



DR. SPANG

Projekt: S6 2. Baustufe

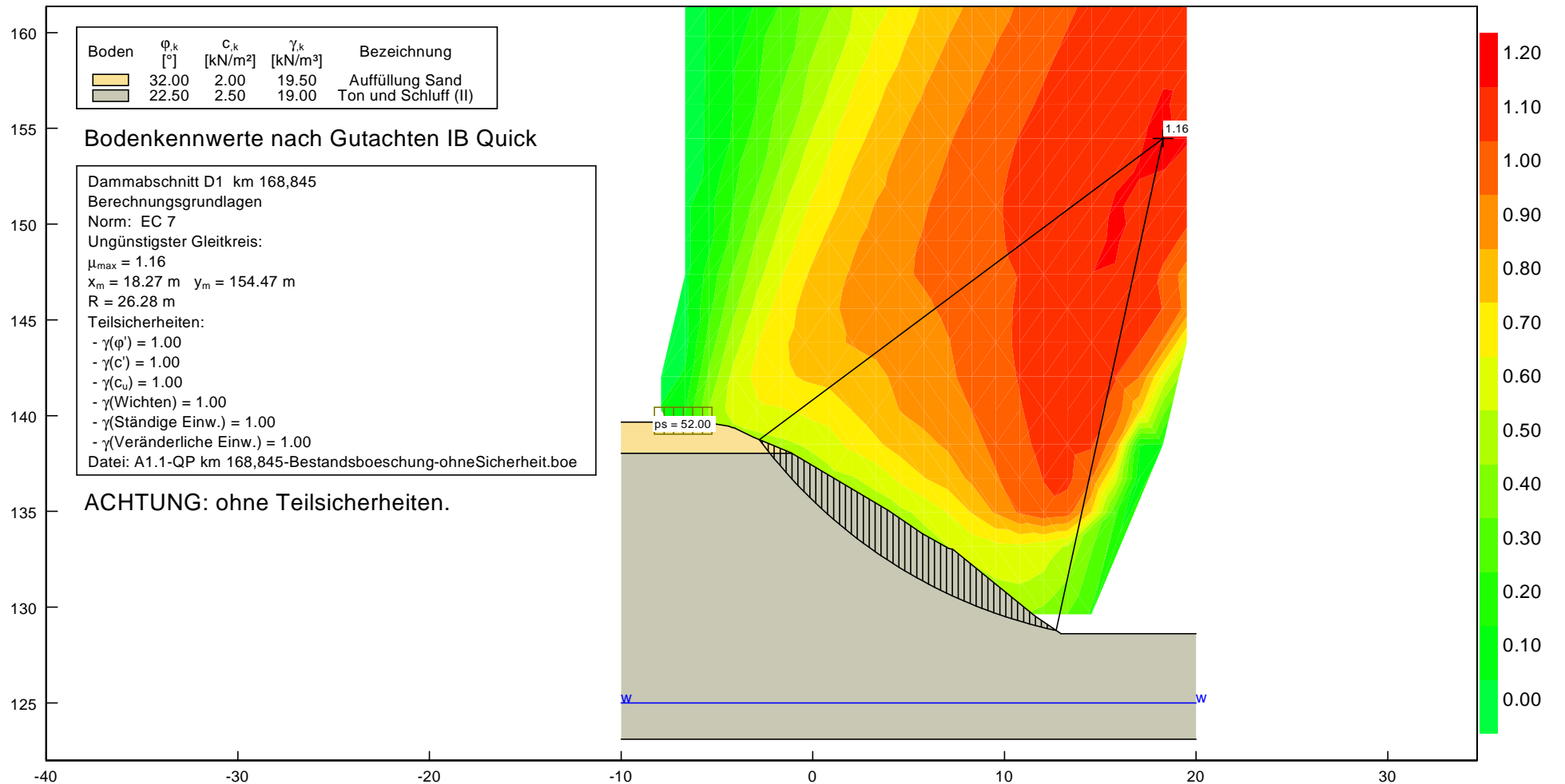
Böschungsbruchberechnung, D1 QP km 168,845, Bestandsböschung

Projekt: P 33.3184

Anlage: 1.1

Bearbeiter: Den/Fe

Datum: 24.07.2013

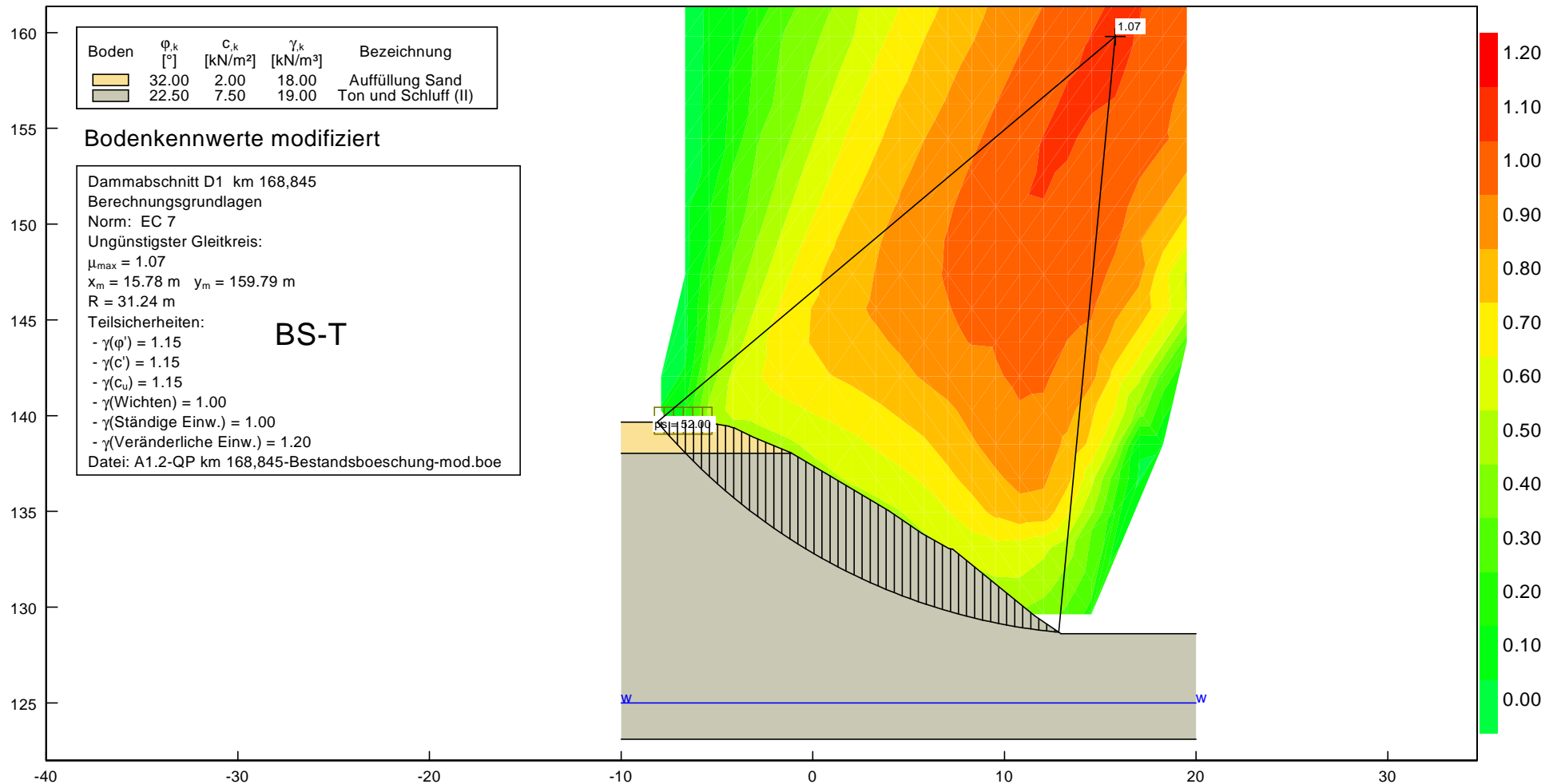




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Projekt: S6 2. Baustufe
 Böschungsbruchberechnung, D1, QP km 168,845, Bestandsböschung

