00	-147.25	-10.06912	-0.42745	-10.49657	1	21.39 %
539	16.841667	41.708333	0.00	-146.35	-10.23513	-0.47195	-10.70709	1	21.43 %
540	15.858333	41.691667	477.00	477.00	50.55736	0.45589	51.01324	0	21.47 %
541	15.875000	41.691667	564.00	564.00	60.04840	0.62328	60.67168	0	21.51 %
542	15.891667	41.691667	609.00	609.00	63.59976	0.70433	64.30409	0	21.55 %
543	15.908333	41.691667	645.00	645.00	65.59284	0.75605	66.34889	0	21.59 %
544	15.925000	41.691667	630.00	630.00	63.24061	0.70846	63.94906	0	21.63 %

545	15.941667	41.691667	540.00	540.00	55.00556	0.51518	55.52074	0	21.67 %
546	15.958333	41.691667	464.00	464.00	41.98996	0.35976	42.34972	0	21.71 %
547	15.975000	41.691667	565.00	565.00	52.76479	0.53375	53.29854	0	21.75 %
548	15.991667	41.691667	361.00	361.00	33.71385	0.14781	33.86166	0	21.79 %
549	16.008333	41.691667	419.00	419.00	36.98652	0.24113	37.22765	0	21.83 %
550	16.025000	41.691667	432.00	432.00	38.68748	0.25223	38.93971	0	21.87 %
551	16.041667	41.691667	274.00	274.00	25.59175	-0.02691	25.56485	0	21.9 %
552	16.058333	41.691667	109.00	109.00	4.92739	-0.29413	4.63326	0	21.94 %
553	16.075000	41.691667	0.00	-8.30	-1.31038	-0.44703	-1.75741	1	21.98 %
554	16.091667	41.691667	0.00	-9.95	-1.14491	-0.41442	-1.55933	1	22.02 %
555	16.108333	41.691667	0.00	-11.00	-1.06350	-0.38092	-1.44442	1	22.06 %
556	16.125000	41.691667	0.00	-11.60	-0.99559	-0.34290	-1.33850	1	22.1 %
557	16.141667	41.691667	0.00	-12.20	-0.96298	-0.31105	-1.27402	1	22.14 %
558	16.158333	41.691667	0.00	-12.55	-0.94134	-0.27175	-1.21310	1	22.18 %
559	16.175000	41.691667	0.00	-12.80	-0.93093	-0.24001	-1.17094	1	22.22 %
560	16.191667	41.691667	0.00	-13.25	-0.94011	-0.20763	-1.14773	1	22.26 %
561	16.208333	41.691667	0.00	-14.00	-0.98078	-0.18085	-1.16163	1	22.3 %
562	16.225000	41.691667	0.00	-15.40	-1.07108	-0.15430	-1.22538	1	22.34 %
563	16.241667	41.691667	0.00	-17.15	-1.18434	-0.13291	-1.31724	1	22.38 %
564	16.258333	41.691667	0.00	-18.50	-1.27743	-0.11426	-1.39168	1	22.42 %
565	16.275000	41.691667	0.00	-19.75	-1.36832	-0.09894	-1.46726	1	22.46 %
566	16.291667	41.691667	0.00	-22.30	-1.55044	-0.08660	-1.63704	1	22.5 %
567	16.308333	41.691667	0.00	-26.30	-1.81391	-0.07656	-1.89047	1	22.54 %
568	16.325000	41.691667	0.00	-31.00	-2.14154	-0.06958	-2.21112	1	22.58 %
569	16.341667	41.691667	0.00	-35.00	-2.42058	-0.06344	-2.48402	1	22.62 %
570	16.358333	41.691667	0.00	-40.40	-2.76266	-0.05977	-2.82243	1	22.66 %
571	16.375000	41.691667	0.00	-45.05	-3.09219	-0.05648	-3.14867	1	22.7 %
572	16.391667	41.691667	0.00	-51.00	-3.48395	-0.05506	-3.53901	1	22.74 %
573	16.408333	41.691667	0.00	-56.50	-3.86682	-0.05406	-3.92088	1	22.78 %
574	16.425000	41.691667	0.00	-61.75	-4.22136	-0.05436	-4.27571	1	22.82 %
575	16.441667	41.691667	0.00	-67.40	-4.60989	-0.05522	-4.66511	1	22.86 %
576	16.458333	41.691667	0.00	-73.00	-5.00034	-0.05705	-5.05740	1	22.9 %
577	16.475000	41.691667	0.00	-77.20	-5.27796	-0.05960	-5.33756	1	22.94 %
578	16.491667	41.691667	0.00	-80.85	-5.52756	-0.06293	-5.59049	1	22.98 %
579	16.508333	41.691667	0.00	-83.70	-5.72864	-0.06702	-5.79566	1	23.02 %
580	16.525000	41.691667	0.00	-86.40	-5.91861	-0.07180	-5.99041	1	23.06 %
581	16.541667	41.691667	0.00	-89.40	-6.11158	-0.07745	-6.18904	1	23.1 %
582	16.558333	41.691667	0.00	-91.10	-6.23327	-0.08391	-6.31718	1	23.13 %
583	16.575000	41.691667	0.00	-92.55	-6.33550	-0.09117	-6.42667	1	23.17 %
584	16.591667	41.691667	0.00	-94.00	-6.43464	-0.09946	-6.53410	1	23.21 %
585	16.608333	41.691667	0.00	-95.35	-6.53221	-0.10861	-6.64082	1	23.25 %

586	16.625000	41.691667	0.00	-98.10	-6.70494	-0.11906	-6.82400	1	23.29 %
587	16.641667	41.691667	0.00	-100.45	-6.87617	-0.13057	-7.00673	1	23.33 %
588	16.658333	41.691667	0.00	-102.80	-7.03490	-0.14350	-7.17840	1	23.37 %
589	16.675000	41.691667	0.00	-104.90	-7.18716	-0.15785	-7.34501	1	23.41 %
590	16.691667	41.691667	0.00	-111.75	-7.51510	-0.17406	-7.68917	1	23.45 %
591	16.708333	41.691667	0.00	-109.70	-7.56922	-0.19250	-7.76172	1	23.49 %
592	16.725000	41.691667	0.00	-112.20	-7.68593	-0.21342	-7.89935	1	23.53 %
593	16.741667	41.691667	0.00	-116.10	-7.95722	-0.23765	-8.19487	1	23.57 %
594	16.758333	41.691667	0.00	-121.20	-8.29294	-0.26536	-8.55830	1	23.61 %
595	16.775000	41.691667	0.00	-129.90	-8.84751	-0.29699	-9.14450	1	23.65 %
596	16.791667	41.691667	0.00	-134.45	-9.16146	-0.33112	-9.49258	1	23.69 %
597	16.808333	41.691667	0.00	-139.45	-9.51938	-0.36848	-9.88786	1	23.73 %
598	16.825000	41.691667	0.00	-142.60	-9.78645	-0.40737	-10.19382	1	23.77 %
599	16.841667	41.691667	0.00	-145.20	-10.04678	-0.45012	-10.49690	1	23.81 %
600	15.858333	41.675000	493.00	493.00	52.22462	0.46929	52.69391	0	23.85 %
601	15.875000	41.675000	501.00	501.00	52.50506	0.47448	52.97954	0	23.89 %
602	15.891667	41.675000	500.00	500.00	51.50612	0.46082	51.96694	0	23.93 %
603	15.908333	41.675000	448.00	448.00	41.67541	0.34777	42.02318	0	23.97 %
604	15.925000	41.675000	417.00	417.00	41.92073	0.27629	42.19701	0	24.01 %
605	15.941667	41.675000	272.00	272.00	25.87755	-0.00515	25.87240	0	24.05 %
606	15.958333	41.675000	202.00	202.00	16.90902	-0.13939	16.76963	0	24.09 %
607	15.975000	41.675000	117.00	117.00	9.57112	-0.29265	9.27848	0	24.13 %
608	15.991667	41.675000	74.00	74.00	5.36081	-0.36471	4.99610	0	24.17 %
609	16.008333	41.675000	53.00	53.00	3.72603	-0.39413	3.33190	0	24.21 %
610	16.025000	41.675000	19.00	19.00	-0.05380	-0.44315	-0.49695	0	24.25 %
611	16.041667	41.675000	0.00	-4.95	-1.45619	-0.45814	-1.91433	1	24.29 %
612	16.058333	41.675000	0.00	-9.00	-1.20865	-0.43739	-1.64604	1	24.33 %
613	16.075000	41.675000	0.00	-10.45	-1.05695	-0.41201	-1.46895	1	24.37 %
614	16.091667	41.675000	0.00	-11.20	-0.97522	-0.38004	-1.35526	1	24.4 %
615	16.108333	41.675000	0.00	-11.50	-0.92510	-0.34727	-1.27237	1	24.44 %
616	16.125000	41.675000	0.00	-12.20	-0.91888	-0.31039	-1.22927	1	24.48 %
617	16.141667	41.675000	0.00	-12.50	-0.91034	-0.27842	-1.18876	1	24.52 %
618	16.158333	41.675000	0.00	-12.95	-0.92006	-0.24075	-1.16081	1	24.56 %
619	16.175000	41.675000	0.00	-13.20	-0.92934	-0.20995	-1.13929	1	24.6 %
620	16.191667	41.675000	0.00	-13.80	-0.95958	-0.17957	-1.13915	1	24.64 %
621	16.208333	41.675000	0.00	-14.60	-1.01323	-0.15665	-1.16987	1	24.68 %
622	16.225000	41.675000	0.00	-16.15	-1.11418	-0.13312	-1.24730	1	24.72 %
623	16.241667	41.675000	0.00	-17.50	-1.20782	-0.11572	-1.32354	1	24.76 %
624	16.258333	41.675000	0.00	-18.90	-1.30585	-0.09992	-1.40577	1	24.8 %
625	16.275000	41.675000	0.00	-20.30	-1.40807	-0.08781	-1.49589	1	24.84 %

626	16.291667	41.675000	0.00	-23.20	-1.59680	-0.07776	-1.67456	1	24.88 %
627	16.308333	41.675000	0.00	-26.80	-1.85391	-0.06968	-1.92358	1	24.92 %
628	16.325000	41.675000	0.00	-30.90	-2.13774	-0.06375	-2.20150	1	24.96 %
629	16.341667	41.675000	0.00	-34.70	-2.40028	-0.05866	-2.45894	1	25.0 %
630	16.358333	41.675000	0.00	-39.80	-2.72263	-0.05566	-2.77828	1	25.04 %
631	16.375000	41.675000	0.00	-45.10	-3.08568	-0.05301	-3.13869	1	25.08 %
632	16.391667	41.675000	0.00	-50.25	-3.43636	-0.05189	-3.48826	1	25.12 %
633	16.408333	41.675000	0.00	-55.75	-3.81575	-0.05113	-3.86688	1	25.16 %
634	16.425000	41.675000	0.00	-60.75	-4.15410	-0.05168	-4.20578	1	25.2 %
635	16.441667	41.675000	0.00	-66.40	-4.55515	-0.05268	-4.60783	1	25.24 %
636	16.458333	41.675000	0.00	-71.80	-4.90543	-0.05457	-4.96000	1	25.28 %
637	16.475000	41.675000	0.00	-76.10	-5.19992	-0.05712	-5.25704	1	25.32 %
638	16.491667	41.675000	0.00	-80.10	-5.47511	-0.06039	-5.53550	1	25.36 %
639	16.508333	41.675000	0.00	-83.10	-5.68910	-0.06437	-5.75347	1	25.4 %
640	16.525000	41.675000	0.00	-86.20	-5.89780	-0.06904	-5.96684	1	25.44 %
641	16.541667	41.675000	0.00	-88.60	-6.05990	-0.07454	-6.13444	1	25.48 %
642	16.558333	41.675000	0.00	-90.50	-6.19555	-0.08068	-6.27622	1	25.52 %
643	16.575000	41.675000	0.00	-91.95	-6.29289	-0.08773	-6.38063	1	25.56 %
644	16.591667	41.675000	0.00	-93.20	-6.38633	-0.09563	-6.48196	1	25.6 %
645	16.608333	41.675000	0.00	-94.70	-6.48609	-0.10446	-6.59054	1	25.63 %
646	16.625000	41.675000	0.00	-98.00	-6.69651	-0.11441	-6.81092	1	25.67 %
647	16.641667	41.675000	0.00	-101.00	-6.90916	-0.12540	-7.03456	1	25.71 %
648	16.658333	41.675000	0.00	-103.50	-7.07964	-0.13778	-7.21742	1	25.75 %
649	16.675000	41.675000	0.00	-105.60	-7.22368	-0.15144	-7.37512	1	25.79 %
650	16.691667	41.675000	0.00	-107.10	-7.33203	-0.16689	-7.49892	1	25.83 %
651	16.708333	41.675000	0.00	-109.60	-7.49523	-0.18433	-7.67955	1	25.87 %
652	16.725000	41.675000	0.00	-112.00	-7.66145	-0.20403	-7.86549	1	25.91 %
653	16.741667	41.675000	0.00	-114.95	-7.86886	-0.22684	-8.09569	1	25.95 %
654	16.758333	41.675000	0.00	-119.50	-8.17243	-0.25277	-8.42520	1	25.99 %
655	16.775000	41.675000	0.00	-125.70	-8.57670	-0.28249	-8.85918	1	26.03 %
656	16.791667	41.675000	0.00	-130.15	-8.89138	-0.31429	-9.20567	1	26.07 %
657	16.808333	41.675000	0.00	-134.70	-9.22094	-0.34937	-9.57030	1	26.11 %
658	16.825000	41.675000	0.00	-139.70	-9.56348	-0.38611	-9.94959	1	26.15 %
659	16.841667	41.675000	0.00	-144.40	-9.93318	-0.42693	-10.36011	1	26.19 %
660	15.858333	41.658333	275.00	275.00	24.38081	0.01001	24.39081	0	26.23 %
661	15.875000	41.658333	225.00	225.00	19.79385	-0.08884	19.70501	0	26.27 %
662	15.891667	41.658333	141.00	141.00	12.57304	-0.25146	12.32158	0	26.31 %
663	15.908333	41.658333	119.00	119.00	10.75907	-0.28899	10.47007	0	26.35 %
664	15.925000	41.658333	105.00	105.00	8.77139	-0.31241	8.45898	0	26.39 %
665	15.941667	41.658333	68.00	68.00	5.33992	-0.37455	4.96537	0	26.43 %
666	15.958333	41.658333	51.00	51.00	3.80969	-0.40004	3.40965	0	26.47 %

667	15.975000	41.658333	0.00	29.00	-2.92911	-0.47807	-3.40718	1	26.51 %
668	15.991667	41.658333	0.00	-5.25	-1.33713	-0.46497	-1.80211	1	26.55 %
669	16.008333	41.658333	0.00	-8.70	-1.30199	-0.44927	-1.75126	1	26.59 %
670	16.025000	41.658333	0.00	-10.00	-1.19701	-0.43254	-1.62955	1	26.63 %
671	16.041667	41.658333	0.00	-10.50	-1.07421	-0.41100	-1.48521	1	26.67 %
672	16.058333	41.658333	0.00	-11.00	-0.98487	-0.38612	-1.37099	1	26.71 %
673	16.075000	41.658333	0.00	-11.25	-0.92038	-0.35902	-1.27940	1	26.75 %
674	16.091667	41.658333	0.00	-11.70	-0.89434	-0.32694	-1.22128	1	26.79 %
675	16.108333	41.658333	0.00	-12.10	-0.88407	-0.29584	-1.17990	1	26.83 %
676	16.125000	41.658333	0.00	-12.40	-0.88449	-0.26223	-1.14672	1	26.87 %
677	16.141667	41.658333	0.00	-13.00	-0.90845	-0.23364	-1.14210	1	26.9 %
678	16.158333	41.658333	0.00	-13.40	-0.92739	-0.20115	-1.12854	1	26.94 %
679	16.175000	41.658333	0.00	-13.75	-0.95085	-0.17505	-1.12589	1	26.98 %
680	16.191667	41.658333	0.00	-14.40	-0.99193	-0.15063	-1.14256	1	27.02 %
681	16.208333	41.658333	0.00	-15.25	-1.05562	-0.13089	-1.18651	1	27.06 %
682	16.225000	41.658333	0.00	-16.70	-1.15513	-0.11311	-1.26824	1	27.1 %
683	16.241667	41.658333	0.00	-18.00	-1.24328	-0.09888	-1.34216	1	27.14 %
684	16.258333	41.658333	0.00	-19.30	-1.33342	-0.08685	-1.42027	1	27.18 %
685	16.275000	41.658333	0.00	-21.10	-1.45683	-0.07698	-1.53381	1	27.22 %
686	16.291667	41.658333	0.00	-23.55	-1.62817	-0.06910	-1.69726	1	27.26 %
687	16.308333	41.658333	0.00	-27.00	-1.87234	-0.06240	-1.93474	1	27.3 %
688	16.325000	41.658333	0.00	-31.10	-2.14715	-0.05754	-2.20469	1	27.34 %
689	16.341667	41.658333	0.00	-34.80	-2.40604	-0.05355	-2.45958	1	27.38 %
690	16.358333	41.658333	0.00	-39.75	-2.72501	-0.05112	-2.77614	1	27.42 %
691	16.375000	41.658333	0.00	-45.30	-3.09691	-0.04909	-3.14600	1	27.46 %
692	16.391667	41.658333	0.00	-49.50	-3.39104	-0.04836	-3.43939	1	27.5 %
693	16.408333	41.658333	0.00	-54.40	-3.72619	-0.04801	-3.77421	1	27.54 %
694	16.425000	41.658333	0.00	-59.30	-4.07097	-0.04869	-4.11966	1	27.58 %
695	16.441667	41.658333	0.00	-65.65	-4.48262	-0.04985	-4.53246	1	27.62 %
696	16.458333	41.658333	0.00	-70.00	-4.78579	-0.05180	-4.83759	1	27.66 %
697	16.475000	41.658333	0.00	-74.80	-5.10930	-0.05433	-5.16363	1	27.7 %
698	16.491667	41.658333	0.00	-79.05	-5.40369	-0.05764	-5.46133	1	27.74 %
699	16.508333	41.658333	0.00	-82.25	-5.63250	-0.06153	-5.69403	1	27.78 %
700	16.525000	41.658333	0.00	-85.10	-5.82151	-0.06613	-5.88764	1	27.82 %
701	16.541667	41.658333	0.00	-87.50	-5.98872	-0.07143	-6.06015	1	27.86 %
702	16.558333	41.658333	0.00	-89.90	-6.14660	-0.07738	-6.22398	1	27.9 %
703	16.575000	41.658333	0.00	-91.20	-6.24638	-0.08415	-6.33053	1	27.94 %
704	16.591667	41.658333	0.00	-92.65	-6.34281	-0.09173	-6.43454	1	27.98 %
705	16.608333	41.658333	0.00	-94.20	-6.45077	-0.10020	-6.55097	1	28.02 %
706	16.625000	41.658333	0.00	-97.00	-6.63367	-0.10968	-6.74336	1	28.06 %

707	16.641667	41.658333	0.00	-100.45	-6.87270	-0.12019	-6.99289	1	28.1 %
708	16.658333	41.658333	0.00	-102.60	-7.01487	-0.13193	-7.14680	1	28.13 %
709	16.675000	41.658333	0.00	-104.80	-7.16282	-0.14495	-7.30777	1	28.17 %
710	16.691667	41.658333	0.00	-106.50	-7.28559	-0.15950	-7.44509	1	28.21 %
711	16.708333	41.658333	0.00	-108.55	-7.42806	-0.17607	-7.60412	1	28.25 %
712	16.725000	41.658333	0.00	-110.90	-7.58940	-0.19454	-7.78394	1	28.29 %
713	16.741667	41.658333	0.00	-113.55	-7.76634	-0.21588	-7.98223	1	28.33 %
714	16.758333	41.658333	0.00	-117.20	-8.01634	-0.24000	-8.25634	1	28.37 %
715	16.775000	41.658333	0.00	-122.35	-8.36046	-0.26747	-8.62794	1	28.41 %
716	16.791667	41.658333	0.00	-126.40	-8.65298	-0.29706	-8.95003	1	28.45 %
717	16.808333	41.658333	0.00	-131.40	-8.98253	-0.32974	-9.31227	1	28.49 %
718	16.825000	41.658333	0.00	-135.65	-9.27877	-0.36441	-9.64318	1	28.53 %
719	16.841667	41.658333	0.00	-139.00	-9.55823	-0.40336	-9.96159	1	28.57 %
720	15.858333	41.641667	102.00	102.00	10.00874	-0.32285	9.68590	0	28.61 %
721	15.875000	41.641667	84.00	84.00	8.01627	-0.35027	7.66599	0	28.65 %
722	15.891667	41.641667	61.00	61.00	5.64314	-0.38619	5.25695	0	28.69 %
723	15.908333	41.641667	46.00	46.00	3.94852	-0.40485	3.54367	0	28.73 %
724	15.925000	41.641667	0.00	0.00	-1.08410	-0.47864	-1.56273	1	28.77 %
725	15.941667	41.641667	0.00	0.00	-0.79056	-0.46699	-1.25755	1	28.81 %
726	15.958333	41.641667	0.00	-4.45	-0.95907	-0.45608	-1.41515	1	28.85 %
727	15.975000	41.641667	0.00	-8.70	-1.08939	-0.43862	-1.52800	1	28.89 %
728	15.991667	41.641667	0.00	-10.00	-1.05211	-0.42151	-1.47362	1	28.93 %
729	16.008333	41.641667	0.00	-10.20	-0.97821	-0.40054	-1.37875	1	28.97 %
730	16.025000	41.641667	0.00	-10.80	-0.94202	-0.37989	-1.32191	1	29.01 %
731	16.041667	41.641667	0.00	-11.40	-0.92176	-0.35537	-1.27714	1	29.05 %
732	16.058333	41.641667	0.00	-12.10	-0.92600	-0.32927	-1.25527	1	29.09 %
733	16.075000	41.641667	0.00	-12.35	-0.90673	-0.30222	-1.20895	1	29.13 %
734	16.091667	41.641667	0.00	-12.60	-0.89739	-0.27268	-1.17007	1	29.17 %
735	16.108333	41.641667	0.00	-12.95	-0.90943	-0.24558	-1.15501	1	29.21 %
736	16.125000	41.641667	0.00	-13.30	-0.92588	-0.21640	-1.14228	1	29.25 %
737	16.141667	41.641667	0.00	-13.75	-0.94976	-0.19285	-1.14262	1	29.29 %
738	16.158333	41.641667	0.00	-14.00	-0.96729	-0.16645	-1.13374	1	29.33 %
739	16.175000	41.641667	0.00	-14.20	-0.98274	-0.14629	-1.12902	1	29.37 %
740	16.191667	41.641667	0.00	-14.70	-1.01593	-0.12649	-1.14242	1	29.4 %
741	16.208333	41.641667	0.00	-15.95	-1.10075	-0.11140	-1.21214	1	29.44 %
742	16.225000	41.641667	0.00	-17.20	-1.18724	-0.09732	-1.28456	1	29.48 %
743	16.241667	41.641667	0.00	-18.40	-1.27125	-0.08636	-1.35760	1	29.52 %
744	16.258333	41.641667	0.00	-19.80	-1.36625	-0.07655	-1.44280	1	29.56 %
745	16.275000	41.641667	0.00	-21.75	-1.50443	-0.06861	-1.57304	1	29.6 %
746	16.291667	41.641667	0.00	-24.10	-1.66158	-0.06216	-1.72374	1	29.64 %
747	16.308333	41.641667	0.00	-27.60	-1.91337	-0.05665	-1.97002	1	29.68 %

748	16.325000	41.641667	0.00	-31.45	-2.17363	-0.05276	-2.22638	1	29.72 %
749	16.341667	41.641667	0.00	-34.90	-2.41764	-0.04939	-2.46703	1	29.76 %
750	16.358333	41.641667	0.00	-40.20	-2.74807	-0.04747	-2.79554	1	29.8 %
751	16.375000	41.641667	0.00	-45.30	-3.09833	-0.04584	-3.14417	1	29.84 %
752	16.391667	41.641667	0.00	-49.40	-3.38144	-0.04537	-3.42681	1	29.88 %
753	16.408333	41.641667	0.00	-53.40	-3.66241	-0.04529	-3.70770	1	29.92 %
754	16.425000	41.641667	0.00	-58.95	-4.02995	-0.04607	-4.07602	1	29.96 %
755	16.441667	41.641667	0.00	-63.80	-4.36583	-0.04734	-4.41317	1	30.0 %
756	16.458333	41.641667	0.00	-68.45	-4.68349	-0.04931	-4.73280	1	30.04 %
757	16.475000	41.641667	0.00	-72.90	-4.98841	-0.05187	-5.04027	1	30.08 %
758	16.491667	41.641667	0.00	-77.70	-5.31576	-0.05510	-5.37086	1	30.12 %
759	16.508333	41.641667	0.00	-81.50	-5.57150	-0.05888	-5.63039	1	30.16 %
760	16.525000	41.641667	0.00	-84.20	-5.75909	-0.06333	-5.82242	1	30.2 %
761	16.541667	41.641667	0.00	-86.50	-5.92170	-0.06840	-5.99009	1	30.24 %
762	16.558333	41.641667	0.00	-88.55	-6.06460	-0.07419	-6.13880	1	30.28 %
763	16.575000	41.641667	0.00	-90.40	-6.18812	-0.08063	-6.26875	1	30.32 %
764	16.591667	41.641667	0.00	-91.85	-6.28750	-0.08795	-6.37544	1	30.36 %
765	16.608333	41.641667	0.00	-93.90	-6.42506	-0.09598	-6.52104	1	30.4 %
766	16.625000	41.641667	0.00	-96.30	-6.58927	-0.10507	-6.69434	1	30.44 %
767	16.641667	41.641667	0.00	-99.10	-6.77454	-0.11506	-6.88961	1	30.48 %
768	16.658333	41.641667	0.00	-101.15	-6.91927	-0.12622	-7.04550	1	30.52 %
769	16.675000	41.641667	0.00	-103.30	-7.06734	-0.13859	-7.20593	1	30.56 %
770	16.691667	41.641667	0.00	-105.30	-7.20499	-0.15237	-7.35736	1	30.6 %
771	16.708333	41.641667	0.00	-107.25	-7.34442	-0.16799	-7.51241	1	30.63 %
772	16.725000	41.641667	0.00	-109.35	-7.48599	-0.18532	-7.67131	1	30.67 %
773	16.741667	41.641667	0.00	-111.60	-7.64038	-0.20526	-7.84564	1	30.71 %
774	16.758333	41.641667	0.00	-114.40	-7.83580	-0.22758	-8.06338	1	30.75 %
775	16.775000	41.641667	0.00	-119.90	-8.18179	-0.25304	-8.43483	1	30.79 %
776	16.791667	41.641667	0.00	-123.65	-8.45268	-0.28049	-8.73317	1	30.83 %
777	16.808333	41.641667	0.00	-127.90	-8.73315	-0.31107	-9.04421	1	30.87 %
778	16.825000	41.641667	0.00	-131.60	-9.00689	-0.34379	-9.35068	1	30.91 %
779	16.841667	41.641667	0.00	-134.70	-9.24468	-0.38071	-9.62539	1	30.95 %
780	15.858333	41.625000	70.00	70.00	7.27880	-0.34582	6.93299	0	30.99 %
781	15.875000	41.625000	53.00	53.00	5.40277	-0.36818	5.03458	0	31.03 %
782	15.891667	41.625000	31.00	31.00	2.64245	-0.39920	2.24325	0	31.07 %
783	15.908333	41.625000	0.00	0.00	-0.45749	-0.44200	-0.89950	1	31.11 %
784	15.925000	41.625000	0.00	-0.56	-0.46192	-0.43308	-0.89499	1	31.15 %
785	15.941667	41.625000	0.00	-8.60	-0.90001	-0.41899	-1.31900	1	31.19 %
786	15.958333	41.625000	0.00	-10.00	-0.92465	-0.40521	-1.32986	1	31.23 %
787	15.975000	41.625000	0.00	-10.00	-0.87615	-0.38462	-1.26077	1	31.27 %

