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LAMPIRAN

Lampiran 1:

Tabel konduktivitas termal beberapa bahan kolektor surya tertentu:

Bahan	Konduktivitas termal (k), (W/mK)
Tembaga	385.0
Aluminium	211.0
Timah Putih	66.0
Baja, 1% Karbon	45.0
Baja tahan karat	16.0
Kaca	1.05
ABS (Akrilonitril-Butadien-Stiren)	0.27
Polikarbonat	0.2
Karet alam 30 durometer	0.14
Karet alam 70 durometer	0.17
Isolasi papan kaca serat	0.043

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Lampiran 2:

Tabel absorpsivitas untuk setiap angle of incident :

Incident angle	Absorbance for flat black paint
0	0.96
10	0.96
20	0.96
30	0.95
40	0.94
50	0.92
60	0.88
70	0.82
80	0.67
90	0.00

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Lampiran 3:

Tabel properties of miscellaneous material

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APPENDIX 1

TABLE A-8

Properties of miscellaneous materials
(Values are at 300 K unless indicated otherwise)

Material	Density, ρ kg/m ³	Thermal Conductivity, k W/m-K	Specific Heat, c_p J/kg-K	Material	Density, ρ kg/m ³	Thermal Conductivity, k W/m-K	Specific Heat, c_p J/kg-K
Asphalt	2115	0.062	920	Ice			
Bakelite	1300	1.4	1465	273 K	920	1.88	2040
Brick, refractory				253 K	922	2.03	1945
Chrome brick				173 K	928	3.49	1460
473 K	3010	2.3	835	Leather, sole	998	0.159	—
823 K	—	2.5	—	Linoleum	535	0.081	—
1173 K	—	2.0	—		1180	0.186	—
Fire clay, burnt				Mica	2900	0.523	—
1600 K				Paper	930	0.180	1340
773 K	2050	1.0	960	Plastics			
1073 K	—	1.1	—	Plexiglass	1190	0.19	1465
1373 K	—	1.1	—	Teflon			
Fire clay, burnt				300 K	2200	0.35	1050
1725 K				400 K	—	0.45	—
773 K	2325	1.3	960	Lexan	1200	0.19	1260
1073 K	—	1.4	—	Nylon	1145	0.29	—
1373 K	—	1.4	—	Polypropylene	910	0.12	1925
Fire clay brick				Polyester	1395	0.15	1170
478 K	2645	1.0	960	PVC, vinyl	1470	0.1	840
922 K	—	1.5	—	Porcelain	2300	1.5	—
1478 K	—	1.8	—	Rubber, natural	1150	0.28	—
Magnesite				Rubber, vulcanized			
478 K	—	3.8	1130	Soft	1100	0.13	2010
922 K	—	2.8	—	Hard	1190	0.16	—
1478 K	—	1.9	—	Sand	1515	0.2–1.0	800
Chicken meat, white (74.4% water content)				Snow, fresh	100	0.60	—
198 K	—	1.60	—	Snow, 273 K	500	2.2	—
233 K	—	1.49	—	Soil, dry	1500	1.0	1900
253 K	—	1.35	—	Soil, wet	1900	2.0	2200
273 K	—	0.48	—	Sugar	1600	0.58	—
293 K	—	0.49	—	Tissue, human			
Clay, dry	1550	0.930	—	Skin	—	0.37	—
Clay, wet	1495	1.675	—	Fat layer	—	0.2	—
Coal, anthracite	1350	0.26	1260	Muscle	—	0.41	—
Concrete (stone mix)	2300	1.4	880	Vaseline	—	0.17	—
Cork	86	0.048	2030	Wood, cross-grain			
Cotton	80	0.06	1300	Balsa	140	0.055	—
Fat	—	0.17	—	Fir	415	0.11	2720
Glass				Oak	545	0.17	2385
Window	2800	0.7	750	White pine	435	0.11	—
Pyrex	2225	1–1.4	835	Yellow pine	640	0.15	2805
Crown	2500	1.05	—	Wood, radial			
Lead	3400	0.85	—	Oak	545	0.19	2385
				Fir	420	0.14	2720
				Wool, ship	145	0.05	—

Source: Compiled from various sources.

Lampiran 4:
Tabel properties of insulating material

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APPENDIX 1

TABLE A-6

Properties of insulating materials
(at a mean temperature of 24°C)

Material	Thickness, L mm	Density, ρ kg/m ³	Thermal Conductivity, k W/m·K	Specific Heat, c_p kJ/kg·K	R -value (for listed thickness, L), K·m ² /W
Blanket and Batt					
Mineral fiber (fibrous form processed from rock, slag, or glass)	50 to 70 mm	4.8–32	—	0.71–0.96	1.23
	75 to 90 mm	4.8–32	—	0.71–0.96	1.94
	135 to 165 mm	4.8–32	—	0.71–0.96	3.32
Board and Slab					
Cellular glass		136	0.055	1.0	—
Glass fiber (organic bonded)		64–144	0.036	0.96	—
Expanded polystyrene (molded beads)		16	0.040	1.2	—
Expanded polyurethane (R -11 expanded)		24	0.023	1.6	—
Expanded perlite (organic bonded)		16	0.052	1.26	—
Expanded rubber (rigid)		72	0.032	1.68	—
Mineral fiber with resin binder		240	0.042	0.71	—
Cork		120	0.039	1.80	—
Sprayed or Formed in Place					
Polyurethane foam		24–40	0.023–0.026	—	—
Glass fiber		56–72	0.038–0.039	—	—
Urethane, two-part mixture (rigid foam)		70	0.026	1.045	—
Mineral wool granules with asbestos/ inorganic binders (sprayed)		190	0.046	—	—
Loose Fill					
Mineral fiber (rock, slag, or glass)	–75 to 125 mm	9.6–32	—	0.71	1.94
	–165 to 222 mm	9.6–32	—	0.71	3.35
	–191 to 254 mm	—	—	0.71	3.87
	–185 mm	—	—	0.71	5.28
Silica aerogel		122	0.025	—	—
Vermiculite (expanded)		122	0.068	—	—
Perlite, expanded		32–66	0.039–0.045	1.09	—
Sawdust or shavings		128–240	0.065	1.38	—
Cellulosic insulation (milled paper or wood pulp)		37–51	0.039–0.046	—	—
Roof Insulation					
Cellular glass	—	144	0.058	1.0	—
Preformed, for use above deck	13 mm	—	—	1.0	0.24
	25 mm	—	—	2.1	0.49
	50 mm	—	—	3.9	0.93
Reflective Insulation					
Silica powder (evacuated)		160	0.0017	—	—
Aluminum foil separating fluffy glass mats; 10–12 layers (evacuated); for cryogenic applications (150 K)		40	0.00016	—	—
Aluminum foil and glass paper laminate; 75–150 layers (evacuated); for cryogenic applications (150 K)		120	0.000017	—	—

Lampiran 5:
Tabel properties of air at 1 atm pressure

TABLE A-9
 Properties of air at 1 atm pressure

Temp. <i>T</i> , °C	Density ρ , kg/m ³	Specific Heat c_p J/kg·K	Thermal Conductivity k , W/m·K	Thermal Diffusivity α , m ² /s	Dynamic Viscosity μ , kg/m·s	Kinematic Viscosity ν , m ² /s	Prandtl Number Pr
-150	2.866	983	0.01171	4.158×10^{-6}	8.636×10^{-6}	3.013×10^{-6}	0.7246
-100	2.038	966	0.01582	8.036×10^{-6}	1.189×10^{-5}	5.837×10^{-6}	0.7263
-50	1.582	999	0.01979	1.252×10^{-5}	1.474×10^{-5}	9.319×10^{-6}	0.7440
-40	1.514	1002	0.02057	1.356×10^{-5}	1.527×10^{-5}	1.008×10^{-5}	0.7436
-30	1.451	1004	0.02134	1.465×10^{-5}	1.579×10^{-5}	1.087×10^{-5}	0.7425
-20	1.394	1005	0.02211	1.578×10^{-5}	1.630×10^{-5}	1.169×10^{-5}	0.7408
-10	1.341	1006	0.02288	1.696×10^{-5}	1.680×10^{-5}	1.252×10^{-5}	0.7387
0	1.292	1006	0.02364	1.818×10^{-5}	1.729×10^{-5}	1.338×10^{-5}	0.7362
5	1.269	1006	0.02401	1.880×10^{-5}	1.754×10^{-5}	1.382×10^{-5}	0.7350
10	1.246	1006	0.02439	1.944×10^{-5}	1.778×10^{-5}	1.426×10^{-5}	0.7336
15	1.225	1007	0.02476	2.009×10^{-5}	1.802×10^{-5}	1.470×10^{-5}	0.7323
20	1.204	1007	0.02514	2.074×10^{-5}	1.825×10^{-5}	1.516×10^{-5}	0.7309
25	1.184	1007	0.02551	2.141×10^{-5}	1.849×10^{-5}	1.562×10^{-5}	0.7296
30	1.164	1007	0.02588	2.208×10^{-5}	1.872×10^{-5}	1.608×10^{-5}	0.7282
35	1.145	1007	0.02625	2.277×10^{-5}	1.895×10^{-5}	1.655×10^{-5}	0.7268
40	1.127	1007	0.02662	2.346×10^{-5}	1.918×10^{-5}	1.702×10^{-5}	0.7255
45	1.109	1007	0.02699	2.416×10^{-5}	1.941×10^{-5}	1.750×10^{-5}	0.7241
50	1.092	1007	0.02735	2.487×10^{-5}	1.963×10^{-5}	1.798×10^{-5}	0.7228
60	1.059	1007	0.02808	2.632×10^{-5}	2.008×10^{-5}	1.896×10^{-5}	0.7202
70	1.028	1007	0.02881	2.780×10^{-5}	2.052×10^{-5}	1.995×10^{-5}	0.7177
80	0.9994	1008	0.02953	2.931×10^{-5}	2.096×10^{-5}	2.097×10^{-5}	0.7154
90	0.9718	1008	0.03024	3.086×10^{-5}	2.139×10^{-5}	2.201×10^{-5}	0.7132
100	0.9458	1009	0.03095	3.243×10^{-5}	2.181×10^{-5}	2.306×10^{-5}	0.7111
120	0.8977	1011	0.03235	3.565×10^{-5}	2.264×10^{-5}	2.522×10^{-5}	0.7073
140	0.8542	1013	0.03374	3.898×10^{-5}	2.345×10^{-5}	2.745×10^{-5}	0.7041
160	0.8148	1016	0.03511	4.241×10^{-5}	2.420×10^{-5}	2.975×10^{-5}	0.7014
180	0.7788	1019	0.03646	4.593×10^{-5}	2.504×10^{-5}	3.212×10^{-5}	0.6992
200	0.7459	1023	0.03779	4.954×10^{-5}	2.577×10^{-5}	3.455×10^{-5}	0.6974
250	0.6746	1033	0.04104	5.890×10^{-5}	2.760×10^{-5}	4.091×10^{-5}	0.6946
300	0.6158	1044	0.04418	6.871×10^{-5}	2.934×10^{-5}	4.765×10^{-5}	0.6935
350	0.5664	1056	0.04721	7.892×10^{-5}	3.101×10^{-5}	5.475×10^{-5}	0.6937
400	0.5243	1069	0.05015	8.951×10^{-5}	3.261×10^{-5}	6.219×10^{-5}	0.6948
450	0.4880	1081	0.05298	1.004×10^{-4}	3.415×10^{-5}	6.997×10^{-5}	0.6965
500	0.4565	1093	0.05572	1.117×10^{-4}	3.563×10^{-5}	7.806×10^{-5}	0.6986
600	0.4042	1115	0.06093	1.352×10^{-4}	3.846×10^{-5}	9.515×10^{-5}	0.7037
700	0.3627	1135	0.06581	1.598×10^{-4}	4.111×10^{-5}	1.133×10^{-4}	0.7092
800	0.3289	1153	0.07037	1.855×10^{-4}	4.362×10^{-5}	1.326×10^{-4}	0.7149
900	0.3008	1169	0.07465	2.122×10^{-4}	4.600×10^{-5}	1.529×10^{-4}	0.7206
1000	0.2772	1184	0.07868	2.398×10^{-4}	4.826×10^{-5}	1.741×10^{-4}	0.7260
1500	0.1990	1234	0.09599	3.908×10^{-4}	5.817×10^{-5}	2.922×10^{-4}	0.7478
2000	0.1553	1264	0.11113	5.664×10^{-4}	6.630×10^{-5}	4.270×10^{-4}	0.7539

Note: For ideal gases, the properties c_p , k , μ , and Pr are independent of pressure. The properties ρ , ν , and α at a pressure P (in atm) other than 1 atm are determined by multiplying the values of ρ at the given temperature by P and by dividing ν and α by P .

Source: Data generated from the EES software developed by S. A. Klein and F. L. Alvarado. Original sources: Keenan, Chao, Keyes, Gas Tables, Wiley, 198; and Thermophysical Properties of Matter, Vol. 3: Thermal Conductivity, Y. S. Touloukian, P. E. Liley, S. C. Saxena, Vol. 11: Viscosity, Y. S. Touloukian, S. C. Saxena, and P. Hestermann, IFI/Plenum, NY, 1970, ISBN 0-306067020-8.

Lampiran 6:
Tabel properties of saturated water

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APPENDIX 1

TABLE A-9

Properties of saturated water

Temp. <i>T</i> , °C	Saturation Pressure <i>P</i> _{sat} , kPa	Density ρ , kg/m ³		Enthalpy of Vaporization <i>h</i> _{fg} , kJ/kg	Specific Heat <i>c</i> _p , J/kg·K		Thermal Conductivity <i>k</i> , W/m·K		Dynamic Viscosity μ , kg/m·s		Prandtl Number Pr		Volume Expansion Coefficient β , 1/K
		Liquid	Vapor		Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	
0.01	0.6113	999.8	0.0048	2501	4217	1854	0.561	0.0171	1.792 × 10 ⁻³	0.922 × 10 ⁻⁵	13.5	1.00	-0.068 × 10 ⁻³
5	0.8721	999.9	0.0068	2490	4205	1857	0.571	0.0173	1.519 × 10 ⁻³	0.934 × 10 ⁻⁵	11.2	1.00	0.015 × 10 ⁻³
10	1.2276	999.7	0.0094	2478	4194	1862	0.580	0.0176	1.307 × 10 ⁻³	0.946 × 10 ⁻⁵	9.45	1.00	0.733 × 10 ⁻³
15	1.7051	999.1	0.0128	2466	4185	1863	0.589	0.0179	1.138 × 10 ⁻³	0.959 × 10 ⁻⁵	8.09	1.00	0.138 × 10 ⁻³
20	2.339	998.0	0.0173	2454	4182	1867	0.598	0.0182	1.002 × 10 ⁻³	0.973 × 10 ⁻⁵	7.01	1.00	0.195 × 10 ⁻³
25	3.169	997.0	0.0231	2442	4180	1870	0.607	0.0186	0.891 × 10 ⁻³	0.987 × 10 ⁻⁵	6.14	1.00	0.247 × 10 ⁻³
30	4.246	996.0	0.0304	2431	4178	1875	0.615	0.0189	0.798 × 10 ⁻³	1.001 × 10 ⁻⁵	5.42	1.00	0.294 × 10 ⁻³
35	5.628	994.0	0.0397	2419	4178	1880	0.623	0.0192	0.720 × 10 ⁻³	1.016 × 10 ⁻⁵	4.83	1.00	0.337 × 10 ⁻³
40	7.384	992.1	0.0512	2407	4179	1885	0.631	0.0196	0.653 × 10 ⁻³	1.031 × 10 ⁻⁵	4.32	1.00	0.377 × 10 ⁻³
45	9.593	990.1	0.0655	2395	4180	1892	0.637	0.0200	0.596 × 10 ⁻³	1.046 × 10 ⁻⁵	3.91	1.00	0.415 × 10 ⁻³
50	12.35	988.1	0.0831	2383	4181	1900	0.644	0.0204	0.547 × 10 ⁻³	1.062 × 10 ⁻⁵	3.55	1.00	0.451 × 10 ⁻³
55	15.76	985.2	0.1045	2371	4183	1908	0.649	0.0208	0.504 × 10 ⁻³	1.077 × 10 ⁻⁵	3.25	1.00	0.484 × 10 ⁻³
60	19.94	983.3	0.1304	2359	4185	1916	0.654	0.0212	0.467 × 10 ⁻³	1.093 × 10 ⁻⁵	2.99	1.00	0.517 × 10 ⁻³
65	25.03	980.4	0.1614	2346	4187	1926	0.659	0.0216	0.433 × 10 ⁻³	1.110 × 10 ⁻⁵	2.75	1.00	0.548 × 10 ⁻³
70	31.19	977.5	0.1983	2334	4190	1936	0.663	0.0221	0.404 × 10 ⁻³	1.126 × 10 ⁻⁵	2.55	1.00	0.578 × 10 ⁻³
75	38.58	974.7	0.2421	2321	4193	1948	0.667	0.0225	0.378 × 10 ⁻³	1.142 × 10 ⁻⁵	2.38	1.00	0.607 × 10 ⁻³
80	47.39	971.8	0.2935	2309	4197	1962	0.670	0.0230	0.355 × 10 ⁻³	1.159 × 10 ⁻⁵	2.22	1.00	0.653 × 10 ⁻³
85	57.83	968.1	0.3536	2296	4201	1977	0.673	0.0235	0.333 × 10 ⁻³	1.176 × 10 ⁻⁵	2.08	1.00	0.670 × 10 ⁻³
90	70.14	965.3	0.4235	2283	4206	1993	0.675	0.0240	0.315 × 10 ⁻³	1.193 × 10 ⁻⁵	1.96	1.00	0.702 × 10 ⁻³
95	84.55	961.5	0.5045	2270	4212	2010	0.677	0.0246	0.297 × 10 ⁻³	1.210 × 10 ⁻⁵	1.85	1.00	0.716 × 10 ⁻³
100	101.33	957.9	0.5978	2257	4217	2029	0.679	0.0251	0.282 × 10 ⁻³	1.227 × 10 ⁻⁵	1.75	1.00	0.750 × 10 ⁻³
110	143.27	950.6	0.8263	2230	4229	2071	0.682	0.0262	0.255 × 10 ⁻³	1.261 × 10 ⁻⁵	1.58	1.00	0.798 × 10 ⁻³
120	198.53	943.4	1.121	2203	4244	2120	0.683	0.0275	0.232 × 10 ⁻³	1.296 × 10 ⁻⁵	1.44	1.00	0.858 × 10 ⁻³
130	270.1	934.6	1.496	2174	4263	2177	0.684	0.0288	0.213 × 10 ⁻³	1.330 × 10 ⁻⁵	1.33	1.01	0.913 × 10 ⁻³
140	361.3	921.7	1.965	2145	4286	2244	0.683	0.0301	0.197 × 10 ⁻³	1.365 × 10 ⁻⁵	1.24	1.02	0.970 × 10 ⁻³
150	475.8	916.6	2.546	2114	4311	2314	0.682	0.0316	0.183 × 10 ⁻³	1.399 × 10 ⁻⁵	1.16	1.02	1.025 × 10 ⁻³
160	617.8	907.4	3.256	2083	4340	2420	0.680	0.0331	0.170 × 10 ⁻³	1.434 × 10 ⁻⁵	1.09	1.05	1.145 × 10 ⁻³
170	791.7	897.7	4.119	2050	4370	2490	0.677	0.0347	0.160 × 10 ⁻³	1.468 × 10 ⁻⁵	1.03	1.05	1.178 × 10 ⁻³
180	1,002.1	887.3	5.153	2015	4410	2590	0.673	0.0364	0.150 × 10 ⁻³	1.502 × 10 ⁻⁵	0.983	1.07	1.210 × 10 ⁻³
190	1,254.4	876.4	6.388	1979	4460	2710	0.669	0.0382	0.142 × 10 ⁻³	1.537 × 10 ⁻⁵	0.947	1.09	1.280 × 10 ⁻³
200	1,553.8	864.3	7.852	1941	4500	2840	0.663	0.0401	0.134 × 10 ⁻³	1.571 × 10 ⁻⁵	0.910	1.11	1.350 × 10 ⁻³
220	2,318	840.3	11.60	1859	4610	3110	0.650	0.0442	0.122 × 10 ⁻³	1.641 × 10 ⁻⁵	0.865	1.15	1.520 × 10 ⁻³
240	3,344	813.7	16.73	1767	4760	3520	0.632	0.0487	0.111 × 10 ⁻³	1.712 × 10 ⁻⁵	0.836	1.24	1.720 × 10 ⁻³
260	4,688	783.7	23.69	1663	4970	4070	0.609	0.0540	0.102 × 10 ⁻³	1.788 × 10 ⁻⁵	0.832	1.35	2.000 × 10 ⁻³
280	6,412	750.8	33.15	1544	5280	4835	0.581	0.0605	0.094 × 10 ⁻³	1.870 × 10 ⁻⁵	0.854	1.49	2.380 × 10 ⁻³
300	8,581	713.8	46.15	1405	5750	5980	0.548	0.0695	0.086 × 10 ⁻³	1.965 × 10 ⁻⁵	0.902	1.69	2.950 × 10 ⁻³
320	11,274	667.1	64.57	1239	6540	7900	0.509	0.0836	0.078 × 10 ⁻³	2.084 × 10 ⁻⁵	1.00	1.97	—
340	14,586	610.5	92.62	1028	8240	11,870	0.469	0.110	0.070 × 10 ⁻³	2.255 × 10 ⁻⁵	1.23	2.43	—
360	18,651	528.3	144.0	720	14,690	25,800	0.427	0.178	0.060 × 10 ⁻³	2.571 × 10 ⁻⁵	2.06	3.73	—
374.14	22,090	317.0	317.0	0	—	—	—	—	0.043 × 10 ⁻³	4.313 × 10 ⁻⁵	—	—	—

Note 1: Kinematic viscosity ν and thermal diffusivity α can be calculated from their definitions, $\nu = \mu/\rho$ and $\alpha = k/\rho c_p = \nu/Pr$. The temperatures 0.01°C, 100°C, and 374.14°C are the triple-, boiling-, and critical-point temperatures of water, respectively. The properties listed above (except the vapor density) can be used at any pressure with negligible error except at temperatures near the critical-point value.

Note 2: The unit kJ/kg·°C for specific heat is equivalent to kJ/kg·K, and the unit W/m·°C for thermal conductivity is equivalent to W/m·K.

**Lampiran 7:
Tabel data**

Pelat absorber V dengan storage full PCM													
No	WAKTU	T-MASUK (Tin)	T-KELUAR (Tout)	T-PARAFIN (Tpf)	T-PLAT DATAR (Tp1)	T-TANGKI (Ti)	T-KACA LUAR (Tkl)	T-KACA DALAM (Tkd)	T-PIPA ATAS (°C)	T-PIPA BAWAH (°C)	INTENSITAS MATAHARI (I)	KECEPATAN ANGIN (v)	T-LINGKUNGAN (°C)
1	9/8/2021 9:30	45.4	39.2	48	58.9	37.4	54.7	54.6	42.8	46.8	275	3.1	31.8
2	9/8/2021 9:31	45.7	39.2	47.9	58.9	37.4	55.5	54.8	42.8	46.8	277	2.5	33.1
3	9/8/2021 9:32	46.1	39.3	48.1	59	37.5	56	54.8	43	46.8	280	2.8	33.7
4	9/8/2021 9:33	46.9	39.4	48.1	59.2	37.4	56.1	55.4	43.1	47	284	2.9	34.9
5	9/8/2021 9:34	47.2	39.5	48.2	59.2	37.3	57	56.5	43.5	47.3	289	2.9	33.4
6	9/8/2021 9:35	47.1	39.7	48.5	59.6	37.6	57.6	56.8	43.6	47.4	296	3.2	37.3
7	9/8/2021 9:36	47.5	39.8	48.5	59.6	37.7	58	57.7	43.9	47.8	304	2.5	35.6
8	9/8/2021 9:37	47.5	39.9	48.7	60.1	37.6	58.4	56.9	44	47.5	314	2.2	34
9	9/8/2021 9:38	48	39.9	48.9	60.3	37.7	58.3	57.6	44	47.8	323	3.4	40.1
10	9/8/2021 9:39	48	39.9	48.9	60.3	37.7	57.6	57.2	43.9	47.8	334	2.8	34
11	9/8/2021 9:40	47.8	39.7	48.9	60.3	37.6	57.4	56.6	43.6	47.7	348	2.4	33
12	9/8/2021 9:41	47.9	39.9	49.1	60.7	37.8	58.3	57.6	43.9	48	367	2.8	35.5
13	9/8/2021 9:42	48	39.9	49.2	60.8	37.8	57.8	56.9	43.8	47.9	386	2.4	33
14	9/8/2021 9:43	47.3	39.8	49.4	61.1	37.8	57.9	57.8	43.7	47.8	370	2.2	32.6
15	9/8/2021 9:44	47.4	39.7	49.4	61.2	37.8	57.1	56.7	43.8	47.8	354	2.5	31.6
16	9/8/2021 9:45	47.3	39.8	49.6	61.2	37.9	57.8	56.9	44	48	347	2	33.3
17	9/8/2021 9:46	48.3	40.1	49.7	61.4	38.1	58.7	57.3	43.5	48	341	1.9	34
18	9/8/2021 9:47	48.8	40	49.7	61.4	37.9	59.7	59.2	44.2	48.2	336	2.5	36.7
19	9/8/2021 9:48	48.9	40.2	49.8	61.7	38	60.3	59.7	44.5	48.5	332	2.8	34.6
20	9/8/2021 9:49	48.7	40.3	49.8	61.7	37.8	59.8	59.2	45.4	48.9	330	2.4	33.9
21	9/8/2021 9:50	48.1	40.2	50	62.1	38	58.8	58.5	44.9	48.9	330	2.5	32.2
22	9/8/2021 9:51	46.9	40	50.1	62.3	38	59.1	57.7	44.9	49.1	333	2.2	33.9
23	9/8/2021 9:52	46.9	39.9	50.3	63.1	38.1	58.1	57.1	44.9	49.3	338	2.2	33.3
24	9/8/2021 9:53	46.9	40	50.3	62.9	38.1	58	56.5	44.7	49.1	344	1.7	34.2
25	9/8/2021 9:54	46.9	39.9	50.3	62.8	38.1	56.5	55.2	44.5	48.9	353	1.9	33.7
26	9/8/2021 9:55	46.9	39.8	50.5	63	38.2	57.5	56.2	44.2	48.6	369	2.3	34.2
27	9/8/2021 9:56	47.6	40.1	50.7	62.8	38.3	58.2	57	44.4	48.8	382	2	35.3
28	9/8/2021 9:57	47.5	40.1	50.6	63.1	38.3	58.2	56.9	44.9	49.2	389	2.1	34.5
29	9/8/2021 9:58	48	40.3	50.8	63	38.4	59.1	58.6	44.7	48.9	387	1.3	34.9
30	9/8/2021 9:59	48.1	40.3	50.8	63.2	38.3	58.8	58.5	45.4	49.1	391	1.6	35.9
31	9/8/2021 10:00	48.8	40.6	51.1	63.5	38.6	60.3	58.9	45.4	49.4	388	1.2	34.5
32	9/8/2021 10:01	48.9	40.7	51.2	63.6	38.7	59.6	59.2	45.6	49.7	388	1.7	34.4
33	9/8/2021 10:02	48.7	40.5	51.1	63.7	38.3	60.6	59.5	45.7	49.7	389	1.9	35.8
34	9/8/2021 10:03	48.4	40.5	51.2	64.2	38.6	58.4	58.2	45.6	49.9	395	1.4	32.4
35	9/8/2021 10:04	47.4	40.5	51.4	64.3	38.7	58.1	57.4	45.7	50.2	400	1.9	31.9
36	9/8/2021 10:05	47.5	40.3	51.4	64.5	38.7	58.8	57.5	45.5	50	405	1.4	33
37	9/8/2021 10:06	47.5	40.3	51.5	64.7	38.8	57.7	57.1	45.4	50	408	1.6	32.5
38	9/8/2021 10:07	47.4	40.3	51.5	64.7	38.8	57.4	56.8	45.3	49.8	408	1.7	32.4
39	9/8/2021 10:08	47.5	40.3	51.8	65.2	39	57.2	57.1	45.2	49.8	405	1.7	34.2
40	9/8/2021 10:09	47.9	40.4	51.8	64.7	39.1	56.7	56.4	45.3	49.5	401	1.7	32.6
41	9/8/2021 10:10	47.6	40.4	52	65.4	39	57.1	56.4	45.5	49.8	396	1.7	32.8
42	9/8/2021 10:11	47.5	40.3	52	65.4	38.7	58.2	58.1	45.5	50.2	391	1.3	33.8
43	9/8/2021 10:12	48.3	40.7	52	65	39	59.8	59	45.9	50.3	385	1.1	35.7

44	9/8/2021 10:13	48.8	40.8	52	64.9	39.1	60	59.2	45.8	50.1	381	1.1	34.5
45	9/8/2021 10:14	48.9	40.7	52.1	65.5	39	60	58.6	45.9	50.3	378	1.1	33.5
46	9/8/2021 10:15	48.8	40.8	52.2	66	39.2	59	58.6	46.1	50.6	377	1.8	34.7
47	9/8/2021 10:16	48.5	40.9	52.4	65.9	39.3	58.4	58.3	46.1	50.8	374	2	32.7
48	9/8/2021 10:17	48.5	40.9	52.4	66	39.5	59.3	58.5	47.1	50.6	370	1.9	33.9
49	9/8/2021 10:18	48.8	40.7	52.4	65.9	39.2	58.4	57	46	50.4	366	1.7	33.9
50	9/8/2021 10:19	48.5	40.9	52.5	66.2	39.3	58.3	57.2	46	50.7	363	1.6	34.6
51	9/8/2021 10:20	48.3	40.8	52.6	66.3	39.3	58.2	56.9	46	50.6	362	1.7	34.2
52	9/8/2021 10:21	48.6	40.8	52.7	66.1	39.4	59.1	58.8	45.9	50.6	363	1.4	33.8
53	9/8/2021 10:22	49.3	40.8	52.6	66	39	59.2	58.5	46.5	50.5	371	2	33.9
54	9/8/2021 10:23	48.4	40.9	52.9	66.5	39.4	57.7	57.2	45.4	50.6	383	2.4	32.9
55	9/8/2021 10:24	48.1	40.9	52.9	66.7	39.5	57.3	57.2	45.8	51.1	396	2.6	33
56	9/8/2021 10:25	48	40.9	53	66.7	39.7	57.4	56.2	45.8	51.1	408	2.8	32.9
57	9/8/2021 10:26	48.4	40.9	53	66.7	39.9	57.7	56.3	45.8	50.8	416	2.5	34.1
58	9/8/2021 10:27	48.6	41	53.1	67	39.7	57.5	57.4	45.6	51	420	3	34.9
59	9/8/2021 10:28	48.8	41.1	53.2	67	39.8	58	57	45.6	51.1	417	2.4	34.2
60	9/8/2021 10:29	49.1	41.2	53.4	67.2	39.9	58.9	58.2	45.7	50.9	407	2.8	34.4
61	9/8/2021 10:30	48.7	41.2	53.4	67.1	39.9	58	57.6	45.7	51	400	2.6	33.9
62	9/8/2021 10:31	48.7	41.2	53.4	67.4	40	58.9	57.8	45.8	51.2	393	2.4	33.5
63	9/8/2021 10:32	48.8	41.3	53.5	67.5	40	57.8	56.5	45.9	51.2	386	3.6	34.4
64	9/8/2021 10:33	48.6	41.2	53.6	67.5	40	57	55.6	45.7	51.2	382	3.4	34.4
65	9/8/2021 10:34	48.7	41.2	53.6	67.4	39.9	58	57.8	46	51.3	381	3.3	33.4
66	9/8/2021 10:35	49.2	41.4	53.8	67.4	40.4	59.1	57.7	45.1	50.8	383	2.4	34.4
67	9/8/2021 10:36	49.2	41.2	53.7	66.9	40	58.7	57.8	46.3	51.5	393	2.4	33.8
68	9/8/2021 10:37	49.2	41.4	53.9	67.1	40.1	58.4	57.8	46.5	51.8	408	2.9	34.7
69	9/8/2021 10:38	49	41.5	54	66.7	40	59.8	59.1	46.6	51.2	411	2.9	34.5
70	9/8/2021 10:39	49.7	41.5	53.9	66.5	40.1	59.5	58.9	46.2	51.6	413	2.1	35.7
71	9/8/2021 10:40	49.5	41.6	54.1	66.7	40.2	60	58.5	46	51.7	418	2.1	33.9
72	9/8/2021 10:41	50.1	41.8	54.2	66.5	40.4	59.8	59	46.1	51.5	416	2.5	36.5
73	9/8/2021 10:42	50.2	41.8	54.5	66.9	40.5	59.5	59.3	46.3	51.9	390	2.3	35.2
74	9/8/2021 10:43	49.9	41.7	54.5	67.1	40.4	59.4	58.1	46.1	51.9	353	1.3	35.1
75	9/8/2021 10:44	49.4	41.6	54.6	66.6	40.6	58.3	57	46.4	51.7	324	2.8	37.3
76	9/8/2021 10:45	49.2	41.4	54.7	66.9	40.6	58	56.8	46	52	303	2.3	35.9
77	9/8/2021 10:46	50.1	41.6	55	67	40.6	60.2	59.4	45.8	51.6	292	2.1	37.7
78	9/8/2021 10:47	50.7	41.7	55	67.1	40.3	59.1	59	45.4	51.3	300	2.9	35.2
79	9/8/2021 10:48	50.1	41.8	55.3	66.9	40.4	59.2	58.7	46.3	51.7	330	2.3	39.1
80	9/8/2021 10:49	50.1	41.8	55.4	67.2	40.6	61	60	46	51.9	383	2	39.9
81	9/8/2021 10:50	51.4	42	55.7	67.2	40.7	62.4	61.3	46.3	52	419	2.4	38.6
82	9/8/2021 10:51	51.1	42	56	67.6	40.6	61.7	60.9	46.5	52.1	496	2.9	37.3
83	9/8/2021 10:52	50.8	42	56.3	67.5	40.7	59.7	58.4	46.5	52.3	516	3.1	35
84	9/8/2021 10:53	49.9	42	56.6	67.7	40.8	58.8	57.6	46.5	52.5	560	2.9	35.5
85	9/8/2021 10:54	50	41.9	57.1	67.7	40.8	59.4	58.1	46.1	52.3	646	3.2	35
86	9/8/2021 10:55	50	41.7	57.4	67.5	40.6	58.5	57.1	46	52.5	749	3.1	35
87	9/8/2021 10:56	50.1	41.8	58.1	67.5	40.9	59.4	58.6	46.5	52.9	653	2.3	33.9
88	9/8/2021 10:57	50.7	42	58.4	67.4	40.9	60.4	59.7	46	52.1	524	3	35.3
89	9/8/2021 10:58	51.8	42.1	58.9	67.2	40.9	61.8	61.7	46.1	52.1	480	3.3	36
90	9/8/2021 10:59	52.8	42.4	59.4	67.4	41	61.9	60.5	46.6	52.4	419	2.5	35.5
91	9/8/2021 11:00	51.8	42.3	59.8	67	41.1	60.7	59.9	46.8	52.6	426	2.4	36.5
92	9/8/2021 11:01	50.9	42.3	60.1	67.5	40.8	60.6	59.2	47.2	52.9	422	2.4	34.7
93	9/8/2021 11:02	50.8	42.5	60.5	67.7	41.2	61.4	60.1	46.5	52.7	455	2.4	38.2
94	9/8/2021 11:03	51.9	42.4	61.1	68.1	41.1	62.1	60.9	46.4	53.2	428	3.2	35.4
95	9/8/2021 11:04	51.5	42.4	61.2	67.8	41.2	60.8	59.3	46.6	52.8	432	2.6	33.9
96	9/8/2021 11:05	50.8	42.5	61.7	68.2	41.4	60.3	60.2	46.7	53.1	440	2.6	34.7