Projekt: P 33.3184
 Anlage: 1.2
 Bearbeiter: Den/Fe
 Datum: 24.07.2013

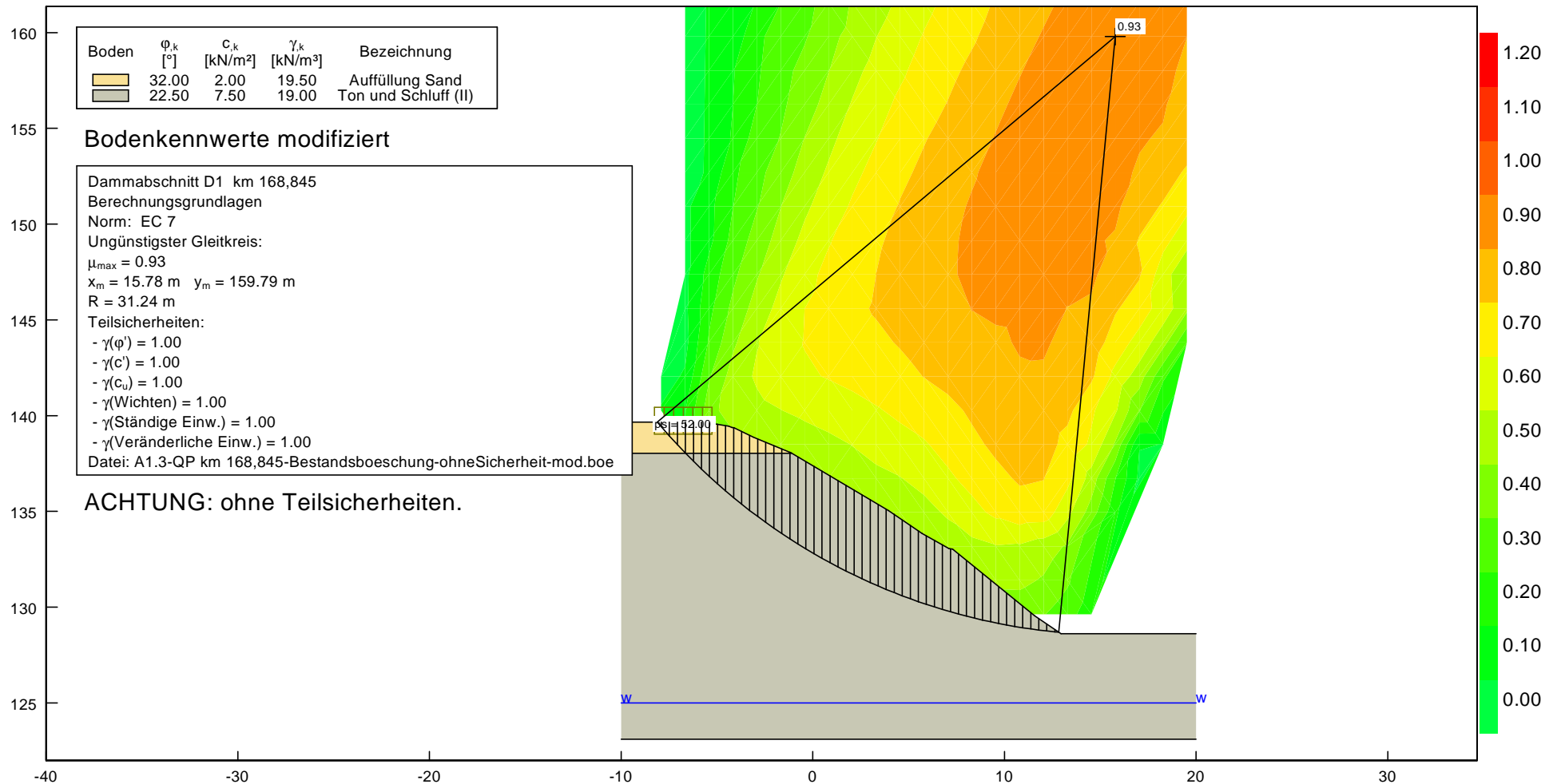




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Projekt: S6 2. Baustufe
 Böschungsbruchberechnung, D1 QP km 168,845, Bestandsböschung

Projekt: P 33.3184
 Anlage: 1.3
 Bearbeiter: Den/Fe
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**Böschungsberechnung nach EC 7
 mit Kreisleitflächen**

Dammabschnitt D1 km 168,845
 Datei: A1.3-QP km 168,845-Bestandsboeschung-ohneSicherheit-mod.boe

Parameterliste

phi [°] = Reibungswinkel
 c [kN/m²] = Kohäsion
 gamma [kN/m³] = Wichte
 mue [-] = Ausnutzungsgrad
 xm,ym [m] = x,y-Wert des Gleitkreismittelpunktes
 rad [m] = Radius des Gleitkreises

Teilsicherheiten: (GEO-3)

- gam(phi) = 1.00
- gam(c') = 1.00
- gam(cu) = 1.00
- gam(Wichten) = 1.00
- gam(Ständige Einw.) = 1.00
- gam(Veränderliche Einw.) = 1.00

Bewegungsrichtung des Gleitkörpers nach rechts

Koordinaten der Geländepunkte

Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]
1	-10.000	139.663	2	-5.660	139.663	3	-4.376	139.453	4	-4.222	139.377	5	-4.116	139.363
6	-3.103	138.874	7	-1.132	138.057	8	3.950	135.045	9	5.709	133.850	10	7.108	133.064
11	7.290	133.025	12	11.570	129.542	13	12.951	128.613	14	20.000	128.613			

Charakteristische Bodenkennwerte

Boden	φ _k	c _k	γ _k	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	32.00	2.00	19.50	Auffüllung Sand
2	22.50	7.50	19.00	Ton und Schluff (II)

Bemessungs-Bodenkennwerte

Boden	φ _d	c _d	γ _d	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	32.00	2.00	19.50	Auffüllung Sand
2	22.50	7.50	19.00	Ton und Schluff (II)

Koordinaten der Schichten und Bodennummern

Nr.	x(links)	y(links)	x(rechts)	y(rechts)	Boden-Nr.
[-]	[m]	[m]	[m]	[m]	
1	-10.000	138.030	-1.086	138.030	1
2	-10.000	123.100	20.000	123.100	2

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	-10.000	125.000	2	20.000	125.000

Ständige Lasten

Nr.	Größe(links)	Größe(rechts)	x(links)	x(rechts)	y
[-]	[kN/m ²]	[kN/m ²]	[m]	[m]	[m]
1	52.00	52.00	-8.26	-5.26	139.03

Wasserstand vor der Böschung links [m] = 125.00

Wasserstand vor der Böschung rechts [m] = 125.00

gamma Wasser [kN/m³] = 10.000

Berechnung mit Berücksichtigung des passiven Erddruckkeils

Ergebnisse

Suchbereich
Art Suchradius
Horizontale Tangenten
x / y (Anfang): 551.4652 125.9829
x / y (Ende): 550.0864 140.6568
Anzahl Radien = 40

Nr	xm	ym	Radius	Lamellen	mue	Zähler	Nenner	M(Ti)	M(R)	M(Gi)	M(S)
[-]	[m]	[m]	[m]	[-]	[-]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]
1	-7.9118	129.6312	nicht berechnet								
2	-7.9118	131.4052	nicht berechnet								
3	-7.9118	133.1793	nicht berechnet								
4	-7.9118	134.9533	nicht berechnet								
5	-7.9118	136.7274	nicht berechnet								
6	-7.9118	138.5014	nicht berechnet								
7	-7.9118	140.2755	1.0769	51	0.0594	0.771	12.987	13.0	0.0	0.8	0.0
8	-7.9118	142.0495	2.8601	50	0.0057	0.315	55.712	55.7	0.0	0.3	0.0
9	-7.9118	143.8235	4.6341	50	0.0001	0.000	114.271	114.3	0.0	0.0	0.0
10	-7.9118	145.5976	6.0413	50	0.0001	0.000	39.385	39.4	0.0	0.0	0.0
11	-7.9118	147.3716	nicht berechnet								
12	-7.9118	149.1457	nicht berechnet								
13	-7.9118	150.9197	nicht berechnet								
14	-7.9118	152.6938	nicht berechnet								
15	-7.9118	154.4678	nicht berechnet								
16	-7.9118	156.2418	16.6856	50	0.0001	0.000	180.629	180.6	0.0	0.0	0.0
17	-7.9118	158.0159	18.4596	50	0.0001	0.000	210.179	210.2	0.0	0.0	0.0
18	-7.9118	159.7899	20.2336	50	0.0001	0.000	241.186	241.2	0.0	0.0	0.0
19	-7.9118	161.5640	nicht berechnet								
20	-7.9118	163.3380	nicht berechnet								
21	-7.9118	165.1121	nicht berechnet								
22	-7.9118	166.8861	nicht berechnet								
23	-7.9118	168.6602	nicht berechnet								
24	-7.9118	170.4342	nicht berechnet								
25	-7.9118	172.2082	nicht berechnet								
26	-6.6649	129.6312	nicht berechnet								
27	-6.6649	131.4052	nicht berechnet								
28	-6.6649	133.1793	nicht berechnet								
29	-6.6649	134.9533	nicht berechnet								
30	-6.6649	136.7274	nicht berechnet								
31	-6.6649	138.5014	2.1554	74	0.1566	68.411	436.831	436.8	0.0	68.4	0.0
32	-6.6649	140.2755	2.1203	51	0.1450	53.196	366.804	366.8	0.0	53.2	0.0
33	-6.6649	142.0495	3.9606	50	0.0626	49.357	788.024	788.0	0.0	49.4	0.0
34	-6.6649	143.8235	4.6341	50	0.0189	2.032	107.519	107.5	0.0	2.0	0.0
35	-6.6649	145.5976	6.7750	50	0.0291	30.007	1032.768	1032.8	0.0	30.0	0.0
36	-6.6649	147.3716	8.1822	50	0.0264	6.340	240.042	240.0	0.0	6.3	0.0
37	-6.6649	149.1457	9.9562	50	0.0282	8.908	316.047	316.0	0.0	8.9	0.0
38	-6.6649	150.9197	11.7303	50	0.0295	11.679	396.180	396.2	0.0	11.7	0.0
39	-6.6649	152.6938	13.1375	50	0.0035	0.391	113.344	113.3	0.0	0.4	0.0
40	-6.6649	154.4678	14.9115	50	0.0039	0.528	134.784	134.8	0.0	0.5	0.0
41	-6.6649	156.2418	16.6856	50	0.0043	0.672	157.135	157.1	0.0	0.7	0.0
42	-6.6649	158.0159	18.4596	50	0.0046	0.823	180.332	180.3	0.0	0.8	0.0
43	-6.6649	159.7899	20.2336	50	0.0048	0.979	204.322	204.3	0.0	1.0	0.0
44	-6.6649	161.5640	22.0077	50	0.0050	1.140	229.061	229.1	0.0	1.1	0.0
45	-6.6649	163.3380	23.7817	50	0.0051	1.305	254.510	254.5	0.0	1.3	0.0
46	-6.6649	165.1121	25.5558	50	0.0053	1.474	280.638	280.6	0.0	1.5	0.0
47	-6.6649	166.8861	27.3298	50	0.0054	1.645	307.410	307.4	0.0	1.6	0.0
48	-6.6649	168.6602	29.1039	50	0.0054	1.819	334.807	334.8	0.0	1.8	0.0
49	-6.6649	170.4342	30.8779	50	0.0055	1.995	362.809	362.8	0.0	2.0	0.0
50	-6.6649	172.2082	32.6519	50	0.0056	2.173	391.395	391.4	0.0	2.2	0.0
51	-5.4180	129.6312	nicht berechnet								
52	-5.4180	131.4052	nicht berechnet								
53	-5.4180	133.1793	nicht berechnet								
54	-5.4180	134.9533	nicht berechnet								
55	-5.4180	136.7274	3.9295	69	0.2581	507.072	1964.277	1964.3	0.0	507.1	0.0
56	-5.4180	138.5014	2.6736	68	0.3506	251.274	716.727	716.7	0.0	251.3	0.0
57	-5.4180	140.2755	2.8158	50	0.4083	211.462	517.849	517.8	0.0	211.5	0.0
58	-5.4180	142.0495	4.3275	50	0.3387	285.171	841.871	841.9	0.0	285.2	0.0
59	-5.4180	143.8235	6.1015	50	0.2615	330.232	1262.868	1262.9	0.0	330.2	0.0