788	15.991667	41.625000	0.00	-10.00	-0.83397	-0.36540	-1.19937	1	31.31 %
789	16.008333	41.625000	0.00	-10.20	-0.81203	-0.34187	-1.15391	1	31.35 %
790	16.025000	41.625000	0.00	-11.30	-0.86349	-0.32016	-1.18365	1	31.39 %
791	16.041667	41.625000	0.00	-12.20	-0.89539	-0.29548	-1.19087	1	31.43 %
792	16.058333	41.625000	0.00	-12.65	-0.91143	-0.27117	-1.18260	1	31.47 %
793	16.075000	41.625000	0.00	-13.15	-0.93000	-0.24656	-1.17656	1	31.51 %
794	16.091667	41.625000	0.00	-13.55	-0.94962	-0.22147	-1.17109	1	31.55 %
795	16.108333	41.625000	0.00	-13.90	-0.96695	-0.19929	-1.16623	1	31.59 %
796	16.125000	41.625000	0.00	-14.20	-0.98007	-0.17598	-1.15605	1	31.63 %
797	16.141667	41.625000	0.00	-14.40	-0.99118	-0.15756	-1.14873	1	31.67 %
798	16.158333	41.625000	0.00	-14.60	-1.00409	-0.13736	-1.14144	1	31.71 %
799	16.175000	41.625000	0.00	-14.80	-1.01815	-0.12231	-1.14047	1	31.75 %
800	16.191667	41.625000	0.00	-15.30	-1.05588	-0.10691	-1.16278	1	31.79 %
801	16.208333	41.625000	0.00	-16.50	-1.14078	-0.09552	-1.23630	1	31.83 %
802	16.225000	41.625000	0.00	-17.85	-1.23228	-0.08428	-1.31656	1	31.87 %
803	16.241667	41.625000	0.00	-19.00	-1.31092	-0.07574	-1.38665	1	31.9 %
804	16.258333	41.625000	0.00	-20.40	-1.41010	-0.06781	-1.47790	1	31.94 %
805	16.275000	41.625000	0.00	-22.60	-1.56404	-0.06144	-1.62548	1	31.98 %
806	16.291667	41.625000	0.00	-24.50	-1.69564	-0.05607	-1.75172	1	32.02 %
807	16.308333	41.625000	0.00	-29.05	-2.01236	-0.05158	-2.06394	1	32.06 %
808	16.325000	41.625000	0.00	-32.10	-2.22194	-0.04838	-2.27032	1	32.1 %
809	16.341667	41.625000	0.00	-36.00	-2.47932	-0.04560	-2.52492	1	32.14 %
810	16.358333	41.625000	0.00	-40.30	-2.75943	-0.04411	-2.80354	1	32.18 %
811	16.375000	41.625000	0.00	-44.80	-3.06374	-0.04282	-3.10656	1	32.22 %
812	16.391667	41.625000	0.00	-49.00	-3.35201	-0.04266	-3.39467	1	32.26 %
813	16.408333	41.625000	0.00	-53.00	-3.63685	-0.04272	-3.67957	1	32.3 %
814	16.425000	41.625000	0.00	-57.95	-3.96182	-0.04363	-4.00545	1	32.34 %
815	16.441667	41.625000	0.00	-62.80	-4.29682	-0.04494	-4.34177	1	32.38 %
816	16.458333	41.625000	0.00	-67.25	-4.59968	-0.04696	-4.64664	1	32.42 %
817	16.475000	41.625000	0.00	-71.45	-4.89873	-0.04950	-4.94823	1	32.46 %
818	16.491667	41.625000	0.00	-76.50	-5.22722	-0.05262	-5.27984	1	32.5 %
819	16.508333	41.625000	0.00	-80.30	-5.48861	-0.05631	-5.54492	1	32.54 %
820	16.525000	41.625000	0.00	-83.15	-5.68993	-0.06060	-5.75052	1	32.58 %
821	16.541667	41.625000	0.00	-85.50	-5.85794	-0.06552	-5.92345	1	32.62 %
822	16.558333	41.625000	0.00	-87.70	-6.00115	-0.07104	-6.07219	1	32.66 %
823	16.575000	41.625000	0.00	-89.30	-6.11401	-0.07727	-6.19128	1	32.7 %
824	16.591667	41.625000	0.00	-90.65	-6.20547	-0.08422	-6.28970	1	32.74 %
825	16.608333	41.625000	0.00	-93.00	-6.36434	-0.09193	-6.45628	1	32.78 %
826	16.625000	41.625000	0.00	-95.45	-6.53970	-0.10057	-6.64027	1	32.82 %
827	16.641667	41.625000	0.00	-98.10	-6.71105	-0.11009	-6.82114	1	32.86 %
828	16.658333	41.625000	0.00	-99.90	-6.83879	-0.12067	-6.95946	1	32.9 %

829	16.675000	41.625000	0.00	-102.15	-6.99084	-0.13241	-7.12325	1	32.94 %
830	16.691667	41.625000	0.00	-104.15	-7.13156	-0.14542	-7.27698	1	32.98 %
831	16.708333	41.625000	0.00	-106.35	-7.27586	-0.16013	-7.43599	1	33.02 %
832	16.725000	41.625000	0.00	-108.50	-7.42621	-0.17638	-7.60259	1	33.06 %
833	16.741667	41.625000	0.00	-110.50	-7.56671	-0.19496	-7.76167	1	33.1 %
834	16.758333	41.625000	0.00	-113.25	-7.75561	-0.21565	-7.97126	1	33.13 %
835	16.775000	41.625000	0.00	-117.15	-8.01015	-0.23922	-8.24937	1	33.17 %
836	16.791667	41.625000	0.00	-121.40	-8.29658	-0.26484	-8.56142	1	33.21 %
837	16.808333	41.625000	0.00	-125.05	-8.55114	-0.29347	-8.84461	1	33.25 %
838	16.825000	41.625000	0.00	-129.00	-8.81863	-0.32442	-9.14304	1	33.29 %
839	16.841667	41.625000	0.00	-132.10	-9.04980	-0.35949	-9.40929	1	33.33 %
840	15.858333	41.608333	57.00	57.00	5.66194	-0.32010	5.34185	0	33.37 %
841	15.875000	41.608333	19.00	19.00	1.66603	-0.37604	1.28999	0	33.41 %
842	15.891667	41.608333	5.00	5.00	0.18060	-0.39191	-0.21131	0	33.45 %
843	15.908333	41.608333	0.00	-5.15	-0.53550	-0.39019	-0.92568	1	33.49 %
844	15.925000	41.608333	0.00	-8.90	-0.73637	-0.38103	-1.11740	1	33.53 %
845	15.941667	41.608333	0.00	-10.00	-0.78027	-0.36616	-1.14643	1	33.57 %
846	15.958333	41.608333	0.00	-10.20	-0.77450	-0.35193	-1.12643	1	33.61 %
847	15.975000	41.608333	0.00	-10.20	-0.75260	-0.33106	-1.08366	1	33.65 %
848	15.991667	41.608333	0.00	-10.00	-0.72410	-0.31169	-1.03579	1	33.69 %
849	16.008333	41.608333	0.00	-10.00	-0.71354	-0.28772	-1.00126	1	33.73 %
850	16.025000	41.608333	0.00	-11.50	-0.81641	-0.26568	-1.08209	1	33.77 %
851	16.041667	41.608333	0.00	-13.00	-0.90288	-0.24193	-1.14481	1	33.81 %
852	16.058333	41.608333	0.00	-13.50	-0.93751	-0.21948	-1.15699	1	33.85 %
853	16.075000	41.608333	0.00	-14.00	-0.96543	-0.19728	-1.16271	1	33.89 %
854	16.091667	41.608333	0.00	-14.00	-0.96456	-0.17632	-1.14088	1	33.93 %
855	16.108333	41.608333	0.00	-14.60	-1.00403	-0.15790	-1.16194	1	33.97 %
856	16.125000	41.608333	0.00	-14.80	-1.01845	-0.13988	-1.15833	1	34.01 %
857	16.141667	41.608333	0.00	-15.00	-1.03200	-0.12537	-1.15737	1	34.05 %
858	16.158333	41.608333	0.00	-15.20	-1.04568	-0.11072	-1.15640	1	34.09 %
859	16.175000	41.608333	0.00	-15.45	-1.06864	-0.09938	-1.16802	1	34.13 %
860	16.191667	41.608333	0.00	-16.20	-1.11995	-0.08813	-1.20808	1	34.17 %
861	16.208333	41.608333	0.00	-17.25	-1.19181	-0.07938	-1.27119	1	34.21 %
862	16.225000	41.608333	0.00	-18.35	-1.26639	-0.07079	-1.33718	1	34.25 %
863	16.241667	41.608333	0.00	-19.40	-1.34070	-0.06427	-1.40497	1	34.29 %
864	16.258333	41.608333	0.00	-21.40	-1.47161	-0.05806	-1.52966	1	34.33 %
865	16.275000	41.608333	0.00	-23.30	-1.61171	-0.05316	-1.66487	1	34.37 %
866	16.291667	41.608333	0.00	-25.50	-1.77258	-0.04900	-1.82158	1	34.4 %
867	16.308333	41.608333	0.00	-30.30	-2.09208	-0.04545	-2.13753	1	34.44 %
868	16.325000	41.608333	0.00	-33.00	-2.27477	-0.04307	-2.31783	1	34.48 %

869	16.341667	41.608333	0.00	-36.40	-2.51150	-0.04094	-2.55244	1	34.52 %
870	16.358333	41.608333	0.00	-40.15	-2.74855	-0.03998	-2.78853	1	34.56 %
871	16.375000	41.608333	0.00	-44.30	-3.03366	-0.03914	-3.07280	1	34.6 %
872	16.391667	41.608333	0.00	-48.40	-3.32025	-0.03926	-3.35950	1	34.64 %
873	16.408333	41.608333	0.00	-52.65	-3.60601	-0.03957	-3.64559	1	34.68 %
874	16.425000	41.608333	0.00	-56.85	-3.88557	-0.04070	-3.92627	1	34.72 %
875	16.441667	41.608333	0.00	-62.10	-4.24960	-0.04214	-4.29174	1	34.76 %
876	16.458333	41.608333	0.00	-66.45	-4.55133	-0.04420	-4.59553	1	34.8 %
877	16.475000	41.608333	0.00	-70.90	-4.85101	-0.04675	-4.89776	1	34.84 %
878	16.491667	41.608333	0.00	-75.35	-5.14827	-0.04984	-5.19810	1	34.88 %
879	16.508333	41.608333	0.00	-79.20	-5.41060	-0.05349	-5.46409	1	34.92 %
880	16.525000	41.608333	0.00	-82.35	-5.63713	-0.05765	-5.69478	1	34.96 %
881	16.541667	41.608333	0.00	-85.20	-5.83737	-0.06244	-5.89981	1	35.0 %
882	16.558333	41.608333	0.00	-87.10	-5.96134	-0.06771	-6.02905	1	35.04 %
883	16.575000	41.608333	0.00	-88.60	-6.06625	-0.07374	-6.13999	1	35.08 %
884	16.591667	41.608333	0.00	-89.60	-6.14744	-0.08039	-6.22783	1	35.12 %
885	16.608333	41.608333	0.00	-92.10	-6.30757	-0.08778	-6.39535	1	35.16 %
886	16.625000	41.608333	0.00	-95.30	-6.52065	-0.09600	-6.61665	1	35.2 %
887	16.641667	41.608333	0.00	-97.55	-6.67506	-0.10505	-6.78010	1	35.24 %
888	16.658333	41.608333	0.00	-99.80	-6.82619	-0.11513	-6.94132	1	35.28 %
889	16.675000	41.608333	0.00	-101.60	-6.95643	-0.12631	-7.08275	1	35.32 %
890	16.691667	41.608333	0.00	-103.60	-7.09457	-0.13861	-7.23317	1	35.36 %
891	16.708333	41.608333	0.00	-105.65	-7.22790	-0.15243	-7.38032	1	35.4 %
892	16.725000	41.608333	0.00	-108.05	-7.38819	-0.16764	-7.55583	1	35.44 %
893	16.741667	41.608333	0.00	-110.20	-7.54157	-0.18496	-7.72654	1	35.48 %
894	16.758333	41.608333	0.00	-112.45	-7.70140	-0.20416	-7.90555	1	35.52 %
895	16.775000	41.608333	0.00	-115.20	-7.88391	-0.22597	-8.10988	1	35.56 %
896	16.791667	41.608333	0.00	-119.25	-8.15159	-0.24984	-8.40143	1	35.6 %
897	16.808333	41.608333	0.00	-123.35	-8.43181	-0.27659	-8.70839	1	35.63 %
898	16.825000	41.608333	0.00	-127.10	-8.69751	-0.30581	-9.00332	1	35.67 %
899	16.841667	41.608333	0.00	-130.95	-8.95330	-0.33897	-9.29227	1	35.71 %
900	15.858333	41.591667	28.00	28.00	2.81529	-0.30807	2.50723	0	35.75 %
901	15.875000	41.591667	5.00	5.00	0.46480	-0.33557	0.12923	0	35.79 %
902	15.891667	41.591667	1.00	1.00	-0.08201	-0.33288	-0.41490	0	35.83 %
903	15.908333	41.591667	0.00	-6.05	-0.46444	-0.32319	-0.78763	1	35.87 %
904	15.925000	41.591667	0.00	-9.15	-0.65915	-0.31200	-0.97114	1	35.91 %
905	15.941667	41.591667	0.00	-10.15	-0.72064	-0.29657	-1.01720	1	35.95 %
906	15.958333	41.591667	0.00	-11.00	-0.77033	-0.28199	-1.05232	1	35.99 %
907	15.975000	41.591667	0.00	-11.00	-0.76555	-0.26276	-1.02831	1	36.03 %
908	15.991667	41.591667	0.00	-11.05	-0.76975	-0.24541	-1.01516	1	36.07 %
909	16.008333	41.591667	0.00	-12.35	-0.85881	-0.22521	-1.08403	1	36.11 %

910	16.025000	41.591667	0.00	-13.20	-0.91073	-0.20690	-1.11763	1	36.15 %
911	16.041667	41.591667	0.00	-13.80	-0.95448	-0.18825	-1.14274	1	36.19 %
912	16.058333	41.591667	0.00	-14.20	-0.97640	-0.17069	-1.14708	1	36.23 %
913	16.075000	41.591667	0.00	-14.00	-0.96313	-0.15441	-1.11754	1	36.27 %
914	16.091667	41.591667	0.00	-14.00	-0.96320	-0.13872	-1.10192	1	36.31 %
915	16.108333	41.591667	0.00	-14.20	-0.97653	-0.12538	-1.10192	1	36.35 %
916	16.125000	41.591667	0.00	-14.75	-1.01460	-0.11206	-1.12667	1	36.39 %
917	16.141667	41.591667	0.00	-15.20	-1.04968	-0.10149	-1.15117	1	36.43 %
918	16.158333	41.591667	0.00	-15.60	-1.07790	-0.09057	-1.16847	1	36.47 %
919	16.175000	41.591667	0.00	-16.20	-1.11592	-0.08215	-1.19807	1	36.51 %
920	16.191667	41.591667	0.00	-17.15	-1.18173	-0.07362	-1.25535	1	36.55 %
921	16.208333	41.591667	0.00	-18.05	-1.24629	-0.06690	-1.31319	1	36.59 %
922	16.225000	41.591667	0.00	-19.10	-1.31775	-0.06039	-1.37815	1	36.63 %
923	16.241667	41.591667	0.00	-20.15	-1.39038	-0.05520	-1.44558	1	36.67 %
924	16.258333	41.591667	0.00	-22.45	-1.54922	-0.05041	-1.59962	1	36.71 %
925	16.275000	41.591667	0.00	-24.40	-1.68591	-0.04651	-1.73242	1	36.75 %
926	16.291667	41.591667	0.00	-27.10	-1.87462	-0.04322	-1.91784	1	36.79 %
927	16.308333	41.591667	0.00	-30.70	-2.11876	-0.04043	-2.15918	1	36.83 %
928	16.325000	41.591667	0.00	-33.50	-2.31541	-0.03855	-2.35396	1	36.87 %
929	16.341667	41.591667	0.00	-36.70	-2.52882	-0.03702	-2.56583	1	36.9 %
930	16.358333	41.591667	0.00	-39.80	-2.72711	-0.03635	-2.76346	1	36.94 %
931	16.375000	41.591667	0.00	-44.00	-3.01119	-0.03590	-3.04709	1	36.98 %
932	16.391667	41.591667	0.00	-48.35	-3.30786	-0.03622	-3.34408	1	37.02 %
933	16.408333	41.591667	0.00	-52.10	-3.56883	-0.03677	-3.60560	1	37.06 %
934	16.425000	41.591667	0.00	-56.00	-3.83459	-0.03797	-3.87256	1	37.1 %
935	16.441667	41.591667	0.00	-61.35	-4.19976	-0.03951	-4.23927	1	37.14 %
936	16.458333	41.591667	0.00	-66.00	-4.52544	-0.04163	-4.56707	1	37.18 %
937	16.475000	41.591667	0.00	-70.30	-4.80828	-0.04411	-4.85239	1	37.22 %
938	16.491667	41.591667	0.00	-74.10	-5.06935	-0.04722	-5.11657	1	37.26 %
939	16.508333	41.591667	0.00	-77.75	-5.31842	-0.05074	-5.36916	1	37.3 %
940	16.525000	41.591667	0.00	-81.20	-5.56173	-0.05480	-5.61653	1	37.34 %
941	16.541667	41.591667	0.00	-85.10	-5.80897	-0.05937	-5.86834	1	37.38 %
942	16.558333	41.591667	0.00	-86.40	-5.91745	-0.06455	-5.98200	1	37.42 %
943	16.575000	41.591667	0.00	-88.20	-6.04000	-0.07027	-6.11027	1	37.46 %
944	16.591667	41.591667	0.00	-90.10	-6.16678	-0.07671	-6.24350	1	37.5 %
945	16.608333	41.591667	0.00	-92.40	-6.33704	-0.08373	-6.42077	1	37.54 %
946	16.625000	41.591667	0.00	-95.00	-6.49454	-0.09159	-6.58613	1	37.58 %
947	16.641667	41.591667	0.00	-97.00	-6.63843	-0.10027	-6.73870	1	37.62 %
948	16.658333	41.591667	0.00	-99.15	-6.78606	-0.10977	-6.89583	1	37.66 %
949	16.675000	41.591667	0.00	-101.20	-6.92992	-0.12035	-7.05026	1	37.7 %

950	16.691667	41.591667	0.00	-103.30	-7.07091	-0.13195	-7.20286	1	37.74 %
951	16.708333	41.591667	0.00	-105.20	-7.19956	-0.14507	-7.34463	1	37.78 %
952	16.725000	41.591667	0.00	-107.50	-7.35212	-0.15931	-7.51142	1	37.82 %
953	16.741667	41.591667	0.00	-109.50	-7.49896	-0.17551	-7.67447	1	37.86 %
954	16.758333	41.591667	0.00	-111.95	-7.65827	-0.19329	-7.85156	1	37.9 %
955	16.775000	41.591667	0.00	-114.15	-7.81393	-0.21352	-8.02744	1	37.94 %
956	16.791667	41.591667	0.00	-117.35	-8.03129	-0.23563	-8.26692	1	37.98 %
957	16.808333	41.591667	0.00	-121.80	-8.33017	-0.26062	-8.59079	1	38.02 %
958	16.825000	41.591667	0.00	-126.40	-8.63272	-0.28806	-8.92078	1	38.06 %
959	16.841667	41.591667	0.00	-130.25	-8.89294	-0.31924	-9.21218	1	38.1 %
960	15.858333	41.575000	2.00	2.00	0.07210	-0.27896	-0.20687	0	38.13 %
961	15.875000	41.575000	-1.00	-1.00	-0.02715	-0.27592	-0.30307	0	38.17 %
962	15.891667	41.575000	1.00	1.00	0.09133	-0.26482	-0.17349	0	38.21 %
963	15.908333	41.575000	0.00	-6.55	-0.47562	-0.25567	-0.73130	1	38.25 %
964	15.925000	41.575000	0.00	-9.10	-0.63979	-0.24513	-0.88493	1	38.29 %
965	15.941667	41.575000	0.00	-10.45	-0.72372	-0.23162	-0.95534	1	38.33 %
966	15.958333	41.575000	0.00	-11.85	-0.82080	-0.21919	-1.03999	1	38.37 %
967	15.975000	41.575000	0.00	-12.60	-0.87089	-0.20371	-1.07460	1	38.41 %
968	15.991667	41.575000	0.00	-13.25	-0.91611	-0.19033	-1.10644	1	38.45 %
969	16.008333	41.575000	0.00	-13.90	-0.95898	-0.17503	-1.13400	1	38.49 %
970	16.025000	41.575000	0.00	-14.20	-0.98062	-0.16157	-1.14219	1	38.53 %
971	16.041667	41.575000	0.00	-14.40	-0.99446	-0.14776	-1.14222	1	38.57 %
972	16.058333	41.575000	0.00	-14.60	-1.00696	-0.13518	-1.14214	1	38.61 %
973	16.075000	41.575000	0.00	-14.50	-0.99811	-0.12334	-1.12145	1	38.65 %
974	16.091667	41.575000	0.00	-14.00	-0.96572	-0.11196	-1.07769	1	38.69 %
975	16.108333	41.575000	0.00	-14.00	-0.97330	-0.10217	-1.07547	1	38.73 %
976	16.125000	41.575000	0.00	-15.20	-1.04504	-0.09219	-1.13722	1	38.77 %
977	16.141667	41.575000	0.00	-15.60	-1.07466	-0.08435	-1.15901	1	38.81 %
978	16.158333	41.575000	0.00	-16.20	-1.11498	-0.07595	-1.19093	1	38.85 %
979	16.175000	41.575000	0.00	-17.00	-1.17226	-0.06955	-1.24181	1	38.89 %
980	16.191667	41.575000	0.00	-17.85	-1.23310	-0.06283	-1.29592	1	38.93 %
981	16.208333	41.575000	0.00	-18.75	-1.29597	-0.05767	-1.35363	1	38.97 %
982	16.225000	41.575000	0.00	-19.75	-1.36554	-0.05245	-1.41798	1	39.01 %
983	16.241667	41.575000	0.00	-21.45	-1.48169	-0.04836	-1.53005	1	39.05 %
984	16.258333	41.575000	0.00	-23.45	-1.61802	-0.04451	-1.66253	1	39.09 %
985	16.275000	41.575000	0.00	-25.50	-1.75979	-0.04138	-1.80117	1	39.13 %
986	16.291667	41.575000	0.00	-28.00	-1.93302	-0.03871	-1.97173	1	39.17 %
987	16.308333	41.575000	0.00	-31.20	-2.14500	-0.03648	-2.18147	1	39.21 %
988	16.325000	41.575000	0.00	-33.90	-2.33688	-0.03506	-2.37194	1	39.25 %
989	16.341667	41.575000	0.00	-36.85	-2.54116	-0.03389	-2.57505	1	39.29 %
990	16.358333	41.575000	0.00	-39.70	-2.72694	-0.03351	-2.76045	1	39.33 %

991	16.375000	41.575000	0.00	-44.05	-3.02299	-0.03327	-3.05626	1	39.37 %
992	16.391667	41.575000	0.00	-48.10	-3.29181	-0.03372	-3.32553	1	39.4 %
993	16.408333	41.575000	0.00	-51.65	-3.53863	-0.03442	-3.57305	1	39.44 %
994	16.425000	41.575000	0.00	-55.40	-3.80180	-0.03568	-3.83748	1	39.48 %
995	16.441667	41.575000	0.00	-60.75	-4.16380	-0.03726	-4.20106	1	39.52 %
996	16.458333	41.575000	0.00	-65.75	-4.49332	-0.03934	-4.53266	1	39.56 %
997	16.475000	41.575000	0.00	-69.95	-4.78153	-0.04186	-4.82340	1	39.6 %
998	16.491667	41.575000	0.00	-73.50	-5.03099	-0.04482	-5.07580	1	39.64 %
999	16.508333	41.575000	0.00	-76.60	-5.24631	-0.04826	-5.29457	1	39.68 %
1000	16.525000	41.575000	0.00	-79.85	-5.46185	-0.05213	-5.51398	1	39.72 %
1001	16.541667	41.575000	0.00	-83.10	-5.67823	-0.05656	-5.73479	1	39.76 %
1002	16.558333	41.575000	0.00	-85.50	-5.85122	-0.06155	-5.91277	1	39.8 %
1003	16.575000	41.575000	0.00	-87.55	-5.99605	-0.06703	-6.06308	1	39.84 %
1004	16.591667	41.575000	0.00	-90.00	-6.16172	-0.07318	-6.23490	1	39.88 %
1005	16.608333	41.575000	0.00	-92.10	-6.30593	-0.07987	-6.38579	1	39.92 %
1006	16.625000	41.575000	0.00	-94.10	-6.43987	-0.08736	-6.52723	1	39.96 %
1007	16.641667	41.575000	0.00	-96.25	-6.58894	-0.09556	-6.68450	1	40.0 %
1008	16.658333	41.575000	0.00	-98.70	-6.76045	-0.10461	-6.86506	1	40.04 %
1009	16.675000	41.575000	0.00	-101.10	-6.91406	-0.11458	-7.02863	1	40.08 %
1010	16.691667	41.575000	0.00	-103.10	-7.05121	-0.12555	-7.17676	1	40.12 %
1011	16.708333	41.575000	0.00	-104.90	-7.17773	-0.13789	-7.31563	1	40.16 %
1012	16.725000	41.575000	0.00	-107.00	-7.32093	-0.15128	-7.47222	1	40.2 %
1013	16.741667	41.575000	0.00	-109.10	-7.46271	-0.16644	-7.62915	1	40.24 %
1014	16.758333	41.575000	0.00	-111.15	-7.60390	-0.18295	-7.78685	1	40.28 %
1015	16.775000	41.575000	0.00	-113.30	-7.75363	-0.20170	-7.95533	1	40.32 %
1016	16.791667	41.575000	0.00	-115.50	-7.91317	-0.22224	-8.13541	1	40.36 %
1017	16.808333	41.575000	0.00	-121.05	-8.27787	-0.24541	-8.52328	1	40.4 %
1018	16.825000	41.575000	0.00	-125.30	-8.54971	-0.27090	-8.82061	1	40.44 %
1019	16.841667	41.575000	0.00	-129.35	-8.82463	-0.29985	-9.12448	1	40.48 %
1020	15.858333	41.558333	-2.00	-2.00	-0.02020	-0.21442	-0.23462	0	40.52 %
1021	15.875000	41.558333	0.00	0.00	-0.01144	-0.20683	-0.21827	0	40.56 %
1022	15.891667	41.558333	0.00	0.00	-0.00820	-0.20033	-0.20853	0	40.6 %
1023	15.908333	41.558333	0.00	-4.75	-0.33482	-0.19278	-0.52760	1	40.63 %
1024	15.925000	41.558333	0.00	-8.20	-0.56656	-0.18490	-0.75146	1	40.67 %
1025	15.941667	41.558333	0.00	-10.40	-0.71637	-0.17518	-0.89155	1	40.71 %
1026	15.958333	41.558333	0.00	-11.30	-0.78559	-0.16631	-0.95190	1	40.75 %
1027	15.975000	41.558333	0.00	-13.20	-0.90888	-0.15536	-1.06424	1	40.79 %
1028	15.991667	41.558333	0.00	-13.95	-0.96135	-0.14595	-1.10730	1	40.83 %
1029	16.008333	41.558333	0.00	-14.95	-1.02926	-0.13509	-1.16435	1	40.87 %
1030	16.025000	41.558333	0.00	-15.00	-1.03120	-0.12579	-1.15699	1	40.91 %