97	9/8/2021 11:06	50.9	42.3	61.8	68	41.2	60.6	60.4	46.5	53	498	2.5	36
98	9/8/2021 11:07	51.1	42.4	62.4	68	41.4	60.8	59.3	46.5	52.8	551	1.9	34.4
99	9/8/2021 11:08	51.4	42.5	62.5	68.1	41.4	61.8	60.5	46.7	53	543	2.4	34.4
100	9/8/2021 11:09	51.7	42.8	62.8	68.2	41.7	62.2	61	46.4	52.7	802	1.6	39.1
101	9/8/2021 11:10	52.4	42.8	62.9	68.3	41.5	62.7	62.1	47.2	53.2	462	1.6	36.2
102	9/8/2021 11:11	52.1	42.8	63.1	67.9	41.5	64.3	63.7	46.9	52.9	578	1.6	38.1
103	9/8/2021 11:12	52.5	43.1	63.2	68.1	41.1	65.1	64.1	47.2	53.2	940	2	38.5
104	9/8/2021 11:13	52.6	43.2	63.7	68.9	41.7	65.2	64.3	47.7	53.8	751	2	35
105	9/8/2021 11:14	52.5	43.2	63.8	68.9	41.5	65.3	64.8	47.7	53.8	819	1.9	36.7
106	9/8/2021 11:15	52.3	43.2	64.1	69.1	41.6	64.7	63.5	47.9	54.2	762	1.8	36
107	9/8/2021 11:16	52.4	43.2	64.3	69.3	41.8	66.3	66.1	47.7	54.4	985	1.8	35.8
108	9/8/2021 11:17	53.1	43.2	64.6	69.4	41.8	66.2	65.1	47.6	54.2	822	1.8	37
109	9/8/2021 11:18	52.6	43.3	64.9	69.3	42.1	65.2	64	47.8	53.9	612	1.9	37.8
110	9/8/2021 11:19	53.1	43.3	65	69.5	41.8	65.4	64.6	47.5	54.1	532	2.5	36.7
111	9/8/2021 11:20	52.6	43.4	65.4	69.7	42.1	65.6	64.4	47.4	54.3	738	2.3	37.3
112	9/8/2021 11:21	52.8	43.2	65.5	69.5	42.2	65.6	64.7	47.8	54.5	962	2.3	35.7
113	9/8/2021 11:22	53.1	43.4	65.8	69.7	41.8	64.8	64.6	47.1	54.1	739	2.2	34.7
114	9/8/2021 11:23	52.3	43.4	66	73.4	42.2	64.2	63.7	47.6	54.4	762	2.2	35.4
115	9/8/2021 11:24	52.4	43.4	66.1	74.2	42.2	64.2	63.5	47.5	54.5	841	1.4	36.5
116	9/8/2021 11:25	53.3	43.3	66.6	74	42.3	65.9	65.4	47.2	54.2	908	1.7	35.4
117	9/8/2021 11:26	53.8	43.5	66.7	74.6	42.3	67.1	66.3	47.7	54.6	862	1.9	36
118	9/8/2021 11:27	53.2	43.2	66.8	71.4	42.3	65.2	64.4	47.9	54.9	625	1.5	35.2
119	9/8/2021 11:28	53.2	43.3	66.6	71.8	42.2	64.6	63.1	47.6	54.5	775	0.8	34.5
120	9/8/2021 11:29	52.4	43.4	66.7	74.9	42.3	65.7	64.4	47.8	54.8	693	1.4	37.7
121	9/8/2021 11:30	52.9	43.5	67.1	74.9	42.4	66.9	65.5	47.9	55.1	726	2.6	36.5
122	9/8/2021 11:31	54.1	43.6	67.3	74.7	42.3	66.7	65.4	47.9	55.8	730	2.6	36.9
123	9/8/2021 11:32	54	43.7	67.6	74.8	42.4	64.9	64.4	48	55.5	751	2.3	34.3
124	9/8/2021 11:33	53	43.8	68	75.4	42.5	64.5	63.7	48	55.7	687	1.9	33.6
125	9/8/2021 11:34	53.4	43.7	68.1	75.1	42.5	65.2	64.1	47.8	55.6	619	1.1	34.8
126	9/8/2021 11:35	53.2	43.7	68.1	76	42.6	66.4	65.2	48	55.7	597	0.9	35
127	9/8/2021 11:36	53.6	43.8	68.3	74.4	42.6	64.3	63.3	48.3	56	578	1.7	33.4
128	9/8/2021 11:37	52.9	43.5	68.3	73.9	42.6	62.1	61.6	48	56	582	2.7	34.4
129	9/8/2021 11:38	53.4	43.4	68.1	72.1	42.8	63.1	61.7	47.5	55.4	592	1.9	34.4
130	9/8/2021 11:39	53.4	43.5	68	71.5	42.9	59	58.3	47.3	55.1	631	2.3	34.1
131	9/8/2021 11:40	52.7	43.4	67.8	71.4	42.9	58.2	57.8	47.1	54.9	576	1.8	34.2
132	9/8/2021 11:41	52.3	43.4	67.7	71.2	42.9	56.8	55.7	47.1	54.9	557	2.1	34.1
133	9/8/2021 11:42	52.3	43.2	67.3	70.1	42.9	57.2	56.4	47.1	54.8	600	2.6	33.4
134	9/8/2021 11:43	52.5	43.4	67.1	72	42.9	60.6	60.1	47.2	54.8	543	2.7	36.4
135	9/8/2021 11:44	52.7	43.6	67.1	71.8	42.6	62.5	62.2	47.6	55.2	557	2.6	36
136	9/8/2021 11:45	53.8	44	67.1	71.7	42.9	62.9	62.2	47.8	55.5	540	2.6	36.1
137	9/8/2021 11:46	53.4	44.1	67.3	72.6	43.1	61.9	60.4	48.1	55.8	556	2.5	34.5
138	9/8/2021 11:47	52.7	44	67.5	73.9	43.6	63.7	62.4	48.7	56	592	1.5	34.1
139	9/8/2021 11:48	52.9	44	67.8	74.3	43.1	64	63.5	48	56.2	658	1.6	33.9
140	9/8/2021 11:49	53.7	44	68	71.2	43.1	60.1	59	47.8	56.2	667	1.5	33.6
141	9/8/2021 11:50	53.7	43.8	67.5	67.4	43.2	60.6	60.2	47.4	55.4	722	1.9	33.4
142	9/8/2021 11:51	53.8	44	67.4	71.4	43.1	63.2	62.2	47.5	55.5	553	1.7	35
143	9/8/2021 11:52	54.9	44.3	67.5	73.1	43.4	67.7	66.6	47.9	55.7	562	1.3	36.5
144	9/8/2021 11:53	55	44.5	67.7	72.7	43.3	65.5	64.3	48.5	56.4	458	1.4	37.2
145	9/8/2021 11:54	55.4	44.7	68.1	73.3	43.4	64.1	62.7	49.1	57.2	427	2.4	35.3
146	9/8/2021 11:55	54.1	44.4	68	70.2	43.5	62.9	61.6	48.5	57.1	414	2.4	34.3
147	9/8/2021 11:56	53.2	44.3	68.4	73.7	43.7	61.6	60.3	48.1	56.9	398	1.7	32.5
148	9/8/2021 11:57	53.4	44.2	68.5	74.3	43.8	64.2	63.5	47.8	56.7	391	2.2	35.5
149	9/8/2021 11:58	53.4	44.2	68.7	74.7	43.7	64.3	63.9	47.7	56.8	384	2.2	33.6

150	9/8/2021 11:59	53.9	44.3	68.9	73.2	43.8	64.2	63.7	48.1	56.9	422	1	33.9
151	9/8/2021 12:00	54.6	44.7	69.1	73.6	43.8	66	65.8	48.2	56.9	391	1.2	35.9
152	9/8/2021 12:01	55.1	44.8	69	72.8	43.8	66.3	66.1	48.3	57.1	408	0.9	36.2
153	9/8/2021 12:02	54.1	44.7	69.1	72.5	43.7	62.4	61.9	48.5	57.3	347	1.1	35.5
154	9/8/2021 12:03	54.4	44.5	68.8	72.5	44	63.4	62.9	47.9	56.9	334	1.8	33.8
155	9/8/2021 12:04	53.5	44.5	69.1	72	44.1	58.1	56.8	48	57.3	381	2.8	32.4
156	9/8/2021 12:05	53.5	44.5	69	72.3	44.2	60.7	59.5	47.9	57.1	409	1.4	33.1
157	9/8/2021 12:06	53.4	44.3	68.9	73.2	43.6	62.3	61	48.3	57.7	424	1.6	34.3
158	9/8/2021 12:07	54	44.6	69.1	72.5	44.5	63.8	62.6	47.8	58	444	1.4	35.1
159	9/8/2021 12:08	54	44.6	69	68.2	44.2	57	56	47.6	57.7	513	1	33.6
160	9/8/2021 12:09	54.2	44.6	68.4	70.3	44.2	61.1	60.4	47.2	56.7	522	1.1	34.2
161	9/8/2021 12:10	54.2	44.7	68.6	72.6	44.3	60	59.1	47.2	57	500	1.4	33.7
162	9/8/2021 12:11	53.2	44.6	68.8	73.2	44.6	60.1	59.3	47.4	57.3	527	1.8	35.1
163	9/8/2021 12:12	53.1	44.6	68.8	73.6	44.5	60.2	59.5	48.1	57.9	558	1.7	32.7
164	9/8/2021 12:13	53.5	44.8	69.2	73.9	44.6	60.8	60.5	48	57.8	577	1.1	33.2
165	9/8/2021 12:14	53.6	44.7	69.1	73.5	44.5	59.8	59.1	47.9	57.7	568	0.9	33.1
166	9/8/2021 12:15	53.9	44.9	69.3	73.5	44.7	61.5	60.2	47.8	57.8	569	0.9	33.1
167	9/8/2021 12:16	54.4	45	69.4	73.1	44.6	63.1	62.5	47.8	57.6	538	1.2	36.2
168	9/8/2021 12:17	54.3	45	69.4	73.5	44.6	62.3	61.9	48.2	57.7	522	1.5	33.4
169	9/8/2021 12:18	54.1	45.1	69.7	73.1	44.8	61.4	60.9	48.5	57.9	487	1.7	35.3
170	9/8/2021 12:19	54.3	44.9	69.4	70.9	44.7	60.1	59.2	48	57.6	485	1.3	34.4
171	9/8/2021 12:20	54.1	44.8	68.9	67.7	44.8	54.8	54.7	47.4	56.8	498	1.4	32.6
172	9/8/2021 12:21	53.8	44.9	68.7	71.7	44.8	59.4	59.1	47.2	56.4	510	1.6	33.2
173	9/8/2021 12:22	53.9	45.1	68.6	71.8	44.8	60.1	59.1	47.7	56.8	499	1.6	34.9
174	9/8/2021 12:23	54.1	45.3	68.7	72	44.9	60.8	59.6	48.3	57.4	557	2	34.9
175	9/8/2021 12:24	53.5	45.2	68.7	71.9	44.8	59.8	59.7	48.1	57.5	549	1.3	32.6
176	9/8/2021 12:25	53.2	45.2	68.8	71.1	45.3	56.3	55.4	48.5	57.8	562	1.2	33.4
177	9/8/2021 12:26	54	45.2	69.1	72.1	45.1	59.8	58.6	47.4	57.4	524	1.3	34.5
178	9/8/2021 12:27	54.2	45.2	69.1	72	45	61.7	60.9	47.1	57.1	515	1	34.1
179	9/8/2021 12:28	54.6	45.4	69.1	71.7	45	62.1	61.4	47.2	57	515	1	35.7
180	9/8/2021 12:29	54.9	45.5	69.2	72	44.9	62.6	62.4	48.1	57.4	499	1.4	36.5
181	9/8/2021 12:30	55.4	45.5	69.3	71.7	45.2	61.1	60.3	47.7	57.4	597	1.3	37
182	9/8/2021 12:31	56.4	45.4	69.4	71.4	45.2	57.8	56.6	47.7	57.9	651	0.8	34.4
183	9/8/2021 12:32	58	45.6	69.4	71.7	45.3	60.9	59.6	48.3	59	644	0.5	35.2
184	9/8/2021 12:33	58.3	45.7	69.4	72.4	45.3	61.9	61.3	48.5	59.9	792	1.4	35.4
185	9/8/2021 12:34	59	45.8	69.4	72.4	45.4	62.3	61.5	48.9	60.1	727	1.2	34.5
186	9/8/2021 12:35	59.4	45.8	69.7	72.4	45.5	60.7	59.9	50.6	60.9	824	0.9	33.7
187	9/8/2021 12:36	57.4	45.8	69.6	73	45.5	60.7	59.9	52.9	61.3	718	1.3	33.2
188	9/8/2021 12:37	56.8	45.7	69.8	73.4	45.5	62	61	54.9	60.2	552	1.4	33.9
189	9/8/2021 12:38	55.9	46	69.9	74	45.7	61.4	60	63.7	56.6	491	1.4	36.5
190	9/8/2021 12:39	55	45.8	70	74	45.5	61.5	61	67.5	55.7	457	0.8	34.4
191	9/8/2021 12:40	54.3	45.9	70.4	74.3	45.8	61.7	60.9	69.5	55.7	495	0.8	34.9
192	9/8/2021 12:41	54.1	45.9	70.6	74.3	45.8	60.3	60	69.8	55.6	494	0.6	33.5
193	9/8/2021 12:42	53.3	45.8	70.9	74.4	45.7	59.5	58.8	70.3	56.1	601	1.8	33.1
194	9/8/2021 12:43	52.9	45.7	71.2	74.6	45.8	60.4	59.6	70.7	56.1	588	1	36.8
195	9/8/2021 12:44	53	45.8	71.6	74.9	45.9	61.2	60.4	71.1	56.2	579	1.8	33.4
196	9/8/2021 12:45	52	45.7	72	75.3	45.8	61.8	60.9	71.5	56.2	526	2.2	34.5
197	9/8/2021 12:46	51.5	45.6	72.2	75.2	45.9	61.7	60.6	72	56.8	532	1.7	33.5
198	9/8/2021 12:47	51.3	45.6	72.4	75.3	45.8	62.8	62.6	72.5	57.5	511	1.1	34.9
199	9/8/2021 12:48	50.8	45.7	72.7	75.6	45.9	63.1	62.5	73.1	58.3	522	1.3	34.9
200	9/8/2021 12:49	50.6	45.8	73.1	76	45.9	61.3	60.5	73.4	59.1	520	2.3	33.6
201	9/8/2021 12:50	50.8	45.5	73.2	76	46.1	62.2	60.8	73.2	59.5	511	1.6	35.4
202	9/8/2021 12:51	51.4	45.7	73.6	76.4	46	61.5	61.2	73.7	59.9	540	1.3	33.4

203	9/8/2021 12:52	52.4	45.7	73.7	76.2	45.9	61.8	60.4	73.6	59.7	574	1.5	37.2
204	9/8/2021 12:53	54.2	46	74.1	76.7	46.1	61.8	60.7	73.7	59.1	718	1.6	33.7
205	9/8/2021 12:54	54.9	46.1	74.3	76.9	46.2	61.8	61.1	73.7	57.8	645	2	34
206	9/8/2021 12:55	54.9	46.2	74.6	77	46.1	64.7	64.1	74.2	57.8	596	2.1	36.2
207	9/8/2021 12:56	54.5	46.3	74.7	76.9	46.1	63.6	62.9	74.6	57.6	559	1.6	36.5
208	9/8/2021 12:57	53.4	46.1	74.8	77	46.1	62.6	62.5	75.2	58.3	536	0.8	35.9
209	9/8/2021 12:58	52.9	46	75	77	46.1	63.5	63.4	75.1	58.8	507	1.3	34.2
210	9/8/2021 12:59	52.6	46	75.2	77.1	46.1	64.1	63	75.4	59.4	504	0.9	38.6
211	9/8/2021 13:00	51.8	45.8	75.4	77.2	45.9	62.4	62.1	75.7	60.1	566	2.1	34.9
212	9/8/2021 13:01	52.5	45.9	75.6	77.5	46.1	62.4	61.1	75	60	574	2.1	33.4
213	9/8/2021 13:02	52.6	46.1	75.8	77.7	46.5	60.4	58.9	75	59.7	606	2.2	33.5
214	9/8/2021 13:03	54.1	46	75.9	77.9	46.2	62	61.4	75.4	59.8	683	2.4	33.9
215	9/8/2021 13:04	54.6	46.2	76	78.1	46.5	61.4	60.9	75.6	59.5	619	2.7	33.9
216	9/8/2021 13:05	54.6	46.1	76	78	46	60.6	59.5	75.5	58.8	613	1.7	34.9
217	9/8/2021 13:06	55.2	46.2	76.3	78.3	46.4	62.6	62.4	75.7	58.6	623	1.7	35
218	9/8/2021 13:07	54.8	46.3	76.3	78.1	46.4	62.3	61.7	76	58.4	741	1.6	33.5
219	9/8/2021 13:08	54.1	46.3	76.4	78.1	46.4	62.1	61.3	76.2	58.9	741	1.7	33.9
220	9/8/2021 13:09	53.2	46.2	76.6	78.3	46.5	61.8	60.8	76.3	59.4	828	1.6	34.3
221	9/8/2021 13:10	53	46.3	76.6	78.1	46.8	62.8	62	76.3	59.8	745	1.7	34.1
222	9/8/2021 13:11	53	46.3	76.9	78.3	46.5	63.5	62.3	76.7	60.5	684	1.2	34.8
223	9/8/2021 13:12	53	46.3	76.8	78.4	46.5	63.2	62.1	76.7	60.6	655	1.5	34.2
224	9/8/2021 13:13	53.8	46.5	77	78.7	46.6	62.6	62.1	77	60.9	656	2.6	35
225	9/8/2021 13:14	54.8	46.5	77	78.4	46.8	63.7	62.4	76.7	60.3	738	2.4	34.8
226	9/8/2021 13:15	55.2	46.3	77	79.1	46.3	63	61.9	79.1	60.6	665	1.5	33.9
227	9/8/2021 13:16	55.7	46.5	77.2	79.3	46.5	63.7	62.9	76.7	59.7	628	1.9	34.5
228	9/8/2021 13:17	56	46.6	77.4	79.4	46.5	62.4	60.9	77.5	59.8	562	2	33.9
229	9/8/2021 13:18	55.6	46.4	77.4	77.2	46.5	58.4	57	77.7	59.5	669	2.9	35.4
230	9/8/2021 13:19	55.2	46.1	76.9	75.3	46.6	57.8	57.3	76.6	59.8	708	2.6	34.9
231	9/8/2021 13:20	55.1	46.2	76.6	76.1	46.6	59.7	59.6	76.3	58.5	667	2.1	35.7
232	9/8/2021 13:21	54.6	46.3	76.4	77.1	46.6	55.7	55.2	76.4	58.4	614	2.2	32.3
233	9/8/2021 13:22	53.8	46.1	76.3	77.8	46.8	58.2	57.6	76	58.7	667	1.7	33.5
234	9/8/2021 13:23	53.1	45.8	75.9	73.9	46.8	52.6	52.4	75.6	58.8	704	2	32.8
235	9/8/2021 13:24	53.1	45.8	75.4	74.7	46.8	56.8	55.6	74.8	58.5	708	2.1	33.6
236	9/8/2021 13:25	53.3	46.1	75.3	76.6	46.8	57.5	57.1	74.7	58.2	532	1.7	33.1
237	9/8/2021 13:26	52.9	46.1	75.2	75.7	46.8	55.3	53.9	74.9	58.4	716	1.8	33.9
238	9/8/2021 13:27	52.4	45.8	75.2	76	46.8	55.7	55.2	74.8	58.6	603	2	34.1
239	9/8/2021 13:28	52.4	45.9	75.2	77	46.8	59.5	59.1	74.9	58.9	664	2.1	33.9
240	9/8/2021 13:29	52.7	46.2	75.2	76.3	46.9	58	56.6	75.4	59.2	639	2	33.9
241	9/8/2021 13:30	52.3	46.1	75.4	77.5	46.5	58.7	58.1	75.2	59.8	822	2	33.8
242	9/8/2021 13:31	52.3	46	75.5	77.2	46.8	58.3	56.8	75.7	60	728	1.8	34.9
243	9/8/2021 13:32	53.1	46	75.2	73.9	46.8	53.7	52.9	75.4	59.8	862	2.3	33.9
244	9/8/2021 13:33	53.4	45.8	74.7	72.9	46.8	51.8	51.5	74.4	58.8	800	1.7	32.4
245	9/8/2021 13:34	54.1	46.1	74.4	74.3	46.9	55.6	55.2	73.8	57.8	829	1.9	33.1
246	9/8/2021 13:35	54.3	46.3	74.3	76	46.9	56.5	56.2	73.5	57.5	835	2.1	32.3
247	9/8/2021 13:36	53.2	46.2	74.6	76.3	47.1	57.2	55.8	74.6	57.8	840	1.7	34.3
248	9/8/2021 13:37	52.2	46	74.6	76	47	57.1	56.7	74.4	58	845	2.1	32.8
249	9/8/2021 13:38	51.8	45.9	74.7	76.1	46.9	58.1	57	74.7	58.8	842	1.7	34
250	9/8/2021 13:39	51.5	46	74.7	76.3	47	59.6	58.4	74.9	59.4	850	1.9	35.2
251	9/8/2021 13:40	51.6	45.9	74.8	75.9	47.1	60.6	59.1	74.7	59.5	789	1.8	36.3
252	9/8/2021 13:41	52.3	46.5	74.9	76.3	47	60	58.5	75.4	60.3	759	1.3	33.9
253	9/8/2021 13:42	52.2	46.6	75	76.5	46.9	58.9	58.1	75.4	60.3	685	3.2	33.8
254	9/8/2021 13:43	53.2	46.5	75.2	76.6	47	61.5	61.2	75.5	60.6	771	2.2	35.4
255	9/8/2021 13:44	54.8	46.9	75.3	76	47	61.9	61.1	75.7	60.3	629	1.5	36.5

256	9/8/2021 13:45	55.5	47.1	75.2	76.7	46.9	62.6	61.6	75.8	59.6	458	2.6	35.5
257	9/8/2021 13:46	54.7	46.9	75.3	75.3	46.9	57.2	57.1	75.8	59.2	523	1.8	33
258	9/8/2021 13:47	54.6	46.6	75.2	75.3	47.1	58	57.1	75.3	59.2	613	1.6	33.9
259	9/8/2021 13:48	54.9	46.5	74.7	73.8	47	58.9	57.6	74.9	58.5	350	1.5	36.1
260	9/8/2021 13:49	54.7	46.7	74.9	76.4	47.1	59.1	58.8	74.9	58.3	314	1.3	34.4
261	9/8/2021 13:50	53.7	46.3	74.9	75.8	47.1	55.3	54.4	75	58.3	378	0.9	33
262	9/8/2021 13:51	53	46	74.5	72.3	47.1	52.5	52.3	74.4	58.4	499	1.1	33.1
263	9/8/2021 13:52	53.5	46	73.8	71.4	47	51	50.6	73.7	58	519	1.1	33.9
264	9/8/2021 13:53	53.5	46.1	73.5	70.9	47.2	50.1	49.3	72.9	57.5	551	1.3	32.3
265	9/8/2021 13:54	53.2	46.3	73.2	74.2	47.2	54.9	53.5	72.5	57.2	600	0.9	33
266	9/8/2021 13:55	52.8	46.3	73.4	74.5	47.1	55.8	55.2	72.9	57.4	557	0.9	33
267	9/8/2021 13:56	52.6	46.6	73.5	74.4	47.1	57.9	57.8	73.7	57.9	573	0.9	34.3
268	9/8/2021 13:57	51.7	46.3	73.4	74.2	46.9	56.8	56	73.5	58.4	598	2	33.7
269	9/8/2021 13:58	50.7	46.3	73.5	74.5	47.1	56.5	55.5	73.5	59.4	553	2.5	34
270	9/8/2021 13:59	51.1	46.3	73.5	74.7	47	59.1	58.7	73.9	60.1	610	0.9	35.5
271	9/8/2021 14:00	51.5	46.1	73.7	74.3	47.4	59.1	58.9	73.5	59.7	589	0.6	34.2
272	9/8/2021 14:01	52.8	46.7	73.8	74.8	47.2	59.4	58	73.8	60.4	641	0.8	35.8
273	9/8/2021 14:02	52.9	46.8	73.9	75.4	47.2	59.1	57.9	73.8	60.4	654	1.9	34.1
274	9/8/2021 14:03	53.6	46.8	74	75	47.1	59.8	59.5	73.8	59.9	654	1.9	34.3
275	9/8/2021 14:04	53.6	47	74.1	75.6	47.1	59.4	58.7	74	60.2	625	2	33.5
276	9/8/2021 14:05	53.9	46.9	74.2	75.7	47.2	59.1	59	74	59.9	617	1.6	34.4
277	9/8/2021 14:06	54.4	47	74.3	75.1	47.2	57.8	56.8	74	59.8	611	1.4	34.1
278	9/8/2021 14:07	54.3	46.8	74	74	47.2	57.9	57.2	73.6	59.5	710	1.4	34.5
279	9/8/2021 14:08	54.9	46.9	74	74.9	47.1	58.4	57.7	73.5	59.4	649	2.4	33.5
280	9/8/2021 14:09	54	46.9	74.1	75.4	47.2	57.3	56.7	73.6	59.4	877	1.9	34.1
281	9/8/2021 14:10	53.4	46.8	74	74.5	47.2	56.8	56.3	73.3	59.4	823	2.2	34.1
282	9/8/2021 14:11	53.8	46.8	74.1	74.9	47.3	57.3	55.8	73.4	59.2	713	3.1	33.8
283	9/8/2021 14:12	53.8	46.8	74	75	47.2	59.6	59.3	73.4	58.9	661	2.3	34.2
284	9/8/2021 14:13	53.8	47	74	74.6	47.3	58.5	58.2	73.7	59.1	601	2.3	33
285	9/8/2021 14:14	53.3	46.9	74.3	75.2	47.4	59.6	59	74.1	59.1	670	2.3	33.9
286	9/8/2021 14:15	52.6	46.9	74.3	75.2	47.3	59.2	58.3	74.1	59.7	665	1.8	35.5
287	9/8/2021 14:16	52.3	46.8	74.2	75.1	47.2	58.8	58.7	74.1	60.1	619	2.5	35
288	9/8/2021 14:17	52.5	46.8	74.3	74.9	47.4	60.3	59.2	74.4	60.7	682	2	34.9
289	9/8/2021 14:18	52.7	46.9	74.3	74.8	47.3	59.1	57.7	74.5	60.9	604	2.3	33.5
290	9/8/2021 14:19	52.6	46.9	74.4	75.2	47.2	59.2	57.8	74.3	61.1	633	2	34.3
291	9/8/2021 14:20	53.3	47.1	74.6	75.4	47.4	60.4	58.9	74.4	61.1	630	2.7	34.9
292	9/8/2021 14:21	53.9	47.2	74.6	75.6	47.2	60.7	59.6	74.2	60.9	625	1.8	34.1
293	9/8/2021 14:22	54.9	47.4	74.7	75.4	47.4	61.4	61.3	74.4	60.7	646	2.6	35.3
294	9/8/2021 14:23	55.7	47.8	74.8	75.4	47.3	62.2	61.8	73.6	60.5	670	2.2	37
295	9/8/2021 14:24	54.9	47.5	74.7	75.9	47	61	60.8	75	60.5	697	2	34.5
296	9/8/2021 14:25	53.5	47.3	74.8	76.4	47.1	61.4	61.2	74.9	59.8	708	1.8	35.2
297	9/8/2021 14:26	53.2	47.4	75	76	47.4	62.6	61.1	75	60.3	598	2.6	35
298	9/8/2021 14:27	52.5	47.4	75.2	76.6	47.4	63.1	61.8	75.4	60.6	742	2.3	35.4
299	9/8/2021 14:28	51.9	47.4	75.4	76.2	47.4	62.4	60.9	75.8	60.9	646	2.9	35.4
300	9/8/2021 14:29	51.1	47.1	75.2	74.3	47.4	57.7	56.9	75.9	61.5	542	2.8	33.7
301	9/8/2021 14:30	51.8	46.8	75	72.9	47.6	55.5	55.3	74.7	61.9	504	2.6	35.7
302	9/8/2021 14:31	53.3	46.8	74.4	72.4	47.5	55.7	55.4	73.6	61.4	508	2.8	35.4
303	9/8/2021 14:32	55.6	47.5	74.3	74.7	47.5	60.4	60.3	73.4	60.9	558	3.5	35.9
304	9/8/2021 14:33	55.7	47.7	74.2	74.6	47.7	56.2	55.4	73.7	60.7	536	2.9	33.8
305	9/8/2021 14:34	56.1	47.4	73.7	73.5	47.5	57.1	56.9	73.4	61.5	595	2.1	34.2
306	9/8/2021 14:35	56.9	47.8	73.4	74.4	47.8	59.8	59.6	73	60.4	504	1.9	35.1
307	9/8/2021 14:36	56.9	47.7	73.1	73.2	47.8	55.4	53.9	72.6	59.2	443	1.9	33.1
308	9/8/2021 14:37	56.5	47.6	72.6	71.5	47.8	55.1	54.3	72	58.9	426	2	34.1