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60	-5.4180	145.5976	7.1418	50	0.2233	274.135	1227.566	1227.6	0.0	274.1	0.0
61	-5.4180	147.3716	8.9159	50	0.1870	298.223	1595.009	1595.0	0.0	298.2	0.0
62	-5.4180	149.1457	10.3231	50	0.1243	158.397	1274.216	1274.2	0.0	158.4	0.0
63	-5.4180	150.9197	12.0971	50	0.1197	193.742	1618.370	1618.4	0.0	193.7	0.0
64	-5.4180	152.6938	13.5043	50	0.0640	24.799	387.558	387.6	0.0	24.8	0.0
65	-5.4180	154.4678	15.2784	50	0.0621	28.574	460.170	460.2	0.0	28.6	0.0
66	-5.4180	156.2418	17.0524	50	0.0604	32.367	536.203	536.2	0.0	32.4	0.0
67	-5.4180	158.0159	18.8264	50	0.0588	36.175	615.613	615.6	0.0	36.2	0.0
68	-5.4180	159.7899	20.6005	50	0.0573	39.993	698.031	698.0	0.0	40.0	0.0
69	-5.4180	161.5640	22.3745	50	0.0559	43.820	783.535	783.5	0.0	43.8	0.0
70	-5.4180	163.3380	23.7817	50	0.0149	2.595	174.651	174.7	0.0	2.6	0.0
71	-5.4180	165.1121	25.5558	50	0.0144	2.792	193.808	193.8	0.0	2.8	0.0
72	-5.4180	166.8861	27.3298	50	0.0140	2.989	213.573	213.6	0.0	3.0	0.0
73	-5.4180	168.6602	29.1039	50	0.0136	3.185	233.929	233.9	0.0	3.2	0.0
74	-5.4180	170.4342	30.8779	50	0.0133	3.382	254.880	254.9	0.0	3.4	0.0
75	-5.4180	172.2082	32.6519	50	0.0129	3.579	276.411	276.4	0.0	3.6	0.0
76	-4.1710	129.6312	nicht berechnet								
77	-4.1710	131.4052	nicht berechnet								
78	-4.1710	133.1793	nicht berechnet								
79	-4.1710	134.9533	5.7035	66	0.2821	1539.260	5455.683	5455.7	0.0	1539.3	0.0
80	-4.1710	136.7274	4.0998	65	0.3462	773.637	2234.830	2234.8	0.0	773.6	0.0
81	-4.1710	138.5014	3.7099	62	0.4106	569.815	1387.604	1387.6	0.0	569.8	0.0
82	-4.1710	140.2755	2.8158	50	0.5086	202.128	397.434	397.4	0.0	202.1	0.0
83	-4.1710	142.0495	4.6943	50	0.4930	459.068	931.124	931.1	0.0	459.1	0.0
84	-4.1710	143.8235	6.4683	50	0.4306	630.182	1463.447	1463.4	0.0	630.2	0.0
85	-4.1710	145.5976	7.8755	50	0.3747	623.912	1664.891	1664.9	0.0	623.9	0.0
86	-4.1710	147.3716	9.2827	50	0.3260	590.306	1810.539	1810.5	0.0	590.3	0.0
87	-4.1710	149.1457	11.0568	50	0.2809	631.828	2249.368	2249.4	0.0	631.8	0.0
88	-4.1710	150.9197	12.4640	50	0.2486	501.421	2016.803	2016.8	0.0	501.4	0.0
89	-4.1710	152.6938	14.2380	50	0.2276	555.227	2439.055	2439.1	0.0	555.2	0.0
90	-4.1710	154.4678	15.6452	50	0.1616	246.045	1523.016	1523.0	0.0	246.0	0.0
91	-4.1710	156.2418	17.4193	50	0.1496	263.691	1763.118	1763.1	0.0	263.7	0.0
92	-4.1710	158.0159	19.1933	50	0.1427	297.636	2085.633	2085.6	0.0	297.6	0.0
93	-4.1710	159.7899	20.6005	50	0.0840	42.832	510.193	510.2	0.0	42.8	0.0
94	-4.1710	161.5640	22.3745	50	0.0807	46.708	578.540	578.5	0.0	46.7	0.0
95	-4.1710	163.3380	24.1486	50	0.0779	50.590	649.775	649.8	0.0	50.6	0.0
96	-4.1710	165.1121	25.9226	50	0.0753	54.468	723.799	723.8	0.0	54.5	0.0
97	-4.1710	166.8861	27.6967	50	0.0729	58.348	800.520	800.5	0.0	58.3	0.0
98	-4.1710	168.6602	29.4707	50	0.0707	62.228	879.714	879.7	0.0	62.2	0.0
99	-4.1710	170.4342	31.2448	50	0.0688	66.107	961.301	961.3	0.0	66.1	0.0
100	-4.1710	172.2082	33.0188	50	0.0670	69.984	1045.275	1045.3	0.0	70.0	0.0
101	-2.9241	129.6312	nicht berechnet								
102	-2.9241	131.4052	7.1455	71	0.2837	3174.901	11191.723	11191.7	0.0	3174.9	0.0
103	-2.9241	133.1793	7.1964	65	0.2983	3174.590	10640.660	10640.7	0.0	3174.6	0.0
104	-2.9241	134.9533	5.7035	63	0.3351	1829.749	5459.525	5459.5	0.0	1829.7	0.0
105	-2.9241	136.7274	5.2925	61	0.3822	1497.622	3918.013	3918.0	0.0	1497.6	0.0
106	-2.9241	138.5014	5.2644	56	0.4389	1324.116	3016.692	3016.7	0.0	1324.1	0.0
107	-2.9241	140.2755	4.2070	50	0.5239	542.424	1035.332	1035.3	0.0	542.4	0.0
108	-2.9241	142.0495	5.4280	50	0.5640	709.901	1258.670	1258.7	0.0	709.9	0.0
109	-2.9241	143.8235	7.2020	50	0.5438	1057.961	1945.365	1945.4	0.0	1058.0	0.0
110	-2.9241	145.5976	8.6092	50	0.4910	1064.843	2168.670	2168.7	0.0	1064.8	0.0
111	-2.9241	147.3716	10.0164	50	0.4392	1030.263	2345.946	2345.9	0.0	1030.3	0.0
112	-2.9241	149.1457	11.7905	50	0.3923	1120.799	2856.821	2856.8	0.0	1120.8	0.0
113	-2.9241	150.9197	13.1977	50	0.3431	1028.379	2997.005	2997.0	0.0	1028.4	0.0
114	-2.9241	152.6938	14.6049	50	0.3184	864.388	2714.360	2714.4	0.0	864.4	0.0
115	-2.9241	154.4678	16.3789	50	0.2957	962.146	3254.292	3254.3	0.0	962.1	0.0
116	-2.9241	156.2418	17.7861	50	0.2488	598.079	2403.871	2403.9	0.0	598.1	0.0
117	-2.9241	158.0159	19.5601	50	0.2366	678.094	2866.344	2866.3	0.0	678.1	0.0
118	-2.9241	159.7899	21.3342	50	0.2258	758.342	3358.632	3358.6	0.0	758.3	0.0
119	-2.9241	161.5640	22.7414	50	0.1615	247.516	1532.850	1532.9	0.0	247.5	0.0
120	-2.9241	163.3380	24.5154	50	0.1553	279.302	1798.667	1798.7	0.0	279.3	0.0
121	-2.9241	165.1121	26.2895	50	0.1495	310.995	2080.338	2080.3	0.0	311.0	0.0
122	-2.9241	166.8861	28.0635	50	0.1442	342.815	2377.222	2377.2	0.0	342.8	0.0
123	-2.9241	168.6602	29.8376	50	0.1393	374.491	2688.225	2688.2	0.0	374.5	0.0
124	-2.9241	170.4342	31.2448	50	0.0842	55.408	658.395	658.4	0.0	55.4	0.0
125	-2.9241	172.2082	33.0188	50	0.0817	59.275	725.172	725.2	0.0	59.3	0.0
126	-1.6772	129.6312	nicht berechnet								
127	-1.6772	131.4052	8.2943	70	0.3194	5092.934	15946.896	15946.9	0.0	5092.9	0.0