1031	16.041667	41.558333	0.00	-15.00	-1.03145	-0.11594	-1.14739	1	40.95 %
1032	16.058333	41.558333	0.00	-15.20	-1.04477	-0.10692	-1.15169	1	40.99 %
1033	16.075000	41.558333	0.00	-15.20	-1.04534	-0.09834	-1.14368	1	41.03 %
1034	16.091667	41.558333	0.00	-15.25	-1.05342	-0.09005	-1.14347	1	41.07 %
1035	16.108333	41.558333	0.00	-15.40	-1.06186	-0.08284	-1.14470	1	41.11 %
1036	16.125000	41.558333	0.00	-15.65	-1.08232	-0.07544	-1.15776	1	41.15 %
1037	16.141667	41.558333	0.00	-16.20	-1.11454	-0.06951	-1.18405	1	41.19 %
1038	16.158333	41.558333	0.00	-16.80	-1.15854	-0.06313	-1.22167	1	41.23 %
1039	16.175000	41.558333	0.00	-17.55	-1.20983	-0.05827	-1.26810	1	41.27 %
1040	16.191667	41.558333	0.00	-18.40	-1.27127	-0.05300	-1.32427	1	41.31 %
1041	16.208333	41.558333	0.00	-19.45	-1.34307	-0.04910	-1.39217	1	41.35 %
1042	16.225000	41.558333	0.00	-20.70	-1.43023	-0.04498	-1.47521	1	41.39 %
1043	16.241667	41.558333	0.00	-22.40	-1.54618	-0.04182	-1.58801	1	41.43 %
1044	16.258333	41.558333	0.00	-24.45	-1.68628	-0.03882	-1.72510	1	41.47 %
1045	16.275000	41.558333	0.00	-26.35	-1.82008	-0.03635	-1.85643	1	41.51 %
1046	16.291667	41.558333	0.00	-28.55	-1.97437	-0.03431	-2.00867	1	41.55 %
1047	16.308333	41.558333	0.00	-31.50	-2.17094	-0.03258	-2.20352	1	41.59 %
1048	16.325000	41.558333	0.00	-34.10	-2.35150	-0.03157	-2.38308	1	41.63 %
1049	16.341667	41.558333	0.00	-37.10	-2.55722	-0.03071	-2.58792	1	41.67 %
1050	16.358333	41.558333	0.00	-40.10	-2.75428	-0.03061	-2.78489	1	41.71 %
1051	16.375000	41.558333	0.00	-45.10	-3.08022	-0.03057	-3.11080	1	41.75 %
1052	16.391667	41.558333	0.00	-48.00	-3.28785	-0.03122	-3.31908	1	41.79 %
1053	16.408333	41.558333	0.00	-51.30	-3.51986	-0.03201	-3.55187	1	41.83 %
1054	16.425000	41.558333	0.00	-55.30	-3.79008	-0.03338	-3.82345	1	41.87 %
1055	16.441667	41.558333	0.00	-60.55	-4.13563	-0.03501	-4.17065	1	41.9 %
1056	16.458333	41.558333	0.00	-64.65	-4.42337	-0.03709	-4.46046	1	41.94 %
1057	16.475000	41.558333	0.00	-69.15	-4.72350	-0.03956	-4.76305	1	41.98 %
1058	16.491667	41.558333	0.00	-72.90	-4.98492	-0.04241	-5.02733	1	42.02 %
1059	16.508333	41.558333	0.00	-76.00	-5.20776	-0.04574	-5.25350	1	42.06 %
1060	16.525000	41.558333	0.00	-78.55	-5.38022	-0.04950	-5.42972	1	42.1 %
1061	16.541667	41.558333	0.00	-81.10	-5.55345	-0.05378	-5.60722	1	42.14 %
1062	16.558333	41.558333	0.00	-83.90	-5.74443	-0.05850	-5.80294	1	42.18 %
1063	16.575000	41.558333	0.00	-86.70	-5.93563	-0.06381	-5.99944	1	42.22 %
1064	16.591667	41.558333	0.00	-89.85	-6.13878	-0.06965	-6.20842	1	42.26 %
1065	16.608333	41.558333	0.00	-91.70	-6.27724	-0.07607	-6.35330	1	42.3 %
1066	16.625000	41.558333	0.00	-93.50	-6.40440	-0.08318	-6.48758	1	42.34 %
1067	16.641667	41.558333	0.00	-95.65	-6.55108	-0.09094	-6.64202	1	42.38 %
1068	16.658333	41.558333	0.00	-98.85	-6.75383	-0.09953	-6.85336	1	42.42 %
1069	16.675000	41.558333	0.00	-100.90	-6.90311	-0.10899	-7.01210	1	42.46 %
1070	16.691667	41.558333	0.00	-102.70	-7.02790	-0.11936	-7.14726	1	42.5 %
1071	16.708333	41.558333	0.00	-104.55	-7.15777	-0.13095	-7.28873	1	42.54 %

1072	16.725000	41.558333	0.00	-106.80	-7.30275	-0.14356	-7.44632	1	42.58 %
1073	16.741667	41.558333	0.00	-108.70	-7.43271	-0.15777	-7.59048	1	42.62 %
1074	16.758333	41.558333	0.00	-110.60	-7.56871	-0.17321	-7.74193	1	42.66 %
1075	16.775000	41.558333	0.00	-112.70	-7.71155	-0.19064	-7.90219	1	42.7 %
1076	16.791667	41.558333	0.00	-114.90	-7.87698	-0.20960	-8.08658	1	42.74 %
1077	16.808333	41.558333	0.00	-119.20	-8.14596	-0.23091	-8.37687	1	42.78 %
1078	16.825000	41.558333	0.00	-122.75	-8.38044	-0.25438	-8.63482	1	42.82 %
1079	16.841667	41.558333	0.00	-127.20	-8.67688	-0.28097	-8.95785	1	42.86 %
1080	15.858333	41.541667	0.00	0.00	-0.06322	-0.15871	-0.22193	0	42.9 %
1081	15.875000	41.541667	-1.00	-1.00	-0.00580	-0.15541	-0.16122	0	42.94 %
1082	15.891667	41.541667	-1.00	-1.00	-0.00384	-0.15051	-0.15435	0	42.98 %
1083	15.908333	41.541667	0.00	-4.00	-0.29470	-0.14412	-0.43882	1	43.02 %
1084	15.925000	41.541667	0.00	-8.65	-0.59723	-0.13837	-0.73560	1	43.06 %
1085	15.941667	41.541667	0.00	-10.10	-0.68916	-0.13159	-0.82075	1	43.1 %
1086	15.958333	41.541667	0.00	-11.35	-0.77784	-0.12515	-0.90299	1	43.13 %
1087	15.975000	41.541667	0.00	-13.25	-0.91071	-0.11762	-1.02833	1	43.17 %
1088	15.991667	41.541667	0.00	-14.40	-0.98995	-0.11095	-1.10089	1	43.21 %
1089	16.008333	41.541667	0.00	-15.00	-1.03095	-0.10348	-1.13444	1	43.25 %
1090	16.025000	41.541667	0.00	-15.00	-1.03139	-0.09684	-1.12823	1	43.29 %
1091	16.041667	41.541667	0.00	-15.15	-1.04337	-0.08992	-1.13328	1	43.33 %
1092	16.058333	41.541667	0.00	-15.20	-1.04555	-0.08349	-1.12905	1	43.37 %
1093	16.075000	41.541667	0.00	-15.40	-1.05922	-0.07729	-1.13650	1	43.41 %
1094	16.091667	41.541667	0.00	-15.60	-1.07297	-0.07133	-1.14430	1	43.45 %
1095	16.108333	41.541667	0.00	-15.80	-1.08730	-0.06600	-1.15330	1	43.49 %
1096	16.125000	41.541667	0.00	-16.20	-1.11417	-0.06066	-1.17483	1	43.53 %
1097	16.141667	41.541667	0.00	-16.60	-1.14745	-0.05628	-1.20373	1	43.57 %
1098	16.158333	41.541667	0.00	-17.40	-1.19602	-0.05159	-1.24761	1	43.61 %
1099	16.175000	41.541667	0.00	-18.10	-1.24821	-0.04797	-1.29618	1	43.65 %
1100	16.191667	41.541667	0.00	-19.00	-1.30804	-0.04405	-1.35208	1	43.69 %
1101	16.208333	41.541667	0.00	-19.90	-1.37373	-0.04109	-1.41482	1	43.73 %
1102	16.225000	41.541667	0.00	-21.50	-1.48135	-0.03799	-1.51935	1	43.77 %
1103	16.241667	41.541667	0.00	-23.10	-1.59365	-0.03561	-1.62926	1	43.81 %
1104	16.258333	41.541667	0.00	-25.10	-1.73001	-0.03331	-1.76332	1	43.85 %
1105	16.275000	41.541667	0.00	-26.90	-1.85794	-0.03150	-1.88945	1	43.89 %
1106	16.291667	41.541667	0.00	-29.30	-2.02098	-0.02999	-2.05097	1	43.93 %
1107	16.308333	41.541667	0.00	-31.90	-2.19949	-0.02872	-2.22821	1	43.97 %
1108	16.325000	41.541667	0.00	-34.50	-2.37878	-0.02807	-2.40685	1	44.01 %
1109	16.341667	41.541667	0.00	-37.35	-2.57952	-0.02756	-2.60708	1	44.05 %
1110	16.358333	41.541667	0.00	-40.80	-2.79696	-0.02768	-2.82464	1	44.09 %
1111	16.375000	41.541667	0.00	-45.15	-3.08778	-0.02788	-3.11567	1	44.13 %

1112	16.391667	41.541667	0.00	-47.90	-3.28348	-0.02867	-3.31215	1	44.17 %
1113	16.408333	41.541667	0.00	-51.30	-3.51479	-0.02958	-3.54436	1	44.21 %
1114	16.425000	41.541667	0.00	-55.25	-3.79207	-0.03102	-3.82309	1	44.25 %
1115	16.441667	41.541667	0.00	-59.80	-4.09380	-0.03266	-4.12645	1	44.29 %
1116	16.458333	41.541667	0.00	-63.80	-4.36492	-0.03477	-4.39969	1	44.33 %
1117	16.475000	41.541667	0.00	-67.80	-4.63765	-0.03713	-4.67478	1	44.37 %
1118	16.491667	41.541667	0.00	-71.75	-4.91767	-0.04001	-4.95768	1	44.4 %
1119	16.508333	41.541667	0.00	-75.30	-5.15306	-0.04324	-5.19629	1	44.44 %
1120	16.525000	41.541667	0.00	-77.70	-5.32011	-0.04689	-5.36700	1	44.48 %
1121	16.541667	41.541667	0.00	-80.10	-5.48344	-0.05100	-5.53444	1	44.52 %
1122	16.558333	41.541667	0.00	-82.70	-5.66702	-0.05551	-5.72254	1	44.56 %
1123	16.575000	41.541667	0.00	-85.80	-5.86713	-0.06061	-5.92774	1	44.6 %
1124	16.591667	41.541667	0.00	-88.60	-6.06084	-0.06617	-6.12701	1	44.64 %
1125	16.608333	41.541667	0.00	-91.10	-6.23211	-0.07231	-6.30441	1	44.68 %
1126	16.625000	41.541667	0.00	-93.05	-6.36906	-0.07907	-6.44813	1	44.72 %
1127	16.641667	41.541667	0.00	-95.45	-6.53541	-0.08648	-6.62189	1	44.76 %
1128	16.658333	41.541667	0.00	-98.10	-6.70585	-0.09458	-6.80043	1	44.8 %
1129	16.675000	41.541667	0.00	-100.35	-6.86521	-0.10356	-6.96878	1	44.84 %
1130	16.691667	41.541667	0.00	-102.20	-6.99355	-0.11332	-7.10687	1	44.88 %
1131	16.708333	41.541667	0.00	-104.20	-7.13286	-0.12438	-7.25724	1	44.92 %
1132	16.725000	41.541667	0.00	-106.30	-7.27278	-0.13615	-7.40893	1	44.96 %
1133	16.741667	41.541667	0.00	-108.10	-7.39516	-0.14952	-7.54469	1	45.0 %
1134	16.758333	41.541667	0.00	-109.60	-7.50699	-0.16403	-7.67102	1	45.04 %
1135	16.775000	41.541667	0.00	-112.05	-7.67042	-0.18026	-7.85068	1	45.08 %
1136	16.791667	41.541667	0.00	-115.10	-7.86245	-0.19789	-8.06034	1	45.12 %
1137	16.808333	41.541667	0.00	-117.60	-8.04183	-0.21766	-8.25949	1	45.16 %
1138	16.825000	41.541667	0.00	-119.80	-8.20457	-0.23935	-8.44393	1	45.2 %
1139	16.841667	41.541667	0.00	-124.15	-8.48626	-0.26375	-8.75001	1	45.24 %
1140	15.858333	41.525000	2.00	2.00	0.19349	-0.12127	0.07222	0	45.28 %
1141	15.875000	41.525000	0.00	0.00	-0.02934	-0.11981	-0.14915	0	45.32 %
1142	15.891667	41.525000	-1.00	-1.00	-0.00196	-0.11685	-0.11881	0	45.36 %
1143	15.908333	41.525000	0.00	0.00	-0.00172	-0.11186	-0.11358	0	45.4 %
1144	15.925000	41.525000	0.00	-5.05	-0.34079	-0.10758	-0.44837	1	45.44 %
1145	15.941667	41.525000	0.00	-8.30	-0.56923	-0.10256	-0.67178	1	45.48 %
1146	15.958333	41.525000	0.00	-10.40	-0.71309	-0.09791	-0.81100	1	45.52 %
1147	15.975000	41.525000	0.00	-11.45	-0.79599	-0.09236	-0.88835	1	45.56 %
1148	15.991667	41.525000	0.00	-14.20	-0.97596	-0.08754	-1.06350	1	45.6 %
1149	16.008333	41.525000	0.00	-15.00	-1.03046	-0.08205	-1.11251	1	45.63 %
1150	16.025000	41.525000	0.00	-15.15	-1.04274	-0.07724	-1.11998	1	45.67 %
1151	16.041667	41.525000	0.00	-15.20	-1.04529	-0.07209	-1.11738	1	45.71 %
1152	16.058333	41.525000	0.00	-15.40	-1.05903	-0.06739	-1.12641	1	45.75 %

1153	16.075000	41.525000	0.00	-15.60	-1.07280	-0.06276	-1.13556	1	45.79 %
1154	16.091667	41.525000	0.00	-15.80	-1.08665	-0.05833	-1.14498	1	45.83 %
1155	16.108333	41.525000	0.00	-16.00	-1.10075	-0.05434	-1.15509	1	45.87 %
1156	16.125000	41.525000	0.00	-16.40	-1.12859	-0.05028	-1.17887	1	45.91 %
1157	16.141667	41.525000	0.00	-17.00	-1.16954	-0.04699	-1.21653	1	45.95 %
1158	16.158333	41.525000	0.00	-17.65	-1.21973	-0.04340	-1.26312	1	45.99 %
1159	16.175000	41.525000	0.00	-18.40	-1.26751	-0.04065	-1.30816	1	46.03 %
1160	16.191667	41.525000	0.00	-19.20	-1.32495	-0.03765	-1.36260	1	46.07 %
1161	16.208333	41.525000	0.00	-20.25	-1.39780	-0.03538	-1.43318	1	46.11 %
1162	16.225000	41.525000	0.00	-21.85	-1.50722	-0.03297	-1.54019	1	46.15 %
1163	16.241667	41.525000	0.00	-23.35	-1.61172	-0.03114	-1.64286	1	46.19 %
1164	16.258333	41.525000	0.00	-25.20	-1.73705	-0.02935	-1.76640	1	46.23 %
1165	16.275000	41.525000	0.00	-27.20	-1.87754	-0.02800	-1.90554	1	46.27 %
1166	16.291667	41.525000	0.00	-29.70	-2.04888	-0.02681	-2.07569	1	46.31 %
1167	16.308333	41.525000	0.00	-32.10	-2.21543	-0.02590	-2.24133	1	46.35 %
1168	16.325000	41.525000	0.00	-34.70	-2.39240	-0.02544	-2.41784	1	46.39 %
1169	16.341667	41.525000	0.00	-37.55	-2.59210	-0.02518	-2.61729	1	46.43 %
1170	16.358333	41.525000	0.00	-41.10	-2.81444	-0.02542	-2.83986	1	46.47 %
1171	16.375000	41.525000	0.00	-44.65	-3.05299	-0.02582	-3.07882	1	46.51 %
1172	16.391667	41.525000	0.00	-47.50	-3.25623	-0.02663	-3.28287	1	46.55 %
1173	16.408333	41.525000	0.00	-50.90	-3.49280	-0.02767	-3.52047	1	46.59 %
1174	16.425000	41.525000	0.00	-55.50	-3.79543	-0.02906	-3.82449	1	46.63 %
1175	16.441667	41.525000	0.00	-59.20	-4.05002	-0.03073	-4.08075	1	46.67 %
1176	16.458333	41.525000	0.00	-63.10	-4.31658	-0.03277	-4.34935	1	46.71 %
1177	16.475000	41.525000	0.00	-66.80	-4.57303	-0.03512	-4.60815	1	46.75 %
1178	16.491667	41.525000	0.00	-71.20	-4.86461	-0.03790	-4.90251	1	46.79 %
1179	16.508333	41.525000	0.00	-74.30	-5.08175	-0.04097	-5.12272	1	46.83 %
1180	16.525000	41.525000	0.00	-76.90	-5.26564	-0.04449	-5.31013	1	46.87 %
1181	16.541667	41.525000	0.00	-79.30	-5.43622	-0.04838	-5.48460	1	46.9 %
1182	16.558333	41.525000	0.00	-82.25	-5.62800	-0.05276	-5.68076	1	46.94 %
1183	16.575000	41.525000	0.00	-84.80	-5.80650	-0.05756	-5.86406	1	46.98 %
1184	16.591667	41.525000	0.00	-87.65	-5.99703	-0.06294	-6.05997	1	47.02 %
1185	16.608333	41.525000	0.00	-90.45	-6.18617	-0.06870	-6.25487	1	47.06 %
1186	16.625000	41.525000	0.00	-92.40	-6.33100	-0.07515	-6.40615	1	47.1 %
1187	16.641667	41.525000	0.00	-94.90	-6.49093	-0.08218	-6.57311	1	47.14 %
1188	16.658333	41.525000	0.00	-97.10	-6.64083	-0.08988	-6.73070	1	47.18 %
1189	16.675000	41.525000	0.00	-99.25	-6.79070	-0.09836	-6.88907	1	47.22 %
1190	16.691667	41.525000	0.00	-101.45	-6.94554	-0.10759	-7.05313	1	47.26 %
1191	16.708333	41.525000	0.00	-104.05	-7.11203	-0.11799	-7.23001	1	47.3 %
1192	16.725000	41.525000	0.00	-106.10	-7.25422	-0.12913	-7.38336	1	47.34 %

1193	16.741667	41.525000	0.00	-107.65	-7.36533	-0.14171	-7.50704	1	47.38 %
1194	16.758333	41.525000	0.00	-109.30	-7.48445	-0.15525	-7.63970	1	47.42 %
1195	16.775000	41.525000	0.00	-111.75	-7.64124	-0.17046	-7.81170	1	47.46 %
1196	16.791667	41.525000	0.00	-114.15	-7.80732	-0.18700	-7.99432	1	47.5 %
1197	16.808333	41.525000	0.00	-116.50	-7.96990	-0.20533	-8.17523	1	47.54 %
1198	16.825000	41.525000	0.00	-118.70	-8.12734	-0.22553	-8.35287	1	47.58 %
1199	16.841667	41.525000	0.00	-122.65	-8.37796	-0.24807	-8.62603	1	47.62 %
1200	15.858333	41.508333	2.00	2.00	0.13211	-0.09609	0.03601	0	47.66 %
1201	15.875000	41.508333	1.00	1.00	0.06808	-0.09433	-0.02625	0	47.7 %
1202	15.891667	41.508333	0.00	0.00	-0.00081	-0.09205	-0.09286	0	47.74 %
1203	15.908333	41.508333	0.00	0.00	-0.03028	-0.08877	-0.11904	0	47.78 %
1204	15.925000	41.508333	0.00	-1.85	-0.12951	-0.08548	-0.21499	1	47.82 %
1205	15.941667	41.508333	0.00	-6.10	-0.43056	-0.08169	-0.51225	1	47.86 %
1206	15.958333	41.508333	0.00	-8.00	-0.55112	-0.07824	-0.62935	1	47.9 %
1207	15.975000	41.508333	0.00	-8.75	-0.60837	-0.07405	-0.68242	1	47.94 %
1208	15.991667	41.508333	0.00	-11.95	-0.81856	-0.07056	-0.88912	1	47.98 %
1209	16.008333	41.508333	0.00	-14.25	-0.98086	-0.06644	-1.04730	1	48.02 %
1210	16.025000	41.508333	0.00	-15.20	-1.04371	-0.06287	-1.10658	1	48.06 %
1211	16.041667	41.508333	0.00	-15.20	-1.04512	-0.05900	-1.10412	1	48.1 %
1212	16.058333	41.508333	0.00	-15.40	-1.05887	-0.05547	-1.11434	1	48.13 %
1213	16.075000	41.508333	0.00	-15.60	-1.07128	-0.05198	-1.12326	1	48.17 %
1214	16.091667	41.508333	0.00	-15.65	-1.07598	-0.04861	-1.12460	1	48.21 %
1215	16.108333	41.508333	0.00	-16.00	-1.10105	-0.04561	-1.14666	1	48.25 %
1216	16.125000	41.508333	0.00	-16.50	-1.13853	-0.04248	-1.18101	1	48.29 %
1217	16.141667	41.508333	0.00	-17.20	-1.18679	-0.04001	-1.22680	1	48.33 %
1218	16.158333	41.508333	0.00	-18.00	-1.23937	-0.03721	-1.27658	1	48.37 %
1219	16.175000	41.508333	0.00	-18.80	-1.29412	-0.03517	-1.32929	1	48.41 %
1220	16.191667	41.508333	0.00	-19.60	-1.34834	-0.03280	-1.38114	1	48.45 %
1221	16.208333	41.508333	0.00	-20.60	-1.42087	-0.03108	-1.45196	1	48.49 %
1222	16.225000	41.508333	0.00	-22.00	-1.51619	-0.02918	-1.54537	1	48.53 %
1223	16.241667	41.508333	0.00	-23.40	-1.61272	-0.02780	-1.64052	1	48.57 %
1224	16.258333	41.508333	0.00	-25.10	-1.73223	-0.02643	-1.75865	1	48.61 %
1225	16.275000	41.508333	0.00	-27.50	-1.89180	-0.02536	-1.91716	1	48.65 %
1226	16.291667	41.508333	0.00	-29.90	-2.06036	-0.02448	-2.08484	1	48.69 %
1227	16.308333	41.508333	0.00	-32.10	-2.21125	-0.02378	-2.23503	1	48.73 %
1228	16.325000	41.508333	0.00	-34.50	-2.37565	-0.02355	-2.39920	1	48.77 %
1229	16.341667	41.508333	0.00	-37.60	-2.58464	-0.02343	-2.60806	1	48.81 %
1230	16.358333	41.508333	0.00	-40.50	-2.77647	-0.02379	-2.80026	1	48.85 %
1231	16.375000	41.508333	0.00	-43.60	-2.98430	-0.02424	-3.00855	1	48.89 %
1232	16.391667	41.508333	0.00	-46.55	-3.18958	-0.02513	-3.21470	1	48.93 %
1233	16.408333	41.508333	0.00	-50.70	-3.47816	-0.02616	-3.50432	1	48.97 %

1234	16.425000	41.508333	0.00	-54.75	-3.74358	-0.02754	-3.77113	1	49.01 %
1235	16.441667	41.508333	0.00	-58.10	-3.97983	-0.02915	-4.00898	1	49.05 %
1236	16.458333	41.508333	0.00	-61.95	-4.24244	-0.03115	-4.27358	1	49.09 %
1237	16.475000	41.508333	0.00	-65.85	-4.50636	-0.03343	-4.53979	1	49.13 %
1238	16.491667	41.508333	0.00	-69.95	-4.78025	-0.03602	-4.81627	1	49.17 %
1239	16.508333	41.508333	0.00	-73.05	-4.99668	-0.03897	-5.03565	1	49.21 %
1240	16.525000	41.508333	0.00	-76.05	-5.20545	-0.04228	-5.24772	1	49.25 %
1241	16.541667	41.508333	0.00	-78.65	-5.39065	-0.04605	-5.43670	1	49.29 %
1242	16.558333	41.508333	0.00	-81.50	-5.58330	-0.05021	-5.63351	1	49.33 %
1243	16.575000	41.508333	0.00	-84.50	-5.78291	-0.05475	-5.83767	1	49.37 %
1244	16.591667	41.508333	0.00	-86.90	-5.94990	-0.05984	-6.00974	1	49.4 %
1245	16.608333	41.508333	0.00	-89.40	-6.12193	-0.06535	-6.18728	1	49.44 %
1246	16.625000	41.508333	0.00	-91.70	-6.27479	-0.07147	-6.34626	1	49.48 %
1247	16.641667	41.508333	0.00	-93.80	-6.41953	-0.07810	-6.49763	1	49.52 %
1248	16.658333	41.508333	0.00	-95.90	-6.56428	-0.08537	-6.64965	1	49.56 %
1249	16.675000	41.508333	0.00	-98.25	-6.72605	-0.09338	-6.81943	1	49.6 %
1250	16.691667	41.508333	0.00	-100.95	-6.90271	-0.10211	-7.00483	1	49.64 %
1251	16.708333	41.508333	0.00	-103.40	-7.07128	-0.11188	-7.18316	1	49.68 %
1252	16.725000	41.508333	0.00	-105.65	-7.22648	-0.12240	-7.34887	1	49.72 %
1253	16.741667	41.508333	0.00	-107.20	-7.33802	-0.13421	-7.47223	1	49.76 %
1254	16.758333	41.508333	0.00	-109.20	-7.46991	-0.14696	-7.61686	1	49.8 %
1255	16.775000	41.508333	0.00	-111.20	-7.60620	-0.16125	-7.76745	1	49.84 %
1256	16.791667	41.508333	0.00	-113.25	-7.74537	-0.17672	-7.92209	1	49.88 %
1257	16.808333	41.508333	0.00	-115.35	-7.88972	-0.19386	-8.08357	1	49.92 %
1258	16.825000	41.508333	0.00	-117.85	-8.05879	-0.21275	-8.27154	1	49.96 %
1259	16.841667	41.508333	0.00	-121.20	-8.28209	-0.23367	-8.51577	1	50.0 %
1260	15.858333	41.491667	3.00	3.00	0.27733	-0.07478	0.20255	0	50.04 %
1261	15.875000	41.491667	0.00	0.00	-0.00044	-0.07483	-0.07527	0	50.08 %
1262	15.891667	41.491667	-1.00	-1.00	-0.00038	-0.07301	-0.07339	0	50.12 %
1263	15.908333	41.491667	-1.00	-1.00	-0.00038	-0.07033	-0.07072	0	50.16 %
1264	15.925000	41.491667	-1.00	-1.00	-0.00068	-0.06772	-0.06840	0	50.2 %
1265	15.941667	41.491667	0.00	-6.25	-0.45159	-0.06419	-0.51578	1	50.24 %
1266	15.958333	41.491667	0.00	-9.90	-0.67928	-0.06159	-0.74087	1	50.28 %
1267	15.975000	41.491667	0.00	-10.10	-0.68761	-0.05846	-0.74608	1	50.32 %
1268	15.991667	41.491667	0.00	-10.20	-0.70295	-0.05586	-0.75882	1	50.36 %
1269	16.008333	41.491667	0.00	-11.80	-0.82666	-0.05282	-0.87948	1	50.4 %
1270	16.025000	41.491667	0.00	-14.45	-0.99653	-0.05017	-1.04670	1	50.44 %
1271	16.041667	41.491667	0.00	-15.00	-1.03094	-0.04734	-1.07828	1	50.48 %
1272	16.058333	41.491667	0.00	-15.20	-1.04476	-0.04470	-1.08946	1	50.52 %
1273	16.075000	41.491667	0.00	-15.20	-1.04537	-0.04217	-1.08754	1	50.56 %