309	9/8/2021 14:38	55.7	47.5	72.1	70.8	48	53.5	52.2	71.2	58.4	423	1.7	33.3
310	9/8/2021 14:39	54.9	47.8	71.7	71.9	48.1	57.2	57.1	70.3	58.3	422	2.3	34.8
311	9/8/2021 14:40	54.6	47.8	71.5	72.2	48	56	54.6	70.6	58.8	417	2.5	36.2
312	9/8/2021 14:41	54.5	48	71.4	72.3	48	56.3	55.9	70.7	59.4	410	2	33.7
313	9/8/2021 14:42	54.6	47.8	71.1	71.5	48.1	57.5	56.4	70.6	59.5	406	1.8	34.2
314	9/8/2021 14:43	54.6	48	71.1	71.5	48.1	55.7	54.3	70.4	59.2	401	2.5	33.4
315	9/8/2021 14:44	54.8	47.8	70.7	69.7	48.2	53	52.6	70	58.8	390	2.9	33.1
316	9/8/2021 14:45	54.3	47.7	70.2	69.5	48.3	54.6	53.5	69.4	58.1	374	2.3	35.3
317	9/8/2021 14:46	54.6	48	69.9	69.9	48	53.9	52.7	68.9	57.5	371	1.9	34.2
318	9/8/2021 14:47	54.5	47.7	69.6	68.1	48.3	51.6	50.4	68.7	57.7	366	2	33.9
319	9/8/2021 14:48	54	47.7	69	67.1	48.3	50.3	50.1	68.1	57.4	369	3.3	34.1
320	9/8/2021 14:49	53.4	47.6	68.4	66.3	48.4	49.3	48.9	67.4	56.9	374	2.8	33
321	9/8/2021 14:50	53	47.5	68	65.9	48.4	49.1	48.2	66.7	56.6	359	1.5	34.1
322	9/8/2021 14:51	53.1	47.5	67.4	66.1	48.2	50.3	49.7	66.4	56.1	355	1.2	33.9
323	9/8/2021 14:52	53.1	47.9	67.2	66.5	48.4	50.3	50.2	66.1	56.4	357	1.4	33.5
324	9/8/2021 14:53	52.3	47.6	66.8	65.2	48.4	48	47.3	65.6	56.4	357	1.4	32.5
325	9/8/2021 14:54	52	47.3	66.3	64.4	48.3	47.7	46.4	65.1	56.1	362	1.4	33.4
326	9/8/2021 14:55	52	47.5	65.8	64	48.1	47.4	46.9	65.1	56.2	385	1.3	33.2
327	9/8/2021 14:56	51.9	47.5	65.4	63.4	48.5	46.1	45.2	64.1	55.5	389	1.8	32.3
328	9/8/2021 14:57	51.7	47.3	64.8	62.6	48.4	45.7	45	63.5	55.1	371	2.5	34.1
329	9/8/2021 14:58	51.4	47.3	64.4	62.3	48.4	45.2	44.4	63	54.8	371	3.1	32.3
330	9/8/2021 14:59	50.9	47.2	64	61.9	48.6	45.1	43.9	62.8	54.7	367	2.3	32.7
331	9/8/2021 15:00	50.7	47.2	63.5	61.4	48.1	44.7	43.7	62.3	54.6	352	2.6	33.1
332	9/8/2021 15:01	50.4	47.1	63.1	60.9	48.4	44.5	44.3	61.5	54	337	2	32.7
333	9/8/2021 15:02	50	47	62.6	60.6	48.4	43.7	43.6	61.2	53.8	327	1.5	32.5
334	9/8/2021 15:03	50.1	47.1	62.3	60.1	48.5	43.6	43.5	60.8	53.7	329	1.6	32.6
335	9/8/2021 15:04	49.5	47.1	61.8	59.8	48.4	43.2	42.7	60.3	53.6	325	1.6	32.3
336	9/8/2021 15:05	49.7	47.2	61.6	59.5	48.5	43	41.6	60	53.5	339	1.5	33.1
337	9/8/2021 15:06	49.2	47	61.2	59.3	48.5	42.4	41.8	59.4	53.3	339	1	32.3
338	9/8/2021 15:07	49.5	47	60.9	59	48.5	42.2	40.7	59	53.1	360	1.1	32.2
339	9/8/2021 15:08	49.1	47.1	60.5	58.8	48.5	41.9	41.1	58.7	52.9	346	1.7	32
340	9/8/2021 15:09	48.8	46.9	60.3	58.6	48	41.8	40.6	58.7	53.4	424	1.9	32.4
341	9/8/2021 15:10	48.4	46.9	60	58.3	48.6	41.8	41.1	58	52.6	345	2.1	32.3
342	9/8/2021 15:11	48.2	47	59.7	58.2	48.6	41.8	41	58.1	52.8	318	2.3	32.6
343	9/8/2021 15:12	48.3	46.9	59.5	57.9	48.6	41.6	41.3	57.5	52.5	309	1.8	32.2
344	9/8/2021 15:13	48.4	46.8	59.2	57.5	48.4	41.6	41.5	57.2	52.3	300	1.8	31.8
345	9/8/2021 15:14	48.3	46.8	59	57.4	48.4	41.5	40	57.1	52.2	296	1.1	31.8
346	9/8/2021 15:15	48	46.8	59	57.7	48.5	41.2	41.1	56.9	52.3	293	0.8	31.9
347	9/8/2021 15:16	48	46.8	58.8	57.5	48.5	41.6	40.7	56.8	52.2	291	0.5	32.3
348	9/8/2021 15:17	48.3	47.1	58.7	58	48.5	44.8	44.2	56.8	52.3	292	1.4	33.2
349	9/8/2021 15:18	48.1	47.3	58.6	58.5	48.4	46.1	44.6	57	52.4	295	1.3	33.4
350	9/8/2021 15:19	48	47.3	58.4	58.8	48.3	47.7	46.8	57.4	52.5	320	1	33
351	9/8/2021 15:20	47.8	47.5	59.1	59.2	48.4	47.9	47.2	57.7	52.7	307	1	32.9
352	9/8/2021 15:21	47.7	47.4	59.5	59.5	48.4	48.8	48.5	58	52.8	304	1.6	34.2
353	9/8/2021 15:22	47.7	47.4	59.8	60	48.4	49.5	48.2	58.3	53.1	298	1.4	34.7
354	9/8/2021 15:23	47.9	47.4	60.2	60	48.5	49.6	49.4	58.7	53.5	295	1.5	34.5
355	9/8/2021 15:24	48	47.4	60.3	60.3	48.4	49.2	48.5	59	53.5	285	1.8	33.6
356	9/8/2021 15:25	47.8	47.2	60.4	60.3	48.3	49.5	48.2	59.1	53.5	277	2.3	33.7
357	9/8/2021 15:26	48.1	47.2	60.7	60.5	48.4	49.1	48.4	59.4	53.7	272	2.5	33.4
358	9/8/2021 15:27	48.6	47.4	60.9	60.6	48.3	49.1	49	59.5	53.6	267	2.4	34.9
359	9/8/2021 15:28	48.6	47.4	61	60.4	48.3	48.5	47.6	59.7	53.5	265	2.1	33.8
360	9/8/2021 15:29	49.1	47.5	61.2	60.4	48.4	49.4	48.1	59.9	53.5	267	1.9	35.5
361	9/8/2021 15:30	49.3	47.5	61.3	60.6	48.4	48.8	48.5	60.1	53.5	259	2	34

362	9/8/2021 15:31	49.4	47.6	61.4	60.9	48.5	49	48.6	60.3	53.5	250	1.8	34.7
363	9/8/2021 15:32	49.4	47.5	61.3	60.4	48.3	49.3	48.1	60.3	53.2	239	2.1	34.6
364	9/8/2021 15:33	49.7	47.7	61.4	60.6	48.3	50.1	48.9	60.5	53.1	232	1.9	36.3
365	9/8/2021 15:34	49.9	47.8	61.5	60.3	48.3	50.2	49.7	60.6	53.1	228	1.6	35.5
366	9/8/2021 15:35	49.8	47.7	61.7	60.4	48.1	50.5	49	60.1	53.1	225	1.8	35.7
367	9/8/2021 15:36	50.1	47.7	61.6	59.8	48.3	47.1	46.3	60.7	53.1	224	2.4	34.1
368	9/8/2021 15:37	49.9	47.7	61.7	60.1	48.3	49.2	48.3	60.7	53.4	222	1.5	34.3
369	9/8/2021 15:38	49.9	47.7	61.7	60	48.3	47.8	47.5	60.7	53.4	221	1	34.4
370	9/8/2021 15:39	49.8	47.7	61.6	60	48.3	49.5	48.6	60.5	53.4	220	1.8	34
371	9/8/2021 15:40	50.2	47.8	61.7	60	48.3	50.3	50.1	60.7	53.2	219	2.6	35.5
372	9/8/2021 15:41	50.1	48	61.7	60	48.3	50.2	49.2	60.8	53.2	216	2.3	33.1
373	9/8/2021 15:42	49.8	47.9	61.8	60.2	48.3	49.5	49.1	60.8	53.2	215	2.5	33.1
374	9/8/2021 15:43	49.8	47.8	61.9	60.5	48.3	50.7	49.5	61	53.3	214	1.8	33.7
375	9/8/2021 15:44	50.6	48	62.1	60.4	48.5	50.5	49.2	61.5	53.2	212	1.9	34.3
376	9/8/2021 15:45	50.6	47.9	62.1	60.3	48.3	49.7	49.5	61.2	53.5	210	2.1	34.7
377	9/8/2021 15:46	50.6	47.8	62.2	60.4	48.3	49.9	48.7	61.2	53.6	207	2.2	35.3
378	9/8/2021 15:47	50.9	47.9	62.1	60.2	48.1	51.2	50.4	61.2	53.4	205	2.2	36
379	9/8/2021 15:48	51.1	48.3	62.1	60.3	48.2	50.6	50.3	61.4	53.4	205	1.9	33.6
380	9/8/2021 15:49	51.2	48.3	62.3	60.5	48.2	51.2	50	61.3	53.4	204	1.9	34.9
381	9/8/2021 15:50	51	48.3	62.3	60.3	48.1	51.1	49.8	61.4	53.4	203	1.5	34.7
382	9/8/2021 15:51	51.1	48.3	62.3	60.4	48.1	51.2	49.8	61.5	53.5	202	1.2	34.1
383	9/8/2021 15:52	51.4	48.1	62.3	60.4	48.1	51.7	51.6	61.8	53.7	202	1.3	36.9
384	9/8/2021 15:53	50.7	47.9	62.2	60.6	48.2	50.8	50.4	60.9	53.4	202	1.8	33.6
385	9/8/2021 15:54	50.5	48	62.5	60.6	48.2	51.2	50.4	61.5	53.7	206	2.3	35
386	9/8/2021 15:55	51	47.9	62.3	60.4	48.1	51.5	50.6	61.4	53.5	216	1.8	34.4
387	9/8/2021 15:56	50.7	48	62.3	60.3	47.8	50.9	50.4	61	53.1	247	1.2	34.9
388	9/8/2021 15:57	51.4	48.1	62.4	60.4	48.1	51.4	50.3	61.5	53.5	238	2	36.7
389	9/8/2021 15:58	51.7	48.1	62.5	60.6	48.2	50.9	50.6	61.6	53.6	324	2.1	36.5
390	9/8/2021 15:59	51.5	48.1	62.4	60.4	48.1	50.9	50.5	61.4	53.4	320	2.3	34.8
391	9/8/2021 16:00	51.5	48.1	62.3	60.3	47.7	50.6	50.3	60.8	53.8	254	2.1	35.9
392	9/8/2021 16:01	51.1	48.2	62.3	60.3	48	50.5	49.5	61.4	53.4	249	1.8	34
393	9/8/2021 16:02	50.9	48.2	62.4	60.4	48.2	50	48.5	61.4	53.5	260	2.1	34.2
394	9/8/2021 16:03	50.5	48	62.4	60.3	48.3	50.1	49.1	61	53.4	268	2.1	33.8
395	9/8/2021 16:04	50.9	48.1	62.4	60.4	48.2	50.3	50	61.2	53.4	306	1.9	33.1
396	9/8/2021 16:05	50.7	48	62.2	60.1	48.1	49.5	48.3	60.8	53.6	287	2.2	34.6
397	9/8/2021 16:06	50.2	47.9	62.2	60	48.1	48.1	47.5	61	53.2	288	1.5	33
398	9/8/2021 16:07	49.8	47.5	62	59.8	48.2	46.7	46.6	60.6	53.1	343	2.6	32.7
399	9/8/2021 16:08	49.7	47.5	61.9	59.5	48.2	46.9	45.7	60.4	53.1	349	2.3	33.6
400	9/8/2021 16:09	49.5	47.4	61.8	59.5	48.2	46.9	45.8	60.3	52.8	287	2.1	33.2
401	9/8/2021 16:10	50	47.7	61.5	59.4	48.2	47.6	47.3	60.1	52.6	270	2.6	36.2
402	9/8/2021 16:11	50.5	48	61.4	59.3	48	48	46.8	60.4	52.8	281	2.6	34.9
403	9/8/2021 16:12	50.4	47.9	61.3	59.1	48.2	48	47.9	60	52.5	282	1.7	34.5
404	9/8/2021 16:13	50.3	47.8	61.1	59	48.1	47.5	46.9	60	52.5	308	2.3	33.8
405	9/8/2021 16:14	50.4	48	61.1	59.1	48.1	48.5	47	59.8	52.5	311	3.3	33.9
406	9/8/2021 16:15	50.6	48	61.1	59	48.1	48.7	48.3	59.8	52.5	276	2.4	35.8
407	9/8/2021 16:16	50.4	47.8	61.1	59.1	48	48.3	47.7	60	52.9	319	2.3	35
408	9/8/2021 16:17	50.2	47.8	60.9	59.1	48.1	48.1	46.9	59.7	52.6	363	2.1	36.2
409	9/8/2021 16:18	49.9	47.7	60.8	58.8	48.1	47.7	47.2	59.4	52.6	330	2.4	35.1
410	9/8/2021 16:19	49.6	47.5	60.6	58.7	47.9	47.5	46.4	58.9	52.2	296	2.2	34.6
411	9/8/2021 16:20	49.8	47.6	60.7	58.5	47.9	47.7	47.3	59.4	52.6	305	2.6	34.3
412	9/8/2021 16:21	49.8	47.5	60.5	58.3	48	46.8	45.4	59.1	52.5	386	1.8	35
413	9/8/2021 16:22	50.1	47.7	60.4	58.4	48.1	48.3	46.8	59.1	52.6	404	2.1	35.5
414	9/8/2021 16:23	50.4	47.8	60.3	58.3	48.1	47.5	46.4	59.1	52.4	401	2.2	35.2

415	9/8/2021 16:24	50.1	47.6	59.9	58	47.9	46.1	45.7	58.6	52.1	395	2.4	35
416	9/8/2021 16:25	50.3	47.6	60	58	48.3	46.2	45.6	58.6	52.5	386	1.7	34.2
417	9/8/2021 16:26	50.2	47.4	59.7	57.6	47.9	46.5	45.3	58.1	52.1	234	1.3	36
418	9/8/2021 16:27	50	47.7	59.7	57.6	48.6	46.6	45.6	58.3	52.6	360	1.2	34.4
419	9/8/2021 16:28	49.9	47.7	59.4	57.5	48.1	46.1	44.7	58.2	52.1	355	2	33.6
420	9/8/2021 16:29	50	47.8	59.4	57.4	48.1	46	45.1	58.1	52.1	298	2.2	35.1
421	9/8/2021 16:30	49.8	47.4	59.1	57	48	45.4	44.9	57.5	52	336	2	34.4

Pelat absorber V dengan PCM storage

No	WAKTU	T-MASUK (Tin)	T-KELUAR (Tout)	T-PARAFIN (Tpf)	T-PLAT DATAR (Tpl)	T-TANGKI (Tt)	T-KACA LUAR (Tkl)	T-KACA DALAM (Tkd)	INTENSITAS MATAHARI (I)	KECEPATAN ANGIN (v)	T-LINGKUNGAN (°C)
1	9/8/2021 9:30	36.5	49.4	45.7	72.6	32.7	58.8	58.7	275	3.1	31.8
2	9/8/2021 9:31	36.3	49.5	45.8	72.6	32.6	59.7	59	277	2.5	33.1
3	9/8/2021 9:32	36.6	50	46	73.2	32.6	60.8	59.6	280	2.8	33.7
4	9/8/2021 9:33	36.6	50.5	46.1	73.4	32.6	61.8	61.1	284	2.9	34.9
5	9/8/2021 9:34	36.7	50.6	46.1	73.7	32.4	61.8	61.3	289	2.9	33.4
6	9/8/2021 9:35	36.8	51.1	46.5	74	32.7	63.1	62.3	296	3.2	37.3
7	9/8/2021 9:36	37.4	51.5	46.6	74.2	32.7	64.1	63.8	304	2.5	35.6
8	9/8/2021 9:37	37.1	51.8	46.9	74.6	32.6	64.5	63	314	2.2	34
9	9/8/2021 9:38	37	52.4	47.2	75	32.8	64.8	64.1	323	3.4	40.1
10	9/8/2021 9:39	37	52.1	47.3	75.2	32.8	63.2	62.8	334	2.8	34
11	9/8/2021 9:40	36.7	52	47.3	75.5	32.7	63.1	62.3	348	2.4	33
12	9/8/2021 9:41	36.8	52.3	47.5	75.8	32.6	64.4	63.7	367	2.8	35.5
13	9/8/2021 9:42	36.8	52.1	47.7	75.8	32.6	62.8	61.9	386	2.4	33
14	9/8/2021 9:43	36.8	52.2	47.9	76.1	32.6	64.4	64.3	370	2.2	32.6
15	9/8/2021 9:44	36.7	52	48	76.1	32.6	61.8	61.4	354	2.5	31.6
16	9/8/2021 9:45	36.8	52.4	48.4	76.4	32.7	63.6	62.7	347	2	33.3
17	9/8/2021 9:46	36.9	52.7	48.6	76.5	33.1	65.3	63.9	341	1.9	34
18	9/8/2021 9:47	36.9	53.3	48.7	76.8	32.7	66.9	66.4	336	2.5	36.7
19	9/8/2021 9:48	36.8	53.7	48.9	76.7	32.8	66.9	66.3	332	2.8	34.6
20	9/8/2021 9:49	36.9	53.7	48.9	77	32.7	65.9	65.3	330	2.4	33.9
21	9/8/2021 9:50	36.8	53.8	49.2	77	32.8	63.8	63.5	330	2.5	32.2
22	9/8/2021 9:51	36.7	53.7	49.4	77	32.8	63.7	62.3	333	2.2	33.9
23	9/8/2021 9:52	36.8	53.5	49.7	77.4	32.8	62	61	338	2.2	33.3
24	9/8/2021 9:53	36.7	53.3	49.8	77.4	32.8	62.3	60.8	344	1.7	34.2
25	9/8/2021 9:54	36.6	53.1	50.1	77.3	32.8	60.4	59.1	353	1.9	33.7
26	9/8/2021 9:55	36.7	53.2	50.7	77.4	32.8	61.8	60.5	369	2.3	34.2
27	9/8/2021 9:56	36.7	53.6	51.4	77.7	32.9	64.3	63.1	382	2	35.3
28	9/8/2021 9:57	36.8	53.5	51.7	77.4	32.9	63.1	61.8	389	2.1	34.5
29	9/8/2021 9:58	36.8	53.9	52.2	77.7	32.9	63.7	63.2	387	1.3	34.9
30	9/8/2021 9:59	36.7	54.3	52.5	78	32.9	64	63.7	391	1.6	35.9
31	9/8/2021 10:00	36.8	54.6	53.1	78.3	32.9	65.5	64.1	388	1.2	34.5
32	9/8/2021 10:01	37	55.1	53.5	78.3	33.2	65.2	64.8	388	1.7	34.4
33	9/8/2021 10:02	36.8	54.9	53.9	78.3	32.9	66	64.9	389	1.9	35.8
34	9/8/2021 10:03	37	55.1	54.6	78.9	32.9	59	58.8	395	1.4	32.4
35	9/8/2021 10:04	36.7	54.5	54.9	79	32.9	58.8	58.1	400	1.9	31.9
36	9/8/2021 10:05	36.6	54.3	55.2	78.7	32.8	61.5	60.2	405	1.4	33
37	9/8/2021 10:06	36.7	54.2	55.8	78.9	32.9	54	53.4	408	1.6	32.5
38	9/8/2021 10:07	36.6	54	56	78.7	32.8	57.6	57	408	1.7	32.4
39	9/8/2021 10:08	36.5	54	56.1	79	33	55.2	55.1	405	1.7	34.2
40	9/8/2021 10:09	36.6	53.7	56.4	78.9	32.9	54.8	54.5	401	1.7	32.6
41	9/8/2021 10:10	36.7	54.3	56.5	79.1	33	55.9	55.2	396	1.7	32.8
42	9/8/2021 10:11	36.6	54.5	56.8	78.9	32.9	60.1	60	391	1.3	33.8
43	9/8/2021 10:12	36.6	55	57	79.2	33	64.9	64.1	385	1.1	35.7
44	9/8/2021 10:13	36.5	55.1	57.3	79.4	32.9	63.8	63	381	1.1	34.5
45	9/8/2021 10:14	37.2	55.8	57.8	79.8	33.2	58.3	56.9	378	1.1	33.5
46	9/8/2021 10:15	36.8	55.5	57.9	80	32.9	52.5	52.1	377	1.8	34.7

47	9/8/2021 10:16	36.8	55.4	58.2	80.1	33.1	53.5	53.4	374	2	32.7
48	9/8/2021 10:17	36.7	55.3	58.6	80.4	33	57.6	56.8	370	1.9	33.9
49	9/8/2021 10:18	37	55.2	58.8	80.7	32.9	53.4	52	366	1.7	33.9
50	9/8/2021 10:19	36.8	55.4	59.2	80.4	33	52.1	51	363	1.6	34.6
51	9/8/2021 10:20	36.8	55.3	59.5	80.7	33	50.3	49	362	1.7	34.2
52	9/8/2021 10:21	36.5	55.4	59.8	80.9	32.9	55.4	55.1	363	1.4	33.8
53	9/8/2021 10:22	35.5	53.5	59.7	81.1	33.1	55.8	55.1	371	2	33.9
54	9/8/2021 10:23	35	55.6	60.1	81.2	32.9	51.4	50.9	383	2.4	32.9
55	9/8/2021 10:24	36.3	55.7	60.4	81.4	33.1	49.7	49.6	396	2.6	33
56	9/8/2021 10:25	36.8	55.4	60.9	81.5	33.1	53.5	52.3	408	2.8	32.9
57	9/8/2021 10:26	36.9	55.8	61.1	81.4	33.3	48	46.6	416	2.5	34.1
58	9/8/2021 10:27	37.3	55.5	61.4	81.2	33.2	50.1	50	420	3	34.9
59	9/8/2021 10:28	37.3	55.6	61.6	81.5	33.2	49.5	48.5	417	2.4	34.2
60	9/8/2021 10:29	37.3	55.8	61.7	81.7	33.2	56.9	56.2	407	2.8	34.4
61	9/8/2021 10:30	37.3	55.7	62	81.6	33.2	48.8	48.4	400	2.6	33.9
62	9/8/2021 10:31	37.3	55.7	62.3	81.7	33.1	52.6	51.5	393	2.4	33.5
63	9/8/2021 10:32	37.5	55.8	62.7	82.1	33.2	50.3	49	386	3.6	34.4
64	9/8/2021 10:33	37.3	55.4	62.9	82.3	33.1	46	44.6	382	3.4	34.4
65	9/8/2021 10:34	37.1	55.7	63.3	82.1	33	51.1	50.9	381	3.3	33.4
66	9/8/2021 10:35	37.7	56	63.3	82	33.2	54	52.6	383	2.4	34.4
67	9/8/2021 10:36	37.6	56.1	63.4	82.3	33.3	51.1	50.2	393	2.4	33.8
68	9/8/2021 10:37	37.7	56.3	63.6	82.8	33.3	47.4	46.8	408	2.9	34.7
69	9/8/2021 10:38	37.4	56.1	63.7	82.6	33.1	54.1	53.4	411	2.9	34.5
70	9/8/2021 10:39	37.7	56.4	63.8	83	33.2	56.4	55.8	413	2.1	35.7
71	9/8/2021 10:40	37.5	56.6	63.9	83.1	33.2	55.2	53.7	418	2.1	33.9
72	9/8/2021 10:41	37.6	56.9	63.7	83.2	33.1	54.6	53.8	416	2.5	36.5
73	9/8/2021 10:42	37.7	57	63.9	83.6	33.2	49.4	49.2	390	2.3	35.2
74	9/8/2021 10:43	37.6	56.9	64	83.9	33.2	50.7	49.4	353	1.3	35.1
75	9/8/2021 10:44	37.5	56.4	64.4	83.4	32.9	51.9	50.6	324	2.8	37.3
76	9/8/2021 10:45	37.6	56.5	64.6	83.9	32.9	51.2	50	303	2.3	35.9
77	9/8/2021 10:46	37.7	56.8	64.9	84.3	33.2	55.7	54.9	292	2.1	37.7
78	9/8/2021 10:47	37.7	56.8	65.2	84.3	33	51.1	51	300	2.9	35.2
79	9/8/2021 10:48	37.5	57.2	64.1	84.6	33.1	53.9	53.4	330	2.3	39.1
80	9/8/2021 10:49	37.7	57.4	64.1	84.4	33.2	55.6	54.6	383	2	39.9
81	9/8/2021 10:50	37.8	57.9	63.9	84.7	33.2	55.4	54.3	419	2.4	38.6
82	9/8/2021 10:51	37.8	58.1	64.8	85.4	33.2	54.7	53.9	496	2.9	37.3
83	9/8/2021 10:52	37.8	58	65.2	85.5	33.1	48.7	47.4	516	3.1	35
84	9/8/2021 10:53	37.7	57.5	65.5	85.3	33.2	45.1	43.9	560	2.9	35.5
85	9/8/2021 10:54	37.7	57.5	65.8	85.6	33.3	49.5	48.2	646	3.2	35
86	9/8/2021 10:55	37.3	56.8	66.1	85.1	33.3	47	45.6	749	3.1	35
87	9/8/2021 10:56	37.7	57	66.4	85.3	33.1	47.6	46.8	653	2.3	33.9
88	9/8/2021 10:57	37.6	57.5	66.9	85.4	33.4	52.5	51.8	524	3	35.3
89	9/8/2021 10:58	37.8	58.1	66.9	85.6	33.2	55.2	55.1	480	3.3	36
90	9/8/2021 10:59	38	58.8	67.2	85.7	33.4	51.8	50.4	419	2.5	35.5
91	9/8/2021 11:00	37.9	58.6	67.3	85.1	33.3	48.9	48.1	426	2.4	36.5
92	9/8/2021 11:01	37.6	58.6	67.6	86	33.4	48.1	46.7	422	2.4	34.7
93	9/8/2021 11:02	38.1	59.1	67.8	85.6	33.6	51	49.7	455	2.4	38.2
94	9/8/2021 11:03	37.8	58.5	68.1	86	33.2	49.9	48.7	428	3.2	35.4
95	9/8/2021 11:04	37.9	58.8	68.2	86.9	33.3	44.9	43.4	432	2.6	33.9
96	9/8/2021 11:05	37.7	58.5	68.6	86.6	33.4	49.7	49.6	440	2.6	34.7

97	9/8/2021 11:06	37.7	58.4	68.6	86.6	33.4	47.1	46.9	498	2.5	36
98	9/8/2021 11:07	38.3	58.2	69	86.7	33.2	47.7	46.2	551	1.9	34.4
99	9/8/2021 11:08	37.8	58.8	69.3	87.3	33.5	52.7	51.4	543	2.4	34.4
100	9/8/2021 11:09	38.3	59.7	69.6	87	33.5	52.9	51.7	802	1.6	39.1
101	9/8/2021 11:10	37.9	59.1	70	87.3	33.4	48.2	47.6	462	1.6	36.2
102	9/8/2021 11:11	37.7	59.6	70.5	87.5	33.5	54	53.4	578	1.6	38.1
103	9/8/2021 11:12	38.4	60.5	70.9	87.5	33.7	55.2	54.2	940	2	38.5
104	9/8/2021 11:13	38.1	60.2	71.4	88.4	33.5	53.4	52.5	751	2	35
105	9/8/2021 11:14	38.2	60.4	71.7	88.1	33.2	50.7	50.2	819	1.9	36.7
106	9/8/2021 11:15	38.1	60.3	72.2	88.4	33.4	46.6	45.4	762	1.8	36
107	9/8/2021 11:16	38.1	60.4	72.6	88.9	33.5	51.3	51.1	985	1.8	35.8
108	9/8/2021 11:17	38.3	60.8	73.1	89.6	33.6	49.8	48.7	822	1.8	37
109	9/8/2021 11:18	38.2	60.8	73.3	90	33.6	53.8	52.6	612	1.9	37.8
110	9/8/2021 11:19	38.1	61.1	73.5	89.7	33.5	49.5	48.7	532	2.5	36.7
111	9/8/2021 11:20	37.8	60.8	73.8	90	33.3	50.4	49.2	738	2.3	37.3
112	9/8/2021 11:21	38	60.4	74.1	90.7	33.7	49.8	48.9	962	2.3	35.7
113	9/8/2021 11:22	38	60	74.4	90.7	33.4	50.9	50.7	739	2.2	34.7
114	9/8/2021 11:23	38.2	60	74.8	90.6	33.7	48.1	47.6	762	2.2	35.4
115	9/8/2021 11:24	38.1	60	75	91	33.7	50.9	50.2	841	1.4	36.5
116	9/8/2021 11:25	38.3	60.4	75.3	92	33.8	53.2	52.7	908	1.7	35.4
117	9/8/2021 11:26	38.3	61.1	75.6	92.5	33.7	50	49.2	862	1.9	36
118	9/8/2021 11:27	38	61.1	75.8	91.1	33.6	46.9	46.1	625	1.5	35.2
119	9/8/2021 11:28	38	60.8	76	90.5	33.6	45.4	43.9	775	0.8	34.5
120	9/8/2021 11:29	38	60.5	76.2	92.7	33.6	52.6	51.3	693	1.4	37.7
121	9/8/2021 11:30	38.3	61.2	76.6	93.3	33.7	50.6	49.2	726	2.6	36.5
122	9/8/2021 11:31	38.5	61.7	76.8	93.4	33.4	47.8	46.5	730	2.6	36.9
123	9/8/2021 11:32	38.3	61.5	77	94.1	33.6	45.3	44.8	751	2.3	34.3
124	9/8/2021 11:33	38.3	61.6	77.5	93	33.9	48.4	47.6	687	1.9	33.6
125	9/8/2021 11:34	38.1	62	77.7	94	33.7	42.6	41.5	619	1.1	34.8
126	9/8/2021 11:35	38.1	62	78	94.4	33.6	46.4	45.2	597	0.9	35
127	9/8/2021 11:36	38.4	61.6	78.2	93.2	33.9	41.4	40.4	578	1.7	33.4
128	9/8/2021 11:37	38.1	61.1	78.7	92.4	33.9	38	37.5	582	2.7	34.4
129	9/8/2021 11:38	38	61.4	78.7	91.6	33.7	40.8	39.4	592	1.9	34.4
130	9/8/2021 11:39	38	59.8	78.9	90.1	33.7	36.3	35.6	631	2.3	34.1
131	9/8/2021 11:40	38	58.3	79.1	89.6	33.9	36.7	36.3	576	1.8	34.2
132	9/8/2021 11:41	38	56.9	79.2	88.8	33.9	36.2	35.1	557	2.1	34.1
133	9/8/2021 11:42	38	59.3	79.1	88.7	33.8	39.3	38.5	600	2.6	33.4
134	9/8/2021 11:43	38	60.6	79	90.7	33.7	43.5	43	543	2.7	36.4
135	9/8/2021 11:44	38.5	61.2	79	90	33.9	43.5	43.2	557	2.6	36
136	9/8/2021 11:45	38.1	62	79.2	91.4	33.7	44	43.3	540	2.6	36.1
137	9/8/2021 11:46	38.1	62	79.4	91.8	33.9	41.1	39.6	556	2.5	34.5
138	9/8/2021 11:47	38.5	60.5	79.3	92.6	33.7	41.7	40.4	592	1.5	34.1
139	9/8/2021 11:48	38.1	61.1	79.5	93.3	33.7	42.6	42.1	658	1.6	33.9
140	9/8/2021 11:49	38.2	62.1	79.8	90.5	33.9	41.6	40.5	667	1.5	33.6
141	9/8/2021 11:50	38	60.4	79.8	88.6	33.9	40.1	39.7	722	1.9	33.4
142	9/8/2021 11:51	38	61.8	80	91	34.2	41.9	40.9	553	1.7	35
143	9/8/2021 11:52	38.2	62.5	80	94.1	34	46	44.9	562	1.3	36.5
144	9/8/2021 11:53	38.4	63.5	80.1	93.6	33.9	45.8	44.6	458	1.4	37.2
145	9/8/2021 11:54	38.6	63.2	80.4	94.1	34	40.5	39.1	427	2.4	35.3
146	9/8/2021 11:55	38.3	63.7	80.4	92.7	33.9	38.9	37.6	414	2.4	34.3