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128	-1.6772	133.1793	7.1964	63	0.3362	3550.749	10560.278	10560.3	0.0	3550.7	0.0
129	-1.6772	134.9533	6.6019	61	0.3714	2829.239	7617.158	7617.2	0.0	2829.2	0.0
130	-1.6772	136.7274	6.4851	58	0.4127	2501.766	6061.646	6061.6	0.0	2501.8	0.0
131	-1.6772	138.5014	6.5597	53	0.4698	2294.497	4884.279	4884.3	0.0	2294.5	0.0
132	-1.6772	140.2755	6.2936	50	0.5483	1683.181	3069.606	3069.6	0.0	1683.2	0.0
133	-1.6772	142.0495	6.8954	50	0.6092	1531.550	2513.852	2513.9	0.0	1531.6	0.0
134	-1.6772	143.8235	7.9357	50	0.6139	1500.056	2443.344	2443.3	0.0	1500.1	0.0
135	-1.6772	145.5976	9.3429	50	0.5837	1604.685	2749.191	2749.2	0.0	1604.7	0.0
136	-1.6772	147.3716	10.7501	50	0.5383	1577.998	2931.580	2931.6	0.0	1578.0	0.0
137	-1.6772	149.1457	12.1573	50	0.4914	1504.868	3062.280	3062.3	0.0	1504.9	0.0
138	-1.6772	150.9197	13.9314	50	0.4482	1627.343	3630.459	3630.5	0.0	1627.3	0.0
139	-1.6772	152.6938	15.3386	50	0.4026	1488.132	3696.512	3696.5	0.0	1488.1	0.0
140	-1.6772	154.4678	16.7458	50	0.3544	1270.244	3584.254	3584.3	0.0	1270.2	0.0
141	-1.6772	156.2418	18.5198	50	0.3315	1395.475	4209.523	4209.5	0.0	1395.5	0.0
142	-1.6772	158.0159	19.9270	50	0.3143	1057.000	3363.449	3363.4	0.0	1057.0	0.0
143	-1.6772	159.7899	21.7010	50	0.2998	1191.344	3973.638	3973.6	0.0	1191.3	0.0
144	-1.6772	161.5640	23.1082	50	0.2495	627.109	2513.080	2513.1	0.0	627.1	0.0
145	-1.6772	163.3380	24.8823	50	0.2394	705.100	2945.454	2945.5	0.0	705.1	0.0
146	-1.6772	165.1121	26.6563	50	0.2301	783.162	3403.558	3403.6	0.0	783.2	0.0
147	-1.6772	166.8861	28.4304	50	0.2216	860.935	3885.479	3885.5	0.0	860.9	0.0
148	-1.6772	168.6602	29.8376	50	0.1458	155.606	1067.388	1067.4	0.0	155.6	0.0
149	-1.6772	170.4342	31.6116	50	0.1418	171.570	1209.846	1209.8	0.0	171.6	0.0
150	-1.6772	172.2082	33.3856	50	0.1396	197.864	1417.766	1417.8	0.0	197.9	0.0
151	-0.4302	129.6312	nicht berechnet								
152	-0.4302	131.4052	8.2943	70	0.3512	5554.648	15814.693	15814.7	0.0	5554.6	0.0
153	-0.4302	133.1793	7.4776	60	0.3641	4138.187	11366.490	11366.5	0.0	4138.2	0.0
154	-0.4302	134.9533	7.8270	59	0.4053	4473.241	11036.893	11036.9	0.0	4473.2	0.0
155	-0.4302	136.7274	7.8481	55	0.4421	4082.120	9233.569	9233.6	0.0	4082.1	0.0
156	-0.4302	138.5014	7.5961	51	0.4995	3306.428	6619.366	6619.4	0.0	3306.4	0.0
157	-0.4302	140.2755	6.9892	50	0.5732	2088.411	3643.110	3643.1	0.0	2088.4	0.0
158	-0.4302	142.0495	7.6291	50	0.6371	1933.869	3035.410	3035.4	0.0	1933.9	0.0
159	-0.4302	143.8235	8.6694	50	0.6540	1916.147	2929.940	2929.9	0.0	1916.1	0.0
160	-0.4302	145.5976	10.0766	50	0.6498	2184.742	3362.098	3362.1	0.0	2184.7	0.0
161	-0.4302	147.3716	11.4838	50	0.6183	2227.797	3602.948	3602.9	0.0	2227.8	0.0
162	-0.4302	149.1457	12.8910	50	0.5757	2158.905	3750.061	3750.1	0.0	2158.9	0.0
163	-0.4302	150.9197	14.6651	50	0.5316	2357.849	4435.735	4435.7	0.0	2357.8	0.0
164	-0.4302	152.6938	16.0723	50	0.4907	2198.575	4480.072	4480.1	0.0	2198.6	0.0
165	-0.4302	154.4678	17.4795	50	0.4515	2006.472	4443.986	4444.0	0.0	2006.5	0.0
166	-0.4302	156.2418	18.8867	50	0.4029	1748.247	4338.766	4338.8	0.0	1748.2	0.0
167	-0.4302	158.0159	20.6607	50	0.3816	1886.998	4945.377	4945.4	0.0	1887.0	0.0
168	-0.4302	159.7899	22.0679	50	0.3395	1490.132	4389.732	4389.7	0.0	1490.1	0.0
169	-0.4302	161.5640	23.8419	50	0.3266	1676.156	5132.391	5132.4	0.0	1676.2	0.0
170	-0.4302	163.3380	25.2491	50	0.3042	1085.668	3569.335	3569.3	0.0	1085.7	0.0
171	-0.4302	165.1121	27.0232	50	0.2925	1214.630	4152.370	4152.4	0.0	1214.6	0.0
172	-0.4302	166.8861	28.7972	50	0.2818	1343.394	4767.189	4767.2	0.0	1343.4	0.0
173	-0.4302	168.6602	30.2044	50	0.2339	605.173	2587.582	2587.6	0.0	605.2	0.0
174	-0.4302	170.4342	31.9785	50	0.2266	677.676	2989.996	2990.0	0.0	677.7	0.0
175	-0.4302	172.2082	33.7525	50	0.2197	750.008	3413.851	3413.9	0.0	750.0	0.0
176	0.8167	129.6312	6.4148	69	0.3037	2600.111	8561.747	8561.7	0.0	2600.1	0.0
177	0.8167	131.4052	8.2943	67	0.3699	5692.630	15389.561	15389.6	0.0	5692.6	0.0
178	0.8167	133.1793	7.4776	58	0.3741	4009.810	10719.655	10719.7	0.0	4009.8	0.0
179	0.8167	134.9533	8.9704	57	0.4333	6388.923	14744.868	14744.9	0.0	6388.9	0.0
180	0.8167	136.7274	9.0407	53	0.4717	5902.451	12513.081	12513.1	0.0	5902.5	0.0
181	0.8167	138.5014	8.8914	50	0.5243	4964.224	9467.911	9467.9	0.0	4964.2	0.0
182	0.8167	140.2755	8.3803	50	0.5963	3422.167	5739.175	5739.2	0.0	3422.2	0.0
183	0.8167	142.0495	9.0965	50	0.6558	3318.185	5059.979	5060.0	0.0	3318.2	0.0
184	0.8167	143.8235	9.7700	50	0.6930	2945.203	4249.816	4249.8	0.0	2945.2	0.0
185	0.8167	145.5976	11.1772	50	0.6884	3254.129	4726.881	4726.9	0.0	3254.1	0.0
186	0.8167	147.3716	12.2175	50	0.6753	2936.953	4348.873	4348.9	0.0	2937.0	0.0
187	0.8167	149.1457	13.6247	50	0.6426	2916.820	4539.104	4539.1	0.0	2916.8	0.0
188	0.8167	150.9197	15.0319	50	0.6020	2799.819	4650.543	4650.5	0.0	2799.8	0.0
189	0.8167	152.6938	16.8060	50	0.5626	3044.238	5411.260	5411.3	0.0	3044.2	0.0
190	0.8167	154.4678	18.2132	50	0.5263	2828.728	5374.999	5375.0	0.0	2828.7	0.0
191	0.8167	156.2418	19.6203	50	0.4866	2579.294	5300.140	5300.1	0.0	2579.3	0.0
192	0.8167	158.0159	21.0275	50	0.4480	2296.084	5125.288	5125.3	0.0	2296.1	0.0
193	0.8167	159.7899	22.8016	50	0.4243	2432.817	5734.084	5734.1	0.0	2432.8	0.0
194	0.8167	161.5640	24.2088	50	0.3775	1992.730	5278.708	5278.7	0.0	1992.7	0.0
195	0.8167	163.3380	25.9828	50	0.3635	2217.496	6099.634	6099.6	0.0	2217.5	0.0

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196	0.8167	165.1121	27.3900	50	0.3279	1585.921	4836.655	4836.7	0.0	1585.9	0.0
197	0.8167	166.8861	29.1641	50	0.3173	1769.302	5575.299	5575.3	0.0	1769.3	0.0
198	0.8167	168.6602	30.9381	50	0.3070	1952.520	6359.434	6359.4	0.0	1952.5	0.0
199	0.8167	170.4342	32.3453	50	0.2850	1133.490	3976.747	3976.7	0.0	1133.5	0.0
200	0.8167	172.2082	34.1193	50	0.2762	1256.512	4548.753	4548.8	0.0	1256.5	0.0
201	2.0636	129.6312	6.4148	69	0.3153	2614.337	8292.366	8292.4	0.0	2614.3	0.0
202	2.0636	131.4052	8.2943	64	0.3789	5516.848	14558.516	14558.5	0.0	5516.8	0.0
203	2.0636	133.1793	7.4776	56	0.3795	3734.709	9842.139	9842.1	0.0	3734.7	0.0
204	2.0636	134.9533	8.9704	54	0.4474	6105.853	13646.249	13646.2	0.0	6105.9	0.0
205	2.0636	136.7274	10.2334	52	0.5021	8193.270	16318.243	16318.2	0.0	8193.3	0.0
206	2.0636	138.5014	10.1868	50	0.5526	7137.702	12916.705	12916.7	0.0	7137.7	0.0
207	2.0636	140.2755	9.4237	50	0.6157	4606.056	7481.461	7481.5	0.0	4606.1	0.0
208	2.0636	142.0495	9.8302	50	0.6768	3944.867	5828.953	5829.0	0.0	3944.9	0.0
209	2.0636	143.8235	10.5037	50	0.7180	3511.584	4890.989	4891.0	0.0	3511.6	0.0
210	2.0636	145.5976	11.9109	50	0.7334	4052.291	5525.690	5525.7	0.0	4052.3	0.0
211	2.0636	147.3716	13.3181	50	0.7179	4277.278	5957.850	5957.9	0.0	4277.3	0.0
212	2.0636	149.1457	14.3584	50	0.6951	3748.200	5392.399	5392.4	0.0	3748.2	0.0
213	2.0636	150.9197	15.7656	50	0.6609	3647.198	5518.229	5518.2	0.0	3647.2	0.0
214	2.0636	152.6938	17.1728	50	0.6281	3495.887	5565.387	5565.4	0.0	3495.9	0.0
215	2.0636	154.4678	18.9469	50	0.5925	3788.755	6394.736	6394.7	0.0	3788.8	0.0
216	2.0636	156.2418	20.3540	50	0.5567	3511.780	6308.461	6308.5	0.0	3511.8	0.0
217	2.0636	158.0159	21.7612	50	0.5215	3200.689	6137.862	6137.9	0.0	3200.7	0.0
218	2.0636	159.7899	23.1684	50	0.4787	2799.934	5849.476	5849.5	0.0	2799.9	0.0
219	2.0636	161.5640	24.9425	50	0.4596	3028.321	6588.856	6588.9	0.0	3028.3	0.0
220	2.0636	163.3380	26.3497	50	0.4120	2564.380	6224.295	6224.3	0.0	2564.4	0.0
221	2.0636	165.1121	28.1237	50	0.3985	2778.985	6973.349	6973.3	0.0	2779.0	0.0
222	2.0636	166.8861	29.5309	50	0.3594	2099.049	5841.055	5841.1	0.0	2099.0	0.0
223	2.0636	168.6602	31.3050	50	0.3492	2338.910	6697.061	6697.1	0.0	2338.9	0.0
224	2.0636	170.4342	32.7121	50	0.3148	1486.879	4722.912	4722.9	0.0	1486.9	0.0
225	2.0636	172.2082	34.4862	50	0.3065	1662.001	5423.285	5423.3	0.0	1662.0	0.0
226	3.3105	129.6312	6.4148	69	0.3325	2668.338	8025.482	8025.5	0.0	2668.3	0.0
227	3.3105	131.4052	8.2943	61	0.3889	5260.182	13524.540	13524.5	0.0	5260.2	0.0
228	3.3105	133.1793	7.4776	55	0.3991	3637.983	9114.703	9114.7	0.0	3638.0	0.0
229	3.3105	134.9533	8.9704	53	0.4564	5634.983	12345.852	12345.9	0.0	5635.0	0.0
230	3.3105	136.7274	10.7445	51	0.5294	9093.809	17176.105	17176.1	0.0	9093.8	0.0
231	3.3105	138.5014	11.4822	50	0.5804	9853.464	16976.845	16976.8	0.0	9853.5	0.0
232	3.3105	140.2755	10.8148	50	0.6413	6825.872	10643.870	10643.9	0.0	6825.9	0.0
233	3.3105	142.0495	11.2976	50	0.7020	6292.894	8964.725	8964.7	0.0	6292.9	0.0
234	3.3105	143.8235	11.9711	50	0.7348	5599.400	7620.814	7620.8	0.0	5599.4	0.0
235	3.3105	145.5976	13.0114	50	0.7574	5561.609	7343.451	7343.5	0.0	5561.6	0.0
236	3.3105	147.3716	14.0518	50	0.7502	5065.868	6752.394	6752.4	0.0	5065.9	0.0
237	3.3105	149.1457	15.4590	50	0.7395	5338.910	7219.700	7219.7	0.0	5338.9	0.0
238	3.3105	150.9197	16.4993	50	0.7128	4614.701	6473.654	6473.7	0.0	4614.7	0.0
239	3.3105	152.6938	18.2734	50	0.6775	5113.477	7547.329	7547.3	0.0	5113.5	0.0
240	3.3105	154.4678	19.3137	50	0.6461	4240.766	6563.855	6563.9	0.0	4240.8	0.0
241	3.3105	156.2418	21.0877	50	0.6140	4587.854	7471.939	7471.9	0.0	4587.9	0.0
242	3.3105	158.0159	22.4949	50	0.5834	4245.845	7278.282	7278.3	0.0	4245.8	0.0
243	3.3105	159.7899	23.9021	50	0.5484	3869.295	7055.959	7056.0	0.0	3869.3	0.0
244	3.3105	161.5640	25.3093	50	0.5092	3467.901	6809.837	6809.8	0.0	3467.9	0.0
245	3.3105	163.3380	27.0834	50	0.4876	3671.674	7529.848	7529.8	0.0	3671.7	0.0
246	3.3105	165.1121	28.4906	50	0.4467	3204.894	7174.147	7174.1	0.0	3204.9	0.0
247	3.3105	166.8861	30.2646	50	0.4301	3388.329	7878.883	7878.9	0.0	3388.3	0.0
248	3.3105	168.6602	31.6718	50	0.3903	2680.633	6868.125	6868.1	0.0	2680.6	0.0
249	3.3105	170.4342	33.4458	50	0.3804	2983.936	7844.444	7844.4	0.0	2983.9	0.0
250	3.3105	172.2082	34.8530	50	0.3442	2078.419	6037.896	6037.9	0.0	2078.4	0.0
251	4.5575	129.6312	6.4148	68	0.3492	2669.057	7643.514	7643.5	0.0	2669.1	0.0
252	4.5575	131.4052	8.2943	58	0.4050	5138.301	12687.090	12687.1	0.0	5138.3	0.0
253	4.5575	133.1793	7.4776	53	0.4268	3569.406	8364.073	8364.1	0.0	3569.4	0.0
254	4.5575	134.9533	8.9704	52	0.4843	5375.587	11100.474	11100.5	0.0	5375.6	0.0
255	4.5575	136.7274	10.7445	50	0.5470	8447.991	15445.272	15445.3	0.0	8448.0	0.0
256	4.5575	138.5014	12.5185	50	0.6132	12436.250	20281.564	20281.6	0.0	12436.2	0.0
257	4.5575	140.2755	12.2059	50	0.6711	9723.523	14487.891	14487.9	0.0	9723.5	0.0
258	4.5575	142.0495	12.3981	50	0.7257	8203.873	11304.217	11304.2	0.0	8203.9	0.0
259	4.5575	143.8235	13.0716	50	0.7559	7374.970	9756.022	9756.0	0.0	7375.0	0.0
260	4.5575	145.5976	14.1120	50	0.7767	7377.308	9498.254	9498.3	0.0	7377.3	0.0
261	4.5575	147.3716	15.1523	50	0.7857	7067.774	8995.695	8995.7	0.0	7067.8	0.0
262	4.5575	149.1457	16.1927	50	0.7704	6283.921	8156.784	8156.8	0.0	6283.9	0.0
263	4.5575	150.9197	17.5999	50	0.7554	6459.679	8551.435	8551.4	0.0	6459.7	0.0