1274	16.091667	41.491667	0.00	-15.40	-1.05926	-0.03963	-1.09889	1	50.6 %
1275	16.108333	41.491667	0.00	-15.80	-1.09200	-0.03746	-1.12945	1	50.63 %
1276	16.125000	41.491667	0.00	-16.45	-1.13593	-0.03513	-1.17107	1	50.67 %
1277	16.141667	41.491667	0.00	-17.20	-1.18694	-0.03335	-1.22029	1	50.71 %
1278	16.158333	41.491667	0.00	-18.20	-1.25136	-0.03125	-1.28261	1	50.75 %
1279	16.175000	41.491667	0.00	-19.15	-1.31719	-0.02979	-1.34698	1	50.79 %
1280	16.191667	41.491667	0.00	-20.00	-1.37727	-0.02800	-1.40526	1	50.83 %
1281	16.208333	41.491667	0.00	-20.90	-1.43998	-0.02681	-1.46680	1	50.87 %
1282	16.225000	41.491667	0.00	-22.00	-1.51675	-0.02539	-1.54214	1	50.91 %
1283	16.241667	41.491667	0.00	-23.20	-1.60022	-0.02440	-1.62462	1	50.95 %
1284	16.258333	41.491667	0.00	-24.95	-1.71598	-0.02343	-1.73941	1	50.99 %
1285	16.275000	41.491667	0.00	-27.10	-1.86579	-0.02266	-1.88845	1	51.03 %
1286	16.291667	41.491667	0.00	-29.50	-2.03468	-0.02213	-2.05681	1	51.07 %
1287	16.308333	41.491667	0.00	-31.65	-2.18258	-0.02162	-2.20420	1	51.11 %
1288	16.325000	41.491667	0.00	-33.80	-2.33110	-0.02162	-2.35272	1	51.15 %
1289	16.341667	41.491667	0.00	-36.75	-2.53564	-0.02162	-2.55726	1	51.19 %
1290	16.358333	41.491667	0.00	-39.75	-2.72490	-0.02211	-2.74702	1	51.23 %
1291	16.375000	41.491667	0.00	-42.50	-2.91795	-0.02262	-2.94058	1	51.27 %
1292	16.391667	41.491667	0.00	-45.20	-3.11045	-0.02359	-3.13404	1	51.31 %
1293	16.408333	41.491667	0.00	-50.10	-3.42952	-0.02460	-3.45412	1	51.35 %
1294	16.425000	41.491667	0.00	-53.30	-3.65406	-0.02604	-3.68010	1	51.39 %
1295	16.441667	41.491667	0.00	-56.70	-3.88826	-0.02763	-3.91589	1	51.43 %
1296	16.458333	41.491667	0.00	-60.80	-4.16923	-0.02954	-4.19877	1	51.47 %
1297	16.475000	41.491667	0.00	-64.60	-4.42732	-0.03174	-4.45907	1	51.51 %
1298	16.491667	41.491667	0.00	-68.45	-4.68733	-0.03422	-4.72154	1	51.55 %
1299	16.508333	41.491667	0.00	-71.75	-4.91374	-0.03708	-4.95082	1	51.59 %
1300	16.525000	41.491667	0.00	-74.95	-5.13835	-0.04022	-5.17858	1	51.63 %
1301	16.541667	41.491667	0.00	-78.25	-5.35363	-0.04378	-5.39741	1	51.67 %
1302	16.558333	41.491667	0.00	-80.90	-5.54022	-0.04769	-5.58791	1	51.71 %
1303	16.575000	41.491667	0.00	-83.75	-5.73646	-0.05206	-5.78852	1	51.75 %
1304	16.591667	41.491667	0.00	-86.15	-5.90076	-0.05686	-5.95762	1	51.79 %
1305	16.608333	41.491667	0.00	-88.70	-6.07160	-0.06210	-6.13370	1	51.83 %
1306	16.625000	41.491667	0.00	-90.70	-6.21340	-0.06787	-6.28127	1	51.87 %
1307	16.641667	41.491667	0.00	-93.05	-6.37199	-0.07416	-6.44614	1	51.9 %
1308	16.658333	41.491667	0.00	-95.10	-6.51433	-0.08102	-6.59535	1	51.94 %
1309	16.675000	41.491667	0.00	-97.80	-6.69188	-0.08864	-6.78052	1	51.98 %
1310	16.691667	41.491667	0.00	-100.15	-6.85660	-0.09688	-6.95348	1	52.02 %
1311	16.708333	41.491667	0.00	-102.50	-7.01830	-0.10609	-7.12439	1	52.06 %
1312	16.725000	41.491667	0.00	-105.05	-7.18531	-0.11602	-7.30133	1	52.1 %
1313	16.741667	41.491667	0.00	-106.80	-7.31095	-0.12716	-7.43811	1	52.14 %
1314	16.758333	41.491667	0.00	-108.75	-7.44126	-0.13921	-7.58047	1	52.18 %

1315	16.775000	41.491667	0.00	-110.60	-7.56868	-0.15257	-7.72124	1	52.22 %
1316	16.791667	41.491667	0.00	-112.30	-7.68622	-0.16715	-7.85337	1	52.26 %
1317	16.808333	41.491667	0.00	-114.00	-7.81021	-0.18323	-7.99344	1	52.3 %
1318	16.825000	41.491667	0.00	-116.30	-7.96150	-0.20091	-8.16241	1	52.34 %
1319	16.841667	41.491667	0.00	-119.85	-8.19546	-0.22058	-8.41604	1	52.38 %
1320	15.858333	41.475000	2.00	2.00	0.22056	-0.06096	0.15960	0	52.42 %
1321	15.875000	41.475000	0.00	0.00	-0.04573	-0.06053	-0.10626	0	52.46 %
1322	15.891667	41.475000	1.00	1.00	0.05038	-0.05773	-0.00735	0	52.5 %
1323	15.908333	41.475000	1.00	1.00	0.09318	-0.05562	0.03756	0	52.54 %
1324	15.925000	41.475000	-1.00	-1.00	-0.00048	-0.05473	-0.05520	0	52.58 %
1325	15.941667	41.475000	1.00	1.00	0.05699	-0.05131	0.00568	0	52.62 %
1326	15.958333	41.475000	0.00	-9.10	-0.63073	-0.04984	-0.68056	1	52.66 %
1327	15.975000	41.475000	0.00	-11.00	-0.75471	-0.04743	-0.80214	1	52.7 %
1328	15.991667	41.475000	0.00	-10.00	-0.68834	-0.04546	-0.73381	1	52.74 %
1329	16.008333	41.475000	0.00	-10.95	-0.76619	-0.04314	-0.80932	1	52.78 %
1330	16.025000	41.475000	0.00	-13.45	-0.92854	-0.04119	-0.96973	1	52.82 %
1331	16.041667	41.475000	0.00	-12.90	-0.89457	-0.03902	-0.93359	1	52.86 %
1332	16.058333	41.475000	0.00	-13.80	-0.95599	-0.03710	-0.99309	1	52.9 %
1333	16.075000	41.475000	0.00	-14.40	-0.99270	-0.03514	-1.02784	1	52.94 %
1334	16.091667	41.475000	0.00	-14.85	-1.02581	-0.03331	-1.05912	1	52.98 %
1335	16.108333	41.475000	0.00	-15.40	-1.05977	-0.03163	-1.09140	1	53.02 %
1336	16.125000	41.475000	0.00	-16.20	-1.11552	-0.02997	-1.14549	1	53.06 %
1337	16.141667	41.475000	0.00	-17.10	-1.17860	-0.02861	-1.20721	1	53.1 %
1338	16.158333	41.475000	0.00	-18.15	-1.25075	-0.02712	-1.27787	1	53.13 %
1339	16.175000	41.475000	0.00	-19.55	-1.34971	-0.02605	-1.37576	1	53.17 %
1340	16.191667	41.475000	0.00	-20.40	-1.40246	-0.02477	-1.42723	1	53.21 %
1341	16.208333	41.475000	0.00	-21.00	-1.44425	-0.02392	-1.46817	1	53.25 %
1342	16.225000	41.475000	0.00	-21.90	-1.50859	-0.02285	-1.53144	1	53.29 %
1343	16.241667	41.475000	0.00	-23.00	-1.58310	-0.02220	-1.60530	1	53.33 %
1344	16.258333	41.475000	0.00	-24.40	-1.68131	-0.02144	-1.70274	1	53.37 %
1345	16.275000	41.475000	0.00	-26.20	-1.80690	-0.02098	-1.82789	1	53.41 %
1346	16.291667	41.475000	0.00	-28.50	-1.96913	-0.02057	-1.98970	1	53.45 %
1347	16.308333	41.475000	0.00	-30.90	-2.12952	-0.02031	-2.14982	1	53.49 %
1348	16.325000	41.475000	0.00	-33.10	-2.27766	-0.02034	-2.29800	1	53.53 %
1349	16.341667	41.475000	0.00	-35.45	-2.44664	-0.02053	-2.46717	1	53.57 %
1350	16.358333	41.475000	0.00	-38.50	-2.63989	-0.02101	-2.66091	1	53.61 %
1351	16.375000	41.475000	0.00	-41.60	-2.85595	-0.02164	-2.87758	1	53.65 %
1352	16.391667	41.475000	0.00	-44.80	-3.07086	-0.02258	-3.09344	1	53.69 %
1353	16.408333	41.475000	0.00	-48.50	-3.32646	-0.02362	-3.35008	1	53.73 %
1354	16.425000	41.475000	0.00	-51.90	-3.55670	-0.02497	-3.58167	1	53.77 %

1355	16.441667	41.475000	0.00	-55.10	-3.77877	-0.02649	-3.80525	1	53.81 %
1356	16.458333	41.475000	0.00	-59.75	-4.08829	-0.02834	-4.11664	1	53.85 %
1357	16.475000	41.475000	0.00	-63.15	-4.32842	-0.03038	-4.35880	1	53.89 %
1358	16.491667	41.475000	0.00	-66.75	-4.57398	-0.03279	-4.60677	1	53.93 %
1359	16.508333	41.475000	0.00	-70.05	-4.80019	-0.03544	-4.83562	1	53.97 %
1360	16.525000	41.475000	0.00	-74.00	-5.07023	-0.03843	-5.10866	1	54.01 %
1361	16.541667	41.475000	0.00	-77.40	-5.29942	-0.04176	-5.34118	1	54.05 %
1362	16.558333	41.475000	0.00	-80.30	-5.49921	-0.04550	-5.54471	1	54.09 %
1363	16.575000	41.475000	0.00	-82.90	-5.67887	-0.04958	-5.72845	1	54.13 %
1364	16.591667	41.475000	0.00	-85.20	-5.83837	-0.05414	-5.89251	1	54.17 %
1365	16.608333	41.475000	0.00	-88.10	-6.02874	-0.05906	-6.08780	1	54.21 %
1366	16.625000	41.475000	0.00	-90.30	-6.18377	-0.06453	-6.24830	1	54.25 %
1367	16.641667	41.475000	0.00	-92.40	-6.32880	-0.07054	-6.39934	1	54.29 %
1368	16.658333	41.475000	0.00	-94.70	-6.49027	-0.07698	-6.56725	1	54.33 %
1369	16.675000	41.475000	0.00	-97.25	-6.65482	-0.08417	-6.73899	1	54.37 %
1370	16.691667	41.475000	0.00	-99.50	-6.81083	-0.09193	-6.90276	1	54.4 %
1371	16.708333	41.475000	0.00	-101.70	-6.96259	-0.10067	-7.06326	1	54.44 %
1372	16.725000	41.475000	0.00	-104.10	-7.12766	-0.11002	-7.23768	1	54.48 %
1373	16.741667	41.475000	0.00	-106.20	-7.26601	-0.12052	-7.38652	1	54.52 %
1374	16.758333	41.475000	0.00	-108.00	-7.39108	-0.13187	-7.52295	1	54.56 %
1375	16.775000	41.475000	0.00	-109.90	-7.51970	-0.14452	-7.66423	1	54.6 %
1376	16.791667	41.475000	0.00	-111.50	-7.63417	-0.15821	-7.79237	1	54.64 %
1377	16.808333	41.475000	0.00	-113.30	-7.75292	-0.17333	-7.92626	1	54.68 %
1378	16.825000	41.475000	0.00	-114.90	-7.87092	-0.18999	-8.06091	1	54.72 %
1379	16.841667	41.475000	0.00	-118.30	-8.09074	-0.20837	-8.29911	1	54.76 %
1380	15.858333	41.458333	4.00	4.00	0.44252	-0.05043	0.39209	0	54.8 %
1381	15.875000	41.458333	2.00	2.00	0.17770	-0.05016	0.12754	0	54.84 %
1382	15.891667	41.458333	2.00	2.00	0.20673	-0.04831	0.15842	0	54.88 %
1383	15.908333	41.458333	1.00	1.00	0.11033	-0.04715	0.06318	0	54.92 %
1384	15.925000	41.458333	-1.00	-1.00	-0.00035	-0.04650	-0.04685	0	54.96 %
1385	15.941667	41.458333	-2.00	-2.00	-0.00047	-0.04520	-0.04568	0	55.0 %
1386	15.958333	41.458333	2.00	2.00	0.17789	-0.04129	0.13659	0	55.04 %
1387	15.975000	41.458333	0.00	-9.10	-0.63462	-0.04045	-0.67507	1	55.08 %
1388	15.991667	41.458333	0.00	-10.00	-0.68812	-0.03886	-0.72698	1	55.12 %
1389	16.008333	41.458333	0.00	-10.05	-0.69528	-0.03706	-0.73235	1	55.16 %
1390	16.025000	41.458333	0.00	-10.75	-0.74343	-0.03552	-0.77895	1	55.2 %
1391	16.041667	41.458333	0.00	-11.30	-0.78069	-0.03386	-0.81454	1	55.24 %
1392	16.058333	41.458333	0.00	-11.15	-0.76889	-0.03236	-0.80125	1	55.28 %
1393	16.075000	41.458333	0.00	-12.75	-0.88568	-0.03088	-0.91656	1	55.32 %
1394	16.091667	41.458333	0.00	-13.70	-0.95012	-0.02951	-0.97963	1	55.36 %
1395	16.108333	41.458333	0.00	-14.80	-1.01946	-0.02823	-1.04769	1	55.4 %

1396	16.125000	41.458333	0.00	-15.60	-1.07811	-0.02698	-1.10509	1	55.44 %
1397	16.141667	41.458333	0.00	-16.60	-1.14570	-0.02599	-1.17170	1	55.48 %
1398	16.158333	41.458333	0.00	-17.65	-1.21867	-0.02486	-1.24353	1	55.52 %
1399	16.175000	41.458333	0.00	-19.10	-1.31559	-0.02408	-1.33967	1	55.56 %
1400	16.191667	41.458333	0.00	-20.20	-1.38763	-0.02311	-1.41074	1	55.6 %
1401	16.208333	41.458333	0.00	-20.65	-1.42444	-0.02247	-1.44691	1	55.63 %
1402	16.225000	41.458333	0.00	-21.50	-1.48241	-0.02170	-1.50411	1	55.67 %
1403	16.241667	41.458333	0.00	-22.60	-1.55335	-0.02118	-1.57453	1	55.71 %
1404	16.258333	41.458333	0.00	-23.80	-1.64075	-0.02067	-1.66142	1	55.75 %
1405	16.275000	41.458333	0.00	-25.05	-1.72891	-0.02031	-1.74922	1	55.79 %
1406	16.291667	41.458333	0.00	-27.10	-1.87152	-0.02006	-1.89158	1	55.83 %
1407	16.308333	41.458333	0.00	-29.90	-2.06050	-0.01989	-2.08039	1	55.87 %
1408	16.325000	41.458333	0.00	-31.80	-2.19784	-0.02001	-2.21785	1	55.91 %
1409	16.341667	41.458333	0.00	-34.25	-2.36172	-0.02024	-2.38196	1	55.95 %
1410	16.358333	41.458333	0.00	-37.10	-2.54487	-0.02075	-2.56561	1	55.99 %
1411	16.375000	41.458333	0.00	-40.65	-2.79039	-0.02132	-2.81171	1	56.03 %
1412	16.391667	41.458333	0.00	-43.95	-3.01131	-0.02219	-3.03350	1	56.07 %
1413	16.408333	41.458333	0.00	-47.10	-3.23132	-0.02321	-3.25453	1	56.11 %
1414	16.425000	41.458333	0.00	-50.30	-3.45310	-0.02444	-3.47754	1	56.15 %
1415	16.441667	41.458333	0.00	-53.45	-3.67598	-0.02588	-3.70187	1	56.19 %
1416	16.458333	41.458333	0.00	-57.90	-3.96518	-0.02756	-3.99274	1	56.23 %
1417	16.475000	41.458333	0.00	-61.60	-4.22217	-0.02952	-4.25169	1	56.27 %
1418	16.491667	41.458333	0.00	-65.30	-4.47173	-0.03171	-4.50343	1	56.31 %
1419	16.508333	41.458333	0.00	-68.65	-4.71061	-0.03418	-4.74479	1	56.35 %
1420	16.525000	41.458333	0.00	-72.85	-4.98756	-0.03695	-5.02451	1	56.39 %
1421	16.541667	41.458333	0.00	-76.20	-5.21901	-0.04005	-5.25906	1	56.43 %
1422	16.558333	41.458333	0.00	-79.30	-5.43224	-0.04356	-5.47580	1	56.47 %
1423	16.575000	41.458333	0.00	-82.10	-5.62897	-0.04738	-5.67635	1	56.51 %
1424	16.591667	41.458333	0.00	-84.90	-5.81327	-0.05165	-5.86492	1	56.55 %
1425	16.608333	41.458333	0.00	-87.90	-6.01252	-0.05624	-6.06876	1	56.59 %
1426	16.625000	41.458333	0.00	-89.70	-6.14266	-0.06141	-6.20407	1	56.63 %
1427	16.641667	41.458333	0.00	-91.55	-6.27751	-0.06702	-6.34453	1	56.67 %
1428	16.658333	41.458333	0.00	-94.70	-6.47521	-0.07314	-6.54835	1	56.71 %
1429	16.675000	41.458333	0.00	-96.60	-6.61402	-0.07986	-6.69388	1	56.75 %
1430	16.691667	41.458333	0.00	-98.80	-6.76384	-0.08718	-6.85101	1	56.79 %
1431	16.708333	41.458333	0.00	-100.95	-6.91410	-0.09540	-7.00950	1	56.83 %
1432	16.725000	41.458333	0.00	-103.40	-7.07354	-0.10423	-7.17778	1	56.87 %
1433	16.741667	41.458333	0.00	-105.40	-7.21108	-0.11411	-7.32518	1	56.9 %
1434	16.758333	41.458333	0.00	-107.15	-7.33113	-0.12477	-7.45590	1	56.94 %
1435	16.775000	41.458333	0.00	-108.90	-7.45396	-0.13670	-7.59066	1	56.98 %

1436	16.791667	41.458333	0.00	-110.70	-7.57498	-0.14960	-7.72458	1	57.02 %
1437	16.808333	41.458333	0.00	-112.35	-7.69203	-0.16380	-7.85583	1	57.06 %
1438	16.825000	41.458333	0.00	-114.15	-7.81490	-0.17944	-7.99435	1	57.1 %
1439	16.841667	41.458333	0.00	-116.75	-7.99226	-0.19667	-8.18893	1	57.14 %
1440	15.858333	41.441667	6.00	6.00	0.66877	-0.04258	0.62619	0	57.18 %
1441	15.875000	41.441667	7.00	7.00	0.78284	-0.04034	0.74250	0	57.22 %
1442	15.891667	41.441667	4.00	4.00	0.42222	-0.04073	0.38149	0	57.26 %
1443	15.908333	41.441667	1.00	1.00	0.02996	-0.04097	-0.01101	0	57.3 %
1444	15.925000	41.441667	-1.00	-1.00	-0.00045	-0.04058	-0.04103	0	57.34 %
1445	15.941667	41.441667	-1.00	-1.00	-0.00040	-0.03895	-0.03935	0	57.38 %
1446	15.958333	41.441667	-1.00	-1.00	-0.00052	-0.03748	-0.03800	0	57.42 %
1447	15.975000	41.441667	0.00	0.00	-0.02257	-0.03536	-0.05793	0	57.46 %
1448	15.991667	41.441667	0.00	-1.00	-0.08872	-0.03405	-0.12277	1	57.5 %
1449	16.008333	41.441667	0.00	-5.65	-0.42471	-0.03265	-0.45736	1	57.54 %
1450	16.025000	41.441667	0.00	-9.25	-0.64513	-0.03142	-0.67656	1	57.58 %
1451	16.041667	41.441667	0.00	-10.20	-0.70663	-0.03015	-0.73678	1	57.62 %
1452	16.058333	41.441667	0.00	-11.00	-0.75602	-0.02896	-0.78498	1	57.66 %
1453	16.075000	41.441667	0.00	-11.05	-0.76532	-0.02789	-0.79321	1	57.7 %
1454	16.091667	41.441667	0.00	-13.10	-0.90516	-0.02680	-0.93196	1	57.74 %
1455	16.108333	41.441667	0.00	-14.00	-0.96188	-0.02592	-0.98780	1	57.78 %
1456	16.125000	41.441667	0.00	-14.80	-1.02760	-0.02496	-1.05257	1	57.82 %
1457	16.141667	41.441667	0.00	-16.00	-1.10233	-0.02431	-1.12664	1	57.86 %
1458	16.158333	41.441667	0.00	-16.95	-1.16917	-0.02346	-1.19263	1	57.9 %
1459	16.175000	41.441667	0.00	-18.15	-1.25026	-0.02296	-1.27322	1	57.94 %
1460	16.191667	41.441667	0.00	-19.20	-1.32324	-0.02225	-1.34549	1	57.98 %
1461	16.208333	41.441667	0.00	-20.20	-1.38857	-0.02183	-1.41040	1	58.02 %
1462	16.225000	41.441667	0.00	-21.05	-1.45230	-0.02128	-1.47357	1	58.06 %
1463	16.241667	41.441667	0.00	-22.05	-1.52047	-0.02091	-1.54138	1	58.1 %
1464	16.258333	41.441667	0.00	-23.10	-1.59181	-0.02057	-1.61238	1	58.13 %
1465	16.275000	41.441667	0.00	-24.20	-1.66559	-0.02029	-1.68588	1	58.17 %
1466	16.291667	41.441667	0.00	-25.70	-1.77848	-0.02016	-1.79864	1	58.21 %
1467	16.308333	41.441667	0.00	-28.35	-1.95493	-0.02005	-1.97498	1	58.25 %
1468	16.325000	41.441667	0.00	-30.35	-2.09577	-0.02025	-2.11602	1	58.29 %
1469	16.341667	41.441667	0.00	-32.60	-2.25142	-0.02043	-2.27185	1	58.33 %
1470	16.358333	41.441667	0.00	-35.10	-2.41602	-0.02097	-2.43698	1	58.37 %
1471	16.375000	41.441667	0.00	-39.35	-2.69849	-0.02147	-2.71996	1	58.41 %
1472	16.391667	41.441667	0.00	-42.30	-2.90372	-0.02230	-2.92602	1	58.45 %
1473	16.408333	41.441667	0.00	-45.60	-3.12903	-0.02322	-3.15225	1	58.49 %
1474	16.425000	41.441667	0.00	-48.85	-3.35247	-0.02437	-3.37684	1	58.53 %
1475	16.441667	41.441667	0.00	-52.45	-3.59481	-0.02571	-3.62052	1	58.57 %
1476	16.458333	41.441667	0.00	-56.10	-3.84390	-0.02722	-3.87113	1	58.61 %

1477	16.475000	41.441667	0.00	-60.15	-4.11924	-0.02900	-4.14824	1	58.65 %
1478	16.491667	41.441667	0.00	-63.40	-4.34906	-0.03096	-4.38002	1	58.69 %
1479	16.508333	41.441667	0.00	-67.20	-4.60286	-0.03324	-4.63610	1	58.73 %
1480	16.525000	41.441667	0.00	-71.15	-4.87458	-0.03577	-4.91035	1	58.77 %
1481	16.541667	41.441667	0.00	-74.70	-5.11556	-0.03865	-5.15421	1	58.81 %
1482	16.558333	41.441667	0.00	-77.80	-5.33298	-0.04184	-5.37482	1	58.85 %
1483	16.575000	41.441667	0.00	-80.90	-5.53720	-0.04540	-5.58260	1	58.89 %
1484	16.591667	41.441667	0.00	-83.90	-5.74289	-0.04931	-5.79220	1	58.93 %
1485	16.608333	41.441667	0.00	-86.60	-5.92742	-0.05366	-5.98108	1	58.97 %
1486	16.625000	41.441667	0.00	-88.70	-6.07388	-0.05847	-6.13235	1	59.01 %
1487	16.641667	41.441667	0.00	-90.70	-6.21090	-0.06370	-6.27460	1	59.05 %
1488	16.658333	41.441667	0.00	-93.40	-6.39775	-0.06947	-6.46722	1	59.09 %
1489	16.675000	41.441667	0.00	-95.65	-6.55148	-0.07576	-6.62724	1	59.13 %
1490	16.691667	41.441667	0.00	-97.90	-6.70095	-0.08264	-6.78360	1	59.17 %
1491	16.708333	41.441667	0.00	-100.30	-6.86314	-0.09036	-6.95350	1	59.21 %
1492	16.725000	41.441667	0.00	-102.30	-7.00159	-0.09865	-7.10023	1	59.25 %
1493	16.741667	41.441667	0.00	-104.25	-7.13373	-0.10793	-7.24167	1	59.29 %
1494	16.758333	41.441667	0.00	-106.00	-7.25819	-0.11803	-7.37622	1	59.33 %
1495	16.775000	41.441667	0.00	-107.95	-7.38680	-0.12925	-7.51605	1	59.37 %
1496	16.791667	41.441667	0.00	-109.70	-7.50886	-0.14138	-7.65024	1	59.4 %
1497	16.808333	41.441667	0.00	-111.50	-7.62902	-0.15469	-7.78371	1	59.44 %
1498	16.825000	41.441667	0.00	-113.15	-7.74638	-0.16945	-7.91583	1	59.48 %
1499	16.841667	41.441667	0.00	-114.95	-7.87211	-0.18561	-8.05772	1	59.52 %
1500	15.858333	41.425000	8.00	8.00	0.87491	-0.03650	0.83842	0	59.56 %
1501	15.875000	41.425000	5.00	5.00	0.53736	-0.03698	0.50038	0	59.6 %
1502	15.891667	41.425000	3.00	3.00	0.33287	-0.03674	0.29613	0	59.64 %
1503	15.908333	41.425000	1.00	1.00	0.07965	-0.03642	0.04323	0	59.68 %
1504	15.925000	41.425000	2.00	2.00	0.19553	-0.03434	0.16119	0	59.72 %
1505	15.941667	41.425000	2.00	2.00	0.19491	-0.03293	0.16197	0	59.76 %
1506	15.958333	41.425000	1.00	1.00	0.10971	-0.03232	0.07739	0	59.8 %
1507	15.975000	41.425000	-2.00	-2.00	-0.00073	-0.03262	-0.03335	0	59.84 %
1508	15.991667	41.425000	-2.00	-2.00	-0.00071	-0.03151	-0.03223	0	59.88 %
1509	16.008333	41.425000	-2.00	-2.00	-0.00080	-0.03033	-0.03113	0	59.92 %
1510	16.025000	41.425000	0.00	0.00	-0.00177	-0.02842	-0.03019	0	59.96 %
1511	16.041667	41.425000	0.00	-3.65	-0.31842	-0.02741	-0.34583	1	60.0 %
1512	16.058333	41.425000	0.00	-8.55	-0.59972	-0.02654	-0.62627	1	60.04 %
1513	16.075000	41.425000	0.00	-9.30	-0.65075	-0.02575	-0.67650	1	60.08 %
1514	16.091667	41.425000	0.00	-10.00	-0.68864	-0.02496	-0.71361	1	60.12 %
1515	16.108333	41.425000	0.00	-11.40	-0.79536	-0.02439	-0.81974	1	60.16 %
1516	16.125000	41.425000	0.00	-12.45	-0.86898	-0.02372	-0.89270	1	60.2 %