147	9/8/2021 11:56	38.3	62.3	80.8	93.8	34.1	36.8	35.5	398	1.7	32.5
148	9/8/2021 11:57	38.3	63.2	81	96.6	34.1	38.8	38.1	391	2.2	35.5
149	9/8/2021 11:58	38.1	62.9	81.1	96.3	34	41.4	41	384	2.2	33.6
150	9/8/2021 11:59	38.3	63.5	81.4	97	33.9	40.9	40.4	422	1	33.9
151	9/8/2021 12:00	38.1	63.8	81.8	96.1	34.2	45.3	45.1	391	1.2	35.9
152	9/8/2021 12:01	38.3	64.9	81.8	95.8	34	40.3	40.1	408	0.9	36.2
153	9/8/2021 12:02	38.2	64	82.2	94.6	34.2	38.8	38.3	347	1.1	35.5
154	9/8/2021 12:03	38.3	65.1	82.4	96	34.2	40.1	39.6	334	1.8	33.8
155	9/8/2021 12:04	38	63.1	82.6	93.8	34.1	36.2	34.9	381	2.8	32.4
156	9/8/2021 12:05	38	63.2	82.9	93.9	34.2	38.4	37.2	409	1.4	33.1
157	9/8/2021 12:06	38.1	62	82.9	95.5	34.5	40.4	39.1	424	1.6	34.3
158	9/8/2021 12:07	38.3	65.4	83.2	96.9	34.3	39.9	38.7	444	1.4	35.1
159	9/8/2021 12:08	37.8	61.8	83.3	89.5	34.1	39.6	38.6	513	1	33.6
160	9/8/2021 12:09	37.7	64.1	83.3	91.8	34.2	41.1	40.4	522	1.1	34.2
161	9/8/2021 12:10	37.8	63.7	83.3	94.3	34.1	36	35.1	500	1.4	33.7
162	9/8/2021 12:11	38	64	83.5	94.7	34.2	38	37.2	527	1.8	35.1
163	9/8/2021 12:12	38.1	63.4	83.6	95.2	34.2	38.6	37.9	558	1.7	32.7
164	9/8/2021 12:13	38	64.5	83.8	95.6	34.4	38.9	38.6	577	1.1	33.2
165	9/8/2021 12:14	38	63.4	84	95.7	34.3	39.2	38.5	568	0.9	33.1
166	9/8/2021 12:15	38	64.1	84	95.6	34.3	39.3	38	569	0.9	33.1
167	9/8/2021 12:16	38	66	84.1	96.4	34.2	39.1	38.5	538	1.2	36.2
168	9/8/2021 12:17	38.1	64.3	84.2	96.5	34.1	39.1	38.7	522	1.5	33.4
169	9/8/2021 12:18	38.1	62.6	84.4	96.7	34.4	38.6	38.1	487	1.7	35.3
170	9/8/2021 12:19	37.9	64.1	84.4	94.2	34.1	39.3	38.4	485	1.3	34.4
171	9/8/2021 12:20	37.8	63.6	84.4	88.9	34.2	36.7	36.6	498	1.4	32.6
172	9/8/2021 12:21	37.8	65.1	84.4	93	34.3	38.6	38.3	510	1.6	33.2
173	9/8/2021 12:22	37.9	63.4	84.3	94.5	34.3	41.4	40.4	499	1.6	34.9
174	9/8/2021 12:23	38	63.7	84.4	94.7	34.4	40.7	39.5	557	2	34.9
175	9/8/2021 12:24	37.9	64	84.4	95.1	34.3	37.5	37.4	549	1.3	32.6
176	9/8/2021 12:25	37.7	63.3	84.5	92.3	34.5	38.6	37.7	562	1.2	33.4
177	9/8/2021 12:26	38.1	64.4	84.4	95.6	34.2	39.8	38.6	524	1.3	34.5
178	9/8/2021 12:27	37.9	65.3	84.6	96.4	34.3	42	41.2	515	1	34.1
179	9/8/2021 12:28	38.2	62.4	84.6	96.8	34.4	42.9	42.2	515	1	35.7
180	9/8/2021 12:29	38.3	63.7	84.7	96.8	34.4	42.3	42.1	499	1.4	36.5
181	9/8/2021 12:30	38.3	65.4	84.7	96.6	34.2	38	37.2	597	1.3	37
182	9/8/2021 12:31	38.1	64.9	84.8	95.6	34.2	37.6	36.4	651	0.8	34.4
183	9/8/2021 12:32	38.3	64.7	85	96.4	34.5	38	36.7	644	0.5	35.2
184	9/8/2021 12:33	38.3	63.5	85.1	96.2	34.4	42	41.4	792	1.4	35.4
185	9/8/2021 12:34	38.2	65.4	85.1	97.1	34.2	39.9	39.1	727	1.2	34.5
186	9/8/2021 12:35	38.3	65.6	85.3	97.3	34.4	38.1	37.3	824	0.9	33.7
187	9/8/2021 12:36	38.1	64.7	85.4	97	34.3	38	37.2	718	1.3	33.2
188	9/8/2021 12:37	38.3	65.1	85.7	98.3	34.4	40.1	39.1	552	1.4	33.9
189	9/8/2021 12:38	38.3	65.4	85.7	97.3	34.4	39.8	38.4	491	1.4	36.5
190	9/8/2021 12:39	38.1	64.1	85.7	98	34.3	40	39.5	457	0.8	34.4
191	9/8/2021 12:40	38.3	65.5	86	97.3	34.4	41.1	40.3	495	0.8	34.9
192	9/8/2021 12:41	37.9	64.5	86.1	97.6	34.4	38.5	38.2	494	0.6	33.5
193	9/8/2021 12:42	38	64.5	86.2	98	34.4	38	37.3	601	1.8	33.1
194	9/8/2021 12:43	38.1	62	86.4	98.5	34.4	40.8	40	588	1	36.8
195	9/8/2021 12:44	39	62.6	86.6	98.7	34.7	38.6	37.8	579	1.8	33.4
196	9/8/2021 12:45	42.2	65.8	86.6	98	34.5	40.4	39.5	526	2.2	34.5

197	9/8/2021 12:46	40.4	62.1	86.7	98.3	34.4	40.3	39.2	532	1.7	33.5
198	9/8/2021 12:47	39.8	62.9	86.7	98	34.6	39.4	39.2	511	1.1	34.9
199	9/8/2021 12:48	41.8	66.6	86.9	97.6	34.6	41.9	41.3	522	1.3	34.9
200	9/8/2021 12:49	40.9	65.9	87	97.6	34.7	37.6	36.8	520	2.3	33.6
201	9/8/2021 12:50	42	62.6	86.9	99.2	34.4	41.7	40.3	511	1.6	35.4
202	9/8/2021 12:51	40.1	64.3	87.1	98.9	34.7	36.7	36.4	540	1.3	33.4
203	9/8/2021 12:52	41.2	64.6	87.1	97.6	34.7	40.9	39.5	574	1.5	37.2
204	9/8/2021 12:53	41.5	61.9	87.3	98	34.8	38.1	37	718	1.6	33.7
205	9/8/2021 12:54	39.3	61.6	87.2	98.4	34.4	37	36.3	645	2	34
206	9/8/2021 12:55	41.2	65.8	87.4	97.9	34.9	43.7	43.1	596	2.1	36.2
207	9/8/2021 12:56	41.1	64	87.3	97.8	34.8	41.8	41.1	559	1.6	36.5
208	9/8/2021 12:57	40.6	65.2	87.3	97.7	34.8	39.6	39.5	536	0.8	35.9
209	9/8/2021 12:58	41.2	62	87.3	98	34.8	38.6	38.5	507	1.3	34.2
210	9/8/2021 12:59	40.8	62.3	87.4	98.4	34.8	42.3	41.2	504	0.9	38.6
211	9/8/2021 13:00	39.4	64.3	87.4	99	34.7	40.3	40	566	2.1	34.9
212	9/8/2021 13:01	39.4	62	87.5	98	34.7	38.3	37	574	2.1	33.4
213	9/8/2021 13:02	41.6	63.8	87.6	97.5	35	37	35.5	606	2.2	33.5
214	9/8/2021 13:03	40.8	63	87.7	99	35	39.9	39.3	683	2.4	33.9
215	9/8/2021 13:04	40.4	64.2	87.5	97.3	34.8	37.5	37	619	2.7	33.9
216	9/8/2021 13:05	40.6	61	87.6	97.3	35	36.7	35.6	613	1.7	34.9
217	9/8/2021 13:06	41.8	61.1	87.8	96.9	35.2	40.9	40.7	623	1.7	35
218	9/8/2021 13:07	41.9	61.7	87.7	98.3	34.9	40.3	39.7	741	1.6	33.5
219	9/8/2021 13:08	42.2	61.5	87.7	97.2	35.1	37.8	37	741	1.7	33.9
220	9/8/2021 13:09	42.3	60.7	87.8	98.6	35.2	41.2	40.2	828	1.6	34.3
221	9/8/2021 13:10	41.2	61	87.7	97	35.2	42	41.2	745	1.7	34.1
222	9/8/2021 13:11	40.9	62.8	87.8	98.4	35.3	40.6	39.4	684	1.2	34.8
223	9/8/2021 13:12	40.1	63.7	87.7	98.3	35.2	41.1	40	655	1.5	34.2
224	9/8/2021 13:13	40.8	63.9	87.8	97.6	35.4	38.8	38.3	656	2.6	35
225	9/8/2021 13:14	40.8	64.1	87.7	98.3	35.4	39.9	38.6	738	2.4	34.8
226	9/8/2021 13:15	40.1	63	87.7	98.7	34.9	39.3	38.2	665	1.5	33.9
227	9/8/2021 13:16	39.3	62.4	87.7	99.8	35.2	40.4	39.6	628	1.9	34.5
228	9/8/2021 13:17	39.9	61.1	87.8	99.2	35.5	38.3	36.8	562	2	33.9
229	9/8/2021 13:18	39.9	62	87.7	93	35.2	37.5	36.1	669	2.9	35.4
230	9/8/2021 13:19	40.8	59.8	87.5	90	35.2	40.8	40.3	708	2.6	34.9
231	9/8/2021 13:20	39.6	61.8	87.4	92.2	35.2	40	39.9	667	2.1	35.7
232	9/8/2021 13:21	39	63.4	87.1	92.4	35.2	35.9	35.4	614	2.2	32.3
233	9/8/2021 13:22	38.6	62.6	87.2	92	35.4	39.4	38.8	667	1.7	33.5
234	9/8/2021 13:23	37.9	60.3	86.8	87.1	35.3	35.9	35.7	704	2	32.8
235	9/8/2021 13:24	37.8	62.1	86.6	90.2	35.4	38.7	37.5	708	2.1	33.6
236	9/8/2021 13:25	37.8	60	86.2	92.3	35.4	35.6	35.2	532	1.7	33.1
237	9/8/2021 13:26	37.8	61.1	86.1	90.7	35.4	35.2	33.8	716	1.8	33.9
238	9/8/2021 13:27	37.7	60	85.8	90.9	35.2	38.1	37.6	603	2	34.1
239	9/8/2021 13:28	37.8	62.1	85.7	94.2	35.4	39.8	39.4	664	2.1	33.9
240	9/8/2021 13:29	38	62.1	85.6	93	35.2	39.9	38.5	639	2	33.9
241	9/8/2021 13:30	38	61.1	85.5	96.1	35.1	35.7	35.1	822	2	33.8
242	9/8/2021 13:31	38	59.2	85.3	94.3	35.2	36.4	34.9	728	1.8	34.9
243	9/8/2021 13:32	37.8	62.4	85.3	87.9	35.2	35.6	34.8	862	2.3	33.9
244	9/8/2021 13:33	37.5	61.9	85.2	85.8	35.2	37	36.7	800	1.7	32.4
245	9/8/2021 13:34	37.6	60.8	85	88.1	35.4	36	35.6	829	1.9	33.1
246	9/8/2021 13:35	37.3	60.5	84.7	91.3	35.4	36	35.7	835	2.1	32.3

247	9/8/2021 13:36	37.4	60.9	84.5	92.1	35	36	34.6	840	1.7	34.3
248	9/8/2021 13:37	37.7	60.6	84.5	93.5	35.2	35.7	35.3	845	2.1	32.8
249	9/8/2021 13:38	37.8	60.3	84.4	93.5	35.4	41.9	40.8	842	1.7	34
250	9/8/2021 13:39	37.9	61	84.4	93.6	35.4	40.9	39.7	850	1.9	35.2
251	9/8/2021 13:40	38	60.4	84.3	93.6	35.8	43.4	41.9	789	1.8	36.3
252	9/8/2021 13:41	38.1	61.7	84.3	93.7	35.4	38.1	36.6	759	1.3	33.9
253	9/8/2021 13:42	38	61.4	84.2	95.3	35.5	35.6	34.8	685	3.2	33.8
254	9/8/2021 13:43	38.1	61.3	84.3	95.8	35.3	40.6	40.3	771	2.2	35.4
255	9/8/2021 13:44	38.3	63.2	84.3	93.8	35.4	42.2	41.4	629	1.5	36.5
256	9/8/2021 13:45	38.3	62.8	84.2	94.2	35.2	44.8	43.8	458	2.6	35.5
257	9/8/2021 13:46	38.1	62	84.2	90.9	35.2	36.2	36.1	523	1.8	33
258	9/8/2021 13:47	38	60.3	84.3	89.8	35.4	40.6	39.7	613	1.6	33.9
259	9/8/2021 13:48	37.9	63	84.1	88.3	35.2	42.3	41	350	1.5	36.1
260	9/8/2021 13:49	37.9	64.1	84.1	93	35.3	39.2	38.9	314	1.3	34.4
261	9/8/2021 13:50	37.7	60.6	83.9	91.3	35.2	35.9	35	378	0.9	33
262	9/8/2021 13:51	37.5	61.1	83.9	83.8	35.3	37.9	37.7	499	1.1	33.1
263	9/8/2021 13:52	37.5	60.6	83.5	83.2	35.1	36.9	36.5	519	1.1	33.9
264	9/8/2021 13:53	37.5	61.1	83.3	82.1	35.3	35	34.2	551	1.3	32.3
265	9/8/2021 13:54	37.5	60.3	82.9	88.5	35.3	37.6	36.2	600	0.9	33
266	9/8/2021 13:55	37.5	59.5	82.7	89.6	35.3	40.1	39.5	557	0.9	33
267	9/8/2021 13:56	37.9	60.8	82.7	90.9	35.2	36	35.9	573	0.9	34.3
268	9/8/2021 13:57	38	60.6	82.6	90.3	35.5	38.4	37.6	598	2	33.7
269	9/8/2021 13:58	37.8	59.4	82.4	90.1	35.3	38.3	37.3	553	2.5	34
270	9/8/2021 13:59	38.2	61.5	82.4	91.2	35.2	39.3	38.9	610	0.9	35.5
271	9/8/2021 14:00	37.8	60.8	82.3	92	34.9	40.2	40	589	0.6	34.2
272	9/8/2021 14:01	38.2	61.4	82.4	91.2	35.3	40.8	39.4	641	0.8	35.8
273	9/8/2021 14:02	38.2	59.7	82.3	92.3	35.3	38.6	37.4	654	1.9	34.1
274	9/8/2021 14:03	38.3	61.5	82.4	91.5	35.4	42.2	41.9	654	1.9	34.3
275	9/8/2021 14:04	38.1	60.8	82.3	91.3	35.2	38.9	38.2	625	2	33.5
276	9/8/2021 14:05	38.1	60.9	82.2	92.4	35	41.3	41.2	617	1.6	34.4
277	9/8/2021 14:06	38	61.4	82.2	89.7	35.2	36.9	35.9	611	1.4	34.1
278	9/8/2021 14:07	38	60.9	82.3	88.7	35.4	39.1	38.4	710	1.4	34.5
279	9/8/2021 14:08	38	62	82.2	90.7	35.1	38	37.3	649	2.4	33.5
280	9/8/2021 14:09	37.9	60	82.2	89.8	35.4	36.8	36.2	877	1.9	34.1
281	9/8/2021 14:10	38	60.5	82.1	89.2	35.1	38.1	37.6	823	2.2	34.1
282	9/8/2021 14:11	38	59.8	82.2	89.9	35.4	38.6	37.1	713	3.1	33.8
283	9/8/2021 14:12	38	59.8	82	91	35.2	42.9	42.6	661	2.3	34.2
284	9/8/2021 14:13	38	61.1	81.9	90.3	35.1	38.8	38.5	601	2.3	33
285	9/8/2021 14:14	38	60.9	82	91.8	35.3	40.8	40.2	670	2.3	33.9
286	9/8/2021 14:15	38	60.9	82	91.7	35.3	39	38.1	665	1.8	35.5
287	9/8/2021 14:16	38.1	60.7	81.9	90.7	35.3	39.6	39.5	619	2.5	35
288	9/8/2021 14:17	38.1	61.5	82	91.2	35.3	42.7	41.6	682	2	34.9
289	9/8/2021 14:18	38.1	62.3	81.9	91	35.2	40.1	38.7	604	2.3	33.5
290	9/8/2021 14:19	38.1	61.5	82	91.4	35.2	37.7	36.3	633	2	34.3
291	9/8/2021 14:20	38.2	62.7	82	91.7	35.4	41.8	40.3	630	2.7	34.9
292	9/8/2021 14:21	38.2	61.4	82	91.8	35.1	40.1	39	625	1.8	34.1
293	9/8/2021 14:22	38.1	62.3	82	92.1	35.1	40.6	40.5	646	2.6	35.3
294	9/8/2021 14:23	38.4	62.8	82	91.5	35.4	42.6	42.2	670	2.2	37
295	9/8/2021 14:24	38.3	62.3	82	91.2	35.4	39.7	39.5	697	2	34.5
296	9/8/2021 14:25	38.6	62.4	82	92.4	35.4	41.8	41.6	708	1.8	35.2

297	9/8/2021 14:26	38.3	61.9	82	92.6	35.2	45.2	43.7	598	2.6	35
298	9/8/2021 14:27	38.3	62.4	82	92.6	35.1	43.1	41.8	742	2.3	35.4
299	9/8/2021 14:28	38.5	62.3	82.2	93.8	35.2	40.7	39.2	646	2.9	35.4
300	9/8/2021 14:29	38.4	61.7	82.2	86.8	35.4	39.6	38.8	542	2.8	33.7
301	9/8/2021 14:30	38.2	61.6	82.3	83.3	35.4	39.6	39.4	504	2.6	35.7
302	9/8/2021 14:31	38	61.8	82	83.1	35.2	40.3	40	508	2.8	35.4
303	9/8/2021 14:32	38.1	61.2	81.8	87.3	35.3	45.3	45.2	558	3.5	35.9
304	9/8/2021 14:33	38.1	60.1	81.8	85.3	35.4	38.1	37.3	536	2.9	33.8
305	9/8/2021 14:34	38.1	61.1	81.5	85.5	35.2	41.4	41.2	595	2.1	34.2
306	9/8/2021 14:35	38.2	59.8	81.4	88.4	35.2	41.8	41.6	504	1.9	35.1
307	9/8/2021 14:36	38.1	60.7	81.2	86.1	35.2	37.1	35.6	443	1.9	33.1
308	9/8/2021 14:37	38.1	60.7	81.2	82.7	35.3	39.9	39.1	426	2	34.1
309	9/8/2021 14:38	38.1	60.3	81.2	82.6	35.4	40.5	39.2	423	1.7	33.3
310	9/8/2021 14:39	38.3	59.9	80.9	85.9	35.2	40.1	40	422	2.3	34.8
311	9/8/2021 14:40	38.1	59.9	80.6	86.7	35.2	39.6	38.2	417	2.5	36.2
312	9/8/2021 14:41	38.1	60	80.5	86.9	35.2	38.7	38.3	410	2	33.7
313	9/8/2021 14:42	38.3	60.2	80.4	86.6	35.2	40.6	39.5	406	1.8	34.2
314	9/8/2021 14:43	38.3	59.9	80.3	85	35.2	40.8	39.4	401	2.5	33.4
315	9/8/2021 14:44	38.2	59.6	80.3	82.8	35.3	36.3	35.9	390	2.9	33.1
316	9/8/2021 14:45	38.2	59.4	80.1	83.2	35.4	39.6	38.5	374	2.3	35.3
317	9/8/2021 14:46	38.2	59.5	79.7	83.1	35.2	36.7	35.5	371	1.9	34.2
318	9/8/2021 14:47	38.2	59.1	79.7	79.4	35.5	36.7	35.5	366	2	33.9
319	9/8/2021 14:48	38.1	58.8	79.4	78.1	35.4	35.7	35.5	369	3.3	34.1
320	9/8/2021 14:49	37.9	58	78.9	76.1	35.2	36.2	35.8	374	2.8	33
321	9/8/2021 14:50	37.9	57.7	78.6	75.5	35.4	38.5	37.6	359	1.5	34.1
322	9/8/2021 14:51	37.7	57.5	78.1	76.8	35.5	37.8	37.2	355	1.2	33.9
323	9/8/2021 14:52	38	57.5	77.9	77.7	35.4	38.4	38.3	357	1.4	33.5
324	9/8/2021 14:53	37.8	56.7	77.6	75.2	35.3	35.3	34.6	357	1.4	32.5
325	9/8/2021 14:54	37.8	56.3	77.3	74.4	35.2	37.5	36.2	362	1.4	33.4
326	9/8/2021 14:55	37.9	56.4	77	73.5	35.7	37.5	37	385	1.3	33.2
327	9/8/2021 14:56	37.8	55.5	76.6	72.5	35.4	36.3	35.4	389	1.8	32.3
328	9/8/2021 14:57	37.7	55.1	76	71.8	35.2	36.7	36	371	2.5	34.1
329	9/8/2021 14:58	37.8	54.6	75.7	71.2	35.5	35.9	35.1	371	3.1	32.3
330	9/8/2021 14:59	37.8	54.2	75.3	71.2	35.5	36	34.8	367	2.3	32.7
331	9/8/2021 15:00	37.5	53.7	74.8	70.2	35.1	36.8	35.8	352	2.6	33.1
332	9/8/2021 15:01	37.6	53.2	74.3	69.4	35.4	36	35.8	337	2	32.7
333	9/8/2021 15:02	37.5	52.7	73.8	69.5	35.2	36.7	36.6	327	1.5	32.5
334	9/8/2021 15:03	37.6	52.5	73.4	67.8	35.4	36	35.9	329	1.6	32.6
335	9/8/2021 15:04	37.5	52	73.1	67.2	35.4	36.1	35.6	325	1.6	32.3
336	9/8/2021 15:05	37.6	51.8	72.6	67.3	35.5	36.4	35	339	1.5	33.1
337	9/8/2021 15:06	37.6	51.2	72.3	67.5	35.5	35	34.4	339	1	32.3
338	9/8/2021 15:07	37.5	50.9	71.8	67.2	35.4	35.6	34.1	360	1.1	32.2
339	9/8/2021 15:08	37.4	50.3	71.3	65.6	35.4	34.7	33.9	346	1.7	32
340	9/8/2021 15:09	37.3	50	71.1	65.2	35.7	34.2	33	424	1.9	32.4
341	9/8/2021 15:10	37.4	49.6	70.6	66.2	35.4	34.6	33.9	345	2.1	32.3
342	9/8/2021 15:11	37	48.8	70.1	65.2	35.4	35.9	35.1	318	2.3	32.6
343	9/8/2021 15:12	37.4	49	69.7	65.4	35.4	35.1	34.8	309	1.8	32.2
344	9/8/2021 15:13	37.2	48.8	69.1	64	35.3	34.7	34.6	300	1.8	31.8
345	9/8/2021 15:14	37.2	48.5	68.7	64.9	35.3	34.7	33.2	296	1.1	31.8
346	9/8/2021 15:15	37.3	48.3	68.6	64.6	35.5	35	34.9	293	0.8	31.9

347	9/8/2021 15:16	37.2	48	68.1	64	35.4	36.3	35.4	291	0.5	32.3
348	9/8/2021 15:17	37.3	48	67.8	66	35.5	36.7	36.1	292	1.4	33.2
349	9/8/2021 15:18	37.4	48	67.4	68.9	35.4	37	35.5	295	1.3	33.4
350	9/8/2021 15:19	37.3	48.3	67.1	70.3	35.2	38.1	37.2	320	1	33
351	9/8/2021 15:20	37.5	48.6	67.2	71.2	35.5	39.1	38.4	307	1	32.9
352	9/8/2021 15:21	37.7	48.8	67	72.3	35.4	37.3	37	304	1.6	34.2
353	9/8/2021 15:22	37.7	49.1	66.9	72.3	35.4	38.6	37.3	298	1.4	34.7
354	9/8/2021 15:23	37.8	49.5	66.9	72.4	35.5	38.5	38.3	295	1.5	34.5
355	9/8/2021 15:24	37.8	49.4	66.7	71.7	35.4	35.9	35.2	285	1.8	33.6
356	9/8/2021 15:25	37.7	49.4	66.6	72.7	35.3	36.1	34.8	277	2.3	33.7
357	9/8/2021 15:26	37.8	49.5	66.6	72.6	35.4	37.3	36.6	272	2.5	33.4
358	9/8/2021 15:27	37.8	49.8	66.5	71.7	35.5	36.4	36.3	267	2.4	34.9
359	9/8/2021 15:28	37.7	49.5	66.4	72.1	35.4	35.4	34.5	265	2.1	33.8
360	9/8/2021 15:29	37.8	49.8	66.5	72.2	35.5	39	37.7	267	1.9	35.5
361	9/8/2021 15:30	37.8	49.9	66.4	72.1	35.5	38.1	37.8	259	2	34
362	9/8/2021 15:31	37.7	49.9	66.4	71.8	35.7	38.5	38.1	250	1.8	34.7
363	9/8/2021 15:32	37.7	49.9	66.2	70.7	35.4	37.8	36.6	239	2.1	34.6
364	9/8/2021 15:33	37.9	50.3	66.4	71.4	35.5	40.9	39.7	232	1.9	36.3
365	9/8/2021 15:34	37.8	50.4	66.1	71.4	35.4	38.5	38	228	1.6	35.5
366	9/8/2021 15:35	38.1	50.5	66	70.7	34.9	39	37.5	225	1.8	35.7
367	9/8/2021 15:36	37.8	50.5	65.9	68.9	35.2	36.4	35.6	224	2.4	34.1
368	9/8/2021 15:37	37.9	50.5	65.9	69.3	35.4	38.2	37.3	222	1.5	34.3
369	9/8/2021 15:38	38	50.5	65.9	67.2	35.5	37	36.7	221	1	34.4
370	9/8/2021 15:39	38	50.3	65.7	68.6	35.4	37.5	36.6	220	1.8	34
371	9/8/2021 15:40	38	50.6	65.6	70	35.4	42.8	42.6	219	2.6	35.5
372	9/8/2021 15:41	38.1	50.5	65.5	69.4	35.4	38.1	37.1	216	2.3	33.1
373	9/8/2021 15:42	38.1	50.5	65.4	69.5	35.3	38.8	38.4	215	2.5	33.1
374	9/8/2021 15:43	38.1	50.5	65.4	69.1	35.4	41.4	40.2	214	1.8	33.7
375	9/8/2021 15:44	38	51.1	65.4	70.1	35.5	39.1	37.8	212	1.9	34.3
376	9/8/2021 15:45	38.3	51	65.4	69.4	35.5	39	38.8	210	2.1	34.7
377	9/8/2021 15:46	38.3	51	65.4	69.1	35.5	41.2	40	207	2.2	35.3
378	9/8/2021 15:47	38.1	51.4	65.2	69.2	35.4	44.4	43.6	205	2.2	36
379	9/8/2021 15:48	38.3	51.2	65.1	68.6	35.4	40.9	40.6	205	1.9	33.6
380	9/8/2021 15:49	38.3	51.3	65.1	68.6	35.5	42.4	41.2	204	1.9	34.9
381	9/8/2021 15:50	38.3	51.2	65	68.1	35.3	42.2	40.9	203	1.5	34.7
382	9/8/2021 15:51	38.3	51.4	64.9	68.2	35.4	41.8	40.4	202	1.2	34.1
383	9/8/2021 15:52	38.3	52	64.9	69.1	35.6	42.8	42.7	202	1.3	36.9
384	9/8/2021 15:53	38	51.4	64.7	69.2	35.4	38.8	38.4	202	1.8	33.6
385	9/8/2021 15:54	38.5	51.2	64.9	69.1	35.5	41.8	41	206	2.3	35
386	9/8/2021 15:55	38.4	51.4	64.8	68.8	35.4	42	41.1	216	1.8	34.4
387	9/8/2021 15:56	38.1	50.8	64.6	68.1	35	40.3	39.8	247	1.2	34.9
388	9/8/2021 15:57	38.5	51.4	64.7	67.6	35.5	42.2	41.1	238	2	36.7
389	9/8/2021 15:58	38.5	51.7	64.7	67.7	35.5	41.7	41.4	324	2.1	36.5
390	9/8/2021 15:59	38.5	51.5	64.6	68.1	35.4	43.6	43.2	320	2.3	34.8
391	9/8/2021 16:00	38.6	51.6	64.5	68.1	35.1	41.4	41.1	254	2.1	35.9
392	9/8/2021 16:01	38.4	51.1	64.4	67.4	35.5	39.3	38.3	249	1.8	34
393	9/8/2021 16:02	38.5	50.9	64.4	66.7	35.5	38	36.5	260	2.1	34.2
394	9/8/2021 16:03	38.6	50.8	64.4	67.2	35.7	42.2	41.2	268	2.1	33.8
395	9/8/2021 16:04	38.5	50.7	64.3	66.3	35.5	40	39.7	306	1.9	33.1
396	9/8/2021 16:05	38.1	50.8	64.1	66	35.4	38.8	37.6	287	2.2	34.6

397	9/8/2021 16:06	38.3	50.1	64.2	65.4	35.5	36.3	35.7	288	1.5	33
398	9/8/2021 16:07	38.2	49.5	64	65.1	35.4	35.9	35.8	343	2.6	32.7
399	9/8/2021 16:08	38.4	49.5	64	64.5	35.5	36.3	35.1	349	2.3	33.6
400	9/8/2021 16:09	38.2	49	63.9	64.8	35.5	37	35.9	287	2.1	33.2
401	9/8/2021 16:10	38.1	48.9	63.6	63.9	35.5	40.1	39.8	270	2.6	36.2
402	9/8/2021 16:11	38.1	48.8	63.6	64.9	35.4	39.9	38.7	281	2.6	34.9
403	9/8/2021 16:12	38.3	49.1	63.4	63.6	35.5	40.2	40.1	282	1.7	34.5
404	9/8/2021 16:13	38.2	48.9	63.2	63.6	35.4	38.8	38.2	308	2.3	33.8
405	9/8/2021 16:14	38.2	49	63.2	63.8	35.5	42.5	41	311	3.3	33.9
406	9/8/2021 16:15	38.4	49.2	63.1	63.7	35.5	40.4	40	276	2.4	35.8
407	9/8/2021 16:16	38.3	49.2	63.2	64.4	35.8	39	38.4	319	2.3	35
408	9/8/2021 16:17	38.3	49.1	62.9	64	35.5	40.1	38.9	363	2.1	36.2
409	9/8/2021 16:18	38.4	48.9	62.8	64.3	35.5	38.6	38.1	330	2.4	35.1
410	9/8/2021 16:19	38.5	49	62.7	63.2	35.7	38.1	37	296	2.2	34.6
411	9/8/2021 16:20	38.5	48.9	62.6	63.2	35.4	39.2	38.8	305	2.6	34.3
412	9/8/2021 16:21	38.3	48.5	62.4	62.5	35.5	40.6	39.2	386	1.8	35
413	9/8/2021 16:22	38.3	48.6	62.3	61.9	35.6	43.4	41.9	404	2.1	35.5
414	9/8/2021 16:23	38.4	48.7	62.2	63	35.5	42.7	41.6	401	2.2	35.2
415	9/8/2021 16:24	38.5	48.6	61.9	61.8	35.5	38.6	38.2	395	2.4	35
416	9/8/2021 16:25	38.4	48.3	62	61.4	35.5	40.9	40.3	386	1.7	34.2
417	9/8/2021 16:26	38.1	48.1	61.7	60.3	35.4	43.2	42	234	1.3	36
418	9/8/2021 16:27	38.5	48.6	61.4	61.1	35.4	40.4	39.4	360	1.2	34.4
419	9/8/2021 16:28	38.2	48.5	61.5	61.4	35.4	39.9	38.5	355	2	33.6
420	9/8/2021 16:29	38.1	48.6	61.4	60.3	35.6	40.6	39.7	298	2.2	35.1
421	9/8/2021 16:30	38.1	48.6	61.1	59.2	35.7	39.9	39.4	336	2	34.4

Pelat datar tanpa PCM storage											
No	WAKTU	T-MASUK (Tin)	T-KELUAR (Tout)	T-PARAFIN (Tpf)	T-PLAT DATAR (Tpl)	T-TANGKI (Ti)	T-KACA LUAR (Tkl)	T-KACA DALAM (TkD)	INTENSITAS MATAHARI (I)	KECEPATAN ANGIN (v)	T-LINGKUNGAN (°C)
1	9/8/2021 9:30	37.7	49		62.9	38.3	38.3	38.2	275	3.1	31.8
2	9/8/2021 9:31	37.7	49.1		62.9	38.3	38.3	37.6	277	2.5	33.1
3	9/8/2021 9:32	37.7	49.1		63.2	38.3	38.3	37.1	280	2.8	33.7
4	9/8/2021 9:33	37.8	49.2		63.3	38.5	38.5	37.8	284	2.9	34.9
5	9/8/2021 9:34	37.8	49.1		63.5	38.3	38.3	37.8	289	2.9	33.4
6	9/8/2021 9:35	38	49.4		63.8	38.6	38.6	37.8	296	3.2	37.3
7	9/8/2021 9:36	37.7	49.6		64	38.9	38.9	38.6	304	2.5	35.6
8	9/8/2021 9:37	38.5	50		64.2	39.1	39.1	37.6	314	2.2	34
9	9/8/2021 9:38	38.3	49.7		64.5	38.6	38.6	37.9	323	3.4	40.1
10	9/8/2021 9:39	38.2	49.7		64.7	38.7	38.7	38.3	334	2.8	34
11	9/8/2021 9:40	38.2	49.7		64.6	38.5	38.5	37.7	348	2.4	33
12	9/8/2021 9:41	38	49.8		64.8	38.8	38.8	38.1	367	2.8	35.5
13	9/8/2021 9:42	38.3	49.8		65.1	38.7	38.7	37.8	386	2.4	33
14	9/8/2021 9:43	38	49.9		65.2	38.8	38.8	38.7	370	2.2	32.6
15	9/8/2021 9:44	38	49.9		65.1	38.7	38.7	38.3	354	2.5	31.6
16	9/8/2021 9:45	38.2	50.1		65.5	39	39	38.1	347	2	33.3
17	9/8/2021 9:46	38	49.8		65.2	38.8	38.8	37.4	341	1.9	34
18	9/8/2021 9:47	38.1	50.3		65.5	39	39	38.5	336	2.5	36.7
19	9/8/2021 9:48	38.6	50.4		65.8	39.1	39.1	38.5	332	2.8	34.6
20	9/8/2021 9:49	37.9	49.8		65.7	39.3	39.3	38.7	330	2.4	33.9
21	9/8/2021 9:50	38.6	50.4		66.1	39.2	39.2	38.9	330	2.5	32.2
22	9/8/2021 9:51	38.2	50.4		66.1	39.3	39.3	37.9	333	2.2	33.9
23	9/8/2021 9:52	38.4	50.6		66.3	39.3	39.3	38.3	338	2.2	33.3
24	9/8/2021 9:53	38.5	50.6		66.3	39.4	39.4	37.9	344	1.7	34.2
25	9/8/2021 9:54	38.4	50.6		66.3	39.4	39.4	38.1	353	1.9	33.7
26	9/8/2021 9:55	38.4	50.7		66.3	39.4	39.4	38.1	369	2.3	34.2
27	9/8/2021 9:56	38.6	50.9		66.4	39.7	39.7	38.5	382	2	35.3
28	9/8/2021 9:57	38.6	50.9		66.6	39.3	39.3	38	389	2.1	34.5
29	9/8/2021 9:58	38.6	50.9		66.5	39.8	39.8	39.3	387	1.3	34.9
30	9/8/2021 9:59	38.6	51.2		66.7	39.5	39.5	39.2	391	1.6	35.9
31	9/8/2021 10:00	39.1	51.1		66.9	39.9	39.9	38.5	388	1.2	34.5
32	9/8/2021 10:01	39	51.5		66.9	39.9	39.9	39.5	388	1.7	34.4
33	9/8/2021 10:02	38.7	50.8		67.2	39.5	39.5	38.4	389	1.9	35.8
34	9/8/2021 10:03	38.8	51.3		67.4	40.1	40.1	39.9	395	1.4	32.4
35	9/8/2021 10:04	39	51.2		67.5	40.2	40.2	39.5	400	1.9	31.9
36	9/8/2021 10:05	38.8	51.4		67.1	40.1	40.1	38.8	405	1.4	33
37	9/8/2021 10:06	38.8	51.5		67.3	40.3	40.3	39.7	408	1.6	32.5
38	9/8/2021 10:07	38.8	51.3		67.2	40.3	40.3	39.7	408	1.7	32.4
39	9/8/2021 10:08	39	51.4		67.3	40.4	40.4	40.3	405	1.7	34.2
40	9/8/2021 10:09	38.8	51		67.7	40.4	40.4	40.1	401	1.7	32.6
41	9/8/2021 10:10	39	51.5		67.3	40.6	40.6	39.9	396	1.7	32.8