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264	4.5575	152.6938	18.6402	50	0.7324	5527.002	7546.024	7546.0	0.0	5527.0	0.0
265	4.5575	154.4678	20.4142	50	0.6964	6100.013	8759.040	8759.0	0.0	6100.0	0.0
266	4.5575	156.2418	21.8214	50	0.6695	5799.868	8662.632	8662.6	0.0	5799.9	0.0
267	4.5575	158.0159	23.2286	50	0.6333	5436.244	8583.991	8584.0	0.0	5436.2	0.0
268	4.5575	159.7899	24.6358	50	0.6022	5025.032	8344.228	8344.2	0.0	5025.0	0.0
269	4.5575	161.5640	26.0430	50	0.5675	4579.813	8070.406	8070.4	0.0	4579.8	0.0
270	4.5575	163.3380	27.4502	50	0.5303	4049.393	7635.620	7635.6	0.0	4049.4	0.0
271	4.5575	165.1121	29.2243	50	0.5129	4358.377	8497.672	8497.7	0.0	4358.4	0.0
272	4.5575	166.8861	30.6315	50	0.4735	3767.231	7956.907	7956.9	0.0	3767.2	0.0
273	4.5575	168.6602	32.4055	50	0.4597	4042.878	8794.082	8794.1	0.0	4042.9	0.0
274	4.5575	170.4342	33.8127	50	0.4191	3331.777	7950.324	7950.3	0.0	3331.8	0.0
275	4.5575	172.2082	35.5867	50	0.4084	3663.241	8969.585	8969.6	0.0	3663.2	0.0
276	5.8044	129.6312	6.4148	67	0.3664	2612.375	7130.570	7130.6	0.0	2612.4	0.0
277	5.8044	131.4052	8.2943	56	0.4269	5025.097	11771.046	11771.0	0.0	5025.1	0.0
278	5.8044	133.1793	7.4776	53	0.4599	3476.691	7559.664	7559.7	0.0	3476.7	0.0
279	5.8044	134.9533	8.9704	51	0.5190	5177.525	9975.729	9975.7	0.0	5177.5	0.0
280	5.8044	136.7274	8.1889	50	0.5798	3247.854	5601.315	5601.3	0.0	3247.9	0.0
281	5.8044	138.5014	8.3733	50	0.6404	2648.775	4136.015	4136.0	0.0	2648.8	0.0
282	5.8044	140.2755	12.9015	50	0.6998	10970.742	15676.431	15676.4	0.0	10970.7	0.0
283	5.8044	142.0495	13.4987	50	0.7518	10482.942	13943.650	13943.7	0.0	10482.9	0.0
284	5.8044	143.8235	14.1722	50	0.7804	9505.174	12179.321	12179.3	0.0	9505.2	0.0
285	5.8044	145.5976	15.2125	50	0.8034	9554.811	11892.955	11893.0	0.0	9554.8	0.0
286	5.8044	147.3716	16.2529	50	0.8113	9257.853	11411.351	11411.4	0.0	9257.9	0.0
287	5.8044	149.1457	17.2932	50	0.8059	8619.156	10695.621	10695.6	0.0	8619.2	0.0
288	5.8044	150.9197	18.3336	50	0.7861	7558.792	9615.273	9615.3	0.0	7558.8	0.0
289	5.8044	152.6938	19.7408	50	0.7666	7639.909	9965.534	9965.5	0.0	7639.9	0.0
290	5.8044	154.4678	20.7811	50	0.7447	6476.307	8696.565	8696.6	0.0	6476.3	0.0
291	5.8044	156.2418	22.5551	50	0.7167	7139.520	9961.148	9961.1	0.0	7139.5	0.0
292	5.8044	158.0159	23.9623	50	0.6868	6766.610	9852.311	9852.3	0.0	6766.6	0.0
293	5.8044	159.7899	25.3695	50	0.6557	6330.728	9655.317	9655.3	0.0	6330.7	0.0
294	5.8044	161.5640	26.7767	50	0.6243	5846.591	9364.519	9364.5	0.0	5846.6	0.0
295	5.8044	163.3380	28.1839	50	0.5891	5330.310	9048.738	9048.7	0.0	5330.3	0.0
296	5.8044	165.1121	29.5911	50	0.5495	4657.433	8475.008	8475.0	0.0	4657.4	0.0
297	5.8044	166.8861	31.3652	50	0.5359	5086.225	9490.499	9490.5	0.0	5086.2	0.0
298	5.8044	168.6602	32.7724	50	0.4991	4497.173	9009.962	9010.0	0.0	4497.2	0.0
299	5.8044	170.4342	34.5464	50	0.4879	4741.257	9718.339	9718.3	0.0	4741.3	0.0
300	5.8044	172.2082	35.9536	50	0.4411	3895.846	8832.684	8832.7	0.0	3895.8	0.0
301	7.0513	129.6312	6.4148	63	0.3839	2515.462	6552.478	6552.5	0.0	2515.5	0.0
302	7.0513	131.4052	8.2943	54	0.4435	4808.705	10843.437	10843.4	0.0	4808.7	0.0
303	7.0513	133.1793	7.3018	52	0.4950	3112.777	6288.484	6288.5	0.0	3112.8	0.0
304	7.0513	134.9533	8.3171	51	0.5638	3930.486	6971.216	6971.2	0.0	3930.5	0.0
305	7.0513	136.7274	8.1889	50	0.6323	2984.961	4720.929	4720.9	0.0	2985.0	0.0
306	7.0513	138.5014	9.4096	50	0.6872	3697.035	5379.877	5379.9	0.0	3697.0	0.0
307	7.0513	140.2755	10.8148	50	0.7274	4614.366	6343.650	6343.7	0.0	4614.4	0.0
308	7.0513	142.0495	14.2324	50	0.7760	11767.053	15163.845	15163.8	0.0	11767.1	0.0
309	7.0513	143.8235	15.2727	50	0.8141	12304.513	15114.269	15114.3	0.0	12304.5	0.0
310	7.0513	145.5976	16.3131	50	0.8285	12113.509	14620.534	14620.5	0.0	12113.5	0.0
311	7.0513	147.3716	17.3534	50	0.8399	11838.069	14094.202	14094.2	0.0	11838.1	0.0
312	7.0513	149.1457	18.3938	50	0.8373	11163.042	13332.452	13332.5	0.0	11163.0	0.0
313	7.0513	150.9197	19.4341	50	0.8240	10181.644	12356.383	12356.4	0.0	10181.6	0.0
314	7.0513	152.6938	20.8413	50	0.8026	10153.161	12650.475	12650.5	0.0	10153.2	0.0
315	7.0513	154.4678	21.8816	50	0.7801	8877.080	11379.480	11379.5	0.0	8877.1	0.0
316	7.0513	156.2418	22.9220	50	0.7536	7458.436	9897.584	9897.6	0.0	7458.4	0.0
317	7.0513	158.0159	24.6960	50	0.7294	8224.640	11275.874	11275.9	0.0	8224.6	0.0
318	7.0513	159.7899	26.1032	50	0.7014	7776.712	11087.364	11087.4	0.0	7776.7	0.0
319	7.0513	161.5640	27.5104	50	0.6714	7266.644	10822.728	10822.7	0.0	7266.6	0.0
320	7.0513	163.3380	28.9176	50	0.6404	6707.776	10474.092	10474.1	0.0	6707.8	0.0
321	7.0513	165.1121	30.3248	50	0.6092	6116.298	10039.709	10039.7	0.0	6116.3	0.0
322	7.0513	166.8861	32.0989	50	0.5904	6521.639	11045.832	11045.8	0.0	6521.6	0.0
323	7.0513	168.6602	33.5060	50	0.5572	5854.442	10506.495	10506.5	0.0	5854.4	0.0
324	7.0513	170.4342	34.9132	50	0.5240	5163.025	9853.220	9853.2	0.0	5163.0	0.0
325	7.0513	172.2082	36.6873	50	0.5098	5479.582	10747.543	10747.5	0.0	5479.6	0.0
326	8.2983	129.6312	6.4148	60	0.3966	2367.008	5968.086	5968.1	0.0	2367.0	0.0
327	8.2983	131.4052	8.2943	55	0.4539	4518.143	9954.538	9954.5	0.0	4518.1	0.0
328	8.2983	133.1793	7.1964	53	0.5257	2789.195	5305.616	5305.6	0.0	2789.2	0.0
329	8.2983	134.9533	6.6019	50	0.6166	1688.487	2738.234	2738.2	0.0	1688.5	0.0
330	8.2983	136.7274	8.0185	50	0.6835	2445.590	3578.250	3578.3	0.0	2445.6	0.0
331	8.2983	138.5014	9.9278	50	0.7307	4040.995	5530.440	5530.4	0.0	4041.0	0.0