1517	16.141667	41.425000	0.00	-14.60	-1.01379	-0.02332	-1.03710	1	60.24 %
1518	16.158333	41.425000	0.00	-15.95	-1.10054	-0.02273	-1.12328	1	60.28 %
1519	16.175000	41.425000	0.00	-17.05	-1.17754	-0.02249	-1.20003	1	60.32 %
1520	16.191667	41.425000	0.00	-18.45	-1.27627	-0.02198	-1.29824	1	60.36 %
1521	16.208333	41.425000	0.00	-20.00	-1.37451	-0.02176	-1.39627	1	60.4 %
1522	16.225000	41.425000	0.00	-20.60	-1.41573	-0.02136	-1.43709	1	60.44 %
1523	16.241667	41.425000	0.00	-21.20	-1.46077	-0.02117	-1.48195	1	60.48 %
1524	16.258333	41.425000	0.00	-22.20	-1.52683	-0.02093	-1.54776	1	60.52 %
1525	16.275000	41.425000	0.00	-23.20	-1.60133	-0.02079	-1.62211	1	60.56 %
1526	16.291667	41.425000	0.00	-24.80	-1.70947	-0.02077	-1.73024	1	60.6 %
1527	16.308333	41.425000	0.00	-26.45	-1.83056	-0.02069	-1.85126	1	60.63 %
1528	16.325000	41.425000	0.00	-28.25	-1.95211	-0.02093	-1.97303	1	60.67 %
1529	16.341667	41.425000	0.00	-30.50	-2.11019	-0.02110	-2.13130	1	60.71 %
1530	16.358333	41.425000	0.00	-33.25	-2.28597	-0.02161	-2.30758	1	60.75 %
1531	16.375000	41.425000	0.00	-36.75	-2.51968	-0.02205	-2.54173	1	60.79 %
1532	16.391667	41.425000	0.00	-40.40	-2.77002	-0.02280	-2.79283	1	60.83 %
1533	16.408333	41.425000	0.00	-43.40	-2.98007	-0.02358	-3.00365	1	60.87 %
1534	16.425000	41.425000	0.00	-47.10	-3.22884	-0.02463	-3.25347	1	60.91 %
1535	16.441667	41.425000	0.00	-50.55	-3.46720	-0.02579	-3.49299	1	60.95 %
1536	16.458333	41.425000	0.00	-54.00	-3.70522	-0.02717	-3.73239	1	60.99 %
1537	16.475000	41.425000	0.00	-57.90	-3.97197	-0.02872	-4.00069	1	61.03 %
1538	16.491667	41.425000	0.00	-62.10	-4.25254	-0.03056	-4.28310	1	61.07 %
1539	16.508333	41.425000	0.00	-65.20	-4.46763	-0.03261	-4.50025	1	61.11 %
1540	16.525000	41.425000	0.00	-69.20	-4.74155	-0.03492	-4.77647	1	61.15 %
1541	16.541667	41.425000	0.00	-72.75	-4.98273	-0.03753	-5.02026	1	61.19 %
1542	16.558333	41.425000	0.00	-76.10	-5.20948	-0.04041	-5.24990	1	61.23 %
1543	16.575000	41.425000	0.00	-78.70	-5.39078	-0.04368	-5.43447	1	61.27 %
1544	16.591667	41.425000	0.00	-81.80	-5.60111	-0.04734	-5.64845	1	61.31 %
1545	16.608333	41.425000	0.00	-84.75	-5.80500	-0.05132	-5.85632	1	61.35 %
1546	16.625000	41.425000	0.00	-87.85	-6.01618	-0.05579	-6.07198	1	61.39 %
1547	16.641667	41.425000	0.00	-90.00	-6.16032	-0.06068	-6.22100	1	61.43 %
1548	16.658333	41.425000	0.00	-92.15	-6.30984	-0.06600	-6.37584	1	61.47 %
1549	16.675000	41.425000	0.00	-94.25	-6.45641	-0.07198	-6.52839	1	61.51 %
1550	16.691667	41.425000	0.00	-96.60	-6.61960	-0.07837	-6.69796	1	61.55 %
1551	16.708333	41.425000	0.00	-98.95	-6.77395	-0.08564	-6.85959	1	61.59 %
1552	16.725000	41.425000	0.00	-101.05	-6.91646	-0.09341	-7.00987	1	61.63 %
1553	16.741667	41.425000	0.00	-102.95	-7.04636	-0.10217	-7.14852	1	61.67 %
1554	16.758333	41.425000	0.00	-105.00	-7.18781	-0.11167	-7.29948	1	61.71 %
1555	16.775000	41.425000	0.00	-106.90	-7.31388	-0.12219	-7.43608	1	61.75 %
1556	16.791667	41.425000	0.00	-108.55	-7.43323	-0.13367	-7.56689	1	61.79 %
1557	16.808333	41.425000	0.00	-110.45	-7.55947	-0.14623	-7.70571	1	61.83 %

1558	16.825000	41.425000	0.00	-112.20	-7.67789	-0.16017	-7.83807	1	61.87 %
1559	16.841667	41.425000	0.00	-113.85	-7.79336	-0.17539	-7.96875	1	61.9 %
1560	15.858333	41.408333	9.00	9.00	1.00306	-0.03429	0.96876	0	61.94 %
1561	15.875000	41.408333	7.00	7.00	0.75527	-0.03409	0.72118	0	61.98 %
1562	15.891667	41.408333	5.00	5.00	0.52631	-0.03387	0.49244	0	62.02 %
1563	15.908333	41.408333	3.00	3.00	0.33377	-0.03367	0.30010	0	62.06 %
1564	15.925000	41.408333	1.00	1.00	0.08360	-0.03353	0.05006	0	62.1 %
1565	15.941667	41.408333	3.00	3.00	0.20234	-0.03101	0.17133	0	62.14 %
1566	15.958333	41.408333	0.00	0.00	-0.00170	-0.03172	-0.03341	0	62.18 %
1567	15.975000	41.408333	0.00	0.00	-0.02392	-0.03057	-0.05449	0	62.22 %
1568	15.991667	41.408333	-2.00	-2.00	-0.00181	-0.03075	-0.03256	0	62.26 %
1569	16.008333	41.408333	-2.00	-2.00	-0.00140	-0.02979	-0.03120	0	62.3 %
1570	16.025000	41.408333	-2.00	-2.00	-0.00113	-0.02900	-0.03013	0	62.34 %
1571	16.041667	41.408333	-2.00	-2.00	-0.00103	-0.02817	-0.02920	0	62.38 %
1572	16.058333	41.408333	-2.00	-2.00	-0.00108	-0.02748	-0.02856	0	62.42 %
1573	16.075000	41.408333	0.00	0.00	-0.03580	-0.02591	-0.06171	0	62.46 %
1574	16.091667	41.408333	0.00	-8.00	-0.58103	-0.02537	-0.60640	1	62.5 %
1575	16.108333	41.408333	0.00	-9.10	-0.63299	-0.02496	-0.65795	1	62.54 %
1576	16.125000	41.408333	0.00	-10.40	-0.71983	-0.02454	-0.74437	1	62.58 %
1577	16.141667	41.408333	0.00	-11.65	-0.80801	-0.02430	-0.83231	1	62.62 %
1578	16.158333	41.408333	0.00	-14.25	-0.98929	-0.02396	-1.01325	1	62.66 %
1579	16.175000	41.408333	0.00	-15.55	-1.07471	-0.02383	-1.09854	1	62.7 %
1580	16.191667	41.408333	0.00	-16.65	-1.15377	-0.02352	-1.17730	1	62.74 %
1581	16.208333	41.408333	0.00	-18.05	-1.24747	-0.02338	-1.27085	1	62.78 %
1582	16.225000	41.408333	0.00	-19.10	-1.31821	-0.02311	-1.34133	1	62.82 %
1583	16.241667	41.408333	0.00	-20.15	-1.38992	-0.02300	-1.41291	1	62.86 %
1584	16.258333	41.408333	0.00	-21.15	-1.45668	-0.02280	-1.47949	1	62.9 %
1585	16.275000	41.408333	0.00	-22.20	-1.52770	-0.02270	-1.55040	1	62.94 %
1586	16.291667	41.408333	0.00	-23.45	-1.61855	-0.02264	-1.64119	1	62.98 %
1587	16.308333	41.408333	0.00	-24.65	-1.70350	-0.02259	-1.72609	1	63.02 %
1588	16.325000	41.408333	0.00	-26.05	-1.80236	-0.02270	-1.82506	1	63.06 %
1589	16.341667	41.408333	0.00	-28.15	-1.94494	-0.02288	-1.96782	1	63.1 %
1590	16.358333	41.408333	0.00	-30.80	-2.11497	-0.02323	-2.13820	1	63.13 %
1591	16.375000	41.408333	0.00	-33.65	-2.31310	-0.02362	-2.33672	1	63.17 %
1592	16.391667	41.408333	0.00	-37.45	-2.56926	-0.02419	-2.59345	1	63.21 %
1593	16.408333	41.408333	0.00	-41.35	-2.84418	-0.02485	-2.86904	1	63.25 %
1594	16.425000	41.408333	0.00	-45.20	-3.09756	-0.02566	-3.12322	1	63.29 %
1595	16.441667	41.408333	0.00	-48.40	-3.32015	-0.02668	-3.34684	1	63.33 %
1596	16.458333	41.408333	0.00	-52.05	-3.56971	-0.02785	-3.59756	1	63.37 %
1597	16.475000	41.408333	0.00	-55.95	-3.84163	-0.02918	-3.87081	1	63.41 %

1598	16.491667	41.408333	0.00	-60.20	-4.12270	-0.03076	-4.15346	1	63.45 %
1599	16.508333	41.408333	0.00	-63.20	-4.33197	-0.03251	-4.36447	1	63.49 %
1600	16.525000	41.408333	0.00	-66.80	-4.57997	-0.03456	-4.61453	1	63.53 %
1601	16.541667	41.408333	0.00	-70.40	-4.83622	-0.03684	-4.87306	1	63.57 %
1602	16.558333	41.408333	0.00	-74.05	-5.07589	-0.03950	-5.11540	1	63.61 %
1603	16.575000	41.408333	0.00	-77.20	-5.28517	-0.04238	-5.32756	1	63.65 %
1604	16.591667	41.408333	0.00	-80.10	-5.48417	-0.04573	-5.52990	1	63.69 %
1605	16.608333	41.408333	0.00	-83.25	-5.70442	-0.04938	-5.75380	1	63.73 %
1606	16.625000	41.408333	0.00	-86.85	-5.93562	-0.05349	-5.98911	1	63.77 %
1607	16.641667	41.408333	0.00	-89.05	-6.09831	-0.05799	-6.15629	1	63.81 %
1608	16.658333	41.408333	0.00	-90.90	-6.22823	-0.06293	-6.29116	1	63.85 %
1609	16.675000	41.408333	0.00	-93.10	-6.37913	-0.06845	-6.44759	1	63.89 %
1610	16.691667	41.408333	0.00	-95.65	-6.54566	-0.07444	-6.62009	1	63.93 %
1611	16.708333	41.408333	0.00	-97.70	-6.69012	-0.08121	-6.77133	1	63.97 %
1612	16.725000	41.408333	0.00	-99.70	-6.82656	-0.08849	-6.91504	1	64.01 %
1613	16.741667	41.408333	0.00	-101.65	-6.96322	-0.09673	-7.05995	1	64.05 %
1614	16.758333	41.408333	0.00	-103.90	-7.11020	-0.10557	-7.21576	1	64.09 %
1615	16.775000	41.408333	0.00	-105.70	-7.23729	-0.11549	-7.35278	1	64.13 %
1616	16.791667	41.408333	0.00	-107.55	-7.36482	-0.12630	-7.49112	1	64.17 %
1617	16.808333	41.408333	0.00	-109.60	-7.50075	-0.13812	-7.63887	1	64.21 %
1618	16.825000	41.408333	0.00	-111.30	-7.61732	-0.15124	-7.76855	1	64.25 %
1619	16.841667	41.408333	0.00	-112.85	-7.72328	-0.16555	-7.88883	1	64.29 %
1620	15.858333	41.391667	14.00	14.00	1.54183	-0.03133	1.51050	0	64.33 %
1621	15.875000	41.391667	10.00	10.00	1.03684	-0.03263	1.00421	0	64.37 %
1622	15.891667	41.391667	7.00	7.00	0.72315	-0.03317	0.68998	0	64.4 %
1623	15.908333	41.391667	3.00	3.00	0.32088	-0.03444	0.28644	0	64.44 %
1624	15.925000	41.391667	4.00	4.00	0.39488	-0.03225	0.36263	0	64.48 %
1625	15.941667	41.391667	2.00	2.00	0.16006	-0.03235	0.12770	0	64.52 %
1626	15.958333	41.391667	4.00	4.00	0.38600	-0.02995	0.35604	0	64.56 %
1627	15.975000	41.391667	10.00	10.00	1.04713	-0.02529	1.02184	0	64.6 %
1628	15.991667	41.391667	7.00	7.00	0.76000	-0.02643	0.73357	0	64.64 %
1629	16.008333	41.391667	3.00	3.00	0.19128	-0.02813	0.16316	0	64.68 %
1630	16.025000	41.391667	-1.00	-1.00	-0.00297	-0.02979	-0.03276	0	64.72 %
1631	16.041667	41.391667	-2.00	-2.00	-0.00224	-0.02976	-0.03200	0	64.76 %
1632	16.058333	41.391667	-1.00	-1.00	-0.00166	-0.02870	-0.03036	0	64.8 %
1633	16.075000	41.391667	-1.00	-1.00	-0.00145	-0.02833	-0.02978	0	64.84 %
1634	16.091667	41.391667	-1.00	-1.00	-0.00144	-0.02798	-0.02941	0	64.88 %
1635	16.108333	41.391667	0.00	0.00	-0.00188	-0.02732	-0.02920	0	64.92 %
1636	16.125000	41.391667	0.00	-2.00	-0.16929	-0.02710	-0.19639	1	64.96 %
1637	16.141667	41.391667	0.00	-9.30	-0.65029	-0.02710	-0.67738	1	65.0 %
1638	16.158333	41.391667	0.00	-11.15	-0.77396	-0.02692	-0.80088	1	65.04 %

1639	16.175000	41.391667	0.00	-12.60	-0.88339	-0.02694	-0.91033	1	65.08 %
1640	16.191667	41.391667	0.00	-13.90	-0.96892	-0.02673	-0.99564	1	65.12 %
1641	16.208333	41.391667	0.00	-15.30	-1.05674	-0.02669	-1.08343	1	65.16 %
1642	16.225000	41.391667	0.00	-16.60	-1.15011	-0.02646	-1.17657	1	65.2 %
1643	16.241667	41.391667	0.00	-17.95	-1.24082	-0.02630	-1.26712	1	65.24 %
1644	16.258333	41.391667	0.00	-19.60	-1.35415	-0.02616	-1.38031	1	65.28 %
1645	16.275000	41.391667	0.00	-20.70	-1.42790	-0.02599	-1.45389	1	65.32 %
1646	16.291667	41.391667	0.00	-21.65	-1.49401	-0.02590	-1.51991	1	65.36 %
1647	16.308333	41.391667	0.00	-22.75	-1.57144	-0.02576	-1.59720	1	65.4 %
1648	16.325000	41.391667	0.00	-23.85	-1.64830	-0.02580	-1.67410	1	65.44 %
1649	16.341667	41.391667	0.00	-25.70	-1.77753	-0.02579	-1.80331	1	65.48 %
1650	16.358333	41.391667	0.00	-27.50	-1.89697	-0.02600	-1.92298	1	65.52 %
1651	16.375000	41.391667	0.00	-30.80	-2.11237	-0.02620	-2.13857	1	65.56 %
1652	16.391667	41.391667	0.00	-34.05	-2.33863	-0.02655	-2.36518	1	65.6 %
1653	16.408333	41.391667	0.00	-38.95	-2.66674	-0.02701	-2.69374	1	65.63 %
1654	16.425000	41.391667	0.00	-42.20	-2.89762	-0.02756	-2.92518	1	65.67 %
1655	16.441667	41.391667	0.00	-45.20	-3.10703	-0.02831	-3.13534	1	65.71 %
1656	16.458333	41.391667	0.00	-48.80	-3.35179	-0.02920	-3.38099	1	65.75 %
1657	16.475000	41.391667	0.00	-53.25	-3.65104	-0.03029	-3.68133	1	65.79 %
1658	16.491667	41.391667	0.00	-57.25	-3.92814	-0.03152	-3.95966	1	65.83 %
1659	16.508333	41.391667	0.00	-60.60	-4.15607	-0.03299	-4.18905	1	65.87 %
1660	16.525000	41.391667	0.00	-64.00	-4.38691	-0.03469	-4.42161	1	65.91 %
1661	16.541667	41.391667	0.00	-67.80	-4.64311	-0.03667	-4.67979	1	65.95 %
1662	16.558333	41.391667	0.00	-71.20	-4.88140	-0.03895	-4.92035	1	65.99 %
1663	16.575000	41.391667	0.00	-75.10	-5.14046	-0.04156	-5.18201	1	66.03 %
1664	16.591667	41.391667	0.00	-77.90	-5.34131	-0.04450	-5.38581	1	66.07 %
1665	16.608333	41.391667	0.00	-81.35	-5.57064	-0.04776	-5.61840	1	66.11 %
1666	16.625000	41.391667	0.00	-84.70	-5.79862	-0.05152	-5.85014	1	66.15 %
1667	16.641667	41.391667	0.00	-87.85	-6.01270	-0.05559	-6.06829	1	66.19 %
1668	16.658333	41.391667	0.00	-89.85	-6.15145	-0.06012	-6.21157	1	66.23 %
1669	16.675000	41.391667	0.00	-92.00	-6.29751	-0.06522	-6.36273	1	66.27 %
1670	16.691667	41.391667	0.00	-94.40	-6.46359	-0.07079	-6.53438	1	66.31 %
1671	16.708333	41.391667	0.00	-96.50	-6.61144	-0.07701	-6.68846	1	66.35 %
1672	16.725000	41.391667	0.00	-98.65	-6.75491	-0.08377	-6.83868	1	66.39 %
1673	16.741667	41.391667	0.00	-100.80	-6.90102	-0.09140	-6.99242	1	66.43 %
1674	16.758333	41.391667	0.00	-102.85	-7.03995	-0.09970	-7.13965	1	66.47 %
1675	16.775000	41.391667	0.00	-104.80	-7.17218	-0.10902	-7.28120	1	66.51 %
1676	16.791667	41.391667	0.00	-106.60	-7.30069	-0.11914	-7.41983	1	66.55 %
1677	16.808333	41.391667	0.00	-108.80	-7.44193	-0.13025	-7.57219	1	66.59 %
1678	16.825000	41.391667	0.00	-110.40	-7.55574	-0.14257	-7.69831	1	66.63 %

1679	16.841667	41.391667	0.00	-111.85	-7.65449	-0.15604	-7.81052	1	66.67 %
1680	15.858333	41.375000	27.00	27.00	2.95159	-0.02213	2.92946	0	66.71 %
1681	15.875000	41.375000	26.00	26.00	2.81215	-0.02122	2.79094	0	66.75 %
1682	15.891667	41.375000	16.00	16.00	1.73677	-0.02766	1.70911	0	66.79 %
1683	15.908333	41.375000	14.00	14.00	1.50453	-0.02760	1.47694	0	66.83 %
1684	15.925000	41.375000	14.00	14.00	1.50372	-0.02630	1.47742	0	66.87 %
1685	15.941667	41.375000	11.00	11.00	1.12862	-0.02729	1.10133	0	66.9 %
1686	15.958333	41.375000	14.00	14.00	1.51277	-0.02439	1.48838	0	66.94 %
1687	15.975000	41.375000	19.00	19.00	2.08654	-0.02034	2.06620	0	66.98 %
1688	15.991667	41.375000	12.00	12.00	1.26443	-0.02450	1.23994	0	67.02 %
1689	16.008333	41.375000	12.00	12.00	1.25316	-0.02415	1.22900	0	67.06 %
1690	16.025000	41.375000	2.00	2.00	0.21355	-0.02997	0.18357	0	67.1 %
1691	16.041667	41.375000	2.00	2.00	0.21556	-0.02974	0.18582	0	67.14 %
1692	16.058333	41.375000	-2.00	-2.00	-0.00469	-0.03182	-0.03651	0	67.18 %
1693	16.075000	41.375000	0.00	0.00	-0.00314	-0.03069	-0.03383	0	67.22 %
1694	16.091667	41.375000	0.00	0.00	-0.00259	-0.03058	-0.03316	0	67.26 %
1695	16.108333	41.375000	0.00	0.00	-0.05244	-0.03078	-0.08321	0	67.3 %
1696	16.125000	41.375000	-2.00	-2.00	-0.00263	-0.03183	-0.03446	0	67.34 %
1697	16.141667	41.375000	-2.00	-2.00	-0.00312	-0.03211	-0.03523	0	67.38 %
1698	16.158333	41.375000	0.00	2.00	-0.13616	-0.03109	-0.16725	1	67.42 %
1699	16.175000	41.375000	0.00	-8.50	-0.60221	-0.03133	-0.63354	1	67.46 %
1700	16.191667	41.375000	0.00	-9.10	-0.63370	-0.03121	-0.66492	1	67.5 %
1701	16.208333	41.375000	0.00	-9.85	-0.69276	-0.03130	-0.72406	1	67.54 %
1702	16.225000	41.375000	0.00	-12.10	-0.85347	-0.03116	-0.88463	1	67.58 %
1703	16.241667	41.375000	0.00	-15.00	-1.04247	-0.03099	-1.07346	1	67.62 %
1704	16.258333	41.375000	0.00	-16.50	-1.14784	-0.03087	-1.17871	1	67.66 %
1705	16.275000	41.375000	0.00	-18.25	-1.26293	-0.03063	-1.29356	1	67.7 %
1706	16.291667	41.375000	0.00	-19.60	-1.35925	-0.03053	-1.38978	1	67.74 %
1707	16.308333	41.375000	0.00	-21.05	-1.45188	-0.03022	-1.48211	1	67.78 %
1708	16.325000	41.375000	0.00	-22.10	-1.52323	-0.03016	-1.55339	1	67.82 %
1709	16.341667	41.375000	0.00	-23.25	-1.60418	-0.02992	-1.63409	1	67.86 %
1710	16.358333	41.375000	0.00	-24.45	-1.68173	-0.02994	-1.71167	1	67.9 %
1711	16.375000	41.375000	0.00	-27.60	-1.89375	-0.02985	-1.92360	1	67.94 %
1712	16.391667	41.375000	0.00	-31.10	-2.14181	-0.02996	-2.17177	1	67.98 %
1713	16.408333	41.375000	0.00	-34.85	-2.39728	-0.03008	-2.42736	1	68.02 %
1714	16.425000	41.375000	0.00	-38.85	-2.66721	-0.03037	-2.69758	1	68.06 %
1715	16.441667	41.375000	0.00	-42.05	-2.88799	-0.03080	-2.91880	1	68.1 %
1716	16.458333	41.375000	0.00	-45.30	-3.11907	-0.03132	-3.15038	1	68.13 %
1717	16.475000	41.375000	0.00	-49.40	-3.38817	-0.03209	-3.42026	1	68.17 %
1718	16.491667	41.375000	0.00	-54.15	-3.70999	-0.03297	-3.74296	1	68.21 %
1719	16.508333	41.375000	0.00	-57.40	-3.94125	-0.03409	-3.97534	1	68.25 %

1720	16.525000	41.375000	0.00	-60.90	-4.17905	-0.03541	-4.21446	1	68.29 %
1721	16.541667	41.375000	0.00	-64.20	-4.40886	-0.03707	-4.44593	1	68.33 %
1722	16.558333	41.375000	0.00	-67.95	-4.66605	-0.03893	-4.70498	1	68.37 %
1723	16.575000	41.375000	0.00	-72.25	-4.95191	-0.04113	-4.99303	1	68.41 %
1724	16.591667	41.375000	0.00	-76.10	-5.21174	-0.04367	-5.25541	1	68.45 %
1725	16.608333	41.375000	0.00	-79.20	-5.42508	-0.04659	-5.47167	1	68.49 %
1726	16.625000	41.375000	0.00	-82.20	-5.63438	-0.04991	-5.68428	1	68.53 %
1727	16.641667	41.375000	0.00	-86.05	-5.89118	-0.05359	-5.94477	1	68.57 %
1728	16.658333	41.375000	0.00	-88.50	-6.05997	-0.05770	-6.11767	1	68.61 %
1729	16.675000	41.375000	0.00	-90.60	-6.20955	-0.06235	-6.27190	1	68.65 %
1730	16.691667	41.375000	0.00	-93.50	-6.39748	-0.06741	-6.46489	1	68.69 %
1731	16.708333	41.375000	0.00	-95.90	-6.56171	-0.07320	-6.63491	1	68.73 %
1732	16.725000	41.375000	0.00	-98.00	-6.70809	-0.07945	-6.78753	1	68.77 %
1733	16.741667	41.375000	0.00	-100.05	-6.84403	-0.08652	-6.93055	1	68.81 %
1734	16.758333	41.375000	0.00	-101.90	-6.97438	-0.09427	-7.06864	1	68.85 %
1735	16.775000	41.375000	0.00	-103.80	-7.10708	-0.10294	-7.21002	1	68.89 %
1736	16.791667	41.375000	0.00	-105.85	-7.24401	-0.11242	-7.35642	1	68.93 %
1737	16.808333	41.375000	0.00	-107.80	-7.37399	-0.12283	-7.49683	1	68.97 %
1738	16.825000	41.375000	0.00	-109.40	-7.48845	-0.13441	-7.62285	1	69.01 %
1739	16.841667	41.375000	0.00	-111.10	-7.60078	-0.14712	-7.74790	1	69.05 %
1740	15.858333	41.358333	40.00	40.00	4.40309	-0.01313	4.38996	0	69.09 %
1741	15.875000	41.358333	33.00	33.00	3.63314	-0.01758	3.61556	0	69.13 %
1742	15.891667	41.358333	41.00	41.00	4.47374	-0.00948	4.46426	0	69.17 %
1743	15.908333	41.358333	36.00	36.00	3.89322	-0.01246	3.88076	0	69.21 %
1744	15.925000	41.358333	26.00	26.00	2.86248	-0.01935	2.84312	0	69.25 %
1745	15.941667	41.358333	22.00	22.00	2.39564	-0.02143	2.37421	0	69.29 %
1746	15.958333	41.358333	21.00	21.00	2.27006	-0.02151	2.24855	0	69.33 %
1747	15.975000	41.358333	19.00	19.00	2.11220	-0.02236	2.08984	0	69.37 %
1748	15.991667	41.358333	23.00	23.00	2.36381	-0.01938	2.34443	0	69.4 %
1749	16.008333	41.358333	22.00	22.00	2.31381	-0.02000	2.29381	0	69.44 %
1750	16.025000	41.358333	16.00	16.00	1.61539	-0.02415	1.59124	0	69.48 %
1751	16.041667	41.358333	6.00	6.00	0.61596	-0.03086	0.58510	0	69.52 %
1752	16.058333	41.358333	3.00	3.00	0.32644	-0.03301	0.29343	0	69.56 %
1753	16.075000	41.358333	2.00	2.00	0.19128	-0.03400	0.15728	0	69.6 %
1754	16.091667	41.358333	8.00	8.00	0.78474	-0.03072	0.75402	0	69.64 %
1755	16.108333	41.358333	6.00	6.00	0.65347	-0.03251	0.62096	0	69.68 %
1756	16.125000	41.358333	2.00	2.00	0.21774	-0.03537	0.18236	0	69.72 %
1757	16.141667	41.358333	2.00	2.00	0.17862	-0.03599	0.14263	0	69.76 %
1758	16.158333	41.358333	2.00	2.00	0.22007	-0.03623	0.18384	0	69.8 %
1759	16.175000	41.358333	1.00	1.00	0.10842	-0.03729	0.07113	0	69.84 %