42	9/8/2021 10:11	39	51.1		67.1	39.8	39.8	39.7	391	1.3	33.8
43	9/8/2021 10:12	39.4	51.7		67.7	40.8	40.8	40	385	1.1	35.7
44	9/8/2021 10:13	39.5	51.6		67.5	40.5	40.5	39.7	381	1.1	34.5
45	9/8/2021 10:14	39.3	51.6		67.9	40.8	40.8	39.4	378	1.1	33.5
46	9/8/2021 10:15	39.5	51.8		67.9	40.8	40.8	40.4	377	1.8	34.7
47	9/8/2021 10:16	39.4	51.9		68.2	41.1	41.1	41	374	2	32.7
48	9/8/2021 10:17	39.5	52		68.4	41.2	41.2	40.4	370	1.9	33.9
49	9/8/2021 10:18	39.4	52		68.8	41.1	41.1	39.7	366	1.7	33.9
50	9/8/2021 10:19	39.5	52.1		68.7	41.2	41.2	40.1	363	1.6	34.6
51	9/8/2021 10:20	39.8	52.1		68.7	41.4	41.4	40.1	362	1.7	34.2
52	9/8/2021 10:21	39.6	52		68.9	40.9	40.9	40.6	363	1.4	33.8
53	9/8/2021 10:22	40	52.5		69.2	41.5	41.5	40.8	371	2	33.9
54	9/8/2021 10:23	39.8	52.1		69.2	41.2	41.2	40.7	383	2.4	32.9
55	9/8/2021 10:24	40.1	52.4		69.4	41.6	41.6	41.5	396	2.6	33
56	9/8/2021 10:25	39.9	52.5		69.1	41.6	41.6	40.4	408	2.8	32.9
57	9/8/2021 10:26	40.4	52.8		69	41.4	41.4	40	416	2.5	34.1
58	9/8/2021 10:27	40.2	52.6		69.2	41.8	41.8	41.7	420	3	34.9
59	9/8/2021 10:28	40.3	52.6		69.2	42	42	41	417	2.4	34.2
60	9/8/2021 10:29	40.4	52.7		69.4	42	42	41.3	407	2.8	34.4
61	9/8/2021 10:30	40.3	52.9		69.3	42.1	42.1	41.7	400	2.6	33.9
62	9/8/2021 10:31	40.3	52.6		69.5	42	42	40.9	393	2.4	33.5
63	9/8/2021 10:32	40.4	52.9		69.7	42.3	42.3	41	386	3.6	34.4
64	9/8/2021 10:33	40.3	52.7		69.8	42.3	42.3	40.9	382	3.4	34.4
65	9/8/2021 10:34	40.3	52.8		69.6	41.3	41.3	41.1	381	3.3	33.4
66	9/8/2021 10:35	40.1	52.9		69.7	42.4	42.4	41	383	2.4	34.4
67	9/8/2021 10:36	40.8	53.2		70.3	42.6	42.6	41.7	393	2.4	33.8
68	9/8/2021 10:37	40.7	53.2		70.4	42.9	42.9	42.3	408	2.9	34.7
69	9/8/2021 10:38	40.7	53.8		70.3	42.9	42.9	42.2	411	2.9	34.5
70	9/8/2021 10:39	40.6	53.1		70.3	42.7	42.7	42.1	413	2.1	35.7
71	9/8/2021 10:40	40.8	53.3		70.6	42.8	42.8	41.3	418	2.1	33.9
72	9/8/2021 10:41	40.8	53.2		71	42.6	42.6	41.8	416	2.5	36.5
73	9/8/2021 10:42	41.1	53.6		71	43	43	42.8	390	2.3	35.2
74	9/8/2021 10:43	41.1	53.7		71.2	43.1	43.1	41.8	353	1.3	35.1
75	9/8/2021 10:44	41.2	53.4		71.3	42.7	42.7	41.4	324	2.8	37.3
76	9/8/2021 10:45	41.1	53.9		71.4	43.5	43.5	42.3	303	2.3	35.9
77	9/8/2021 10:46	41.4	54		71.7	43.2	43.2	42.4	292	2.1	37.7
78	9/8/2021 10:47	41.2	54.1		72.1	43.8	43.8	43.7	300	2.9	35.2
79	9/8/2021 10:48	41.6	53.9		72.1	43.5	43.5	43	330	2.3	39.1
80	9/8/2021 10:49	41.6	54.3		72.3	43.5	43.5	42.5	383	2	39.9
81	9/8/2021 10:50	41.8	54.6		72.4	43.6	43.6	42.5	419	2.4	38.6
82	9/8/2021 10:51	41.8	54.6		72.7	43.8	43.8	43	496	2.9	37.3
83	9/8/2021 10:52	41.8	54.6		72.9	43.7	43.7	42.4	516	3.1	35
84	9/8/2021 10:53	41.7	54.6		72.9	43.8	43.8	42.6	560	2.9	35.5
85	9/8/2021 10:54	41.9	54.9		73.6	44	44	42.7	646	3.2	35

86	9/8/2021 10:55	42	55.3		73.3	44.2	44.2	42.8	749	3.1	35
87	9/8/2021 10:56	42.1	55		73.4	43.8	43.8	43	653	2.3	33.9
88	9/8/2021 10:57	42	55.1		73.2	44.3	44.3	43.6	524	3	35.3
89	9/8/2021 10:58	42.1	55.1		73.2	44.2	44.2	44.1	480	3.3	36
90	9/8/2021 10:59	42.3	55.2		73	44.5	44.5	43.1	419	2.5	35.5
91	9/8/2021 11:00	42.3	55		72	44.4	44.4	43.6	426	2.4	36.5
92	9/8/2021 11:01	42.3	54.8		73	44.2	44.2	42.8	422	2.4	34.7
93	9/8/2021 11:02	42.5	55.4		73.3	45.1	45.1	43.8	455	2.4	38.2
94	9/8/2021 11:03	42.2	55.4		73.6	45.1	45.1	43.9	428	3.2	35.4
95	9/8/2021 11:04	42.5	55.3		73.8	44.6	44.6	43.1	432	2.6	33.9
96	9/8/2021 11:05	42.5	55.4		73.8	44.6	44.6	44.5	440	2.6	34.7
97	9/8/2021 11:06	42.6	55.5		73.7	44.9	44.9	44.7	498	2.5	36
98	9/8/2021 11:07	42.8	55.3		74.3	44.9	44.9	43.4	551	1.9	34.4
99	9/8/2021 11:08	42.8	55.6		74	45.2	45.2	43.9	543	2.4	34.4
100	9/8/2021 11:09	42.5	55.1		74.4	44.9	44.9	43.7	802	1.6	39.1
101	9/8/2021 11:10	42.9	55.8		74.3	45.3	45.3	44.7	462	1.6	36.2
102	9/8/2021 11:11	43.1	56.5		74.3	45.5	45.5	44.9	578	1.6	38.1
103	9/8/2021 11:12	43.5	56.5		74.7	46	46	45	940	2	38.5
104	9/8/2021 11:13	43.2	56.1		75	45.5	45.5	44.6	751	2	35
105	9/8/2021 11:14	43.5	56.1		75.2	45.4	45.4	44.9	819	1.9	36.7
106	9/8/2021 11:15	43.3	56.2		75.4	45.6	45.6	44.4	762	1.8	36
107	9/8/2021 11:16	43.4	56.4		75.4	45.7	45.7	45.5	985	1.8	35.8
108	9/8/2021 11:17	43.7	56.6		75.5	45.8	45.8	44.7	822	1.8	37
109	9/8/2021 11:18	43.6	56.6		75.8	45.9	45.9	44.7	612	1.9	37.8
110	9/8/2021 11:19	43.7	56.7		75.8	45.9	45.9	45.1	532	2.5	36.7
111	9/8/2021 11:20	44	56.6		75.7	45.9	45.9	44.7	738	2.3	37.3
112	9/8/2021 11:21	43.5	56.6		76	46.5	46.5	45.6	962	2.3	35.7
113	9/8/2021 11:22	43.7	56.8		76.3	45.9	45.9	45.7	739	2.2	34.7
114	9/8/2021 11:23	44.1	57.1		76.6	46.4	46.4	45.9	762	2.2	35.4
115	9/8/2021 11:24	44.1	57.3		76.9	46.5	46.5	45.8	841	1.4	36.5
116	9/8/2021 11:25	43.9	57.2		77.5	46.3	46.3	45.8	908	1.7	35.4
117	9/8/2021 11:26	44.2	57.5		78.4	46.6	46.6	45.8	862	1.9	36
118	9/8/2021 11:27	44.3	57.2		75.8	46.9	46.9	46.1	625	1.5	35.2
119	9/8/2021 11:28	44.4	56.9		75.8	46.7	46.7	45.2	775	0.8	34.5
120	9/8/2021 11:29	44.4	56.8		77.4	46.7	46.7	45.4	693	1.4	37.7
121	9/8/2021 11:30	44.6	57.7		77.9	46.8	46.8	45.4	726	2.6	36.5
122	9/8/2021 11:31	44.6	58.1		78.4	46.9	46.9	45.6	730	2.6	36.9
123	9/8/2021 11:32	44.6	58		78.6	46.9	46.9	46.4	751	2.3	34.3
124	9/8/2021 11:33	44.9	58.2		77.1	47.2	47.2	46.4	687	1.9	33.6
125	9/8/2021 11:34	44.9	58.3		78.7	47.2	47.2	46.1	619	1.1	34.8
126	9/8/2021 11:35	45	58.1		78.7	47.2	47.2	46	597	0.9	35
127	9/8/2021 11:36	45.1	58.4		77.7	47.4	47.4	46.4	578	1.7	33.4
128	9/8/2021 11:37	45.2	58.1		75.4	47.2	47.2	46.7	582	2.7	34.4
129	9/8/2021 11:38	45.1	57.8		74.3	47.4	47.4	46	592	1.9	34.4

130	9/8/2021 11:39	45	57.3		72.8	47.5	47.5	46.8	631	2.3	34.1
131	9/8/2021 11:40	45.3	57.1		72.6	47.7	47.7	47.3	576	1.8	34.2
132	9/8/2021 11:41	45.4	56.9		71.2	47.7	47.7	46.6	557	2.1	34.1
133	9/8/2021 11:42	45.4	56.9		70.9	47.7	47.7	46.9	600	2.6	33.4
134	9/8/2021 11:43	45.5	56.9		74.7	47.7	47.7	47.2	543	2.7	36.4
135	9/8/2021 11:44	45.5	57.4		75	48	48	47.7	557	2.6	36
136	9/8/2021 11:45	45.6	57.5		74.8	47.8	47.8	47.1	540	2.6	36.1
137	9/8/2021 11:46	45.7	57.6		75.8	47.9	47.9	46.4	556	2.5	34.5
138	9/8/2021 11:47	45.9	58		78.4	47.6	47.6	46.3	592	1.5	34.1
139	9/8/2021 11:48	45.8	58.4		78.6	48	48	47.5	658	1.6	33.9
140	9/8/2021 11:49	46	58.7		73	48	48	46.9	667	1.5	33.6
141	9/8/2021 11:50	45.8	57.9		70.6	48.1	48.1	47.7	722	1.9	33.4
142	9/8/2021 11:51	46.2	57.1		75.9	48.1	48.1	47.1	553	1.7	35
143	9/8/2021 11:52	46.2	57.8		78.9	48.3	48.3	47.2	562	1.3	36.5
144	9/8/2021 11:53	46.2	58.5		77.8	48.5	48.5	47.3	458	1.4	37.2
145	9/8/2021 11:54	46.3	58.9		78.1	48.5	48.5	47.1	427	2.4	35.3
146	9/8/2021 11:55	46.3	58.6		74.7	48.5	48.5	47.2	414	2.4	34.3
147	9/8/2021 11:56	46.3	58.6		77.2	48.8	48.8	47.5	398	1.7	32.5
148	9/8/2021 11:57	46.5	58.9		79.8	48.7	48.7	48	391	2.2	35.5
149	9/8/2021 11:58	46.5	59.1		81	48.8	48.8	48.4	384	2.2	33.6
150	9/8/2021 11:59	46.6	59.4		79.6	48.6	48.6	48.1	422	1	33.9
151	9/8/2021 12:00	46.5	59.7		79.1	48.9	48.9	48.7	391	1.2	35.9
152	9/8/2021 12:01	46.6	59.5		78.9	48.9	48.9	48.7	408	0.9	36.2
153	9/8/2021 12:02	46.7	59		75.7	48.9	48.9	48.4	347	1.1	35.5
154	9/8/2021 12:03	46.5	58.8		78.6	48.9	48.9	48.4	334	1.8	33.8
155	9/8/2021 12:04	46.7	58.8		74.1	49.2	49.2	47.9	381	2.8	32.4
156	9/8/2021 12:05	46.9	58.8		75.4	49.4	49.4	48.2	409	1.4	33.1
157	9/8/2021 12:06	46.8	58.5		77.7	48.8	48.8	47.5	424	1.6	34.3
158	9/8/2021 12:07	46.7	58.8		78.4	49.1	49.1	47.9	444	1.4	35.1
159	9/8/2021 12:08	47	58.9		67.7	49.4	49.4	48.4	513	1	33.6
160	9/8/2021 12:09	47.1	57.9		73.6	49.5	49.5	48.8	522	1.1	34.2
161	9/8/2021 12:10	47	57.5		76.1	49.5	49.5	48.6	500	1.4	33.7
162	9/8/2021 12:11	47	58.1		77.3	49.5	49.5	48.7	527	1.8	35.1
163	9/8/2021 12:12	47.1	59		77.5	49.8	49.8	49.1	558	1.7	32.7
164	9/8/2021 12:13	47.4	59.4		77.4	49.9	49.9	49.6	577	1.1	33.2
165	9/8/2021 12:14	47.5	59.5		77.8	50	50	49.3	568	0.9	33.1
166	9/8/2021 12:15	47.4	59.5		78.1	50	50	48.7	569	0.9	33.1
167	9/8/2021 12:16	47.6	59.6		78.7	50	50	49.4	538	1.2	36.2
168	9/8/2021 12:17	47.5	59.5		78.1	50	50	49.6	522	1.5	33.4
169	9/8/2021 12:18	47.7	59.7		76.8	50.1	50.1	49.6	487	1.7	35.3
170	9/8/2021 12:19	47.5	59.4		73.8	50	50	49.1	485	1.3	34.4
171	9/8/2021 12:20	47.6	58.4		65.9	50.2	50.2	50.1	498	1.4	32.6
172	9/8/2021 12:21	47.6	57.4		74	50.3	50.3	50	510	1.6	33.2
173	9/8/2021 12:22	47.7	57.7		75.1	50.3	50.3	49.3	499	1.6	34.9

174	9/8/2021 12:23	47.8	58.4		76.2	50.5	50.5	49.3	557	2	34.9
175	9/8/2021 12:24	47.7	58.8		75.7	50.5	50.5	50.4	549	1.3	32.6
176	9/8/2021 12:25	47.7	59.4		71.4	50.7	50.7	49.8	562	1.2	33.4
177	9/8/2021 12:26	47.9	59.2		76.7	50.5	50.5	49.3	524	1.3	34.5
178	9/8/2021 12:27	47.8	59.6		77.3	51	51	50.2	515	1	34.1
179	9/8/2021 12:28	48.1	59.7		77.7	50.7	50.7	50	515	1	35.7
180	9/8/2021 12:29	48.1	60		78.2	50.7	50.7	50.5	499	1.4	36.5
181	9/8/2021 12:30	48.1	59.8		78	50.7	50.7	49.9	597	1.3	37
182	9/8/2021 12:31	48.1	60		74.7	50.8	50.8	49.6	651	0.8	34.4
183	9/8/2021 12:32	48.5	60.1		77.8	51	51	49.7	644	0.5	35.2
184	9/8/2021 12:33	48.4	60		77.8	51.1	51.1	50.5	792	1.4	35.4
185	9/8/2021 12:34	48.3	60		77.7	50.9	50.9	50.1	727	1.2	34.5
186	9/8/2021 12:35	48.5	60.3		78.2	51.2	51.2	50.4	824	0.9	33.7
187	9/8/2021 12:36	48.4	60.3		78.1	51.1	51.1	50.3	718	1.3	33.2
188	9/8/2021 12:37	48.6	60.6		78.1	51.8	51.8	50.8	552	1.4	33.9
189	9/8/2021 12:38	48.6	60.5		78.5	51.4	51.4	50	491	1.4	36.5
190	9/8/2021 12:39	48.5	60.4		78.2	51.3	51.3	50.8	457	0.8	34.4
191	9/8/2021 12:40	48.8	60.5		78.3	51.4	51.4	50.6	495	0.8	34.9
192	9/8/2021 12:41	48.6	60.4		78	51.4	51.4	51.1	494	0.6	33.5
193	9/8/2021 12:42	48.8	60.5		78.3	51.5	51.5	50.8	601	1.8	33.1
194	9/8/2021 12:43	48.8	60.7		78.6	51.6	51.6	50.8	588	1	36.8
195	9/8/2021 12:44	48.9	60.8		78.5	51.8	51.8	51	579	1.8	33.4
196	9/8/2021 12:45	48.9	60.8		78.1	51.7	51.7	50.8	526	2.2	34.5
197	9/8/2021 12:46	48.8	60.5		77.8	51.7	51.7	50.6	532	1.7	33.5
198	9/8/2021 12:47	49.1	60.8		78	51.8	51.8	51.6	511	1.1	34.9
199	9/8/2021 12:48	49.1	60.8		77.9	52	52	51.4	522	1.3	34.9
200	9/8/2021 12:49	49.1	60.8		78.4	52	52	51.2	520	2.3	33.6
201	9/8/2021 12:50	49.1	60.9		78.1	52	52	50.6	511	1.6	35.4
202	9/8/2021 12:51	49.4	61.1		78.6	52.1	52.1	51.8	540	1.3	33.4
203	9/8/2021 12:52	49.2	61.1		78.3	52	52	50.6	574	1.5	37.2
204	9/8/2021 12:53	49.3	61.1		78	52.3	52.3	51.2	718	1.6	33.7
205	9/8/2021 12:54	49.3	61.2		78.5	52.6	52.6	51.9	645	2	34
206	9/8/2021 12:55	49.7	61.3		78.4	52.5	52.5	51.9	596	2.1	36.2
207	9/8/2021 12:56	49.5	61		78.1	52.4	52.4	51.7	559	1.6	36.5
208	9/8/2021 12:57	49.8	60.9		77.9	52	52	51.9	536	0.8	35.9
209	9/8/2021 12:58	49.8	61.3		78.1	52.5	52.5	52.4	507	1.3	34.2
210	9/8/2021 12:59	49.8	61.3		78.6	52.5	52.5	51.4	504	0.9	38.6
211	9/8/2021 13:00	49.8	61.4		78.5	52.8	52.8	52.5	566	2.1	34.9
212	9/8/2021 13:01	49.7	61.5		78.1	53.1	53.1	51.8	574	2.1	33.4
213	9/8/2021 13:02	50.1	61.5		78.5	52.9	52.9	51.4	606	2.2	33.5
214	9/8/2021 13:03	50	61.4		78.1	52.8	52.8	52.2	683	2.4	33.9
215	9/8/2021 13:04	49.7	61.2		78.6	52.8	52.8	52.3	619	2.7	33.9
216	9/8/2021 13:05	49.7	61.4		78.3	52.8	52.8	51.7	613	1.7	34.9
217	9/8/2021 13:06	50.2	61.7		78.2	53.1	53.1	52.9	623	1.7	35

218	9/8/2021 13:07	50.1	61.4		78.1	52.9	52.9	52.3	741	1.6	33.5
219	9/8/2021 13:08	50.1	61.4		78.2	53.1	53.1	52.3	741	1.7	33.9
220	9/8/2021 13:09	50.1	61.5		78.4	53.1	53.1	52.1	828	1.6	34.3
221	9/8/2021 13:10	50.5	61.7		79.1	53.4	53.4	52.6	745	1.7	34.1
222	9/8/2021 13:11	50.5	61.7		79	53.3	53.3	52.1	684	1.2	34.8
223	9/8/2021 13:12	50.3	61.7		78.7	53.2	53.2	52.1	655	1.5	34.2
224	9/8/2021 13:13	50.5	61.6		78.6	53.4	53.4	52.9	656	2.6	35
225	9/8/2021 13:14	50.5	61.8		79	53.5	53.5	52.2	738	2.4	34.8
226	9/8/2021 13:15	50.5	61.7		79.1	53.4	53.4	52.3	665	1.5	33.9
227	9/8/2021 13:16	50.7	62		79.5	53.4	53.4	52.6	628	1.9	34.5
228	9/8/2021 13:17	50.7	61.9		79.5	53.3	53.3	51.8	562	2	33.9
229	9/8/2021 13:18	50.8	62		70.6	53.5	53.5	52.1	669	2.9	35.4
230	9/8/2021 13:19	50.8	61		68.1	53.5	53.5	53	708	2.6	34.9
231	9/8/2021 13:20	50.7	59.8		71.2	53.6	53.6	53.5	667	2.1	35.7
232	9/8/2021 13:21	50.4	59.5		70.9	53.6	53.6	53.1	614	2.2	32.3
233	9/8/2021 13:22	50.6	59.5		73.6	53.8	53.8	53.2	667	1.7	33.5
234	9/8/2021 13:23	50.5	59.4		64.4	53.8	53.8	53.6	704	2	32.8
235	9/8/2021 13:24	50.6	59.2		70.5	53.8	53.8	52.6	708	2.1	33.6
236	9/8/2021 13:25	50.6	58.8		74.6	53.8	53.8	53.4	532	1.7	33.1
237	9/8/2021 13:26	50.7	59.3		72.7	53.9	53.9	52.5	716	1.8	33.9
238	9/8/2021 13:27	50.5	60		73.2	53.7	53.7	53.2	603	2	34.1
239	9/8/2021 13:28	50.9	60.8		77.7	53.8	53.8	53.4	664	2.1	33.9
240	9/8/2021 13:29	51.1	61.2		74.4	53.8	53.8	52.4	639	2	33.9
241	9/8/2021 13:30	50.8	61.1		78.9	53.9	53.9	53.3	822	2	33.8
242	9/8/2021 13:31	50.9	61.7		77.5	53.8	53.8	52.3	728	1.8	34.9
243	9/8/2021 13:32	51.1	61.5		67.3	53.9	53.9	53.1	862	2.3	33.9
244	9/8/2021 13:33	50.8	60.3		64	53.8	53.8	53.5	800	1.7	32.4
245	9/8/2021 13:34	51.1	59.2		70.6	54.1	54.1	53.7	829	1.9	33.1
246	9/8/2021 13:35	50.8	58.5		73.9	54.1	54.1	53.8	835	2.1	32.3
247	9/8/2021 13:36	51.2	59.9		75.3	54	54	52.6	840	1.7	34.3
248	9/8/2021 13:37	50.8	60.9		76.6	54.1	54.1	53.7	845	2.1	32.8
249	9/8/2021 13:38	51.2	61.5		76.4	54.1	54.1	53	842	1.7	34
250	9/8/2021 13:39	51.5	61.8		77.5	54.3	54.3	53.1	850	1.9	35.2
251	9/8/2021 13:40	51.5	61.6		76.9	54	54	52.5	789	1.8	36.3
252	9/8/2021 13:41	51.5	61.8		77.3	54.4	54.4	52.9	759	1.3	33.9
253	9/8/2021 13:42	51.5	62.3		77.7	53.5	53.5	52.7	685	3.2	33.8
254	9/8/2021 13:43	51.7	62.3		78.1	54.3	54.3	54	771	2.2	35.4
255	9/8/2021 13:44	51.8	62.4		76.1	54.5	54.5	53.7	629	1.5	36.5
256	9/8/2021 13:45	51.7	62.1		77.7	54.3	54.3	53.3	458	2.6	35.5
257	9/8/2021 13:46	51.7	61.9		71.5	54.4	54.4	54.3	523	1.8	33
258	9/8/2021 13:47	51.7	61.4		72	54.6	54.6	53.7	613	1.6	33.9
259	9/8/2021 13:48	51.6	60.7		69.4	54.5	54.5	53.2	350	1.5	36.1
260	9/8/2021 13:49	51.6	60.6		75	54.6	54.6	54.3	314	1.3	34.4
261	9/8/2021 13:50	51.2	60.6		72.7	54.5	54.5	53.6	378	0.9	33

262	9/8/2021 13:51	51.3	60.7		63.7	54.6	54.6	54.4	499	1.1	33.1
263	9/8/2021 13:52	51.4	59.5		62.1	54.5	54.5	54.1	519	1.1	33.9
264	9/8/2021 13:53	51.4	58.3		61.1	54.6	54.6	53.8	551	1.3	32.3
265	9/8/2021 13:54	51.1	56.7		71.2	54.6	54.6	53.2	600	0.9	33
266	9/8/2021 13:55	51	55.8		72.6	54.6	54.6	54	557	0.9	33
267	9/8/2021 13:56	51.2	56.9		74.1	54.8	54.8	54.7	573	0.9	34.3
268	9/8/2021 13:57	51.4	61.7		73.1	54.6	54.6	53.8	598	2	33.7
269	9/8/2021 13:58	51.6	62.2		74.5	54.6	54.6	53.6	553	2.5	34
270	9/8/2021 13:59	51.7	61.8		74.8	54.7	54.7	54.3	610	0.9	35.5
271	9/8/2021 14:00	51.7	61.4		74.5	54.6	54.6	54.4	589	0.6	34.2
272	9/8/2021 14:01	52	61.8		74.4	54.9	54.9	53.5	641	0.8	35.8
273	9/8/2021 14:02	52	61.8		74.3	54.8	54.8	53.6	654	1.9	34.1
274	9/8/2021 14:03	51.9	61.8		74.3	54.8	54.8	54.5	654	1.9	34.3
275	9/8/2021 14:04	52.1	61.8		74.5	54.9	54.9	54.2	625	2	33.5
276	9/8/2021 14:05	52	61.9		74.4	54.8	54.8	54.7	617	1.6	34.4
277	9/8/2021 14:06	52.1	62		71.2	54.9	54.9	53.9	611	1.4	34.1
278	9/8/2021 14:07	52.1	61.5		70.1	55.1	55.1	54.4	710	1.4	34.5
279	9/8/2021 14:08	52.1	60.9		72.4	54.9	54.9	54.2	649	2.4	33.5
280	9/8/2021 14:09	51.9	61		72.8	55.1	55.1	54.5	877	1.9	34.1
281	9/8/2021 14:10	52.2	61.3		70.2	54.8	54.8	54.3	823	2.2	34.1
282	9/8/2021 14:11	52.4	61.6		72.8	55.2	55.2	53.7	713	3.1	33.8
283	9/8/2021 14:12	52.3	61.4		73.1	55.1	55.1	54.8	661	2.3	34.2
284	9/8/2021 14:13	52.3	61.6		73.2	55.1	55.1	54.8	601	2.3	33
285	9/8/2021 14:14	52.2	61.9		74	55.5	55.5	54.9	670	2.3	33.9
286	9/8/2021 14:15	52.5	62		73.7	55.2	55.2	54.3	665	1.8	35.5
287	9/8/2021 14:16	52.3	61.8		73.1	55.1	55.1	55	619	2.5	35
288	9/8/2021 14:17	52.5	62.1		73.5	55.2	55.2	54.1	682	2	34.9
289	9/8/2021 14:18	52.5	62.1		73.2	55.2	55.2	53.8	604	2.3	33.5
290	9/8/2021 14:19	52.6	62.1		72.8	55.3	55.3	53.9	633	2	34.3
291	9/8/2021 14:20	52.8	62.3		73.3	55.4	55.4	53.9	630	2.7	34.9
292	9/8/2021 14:21	52.6	62.2		73.7	55.2	55.2	54.1	625	1.8	34.1
293	9/8/2021 14:22	52.7	62.2		73.7	55.2	55.2	55.1	646	2.6	35.3
294	9/8/2021 14:23	52.7	62.5		74.3	55.5	55.5	55.1	670	2.2	37
295	9/8/2021 14:24	52.4	62		74.3	55.2	55.2	55	697	2	34.5
296	9/8/2021 14:25	52.4	62.2		74.8	54.8	54.8	54.6	708	1.8	35.2
297	9/8/2021 14:26	52.9	62.8		75.4	55.4	55.4	53.9	598	2.6	35
298	9/8/2021 14:27	53	62.9		76	55.4	55.4	54.1	742	2.3	35.4
299	9/8/2021 14:28	53	63		76.1	55.5	55.5	54	646	2.9	35.4
300	9/8/2021 14:29	52.9	62.6		68.6	55.8	55.8	55	542	2.8	33.7
301	9/8/2021 14:30	52.9	61.9		64.6	55.7	55.7	55.5	504	2.6	35.7
302	9/8/2021 14:31	52.8	60.5		63.8	55.6	55.6	55.3	508	2.8	35.4
303	9/8/2021 14:32	53	59.9		70.6	55.7	55.7	55.6	558	3.5	35.9
304	9/8/2021 14:33	52.9	59.5		67.8	55.8	55.8	55	536	2.9	33.8
305	9/8/2021 14:34	52.9	59.9		67.8	55.6	55.6	55.4	595	2.1	34.2

306	9/8/2021 14:35	52.9	60.6		72.3	55.5	55.5	55.3	504	1.9	35.1
307	9/8/2021 14:36	52.8	60.9		68.1	55.5	55.5	54	443	1.9	33.1
308	9/8/2021 14:37	52.9	60.9		65.6	55.7	55.7	54.9	426	2	34.1
309	9/8/2021 14:38	53	60.4		64.2	55.8	55.8	54.5	423	1.7	33.3
310	9/8/2021 14:39	52.6	59.1		69.8	55.7	55.7	55.6	422	2.3	34.8
311	9/8/2021 14:40	52.8	59.4		69.4	55.6	55.6	54.2	417	2.5	36.2
312	9/8/2021 14:41	53	60.1		72.1	55.7	55.7	55.3	410	2	33.7
313	9/8/2021 14:42	53.1	61.4		71.1	55.7	55.7	54.6	406	1.8	34.2
314	9/8/2021 14:43	52.9	61.4		69.4	55.7	55.7	54.3	401	2.5	33.4
315	9/8/2021 14:44	52.9	61.1		65	55.8	55.8	55.4	390	2.9	33.1
316	9/8/2021 14:45	53.1	60.3		66.4	55.8	55.8	54.7	374	2.3	35.3
317	9/8/2021 14:46	53.3	59.9		66.4	55.8	55.8	54.6	371	1.9	34.2
318	9/8/2021 14:47	53.1	59.6		62.1	56	56	54.8	366	2	33.9
319	9/8/2021 14:48	52.8	58.1		60.5	55.9	55.9	55.7	369	3.3	34.1
320	9/8/2021 14:49	52.1	55.6		59.4	55.7	55.7	55.3	374	2.8	33
321	9/8/2021 14:50	51.1	53.7		59.2	55.8	55.8	54.9	359	1.5	34.1
322	9/8/2021 14:51	49.5	51.9		61.1	55.8	55.8	55.2	355	1.2	33.9
323	9/8/2021 14:52	49.5	51.2		62.8	55.8	55.8	55.7	357	1.4	33.5
324	9/8/2021 14:53	49.1	50.1		60.3	55.7	55.7	55	357	1.4	32.5
325	9/8/2021 14:54	49.1	49.5		59.2	55.5	55.5	54.2	362	1.4	33.4
326	9/8/2021 14:55	49.4	50.1		58.4	55.7	55.7	55.2	385	1.3	33.2
327	9/8/2021 14:56	49.5	50.5		57.5	55.6	55.6	54.7	389	1.8	32.3
328	9/8/2021 14:57	49.6	50.6		56.4	55.5	55.5	54.8	371	2.5	34.1
329	9/8/2021 14:58	50	50.9		56	55.7	55.7	54.9	371	3.1	32.3
330	9/8/2021 14:59	49.9	51		55.5	55.5	55.5	54.3	367	2.3	32.7
331	9/8/2021 15:00	50	51.3		54.9	55.6	55.6	54.6	352	2.6	33.1
332	9/8/2021 15:01	50	51.2		54.5	55.5	55.5	55.3	337	2	32.7
333	9/8/2021 15:02	49.8	50.9		54.1	55.3	55.3	55.2	327	1.5	32.5
334	9/8/2021 15:03	49.6	50.9		53.2	55.4	55.4	55.3	329	1.6	32.6
335	9/8/2021 15:04	49.4	50.9		52.8	55.4	55.4	54.9	325	1.6	32.3
336	9/8/2021 15:05	49.2	50.9		52.3	55.4	55.4	54	339	1.5	33.1
337	9/8/2021 15:06	48.9	50.7		51.8	55.3	55.3	54.7	339	1	32.3
338	9/8/2021 15:07	48.5	50.6		51.5	55.3	55.3	53.8	360	1.1	32.2
339	9/8/2021 15:08	48.1	50.5		51.2	55.3	55.3	54.5	346	1.7	32
340	9/8/2021 15:09	47.2	49.7		51.1	54.7	54.7	53.5	424	1.9	32.4
341	9/8/2021 15:10	47.5	50.1		51	55.2	55.2	54.5	345	2.1	32.3
342	9/8/2021 15:11	47.1	49.8		50.8	54.9	54.9	54.1	318	2.3	32.6
343	9/8/2021 15:12	47.1	50.1		50.7	55.1	55.1	54.8	309	1.8	32.2
344	9/8/2021 15:13	46.6	49.8		50.2	54.9	54.9	54.8	300	1.8	31.8
345	9/8/2021 15:14	46.5	49.8		50.1	54.9	54.9	53.4	296	1.1	31.8
346	9/8/2021 15:15	46.5	49.8		50.6	55.1	55.1	55	293	0.8	31.9
347	9/8/2021 15:16	46.1	49.6		50.3	54.9	54.9	54	291	0.5	32.3
348	9/8/2021 15:17	46	49.8		56	55	55	54.4	292	1.4	33.2
349	9/8/2021 15:18	45.9	49.7		59.9	54.9	54.9	53.4	295	1.3	33.4