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332	8.2983	140.2755	11.1626	50	0.7630	4626.972	6064.108	6064.1	0.0	4627.0	0.0
333	8.2983	142.0495	14.2324	50	0.7900	10184.470	12892.014	12892.0	0.0	10184.5	0.0
334	8.2983	143.8235	15.6396	50	0.8337	12126.098	14544.130	14544.1	0.0	12126.1	0.0
335	8.2983	145.5976	17.0468	50	0.8513	13458.897	15808.927	15808.9	0.0	13458.9	0.0
336	8.2983	147.3716	18.0871	50	0.8651	13189.633	15245.599	15245.6	0.0	13189.6	0.0
337	8.2983	149.1457	19.4943	50	0.8653	14143.185	16344.243	16344.2	0.0	14143.2	0.0
338	8.2983	150.9197	20.1678	50	0.8584	11614.881	13530.340	13530.3	0.0	11614.9	0.0
339	8.2983	152.6938	21.5750	50	0.8401	11808.026	14056.004	14056.0	0.0	11808.0	0.0
340	8.2983	154.4678	22.9822	50	0.8181	11696.855	14297.474	14297.5	0.0	11696.9	0.0
341	8.2983	156.2418	24.0225	50	0.7933	10167.009	12816.747	12816.7	0.0	10167.0	0.0
342	8.2983	158.0159	25.4297	50	0.7681	9805.495	12765.401	12765.4	0.0	9805.5	0.0
343	8.2983	159.7899	26.8369	50	0.7386	9352.376	12661.806	12661.8	0.0	9352.4	0.0
344	8.2983	161.5640	28.2441	50	0.7128	8823.516	12378.143	12378.1	0.0	8823.5	0.0
345	8.2983	163.3380	29.6513	50	0.6852	8237.362	12022.687	12022.7	0.0	8237.4	0.0
346	8.2983	165.1121	31.0585	50	0.6548	7603.840	11612.925	11612.9	0.0	7603.8	0.0
347	8.2983	166.8861	32.4657	50	0.6237	6935.107	11118.450	11118.4	0.0	6935.1	0.0
348	8.2983	168.6602	34.2397	50	0.6065	7404.647	12208.284	12208.3	0.0	7404.6	0.0
349	8.2983	170.4342	35.6469	50	0.5718	6657.875	11644.155	11644.2	0.0	6657.9	0.0
350	8.2983	172.2082	37.0541	50	0.5368	5823.343	10848.727	10848.7	0.0	5823.3	0.0
351	9.5452	129.6312	6.4148	61	0.4014	2177.728	5425.515	5425.5	0.0	2177.7	0.0
352	9.5452	131.4052	5.4224	55	0.4723	1314.759	2783.966	2784.0	0.0	1314.8	0.0
353	9.5452	133.1793	7.1964	53	0.5460	2543.858	4659.232	4659.2	0.0	2543.9	0.0
354	9.5452	134.9533	6.6019	50	0.6732	1458.932	2167.256	2167.3	0.0	1458.9	0.0
355	9.5452	136.7274	8.5296	50	0.7279	2678.514	3679.971	3680.0	0.0	2678.5	0.0
356	9.5452	138.5014	10.1868	50	0.7673	3868.332	5041.322	5041.3	0.0	3868.3	0.0
357	9.5452	140.2755	11.8581	50	0.7974	5280.461	6622.454	6622.5	0.0	5280.5	0.0
358	9.5452	142.0495	13.4987	50	0.8208	6757.681	8233.373	8233.4	0.0	6757.7	0.0
359	9.5452	143.8235	15.6396	50	0.8359	10140.021	12130.902	12130.9	0.0	10140.0	0.0
360	9.5452	145.5976	17.4136	50	0.8635	13096.115	15165.893	15165.9	0.0	13096.1	0.0
361	9.5452	147.3716	18.8208	50	0.8857	14546.700	16424.581	16424.6	0.0	14546.7	0.0
362	9.5452	149.1457	20.2280	50	0.8935	15728.582	17603.651	17603.7	0.0	15728.6	0.0
363	9.5452	150.9197	21.2683	50	0.8887	14753.244	16601.608	16601.6	0.0	14753.2	0.0
364	9.5452	152.6938	22.3087	50	0.8770	13477.182	15366.729	15366.7	0.0	13477.2	0.0
365	9.5452	154.4678	23.7159	50	0.8546	13491.605	15787.650	15787.6	0.0	13491.6	0.0
366	9.5452	156.2418	25.1231	50	0.8323	13294.861	15974.441	15974.4	0.0	13294.9	0.0
367	9.5452	158.0159	26.5303	50	0.8054	12973.538	16107.682	16107.7	0.0	12973.5	0.0
368	9.5452	159.7899	27.9375	50	0.7820	12537.803	16033.828	16033.8	0.0	12537.8	0.0
369	9.5452	161.5640	29.3447	50	0.7582	12001.124	15828.239	15828.2	0.0	12001.1	0.0
370	9.5452	163.3380	30.3850	50	0.7218	9913.233	13734.761	13734.8	0.0	9913.2	0.0
371	9.5452	165.1121	31.7922	50	0.6956	9241.756	13285.211	13285.2	0.0	9241.8	0.0
372	9.5452	166.8861	33.1994	50	0.6677	8529.359	12774.604	12774.6	0.0	8529.4	0.0
373	9.5452	168.6602	34.6066	50	0.6355	7729.875	12162.821	12162.8	0.0	7729.9	0.0
374	9.5452	170.4342	36.3806	50	0.6211	8323.100	13400.516	13400.5	0.0	8323.1	0.0
375	9.5452	172.2082	37.7878	50	0.5913	7492.300	12670.518	12670.5	0.0	7492.3	0.0
376	10.7921	129.6312	4.2016	61	0.3880	652.544	1681.675	1681.7	0.0	652.5	0.0
377	10.7921	131.4052	5.4224	55	0.4750	1149.835	2420.459	2420.5	0.0	1149.8	0.0
378	10.7921	133.1793	7.1964	53	0.5395	2214.798	4105.454	4105.5	0.0	2214.8	0.0
379	10.7921	134.9533	6.6836	50	0.7140	1237.062	1732.475	1732.5	0.0	1237.1	0.0
380	10.7921	136.7274	8.3592	50	0.7601	1995.036	2624.771	2624.8	0.0	1995.0	0.0
381	10.7921	138.5014	9.9278	50	0.7914	2768.898	3498.808	3498.8	0.0	2768.9	0.0
382	10.7921	140.2755	11.8581	50	0.8207	4366.585	5320.694	5320.7	0.0	4366.6	0.0
383	10.7921	142.0495	13.4987	50	0.8401	5658.039	6735.233	6735.2	0.0	5658.0	0.0
384	10.7921	143.8235	15.2727	50	0.8571	7449.236	8691.644	8691.6	0.0	7449.2	0.0
385	10.7921	145.5976	17.0468	50	0.8670	9459.961	10910.937	10910.9	0.0	9460.0	0.0
386	10.7921	147.3716	18.8208	50	0.8886	12174.984	13701.326	13701.3	0.0	12175.0	0.0
387	10.7921	149.1457	20.5949	50	0.9100	15255.270	16764.299	16764.3	0.0	15255.3	0.0
388	10.7921	150.9197	22.3689	50	0.9155	18331.608	20022.708	20022.7	0.0	18331.6	0.0
389	10.7921	152.6938	23.4092	50	0.9074	17001.509	18735.734	18735.7	0.0	17001.5	0.0
390	10.7921	154.4678	24.4496	50	0.8927	15371.251	17219.631	17219.6	0.0	15371.3	0.0
391	10.7921	156.2418	25.8568	50	0.8678	15225.826	17546.169	17546.2	0.0	15225.8	0.0
392	10.7921	158.0159	27.2640	50	0.8453	14942.924	17676.914	17676.9	0.0	14942.9	0.0
393	10.7921	159.7899	28.6712	50	0.8184	14532.010	17757.232	17757.2	0.0	14532.0	0.0
394	10.7921	161.5640	30.0784	50	0.7949	14006.824	17620.275	17620.3	0.0	14006.8	0.0
395	10.7921	163.3380	31.4856	50	0.7712	13382.542	17352.743	17352.7	0.0	13382.5	0.0
396	10.7921	165.1121	32.5259	50	0.7321	11036.170	15074.200	15074.2	0.0	11036.2	0.0
397	10.7921	166.8861	33.9331	50	0.7100	10283.225	14482.543	14482.5	0.0	10283.2	0.0
398	10.7921	168.6602	35.3403	50	0.6831	9484.402	13884.337	13884.3	0.0	9484.4	0.0
399	10.7921	170.4342	37.1143	50	0.6672	10170.182	15243.248	15243.2	0.0	10170.2	0.0