1760	16.191667	41.358333	0.00	0.00	-0.00321	-0.03782	-0.04103	1	69.88 %
1761	16.208333	41.358333	1.00	1.00	0.10827	-0.03746	0.07080	0	69.92 %
1762	16.225000	41.358333	0.00	-4.70	-0.37096	-0.03783	-0.40879	1	69.96 %
1763	16.241667	41.358333	0.00	-9.25	-0.64978	-0.03774	-0.68751	1	70.0 %
1764	16.258333	41.358333	0.00	-10.90	-0.76268	-0.03751	-0.80020	1	70.04 %
1765	16.275000	41.358333	0.00	-12.15	-0.87879	-0.03729	-0.91609	1	70.08 %
1766	16.291667	41.358333	0.00	-14.95	-1.04030	-0.03704	-1.07734	1	70.12 %
1767	16.308333	41.358333	0.00	-16.80	-1.17252	-0.03662	-1.20915	1	70.16 %
1768	16.325000	41.358333	0.00	-19.30	-1.33521	-0.03627	-1.37149	1	70.2 %
1769	16.341667	41.358333	0.00	-20.50	-1.41921	-0.03584	-1.45505	1	70.24 %
1770	16.358333	41.358333	0.00	-21.55	-1.48801	-0.03549	-1.52351	1	70.28 %
1771	16.375000	41.358333	0.00	-24.10	-1.65982	-0.03510	-1.69492	1	70.32 %
1772	16.391667	41.358333	0.00	-27.20	-1.87126	-0.03484	-1.90610	1	70.36 %
1773	16.408333	41.358333	0.00	-30.60	-2.10258	-0.03456	-2.13714	1	70.4 %
1774	16.425000	41.358333	0.00	-33.80	-2.32274	-0.03445	-2.35720	1	70.44 %
1775	16.441667	41.358333	0.00	-37.40	-2.57509	-0.03440	-2.60949	1	70.48 %
1776	16.458333	41.358333	0.00	-41.40	-2.84375	-0.03457	-2.87832	1	70.52 %
1777	16.475000	41.358333	0.00	-44.35	-3.05060	-0.03483	-3.08542	1	70.56 %
1778	16.491667	41.358333	0.00	-48.25	-3.32176	-0.03535	-3.35711	1	70.6 %
1779	16.508333	41.358333	0.00	-53.20	-3.65234	-0.03599	-3.68834	1	70.63 %
1780	16.525000	41.358333	0.00	-57.60	-3.94984	-0.03694	-3.98679	1	70.67 %
1781	16.541667	41.358333	0.00	-61.20	-4.19619	-0.03809	-4.23429	1	70.71 %
1782	16.558333	41.358333	0.00	-64.90	-4.44811	-0.03961	-4.48771	1	70.75 %
1783	16.575000	41.358333	0.00	-69.10	-4.73602	-0.04135	-4.77737	1	70.79 %
1784	16.591667	41.358333	0.00	-73.00	-4.99819	-0.04352	-5.04171	1	70.83 %
1785	16.608333	41.358333	0.00	-76.20	-5.21915	-0.04600	-5.26515	1	70.87 %
1786	16.625000	41.358333	0.00	-79.05	-5.42224	-0.04885	-5.47110	1	70.91 %
1787	16.641667	41.358333	0.00	-82.90	-5.67783	-0.05215	-5.72998	1	70.95 %
1788	16.658333	41.358333	0.00	-86.70	-5.92929	-0.05575	-5.98505	1	70.99 %
1789	16.675000	41.358333	0.00	-89.20	-6.10646	-0.06000	-6.16646	1	71.03 %
1790	16.691667	41.358333	0.00	-92.10	-6.30553	-0.06456	-6.37008	1	71.07 %
1791	16.708333	41.358333	0.00	-95.20	-6.50911	-0.06984	-6.57895	1	71.11 %
1792	16.725000	41.358333	0.00	-97.05	-6.64034	-0.07559	-6.71593	1	71.15 %
1793	16.741667	41.358333	0.00	-98.80	-6.76664	-0.08209	-6.84874	1	71.19 %
1794	16.758333	41.358333	0.00	-100.75	-6.89953	-0.08927	-6.98880	1	71.23 %
1795	16.775000	41.358333	0.00	-102.90	-7.03942	-0.09739	-7.13680	1	71.27 %
1796	16.791667	41.358333	0.00	-104.65	-7.16428	-0.10620	-7.27049	1	71.31 %
1797	16.808333	41.358333	0.00	-106.70	-7.30114	-0.11594	-7.41707	1	71.35 %
1798	16.825000	41.358333	0.00	-108.50	-7.42743	-0.12687	-7.55430	1	71.39 %
1799	16.841667	41.358333	0.00	-110.40	-7.55616	-0.13877	-7.69493	1	71.43 %
1800	15.858333	41.341667	51.00	51.00	5.66099	-0.00611	5.65488	0	71.47 %

1801	15.875000	41.341667	48.00	48.00	5.26107	-0.00737	5.25371	0	71.51 %
1802	15.891667	41.341667	51.00	51.00	5.63560	-0.00344	5.63216	0	71.55 %
1803	15.908333	41.341667	53.00	53.00	5.75262	-0.00081	5.75181	0	71.59 %
1804	15.925000	41.341667	36.00	36.00	3.96051	-0.01434	3.94617	0	71.63 %
1805	15.941667	41.341667	37.00	37.00	3.72847	-0.01281	3.71567	0	71.67 %
1806	15.958333	41.341667	36.00	36.00	3.82787	-0.01322	3.81466	0	71.71 %
1807	15.975000	41.341667	30.00	30.00	3.23048	-0.01766	3.21281	0	71.75 %
1808	15.991667	41.341667	34.00	34.00	3.70759	-0.01473	3.69286	0	71.79 %
1809	16.008333	41.341667	38.00	38.00	4.17520	-0.01211	4.16309	0	71.83 %
1810	16.025000	41.341667	36.00	36.00	3.81265	-0.01416	3.79850	0	71.87 %
1811	16.041667	41.341667	19.00	19.00	1.91284	-0.02708	1.88575	0	71.9 %
1812	16.058333	41.341667	12.00	12.00	1.26841	-0.03279	1.23562	0	71.94 %
1813	16.075000	41.341667	13.00	13.00	1.41520	-0.03301	1.38219	0	71.98 %
1814	16.091667	41.341667	14.00	14.00	1.52659	-0.03324	1.49335	0	72.02 %
1815	16.108333	41.341667	12.00	12.00	1.33449	-0.03567	1.29882	0	72.06 %
1816	16.125000	41.341667	9.00	9.00	0.94136	-0.03857	0.90279	0	72.1 %
1817	16.141667	41.341667	7.00	7.00	0.70156	-0.04096	0.66060	0	72.14 %
1818	16.158333	41.341667	6.00	6.00	0.64262	-0.04214	0.60048	0	72.18 %
1819	16.175000	41.341667	4.00	4.00	0.41406	-0.04415	0.36991	0	72.22 %
1820	16.191667	41.341667	1.00	1.00	0.07809	-0.04617	0.03192	0	72.26 %
1821	16.208333	41.341667	1.00	1.00	0.07439	-0.04637	0.02801	0	72.3 %
1822	16.225000	41.341667	1.00	1.00	0.10073	-0.04632	0.05441	0	72.34 %
1823	16.241667	41.341667	0.00	-1.60	-0.14381	-0.04680	-0.19060	1	72.38 %
1824	16.258333	41.341667	0.00	-6.40	-0.47262	-0.04661	-0.51923	1	72.42 %
1825	16.275000	41.341667	0.00	-8.95	-0.62971	-0.04624	-0.67594	1	72.46 %
1826	16.291667	41.341667	0.00	-9.35	-0.65870	-0.04584	-0.70454	1	72.5 %
1827	16.308333	41.341667	0.00	-10.55	-0.74277	-0.04524	-0.78801	1	72.54 %
1828	16.325000	41.341667	0.00	-13.90	-0.98458	-0.04464	-1.02922	1	72.58 %
1829	16.341667	41.341667	0.00	-16.55	-1.15073	-0.04387	-1.19460	1	72.62 %
1830	16.358333	41.341667	0.00	-17.90	-1.23770	-0.04317	-1.28087	1	72.66 %
1831	16.375000	41.341667	0.00	-19.10	-1.32045	-0.04236	-1.36282	1	72.7 %
1832	16.391667	41.341667	0.00	-20.35	-1.41203	-0.04157	-1.45361	1	72.74 %
1833	16.408333	41.341667	0.00	-23.30	-1.61572	-0.04086	-1.65657	1	72.78 %
1834	16.425000	41.341667	0.00	-27.95	-1.93505	-0.04017	-1.97522	1	72.82 %
1835	16.441667	41.341667	0.00	-32.55	-2.24226	-0.03966	-2.28192	1	72.86 %
1836	16.458333	41.341667	0.00	-36.25	-2.49100	-0.03921	-2.53021	1	72.9 %
1837	16.475000	41.341667	0.00	-40.00	-2.74811	-0.03898	-2.78709	1	72.94 %
1838	16.491667	41.341667	0.00	-43.65	-3.00068	-0.03895	-3.03963	1	72.98 %
1839	16.508333	41.341667	0.00	-48.00	-3.29272	-0.03909	-3.33181	1	73.02 %
1840	16.525000	41.341667	0.00	-52.80	-3.62628	-0.03955	-3.66584	1	73.06 %

1841	16.541667	41.341667	0.00	-56.85	-3.90478	-0.04015	-3.94492	1	73.1 %
1842	16.558333	41.341667	0.00	-60.95	-4.18759	-0.04118	-4.22877	1	73.13 %
1843	16.575000	41.341667	0.00	-65.90	-4.51323	-0.04244	-4.55567	1	73.17 %
1844	16.591667	41.341667	0.00	-69.65	-4.77262	-0.04410	-4.81672	1	73.21 %
1845	16.608333	41.341667	0.00	-73.20	-5.01286	-0.04607	-5.05893	1	73.25 %
1846	16.625000	41.341667	0.00	-76.40	-5.23788	-0.04848	-5.28637	1	73.29 %
1847	16.641667	41.341667	0.00	-79.65	-5.46010	-0.05127	-5.51137	1	73.33 %
1848	16.658333	41.341667	0.00	-83.35	-5.70739	-0.05443	-5.76182	1	73.37 %
1849	16.675000	41.341667	0.00	-86.75	-5.94129	-0.05809	-5.99938	1	73.41 %
1850	16.691667	41.341667	0.00	-90.20	-6.18142	-0.06216	-6.24359	1	73.45 %
1851	16.708333	41.341667	0.00	-93.30	-6.38288	-0.06695	-6.44983	1	73.49 %
1852	16.725000	41.341667	0.00	-95.80	-6.55272	-0.07208	-6.62480	1	73.53 %
1853	16.741667	41.341667	0.00	-97.50	-6.67486	-0.07805	-6.75291	1	73.57 %
1854	16.758333	41.341667	0.00	-99.45	-6.81112	-0.08456	-6.89568	1	73.61 %
1855	16.775000	41.341667	0.00	-101.70	-6.95932	-0.09201	-7.05133	1	73.65 %
1856	16.791667	41.341667	0.00	-103.70	-7.09717	-0.10020	-7.19738	1	73.69 %
1857	16.808333	41.341667	0.00	-105.85	-7.24407	-0.10923	-7.35330	1	73.73 %
1858	16.825000	41.341667	0.00	-107.80	-7.37361	-0.11939	-7.49300	1	73.77 %
1859	16.841667	41.341667	0.00	-110.05	-7.52200	-0.13048	-7.65249	1	73.81 %
1860	15.858333	41.325000	60.00	60.00	6.65737	-0.00058	6.65679	0	73.85 %
1861	15.875000	41.325000	64.00	64.00	7.02401	0.00491	7.02892	0	73.89 %
1862	15.891667	41.325000	56.00	56.00	6.18912	-0.00178	6.18734	0	73.93 %
1863	15.908333	41.325000	45.00	45.00	4.96928	-0.01092	4.95836	0	73.97 %
1864	15.925000	41.325000	49.00	49.00	5.19734	-0.00647	5.19087	0	74.01 %
1865	15.941667	41.325000	63.00	63.00	6.96792	0.00615	6.97407	0	74.05 %
1866	15.958333	41.325000	58.00	58.00	6.45017	0.00165	6.45182	0	74.09 %
1867	15.975000	41.325000	57.00	57.00	6.22907	0.00046	6.22954	0	74.13 %
1868	15.991667	41.325000	48.00	48.00	5.14963	-0.00767	5.14196	0	74.17 %
1869	16.008333	41.325000	54.00	54.00	5.98705	-0.00360	5.98345	0	74.21 %
1870	16.025000	41.325000	54.00	54.00	5.97002	-0.00473	5.96529	0	74.25 %
1871	16.041667	41.325000	44.00	44.00	4.64329	-0.01388	4.62941	0	74.29 %
1872	16.058333	41.325000	37.00	37.00	4.01432	-0.02080	3.99352	0	74.33 %
1873	16.075000	41.325000	23.00	23.00	2.46109	-0.03327	2.42782	0	74.37 %
1874	16.091667	41.325000	25.00	25.00	2.71227	-0.03313	2.67914	0	74.4 %
1875	16.108333	41.325000	25.00	25.00	2.58267	-0.03472	2.54795	0	74.44 %
1876	16.125000	41.325000	14.00	14.00	1.55616	-0.04444	1.51172	0	74.48 %
1877	16.141667	41.325000	11.00	11.00	1.19119	-0.04816	1.14303	0	74.52 %
1878	16.158333	41.325000	8.00	8.00	0.83487	-0.05117	0.78370	0	74.56 %
1879	16.175000	41.325000	7.00	7.00	0.68842	-0.05280	0.63562	0	74.6 %
1880	16.191667	41.325000	14.00	14.00	1.32329	-0.04800	1.27529	0	74.64 %
1881	16.208333	41.325000	5.00	5.00	0.52573	-0.05489	0.47084	0	74.68 %

1882	16.225000	41.325000	6.00	6.00	0.62963	-0.05421	0.57542	0	74.72 %
1883	16.241667	41.325000	16.00	16.00	1.77309	-0.04750	1.72559	0	74.76 %
1884	16.258333	41.325000	15.00	15.00	1.34635	-0.04816	1.29819	0	74.8 %
1885	16.275000	41.325000	1.00	1.00	-0.02803	-0.05683	-0.08486	0	74.84 %
1886	16.291667	41.325000	0.00	-0.56	-0.06035	-0.05692	-0.11726	1	74.88 %
1887	16.308333	41.325000	0.00	-3.95	-0.30161	-0.05601	-0.35761	1	74.92 %
1888	16.325000	41.325000	0.00	-6.35	-0.47056	-0.05515	-0.52570	1	74.96 %
1889	16.341667	41.325000	0.00	-9.65	-0.69076	-0.05400	-0.74477	1	75.0 %
1890	16.358333	41.325000	0.00	-11.20	-0.78594	-0.05294	-0.83888	1	75.04 %
1891	16.375000	41.325000	0.00	-15.50	-1.07637	-0.05161	-1.12798	1	75.08 %
1892	16.391667	41.325000	0.00	-17.15	-1.18522	-0.05037	-1.23559	1	75.12 %
1893	16.408333	41.325000	0.00	-18.35	-1.26915	-0.04913	-1.31827	1	75.16 %
1894	16.425000	41.325000	0.00	-19.80	-1.37355	-0.04787	-1.42142	1	75.2 %
1895	16.441667	41.325000	0.00	-25.15	-1.73087	-0.04675	-1.77762	1	75.24 %
1896	16.458333	41.325000	0.00	-31.00	-2.12844	-0.04566	-2.17409	1	75.28 %
1897	16.475000	41.325000	0.00	-34.20	-2.35187	-0.04478	-2.39665	1	75.32 %
1898	16.491667	41.325000	0.00	-38.40	-2.65018	-0.04405	-2.69423	1	75.36 %
1899	16.508333	41.325000	0.00	-43.05	-2.95786	-0.04358	-3.00144	1	75.4 %
1900	16.525000	41.325000	0.00	-47.05	-3.23492	-0.04337	-3.27828	1	75.44 %
1901	16.541667	41.325000	0.00	-51.45	-3.53043	-0.04337	-3.57380	1	75.48 %
1902	16.558333	41.325000	0.00	-55.70	-3.82848	-0.04377	-3.87226	1	75.52 %
1903	16.575000	41.325000	0.00	-61.25	-4.19463	-0.04444	-4.23907	1	75.56 %
1904	16.591667	41.325000	0.00	-65.20	-4.46594	-0.04548	-4.51141	1	75.6 %
1905	16.608333	41.325000	0.00	-69.05	-4.73288	-0.04691	-4.77979	1	75.63 %
1906	16.625000	41.325000	0.00	-73.20	-5.01050	-0.04875	-5.05925	1	75.67 %
1907	16.641667	41.325000	0.00	-76.70	-5.25411	-0.05101	-5.30512	1	75.71 %
1908	16.658333	41.325000	0.00	-80.05	-5.48163	-0.05362	-5.53525	1	75.75 %
1909	16.675000	41.325000	0.00	-83.85	-5.73890	-0.05676	-5.79566	1	75.79 %
1910	16.691667	41.325000	0.00	-87.80	-6.00299	-0.06028	-6.06327	1	75.83 %
1911	16.708333	41.325000	0.00	-90.75	-6.20825	-0.06444	-6.27269	1	75.87 %
1912	16.725000	41.325000	0.00	-93.60	-6.40270	-0.06900	-6.47170	1	75.91 %
1913	16.741667	41.325000	0.00	-95.90	-6.56551	-0.07435	-6.63986	1	75.95 %
1914	16.758333	41.325000	0.00	-98.25	-6.72385	-0.08028	-6.80413	1	75.99 %
1915	16.775000	41.325000	0.00	-100.40	-6.87266	-0.08705	-6.95971	1	76.03 %
1916	16.791667	41.325000	0.00	-102.60	-7.02074	-0.09457	-7.11531	1	76.07 %
1917	16.808333	41.325000	0.00	-105.05	-7.18575	-0.10286	-7.28860	1	76.11 %
1918	16.825000	41.325000	0.00	-106.65	-7.29751	-0.11230	-7.40981	1	76.15 %
1919	16.841667	41.325000	0.00	-108.65	-7.43244	-0.12263	-7.55507	1	76.19 %
1920	15.858333	41.308333	66.00	66.00	7.24453	0.00224	7.24677	0	76.23 %
1921	15.875000	41.308333	63.00	63.00	7.01412	0.00082	7.01494	0	76.27 %

1922	15.891667	41.308333	67.00	67.00	7.40740	0.00601	7.41341	0	76.31 %
1923	15.908333	41.308333	64.00	64.00	7.11588	0.00392	7.11980	0	76.35 %
1924	15.925000	41.308333	77.00	77.00	8.13641	0.01674	8.15315	0	76.39 %
1925	15.941667	41.308333	82.00	82.00	8.97532	0.02130	8.99662	0	76.43 %
1926	15.958333	41.308333	81.00	81.00	8.88293	0.01953	8.90246	0	76.47 %
1927	15.975000	41.308333	76.00	76.00	8.29955	0.01414	8.31368	0	76.51 %
1928	15.991667	41.308333	71.00	71.00	7.62205	0.00831	7.63036	0	76.55 %
1929	16.008333	41.308333	66.00	66.00	7.10463	0.00254	7.10717	0	76.59 %
1930	16.025000	41.308333	72.00	72.00	7.94006	0.00627	7.94634	0	76.63 %
1931	16.041667	41.308333	61.00	61.00	6.60330	-0.00522	6.59808	0	76.67 %
1932	16.058333	41.308333	44.00	44.00	4.66903	-0.02208	4.64695	0	76.71 %
1933	16.075000	41.308333	51.00	51.00	5.55707	-0.01794	5.53913	0	76.75 %
1934	16.091667	41.308333	46.00	46.00	4.95170	-0.02424	4.92746	0	76.79 %
1935	16.108333	41.308333	23.00	23.00	2.52845	-0.04653	2.48192	0	76.83 %
1936	16.125000	41.308333	17.00	17.00	1.85057	-0.05335	1.79722	0	76.87 %
1937	16.141667	41.308333	14.00	14.00	1.48941	-0.05771	1.43171	0	76.9 %
1938	16.158333	41.308333	11.00	11.00	1.12691	-0.06124	1.06567	0	76.94 %
1939	16.175000	41.308333	30.00	30.00	3.26781	-0.04637	3.22144	0	76.98 %
1940	16.191667	41.308333	22.00	22.00	2.33726	-0.05366	2.28359	0	77.02 %
1941	16.208333	41.308333	25.00	25.00	2.76667	-0.05200	2.71467	0	77.06 %
1942	16.225000	41.308333	19.00	19.00	2.00081	-0.05709	1.94372	0	77.1 %
1943	16.241667	41.308333	24.00	24.00	2.61375	-0.05348	2.56027	0	77.14 %
1944	16.258333	41.308333	22.00	22.00	2.43672	-0.05501	2.38171	0	77.18 %
1945	16.275000	41.308333	28.00	28.00	3.05425	-0.05035	3.00390	0	77.22 %
1946	16.291667	41.308333	16.00	16.00	1.72672	-0.05880	1.66792	0	77.26 %
1947	16.308333	41.308333	15.00	15.00	1.63110	-0.05872	1.57238	0	77.3 %
1948	16.325000	41.308333	7.00	7.00	0.64757	-0.06327	0.58430	0	77.34 %
1949	16.341667	41.308333	1.00	1.00	0.01729	-0.06575	-0.04846	0	77.38 %
1950	16.358333	41.308333	0.00	-2.65	-0.20736	-0.06485	-0.27221	1	77.42 %
1951	16.375000	41.308333	0.00	-8.00	-0.56575	-0.06309	-0.62883	1	77.46 %
1952	16.391667	41.308333	0.00	-10.90	-0.75551	-0.06134	-0.81685	1	77.5 %
1953	16.408333	41.308333	0.00	-13.45	-0.94223	-0.05955	-1.00179	1	77.54 %
1954	16.425000	41.308333	0.00	-16.95	-1.17316	-0.05771	-1.23087	1	77.58 %
1955	16.441667	41.308333	0.00	-18.55	-1.28428	-0.05590	-1.34019	1	77.62 %
1956	16.458333	41.308333	0.00	-22.60	-1.56403	-0.05411	-1.61814	1	77.66 %
1957	16.475000	41.308333	0.00	-28.60	-1.97414	-0.05249	-2.02663	1	77.7 %
1958	16.491667	41.308333	0.00	-33.45	-2.29980	-0.05104	-2.35083	1	77.74 %
1959	16.508333	41.308333	0.00	-37.40	-2.57071	-0.04980	-2.62051	1	77.78 %
1960	16.525000	41.308333	0.00	-41.35	-2.84357	-0.04884	-2.89241	1	77.82 %
1961	16.541667	41.308333	0.00	-45.05	-3.10852	-0.04813	-3.15665	1	77.86 %
1962	16.558333	41.308333	0.00	-50.05	-3.44144	-0.04779	-3.48923	1	77.9 %

1963	16.575000	41.308333	0.00	-53.70	-3.70321	-0.04773	-3.75094	1	77.94 %
1964	16.591667	41.308333	0.00	-60.05	-4.11373	-0.04812	-4.16185	1	77.98 %
1965	16.608333	41.308333	0.00	-64.45	-4.42498	-0.04889	-4.47387	1	78.02 %
1966	16.625000	41.308333	0.00	-68.50	-4.69451	-0.05006	-4.74457	1	78.06 %
1967	16.641667	41.308333	0.00	-72.35	-4.95883	-0.05172	-5.01054	1	78.1 %
1968	16.658333	41.308333	0.00	-75.95	-5.20438	-0.05369	-5.25807	1	78.13 %
1969	16.675000	41.308333	0.00	-79.00	-5.42300	-0.05624	-5.47924	1	78.17 %
1970	16.691667	41.308333	0.00	-83.20	-5.70899	-0.05914	-5.76814	1	78.21 %
1971	16.708333	41.308333	0.00	-87.25	-5.97682	-0.06271	-6.03954	1	78.25 %
1972	16.725000	41.308333	0.00	-90.50	-6.19975	-0.06666	-6.26641	1	78.29 %
1973	16.741667	41.308333	0.00	-93.80	-6.41453	-0.07137	-6.48590	1	78.33 %
1974	16.758333	41.308333	0.00	-96.40	-6.59890	-0.07666	-6.67556	1	78.37 %
1975	16.775000	41.308333	0.00	-98.85	-6.76365	-0.08275	-6.84640	1	78.41 %
1976	16.791667	41.308333	0.00	-101.05	-6.91726	-0.08960	-7.00686	1	78.45 %
1977	16.808333	41.308333	0.00	-103.25	-7.06600	-0.09724	-7.16324	1	78.49 %
1978	16.825000	41.308333	0.00	-105.05	-7.19091	-0.10590	-7.29681	1	78.53 %
1979	16.841667	41.308333	0.00	-107.15	-7.33042	-0.11546	-7.44588	1	78.57 %
1980	15.858333	41.291667	95.00	95.00	10.38063	0.03070	10.41132	0	78.61 %
1981	15.875000	41.291667	87.00	87.00	9.65624	0.02266	9.67890	0	78.65 %
1982	15.891667	41.291667	83.00	83.00	9.13153	0.01898	9.15052	0	78.69 %
1983	15.908333	41.291667	72.00	72.00	7.89107	0.00772	7.89878	0	78.73 %
1984	15.925000	41.291667	78.00	78.00	8.55935	0.01413	8.57347	0	78.77 %
1985	15.941667	41.291667	96.00	96.00	10.59738	0.03223	10.62961	0	78.81 %
1986	15.958333	41.291667	97.00	97.00	10.74118	0.03213	10.77331	0	78.85 %
1987	15.975000	41.291667	97.00	97.00	10.71782	0.03081	10.74864	0	78.89 %
1988	15.991667	41.291667	90.00	90.00	10.00839	0.02201	10.03041	0	78.93 %
1989	16.008333	41.291667	88.00	88.00	9.69828	0.01830	9.71658	0	78.97 %
1990	16.025000	41.291667	75.00	75.00	8.18671	0.00326	8.18997	0	79.01 %
1991	16.041667	41.291667	60.00	60.00	6.37628	-0.01374	6.36253	0	79.05 %
1992	16.058333	41.291667	78.00	78.00	8.41056	0.00174	8.41230	0	79.09 %
1993	16.075000	41.291667	72.00	72.00	7.70085	-0.00664	7.69422	0	79.13 %
1994	16.091667	41.291667	27.00	27.00	2.94339	-0.05361	2.88978	0	79.17 %
1995	16.108333	41.291667	23.00	23.00	2.51850	-0.05995	2.45856	0	79.21 %
1996	16.125000	41.291667	21.00	21.00	2.25494	-0.06386	2.19108	0	79.25 %
1997	16.141667	41.291667	37.00	37.00	3.35493	-0.05023	3.30470	0	79.29 %
1998	16.158333	41.291667	66.00	66.00	7.18795	-0.02368	7.16427	0	79.33 %
1999	16.175000	41.291667	56.00	56.00	6.15365	-0.03518	6.11847	0	79.37 %
2000	16.191667	41.291667	39.00	39.00	4.21546	-0.05225	4.16321	0	79.4 %
2001	16.208333	41.291667	31.00	31.00	3.34440	-0.06076	3.28364	0	79.44 %
2002	16.225000	41.291667	32.00	32.00	3.37216	-0.06031	3.31185	0	79.48 %