350	9/8/2021 15:19	45.7	49.5		61.7	54.7	54.7	53.8	320	1	33
351	9/8/2021 15:20	45.8	49.4		62.9	54.9	54.9	54.2	307	1	32.9
352	9/8/2021 15:21	46	49.1		63.6	54.8	54.8	54.5	304	1.6	34.2
353	9/8/2021 15:22	46.1	48.8		64.3	54.6	54.6	53.3	298	1.4	34.7
354	9/8/2021 15:23	46.5	48.8		65.2	54.8	54.8	54.6	295	1.5	34.5
355	9/8/2021 15:24	46.8	48.6		65.6	54.6	54.6	53.9	285	1.8	33.6
356	9/8/2021 15:25	46.8	48.3		65.7	54.5	54.5	53.2	277	2.3	33.7
357	9/8/2021 15:26	47.1	48.5		66.4	54.5	54.5	53.8	272	2.5	33.4
358	9/8/2021 15:27	47.6	48.6		66.4	54.6	54.6	54.5	267	2.4	34.9
359	9/8/2021 15:28	47.7	48.5		66.7	54.5	54.5	53.6	265	2.1	33.8
360	9/8/2021 15:29	48.3	48.9		67.2	54.6	54.6	53.3	267	1.9	35.5
361	9/8/2021 15:30	48.6	49		67.2	54.5	54.5	54.2	259	2	34
362	9/8/2021 15:31	49	49.2		67.2	54.6	54.6	54.2	250	1.8	34.7
363	9/8/2021 15:32	49.2	49.3		67.1	54.3	54.3	53.1	239	2.1	34.6
364	9/8/2021 15:33	49.9	49.8		67.8	54.5	54.5	53.3	232	1.9	36.3
365	9/8/2021 15:34	50.3	50		67.2	54.2	54.2	53.7	228	1.6	35.5
366	9/8/2021 15:35	50.9	49.5		67.5	53.8	53.8	52.3	225	1.8	35.7
367	9/8/2021 15:36	50.9	50.1		62.9	54.1	54.1	53.3	224	2.4	34.1
368	9/8/2021 15:37	51.5	50.4		66.7	54.2	54.2	53.3	222	1.5	34.3
369	9/8/2021 15:38	51.9	50.7		63.3	54.2	54.2	53.9	221	1	34.4
370	9/8/2021 15:39	52.3	50.9		66.8	54.1	54.1	53.2	220	1.8	34
371	9/8/2021 15:40	52.6	51.2		66.9	54	54	53.8	219	2.6	35.5
372	9/8/2021 15:41	52.7	51.4		67.1	54	54	53	216	2.3	33.1
373	9/8/2021 15:42	52.6	51.2		67.2	53.9	53.9	53.5	215	2.5	33.1
374	9/8/2021 15:43	52.9	51.1		67.4	53.9	53.9	52.7	214	1.8	33.7
375	9/8/2021 15:44	52.8	51.3		67.2	53.8	53.8	52.5	212	1.9	34.3
376	9/8/2021 15:45	53.1	51.4		67.2	54	54	53.8	210	2.1	34.7
377	9/8/2021 15:46	53.2	51.2		66.6	54	54	52.8	207	2.2	35.3
378	9/8/2021 15:47	53.4	51.5		67	53.8	53.8	53	205	2.2	36
379	9/8/2021 15:48	53.2	51.5		67	53.8	53.8	53.5	205	1.9	33.6
380	9/8/2021 15:49	53.4	51.7		66.9	53.9	53.9	52.7	204	1.9	34.9
381	9/8/2021 15:50	53.5	51.6		66.9	53.7	53.7	52.4	203	1.5	34.7
382	9/8/2021 15:51	53.5	51.6		67	53.7	53.7	52.3	202	1.2	34.1
383	9/8/2021 15:52	53.6	51.8		67	54	54	53.9	202	1.3	36.9
384	9/8/2021 15:53	54	51.3		66.8	53.4	53.4	53	202	1.8	33.6
385	9/8/2021 15:54	54	51.8		67	53.7	53.7	52.9	206	2.3	35
386	9/8/2021 15:55	54.1	51.8		66.9	53.7	53.7	52.8	216	1.8	34.4
387	9/8/2021 15:56	54	51.6		66.6	53.3	53.3	52.8	247	1.2	34.9
388	9/8/2021 15:57	54.3	51.8		66.4	53.7	53.7	52.6	238	2	36.7
389	9/8/2021 15:58	54.4	52.1		66.5	53.8	53.8	53.5	324	2.1	36.5
390	9/8/2021 15:59	54.3	52.1		66	53.6	53.6	53.2	320	2.3	34.8
391	9/8/2021 16:00	53.9	52		66	53.8	53.8	53.5	254	2.1	35.9
392	9/8/2021 16:01	54.1	51.9		65.7	53.6	53.6	52.6	249	1.8	34
393	9/8/2021 16:02	54.5	51.9		65.7	53.7	53.7	52.2	260	2.1	34.2

394	9/8/2021 16:03	54.5	51.6		65.5	53.6	53.6	52.6	268	2.1	33.8
395	9/8/2021 16:04	54.6	51.9		65.4	53.7	53.7	53.4	306	1.9	33.1
396	9/8/2021 16:05	54.4	52.2		65.1	53.3	53.3	52.1	287	2.2	34.6
397	9/8/2021 16:06	54.5	51.8		63.5	53.7	53.7	53.1	288	1.5	33
398	9/8/2021 16:07	54.5	51.4		62	53.5	53.5	53.4	343	2.6	32.7
399	9/8/2021 16:08	54.5	51.4		62.1	53.5	53.5	52.3	349	2.3	33.6
400	9/8/2021 16:09	54.4	51.6		61.6	53.5	53.5	52.4	287	2.1	33.2
401	9/8/2021 16:10	54.2	51.6		62.1	53.5	53.5	53.2	270	2.6	36.2
402	9/8/2021 16:11	54.6	51.9		62	53.5	53.5	52.3	281	2.6	34.9
403	9/8/2021 16:12	53.8	51.8		61.6	53.5	53.5	53.4	282	1.7	34.5
404	9/8/2021 16:13	53.7	51.6		61.8	53.5	53.5	52.9	308	2.3	33.8
405	9/8/2021 16:14	53.5	51.7		61.8	53.5	53.5	52	311	3.3	33.9
406	9/8/2021 16:15	53.4	51.6		61.7	53.5	53.5	53.1	276	2.4	35.8
407	9/8/2021 16:16	53.4	51.7		61.5	53.2	53.2	52.6	319	2.3	35
408	9/8/2021 16:17	53.2	51.5		61.1	53.4	53.4	52.2	363	2.1	36.2
409	9/8/2021 16:18	53.1	51.4		61.2	53.5	53.5	53	330	2.4	35.1
410	9/8/2021 16:19	52.5	51		60.8	53	53	51.9	296	2.2	34.6
411	9/8/2021 16:20	52.6	51.3		60.6	53.5	53.5	53.1	305	2.6	34.3
412	9/8/2021 16:21	52.7	51.4		59.1	53.4	53.4	52	386	1.8	35
413	9/8/2021 16:22	52.6	51.4		59.9	53.4	53.4	51.9	404	2.1	35.5
414	9/8/2021 16:23	52.5	51.4		59.2	53.3	53.3	52.2	401	2.2	35.2
415	9/8/2021 16:24	52	51.1		57.5	53	53	52.6	395	2.4	35
416	9/8/2021 16:25	52.5	51.4		57.6	53.3	53.3	52.7	386	1.7	34.2
417	9/8/2021 16:26	52.1	51.1		57.5	53.2	53.2	52	234	1.3	36
418	9/8/2021 16:27	51.8	51.3		58.1	53.1	53.1	52.1	360	1.2	34.4
419	9/8/2021 16:28	51.4	51.1		57.7	53.2	53.2	51.8	355	2	33.6
420	9/8/2021 16:29	51	51.1		56.3	53.3	53.3	52.4	298	2.2	35.1
421	9/8/2021 16:30	50.8	51.1		55.3	53.5	53.5	53	336	2	34.4

Lampiran 8
Tabel perhitungan

08 September 2021																				
Pelat absorber V dengan storage full PCM							Pelat datar tanpa PCM storage							Pelat absorber V dengan PCM storage						
Ut (W/m ² K)	Ub (W/m ² K)	UL (W/m ² K)	S (W/m ² 2K)	ṁ (kg/s)	Qu (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	UL (W/m ² K)	S (W/m ² K)	ṁ (kg/s)	Qu (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	UL (W/m ² K)	S (W/m ² 2K)	ṁ (kg/s)	Qu (Watt)	η (%)
4.61	0.68	5.29	235.60	-0.00230	59.64	0.6	4.77	0.69	5.45	235.60	0.00130	61.18	0.58	5.00	0.69	5.69	235.60	0.00113	61.18	0.58
4.51	0.68	5.20	237.31	-0.00233	63.21	0.6	4.66	0.69	5.35	237.31	0.00136	64.81	0.61	4.89	0.69	5.58	237.31	0.00118	65.18	0.61
4.57	0.68	5.26	239.89	-0.00228	64.92	0.6	4.73	0.69	5.42	239.89	0.00140	66.59	0.62	4.97	0.69	5.66	239.89	0.00118	66.24	0.61
4.58	0.69	5.27	243.31	-0.00218	68.41	0.6	4.75	0.69	5.44	243.31	0.00147	69.91	0.64	4.99	0.69	5.68	243.31	0.00120	69.48	0.63
4.54	0.69	5.23	247.60	-0.00209	67.26	0.6	4.75	0.69	5.44	247.60	0.00145	68.55	0.61	4.99	0.69	5.68	247.60	0.00117	67.73	0.61
4.61	0.69	5.29	253.59	-0.00245	75.66	0.7	4.82	0.69	5.51	253.59	0.00163	77.71	0.68	5.06	0.69	5.75	253.59	0.00129	77.30	0.68
4.46	0.69	5.14	260.45	-0.00235	75.56	0.6	4.69	0.69	5.38	260.45	0.00156	77.67	0.66	4.94	0.69	5.62	260.45	0.00129	75.72	0.64
4.47	0.69	5.15	269.01	-0.00237	75.39	0.6	4.63	0.69	5.31	269.01	0.00160	76.67	0.63	4.89	0.69	5.58	269.01	0.00124	75.90	0.63
4.66	0.69	5.34	276.72	-0.00262	88.65	0.7	4.87	0.69	5.56	276.72	0.00191	90.90	0.73	5.13	0.69	5.82	276.72	0.00140	90.28	0.72
4.57	0.69	5.25	286.15	-0.00239	81.04	0.6	4.75	0.69	5.44	286.15	0.00172	82.80	0.64	5.01	0.69	5.70	286.15	0.00129	81.49	0.63
4.52	0.69	5.21	298.14	-0.00248	84.00	0.6	4.67	0.69	5.36	298.14	0.00178	85.59	0.64	4.94	0.69	5.63	298.14	0.00132	84.63	0.63
4.58	0.69	5.27	314.42	-0.00280	93.52	0.7	4.76	0.69	5.45	314.42	0.00195	96.19	0.68	5.03	0.69	5.72	314.42	0.00147	95.07	0.67
4.54	0.69	5.22	330.70	-0.00280	94.90	0.6	4.68	0.69	5.37	330.70	0.00202	97.14	0.65	4.95	0.69	5.64	330.70	0.00151	96.40	0.65
4.49	0.69	5.17	316.99	-0.00285	89.48	0.6	4.64	0.69	5.32	316.99	0.00185	92.03	0.64	4.91	0.69	5.60	316.99	0.00141	90.67	0.63
4.57	0.69	5.26	303.28	-0.00257	82.75	0.6	4.69	0.69	5.38	303.28	0.00171	84.81	0.62	4.97	0.69	5.66	303.28	0.00131	83.47	0.61
4.48	0.69	5.17	297.29	-0.00268	83.96	0.6	4.60	0.69	5.28	297.29	0.00173	86.09	0.64	4.88	0.69	5.56	297.29	0.00130	84.84	0.63
4.46	0.69	5.15	292.15	-0.00243	83.38	0.6	4.57	0.69	5.26	292.15	0.00175	86.10	0.65	4.86	0.69	5.55	292.15	0.00127	84.08	0.64
4.51	0.69	5.20	287.86	-0.00236	86.88	0.7	4.72	0.69	5.41	287.86	0.00174	88.74	0.68	5.00	0.69	5.69	287.86	0.00127	86.94	0.67
4.56	0.69	5.24	284.44	-0.00223	81.25	0.6	4.78	0.69	5.46	284.44	0.00167	82.37	0.64	5.05	0.69	5.74	284.44	0.00114	80.70	0.63
4.51	0.69	5.20	282.72	-0.00226	79.37	0.6	4.69	0.69	5.38	282.72	0.00165	82.03	0.64	4.98	0.69	5.67	282.72	0.00112	78.84	0.62
4.57	0.69	5.26	282.72	-0.00230	75.98	0.6	4.72	0.69	5.40	282.72	0.00157	77.33	0.61	4.99	0.69	5.68	282.72	0.00106	75.18	0.59
4.56	0.68	5.24	285.29	-0.00276	79.72	0.6	4.66	0.69	5.35	285.29	0.00162	82.44	0.64	4.94	0.69	5.63	285.29	0.00113	80.25	0.62
4.59	0.69	5.27	289.58	-0.00274	80.20	0.6	4.66	0.69	5.35	289.58	0.00162	82.44	0.63	4.94	0.69	5.62	289.58	0.00116	80.67	0.62
4.49	0.68	5.17	294.72	-0.00291	83.81	0.6	4.54	0.69	5.23	294.72	0.00171	86.54	0.65	4.82	0.69	5.51	294.72	0.00123	85.35	0.64
4.54	0.69	5.22	302.43	-0.00293	85.57	0.6	4.59	0.69	5.28	302.43	0.00173	88.26	0.65	4.86	0.69	5.55	302.43	0.00127	87.28	0.64
4.62	0.69	5.30	316.13	-0.00307	90.97	0.6	4.68	0.69	5.37	316.13	0.00182	93.68	0.66	4.97	0.69	5.65	316.13	0.00134	92.68	0.65
4.55	0.69	5.23	327.27	-0.00310	97.06	0.7	4.62	0.69	5.31	327.27	0.00194	99.79	0.68	4.91	0.69	5.60	327.27	0.00140	99.03	0.67
4.58	0.69	5.26	333.27	-0.00315	97.45	0.6	4.64	0.69	5.33	333.27	0.00195	100.32	0.67	4.92	0.69	5.61	333.27	0.00143	99.51	0.66
4.36	0.69	5.04	331.56	-0.00307	98.67	0.7	4.42	0.69	5.11	331.56	0.00198	101.55	0.68	4.72	0.69	5.41	331.56	0.00141	100.41	0.67
4.45	0.69	5.13	334.98	-0.00311	101.25	0.7	4.52	0.69	5.21	334.98	0.00198	104.12	0.69	4.81	0.69	5.50	334.98	0.00140	103.01	0.68
4.35	0.69	5.03	332.41	-0.00287	98.19	0.7	4.40	0.69	5.09	332.41	0.00200	100.48	0.67	4.71	0.69	5.39	332.41	0.00134	99.39	0.66
4.47	0.69	5.16	332.41	-0.00284	97.17	0.6	4.55	0.69	5.24	332.41	0.00190	99.49	0.66	4.85	0.69	5.53	332.41	0.00129	97.76	0.65
4.52	0.69	5.21	333.27	-0.00292	100.04	0.7	4.61	0.69	5.30	333.27	0.00203	102.89	0.68	4.91	0.69	5.60	333.27	0.00134	101.08	0.67
4.42	0.69	5.11	338.41	-0.00291	96.08	0.6	4.46	0.69	5.15	338.41	0.00189	98.74	0.65	4.74	0.69	5.43	338.41	0.00128	96.55	0.63
4.56	0.69	5.24	342.69	-0.00329	94.88	0.6	4.61	0.69	5.29	342.69	0.00193	98.24	0.64	4.88	0.69	5.57	342.69	0.00131	97.10	0.63
4.45	0.69	5.13	346.98	-0.00331	99.66	0.6	4.46	0.69	5.15	346.98	0.00196	102.95	0.66	4.75	0.69	5.44	346.98	0.00138	102.02	0.65
4.50	0.69	5.18	349.55	-0.00330	99.34	0.6	4.52	0.69	5.21	349.55	0.00193	102.54	0.65	4.77	0.69	5.46	349.55	0.00139	101.83	0.65
4.53	0.69	5.21	349.55	-0.00333	98.87	0.6	4.55	0.69	5.24	349.55	0.00196	102.29	0.65	4.81	0.69	5.50	349.55	0.00140	101.65	0.64
4.54	0.69	5.23	346.98	-0.00337	101.25	0.6	4.56	0.69	5.24	346.98	0.00202	104.43	0.67	4.81	0.69	5.50	346.98	0.00143	104.49	0.67
4.53	0.69	5.21	343.55	-0.00311	97.45	0.6	4.56	0.69	5.24	343.55	0.00197	100.57	0.65	4.80	0.69	5.49	343.55	0.00140	100.15	0.65

4.55	0.69	5.23	339.27	-0.00319	95.89	0.6	4.55	0.69	5.24	339.27	0.00189	98.91	0.65	4.81	0.69	5.50	339.27	0.00134	98.25	0.64
4.43	0.69	5.12	334.98	-0.00322	97.02	0.6	4.43	0.69	5.12	334.98	0.00198	100.12	0.66	4.72	0.69	5.40	334.98	0.00133	99.19	0.66
4.37	0.69	5.05	329.84	-0.00311	98.71	0.7	4.38	0.69	5.07	329.84	0.00197	101.23	0.68	4.69	0.69	5.38	329.84	0.00131	100.82	0.68
4.36	0.69	5.05	326.42	-0.00286	95.58	0.6	4.37	0.69	5.06	326.42	0.00193	97.70	0.66	4.68	0.69	5.37	326.42	0.00125	97.17	0.66
4.38	0.69	5.07	323.84	-0.00272	93.04	0.6	4.38	0.69	5.07	323.84	0.00185	95.16	0.65	4.65	0.69	5.34	323.84	0.00120	92.99	0.64
4.58	0.69	5.27	322.99	-0.00280	93.53	0.6	4.59	0.69	5.28	322.99	0.00186	95.57	0.66	4.84	0.69	5.53	322.99	0.00121	94.74	0.65
4.62	0.69	5.30	320.42	-0.00278	88.35	0.6	4.64	0.69	5.33	320.42	0.00173	90.59	0.63	4.89	0.69	5.58	320.42	0.00115	89.40	0.62
4.61	0.69	5.29	316.99	-0.00282	89.43	0.6	4.63	0.69	5.32	316.99	0.00175	91.56	0.64	4.90	0.69	5.59	316.99	0.00117	90.78	0.63
4.57	0.69	5.25	313.56	-0.00263	89.08	0.6	4.58	0.69	5.27	313.56	0.00172	90.70	0.64	4.83	0.69	5.51	313.56	0.00118	89.70	0.63
4.55	0.69	5.24	310.99	-0.00280	88.95	0.6	4.55	0.69	5.24	310.99	0.00173	91.08	0.65	4.79	0.69	5.48	310.99	0.00116	90.42	0.64
4.58	0.69	5.27	310.14	-0.00280	87.86	0.6	4.58	0.69	5.27	310.14	0.00174	89.44	0.64	4.81	0.69	5.49	310.14	0.00115	89.26	0.64
4.48	0.69	5.16	310.99	-0.00271	88.19	0.6	4.49	0.69	5.18	310.99	0.00173	89.80	0.64	4.75	0.69	5.44	310.99	0.00113	89.30	0.64
4.63	0.69	5.32	317.85	-0.00254	90.23	0.6	4.67	0.69	5.35	317.85	0.00174	90.73	0.63	4.92	0.69	5.61	317.85	0.00125	93.99	0.66
4.73	0.69	5.41	328.13	-0.00289	90.64	0.6	4.76	0.69	5.44	328.13	0.00180	92.46	0.62	4.99	0.69	5.68	328.13	0.00109	93.82	0.63
4.77	0.69	5.45	339.27	-0.00313	94.12	0.6	4.80	0.69	5.49	339.27	0.00187	95.87	0.63	5.03	0.69	5.72	339.27	0.00119	96.51	0.63
4.81	0.69	5.50	349.55	-0.00327	97.03	0.6	4.84	0.69	5.53	349.55	0.00189	99.40	0.63	5.09	0.69	5.78	349.55	0.00128	99.48	0.63
4.76	0.69	5.45	356.40	-0.00327	102.39	0.6	4.78	0.69	5.46	356.40	0.00200	103.81	0.65	5.00	0.69	5.69	356.40	0.00133	104.67	0.65
4.85	0.69	5.53	359.83	-0.00329	104.54	0.6	4.88	0.69	5.57	359.83	0.00205	106.45	0.66	5.12	0.69	5.81	359.83	0.00140	106.84	0.66
4.75	0.69	5.43	357.26	-0.00320	102.86	0.6	4.76	0.69	5.45	357.26	0.00204	104.64	0.65	4.99	0.69	5.68	357.26	0.00137	105.01	0.65
4.82	0.69	5.51	348.69	-0.00302	99.82	0.6	4.85	0.69	5.53	348.69	0.00197	101.24	0.64	5.12	0.69	5.81	348.69	0.00131	101.28	0.64
4.78	0.69	5.47	342.69	-0.00309	96.73	0.6	4.80	0.69	5.49	342.69	0.00187	98.37	0.64	5.03	0.69	5.72	342.69	0.00128	98.60	0.64
4.75	0.69	5.44	336.70	-0.00300	94.08	0.6	4.77	0.69	5.45	336.70	0.00186	95.75	0.63	5.01	0.69	5.70	336.70	0.00124	95.63	0.63
4.97	0.69	5.65	330.70	-0.00295	92.33	0.6	5.00	0.69	5.68	330.70	0.00179	93.75	0.63	5.24	0.69	5.92	330.70	0.00122	93.68	0.63
4.94	0.69	5.63	327.27	-0.00295	91.38	0.6	4.97	0.69	5.65	327.27	0.00179	92.92	0.63	5.18	0.69	5.87	327.27	0.00123	93.33	0.63
4.90	0.69	5.59	326.42	-0.00285	89.47	0.6	4.93	0.69	5.62	326.42	0.00174	90.68	0.62	5.18	0.69	5.87	326.42	0.00117	90.73	0.62
4.76	0.69	5.45	328.13	-0.00284	92.64	0.6	4.78	0.69	5.46	328.13	0.00177	94.49	0.64	5.03	0.69	5.72	328.13	0.00122	93.50	0.63
4.74	0.69	5.42	336.70	-0.00284	95.08	0.6	4.78	0.69	5.47	336.70	0.00184	95.28	0.63	5.01	0.69	5.70	336.70	0.00124	95.53	0.63
4.84	0.69	5.52	349.55	-0.00307	100.18	0.6	4.89	0.69	5.58	349.55	0.00194	101.25	0.64	5.11	0.69	5.79	349.55	0.00130	101.41	0.64
4.82	0.69	5.50	352.12	-0.00320	100.34	0.6	4.89	0.69	5.57	352.12	0.00185	101.48	0.64	5.14	0.69	5.83	352.12	0.00131	102.28	0.64
4.66	0.69	5.35	353.83	-0.00305	104.64	0.7	4.72	0.69	5.41	353.83	0.00203	105.95	0.66	4.99	0.69	5.68	353.83	0.00135	105.72	0.66
4.68	0.69	5.36	358.11	-0.00310	102.32	0.6	4.72	0.69	5.41	358.11	0.00198	103.58	0.64	4.98	0.69	5.67	358.11	0.00130	103.59	0.64
4.75	0.69	5.43	356.40	-0.00306	106.15	0.7	4.82	0.69	5.51	356.40	0.00208	107.60	0.67	5.08	0.69	5.77	356.40	0.00133	107.55	0.67
4.71	0.69	5.40	334.13	-0.00274	96.16	0.6	4.77	0.69	5.46	334.13	0.00185	96.52	0.64	5.00	0.69	5.69	334.13	0.00120	96.64	0.64
4.49	0.69	5.18	302.43	-0.00251	86.15	0.6	4.51	0.69	5.20	302.43	0.00164	86.20	0.63	4.73	0.69	5.42	302.43	0.00107	86.25	0.63
4.82	0.69	5.51	277.58	-0.00245	79.97	0.6	4.89	0.69	5.58	277.58	0.00156	79.51	0.64	5.13	0.69	5.82	277.58	0.00101	80.05	0.64
4.73	0.69	5.42	259.59	-0.00220	71.86	0.6	4.79	0.69	5.48	259.59	0.00132	70.41	0.60	5.02	0.69	5.71	259.59	0.00089	70.55	0.60
4.69	0.69	5.37	250.17	-0.00203	71.93	0.6	4.75	0.69	5.44	250.17	0.00134	70.33	0.62	5.01	0.69	5.70	250.17	0.00088	70.46	0.62
4.83	0.69	5.51	257.02	-0.00183	68.65	0.6	4.92	0.69	5.60	257.02	0.00124	67.07	0.58	5.15	0.69	5.84	257.02	0.00084	66.85	0.58
4.73	0.69	5.41	282.72	-0.00246	85.42	0.7	4.81	0.69	5.50	282.72	0.00164	84.55	0.66	5.06	0.69	5.75	282.72	0.00104	85.38	0.67
4.67	0.69	5.36	328.13	-0.00297	103.02	0.7	4.75	0.69	5.43	328.13	0.00194	102.77	0.69	5.00	0.69	5.68	328.13	0.00126	104.04	0.70
4.74	0.69	5.43	358.97	-0.00283	111.23	0.7	4.84	0.69	5.53	358.97	0.00207	110.57	0.68	5.09	0.69	5.78	358.97	0.00133	111.79	0.69
4.84	0.69	5.53	424.94	-0.00345	131.37	0.7	4.94	0.69	5.62	424.94	0.00246	131.44	0.69	5.20	0.69	5.89	424.94	0.00157	132.91	0.69
4.88	0.69	5.57	442.07	-0.00360	132.48	0.7	4.97	0.69	5.66	442.07	0.00248	132.75	0.67	5.19	0.69	5.88	442.07	0.00159	134.38	0.67
4.86	0.69	5.54	479.77	-0.00441	145.70	0.7	4.93	0.69	5.62	479.77	0.00274	147.88	0.68	5.13	0.69	5.82	479.77	0.00182	150.50	0.70
4.91	0.69	5.59	553.45	-0.00504	170.45	0.7	5.00	0.69	5.69	553.45	0.00318	172.84	0.69	5.22	0.69	5.90	553.45	0.00213	176.29	0.71
4.89	0.69	5.58	641.69	-0.00582	201.97	0.7	4.98	0.69	5.67	641.69	0.00369	204.88	0.71	5.17	0.69	5.86	641.69	0.00258	210.37	0.73
4.73	0.69	5.42	559.45	-0.00496	172.17	0.7	4.81	0.69	5.50	559.45	0.00322	173.71	0.69	5.01	0.69	5.69	559.45	0.00221	177.86	0.70
4.85	0.69	5.54	448.93	-0.00373	135.56	0.7	4.96	0.69	5.65	448.93	0.00247	135.43	0.67	5.20	0.69	5.89	448.93	0.00166	138.27	0.68
4.87	0.69	5.56	411.23	-0.00306	123.92	0.7	5.01	0.69	5.70	411.23	0.00226	122.67	0.66	5.28	0.69	5.96	411.23	0.00147	124.47	0.67
4.76	0.69	5.45	358.97	-0.00240	104.44	0.6	4.86	0.69	5.55	358.97	0.00191	103.16	0.64	5.09	0.69	5.78	358.97	0.00120	103.92	0.64
4.74	0.69	5.42	364.97	-0.00274	108.82	0.7	4.82	0.69	5.51	364.97	0.00203	107.70	0.65	5.05	0.69	5.73	364.97	0.00126	108.92	0.66
4.76	0.69	5.44	361.54	-0.00289	103.77	0.6	4.83	0.69	5.52	361.54	0.00197	102.86	0.63	5.05	0.69	5.74	361.54	0.00119	104.06	0.64
4.77	0.69	5.45	389.81	-0.00345	119.77	0.7	4.85	0.69	5.54	389.81	0.00222	119.55	0.68	5.07	0.69	5.76	389.81	0.00138	121.06	0.69