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400	10.7921	172.2082	38.5215	50	0.6395	9269.766	14495.232	14495.2	0.0	9269.8	0.0
401	12.0391	129.6312	5.1238	61	0.3556	909.706	2558.343	2558.3	0.0	909.7	0.0
402	12.0391	131.4052	5.4224	55	0.4395	934.278	2125.914	2125.9	0.0	934.3	0.0
403	12.0391	133.1793	7.1964	53	0.5029	1824.182	3627.677	3627.7	0.0	1824.2	0.0
404	12.0391	134.9533	6.3569	50	0.7087	684.195	965.408	965.4	0.0	684.2	0.0
405	12.0391	136.7274	8.1889	50	0.7524	1304.576	1733.935	1733.9	0.0	1304.6	0.0
406	12.0391	138.5014	9.9278	50	0.7941	2068.827	2605.096	2605.1	0.0	2068.8	0.0
407	12.0391	140.2755	11.5103	50	0.8132	2763.256	3397.925	3397.9	0.0	2763.3	0.0
408	12.0391	142.0495	13.4987	50	0.8384	4464.673	5324.968	5325.0	0.0	4464.7	0.0
409	12.0391	143.8235	15.2727	50	0.8617	6045.143	7015.432	7015.4	0.0	6045.1	0.0
410	12.0391	145.5976	17.0468	50	0.8745	7839.914	8965.392	8965.4	0.0	7839.9	0.0
411	12.0391	147.3716	18.8208	50	0.8793	9849.334	11201.021	11201.0	0.0	9849.3	0.0
412	12.0391	149.1457	20.5949	50	0.8955	12473.166	13928.970	13929.0	0.0	12473.2	0.0
413	12.0391	150.9197	22.3689	50	0.9166	15550.315	16965.017	16965.0	0.0	15550.3	0.0
414	12.0391	152.6938	23.7761	50	0.9231	16385.811	17751.682	17751.7	0.0	16385.8	0.0
415	12.0391	154.4678	25.5501	50	0.9205	19191.152	20849.630	20849.6	0.0	19191.2	0.0
416	12.0391	156.2418	26.9573	50	0.9023	19145.685	21219.670	21219.7	0.0	19145.7	0.0
417	12.0391	158.0159	27.9977	50	0.8797	17001.937	19326.057	19326.1	0.0	17001.9	0.0
418	12.0391	159.7899	29.7717	50	0.8576	18579.409	21664.697	21664.7	0.0	18579.4	0.0
419	12.0391	161.5640	30.8121	50	0.8302	16127.781	19425.310	19425.3	0.0	16127.8	0.0
420	12.0391	163.3380	32.2193	50	0.8068	15512.368	19225.838	19225.8	0.0	15512.4	0.0
421	12.0391	165.1121	33.6265	50	0.7834	14804.132	18897.738	18897.7	0.0	14804.1	0.0
422	12.0391	166.8861	34.6668	50	0.7479	12191.779	16301.376	16301.4	0.0	12191.8	0.0
423	12.0391	168.6602	36.0740	50	0.7173	11351.801	15825.883	15825.9	0.0	11351.8	0.0
424	12.0391	170.4342	37.8480	50	0.7020	12201.856	17380.856	17380.9	0.0	12201.9	0.0
425	12.0391	172.2082	39.2552	50	0.6773	11235.024	16588.785	16588.8	0.0	11235.0	0.0
426	13.2860	129.6312	4.5705	61	0.2920	490.954	1681.370	1681.4	0.0	491.0	0.0
427	13.2860	131.4052	5.8053	55	0.3665	873.459	2383.568	2383.6	0.0	873.5	0.0
428	13.2860	133.1793	7.1964	53	0.4370	1407.885	3221.417	3221.4	0.0	1407.9	0.0
429	13.2860	134.9533	6.2752	50	0.5798	313.441	540.619	540.6	0.0	313.4	0.0
430	13.2860	136.7274	8.0185	50	0.6799	662.741	974.773	974.8	0.0	662.7	0.0
431	13.2860	138.5014	9.6687	50	0.7176	1057.931	1474.181	1474.2	0.0	1057.9	0.0
432	13.2860	140.2755	11.5103	50	0.7755	1859.587	2397.824	2397.8	0.0	1859.6	0.0
433	13.2860	142.0495	13.1318	50	0.7953	2509.336	3155.020	3155.0	0.0	2509.3	0.0
434	13.2860	143.8235	14.9059	50	0.8242	3626.600	4400.148	4400.1	0.0	3626.6	0.0
435	13.2860	145.5976	16.6799	50	0.8485	5002.936	5895.954	5896.0	0.0	5002.9	0.0
436	13.2860	147.3716	18.4540	50	0.8699	6583.488	7567.814	7567.8	0.0	6583.5	0.0
437	13.2860	149.1457	20.2280	50	0.8853	8376.925	9462.293	9462.3	0.0	8376.9	0.0
438	13.2860	150.9197	22.0020	50	0.8881	10302.003	11600.377	11600.4	0.0	10302.0	0.0
439	13.2860	152.6938	23.7761	50	0.9126	13212.511	14477.791	14477.8	0.0	13212.5	0.0
440	13.2860	154.4678	25.5501	50	0.9274	16123.122	17385.422	17385.4	0.0	16123.1	0.0
441	13.2860	156.2418	27.3242	50	0.9293	19039.250	20487.122	20487.1	0.0	19039.3	0.0
442	13.2860	158.0159	29.0982	50	0.9130	21268.860	23295.035	23295.0	0.0	21268.9	0.0
443	13.2860	159.7899	30.1386	50	0.8906	18812.935	21124.433	21124.4	0.0	18812.9	0.0
444	13.2860	161.5640	31.9126	50	0.8696	20514.205	23590.030	23590.0	0.0	20514.2	0.0
445	13.2860	163.3380	32.9530	50	0.8411	17754.816	21108.273	21108.3	0.0	17754.8	0.0
446	13.2860	165.1121	34.3601	50	0.8180	17055.649	20850.010	20850.0	0.0	17055.6	0.0
447	13.2860	166.8861	35.7673	50	0.7947	16252.552	20451.834	20451.8	0.0	16252.6	0.0
448	13.2860	168.6602	37.1745	50	0.7666	15366.351	20044.921	20044.9	0.0	15366.4	0.0
449	13.2860	170.4342	38.5817	50	0.7427	14405.819	19396.593	19396.6	0.0	14405.8	0.0
450	13.2860	172.2082	39.9889	50	0.7136	13391.795	18767.275	18767.3	0.0	13391.8	0.0
451	14.5329	129.6312	3.8328	61	0.1859	166.734	896.685	896.7	0.0	166.7	0.0
452	14.5329	131.4052	nicht berechnet								
453	14.5329	133.1793	nicht berechnet								
454	14.5329	134.9533	8.2354	50	0.4060	1133.635	2791.951	2792.0	0.0	1133.6	0.0
455	14.5329	136.7274	8.1889	50	0.5096	321.305	630.475	630.5	0.0	321.3	0.0
456	14.5329	138.5014	9.9278	50	0.6337	688.487	1086.402	1086.4	0.0	688.5	0.0
457	14.5329	140.2755	11.5103	50	0.6659	1001.648	1504.268	1504.3	0.0	1001.6	0.0
458	14.5329	142.0495	13.4987	50	0.7666	2085.008	2719.830	2719.8	0.0	2085.0	0.0
459	14.5329	143.8235	15.2727	50	0.8063	3113.036	3860.987	3861.0	0.0	3113.0	0.0
460	14.5329	145.5976	17.0468	50	0.8360	4396.845	5259.331	5259.3	0.0	4396.8	0.0
461	14.5329	147.3716	18.8208	50	0.8670	5943.113	6854.793	6854.8	0.0	5943.1	0.0
462	14.5329	149.1457	20.2280	50	0.8616	6256.846	7261.751	7261.8	0.0	6256.8	0.0
463	14.5329	150.9197	22.0020	50	0.8771	8004.733	9125.926	9125.9	0.0	8004.7	0.0
464	14.5329	152.6938	23.7761	50	0.8844	9911.847	11207.755	11207.8	0.0	9911.8	0.0
465	14.5329	154.4678	25.5501	50	0.9036	12553.837	13893.545	13893.5	0.0	12553.8	0.0
466	14.5329	156.2418	27.3242	50	0.9234	15467.352	16750.870	16750.9	0.0	15467.4	0.0
467	14.5329	158.0159	29.0982	50	0.9260	18383.812	19851.993	19852.0	0.0	18383.8	0.0

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468	14.5329	159.7899	30.8723	50	0.9201	21071.427	22902.419	22902.4	0.0	21071.4	0.0
469	14.5329	161.5640	32.6463	50	0.8999	23032.718	25593.879	25593.9	0.0	23032.7	0.0
470	14.5329	163.3380	34.0535	50	0.8802	22481.912	25540.894	25540.9	0.0	22481.9	0.0
471	14.5329	165.1121	35.0938	50	0.8512	19416.260	22809.446	22809.4	0.0	19416.3	0.0
472	14.5329	166.8861	36.5010	50	0.8284	18623.204	22482.268	22482.3	0.0	18623.2	0.0
473	14.5329	168.6602	37.9082	50	0.8051	17726.897	22017.590	22017.6	0.0	17726.9	0.0
474	14.5329	170.4342	39.3154	50	0.7772	16754.144	21557.674	21557.7	0.0	16754.1	0.0
475	14.5329	172.2082	40.7226	50	0.7534	15706.527	20848.460	20848.5	0.0	15706.5	0.0
476	15.7799	129.6312	nicht berechnet								
477	15.7799	131.4052	nicht berechnet								
478	15.7799	133.1793	nicht berechnet								
479	15.7799	134.9533	7.5820	50	0.1765	237.122	1343.830	1343.8	0.0	237.1	0.0
480	15.7799	136.7274	8.5296	50	0.2544	94.040	369.682	369.7	0.0	94.0	0.0
481	15.7799	138.5014	10.1868	50	0.4392	314.405	715.898	715.9	0.0	314.4	0.0
482	15.7799	140.2755	11.8581	50	0.5645	638.133	1130.458	1130.5	0.0	638.1	0.0
483	15.7799	142.0495	13.4987	50	0.6227	1018.495	1635.572	1635.6	0.0	1018.5	0.0
484	15.7799	143.8235	15.2727	50	0.7034	1768.171	2513.696	2513.7	0.0	1768.2	0.0
485	15.7799	145.5976	17.0468	50	0.7600	2744.135	3610.694	3610.7	0.0	2744.1	0.0
486	15.7799	147.3716	18.8208	50	0.8012	3971.690	4957.231	4957.2	0.0	3971.7	0.0
487	15.7799	149.1457	20.5949	50	0.8412	5468.830	6501.520	6501.5	0.0	5468.8	0.0
488	15.7799	150.9197	22.3689	50	0.8686	7168.873	8252.956	8253.0	0.0	7168.9	0.0
489	15.7799	152.6938	24.1429	50	0.8848	9080.986	10262.875	10262.9	0.0	9081.0	0.0
490	15.7799	154.4678	25.9170	50	0.8924	11131.501	12473.817	12473.8	0.0	11131.5	0.0
491	15.7799	156.2418	27.6910	50	0.9136	14069.856	15401.287	15401.3	0.0	14069.9	0.0
492	15.7799	158.0159	29.4651	50	0.9322	17151.208	18399.449	18399.4	0.0	17151.2	0.0
493	15.7799	159.7899	31.2391	50	0.9340	20236.598	21666.602	21666.6	0.0	20236.6	0.0
494	15.7799	161.5640	33.0132	50	0.9274	23035.370	24839.715	24839.7	0.0	23035.4	0.0
495	15.7799	163.3380	34.7872	50	0.9085	25130.643	27660.958	27661.0	0.0	25130.6	0.0
496	15.7799	165.1121	36.1944	50	0.8892	24478.611	27527.361	27527.4	0.0	24478.6	0.0
497	15.7799	166.8861	37.2347	50	0.8606	21097.854	24514.600	24514.6	0.0	21097.9	0.0
498	15.7799	168.6602	38.6419	50	0.8379	20209.017	24119.382	24119.4	0.0	20209.0	0.0
499	15.7799	170.4342	40.0491	50	0.8149	19230.497	23599.043	23599.0	0.0	19230.5	0.0
500	15.7799	172.2082	41.4563	50	0.7869	18163.636	23081.149	23081.1	0.0	18163.6	0.0
501	17.0268	129.6312	nicht berechnet								
502	17.0268	131.4052	nicht berechnet								
503	17.0268	133.1793	nicht berechnet								
504	17.0268	134.9533	6.9286	50	0.0001	0.000	421.545	421.5	0.0	0.0	0.0
505	17.0268	136.7274	9.0407	50	0.0311	4.816	154.925	154.9	0.0	4.8	0.0
506	17.0268	138.5014	10.4459	50	0.0542	9.143	168.788	168.8	0.0	9.1	0.0
507	17.0268	140.2755	12.2059	50	0.3585	272.648	760.488	760.5	0.0	272.6	0.0
508	17.0268	142.0495	13.8655	50	0.5028	598.189	1189.732	1189.7	0.0	598.2	0.0
509	17.0268	143.8235	15.6396	50	0.6143	1217.474	1981.845	1981.8	0.0	1217.5	0.0
510	17.0268	145.5976	17.4136	50	0.7003	2085.314	2977.874	2977.9	0.0	2085.3	0.0
511	17.0268	147.3716	19.1877	50	0.7597	3195.631	4206.195	4206.2	0.0	3195.6	0.0
512	17.0268	149.1457	20.5949	50	0.7443	3324.914	4467.123	4467.1	0.0	3324.9	0.0
513	17.0268	150.9197	22.3689	50	0.7897	4741.239	6003.949	6003.9	0.0	4741.2	0.0
514	17.0268	152.6938	24.1429	50	0.8363	6377.939	7626.321	7626.3	0.0	6377.9	0.0
515	17.0268	154.4678	25.9170	50	0.8605	8216.252	9547.854	9547.9	0.0	8216.3	0.0
516	17.0268	156.2418	27.6910	50	0.8778	10234.405	11658.984	11659.0	0.0	10234.4	0.0
517	17.0268	158.0159	29.4651	50	0.8959	12780.070	14265.304	14265.3	0.0	12780.1	0.0
518	17.0268	159.7899	31.2391	50	0.9127	15863.021	17380.486	17380.5	0.0	15863.0	0.0
519	17.0268	161.5640	33.0132	50	0.9251	18939.417	20473.470	20473.5	0.0	18939.4	0.0
520	17.0268	163.3380	34.7872	50	0.9272	22028.157	23756.631	23756.6	0.0	22028.2	0.0
521	17.0268	165.1121	36.5612	50	0.9145	24409.091	26691.311	26691.3	0.0	24409.1	0.0
522	17.0268	166.8861	38.3353	50	0.8973	26505.527	29539.559	29539.6	0.0	26505.5	0.0
523	17.0268	168.6602	39.3756	50	0.8692	22799.001	26230.758	26230.8	0.0	22799.0	0.0
524	17.0268	170.4342	40.7828	50	0.8467	21821.413	25773.439	25773.4	0.0	21821.4	0.0
525	17.0268	172.2082	42.1900	50	0.8239	20753.680	25189.296	25189.3	0.0	20753.7	0.0
526	18.2737	129.6312	nicht berechnet								
527	18.2737	131.4052	nicht berechnet								
528	18.2737	133.1793	nicht berechnet								
529	18.2737	134.9533	6.4386	50	0.0001	0.000	116.241	116.2	0.0	0.0	0.0
530	18.2737	136.7274	8.1889	50	0.0001	0.000	142.847	142.8	0.0	0.0	0.0
531	18.2737	138.5014	11.2231	50	0.0491	12.888	262.498	262.5	0.0	12.9	0.0
532	18.2737	140.2755	nicht berechnet								
533	18.2737	142.0495	14.2324	50	0.2665	196.675	738.122	738.1	0.0	196.7	0.0
534	18.2737	143.8235	16.0064	50	0.4887	691.891	1415.736	1415.7	0.0	691.9	0.0
535	18.2737	145.5976	17.7805	50	0.6048	1412.110	2334.973	2335.0	0.0	1412.1	0.0

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536	18.2737	147.3716	19.1877	50	0.5946	1470.416	2473.034	2473.0	0.0	1470.4	0.0
537	18.2737	149.1457	20.9617	50	0.6804	2475.533	3638.446	3638.4	0.0	2475.5	0.0
538	18.2737	150.9197	22.7357	50	0.7417	3747.997	5053.160	5053.2	0.0	3748.0	0.0
539	18.2737	152.6938	24.5098	50	0.7903	5311.342	6720.506	6720.5	0.0	5311.3	0.0
540	18.2737	154.4678	26.2838	50	0.8380	7096.313	8467.971	8468.0	0.0	7096.3	0.0
541	18.2737	156.2418	28.0579	50	0.8634	9089.431	10527.504	10527.5	0.0	9089.4	0.0
542	18.2737	158.0159	29.8319	50	0.8819	11256.208	12763.853	12763.9	0.0	11256.2	0.0
543	18.2737	159.7899	31.6060	50	0.9020	14045.202	15572.040	15572.0	0.0	14045.2	0.0
544	18.2737	161.5640	33.0132	50	0.8800	13727.951	15600.620	15600.6	0.0	13728.0	0.0
545	18.2737	163.3380	34.7872	50	0.8982	16768.553	18668.611	18668.6	0.0	16768.6	0.0
546	18.2737	165.1121	36.5612	50	0.9084	19814.959	21813.492	21813.5	0.0	19815.0	0.0
547	18.2737	166.8861	38.3353	50	0.9097	22852.347	25120.965	25121.0	0.0	22852.3	0.0
548	18.2737	168.6602	40.1093	50	0.9011	25480.326	28277.871	28277.9	0.0	25480.3	0.0
549	18.2737	170.4342	41.5165	50	0.8809	24515.514	27828.585	27828.6	0.0	24515.5	0.0
550	18.2737	172.2082	42.9237	50	0.8549	23452.131	27432.825	27432.8	0.0	23452.1	0.0
551	19.5207	129.6312	nicht berechnet								
552	19.5207	131.4052	nicht berechnet								
553	19.5207	133.1793	nicht berechnet								
554	19.5207	134.9533	nicht berechnet								
555	19.5207	136.7274	nicht berechnet								
556	19.5207	138.5014	nicht berechnet								
557	19.5207	140.2755	nicht berechnet								
558	19.5207	142.0495	nicht berechnet								
559	19.5207	143.8235	16.3733	50	0.2557	215.119	841.273	841.3	0.0	215.1	0.0
560	19.5207	145.5976	18.1473	50	0.4739	777.476	1640.708	1640.7	0.0	777.5	0.0
561	19.5207	147.3716	19.5545	50	0.4634	793.993	1713.364	1713.4	0.0	794.0	0.0
562	19.5207	149.1457	21.3286	50	0.5846	1639.258	2804.011	2804.0	0.0	1639.3	0.0
563	19.5207	150.9197	23.1026	50	0.6738	2758.616	4093.911	4093.9	0.0	2758.6	0.0
564	19.5207	152.6938	24.8766	50	0.7381	4165.541	5643.755	5643.8	0.0	4165.5	0.0
565	19.5207	154.4678	26.6507	50	0.7959	5876.804	7383.416	7383.4	0.0	5876.8	0.0
566	19.5207	156.2418	28.0579	50	0.7794	5876.855	7539.992	7540.0	0.0	5876.9	0.0
567	19.5207	158.0159	29.8319	50	0.8235	7762.171	9425.453	9425.5	0.0	7762.2	0.0
568	19.5207	159.7899	31.6060	50	0.8509	9862.676	11591.475	11591.5	0.0	9862.7	0.0
569	19.5207	161.5640	33.3800	50	0.8656	12064.492	13937.554	13937.6	0.0	12064.5	0.0
570	19.5207	163.3380	35.1540	50	0.8840	14868.840	16820.388	16820.4	0.0	14868.8	0.0
571	19.5207	165.1121	36.9281	50	0.9021	18078.326	20040.580	20040.6	0.0	18078.3	0.0
572	19.5207	166.8861	38.7021	50	0.9126	21292.277	23331.345	23331.3	0.0	21292.3	0.0
573	19.5207	168.6602	40.4762	50	0.9144	24503.278	26796.917	26796.9	0.0	24503.3	0.0
574	19.5207	170.4342	42.2502	50	0.9070	27312.177	30113.838	30113.8	0.0	27312.2	0.0
575	19.5207	172.2082	43.6574	50	0.8873	26248.887	29581.616	29581.6	0.0	26248.9	0.0

Ungünstigster Gleitkreis

Nr	xm	ym	Radius	Lamellen	mue	Zähler	Nenner	M(Ti)	M(R)	M(Gi)	M(S)
[-]	[m]	[m]	[m]	[-]	[-]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]
493	15.7799	159.7899	31.2391	50	0.9340	20236.598	21666.602	21666.6	0.0	20236.6	0.0