2003	16.241667	41.291667	34.00	34.00	3.60456	-0.05895	3.54562	0	79.52 %
2004	16.258333	41.291667	32.00	32.00	3.49178	-0.06060	3.43119	0	79.56 %
2005	16.275000	41.291667	27.00	27.00	2.95109	-0.06463	2.88646	0	79.6 %
2006	16.291667	41.291667	33.00	33.00	3.36229	-0.05916	3.30312	0	79.64 %
2007	16.308333	41.291667	18.00	18.00	1.90062	-0.07051	1.83011	0	79.68 %
2008	16.325000	41.291667	22.00	22.00	2.26318	-0.06625	2.19693	0	79.72 %
2009	16.341667	41.291667	20.00	20.00	2.20052	-0.06639	2.13413	0	79.76 %
2010	16.358333	41.291667	16.00	16.00	1.66760	-0.06780	1.59980	0	79.8 %
2011	16.375000	41.291667	7.00	7.00	0.69114	-0.07227	0.61887	0	79.84 %
2012	16.391667	41.291667	0.00	-2.52	-0.20953	-0.07478	-0.28431	1	79.88 %
2013	16.408333	41.291667	0.00	-6.80	-0.50301	-0.07243	-0.57543	1	79.92 %
2014	16.425000	41.291667	0.00	-11.60	-0.81215	-0.06989	-0.88204	1	79.96 %
2015	16.441667	41.291667	0.00	-15.85	-1.09543	-0.06745	-1.16288	1	80.0 %
2016	16.458333	41.291667	0.00	-18.15	-1.25490	-0.06494	-1.31984	1	80.04 %
2017	16.475000	41.291667	0.00	-21.35	-1.48347	-0.06251	-1.54598	1	80.08 %
2018	16.491667	41.291667	0.00	-26.90	-1.85771	-0.06022	-1.91793	1	80.12 %
2019	16.508333	41.291667	0.00	-31.65	-2.18990	-0.05805	-2.24795	1	80.16 %
2020	16.525000	41.291667	0.00	-35.40	-2.45165	-0.05630	-2.50795	1	80.2 %
2021	16.541667	41.291667	0.00	-40.55	-2.78499	-0.05467	-2.83966	1	80.24 %
2022	16.558333	41.291667	0.00	-44.30	-3.04310	-0.05358	-3.09668	1	80.28 %
2023	16.575000	41.291667	0.00	-48.65	-3.34159	-0.05266	-3.39425	1	80.32 %
2024	16.591667	41.291667	0.00	-52.25	-3.60123	-0.05224	-3.65347	1	80.36 %
2025	16.608333	41.291667	0.00	-58.40	-4.00670	-0.05226	-4.05896	1	80.4 %
2026	16.625000	41.291667	0.00	-62.15	-4.27126	-0.05269	-4.32395	1	80.44 %
2027	16.641667	41.291667	0.00	-66.00	-4.54369	-0.05362	-4.59731	1	80.48 %
2028	16.658333	41.291667	0.00	-71.10	-4.87213	-0.05489	-4.92702	1	80.52 %
2029	16.675000	41.291667	0.00	-75.45	-5.16315	-0.05678	-5.21993	1	80.56 %
2030	16.691667	41.291667	0.00	-78.10	-5.35416	-0.05898	-5.41314	1	80.6 %
2031	16.708333	41.291667	0.00	-82.00	-5.62233	-0.06185	-5.68418	1	80.63 %
2032	16.725000	41.291667	0.00	-86.75	-5.94624	-0.06516	-6.01139	1	80.67 %
2033	16.741667	41.291667	0.00	-90.20	-6.17931	-0.06919	-6.24850	1	80.71 %
2034	16.758333	41.291667	0.00	-93.95	-6.43150	-0.07376	-6.50526	1	80.75 %
2035	16.775000	41.291667	0.00	-96.80	-6.62698	-0.07918	-6.70617	1	80.79 %
2036	16.791667	41.291667	0.00	-99.80	-6.81975	-0.08529	-6.90504	1	80.83 %
2037	16.808333	41.291667	0.00	-101.55	-6.95102	-0.09216	-7.04319	1	80.87 %
2038	16.825000	41.291667	0.00	-103.45	-7.08207	-0.10007	-7.18215	1	80.91 %
2039	16.841667	41.291667	0.00	-105.55	-7.22529	-0.10880	-7.33408	1	80.95 %
2040	15.858333	41.275000	106.00	106.00	11.68867	0.04002	11.72869	0	80.99 %
2041	15.875000	41.275000	108.00	108.00	11.96782	0.04331	12.01113	0	81.03 %
2042	15.891667	41.275000	91.00	91.00	10.06413	0.02351	10.08764	0	81.07 %
2043	15.908333	41.275000	105.00	105.00	11.52969	0.04004	11.56973	0	81.11 %

2044	15.925000	41.275000	93.00	93.00	10.31634	0.02581	10.34215	0	81.15 %
2045	15.941667	41.275000	96.00	96.00	10.63861	0.02837	10.66698	0	81.19 %
2046	15.958333	41.275000	85.00	85.00	9.25347	0.01466	9.26813	0	81.23 %
2047	15.975000	41.275000	88.00	88.00	9.62618	0.01651	9.64269	0	81.27 %
2048	15.991667	41.275000	97.00	97.00	10.52965	0.02447	10.55411	0	81.31 %
2049	16.008333	41.275000	97.00	97.00	10.51650	0.02229	10.53878	0	81.35 %
2050	16.025000	41.275000	90.00	90.00	9.88493	0.01194	9.89687	0	81.39 %
2051	16.041667	41.275000	104.00	104.00	11.42567	0.02485	11.45052	0	81.43 %
2052	16.058333	41.275000	51.00	51.00	5.55921	-0.03684	5.52237	0	81.47 %
2053	16.075000	41.275000	31.00	31.00	3.30050	-0.06188	3.23863	0	81.51 %
2054	16.091667	41.275000	37.00	37.00	3.94757	-0.05801	3.88956	0	81.55 %
2055	16.108333	41.275000	92.00	92.00	9.88386	0.00003	9.88389	0	81.59 %
2056	16.125000	41.275000	77.00	77.00	8.16892	-0.01911	8.14981	0	81.63 %
2057	16.141667	41.275000	82.00	82.00	9.02751	-0.01629	9.01122	0	81.67 %
2058	16.158333	41.275000	63.00	63.00	6.95599	-0.03900	6.91699	0	81.71 %
2059	16.175000	41.275000	55.00	55.00	6.09636	-0.04961	6.04674	0	81.75 %
2060	16.191667	41.275000	44.00	44.00	4.77244	-0.06252	4.70992	0	81.79 %
2061	16.208333	41.275000	52.00	52.00	5.37470	-0.05549	5.31921	0	81.83 %
2062	16.225000	41.275000	64.00	64.00	6.82084	-0.04372	6.77712	0	81.87 %
2063	16.241667	41.275000	60.00	60.00	6.25730	-0.04855	6.20876	0	81.9 %
2064	16.258333	41.275000	62.00	62.00	6.73144	-0.04666	6.68477	0	81.94 %
2065	16.275000	41.275000	51.00	51.00	5.30966	-0.05745	5.25220	0	81.98 %
2066	16.291667	41.275000	55.00	55.00	6.03465	-0.05326	5.98139	0	82.02 %
2067	16.308333	41.275000	52.00	52.00	5.42549	-0.05550	5.37000	0	82.06 %
2068	16.325000	41.275000	46.00	46.00	4.87805	-0.06015	4.81790	0	82.1 %
2069	16.341667	41.275000	28.00	28.00	2.80687	-0.07459	2.73229	0	82.14 %
2070	16.358333	41.275000	31.00	31.00	3.38289	-0.07025	3.31264	0	82.18 %
2071	16.375000	41.275000	37.00	37.00	3.94941	-0.06341	3.88600	0	82.22 %
2072	16.391667	41.275000	21.00	21.00	2.24185	-0.07408	2.16776	0	82.26 %
2073	16.408333	41.275000	17.00	17.00	1.77080	-0.07478	1.69602	0	82.3 %
2074	16.425000	41.275000	12.00	12.00	1.26683	-0.07569	1.19114	0	82.34 %
2075	16.441667	41.275000	0.00	-5.90	-0.44927	-0.08111	-0.53038	1	82.38 %
2076	16.458333	41.275000	0.00	-12.20	-0.86660	-0.07779	-0.94440	1	82.42 %
2077	16.475000	41.275000	0.00	-17.20	-1.19272	-0.07461	-1.26733	1	82.46 %
2078	16.491667	41.275000	0.00	-19.90	-1.38134	-0.07139	-1.45272	1	82.5 %
2079	16.508333	41.275000	0.00	-24.40	-1.68528	-0.06835	-1.75363	1	82.54 %
2080	16.525000	41.275000	0.00	-29.40	-2.03550	-0.06560	-2.10110	1	82.58 %
2081	16.541667	41.275000	0.00	-34.05	-2.34376	-0.06309	-2.40685	1	82.62 %
2082	16.558333	41.275000	0.00	-37.75	-2.60148	-0.06105	-2.66253	1	82.66 %
2083	16.575000	41.275000	0.00	-41.95	-2.89093	-0.05925	-2.95018	1	82.7 %

2084	16.591667	41.275000	0.00	-46.35	-3.19870	-0.05797	-3.25667	1	82.74 %
2085	16.608333	41.275000	0.00	-51.25	-3.51193	-0.05710	-3.56903	1	82.78 %
2086	16.625000	41.275000	0.00	-54.95	-3.77763	-0.05670	-3.83433	1	82.82 %
2087	16.641667	41.275000	0.00	-59.15	-4.06593	-0.05679	-4.12272	1	82.86 %
2088	16.658333	41.275000	0.00	-63.40	-4.35360	-0.05728	-4.41088	1	82.9 %
2089	16.675000	41.275000	0.00	-67.35	-4.62788	-0.05840	-4.68628	1	82.94 %
2090	16.691667	41.275000	0.00	-72.20	-4.95752	-0.05983	-5.01734	1	82.98 %
2091	16.708333	41.275000	0.00	-76.25	-5.24653	-0.06199	-5.30851	1	83.02 %
2092	16.725000	41.275000	0.00	-82.60	-5.65298	-0.06452	-5.71750	1	83.06 %
2093	16.741667	41.275000	0.00	-86.85	-5.94030	-0.06779	-6.00809	1	83.1 %
2094	16.758333	41.275000	0.00	-90.15	-6.17004	-0.07164	-6.24168	1	83.13 %
2095	16.775000	41.275000	0.00	-93.75	-6.42346	-0.07627	-6.49973	1	83.17 %
2096	16.791667	41.275000	0.00	-97.00	-6.63300	-0.08163	-6.71462	1	83.21 %
2097	16.808333	41.275000	0.00	-99.25	-6.79421	-0.08770	-6.88191	1	83.25 %
2098	16.825000	41.275000	0.00	-101.40	-6.94665	-0.09475	-7.04140	1	83.29 %
2099	16.841667	41.275000	0.00	-103.90	-7.11197	-0.10264	-7.21461	1	83.33 %
2100	15.858333	41.258333	128.00	128.00	14.13509	0.06494	14.20003	0	83.37 %
2101	15.875000	41.258333	115.00	115.00	12.72893	0.04859	12.77752	0	83.41 %
2102	15.891667	41.258333	127.00	127.00	14.04970	0.06412	14.11382	0	83.45 %
2103	15.908333	41.258333	121.00	121.00	13.44485	0.05622	13.50106	0	83.49 %
2104	15.925000	41.258333	112.00	112.00	12.40265	0.04408	12.44673	0	83.53 %
2105	15.941667	41.258333	106.00	106.00	11.71693	0.03553	11.75246	0	83.57 %
2106	15.958333	41.258333	108.00	108.00	11.93432	0.03617	11.97049	0	83.61 %
2107	15.975000	41.258333	111.00	111.00	12.09919	0.03796	12.13715	0	83.65 %
2108	15.991667	41.258333	106.00	106.00	11.41911	0.02921	11.44833	0	83.69 %
2109	16.008333	41.258333	80.00	80.00	8.67247	-0.00557	8.66690	0	83.73 %
2110	16.025000	41.258333	78.00	78.00	8.37937	-0.01126	8.36811	0	83.77 %
2111	16.041667	41.258333	50.00	50.00	5.44855	-0.04928	5.39927	0	83.81 %
2112	16.058333	41.258333	39.00	39.00	4.26616	-0.06646	4.19969	0	83.85 %
2113	16.075000	41.258333	57.00	57.00	6.12450	-0.04785	6.07665	0	83.89 %
2114	16.091667	41.258333	103.00	103.00	11.01301	0.00572	11.01873	0	83.93 %
2115	16.108333	41.258333	105.00	105.00	11.25674	0.00452	11.26127	0	83.97 %
2116	16.125000	41.258333	106.00	106.00	11.60899	0.00278	11.61177	0	84.01 %
2117	16.141667	41.258333	102.00	102.00	10.96040	-0.00549	10.95492	0	84.05 %
2118	16.158333	41.258333	96.00	96.00	10.17061	-0.01503	10.15558	0	84.09 %
2119	16.175000	41.258333	78.00	78.00	8.41081	-0.03945	8.37137	0	84.13 %
2120	16.191667	41.258333	71.00	71.00	7.61501	-0.04916	7.56584	0	84.17 %
2121	16.208333	41.258333	92.00	92.00	10.01398	-0.02593	9.98804	0	84.21 %
2122	16.225000	41.258333	103.00	103.00	11.28418	-0.01405	11.27013	0	84.25 %
2123	16.241667	41.258333	77.00	77.00	8.09454	-0.04523	8.04930	0	84.29 %
2124	16.258333	41.258333	92.00	92.00	9.71003	-0.02826	9.68177	0	84.33 %

2125	16.275000	41.258333	97.00	97.00	10.52261	-0.02283	10.49978	0	84.37 %
2126	16.291667	41.258333	108.00	108.00	11.88401	-0.01117	11.87283	0	84.4 %
2127	16.308333	41.258333	88.00	88.00	9.72294	-0.03257	9.69037	0	84.44 %
2128	16.325000	41.258333	76.00	76.00	8.37278	-0.04468	8.32810	0	84.48 %
2129	16.341667	41.258333	64.00	64.00	6.84327	-0.05561	6.78766	0	84.52 %
2130	16.358333	41.258333	56.00	56.00	5.97889	-0.06201	5.91689	0	84.56 %
2131	16.375000	41.258333	52.00	52.00	5.72946	-0.06382	5.66564	0	84.6 %
2132	16.391667	41.258333	42.00	42.00	4.33655	-0.07088	4.26568	0	84.64 %
2133	16.408333	41.258333	38.00	38.00	4.07101	-0.07199	3.99902	0	84.68 %
2134	16.425000	41.258333	29.00	29.00	3.05598	-0.07680	2.97918	0	84.72 %
2135	16.441667	41.258333	18.00	18.00	1.76449	-0.08273	1.68177	0	84.76 %
2136	16.458333	41.258333	11.00	11.00	1.00038	-0.08460	0.91578	0	84.8 %
2137	16.475000	41.258333	0.00	-9.30	-0.66138	-0.08888	-0.75027	1	84.84 %
2138	16.491667	41.258333	0.00	-12.60	-0.90777	-0.08474	-0.99251	1	84.88 %
2139	16.508333	41.258333	0.00	-16.85	-1.18779	-0.08074	-1.26854	1	84.92 %
2140	16.525000	41.258333	0.00	-20.75	-1.45336	-0.07709	-1.53044	1	84.96 %
2141	16.541667	41.258333	0.00	-25.95	-1.80451	-0.07359	-1.87811	1	85.0 %
2142	16.558333	41.258333	0.00	-31.25	-2.15463	-0.07057	-2.22519	1	85.04 %
2143	16.575000	41.258333	0.00	-35.55	-2.45514	-0.06780	-2.52294	1	85.08 %
2144	16.591667	41.258333	0.00	-40.10	-2.75849	-0.06557	-2.82406	1	85.12 %
2145	16.608333	41.258333	0.00	-44.50	-3.05806	-0.06376	-3.12182	1	85.16 %
2146	16.625000	41.258333	0.00	-48.05	-3.30629	-0.06240	-3.36869	1	85.2 %
2147	16.641667	41.258333	0.00	-52.20	-3.59764	-0.06160	-3.65924	1	85.24 %
2148	16.658333	41.258333	0.00	-56.35	-3.86961	-0.06119	-3.93080	1	85.28 %
2149	16.675000	41.258333	0.00	-60.35	-4.14645	-0.06141	-4.20786	1	85.32 %
2150	16.691667	41.258333	0.00	-64.80	-4.45183	-0.06203	-4.51386	1	85.36 %
2151	16.708333	41.258333	0.00	-70.75	-4.84494	-0.06335	-4.90829	1	85.4 %
2152	16.725000	41.258333	0.00	-76.80	-5.25708	-0.06506	-5.32214	1	85.44 %
2153	16.741667	41.258333	0.00	-81.40	-5.58087	-0.06751	-5.64838	1	85.48 %
2154	16.758333	41.258333	0.00	-86.20	-5.90509	-0.07057	-5.97566	1	85.52 %
2155	16.775000	41.258333	0.00	-89.40	-6.12736	-0.07438	-6.20174	1	85.56 %
2156	16.791667	41.258333	0.00	-93.70	-6.41034	-0.07893	-6.48927	1	85.6 %
2157	16.808333	41.258333	0.00	-97.00	-6.63015	-0.08417	-6.71433	1	85.63 %
2158	16.825000	41.258333	0.00	-99.25	-6.80018	-0.09039	-6.89057	1	85.67 %
2159	16.841667	41.258333	0.00	-102.10	-6.98267	-0.09737	-7.08004	1	85.71 %
2160	15.858333	41.241667	150.00	150.00	16.54610	0.09214	16.63824	0	85.75 %
2161	15.875000	41.241667	145.00	145.00	16.01017	0.08533	16.09550	0	85.79 %
2162	15.891667	41.241667	149.00	149.00	16.47108	0.09071	16.56180	0	85.83 %
2163	15.908333	41.241667	133.00	133.00	14.72161	0.06821	14.78982	0	85.87 %
2164	15.925000	41.241667	122.00	122.00	13.48952	0.05216	13.54168	0	85.91 %

2165	15.941667	41.241667	119.00	119.00	13.00614	0.04680	13.05294	0	85.95 %
2166	15.958333	41.241667	107.00	107.00	11.81989	0.02815	11.84805	0	85.99 %
2167	15.975000	41.241667	105.00	105.00	11.55142	0.02318	11.57460	0	86.03 %
2168	15.991667	41.241667	99.00	99.00	10.62114	0.01200	10.63313	0	86.07 %
2169	16.008333	41.241667	64.00	64.00	7.04360	-0.03904	7.00456	0	86.11 %
2170	16.025000	41.241667	48.00	48.00	5.21365	-0.06486	5.14879	0	86.15 %
2171	16.041667	41.241667	45.00	45.00	4.93279	-0.07307	4.85973	0	86.19 %
2172	16.058333	41.241667	51.00	51.00	5.55607	-0.06930	5.48677	0	86.23 %
2173	16.075000	41.241667	119.00	119.00	12.76426	0.01980	12.78406	0	86.27 %
2174	16.091667	41.241667	135.00	135.00	14.52338	0.03747	14.56085	0	86.31 %
2175	16.108333	41.241667	141.00	141.00	15.30476	0.04133	15.34609	0	86.35 %
2176	16.125000	41.241667	141.00	141.00	15.47404	0.03765	15.51169	0	86.39 %
2177	16.141667	41.241667	116.00	116.00	12.84109	-0.00049	12.84060	0	86.43 %
2178	16.158333	41.241667	131.00	131.00	14.18527	0.01741	14.20269	0	86.47 %
2179	16.175000	41.241667	131.00	131.00	14.33190	0.01432	14.34622	0	86.51 %
2180	16.191667	41.241667	124.00	124.00	13.62034	0.00327	13.62361	0	86.55 %
2181	16.208333	41.241667	122.00	122.00	13.43431	-0.00162	13.43269	0	86.59 %
2182	16.225000	41.241667	116.00	116.00	12.59123	-0.01065	12.58058	0	86.63 %
2183	16.241667	41.241667	122.00	122.00	13.24466	-0.00363	13.24103	0	86.67 %
2184	16.258333	41.241667	95.00	95.00	10.43941	-0.03895	10.40046	0	86.71 %
2185	16.275000	41.241667	117.00	117.00	12.50921	-0.01081	12.49840	0	86.75 %
2186	16.291667	41.241667	141.00	141.00	15.54001	0.01877	15.55878	0	86.79 %
2187	16.308333	41.241667	133.00	133.00	14.55767	0.00858	14.56625	0	86.83 %
2188	16.325000	41.241667	119.00	119.00	12.91489	-0.00823	12.90666	0	86.87 %
2189	16.341667	41.241667	104.00	104.00	11.35875	-0.02507	11.33368	0	86.9 %
2190	16.358333	41.241667	93.00	93.00	9.76502	-0.03640	9.72861	0	86.94 %
2191	16.375000	41.241667	78.00	78.00	8.37204	-0.05115	8.32090	0	86.98 %
2192	16.391667	41.241667	69.00	69.00	7.57210	-0.05857	7.51353	0	87.02 %
2193	16.408333	41.241667	68.00	68.00	7.48790	-0.05723	7.43067	0	87.06 %
2194	16.425000	41.241667	63.00	63.00	6.91533	-0.05964	6.85569	0	87.1 %
2195	16.441667	41.241667	49.00	49.00	5.40486	-0.07015	5.33472	0	87.14 %
2196	16.458333	41.241667	33.00	33.00	3.34425	-0.08127	3.26298	0	87.18 %
2197	16.475000	41.241667	34.00	34.00	3.75379	-0.07674	3.67706	0	87.22 %
2198	16.491667	41.241667	30.00	30.00	3.28044	-0.07634	3.20410	0	87.26 %
2199	16.508333	41.241667	18.00	18.00	1.63098	-0.08175	1.54923	0	87.3 %
2200	16.525000	41.241667	5.00	5.00	0.33234	-0.08715	0.24519	0	87.34 %
2201	16.541667	41.241667	0.00	-16.85	-1.17453	-0.08617	-1.26070	1	87.38 %
2202	16.558333	41.241667	0.00	-20.80	-1.45203	-0.08213	-1.53417	1	87.42 %
2203	16.575000	41.241667	0.00	-26.15	-1.80985	-0.07834	-1.88820	1	87.46 %
2204	16.591667	41.241667	0.00	-30.30	-2.10520	-0.07506	-2.18026	1	87.5 %
2205	16.608333	41.241667	0.00	-35.65	-2.46141	-0.07224	-2.53364	1	87.54 %

2206	16.625000	41.241667	0.00	-40.55	-2.79719	-0.06984	-2.86704	1	87.58 %
2207	16.641667	41.241667	0.00	-45.20	-3.11011	-0.06812	-3.17823	1	87.62 %
2208	16.658333	41.241667	0.00	-49.00	-3.37131	-0.06673	-3.43804	1	87.66 %
2209	16.675000	41.241667	0.00	-52.60	-3.61878	-0.06613	-3.68490	1	87.7 %
2210	16.691667	41.241667	0.00	-57.00	-3.93176	-0.06582	-3.99758	1	87.74 %
2211	16.708333	41.241667	0.00	-62.35	-4.29213	-0.06627	-4.35840	1	87.78 %
2212	16.725000	41.241667	0.00	-68.10	-4.68381	-0.06713	-4.75094	1	87.82 %
2213	16.741667	41.241667	0.00	-73.70	-5.05787	-0.06873	-5.12660	1	87.86 %
2214	16.758333	41.241667	0.00	-79.00	-5.41395	-0.07095	-5.48490	1	87.9 %
2215	16.775000	41.241667	0.00	-83.80	-5.73585	-0.07394	-5.80979	1	87.94 %
2216	16.791667	41.241667	0.00	-87.40	-5.98956	-0.07766	-6.06723	1	87.98 %
2217	16.808333	41.241667	0.00	-91.80	-6.29250	-0.08203	-6.37453	1	88.02 %
2218	16.825000	41.241667	0.00	-95.75	-6.55347	-0.08735	-6.64082	1	88.06 %
2219	16.841667	41.241667	0.00	-98.75	-6.76330	-0.09342	-6.85673	1	88.1 %
2220	15.858333	41.225000	167.00	167.00	18.47594	0.11457	18.59051	0	88.13 %
2221	15.875000	41.225000	158.00	158.00	17.40418	0.10110	17.50527	0	88.17 %
2222	15.891667	41.225000	157.00	157.00	17.16359	0.09953	17.26312	0	88.21 %
2223	15.908333	41.225000	152.00	152.00	16.47844	0.09154	16.56998	0	88.25 %
2224	15.925000	41.225000	144.00	144.00	15.61159	0.07858	15.69016	0	88.29 %
2225	15.941667	41.225000	114.00	114.00	12.32953	0.03203	12.36156	0	88.33 %
2226	15.958333	41.225000	84.00	84.00	9.28781	-0.01601	9.27180	0	88.37 %
2227	15.975000	41.225000	72.00	72.00	7.92095	-0.03679	7.88416	0	88.41 %
2228	15.991667	41.225000	63.00	63.00	6.94792	-0.05369	6.89424	0	88.45 %
2229	16.008333	41.225000	55.00	55.00	6.06888	-0.06907	5.99980	0	88.49 %
2230	16.025000	41.225000	53.00	53.00	5.83403	-0.07640	5.75763	0	88.53 %
2231	16.041667	41.225000	61.00	61.00	6.70783	-0.06923	6.63860	0	88.57 %
2232	16.058333	41.225000	115.00	115.00	11.94652	0.00736	11.95387	0	88.61 %
2233	16.075000	41.225000	133.00	133.00	14.51694	0.02923	14.54618	0	88.65 %
2234	16.091667	41.225000	137.00	137.00	13.82015	0.03000	13.85014	0	88.69 %
2235	16.108333	41.225000	160.00	160.00	17.45729	0.05967	17.51697	0	88.73 %
2236	16.125000	41.225000	157.00	157.00	17.27030	0.05080	17.32110	0	88.77 %
2237	16.141667	41.225000	142.00	142.00	15.60932	0.02351	15.63283	0	88.81 %
2238	16.158333	41.225000	162.00	162.00	17.61810	0.05096	17.66906	0	88.85 %
2239	16.175000	41.225000	142.00	142.00	15.56109	0.01742	15.57852	0	88.89 %
2240	16.191667	41.225000	162.00	162.00	17.80170	0.04606	17.84777	0	88.93 %
2241	16.208333	41.225000	145.00	145.00	15.72127	0.01827	15.73954	0	88.97 %
2242	16.225000	41.225000	139.00	139.00	15.37365	0.00834	15.38199	0	89.01 %
2243	16.241667	41.225000	154.00	154.00	17.00593	0.02954	17.03548	0	89.05 %
2244	16.258333	41.225000	152.00	152.00	16.81252	0.02621	16.83873	0	89.09 %
2245	16.275000	41.225000	154.00	154.00	16.94318	0.02858	16.97176	0	89.13 %

2246	16.291667	41.225000	142.00	142.00	15.55663	0.01140	15.56803	0	89.17 %
2247	16.308333	41.225000	162.00	162.00	17.79455	0.03887	17.83341	0	89.21 %
2248	16.325000	41.225000	148.00	148.00	16.24973	0.01965	16.26937	0	89.25 %
2249	16.341667	41.225000	139.00	139.00	15.22137	0.00809	15.22946	0	89.29 %
2250	16.358333	41.225000	138.00	138.00	14.76422	0.00725	14.77147	0	89.33 %
2251	16.375000	41.225000	115.00	115.00	12.68741	-0.02032	12.66708	0	89.37 %
2252	16.391667	41.225000	94.00	94.00	10.37761	-0.04377	10.33384	0	89.4 %
2253	16.408333	41.225000	88.00	88.00	9.65839	-0.04828	9.61012	0	89.44 %
2254	16.425000	41.225000	80.00	80.00	8.79063	-0.05453	8.73610	0	89.48 %
2255	16.441667	41.225000	67.00	67.00	7.32012	-0.06563	7.25449	0	89.52 %
2256	16.458333	41.225000	60.00	60.00	6.45954	-0.06940	6.39015	0	89.56 %
2257	16.475000	41.225000	48.00	48.00	4.91225	-0.07768	4.83456	0	89.6 %
2258	16.491667	41.225000	42.00	42.00	4.62070	-0.07918	4.54152	0	89.64 %
2259	16.508333	41.225000	32.00	32.00	3.41218	-0.08387	3.32832	0	89.68 %
2260	16.525000	41.225000	23.00	23.00	2.45640	-0.08715	2.36925	0	89.72 %
2261	16.541667	41.225000	17.00	17.00	1.69347	-0.08739	1.60608	0	89.76 %
2262	16.558333	41.225000	2.00	2.00	0.11254	-0.09423	0.01831	0	89.8 %
2263	16.575000	41.225000	0.00	-17.20	-1.21398	-0.09075	-1.30473	1	89.84 %
2264	16.591667	41.225000	0.00	-21.60	-1.50714	-0.08639	-1.59352	1	89.88 %
2265	16.608333	41.225000	0.00	-26.05	-1.81205	-0.08246	-1.89451	1	89.92 %
2266	16.625000	41.225000	0.00	-30.00	-2.08468	-0.07904	-2.16372	1	89.96 %
2267	16.641667	41.225000	0.00	-34.05	-2.37095	-0.07629	-2.44724	1	90.0 %
2268	16.658333	41.225000	0.00	-39.35	-2.73689	-0.07392	-2.81081	1	90.04 %
2269	16.675000	41.225000	0.00	-44.80	-3.10391	-0.07235	-3.17626	1	90.08 %
2270	16.691667	41.225000	0.00	-50.75	-3.47831	-0.07107	-3.54938	1	90.12 %
2271	16.708333	41.225000	0.00	-54.80	-3.76340	-0.07063	-3.83403	1	90.16 %
2272	16.725000	41.225000	0.00	-59.10	-4.06485	-0.07058	-4.13544	1	90.2 %
2273	16.741667	41.225000	0.00	-64.05	-4.41476	-0.07132	-4.48608	1	90.24 %
2274	16.758333	41.225000	0.00	-70.15	-4.82102	-0.07263	-4.89365	1	90.28 %
2275	16.775000	41.225000	0.00	-74.90	-5.14462	-0.07471	-5.21933	1	90.32 %
2276	16.791667	41.225000	0.00	-79.55	-5.46943	-0.07756	-5.54700	1	90.36 %
2277	16.808333	41.225000	0.00	-85.75	-5.85876	-0.08100	-5.93976	1	90.4 %
2278	16.825000	41.225000	0.00	-89.70	-6.14084	-0.08543	-6.22627	1	90.44 %
2279	16.841667	41.225000	0.00	-94.30	-6.44723	-0.09055	-6.53777	1	90.48 %
2280	15.858333	41.208333	165.00	165.00	18.27712	0.10894	18.38606	0	90.52 %
2281	15.875000	41.208333	168.00	168.00	18.23589	0.11453	18.35043	0	90.56 %
2282	15.891667	41.208333	164.00	164.00	17.89627	0.10796	18.00423	0	90.6 %
2283	15.908333	41.208333	170.00	170.00	18.70133	0.11745	18.81878	0	90.63 %
2284	15.925000	41.208333	142.00	142.00	15.62865	0.07025	15.69891	0	90.67 %
2285	15.941667	41.208333	116.00	116.00	12.45460	0.02543	12.48004	0	90.71 %
2286	15.958333	41.208333	103.00	103.00	11.27362	0.00065	11.27427	0	90.75 %

2287	15.975000	41.208333	69.00	69.00	7.58149	-0.05899	7.52250	0	90.79 %
2288	15.991667	41.208333	62.00	62.00	6.85094	-0.07414	6.77679	0	90.83 %
2289	16.008333	41.208333	62.00	62.00	6.72915	-0.07744	6.65172	0	90.87 %
2290	16.025000	41.208333	76.00	76.00	8.37847	-0.05868	8.31979	0	90.91 %
2291	16.041667	41.208333	92.00	92.00	9.93519	-0.03746	9.89773	0	90.95 %
2292	16.058333	41.208333	121.00	121.00	12.93310	0.00469	12.93779	0	90.99 %
2293	16.075000	41.208333	188.00	188.00	20.39036	0.10993	20.50029	0	91.03 %
2294	16.091667	41.208333	162.00	162.00	17.45318	0.06056	17.51374	0	91.07 %
2295	16.108333	41.208333	186.00	186.00	20.48604	0.09444	20.58047	0	91.11 %
2296	16.125000	41.208333	174.00	174.00	18.98970	0.06958	19.05928	0	91.15 %
2297	16.141667	41.208333	184.00	184.00	20.32601	0.08126	20.40727	0	91.19 %
2298	16.158333	41.208333	183.00	183.00	20.08345	0.07643	20.15988	0	91.23 %
2299	16.175000	41.208333	175.00	175.00	19.24288	0.05923	19.30211	0	91.27 %
2300	16.191667	41.208333	187.00	187.00	20.67942	0.07791	20.75733	0	91.31 %
2301	16.208333	41.208333	179.00	179.00	19.70363	0.06211	19.76575	0	91.35 %
2302	16.225000	41.208333	178.00	178.00	19.61206	0.05942	19.67148	0	91.39 %
2303	16.241667	41.208333	178.00	178.00	19.59263	0.05820	19.65083	0	91.43 %
2304	16.258333	41.208333	171.00	171.00	18.78748	0.04643	18.83391	0	91.47 %
2305	16.275000	41.208333	163.00	163.00	17.78936	0.03338	17.82274	0	91.51 %
2306	16.291667	41.208333	169.00	169.00	18.56155	0.04278	18.60433	0	91.55 %
2307	16.308333	41.208333	173.00	173.00	19.14903	0.04907	19.19810	0	91.59 %
2308	16.325000	41.208333	175.00	175.00	19.27461	0.05198	19.32659	0	91.63 %
2309	16.341667	41.208333	176.00	176.00	19.42831	0.05358	19.48190	0	91.67 %
2310	16.358333	41.208333	171.00	171.00	18.84264	0.04633	18.88897	0	91.71 %
2311	16.375000	41.208333	148.00	148.00	16.14219	0.01493	16.15711	0	91.75 %
2312	16.391667	41.208333	132.00	132.00	14.50444	-0.00536	14.49908	0	91.79 %
2313	16.408333	41.208333	114.00	114.00	12.51320	-0.02687	12.48633	0	91.83 %
2314	16.425000	41.208333	107.00	107.00	11.71143	-0.03304	11.67840	0	91.87 %
2315	16.441667	41.208333	93.00	93.00	10.22642	-0.04723	10.17919	0	91.9 %
2316	16.458333	41.208333	85.00	85.00	9.36626	-0.05327	9.31299	0	91.94 %
2317	16.475000	41.208333	78.00	78.00	8.60775	-0.05772	8.55003	0	91.98 %
2318	16.491667	41.208333	64.00	64.00	7.01689	-0.06888	6.94801	0	92.02 %
2319	16.508333	41.208333	52.00	52.00	5.72330	-0.07686	5.64644	0	92.06 %
2320	16.525000	41.208333	46.00	46.00	4.98553	-0.07833	4.90721	0	92.1 %
2321	16.541667	41.208333	39.00	39.00	4.25261	-0.08030	4.17231	0	92.14 %
2322	16.558333	41.208333	22.00	22.00	2.39467	-0.09074	2.30394	0	92.18 %
2323	16.575000	41.208333	8.00	8.00	0.68629	-0.09722	0.58907	0	92.22 %
2324	16.591667	41.208333	0.00	-1.00	-0.25299	-0.09822	-0.35121	1	92.26 %
2325	16.608333	41.208333	0.00	-14.75	-1.08474	-0.09328	-1.17802	1	92.3 %
2326	16.625000	41.208333	0.00	-20.45	-1.44504	-0.08884	-1.53388	1	92.34 %

2327	16.641667	41.208333	0.00	-23.80	-1.66792	-0.08514	-1.75305	1	92.38 %
2328	16.658333	41.208333	0.00	-27.20	-1.89558	-0.08185	-1.97742	1	92.42 %
2329	16.675000	41.208333	0.00	-31.75	-2.20670	-0.07938	-2.28609	1	92.46 %
2330	16.691667	41.208333	0.00	-37.80	-2.61588	-0.07721	-2.69309	1	92.5 %
2331	16.708333	41.208333	0.00	-43.25	-2.99573	-0.07587	-3.07160	1	92.54 %
2332	16.725000	41.208333	0.00	-49.65	-3.42713	-0.07495	-3.50208	1	92.58 %
2333	16.741667	41.208333	0.00	-55.15	-3.78634	-0.07481	-3.86115	1	92.62 %
2334	16.758333	41.208333	0.00	-60.50	-4.14584	-0.07529	-4.22113	1	92.66 %
2335	16.775000	41.208333	0.00	-64.65	-4.44052	-0.07652	-4.51705	1	92.7 %
2336	16.791667	41.208333	0.00	-69.65	-4.79161	-0.07850	-4.87011	1	92.74 %
2337	16.808333	41.208333	0.00	-75.70	-5.19137	-0.08109	-5.27246	1	92.78 %
2338	16.825000	41.208333	0.00	-80.80	-5.54055	-0.08464	-5.62520	1	92.82 %
2339	16.841667	41.208333	0.00	-85.70	-5.87759	-0.08887	-5.96646	1	92.86 %
2340	15.858333	41.191667	182.00	182.00	20.09867	0.13559	20.23427	0	92.9 %
2341	15.875000	41.191667	166.00	166.00	18.12723	0.10754	18.23476	0	92.94 %
2342	15.891667	41.191667	149.00	149.00	15.96087	0.07711	16.03798	0	92.98 %
2343	15.908333	41.191667	119.00	119.00	12.51277	0.02259	12.53536	0	93.02 %
2344	15.925000	41.191667	102.00	102.00	10.95059	-0.00951	10.94108	0	93.06 %
2345	15.941667	41.191667	86.00	86.00	9.39694	-0.04106	9.35588	0	93.1 %
2346	15.958333	41.191667	76.00	76.00	8.40774	-0.06337	8.34437	0	93.13 %
2347	15.975000	41.191667	70.00	70.00	7.64329	-0.07727	7.56602	0	93.17 %
2348	15.991667	41.191667	77.00	77.00	8.39636	-0.06801	8.32836	0	93.21 %
2349	16.008333	41.191667	110.00	110.00	12.02186	-0.01101	12.01085	0	93.25 %
2350	16.025000	41.191667	115.00	115.00	12.68167	-0.00640	12.67527	0	93.29 %
2351	16.041667	41.191667	133.00	133.00	14.62325	0.02046	14.64371	0	93.33 %
2352	16.058333	41.191667	134.00	134.00	14.21701	0.01603	14.23304	0	93.37 %
2353	16.075000	41.191667	202.00	202.00	22.07757	0.13234	22.20992	0	93.41 %
2354	16.091667	41.191667	220.00	220.00	24.05816	0.15845	24.21661	0	93.45 %
2355	16.108333	41.191667	221.00	221.00	24.23662	0.15382	24.39044	0	93.49 %
2356	16.125000	41.191667	208.00	208.00	22.61329	0.12504	22.73833	0	93.53 %
2357	16.141667	41.191667	187.00	187.00	20.64977	0.08134	20.73111	0	93.57 %
2358	16.158333	41.191667	199.00	199.00	21.88915	0.09984	21.98899	0	93.61 %
2359	16.175000	41.191667	208.00	208.00	22.61554	0.11227	22.72781	0	93.65 %
2360	16.191667	41.191667	192.00	192.00	21.18410	0.08129	21.26539	0	93.69 %
2361	16.208333	41.191667	193.00	193.00	21.00290	0.08039	21.08328	0	93.73 %
2362	16.225000	41.191667	201.00	201.00	22.09233	0.09357	22.18590	0	93.77 %
2363	16.241667	41.191667	198.00	198.00	21.68299	0.08662	21.76961	0	93.81 %
2364	16.258333	41.191667	202.00	202.00	22.06613	0.09317	22.15930	0	93.85 %
2365	16.275000	41.191667	228.00	228.00	24.82869	0.13893	24.96762	0	93.89 %
2366	16.291667	41.191667	197.00	197.00	21.63818	0.08347	21.72165	0	93.93 %
2367	16.308333	41.191667	192.00	192.00	20.98767	0.07503	21.06269	0	93.97 %

2368	16.325000	41.191667	195.00	195.00	21.47761	0.08006	21.55767	0	94.01 %
2369	16.341667	41.191667	194.00	194.00	21.40762	0.07863	21.48625	0	94.05 %
2370	16.358333	41.191667	184.00	184.00	20.34987	0.06300	20.41287	0	94.09 %
2371	16.375000	41.191667	181.00	181.00	19.95318	0.05886	20.01204	0	94.13 %
2372	16.391667	41.191667	174.00	174.00	19.16346	0.04912	19.21258	0	94.17 %
2373	16.408333	41.191667	164.00	164.00	18.05964	0.03539	18.09504	0	94.21 %
2374	16.425000	41.191667	164.00	164.00	17.98466	0.03682	18.02148	0	94.25 %
2375	16.441667	41.191667	136.00	136.00	14.85260	-0.00026	14.85234	0	94.29 %
2376	16.458333	41.191667	121.00	121.00	13.13397	-0.01762	13.11635	0	94.33 %
2377	16.475000	41.191667	106.00	106.00	11.57133	-0.03398	11.53735	0	94.37 %
2378	16.491667	41.191667	95.00	95.00	10.35305	-0.04381	10.30924	0	94.4 %
2379	16.508333	41.191667	83.00	83.00	9.12946	-0.05407	9.07538	0	94.44 %
2380	16.525000	41.191667	70.00	70.00	7.72543	-0.06453	7.66090	0	94.48 %
2381	16.541667	41.191667	62.00	62.00	6.69963	-0.06861	6.63102	0	94.52 %
2382	16.558333	41.191667	52.00	52.00	5.67345	-0.07447	5.59898	0	94.56 %
2383	16.575000	41.191667	45.00	45.00	4.95662	-0.07671	4.87991	0	94.6 %
2384	16.591667	41.191667	39.00	39.00	4.25863	-0.07799	4.18064	0	94.64 %
2385	16.608333	41.191667	22.00	22.00	2.24876	-0.08796	2.16080	0	94.68 %
2386	16.625000	41.191667	10.00	10.00	0.90880	-0.09289	0.81591	0	94.72 %
2387	16.641667	41.191667	6.00	6.00	0.50575	-0.09157	0.41419	0	94.76 %
2388	16.658333	41.191667	3.00	3.00	0.22151	-0.08955	0.13196	0	94.8 %
2389	16.675000	41.191667	1.00	1.00	-0.12485	-0.08751	-0.21236	0	94.84 %
2390	16.691667	41.191667	0.00	-22.85	-1.61684	-0.08501	-1.70186	1	94.88 %
2391	16.708333	41.191667	0.00	-27.55	-1.92837	-0.08279	-2.01116	1	94.92 %
2392	16.725000	41.191667	0.00	-33.15	-2.30941	-0.08095	-2.39035	1	94.96 %
2393	16.741667	41.191667	0.00	-38.90	-2.69628	-0.07991	-2.77619	1	95.0 %
2394	16.758333	41.191667	0.00	-45.30	-3.13636	-0.07949	-3.21585	1	95.04 %
2395	16.775000	41.191667	0.00	-50.65	-3.51920	-0.07987	-3.59908	1	95.08 %
2396	16.791667	41.191667	0.00	-55.70	-3.87710	-0.08101	-3.95811	1	95.12 %
2397	16.808333	41.191667	0.00	-62.30	-4.29603	-0.08274	-4.37877	1	95.16 %
2398	16.825000	41.191667	0.00	-68.40	-4.69729	-0.08542	-4.78272	1	95.2 %
2399	16.841667	41.191667	0.00	-73.55	-5.06532	-0.08873	-5.15405	1	95.24 %
2400	15.858333	41.175000	172.00	172.00	18.71439	0.11231	18.82669	0	95.28 %
2401	15.875000	41.175000	166.00	166.00	18.19204	0.10166	18.29370	0	95.32 %
2402	15.891667	41.175000	180.00	180.00	19.78211	0.12926	19.91136	0	95.36 %
2403	15.908333	41.175000	177.00	177.00	19.24727	0.12296	19.37023	0	95.4 %
2404	15.925000	41.175000	83.00	83.00	9.13116	-0.06305	9.06812	0	95.44 %
2405	15.941667	41.175000	81.00	81.00	8.93392	-0.07006	8.86386	0	95.48 %
2406	15.958333	41.175000	76.00	76.00	8.36846	-0.08471	8.28375	0	95.52 %
2407	15.975000	41.175000	99.00	99.00	10.95404	-0.04217	10.91188	0	95.56 %

2408	15.991667	41.175000	108.00	108.00	11.68388	-0.02799	11.65589	0	95.6 %
2409	16.008333	41.175000	144.00	144.00	15.87553	0.04006	15.91559	0	95.63 %
2410	16.025000	41.175000	155.00	155.00	16.90903	0.05741	16.96644	0	95.67 %
2411	16.041667	41.175000	144.00	144.00	15.64467	0.03053	15.67520	0	95.71 %
2412	16.058333	41.175000	181.00	181.00	19.47126	0.09645	19.56772	0	95.75 %
2413	16.075000	41.175000	236.00	236.00	25.88821	0.19725	26.08546	0	95.79 %
2414	16.091667	41.175000	234.00	234.00	25.70871	0.18687	25.89558	0	95.83 %
2415	16.108333	41.175000	233.00	233.00	25.26273	0.17849	25.44121	0	95.87 %
2416	16.125000	41.175000	225.00	225.00	24.49108	0.15758	24.64866	0	95.91 %
2417	16.141667	41.175000	220.00	220.00	23.90475	0.14244	24.04719	0	95.95 %
2418	16.158333	41.175000	227.00	227.00	24.88966	0.15281	25.04247	0	95.99 %
2419	16.175000	41.175000	220.00	220.00	24.26526	0.13487	24.40013	0	96.03 %
2420	16.191667	41.175000	224.00	224.00	24.49508	0.14118	24.63625	0	96.07 %
2421	16.208333	41.175000	224.00	224.00	24.55187	0.13794	24.68982	0	96.11 %
2422	16.225000	41.175000	227.00	227.00	24.89932	0.14176	25.04109	0	96.15 %
2423	16.241667	41.175000	230.00	230.00	25.23969	0.14563	25.38532	0	96.19 %
2424	16.258333	41.175000	238.00	238.00	25.82175	0.16018	25.98193	0	96.23 %
2425	16.275000	41.175000	247.00	247.00	27.05568	0.17669	27.23237	0	96.27 %
2426	16.291667	41.175000	228.00	228.00	24.86579	0.13865	25.00444	0	96.31 %
2427	16.308333	41.175000	215.00	215.00	23.72483	0.11377	23.83860	0	96.35 %
2428	16.325000	41.175000	212.00	212.00	23.40279	0.10819	23.51098	0	96.39 %
2429	16.341667	41.175000	214.00	214.00	23.54901	0.11228	23.66129	0	96.43 %
2430	16.358333	41.175000	209.00	209.00	22.93967	0.10342	23.04308	0	96.47 %
2431	16.375000	41.175000	206.00	206.00	22.53483	0.09864	22.63347	0	96.51 %
2432	16.391667	41.175000	198.00	198.00	21.81726	0.08561	21.90287	0	96.55 %
2433	16.408333	41.175000	192.00	192.00	21.09592	0.07653	21.17246	0	96.59 %
2434	16.425000	41.175000	174.00	174.00	19.15281	0.04927	19.20208	0	96.63 %
2435	16.441667	41.175000	164.00	164.00	18.12151	0.03550	18.15701	0	96.67 %
2436	16.458333	41.175000	154.00	154.00	16.92455	0.02249	16.94703	0	96.71 %
2437	16.475000	41.175000	144.00	144.00	15.74737	0.01013	15.75751	0	96.75 %
2438	16.491667	41.175000	126.00	126.00	13.91279	-0.01191	13.90087	0	96.79 %
2439	16.508333	41.175000	104.00	104.00	11.30843	-0.03737	11.27105	0	96.83 %
2440	16.525000	41.175000	100.00	100.00	10.95705	-0.03869	10.91836	0	96.87 %
2441	16.541667	41.175000	89.00	89.00	9.75764	-0.04806	9.70958	0	96.9 %
2442	16.558333	41.175000	80.00	80.00	8.71415	-0.05463	8.65953	0	96.94 %
2443	16.575000	41.175000	73.00	73.00	8.02433	-0.05841	7.96592	0	96.98 %
2444	16.591667	41.175000	63.00	63.00	6.91979	-0.06483	6.85495	0	97.02 %
2445	16.608333	41.175000	56.00	56.00	6.13108	-0.06792	6.06316	0	97.06 %
2446	16.625000	41.175000	51.00	51.00	5.49713	-0.06904	5.42809	0	97.1 %
2447	16.641667	41.175000	42.00	42.00	4.53179	-0.07364	4.45815	0	97.14 %
2448	16.658333	41.175000	36.00	36.00	3.89772	-0.07537	3.82235	0	97.18 %

2449	16.675000	41.175000	26.00	26.00	2.80570	-0.08012	2.72559	0	97.22 %
2450	16.691667	41.175000	12.00	12.00	1.12063	-0.08669	1.03394	0	97.26 %
2451	16.708333	41.175000	1.00	1.00	-0.06232	-0.09073	-0.15305	0	97.3 %
2452	16.725000	41.175000	0.00	-15.60	-1.12038	-0.08862	-1.20900	1	97.34 %
2453	16.741667	41.175000	0.00	-20.80	-1.51026	-0.08667	-1.59693	1	97.38 %
2454	16.758333	41.175000	0.00	-27.85	-1.96629	-0.08535	-2.05164	1	97.42 %
2455	16.775000	41.175000	0.00	-36.55	-2.53398	-0.08478	-2.61876	1	97.46 %
2456	16.791667	41.175000	0.00	-42.40	-2.92749	-0.08505	-3.01254	1	97.5 %
2457	16.808333	41.175000	0.00	-46.60	-3.23065	-0.08588	-3.31653	1	97.54 %
2458	16.825000	41.175000	0.00	-51.30	-3.55775	-0.08769	-3.64545	1	97.58 %
2459	16.841667	41.175000	0.00	-56.50	-3.91024	-0.09009	-4.00033	1	97.62 %
2460	15.858333	41.158333	130.00	130.00	14.13478	0.01526	14.15004	0	97.66 %
2461	15.875000	41.158333	128.00	128.00	13.74723	0.01269	13.75992	0	97.7 %
2462	15.891667	41.158333	93.00	93.00	10.24997	-0.06103	10.18894	0	97.74 %
2463	15.908333	41.158333	92.00	92.00	10.09879	-0.06408	10.03471	0	97.78 %
2464	15.925000	41.158333	90.00	90.00	9.92105	-0.06991	9.85113	0	97.82 %
2465	15.941667	41.158333	102.00	102.00	11.21197	-0.04786	11.16411	0	97.86 %
2466	15.958333	41.158333	117.00	117.00	12.98796	-0.02098	12.96698	0	97.9 %
2467	15.975000	41.158333	114.00	114.00	12.58855	-0.03079	12.55776	0	97.94 %
2468	15.991667	41.158333	139.00	139.00	15.14074	0.01840	15.15914	0	97.98 %
2469	16.008333	41.158333	166.00	166.00	17.96560	0.07315	18.03875	0	98.02 %
2470	16.025000	41.158333	173.00	173.00	18.91369	0.08427	18.99795	0	98.06 %
2471	16.041667	41.158333	169.00	169.00	18.32837	0.07112	18.39949	0	98.1 %
2472	16.058333	41.158333	200.00	200.00	21.71079	0.13023	21.84102	0	98.13 %
2473	16.075000	41.158333	260.00	260.00	28.47135	0.24949	28.72084	0	98.17 %
2474	16.091667	41.158333	275.00	275.00	30.00070	0.27500	30.27571	0	98.21 %
2475	16.108333	41.158333	351.00	351.00	37.93929	0.42818	38.36747	0	98.25 %
2476	16.125000	41.158333	284.00	284.00	30.18351	0.28370	30.46720	0	98.29 %
2477	16.141667	41.158333	253.00	253.00	27.46275	0.21393	27.67667	0	98.33 %
2478	16.158333	41.158333	253.00	253.00	27.66243	0.21095	27.87338	0	98.37 %
2479	16.175000	41.158333	240.00	240.00	26.11044	0.17954	26.28998	0	98.41 %
2480	16.191667	41.158333	238.00	238.00	25.97695	0.17333	26.15028	0	98.45 %
2481	16.208333	41.158333	283.00	283.00	30.90133	0.26758	31.16891	0	98.49 %
2482	16.225000	41.158333	289.00	289.00	31.58768	0.27816	31.86584	0	98.53 %
2483	16.241667	41.158333	277.00	277.00	30.34829	0.24869	30.59699	0	98.57 %
2484	16.258333	41.158333	261.00	261.00	28.59672	0.21179	28.80851	0	98.61 %
2485	16.275000	41.158333	256.00	256.00	28.11058	0.19934	28.30992	0	98.65 %
2486	16.291667	41.158333	261.00	261.00	28.66791	0.20841	28.87632	0	98.69 %
2487	16.308333	41.158333	261.00	261.00	28.26125	0.20727	28.46852	0	98.73 %
2488	16.325000	41.158333	247.00	247.00	26.93019	0.17735	27.10755	0	98.77 %

2489	16.341667	41.158333	239.00	239.00	26.24281	0.16100	26.40381	0	98.81 %
2490	16.358333	41.158333	225.00	225.00	24.72154	0.13339	24.85493	0	98.85 %
2491	16.375000	41.158333	218.00	218.00	24.03802	0.12061	24.15863	0	98.89 %
2492	16.391667	41.158333	220.00	220.00	24.21776	0.12474	24.34250	0	98.93 %
2493	16.408333	41.158333	225.00	225.00	24.78294	0.13392	24.91687	0	98.97 %
2494	16.425000	41.158333	202.00	202.00	22.16562	0.09426	22.25988	0	99.01 %
2495	16.441667	41.158333	187.00	187.00	20.50501	0.07002	20.57504	0	99.05 %
2496	16.458333	41.158333	178.00	178.00	19.61432	0.05668	19.67101	0	99.09 %
2497	16.475000	41.158333	168.00	168.00	18.34228	0.04231	18.38458	0	99.13 %
2498	16.491667	41.158333	153.00	153.00	16.64652	0.02156	16.66808	0	99.17 %
2499	16.508333	41.158333	140.00	140.00	15.40680	0.00512	15.41192	0	99.21 %
2500	16.525000	41.158333	132.00	132.00	14.39452	-0.00351	14.39101	0	99.25 %
2501	16.541667	41.158333	119.00	119.00	13.11948	-0.01803	13.10144	0	99.29 %
2502	16.558333	41.158333	110.00	110.00	12.06476	-0.02679	12.03797	0	99.33 %
2503	16.575000	41.158333	105.00	105.00	11.53474	-0.02979	11.50495	0	99.37 %
2504	16.591667	41.158333	99.00	99.00	10.73144	-0.03404	10.69740	0	99.4 %
2505	16.608333	41.158333	94.00	94.00	10.18417	-0.03690	10.14726	0	99.44 %
2506	16.625000	41.158333	79.00	79.00	8.55927	-0.04992	8.50934	0	99.48 %
2507	16.641667	41.158333	67.00	67.00	7.40922	-0.05915	7.35007	0	99.52 %
2508	16.658333	41.158333	62.00	62.00	6.79878	-0.06111	6.73767	0	99.56 %
2509	16.675000	41.158333	54.00	54.00	5.88849	-0.06595	5.82253	0	99.6 %
2510	16.691667	41.158333	43.00	43.00	4.74192	-0.07248	4.66944	0	99.64 %
2511	16.708333	41.158333	35.00	35.00	3.80846	-0.07641	3.73206	0	99.68 %
2512	16.725000	41.158333	29.00	29.00	3.09413	-0.07850	3.01563	0	99.72 %
2513	16.741667	41.158333	25.00	25.00	2.70134	-0.07959	2.62175	0	99.76 %
2514	16.758333	41.158333	13.00	13.00	1.31008	-0.08539	1.22470	0	99.8 %
2515	16.775000	41.158333	7.00	7.00	0.62849	-0.08763	0.54086	0	99.84 %
2516	16.791667	41.158333	0.00	-14.70	-1.06657	-0.09062	-1.15720	1	99.88 %
2517	16.808333	41.158333	0.00	-24.00	-1.78519	-0.09054	-1.87572	1	99.92 %
2518	16.825000	41.158333	0.00	-32.40	-2.28768	-0.09141	-2.37909	1	99.96 %
2519	16.841667	41.158333	0.00	-35.70	-2.53330	-0.09290	-2.62620	1	100.0 %

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Total_time: 146.3747055530548 sec.

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Cell 12: Bouger anomaly

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Grid and plot

['right', 0.01, 0.07, 0.025, 0.8]
Min:39.214913 Max:102.560745 Mean:60.023767 Std:10.460138