4.90	0.69	5.59	366.68	-0.00267	106.16	0.6	5.01	0.69	5.70	366.68	0.00190	104.90	0.63	5.23	0.69	5.92	366.68	0.00123	106.28	0.64
4.80	0.69	5.49	370.11	-0.00276	104.96	0.6	4.89	0.69	5.58	370.11	0.00193	103.48	0.62	5.08	0.69	5.76	370.11	0.00120	104.83	0.63
4.80	0.69	5.49	376.96	-0.00313	108.40	0.6	4.89	0.69	5.58	376.96	0.00200	107.56	0.63	5.11	0.69	5.80	376.96	0.00126	109.48	0.64
4.78	0.69	5.47	426.65	-0.00359	128.96	0.7	4.87	0.69	5.56	426.65	0.00238	128.23	0.67	5.07	0.69	5.76	426.65	0.00152	131.24	0.68
4.66	0.69	5.35	472.06	-0.00392	142.53	0.7	4.74	0.69	5.43	472.06	0.00272	142.22	0.67	4.93	0.69	5.62	472.06	0.00175	145.21	0.68
4.77	0.69	5.45	465.21	-0.00375	139.40	0.7	4.86	0.69	5.54	465.21	0.00259	138.80	0.66	5.09	0.69	5.78	465.21	0.00161	141.59	0.67
4.61	0.69	5.29	687.10	-0.00611	227.14	0.7	4.67	0.69	5.36	687.10	0.00438	230.67	0.74	4.90	0.69	5.59	687.10	0.00262	234.24	0.76
4.59	0.69	5.27	395.81	-0.00297	119.24	0.7	4.66	0.69	5.35	395.81	0.00219	118.12	0.66	4.86	0.69	5.54	395.81	0.00136	120.50	0.68
4.56	0.69	5.24	495.19	-0.00407	158.18	0.7	4.67	0.69	5.36	495.19	0.00281	157.57	0.71	4.91	0.69	5.60	495.19	0.00176	161.20	0.72
4.65	0.69	5.34	805.33	-0.00682	268.07	0.7	4.79	0.69	5.47	805.33	0.00497	270.13	0.74	5.03	0.69	5.72	805.33	0.00298	275.61	0.76
4.67	0.69	5.36	643.41	-0.00518	203.62	0.7	4.78	0.69	5.47	643.41	0.00380	204.76	0.71	5.02	0.69	5.71	643.41	0.00226	208.41	0.72
4.64	0.69	5.33	701.66	-0.00586	227.62	0.7	4.76	0.69	5.45	701.66	0.00435	228.86	0.72	4.97	0.69	5.66	701.66	0.00252	233.82	0.74
4.65	0.69	5.34	652.83	-0.00549	208.60	0.7	4.74	0.69	5.42	652.83	0.00390	210.31	0.71	4.92	0.69	5.60	652.83	0.00231	214.68	0.73
4.60	0.69	5.29	843.88	-0.00719	276.47	0.7	4.73	0.69	5.42	843.88	0.00514	279.42	0.73	4.96	0.69	5.65	843.88	0.00306	285.22	0.75
4.64	0.69	5.33	704.23	-0.00556	229.91	0.7	4.74	0.69	5.43	704.23	0.00427	230.23	0.72	4.96	0.69	5.65	704.23	0.00250	235.07	0.74
4.68	0.69	5.37	524.32	-0.00428	166.37	0.7	4.78	0.69	5.47	524.32	0.00306	166.14	0.70	5.03	0.69	5.72	524.32	0.00179	169.16	0.72
4.79	0.69	5.48	455.78	-0.00341	139.48	0.7	4.92	0.69	5.60	455.78	0.00254	137.85	0.67	5.14	0.69	5.82	455.78	0.00146	140.22	0.68
4.77	0.69	5.46	632.27	-0.00527	202.79	0.7	4.87	0.69	5.56	632.27	0.00386	203.12	0.71	5.10	0.69	5.79	632.27	0.00217	208.52	0.73
4.75	0.69	5.44	824.18	-0.00670	268.85	0.7	4.87	0.69	5.56	824.18	0.00495	270.75	0.73	5.10	0.69	5.79	824.18	0.00296	276.78	0.74
4.73	0.69	5.42	633.13	-0.00491	198.93	0.7	4.85	0.69	5.53	633.13	0.00363	198.93	0.70	5.08	0.69	5.77	633.13	0.00222	203.79	0.71
4.86	0.69	5.54	652.83	-0.00552	205.27	0.7	4.85	0.69	5.54	652.83	0.00381	206.74	0.70	5.06	0.69	5.75	652.83	0.00233	212.54	0.72
4.68	0.69	5.37	720.51	-0.00619	232.73	0.7	4.65	0.69	5.33	720.51	0.00426	235.24	0.72	4.86	0.69	5.55	720.51	0.00264	241.61	0.74
4.75	0.69	5.44	777.91	-0.00604	252.22	0.7	4.74	0.69	5.43	777.91	0.00456	253.69	0.72	4.98	0.69	5.67	777.91	0.00281	259.33	0.74
4.82	0.69	5.50	738.50	-0.00555	238.91	0.7	4.81	0.69	5.50	738.50	0.00431	239.35	0.72	5.02	0.69	5.71	738.50	0.00257	245.10	0.74
4.63	0.69	5.32	535.46	-0.00398	166.35	0.7	4.66	0.69	5.35	535.46	0.00305	164.61	0.68	4.86	0.69	5.55	535.46	0.00175	168.88	0.70
4.43	0.69	5.11	663.97	-0.00513	212.37	0.7	4.40	0.69	5.09	663.97	0.00406	212.15	0.71	4.55	0.69	5.24	663.97	0.00229	218.04	0.73
4.71	0.69	5.40	593.72	-0.00505	190.03	0.7	4.66	0.69	5.35	593.72	0.00368	190.63	0.71	4.90	0.69	5.59	593.72	0.00209	196.17	0.73
4.98	0.69	5.67	621.99	-0.00499	196.16	0.7	4.97	0.69	5.66	621.99	0.00358	195.87	0.70	5.21	0.69	5.90	621.99	0.00210	201.25	0.72
4.97	0.69	5.66	625.41	-0.00454	199.09	0.7	4.98	0.69	5.67	625.41	0.00351	197.84	0.70	5.19	0.69	5.88	625.41	0.00209	202.85	0.72
4.91	0.69	5.59	643.41	-0.00466	200.46	0.7	4.91	0.69	5.59	643.41	0.00357	199.65	0.69	5.10	0.69	5.79	643.41	0.00211	204.97	0.71
4.83	0.69	5.52	588.58	-0.00466	179.03	0.7	4.79	0.69	5.48	588.58	0.00321	178.67	0.67	5.00	0.69	5.69	588.58	0.00189	183.57	0.69
4.61	0.69	5.29	530.32	-0.00402	162.92	0.7	4.56	0.69	5.25	530.32	0.00288	161.48	0.68	4.70	0.69	5.39	530.32	0.00167	166.32	0.70
4.56	0.69	5.24	511.47	-0.00395	156.80	0.7	4.49	0.69	5.17	511.47	0.00284	155.48	0.67	4.65	0.69	5.34	511.47	0.00160	159.97	0.69
4.76	0.69	5.45	495.19	-0.00358	146.43	0.7	4.74	0.69	5.43	495.19	0.00259	144.10	0.65	4.89	0.69	5.58	495.19	0.00154	148.86	0.67
4.97	0.69	5.65	498.62	-0.00378	148.42	0.7	4.95	0.69	5.63	498.62	0.00270	145.67	0.65	5.12	0.69	5.81	498.62	0.00158	151.40	0.67
4.76	0.69	5.45	507.19	-0.00367	153.48	0.7	4.75	0.69	5.44	507.19	0.00284	150.57	0.66	4.93	0.69	5.62	507.19	0.00159	155.81	0.68
4.83	0.69	5.52	540.60	-0.00396	164.03	0.7	4.82	0.69	5.51	540.60	0.00315	161.87	0.66	4.98	0.69	5.67	540.60	0.00185	168.79	0.69
4.71	0.69	5.40	493.48	-0.00381	148.14	0.7	4.70	0.69	5.38	493.48	0.00295	145.45	0.65	4.84	0.69	5.53	493.48	0.00181	153.61	0.69
4.78	0.69	5.47	477.20	-0.00380	141.42	0.7	4.75	0.69	5.44	477.20	0.00289	138.75	0.64	4.91	0.69	5.60	477.20	0.00187	148.02	0.69
4.86	0.69	5.55	514.04	-0.00402	152.97	0.7	4.85	0.69	5.54	514.04	0.00312	149.88	0.65	5.06	0.69	5.75	514.04	0.00177	157.27	0.68
4.93	0.69	5.61	465.21	-0.00370	140.84	0.7	4.94	0.69	5.63	465.21	0.00288	137.40	0.65	5.15	0.69	5.84	465.21	0.00152	143.64	0.68
4.90	0.69	5.59	477.20	-0.00379	144.08	0.7	4.93	0.69	5.61	477.20	0.00283	140.96	0.65	5.12	0.69	5.80	477.20	0.00154	146.31	0.68
4.90	0.64	5.54	462.64	-0.00125	51.02	0.2	4.93	0.69	5.61	462.64	0.00273	135.73	0.65	5.14	0.69	5.83	462.64	0.00141	140.54	0.67
4.91	0.69	5.59	476.34	-0.00360	140.04	0.7	4.92	0.69	5.61	476.34	0.00276	137.29	0.64	5.09	0.69	5.78	476.34	0.00143	142.54	0.66
4.70	0.69	5.39	507.19	-0.00416	151.38	0.7	4.70	0.69	5.38	507.19	0.00295	149.07	0.65	4.82	0.69	5.51	507.19	0.00170	156.24	0.68
4.73	0.69	5.42	563.73	-0.00460	170.92	0.7	4.73	0.69	5.42	563.73	0.00321	169.10	0.67	4.87	0.69	5.56	563.73	0.00184	176.60	0.69
4.64	0.69	5.32	571.44	-0.00431	174.58	0.7	4.62	0.69	5.31	571.44	0.00324	171.92	0.67	4.80	0.69	5.48	571.44	0.00179	178.41	0.69
4.63	0.69	5.32	618.56	-0.00463	191.57	0.7	4.69	0.69	5.38	618.56	0.00373	188.50	0.68	4.88	0.69	5.57	618.56	0.00210	196.71	0.71
4.69	0.69	5.38	473.77	-0.00347	142.04	0.7	4.73	0.69	5.42	473.77	0.00303	138.03	0.65	4.88	0.69	5.56	473.77	0.00145	144.48	0.68
4.62	0.69	5.31	481.48	-0.00334	147.87	0.7	4.66	0.69	5.34	481.48	0.00298	144.25	0.66	4.82	0.69	5.50	481.48	0.00148	150.03	0.69
4.65	0.69	5.34	392.38	-0.00266	116.57	0.7	4.68	0.69	5.36	392.38	0.00219	112.82	0.64	4.85	0.69	5.54	392.38	0.00111	116.34	0.66
4.90	0.69	5.59	365.82	-0.00226	101.27	0.6	4.94	0.69	5.62	365.82	0.00184	97.06	0.59	5.09	0.69	5.78	365.82	0.00098	100.57	0.61
4.82	0.69	5.51	354.69	-0.00238	96.55	0.6	4.88	0.69	5.57	354.69	0.00178	91.54	0.57	5.06	0.69	5.75	354.69	0.00089	94.04	0.59

4.74	0.69	5.43	340.98	-0.00239	88.91	0.6	4.74	0.69	5.43	340.98	0.00164	84.05	0.55	4.85	0.69	5.54	340.98	0.00088	88.18	0.57
4.88	0.69	5.57	334.98	-0.00239	91.91	0.6	4.92	0.69	5.60	334.98	0.00166	86.08	0.57	5.06	0.69	5.74	334.98	0.00086	89.73	0.59
4.88	0.69	5.57	328.99	-0.00224	86.04	0.6	4.93	0.69	5.62	328.99	0.00151	79.72	0.54	5.07	0.69	5.76	328.99	0.00081	83.69	0.56
4.52	0.69	5.21	361.54	-0.00250	100.48	0.6	4.54	0.69	5.23	361.54	0.00178	95.10	0.58	4.67	0.69	5.35	361.54	0.00094	99.14	0.61
4.60	0.69	5.29	334.98	-0.00226	93.49	0.6	4.62	0.69	5.31	334.98	0.00160	88.53	0.59	4.79	0.69	5.48	334.98	0.00086	92.02	0.61
4.48	0.69	5.16	349.55	-0.00232	99.83	0.6	4.51	0.69	5.19	349.55	0.00177	95.35	0.60	4.61	0.69	5.30	349.55	0.00088	98.12	0.62
4.55	0.69	5.23	297.29	-0.00203	79.64	0.6	4.54	0.69	5.23	297.29	0.00145	74.73	0.56	4.67	0.69	5.36	297.29	0.00072	77.15	0.58
4.74	0.69	5.43	286.15	-0.00173	71.39	0.6	4.80	0.69	5.48	286.15	0.00128	65.71	0.51	4.94	0.69	5.63	286.15	0.00058	65.43	0.51
4.94	0.69	5.63	326.42	-0.00217	81.76	0.6	4.95	0.69	5.64	326.42	0.00151	76.12	0.52	5.14	0.69	5.83	326.42	0.00076	79.23	0.54
4.63	0.69	5.32	350.40	-0.00250	93.85	0.6	4.63	0.69	5.32	350.40	0.00178	88.67	0.56	4.77	0.69	5.46	350.40	0.00088	93.01	0.59
4.71	0.69	5.40	363.25	-0.00264	100.48	0.6	4.73	0.69	5.41	363.25	0.00195	95.25	0.58	4.88	0.69	5.56	363.25	0.00101	100.86	0.62
4.65	0.69	5.33	380.39	-0.00275	108.08	0.6	4.68	0.69	5.37	380.39	0.00205	103.45	0.60	4.82	0.69	5.51	380.39	0.00093	105.52	0.62
4.41	0.69	5.10	439.50	-0.00326	128.05	0.6	4.38	0.69	5.07	439.50	0.00250	124.14	0.63	4.58	0.69	5.27	439.50	0.00131	131.05	0.66
4.49	0.69	5.18	447.21	-0.00327	131.38	0.7	4.51	0.69	5.20	447.21	0.00281	127.04	0.63	4.66	0.69	5.35	447.21	0.00120	132.37	0.66
4.64	0.69	5.32	428.37	-0.00308	122.44	0.6	4.65	0.69	5.33	428.37	0.00270	118.33	0.61	4.75	0.69	5.44	428.37	0.00114	123.77	0.64
4.76	0.69	5.45	451.50	-0.00368	132.13	0.6	4.78	0.69	5.47	451.50	0.00277	128.26	0.63	4.91	0.69	5.60	451.50	0.00123	133.75	0.66
4.73	0.69	5.42	478.06	-0.00386	136.99	0.6	4.75	0.69	5.44	478.06	0.00268	133.03	0.62	4.88	0.69	5.57	478.06	0.00132	139.48	0.65
4.56	0.69	5.25	494.33	-0.00398	144.88	0.6	4.56	0.69	5.25	494.33	0.00281	141.10	0.63	4.67	0.69	5.36	494.33	0.00133	147.40	0.66
4.48	0.69	5.17	486.62	-0.00384	142.97	0.7	4.49	0.69	5.18	486.62	0.00276	138.57	0.63	4.59	0.69	5.28	486.62	0.00138	146.06	0.67
4.49	0.69	5.17	487.48	-0.00380	142.94	0.7	4.49	0.69	5.18	487.48	0.00275	139.01	0.63	4.59	0.69	5.27	487.48	0.00134	145.72	0.66
4.60	0.69	5.28	460.92	-0.00353	138.50	0.7	4.63	0.69	5.31	460.92	0.00267	133.77	0.64	4.74	0.69	5.42	460.92	0.00119	138.83	0.67
4.68	0.69	5.37	447.21	-0.00328	127.65	0.6	4.71	0.69	5.39	447.21	0.00245	122.81	0.61	4.84	0.69	5.53	447.21	0.00118	128.70	0.64
4.73	0.69	5.42	417.23	-0.00319	119.96	0.6	4.75	0.69	5.44	417.23	0.00229	114.84	0.61	4.91	0.69	5.59	417.23	0.00120	122.62	0.65
4.57	0.69	5.26	415.52	-0.00304	119.28	0.6	4.58	0.69	5.27	415.52	0.00230	114.29	0.61	4.75	0.69	5.43	415.52	0.00109	119.87	0.64
4.52	0.69	5.20	426.65	-0.00310	120.46	0.6	4.48	0.69	5.16	426.65	0.00257	115.97	0.60	4.70	0.69	5.39	426.65	0.00113	121.39	0.63
4.66	0.69	5.35	436.93	-0.00333	123.74	0.6	4.68	0.69	5.36	436.93	0.00291	119.13	0.60	4.83	0.69	5.52	436.93	0.00109	123.84	0.63
4.68	0.69	5.36	427.51	-0.00335	123.15	0.6	4.70	0.69	5.39	427.51	0.00284	118.65	0.62	4.87	0.69	5.56	427.51	0.00118	125.25	0.65
4.79	0.69	5.47	477.20	-0.00379	139.54	0.6	4.82	0.69	5.51	477.20	0.00306	135.35	0.63	4.99	0.69	5.68	477.20	0.00133	142.77	0.66
4.58	0.69	5.27	470.35	-0.00387	134.14	0.6	4.61	0.69	5.30	470.35	0.00281	130.41	0.61	4.73	0.69	5.42	470.35	0.00126	137.20	0.65
4.53	0.69	5.22	481.48	-0.00418	139.62	0.6	4.51	0.69	5.20	481.48	0.00280	136.73	0.63	4.68	0.69	5.37	481.48	0.00135	144.38	0.66
4.60	0.69	5.29	448.93	-0.00355	130.37	0.6	4.63	0.69	5.32	448.93	0.00266	125.66	0.62	4.77	0.69	5.46	448.93	0.00120	132.09	0.65
4.50	0.69	5.19	441.22	-0.00340	127.75	0.6	4.53	0.69	5.22	441.22	0.00249	123.00	0.62	4.67	0.69	5.36	441.22	0.00112	128.37	0.65
4.50	0.69	5.18	441.22	-0.00339	130.48	0.7	4.54	0.69	5.23	441.22	0.00259	125.50	0.63	4.69	0.69	5.38	441.22	0.00133	134.14	0.67
4.63	0.69	5.32	427.51	-0.00321	126.07	0.7	4.69	0.69	5.38	427.51	0.00243	120.74	0.63	4.84	0.69	5.53	427.51	0.00121	128.11	0.66
4.60	0.69	5.29	511.47	-0.00381	157.45	0.7	4.66	0.69	5.35	511.47	0.00312	152.62	0.66	4.77	0.69	5.46	511.47	0.00141	159.74	0.69
4.40	0.69	5.09	557.73	-0.00373	171.32	0.7	4.42	0.69	5.10	557.73	0.00335	166.59	0.66	4.53	0.69	5.22	557.73	0.00156	174.50	0.69
4.28	0.69	4.97	551.74	-0.00331	171.32	0.7	4.30	0.69	4.99	551.74	0.00343	166.22	0.67	4.36	0.69	5.05	551.74	0.00159	175.06	0.70
4.64	0.69	5.32	678.53	-0.00408	214.93	0.7	4.68	0.69	5.37	678.53	0.00432	209.51	0.68	4.83	0.69	5.52	678.53	0.00210	220.73	0.72
4.58	0.69	5.26	622.84	-0.00350	193.15	0.7	4.61	0.69	5.30	622.84	0.00385	188.35	0.67	4.74	0.69	5.43	622.84	0.00173	196.99	0.70
4.47	0.69	5.15	705.95	-0.00392	223.06	0.7	4.51	0.69	5.19	705.95	0.00442	217.81	0.68	4.59	0.69	5.28	705.95	0.00200	227.67	0.72
4.61	0.69	5.30	615.13	-0.00387	187.47	0.7	4.65	0.69	5.34	615.13	0.00367	182.51	0.66	4.76	0.69	5.45	615.13	0.00173	192.07	0.69
4.66	0.69	5.35	472.92	-0.00295	137.05	0.6	4.69	0.69	5.38	472.92	0.00262	131.26	0.62	4.83	0.69	5.52	472.92	0.00124	138.51	0.65
4.68	0.69	5.37	420.66	-0.00296	122.51	0.6	4.71	0.69	5.39	420.66	0.00236	117.20	0.62	4.83	0.69	5.51	420.66	0.00109	123.81	0.65
4.46	0.69	5.15	391.53	-0.00286	109.94	0.6	4.46	0.69	5.15	391.53	0.00211	104.70	0.59	4.57	0.69	5.26	391.53	0.00103	111.89	0.63
4.47	0.69	5.15	424.08	-0.00347	121.85	0.6	4.47	0.69	5.16	424.08	0.00239	117.05	0.61	4.58	0.69	5.27	424.08	0.00109	123.62	0.65
4.36	0.69	5.05	423.23	-0.00349	119.71	0.6	4.36	0.69	5.05	423.23	0.00234	115.41	0.60	4.44	0.69	5.12	423.23	0.00111	123.05	0.64
4.77	0.69	5.46	514.90	-0.00469	147.00	0.6	4.80	0.69	5.49	514.90	0.00294	143.61	0.62	4.94	0.69	5.63	514.90	0.00138	152.80	0.66
4.56	0.69	5.24	503.76	-0.00503	151.34	0.7	4.57	0.69	5.25	503.76	0.00299	148.89	0.66	4.69	0.69	5.38	503.76	0.00161	160.44	0.71
4.79	0.69	5.48	496.05	-0.00467	140.38	0.6	4.81	0.69	5.50	496.05	0.00276	137.04	0.61	4.95	0.69	5.64	496.05	0.00149	147.06	0.66
4.90	0.68	5.58	450.64	-0.00472	124.34	0.6	4.91	0.69	5.60	450.64	0.00245	121.84	0.60	5.08	0.69	5.77	450.64	0.00126	124.47	0.61
4.77	0.68	5.46	455.78	-0.00504	124.27	0.6	4.77	0.69	5.46	455.78	0.00252	123.16	0.60	4.93	0.69	5.62	455.78	0.00145	131.25	0.64
4.60	0.68	5.28	437.79	-0.00510	121.57	0.6	4.59	0.69	5.27	437.79	0.00246	120.48	0.61	4.71	0.69	5.40	437.79	0.00134	128.95	0.65
4.67	0.68	5.36	447.21	-0.00571	121.72	0.6	4.66	0.69	5.35	447.21	0.00252	123.29	0.61	4.81	0.69	5.50	447.21	0.00122	125.95	0.62

4.93	0.68	5.61	445.50	-0.00574	115.23	0.6	4.93	0.69	5.62	445.50	0.00240	117.59	0.59	5.07	0.69	5.76	445.50	0.00117	121.86	0.61
4.77	0.68	5.46	437.79	-0.00541	119.83	0.6	4.76	0.69	5.44	437.79	0.00243	119.93	0.61	4.93	0.69	5.62	437.79	0.00147	126.25	0.64
4.68	0.68	5.36	462.64	-0.00531	126.37	0.6	4.66	0.69	5.35	462.64	0.00256	125.37	0.60	4.76	0.69	5.45	462.64	0.00132	133.14	0.64
4.76	0.69	5.44	491.76	-0.00519	145.39	0.7	4.74	0.69	5.43	491.76	0.00288	143.13	0.65	4.88	0.69	5.57	491.76	0.00153	149.68	0.67
4.78	0.69	5.46	615.13	-0.00537	183.89	0.7	4.75	0.69	5.44	615.13	0.00367	180.81	0.65	4.88	0.69	5.57	615.13	0.00224	190.66	0.69
4.88	0.69	5.57	552.59	-0.00441	162.24	0.7	4.87	0.69	5.55	552.59	0.00317	157.54	0.63	5.00	0.69	5.68	552.59	0.00182	169.85	0.68
4.92	0.69	5.61	510.61	-0.00416	151.19	0.7	4.90	0.69	5.58	510.61	0.00301	145.74	0.63	5.09	0.69	5.78	510.61	0.00148	151.84	0.66
4.80	0.69	5.48	478.91	-0.00411	140.86	0.7	4.76	0.69	5.45	478.91	0.00284	136.37	0.63	4.92	0.69	5.61	478.91	0.00150	143.77	0.67
4.52	0.69	5.21	459.21	-0.00440	134.10	0.6	4.47	0.69	5.16	459.21	0.00280	130.09	0.63	4.57	0.69	5.26	459.21	0.00133	137.09	0.66
4.70	0.69	5.38	434.36	-0.00418	120.59	0.6	4.66	0.69	5.35	434.36	0.00241	115.98	0.59	4.78	0.69	5.46	434.36	0.00144	125.11	0.64
4.59	0.69	5.27	431.79	-0.00464	127.96	0.7	4.54	0.69	5.23	431.79	0.00259	124.55	0.64	4.67	0.69	5.35	431.79	0.00149	134.01	0.69
4.92	0.68	5.60	484.91	-0.00540	135.45	0.6	4.90	0.69	5.58	484.91	0.00276	133.56	0.61	5.06	0.69	5.75	484.91	0.00137	143.04	0.65
4.92	0.69	5.61	491.76	-0.00495	136.40	0.6	4.89	0.69	5.58	491.76	0.00270	133.23	0.60	5.03	0.69	5.72	491.76	0.00153	144.96	0.65
4.94	0.69	5.63	519.18	-0.00534	145.11	0.6	4.92	0.69	5.60	519.18	0.00299	142.43	0.61	5.04	0.69	5.73	519.18	0.00163	151.19	0.65
4.99	0.69	5.68	585.15	-0.00507	171.76	0.7	4.95	0.69	5.64	585.15	0.00351	167.03	0.63	5.13	0.69	5.82	585.15	0.00192	177.69	0.67
5.05	0.69	5.74	530.32	-0.00433	152.15	0.6	5.02	0.69	5.71	530.32	0.00306	147.02	0.61	5.17	0.69	5.86	530.32	0.00157	156.07	0.65
4.83	0.69	5.51	525.18	-0.00435	154.48	0.7	4.79	0.69	5.48	525.18	0.00305	149.35	0.63	4.90	0.69	5.59	525.18	0.00189	161.24	0.68
4.84	0.69	5.52	533.74	-0.00420	157.91	0.7	4.79	0.69	5.48	533.74	0.00316	151.79	0.63	4.93	0.69	5.62	533.74	0.00202	162.86	0.68
4.81	0.69	5.49	634.84	-0.00535	190.18	0.7	4.75	0.69	5.44	634.84	0.00394	186.08	0.65	4.90	0.69	5.59	634.84	0.00238	197.08	0.69
4.83	0.69	5.52	634.84	-0.00581	189.41	0.7	4.79	0.69	5.47	634.84	0.00395	186.54	0.65	4.90	0.69	5.59	634.84	0.00245	197.64	0.69
4.81	0.69	5.50	709.37	-0.00732	214.02	0.7	4.76	0.69	5.45	709.37	0.00451	214.63	0.67	4.91	0.69	5.60	709.37	0.00295	226.48	0.71
4.84	0.69	5.52	638.27	-0.00671	187.94	0.7	4.81	0.69	5.49	638.27	0.00400	187.22	0.65	4.94	0.69	5.62	638.27	0.00243	200.72	0.70
4.70	0.69	5.38	586.01	-0.00617	172.69	0.7	4.65	0.69	5.34	586.01	0.00366	171.18	0.65	4.76	0.69	5.45	586.01	0.00200	182.96	0.69
4.79	0.69	5.47	561.16	-0.00580	162.29	0.6	4.74	0.69	5.42	561.16	0.00337	160.47	0.63	4.88	0.69	5.56	561.16	0.00174	171.60	0.68
5.05	0.69	5.74	562.02	-0.00534	163.00	0.6	5.01	0.69	5.70	562.02	0.00344	159.35	0.63	5.16	0.69	5.85	562.02	0.00176	170.34	0.67
5.01	0.69	5.70	632.27	-0.00546	189.32	0.7	4.98	0.69	5.67	632.27	0.00391	184.69	0.65	5.13	0.69	5.82	632.27	0.00202	196.29	0.69
4.80	0.69	5.49	569.73	-0.00453	168.56	0.7	4.74	0.69	5.43	569.73	0.00347	162.56	0.63	4.86	0.69	5.55	569.73	0.00183	174.94	0.68
4.91	0.69	5.60	538.03	-0.00410	157.47	0.6	4.87	0.69	5.55	538.03	0.00319	150.65	0.62	5.02	0.69	5.70	538.03	0.00170	164.55	0.68
4.94	0.69	5.62	481.48	-0.00346	135.92	0.6	4.89	0.69	5.58	481.48	0.00275	128.74	0.59	5.02	0.69	5.70	481.48	0.00161	142.60	0.66
5.07	0.69	5.76	573.15	-0.00444	170.56	0.7	4.93	0.69	5.61	573.15	0.00351	164.44	0.64	5.17	0.69	5.86	573.15	0.00193	178.20	0.69
4.97	0.69	5.66	606.57	-0.00480	182.70	0.7	4.82	0.69	5.50	606.57	0.00414	176.41	0.64	5.09	0.69	5.78	606.57	0.00240	190.82	0.70
4.89	0.69	5.57	571.44	-0.00463	172.17	0.7	4.77	0.69	5.46	571.44	0.00435	165.34	0.64	4.99	0.69	5.68	571.44	0.00194	180.04	0.70
4.90	0.69	5.59	526.03	-0.00428	148.49	0.6	4.78	0.69	5.47	526.03	0.00376	143.00	0.60	4.97	0.69	5.66	526.03	0.00152	155.07	0.65
4.81	0.69	5.49	571.44	-0.00519	166.93	0.6	4.71	0.69	5.40	571.44	0.00435	161.69	0.63	4.86	0.69	5.55	571.44	0.00176	176.83	0.69
4.79	0.69	5.47	603.14	-0.00578	176.40	0.6	4.60	0.69	5.29	603.14	0.00465	173.03	0.64	4.86	0.69	5.55	603.14	0.00203	190.03	0.70
4.85	0.69	5.54	606.57	-0.00585	178.55	0.7	4.76	0.69	5.45	606.57	0.00483	173.63	0.63	4.95	0.69	5.64	606.57	0.00188	190.87	0.70
4.78	0.69	5.47	455.78	-0.00417	125.53	0.6	4.73	0.69	5.41	455.78	0.00348	119.29	0.58	4.83	0.69	5.52	455.78	0.00147	136.02	0.66
4.79	0.69	5.47	613.42	-0.00634	180.18	0.7	4.73	0.69	5.42	613.42	0.00492	176.73	0.64	4.84	0.69	5.53	613.42	0.00201	195.76	0.71
4.84	0.69	5.53	516.61	-0.00533	146.93	0.6	4.79	0.69	5.47	516.61	0.00360	143.08	0.61	4.93	0.69	5.62	516.61	0.00172	160.35	0.69
4.90	0.69	5.58	568.87	-0.00601	163.33	0.6	4.89	0.69	5.57	568.87	0.00386	159.87	0.62	5.00	0.69	5.69	568.87	0.00174	176.95	0.69
4.86	0.69	5.54	547.45	-0.00574	155.99	0.6	4.81	0.69	5.50	547.45	0.00362	152.58	0.62	4.96	0.69	5.65	547.45	0.00168	168.97	0.68
4.88	0.68	5.56	704.23	-0.00801	207.42	0.7	4.88	0.69	5.57	704.23	0.00485	208.76	0.66	4.96	0.69	5.65	704.23	0.00237	228.41	0.72
4.83	0.68	5.52	623.70	-0.00697	183.40	0.7	4.81	0.69	5.50	623.70	0.00405	182.63	0.65	4.90	0.69	5.58	623.70	0.00229	202.61	0.72
4.87	0.69	5.55	738.50	-0.00753	223.34	0.7	4.74	0.69	5.43	738.50	0.00512	222.36	0.67	4.95	0.69	5.64	738.50	0.00234	240.72	0.72
4.69	0.69	5.37	685.39	-0.00648	205.84	0.7	4.52	0.69	5.21	685.39	0.00510	202.59	0.66	4.77	0.69	5.45	685.39	0.00216	219.93	0.71
4.78	0.69	5.47	710.23	-0.00644	215.36	0.7	4.71	0.69	5.40	710.23	0.00615	208.28	0.65	4.85	0.69	5.54	710.23	0.00238	230.81	0.72
4.86	0.69	5.55	715.37	-0.00642	214.53	0.7	4.82	0.69	5.50	715.37	0.00643	206.99	0.64	4.93	0.69	5.62	715.37	0.00238	230.99	0.72
4.78	0.69	5.47	719.66	-0.00745	217.81	0.7	4.75	0.69	5.44	719.66	0.00589	214.31	0.66	4.83	0.69	5.52	719.66	0.00241	237.09	0.73
4.87	0.68	5.55	723.94	-0.00820	212.38	0.7	4.86	0.69	5.55	723.94	0.00507	213.89	0.66	4.96	0.69	5.65	723.94	0.00245	234.49	0.72
4.78	0.68	5.46	721.37	-0.00865	213.15	0.7	4.77	0.69	5.45	721.37	0.00501	215.79	0.66	4.90	0.69	5.59	721.37	0.00252	236.61	0.73
4.85	0.68	5.53	728.22	-0.00932	214.25	0.7	4.84	0.69	5.53	728.22	0.00510	219.36	0.67	4.95	0.69	5.64	728.22	0.00249	240.63	0.73
4.82	0.68	5.51	675.96	-0.00843	200.70	0.7	4.81	0.69	5.50	675.96	0.00481	202.84	0.67	4.95	0.69	5.64	675.96	0.00239	223.76	0.73
4.68	0.68	5.36	650.26	-0.00780	188.98	0.6	4.66	0.69	5.35	650.26	0.00443	190.55	0.65	4.73	0.69	5.42	650.26	0.00213	209.58	0.71

5.10	0.68	5.79	586.86	-0.00695	162.53	0.6	5.11	0.69	5.79	586.86	0.00361	162.97	0.62	5.24	0.69	5.93	586.86	0.00186	182.11	0.69
4.92	0.69	5.61	660.54	-0.00703	196.80	0.7	4.92	0.69	5.61	660.54	0.00439	194.29	0.65	5.06	0.69	5.75	660.54	0.00221	214.49	0.72
4.75	0.69	5.43	538.88	-0.00487	160.82	0.7	4.72	0.69	5.40	538.88	0.00348	154.32	0.63	4.85	0.69	5.54	538.88	0.00164	170.67	0.70
5.01	0.69	5.70	392.38	-0.00301	105.67	0.6	5.00	0.69	5.69	392.38	0.00223	96.96	0.55	5.18	0.69	5.86	392.38	0.00109	111.27	0.63
4.78	0.69	5.47	448.07	-0.00375	122.10	0.6	4.70	0.69	5.39	448.07	0.00270	114.99	0.57	4.85	0.69	5.54	448.07	0.00131	130.48	0.65
4.74	0.69	5.42	525.18	-0.00454	151.84	0.6	4.67	0.69	5.35	525.18	0.00357	144.82	0.61	4.82	0.69	5.50	525.18	0.00175	163.34	0.69
4.70	0.69	5.38	299.86	-0.00221	77.59	0.6	4.60	0.69	5.29	299.86	0.00181	68.91	0.51	4.79	0.69	5.48	299.86	0.00076	80.03	0.59
4.67	0.69	5.36	269.01	-0.00189	63.30	0.5	4.63	0.69	5.31	269.01	0.00145	54.41	0.45	4.73	0.69	5.42	269.01	0.00058	63.37	0.52
4.50	0.69	5.18	323.84	-0.00264	81.77	0.6	4.44	0.69	5.13	323.84	0.00188	73.75	0.50	4.52	0.69	5.20	323.84	0.00092	87.71	0.60
4.50	0.69	5.19	427.51	-0.00403	117.98	0.6	4.34	0.69	5.03	427.51	0.00285	112.08	0.58	4.54	0.69	5.23	427.51	0.00129	126.73	0.66
4.48	0.69	5.17	444.64	-0.00403	126.16	0.6	4.31	0.69	4.99	444.64	0.00353	119.43	0.60	4.53	0.69	5.22	444.64	0.00140	135.33	0.67
4.53	0.69	5.22	472.06	-0.00427	132.07	0.6	4.34	0.69	5.03	472.06	0.00433	124.77	0.59	4.58	0.69	5.27	472.06	0.00144	141.71	0.67
4.47	0.69	5.16	514.04	-0.00511	147.24	0.6	4.42	0.68	5.11	514.04	0.00586	137.04	0.59	4.50	0.69	5.19	514.04	0.00168	160.17	0.69
4.48	0.69	5.16	477.20	-0.00492	133.64	0.6	4.44	0.68	5.13	477.20	0.00606	121.66	0.57	4.54	0.69	5.22	477.20	0.00160	146.76	0.68
4.49	0.68	5.17	490.91	-0.00553	138.72	0.6	4.47	0.68	5.15	490.91	0.00551	131.17	0.59	4.52	0.69	5.20	490.91	0.00160	153.07	0.69
4.82	0.68	5.50	512.33	-0.00621	140.07	0.6	4.79	0.69	5.47	512.33	0.00323	139.23	0.60	4.92	0.69	5.61	512.33	0.00166	157.07	0.68
4.93	0.68	5.61	473.77	-0.00663	121.83	0.6	4.92	0.69	5.61	473.77	0.00280	124.20	0.58	5.05	0.69	5.74	473.77	0.00159	143.70	0.67
4.50	0.68	5.19	522.61	-0.00729	146.14	0.6	4.48	0.69	5.17	522.61	0.00353	148.84	0.63	4.56	0.69	5.24	522.61	0.00171	166.16	0.70
4.36	0.68	5.04	504.62	-0.00633	142.79	0.6	4.34	0.69	5.02	504.62	0.00349	141.30	0.62	4.41	0.69	5.10	504.62	0.00165	158.90	0.70
4.47	0.68	5.16	549.17	-0.00633	161.35	0.7	4.44	0.69	5.13	549.17	0.00388	158.83	0.64	4.52	0.69	5.21	549.17	0.00183	177.05	0.71
4.82	0.68	5.51	560.30	-0.00623	158.74	0.6	4.79	0.69	5.47	560.30	0.00381	156.15	0.62	4.92	0.69	5.61	560.30	0.00196	176.48	0.70
4.82	0.69	5.50	560.30	-0.00568	161.41	0.6	4.78	0.69	5.47	560.30	0.00379	156.76	0.62	4.94	0.69	5.62	560.30	0.00181	175.06	0.69
4.85	0.69	5.53	535.46	-0.00545	150.28	0.6	4.81	0.69	5.50	535.46	0.00359	145.51	0.60	4.94	0.69	5.62	535.46	0.00174	164.92	0.68
4.75	0.69	5.43	528.60	-0.00518	151.61	0.6	4.71	0.69	5.39	528.60	0.00353	146.13	0.61	4.85	0.69	5.54	528.60	0.00173	164.78	0.69
4.68	0.69	5.36	523.46	-0.00487	150.55	0.6	4.60	0.69	5.28	523.46	0.00350	144.67	0.61	4.71	0.69	5.40	523.46	0.00167	162.86	0.69
4.66	0.69	5.34	608.28	-0.00579	181.43	0.7	4.58	0.69	5.26	608.28	0.00448	175.93	0.64	4.72	0.69	5.41	608.28	0.00205	195.88	0.71
4.92	0.69	5.61	556.02	-0.00478	159.74	0.6	4.86	0.69	5.55	556.02	0.00413	151.93	0.61	5.03	0.69	5.71	556.02	0.00170	170.94	0.68
4.82	0.69	5.50	751.35	-0.00766	227.34	0.7	4.76	0.69	5.44	751.35	0.00590	224.45	0.66	4.87	0.69	5.56	751.35	0.00269	248.29	0.73
4.87	0.69	5.55	705.09	-0.00758	209.16	0.7	4.78	0.69	5.46	705.09	0.00545	207.21	0.65	4.96	0.69	5.65	705.09	0.00244	229.85	0.72
5.06	0.69	5.74	610.85	-0.00602	176.08	0.6	5.01	0.69	5.69	610.85	0.00443	170.24	0.62	5.18	0.69	5.87	610.85	0.00212	193.00	0.70
4.91	0.69	5.59	566.30	-0.00557	162.96	0.6	4.85	0.69	5.54	566.30	0.00413	156.90	0.61	5.05	0.69	5.73	566.30	0.00196	178.17	0.70
4.89	0.69	5.58	514.90	-0.00501	142.42	0.6	4.85	0.69	5.54	514.90	0.00351	136.24	0.59	5.00	0.69	5.69	514.90	0.00161	155.47	0.67
4.91	0.69	5.60	574.01	-0.00610	163.06	0.6	4.87	0.69	5.56	574.01	0.00393	159.35	0.62	5.04	0.69	5.73	574.01	0.00188	179.49	0.69
4.80	0.68	5.48	569.73	-0.00684	162.94	0.6	4.76	0.69	5.44	569.73	0.00407	161.52	0.63	4.89	0.69	5.58	569.73	0.00191	182.32	0.71
4.95	0.68	5.63	530.32	-0.00639	146.90	0.6	4.90	0.69	5.58	530.32	0.00366	145.40	0.61	5.07	0.69	5.76	530.32	0.00175	165.34	0.69
4.84	0.68	5.53	584.29	-0.00699	166.43	0.6	4.80	0.69	5.49	584.29	0.00412	165.16	0.63	4.97	0.69	5.66	584.29	0.00189	185.31	0.70
4.90	0.68	5.59	517.47	-0.00583	141.36	0.6	4.86	0.69	5.55	517.47	0.00343	137.79	0.59	5.02	0.69	5.71	517.47	0.00154	156.10	0.67
4.85	0.68	5.53	542.31	-0.00635	151.22	0.6	4.79	0.69	5.47	542.31	0.00375	148.84	0.61	4.93	0.69	5.62	542.31	0.00172	168.58	0.69
5.00	0.68	5.69	539.74	-0.00585	151.67	0.6	4.95	0.69	5.64	539.74	0.00370	147.08	0.60	5.14	0.69	5.83	539.74	0.00162	166.06	0.68
4.81	0.69	5.49	535.46	-0.00542	151.72	0.6	4.75	0.69	5.44	535.46	0.00365	146.40	0.61	4.90	0.69	5.58	535.46	0.00171	165.81	0.69
4.98	0.69	5.67	553.45	-0.00511	160.11	0.6	4.93	0.69	5.62	553.45	0.00386	153.17	0.61	5.12	0.69	5.80	553.45	0.00171	172.82	0.69
4.91	0.69	5.59	574.01	-0.00519	171.30	0.7	4.87	0.69	5.55	574.01	0.00402	164.73	0.64	5.03	0.69	5.72	574.01	0.00180	183.95	0.71
4.86	0.69	5.55	597.14	-0.00564	174.39	0.6	4.81	0.69	5.50	597.14	0.00421	169.08	0.63	4.94	0.69	5.63	597.14	0.00188	188.52	0.70
4.83	0.68	5.51	606.57	-0.00679	175.92	0.6	4.77	0.69	5.46	606.57	0.00426	174.33	0.64	4.92	0.69	5.61	606.57	0.00194	193.27	0.71
5.00	0.68	5.69	512.33	-0.00581	140.82	0.6	4.97	0.69	5.66	512.33	0.00331	137.13	0.59	5.16	0.69	5.85	512.33	0.00159	156.57	0.68
4.96	0.68	5.64	635.70	-0.00838	178.70	0.6	4.92	0.69	5.60	635.70	0.00441	182.63	0.64	5.07	0.69	5.76	635.70	0.00202	203.90	0.71
5.06	0.68	5.75	553.45	-0.00783	147.25	0.6	5.04	0.69	5.73	553.45	0.00363	151.86	0.61	5.20	0.69	5.89	553.45	0.00173	171.94	0.69
4.99	0.68	5.67	464.35	-0.00682	113.95	0.5	4.86	0.69	5.55	464.35	0.00292	118.39	0.57	5.08	0.69	5.77	464.35	0.00140	136.34	0.65
4.92	0.68	5.60	431.79	-0.00547	114.20	0.6	4.72	0.69	5.41	431.79	0.00298	111.94	0.57	5.00	0.69	5.69	431.79	0.00132	129.28	0.66
4.95	0.69	5.63	435.22	-0.00439	119.17	0.6	4.74	0.69	5.42	435.22	0.00348	112.11	0.57	5.04	0.69	5.73	435.22	0.00130	129.62	0.66
5.12	0.69	5.81	478.06	-0.00398	134.71	0.6	5.03	0.69	5.71	478.06	0.00430	124.04	0.58	5.27	0.69	5.96	478.06	0.00151	145.85	0.68
5.01	0.69	5.69	459.21	-0.00372	124.41	0.6	4.86	0.69	5.54	459.21	0.00416	114.84	0.55	5.07	0.69	5.76	459.21	0.00149	136.59	0.66
4.82	0.69	5.51	509.76	-0.00401	145.65	0.6	4.70	0.69	5.39	509.76	0.00462	135.27	0.59	4.91	0.69	5.60	509.76	0.00163	156.63	0.68

4.81	0.69	5.49	431.79	-0.00314	119.40	0.6	4.75	0.69	5.44	431.79	0.00342	110.00	0.56	4.90	0.69	5.59	431.79	0.00144	130.42	0.67
4.77	0.69	5.45	379.53	-0.00253	97.40	0.6	4.67	0.69	5.36	379.53	0.00263	88.94	0.52	4.83	0.69	5.52	379.53	0.00112	106.23	0.62
4.76	0.69	5.45	364.97	-0.00254	94.41	0.6	4.63	0.69	5.32	364.97	0.00257	85.83	0.52	4.84	0.69	5.53	364.97	0.00109	102.72	0.62
4.67	0.69	5.35	362.40	-0.00271	92.74	0.6	4.53	0.69	5.22	362.40	0.00272	84.09	0.51	4.76	0.69	5.45	362.40	0.00109	101.13	0.62
4.84	0.69	5.52	361.54	-0.00313	92.80	0.6	4.79	0.69	5.48	361.54	0.00310	84.25	0.52	4.96	0.69	5.65	361.54	0.00114	102.71	0.63
4.89	0.69	5.58	357.26	-0.00328	93.31	0.6	4.83	0.69	5.52	357.26	0.00307	84.79	0.53	5.02	0.69	5.71	357.26	0.00114	103.95	0.65
4.77	0.69	5.46	351.26	-0.00319	86.79	0.5	4.77	0.69	5.45	351.26	0.00265	78.50	0.50	4.88	0.69	5.57	351.26	0.00106	97.15	0.61
4.72	0.69	5.40	347.83	-0.00308	87.60	0.6	4.71	0.69	5.39	347.83	0.00227	78.89	0.50	4.84	0.69	5.53	347.83	0.00106	96.78	0.62
4.87	0.69	5.56	343.55	-0.00301	82.90	0.5	4.83	0.69	5.51	343.55	0.00211	75.01	0.48	5.00	0.69	5.69	343.55	0.00103	92.64	0.60
4.90	0.69	5.58	334.13	-0.00272	79.56	0.5	4.78	0.69	5.47	334.13	0.00209	71.53	0.47	5.03	0.69	5.72	334.13	0.00099	88.65	0.59
4.79	0.69	5.48	320.42	-0.00289	79.71	0.6	4.72	0.69	5.41	320.42	0.00236	71.07	0.49	4.93	0.69	5.62	320.42	0.00101	89.09	0.62
4.70	0.69	5.39	317.85	-0.00279	76.90	0.5	4.63	0.69	5.32	317.85	0.00248	68.37	0.48	4.80	0.69	5.49	317.85	0.00097	86.54	0.60
4.69	0.69	5.37	313.56	-0.00266	75.69	0.5	4.54	0.69	5.22	313.56	0.00248	67.48	0.48	4.78	0.69	5.47	313.56	0.00097	84.84	0.60
4.91	0.69	5.59	316.13	-0.00284	74.86	0.5	4.69	0.68	5.37	316.13	0.00301	66.77	0.47	5.04	0.69	5.73	316.13	0.00098	84.90	0.60
4.81	0.68	5.49	320.42	-0.00308	74.61	0.5	4.57	0.68	5.25	320.42	0.00433	63.35	0.44	4.92	0.69	5.60	320.42	0.00102	86.09	0.60
4.51	0.68	5.20	307.57	-0.00323	74.19	0.5	4.32	0.68	5.00	307.57	0.00542	58.87	0.42	4.60	0.69	5.29	307.57	0.00104	85.89	0.62
4.42	0.68	5.11	304.14	-0.00314	73.51	0.5	4.30	0.67	4.98	304.14	0.00574	57.56	0.42	4.51	0.69	5.20	304.14	0.00103	85.17	0.62
4.49	0.68	5.17	305.85	-0.00330	71.64	0.5	4.40	0.66	5.07	305.85	0.00667	47.37	0.34	4.59	0.69	5.28	305.85	0.00103	84.19	0.61
4.46	0.68	5.14	305.85	-0.00354	69.50	0.5	4.33	0.64	4.97	305.85	0.00759	31.74	0.23	4.54	0.69	5.22	305.85	0.00106	83.54	0.61
4.45	0.68	5.13	310.14	-0.00371	72.94	0.5	4.31	0.53	4.84	310.14	0.00752	12.57	0.09	4.54	0.69	5.23	310.14	0.00113	87.25	0.62
4.41	0.68	5.09	329.84	-0.00417	78.36	0.5	4.22	0.61	4.83	329.84	0.00885	25.89	0.17	4.50	0.69	5.19	329.84	0.00122	94.36	0.63
4.53	0.68	5.21	333.27	-0.00417	76.63	0.5	4.31	0.64	4.95	333.27	0.00850	35.54	0.24	4.63	0.69	5.32	333.27	0.00127	93.91	0.62
4.67	0.68	5.36	317.85	-0.00402	73.96	0.5	4.36	0.64	5.00	317.85	0.00818	34.19	0.24	4.80	0.69	5.48	317.85	0.00125	91.22	0.64
4.77	0.68	5.45	317.85	-0.00403	69.06	0.5	4.40	0.63	5.03	317.85	0.00787	29.59	0.21	4.90	0.69	5.59	317.85	0.00124	87.23	0.61
4.62	0.68	5.30	314.42	-0.00442	68.27	0.5	4.28	0.65	4.93	314.42	0.00782	35.96	0.25	4.74	0.69	5.43	314.42	0.00129	88.12	0.62
4.67	0.68	5.35	301.57	-0.00436	63.70	0.5	4.20	0.65	4.86	301.57	0.00728	39.56	0.29	4.79	0.69	5.48	301.57	0.00125	84.59	0.62
4.53	0.68	5.21	288.72	-0.00431	59.40	0.5	4.17	0.65	4.82	288.72	0.00697	34.93	0.27	4.64	0.69	5.33	288.72	0.00123	80.20	0.62
4.39	0.68	5.07	280.15	-0.00447	56.02	0.4	4.11	0.65	4.76	280.15	0.00686	31.55	0.25	4.50	0.69	5.19	280.15	0.00123	77.93	0.62
4.41	0.68	5.09	281.86	-0.00450	56.39	0.4	4.19	0.65	4.85	281.86	0.00658	35.76	0.28	4.51	0.69	5.20	281.86	0.00127	78.79	0.62
4.41	0.67	5.08	278.44	-0.00502	50.37	0.4	4.18	0.66	4.84	278.44	0.00618	38.72	0.31	4.50	0.69	5.19	278.44	0.00128	77.48	0.62
4.38	0.67	5.05	290.43	-0.00532	55.60	0.4	4.13	0.66	4.80	290.43	0.00646	45.93	0.35	4.48	0.69	5.17	290.43	0.00141	83.59	0.64
4.21	0.67	4.88	290.43	-0.00576	52.93	0.4	4.06	0.67	4.73	290.43	0.00629	47.31	0.36	4.30	0.69	4.98	290.43	0.00147	83.49	0.64
4.25	0.67	4.92	308.42	-0.00578	60.39	0.4	4.05	0.67	4.72	308.42	0.00639	56.06	0.40	4.34	0.69	5.02	308.42	0.00161	89.98	0.65
4.41	0.67	5.08	296.43	-0.00597	49.88	0.4	4.25	0.67	4.93	296.43	0.00547	54.86	0.41	4.50	0.69	5.19	296.43	0.00157	84.76	0.63
4.46	0.67	5.13	363.25	-0.00803	63.72	0.4	4.24	0.67	4.91	363.25	0.00718	74.98	0.46	4.55	0.69	5.23	363.25	0.00207	109.93	0.67
4.50	0.66	5.16	295.57	-0.00660	41.39	0.3	4.34	0.68	5.02	295.57	0.00523	56.80	0.43	4.61	0.69	5.30	295.57	0.00166	84.80	0.64
4.54	0.65	5.19	272.44	-0.00623	31.22	0.3	4.37	0.68	5.04	272.44	0.00461	52.03	0.42	4.65	0.69	5.33	272.44	0.00158	77.74	0.63
4.42	0.66	5.07	264.73	-0.00585	34.25	0.3	4.30	0.68	4.98	264.73	0.00413	51.76	0.43	4.52	0.69	5.21	264.73	0.00153	74.15	0.62
4.41	0.66	5.07	257.02	-0.00534	35.73	0.3	4.32	0.68	5.00	257.02	0.00378	50.54	0.44	4.50	0.69	5.19	257.02	0.00147	71.08	0.61
4.21	0.66	4.87	253.59	-0.00555	34.78	0.3	4.08	0.68	4.76	253.59	0.00376	51.82	0.45	4.30	0.69	4.99	253.59	0.00150	71.03	0.62
4.10	0.65	4.75	251.02	-0.00595	29.84	0.3	4.04	0.68	4.72	251.02	0.00373	51.51	0.45	4.17	0.69	4.86	251.02	0.00154	70.89	0.63
3.96	0.65	4.60	249.31	-0.00613	30.76	0.3	3.89	0.68	4.57	249.31	0.00369	54.04	0.48	4.02	0.69	4.71	249.31	0.00159	71.97	0.64
4.32	0.65	4.97	250.17	-0.00585	29.32	0.3	4.14	0.68	4.82	250.17	0.00346	55.01	0.49	4.43	0.69	5.12	250.17	0.00161	71.80	0.64
4.31	0.62	4.93	252.74	-0.00622	20.79	0.2	4.32	0.68	5.00	252.74	0.00346	55.01	0.48	4.44	0.69	5.13	252.74	0.00165	72.90	0.64
4.21	0.61	4.82	274.15	-0.00702	20.52	0.2	4.27	0.68	4.95	274.15	0.00388	61.56	0.50	4.35	0.69	5.04	274.15	0.00175	80.33	0.65
4.22	0.47	4.69	263.02	-0.00579	7.26	0.1	4.29	0.68	4.97	263.02	0.00378	56.92	0.48	4.37	0.69	5.06	263.02	0.00163	75.65	0.64
4.40	0.47	4.87	260.45	-0.00563	7.06	0.1	4.49	0.68	5.16	260.45	0.00417	54.03	0.46	4.58	0.69	5.27	260.45	0.00163	75.81	0.65
4.37	0.47	4.84	255.31	-0.00560	7.02	0.1	4.46	0.68	5.14	255.31	0.00450	50.75	0.44	4.53	0.69	5.22	255.31	0.00157	75.00	0.65
4.39	0.56	4.95	252.74	-0.00607	12.68	0.1	4.50	0.67	5.17	252.74	0.00476	45.77	0.40	4.56	0.69	5.25	252.74	0.00150	73.22	0.64
4.47	0.59	5.06	244.17	-0.00566	14.20	0.1	4.59	0.67	5.25	244.17	0.00485	36.50	0.33	4.62	0.69	5.31	244.17	0.00141	68.15	0.62
4.58	0.59	5.17	237.31	-0.00532	13.34	0.1	4.70	0.66	5.36	237.31	0.00487	30.54	0.29	4.76	0.69	5.45	237.31	0.00134	65.32	0.61
4.62	0.63	5.25	233.03	-0.00515	19.38	0.2	4.75	0.66	5.41	233.03	0.00471	27.53	0.26	4.81	0.69	5.50	233.03	0.00128	62.77	0.60
4.60	0.65	5.25	228.75	-0.00510	25.57	0.2	4.73	0.64	5.37	228.75	0.00507	21.20	0.21	4.78	0.69	5.46	228.75	0.00128	64.15	0.62

4.55	0.65	5.19	227.03	-0.00492	24.67	0.2	4.68	0.62	5.30	227.03	0.00492	16.45	0.16	4.70	0.69	5.39	227.03	0.00126	61.99	0.61
4.51	0.66	5.17	228.75	-0.00488	32.65	0.3	4.65	0.59	5.24	228.75	0.00516	12.94	0.13	4.68	0.69	5.37	228.75	0.00131	65.73	0.64
4.52	0.67	5.19	221.89	-0.00425	31.95	0.3	4.67	0.53	5.20	221.89	0.00437	7.30	0.07	4.69	0.69	5.38	221.89	0.00119	60.17	0.60
4.49	0.67	5.15	214.18	-0.00414	31.16	0.3	4.62	0.38	5.00	214.18	0.00357	2.99	0.03	4.64	0.69	5.33	214.18	0.00116	59.08	0.61
4.55	0.67	5.21	204.76	-0.00373	29.64	0.3	4.69	0.22	4.91	204.76	0.00260	1.09	0.01	4.70	0.69	5.39	204.76	0.00108	55.17	0.60
4.51	0.67	5.18	198.76	-0.00372	31.11	0.3	4.67	0.22	4.89	198.76	-0.00264	1.10	0.01	4.68	0.69	5.37	198.76	0.00108	55.86	0.62
4.43	0.67	5.10	195.34	-0.00347	30.48	0.3	4.57	0.48	5.05	195.34	-0.00353	4.43	0.05	4.58	0.69	5.27	195.34	0.00102	53.46	0.61
4.49	0.67	5.16	192.76	-0.00341	29.90	0.3	4.64	0.66	5.29	192.76	-0.00364	21.32	0.25	4.63	0.69	5.32	192.76	0.00101	52.29	0.60
4.59	0.67	5.27	191.91	-0.00288	28.87	0.3	4.65	0.62	5.27	191.91	-0.00356	11.90	0.14	4.73	0.69	5.42	191.91	0.00092	48.69	0.56
4.40	0.67	5.07	190.19	-0.00312	28.71	0.3	4.54	0.65	5.18	190.19	-0.00350	16.07	0.19	4.52	0.69	5.21	190.19	0.00094	49.33	0.58
4.24	0.67	4.91	189.34	-0.00321	29.51	0.3	4.30	0.65	4.95	189.34	-0.00360	18.03	0.21	4.31	0.69	5.00	189.34	0.00096	50.05	0.59
4.47	0.67	5.14	188.48	-0.00306	26.89	0.3	4.62	0.66	5.27	188.48	-0.00305	17.83	0.21	4.59	0.69	5.28	188.48	0.00093	47.85	0.56
4.63	0.67	5.30	187.62	-0.00293	29.35	0.3	4.79	0.66	5.45	187.62	-0.00309	18.10	0.21	4.82	0.69	5.51	187.62	0.00093	49.23	0.58
4.57	0.67	5.24	185.05	-0.00274	24.07	0.3	4.73	0.65	5.38	185.05	-0.00268	14.55	0.17	4.72	0.69	5.41	185.05	0.00085	43.89	0.53
4.61	0.67	5.28	184.20	-0.00284	22.54	0.3	4.77	0.66	5.43	184.20	-0.00259	15.15	0.18	4.77	0.69	5.46	184.20	0.00084	43.31	0.52
4.48	0.67	5.15	183.34	-0.00294	24.54	0.3	4.63	0.67	5.30	183.34	-0.00254	19.09	0.23	4.61	0.69	5.30	183.34	0.00087	44.98	0.54
4.50	0.68	5.18	181.63	-0.00253	27.51	0.3	4.65	0.66	5.31	181.63	-0.00273	17.13	0.21	4.64	0.69	5.33	181.63	0.00082	44.93	0.55
4.54	0.68	5.21	179.91	-0.00248	27.93	0.3	4.69	0.67	5.36	179.91	-0.00257	18.24	0.22	4.68	0.69	5.37	179.91	0.00084	44.70	0.55
4.57	0.68	5.25	177.34	-0.00243	28.40	0.4	4.71	0.67	5.38	177.34	-0.00242	20.20	0.25	4.71	0.69	5.40	177.34	0.00084	44.80	0.56
4.56	0.68	5.23	175.63	-0.00235	29.51	0.4	4.71	0.67	5.38	175.63	-0.00249	19.77	0.25	4.73	0.69	5.42	175.63	0.00082	45.31	0.57
4.49	0.68	5.16	175.63	-0.00216	25.32	0.3	4.64	0.67	5.30	175.63	-0.00229	16.27	0.21	4.63	0.69	5.31	175.63	0.00076	40.99	0.52
4.50	0.68	5.18	174.77	-0.00224	27.15	0.3	4.65	0.67	5.31	174.77	-0.00244	17.34	0.22	4.64	0.69	5.33	174.77	0.00079	43.09	0.55
4.40	0.68	5.08	173.92	-0.00236	26.58	0.3	4.54	0.67	5.21	173.92	-0.00235	18.63	0.24	4.52	0.69	5.21	173.92	0.00080	43.02	0.55
4.32	0.68	5.00	173.06	-0.00225	26.29	0.3	4.46	0.67	5.13	173.06	-0.00229	18.21	0.23	4.42	0.69	5.11	173.06	0.00076	41.84	0.54
4.34	0.68	5.02	173.06	-0.00231	31.81	0.4	4.49	0.67	5.16	173.06	-0.00273	20.56	0.26	4.48	0.69	5.17	173.06	0.00081	46.41	0.59
4.47	0.68	5.15	173.06	-0.00216	25.22	0.3	4.61	0.68	5.29	173.06	-0.00174	19.65	0.25	4.60	0.69	5.29	173.06	0.00072	40.26	0.52
4.59	0.67	5.26	176.49	-0.00251	26.25	0.3	4.73	0.67	5.41	176.49	-0.00214	19.63	0.25	4.74	0.69	5.43	176.49	0.00082	43.35	0.54
4.47	0.68	5.15	185.05	-0.00236	30.61	0.4	4.62	0.67	5.29	185.05	-0.00229	22.02	0.26	4.61	0.69	5.30	185.05	0.00084	45.88	0.55
4.31	0.68	4.99	211.61	-0.00337	38.02	0.4	4.44	0.67	5.12	211.61	-0.00313	31.37	0.33	4.42	0.69	5.10	211.61	0.00110	58.39	0.61
4.53	0.68	5.21	203.90	-0.00287	39.52	0.4	4.66	0.68	5.34	203.90	-0.00294	30.67	0.33	4.65	0.69	5.34	203.90	0.00106	57.11	0.62
4.54	0.68	5.22	277.58	-0.00413	62.09	0.5	4.68	0.67	5.36	277.58	-0.00495	47.60	0.38	4.67	0.69	5.36	277.58	0.00151	83.47	0.67
4.58	0.68	5.26	274.15	-0.00403	57.22	0.5	4.71	0.67	5.38	274.15	-0.00471	43.31	0.35	4.73	0.69	5.42	274.15	0.00145	78.74	0.64
4.54	0.68	5.22	217.61	-0.00300	42.57	0.4	4.67	0.67	5.34	217.61	-0.00365	28.96	0.30	4.68	0.69	5.37	217.61	0.00111	60.20	0.61
4.47	0.68	5.15	213.33	-0.00305	36.93	0.4	4.59	0.67	5.27	213.33	-0.00306	28.17	0.29	4.58	0.69	5.27	213.33	0.00105	55.99	0.58
4.55	0.68	5.22	222.75	-0.00340	38.34	0.4	4.67	0.68	5.34	222.75	-0.00299	32.45	0.32	4.64	0.69	5.33	222.75	0.00115	59.58	0.59
4.54	0.67	5.21	229.60	-0.00370	38.68	0.4	4.65	0.68	5.33	229.60	-0.00293	35.51	0.34	4.66	0.69	5.35	229.60	0.00120	61.16	0.59
4.49	0.68	5.17	262.16	-0.00416	48.62	0.4	4.60	0.68	5.28	262.16	-0.00377	42.57	0.36	4.59	0.69	5.27	262.16	0.00142	72.27	0.61
4.56	0.68	5.24	245.88	-0.00401	45.28	0.4	4.67	0.67	5.35	245.88	-0.00393	36.16	0.33	4.65	0.69	5.34	245.88	0.00131	69.31	0.63
4.39	0.67	5.06	246.74	-0.00434	41.70	0.4	4.46	0.68	5.14	246.74	-0.00349	39.40	0.35	4.45	0.69	5.14	246.74	0.00137	67.78	0.61
4.62	0.67	5.30	293.86	-0.00539	51.80	0.4	4.65	0.68	5.33	293.86	-0.00411	53.26	0.40	4.71	0.69	5.40	293.86	0.00177	83.35	0.63
4.57	0.67	5.24	299.00	-0.00581	53.46	0.4	4.61	0.68	5.29	299.00	-0.00436	56.45	0.42	4.64	0.69	5.33	299.00	0.00188	86.99	0.65
4.53	0.67	5.20	245.88	-0.00450	39.50	0.4	4.56	0.68	5.24	245.88	-0.00337	39.44	0.36	4.60	0.69	5.29	245.88	0.00150	67.78	0.61
4.62	0.67	5.30	231.32	-0.00423	40.67	0.4	4.67	0.68	5.34	231.32	-0.00350	38.00	0.36	4.71	0.69	5.40	231.32	0.00151	68.03	0.65
4.62	0.67	5.30	240.74	-0.00407	42.53	0.4	4.67	0.68	5.35	240.74	-0.00344	38.79	0.36	4.73	0.69	5.41	240.74	0.00154	68.86	0.63
4.42	0.67	5.10	241.60	-0.00418	43.65	0.4	4.46	0.67	5.13	241.60	-0.00422	35.26	0.32	4.50	0.69	5.18	241.60	0.00153	69.00	0.63
4.55	0.67	5.22	263.87	-0.00457	47.76	0.4	4.60	0.67	5.27	263.87	-0.00455	39.90	0.34	4.64	0.69	5.32	263.87	0.00168	75.28	0.63
4.73	0.67	5.41	266.44	-0.00461	46.23	0.4	4.78	0.67	5.45	266.44	-0.00479	36.06	0.30	4.84	0.69	5.52	266.44	0.00167	75.41	0.63
4.57	0.68	5.25	236.46	-0.00402	43.70	0.4	4.62	0.67	5.29	236.46	-0.00437	32.86	0.31	4.67	0.69	5.35	236.46	0.00152	68.73	0.64
4.56	0.68	5.23	273.30	-0.00484	52.61	0.4	4.60	0.67	5.26	273.30	-0.00547	38.89	0.32	4.65	0.69	5.34	273.30	0.00177	80.63	0.65
4.52	0.67	5.20	310.99	-0.00621	62.27	0.4	4.56	0.67	5.22	310.99	-0.00687	48.79	0.35	4.61	0.69	5.30	310.99	0.00214	96.69	0.69
4.57	0.67	5.24	282.72	-0.00558	51.26	0.4	4.61	0.67	5.27	282.72	-0.00579	41.15	0.32	4.67	0.69	5.36	282.72	0.00192	84.09	0.66
4.53	0.67	5.20	253.59	-0.00489	42.90	0.4	4.57	0.66	5.23	253.59	-0.00516	32.36	0.28	4.61	0.69	5.29	253.59	0.00166	72.78	0.64
4.59	0.67	5.26	261.30	-0.00489	44.93	0.4	4.62	0.65	5.28	261.30	-0.00548	29.75	0.25	4.69	0.69	5.38	261.30	0.00172	74.62	0.63

4.44	0.67	5.11	330.70	-0.00680	65.39	0.4	4.43	0.65	5.09	330.70	-0.00812	44.09	0.30	4.51	0.69	5.20	330.70	0.00239	101.99	0.68
4.51	0.67	5.18	346.12	-0.00703	70.53	0.5	4.52	0.65	5.17	346.12	-0.00874	43.82	0.28	4.58	0.69	5.27	346.12	0.00251	108.12	0.69
4.52	0.68	5.20	343.55	-0.00660	71.68	0.5	4.52	0.65	5.16	343.55	-0.00875	40.21	0.26	4.62	0.69	5.31	343.55	0.00247	106.27	0.69
4.55	0.67	5.23	338.41	-0.00659	68.88	0.5	4.48	0.63	5.12	338.41	-0.00884	33.23	0.22	4.63	0.69	5.31	338.41	0.00246	103.85	0.68
4.40	0.68	5.08	330.70	-0.00614	69.23	0.5	4.35	0.65	4.99	330.70	-0.00840	38.63	0.26	4.46	0.69	5.15	330.70	0.00243	100.56	0.67
4.30	0.68	4.97	200.48	-0.00323	37.75	0.4	4.26	0.64	4.90	200.48	-0.00439	18.36	0.20	4.34	0.69	5.03	200.48	0.00139	58.26	0.64
4.26	0.67	4.93	308.42	-0.00626	60.20	0.4	4.24	0.57	4.82	308.42	-0.00793	16.57	0.12	4.31	0.69	5.00	308.42	0.00222	93.52	0.67
4.47	0.67	5.14	304.14	-0.00602	55.35	0.4	4.43	0.48	4.91	304.14	-0.00662	8.30	0.06	4.53	0.69	5.22	304.14	0.00209	89.94	0.66
4.50	0.67	5.17	255.31	-0.00488	44.91	0.4	4.43	0.48	4.91	255.31	0.01617	6.76	0.06	4.56	0.69	5.25	255.31	0.00171	75.25	0.65
4.45	0.67	5.12	287.86	-0.00548	54.93	0.4	4.28	0.48	4.76	287.86	0.00652	8.18	0.06	4.50	0.69	5.18	287.86	0.00196	85.92	0.66

Lampiran 9
Dokumentasi:

