

DAFTAR PUSTAKA

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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 absorptivitas untuk setiap sudut atau *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*

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

850 APPENDIX 1					
TABLE A-6					
Properties of insulating materials (at a mean temperature of 24°C)					
Material	Thickness, <i>L</i> mm	Density, ρ kg/m ³	Thermal Conductivity, <i>k</i> W/m · K	Specific Heat, <i>c_p</i> kJ/kg · K	<i>R</i> -value (for listed thickness, <i>L/k</i>), K · m ² /W
Blanket and Batt					
Mineral fiber (fibrous form)	50 to 70 mm	4.8–32	—	0.71–0.96	1.23
processed from rock, slag, or glass)	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 (<i>R</i> -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*

860 APPENDIX 1							
TABLE A-15							
Properties of air at 1 atm pressure							
Temp. $T, ^\circ\text{C}$	Density $\rho, \text{kg/m}^3$	Specific Heat $c_p, \text{J/kg} \cdot \text{K}$	Thermal Conductivity $k, \text{W/m} \cdot \text{K}$	Thermal Diffusivity $\alpha, \text{m}^2/\text{s}^2$	Dynamic Viscosity $\mu, \text{kg/m} \cdot \text{s}$	Kinematic Viscosity $\nu, \text{m}^2/\text{s}$	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. Hestermans, 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 <i>ρ</i> , 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 <i>μ</i> , kg/m · s		Prandtl Number <i>Pr</i>		Volume Expansion Coefficient <i>β</i> , 1/K
		Liquid	Vapor		Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid
0.01	0.6113	999.8	0.0048	2501	4217	1854	0.561	0.0171	1.792 × 10 ⁻³	0.922 × 10 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	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 ⁻³	2.06	3.73	
374.14	22,090	317.0	317.0	0	—	—	—	—	0.043 × 10 ⁻³	4.313 × 10 ⁻³			

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.

Source: Viscosity and thermal conductivity data are from J. V. Sengers and J. T. R. Watson, *Journal of Physical and Chemical Reference Data* 15 (1986), pp. 1291–1322. Other data are obtained from various sources or calculated.

Lampiran 7. (TABEL DATA)

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 0° (Data 1)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Illum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Illum (I)
0	27.05	27.05	26.80	27.40	26.90	26.70	27.05	25.40	956	26.95	26.95	26.40	26.70	26.70	26.90	25.50	1016
1	27.20	30.03	40.30	29.00	43.60	45.70	27.05	29.90	994	27.10	30.57	41.00	41.00	44.60	26.90	28.90	1016
2	27.39	31.93	42.70	30.50	49.00	53.00	27.05	30.60	1004	27.29	32.67	43.80	45.80	50.50	26.90	29.50	1016
3	27.44	32.86	43.80	31.50	53.10	57.90	27.10	30.60	1013	27.34	33.30	44.80	49.40	54.90	26.90	29.30	1016
4	27.64	33.40	44.80	32.30	56.60	62.10	27.10	31.10	1013	27.49	33.64	45.40	52.40	59.00	27.05	29.60	1016
5	27.78	33.89	45.50	33.10	59.50	65.70	27.15	30.80	1015	27.69	33.98	45.80	54.90	61.80	27.10	29.30	1016
6	27.88	34.28	46.00	33.70	61.90	68.00	27.29	31.10	1015	27.78	34.23	46.30	56.90	64.00	27.25	29.00	1016
7	27.98	34.62	46.60	34.20	64.00	70.90	27.34	32.60	1021	27.83	34.42	46.70	58.80	66.40	27.29	30.10	1016
8	28.13	34.91	47.10	34.70	65.70	72.80	27.49	32.60	1021	27.98	34.67	47.10	60.40	68.90	27.44	31.40	1016
9	28.17	35.21	47.70	35.20	67.20	74.90	27.64	32.20	1023	28.13	34.86	47.40	61.80	70.50	27.59	31.30	1016
10	28.27	35.45	48.10	35.70	68.40	75.40	27.73	31.80	1021	28.17	35.06	47.60	63.00	71.70	27.69	31.60	1016
11	28.37	35.69	48.50	36.20	69.50	77.00	27.88	32.20	1023	28.32	35.25	48.00	64.10	72.90	27.83	31.40	1016
12	28.42	35.99	48.90	36.60	70.50	78.70	27.98	32.20	1026	28.37	35.40	48.30	65.00	73.80	27.98	31.20	1016
13	28.52	36.08	49.10	36.80	71.20	79.50	28.13	32.30	1029	28.47	35.55	48.50	65.80	74.50	28.08	31.30	1016
14	28.66	36.38	49.50	37.20	72.00	79.80	28.22	32.60	1026	28.56	35.69	48.80	66.50	75.50	28.27	32.00	1016
15	28.76	36.52	49.90	37.70	72.70	80.30	28.37	31.90	1029	28.66	35.79	49.00	67.20	76.10	28.37	32.30	1016
16	28.76	36.67	50.20	38.00	73.20	80.70	28.52	31.60	1026	28.76	36.04	49.50	67.80	76.90	28.52	32.30	1016
17	28.81	36.82	50.40	38.30	73.50	81.70	28.71	32.80	1026	28.86	36.33	49.80	68.30	77.40	28.66	31.50	1016
18	28.96	37.01	50.70	38.50	74.00	81.70	28.86	32.50	1032	28.96	36.47	50.10	68.70	77.80	28.81	32.50	1016
19	29.05	37.16	50.80	38.80	74.40	82.40	28.96	33.30	1032	29.05	36.62	50.30	69.20	78.80	29.00	33.40	1013
20	29.15	37.30	51.10	39.10	74.90	82.90	29.20	33.50	1032	29.15	36.72	50.50	69.60	78.80	29.15	32.40	1013
21	29.30	37.50	51.40	39.40	75.20	82.70	29.25	33.40	1032	29.25	36.87	50.70	70.00	79.40	29.30	32.10	1016
22	29.30	37.55	51.50	39.60	75.40	83.40	29.49	32.50	1032	29.35	37.06	50.90	70.30	78.70	29.44	32.30	1016
23	29.35	37.70	51.70	39.80	75.70	83.40	29.64	32.90	1032	29.44	37.16	51.00	70.50	80.10	29.64	32.80	1016
24	29.49	37.84	51.90	40.00	75.90	83.70	29.79	32.60	1032	29.54	37.26	51.20	70.90	80.10	29.79	32.80	1019
25	29.64	37.94	52.10	40.20	76.20	84.00	29.98	33.70	1032	29.69	37.40	51.30	71.10	80.10	29.93	33.70	1019
26	29.74	38.13	52.30	40.40	76.40	84.20	30.13	32.60	1032	29.79	37.55	51.50	71.40	80.10	30.08	32.60	1016

27	29.79	38.23	52.50	40.70	76.50	84.20	30.27	32.30	1032	29.83	37.60	51.60	71.50	79.80	30.27	32.20	1019
28	29.88	38.33	52.60	40.80	76.60	84.60	30.42	33.60	1032	29.93	37.70	51.70	71.80	80.60	30.42	33.60	1022
29	29.93	38.48	52.80	41.00	76.80	84.60	30.62	32.40	1034	30.03	37.84	51.90	72.00	81.20	30.57	33.40	1019
30	30.13	38.67	52.90	41.20	77.00	84.50	30.76	34.00	1032	30.13	37.89	52.00	72.10	81.10	30.81	33.40	1019
31	30.27	38.72	53.10	41.40	77.20	84.40	30.91	32.90	1037	30.32	38.04	52.20	72.30	81.20	30.91	32.90	1022
32	30.37	38.92	53.20	41.50	77.40	84.30	31.15	33.80	1034	30.42	38.18	52.30	72.40	80.90	31.15	32.50	1022
33	30.47	39.06	53.40	41.70	77.50	84.30	31.30	32.70	1037	30.47	38.28	52.50	72.60	81.10	31.20	31.90	1019
34	30.52	39.11	53.50	41.90	77.60	84.60	31.45	33.40	1034	30.57	38.33	52.50	72.70	81.30	31.40	32.40	1019
35	30.66	39.26	53.60	42.00	77.70	84.70	31.59	33.10	1034	30.66	38.53	52.80	72.90	81.80	31.49	33.40	1032
36	30.86	39.40	53.80	42.20	78.00	84.90	31.79	32.90	1037	30.81	38.72	52.90	73.10	82.10	31.69	33.80	1032
37	30.91	39.50	53.90	42.30	78.10	85.00	31.93	33.20	1034	30.86	38.87	53.20	73.40	82.30	31.88	34.10	1032
38	31.01	39.65	54.10	42.50	78.10	84.90	32.08	32.70	1034	31.01	39.01	53.20	73.50	81.90	31.98	32.80	1032
39	31.05	39.84	54.20	42.60	78.20	84.90	32.23	32.60	1034	31.05	39.11	53.30	73.60	83.00	32.13	32.60	1035
40	31.10	39.89	54.40	42.80	78.30	84.80	32.37	31.90	1032	31.25	39.21	53.50	73.50	83.50	32.28	32.30	1032
41	31.30	39.99	54.50	42.90	78.40	85.50	32.57	34.60	1037	31.30	39.36	53.60	73.70	83.30	32.42	33.00	1035
42	31.35	40.14	54.60	43.10	78.50	85.30	32.71	33.40	1034	31.35	39.40	53.70	73.70	81.70	32.57	31.00	1035
43	31.45	40.28	54.70	43.20	78.60	85.50	32.81	33.20	1037	31.35	39.50	53.80	73.50	82.30	32.76	31.60	1032
44	31.49	40.28	54.80	43.20	78.60	85.40	33.01	32.30	1037	31.40	39.55	53.80	73.50	81.70	32.86	30.80	1032
45	31.59	40.38	54.90	43.50	78.70	85.50	33.15	32.70	1034	31.45	39.60	53.80	73.50	82.70	33.01	32.80	1032
46	31.69	40.48	55.10	43.60	78.70	85.20	33.30	34.40	1034	31.59	39.75	54.00	73.60	82.70	33.15	33.40	1032
47	31.88	40.63	55.10	43.70	78.70	85.80	33.45	33.60	1034	31.69	39.84	54.10	73.80	83.00	33.35	32.10	1032
48	31.98	40.67	55.20	43.80	78.90	86.00	33.54	33.70	1037	31.84	39.89	54.20	73.80	82.50	33.45	31.30	1032
49	32.08	40.87	55.40	44.00	79.00	86.00	33.69	33.40	1040	31.88	39.99	54.30	73.70	82.30	33.59	30.70	1032
50	32.08	40.92	55.50	44.00	78.90	85.30	33.84	32.60	1034	31.93	40.04	54.30	73.70	82.60	33.69	32.00	1032
51	32.13	41.06	55.60	44.20	79.00	85.80	33.98	33.00	1040	31.98	40.14	54.30	73.70	82.70	33.84	32.40	1032
52	32.32	41.16	55.70	44.30	79.00	85.50	34.13	33.70	1037	32.08	40.19	54.50	74.00	82.90	33.94	32.30	1032
53	32.47	41.26	55.80	44.50	79.20	86.70	34.33	33.70	1040	32.23	40.33	54.60	74.10	82.70	34.08	32.30	1032
54	32.57	41.36	55.80	44.50	79.20	86.10	34.42	33.80	1037	32.37	40.48	54.70	74.00	82.00	34.28	31.50	1032
55	32.67	41.46	56.00	44.60	79.40	86.40	34.52	33.70	1040	32.37	40.53	54.80	73.90	82.30	34.33	30.10	1032
56	32.67	41.50	56.10	44.80	79.40	85.80	34.67	33.20	1040	32.37	40.63	54.80	74.00	82.10	34.47	32.00	1032
57	32.71	41.60	56.30	44.90	79.40	86.00	34.77	32.40	1037	32.52	40.67	54.80	74.10	82.70	34.57	32.70	1032
58	32.86	41.75	56.30	45.10	79.40	85.80	34.91	33.60	1032	32.62	40.77	54.90	74.10	82.60	34.67	33.00	1032
59	33.01	41.80	56.30	45.20	79.40	86.30	35.11	33.40	1034	32.76	40.92	55.10	74.10	82.10	34.81	32.80	1032
60	33.15	41.89	56.50	45.20	79.50	86.10	35.21	34.70	1040	32.76	40.97	55.20	74.20	82.10	34.96	31.60	1032
61	33.20	42.04	56.60	45.30	79.50	86.00	35.30	32.90	1034	32.86	41.02	55.20	74.10	82.30	35.11	30.50	1032
62	33.25	42.14	56.70	45.50	79.50	86.50	35.45	33.70	1034	32.91	41.06	55.20	74.30	82.80	35.21	32.90	1032

63	33.30	42.19	56.80	45.50	79.50	85.90	35.55	33.20	1034	33.06	41.16	55.40	74.30	83.20	35.30	32.80	1032
64	33.45	42.24	56.90	45.60	79.50	85.70	35.69	32.90	1034	33.20	41.31	55.40	74.40	83.30	35.40	32.90	1032
65	33.54	42.33	56.90	45.70	79.50	85.90	35.84	33.20	1034	33.25	41.41	55.50	74.40	82.70	35.50	31.40	1032
66	33.64	42.43	57.00	45.80	79.70	86.30	35.94	34.10	1034	33.25	41.46	55.70	74.30	82.20	35.64	31.20	1032
67	33.84	42.53	57.10	45.80	79.80	85.90	36.08	33.70	1034	33.25	41.46	55.70	74.40	82.60	35.79	31.60	1032
68	33.84	42.63	57.20	46.00	79.80	86.00	36.18	33.10	1032	33.40	41.60	55.80	74.40	83.30	35.89	33.40	1032
69	33.84	42.68	57.40	46.20	79.80	86.40	36.28	33.40	1037	33.59	41.65	55.80	74.50	83.50	35.94	32.30	1032
70	33.94	42.72	57.40	46.20	79.80	86.50	36.43	33.30	1037	33.64	41.75	55.70	74.40	82.70	36.08	31.50	1011
71	34.03	42.82	57.50	46.30	80.00	86.10	36.52	33.40	1032	33.64	41.80	55.80	74.40	82.10	36.18	31.20	1024
72	34.18	42.97	57.50	46.40	80.00	87.00	36.67	34.10	1037	33.64	41.75	55.70	74.10	82.30	36.28	30.50	1013
73	34.28	43.02	57.60	46.50	80.00	87.00	36.72	33.90	1032	33.74	41.85	55.80	74.00	82.10	36.33	32.30	1008
74	34.38	43.12	57.70	46.70	80.20	86.40	36.87	33.60	1032	33.84	41.85	55.70	74.00	83.20	36.47	32.90	1008
75	34.42	43.21	57.90	46.80	80.00	86.60	36.96	32.90	1034	34.03	41.94	55.80	74.10	82.90	36.57	32.90	1008
76	34.42	43.21	58.00	46.90	80.10	87.00	37.06	33.10	1040	34.13	42.09	56.00	74.20	82.10	36.67	31.60	1005
77	34.52	43.36	58.00	47.00	80.00	86.50	37.16	33.10	1040	34.13	42.14	56.10	74.30	82.00	36.77	32.40	1005
78	34.62	43.41	58.10	47.10	80.10	86.80	37.30	33.60	1034	34.18	42.24	56.10	74.20	81.80	36.82	31.30	1008
79	34.72	43.51	58.20	47.10	80.10	87.00	37.45	33.30	1032	34.23	42.24	56.10	74.10	81.60	37.06	32.60	1005
80	34.81	43.60	58.20	47.10	80.10	87.40	37.45	33.50	1032	34.33	42.24	56.00	74.10	82.40	37.06	33.30	1005
81	34.96	43.70	58.30	47.30	80.40	86.20	37.55	33.60	1034	34.42	42.33	56.20	74.20	82.70	37.11	31.90	1005
82	34.96	43.80	58.40	47.40	80.30	86.70	37.70	32.60	1037	34.42	42.38	56.30	74.20	82.40	37.21	31.80	1008
83	35.01	43.80	58.50	47.40	80.20	86.90	37.79	32.30	1040	34.52	42.43	56.40	74.30	81.90	37.30	31.60	1005
84	35.01	43.85	58.60	47.50	80.20	86.90	37.84	33.20	1032	34.52	42.48	56.40	74.20	82.10	37.45	30.70	1005
85	35.21	43.95	58.60	47.50	80.30	86.50	37.99	32.50	1032	34.67	42.58	56.40	74.10	82.10	37.45	31.90	1005
86	35.30	43.99	58.60	47.50	80.30	87.00	38.09	34.40	1034	34.72	42.63	56.40	74.10	82.10	37.50	31.40	1005
87	35.40	44.09	58.70	47.70	80.40	86.40	38.18	34.20	1034	34.81	42.77	56.60	74.20	82.90	37.60	32.40	1005
88	35.45	44.14	58.80	47.80	80.40	86.20	38.28	34.20	1034	34.81	42.82	56.60	74.30	82.60	37.70	31.80	1003
89	35.50	44.19	59.00	47.90	80.40	86.90	38.38	33.60	1034	34.91	42.82	56.60	74.10	82.10	37.74	31.30	1005
90	35.55	44.29	58.90	47.90	80.40	85.50	38.48	32.60	1034	34.96	42.92	56.80	74.10	82.10	37.84	31.80	1005
91	35.60	44.34	59.10	48.10	80.60	86.30	38.62	32.90	1032	35.01	42.92	56.70	74.10	82.40	37.94	33.40	1005
92	35.74	44.43	59.20	48.10	80.70	86.50	38.67	32.80	1034	35.21	43.02	56.80	74.30	82.20	38.04	32.00	1005
93	35.79	44.48	59.10	48.10	80.70	87.40	38.77	33.90	1034	35.21	43.12	56.80	74.40	82.60	38.13	31.10	1005
94	35.89	44.58	59.20	48.10	80.70	86.80	38.82	34.50	1032	35.21	43.16	56.90	74.30	82.30	38.18	32.70	1005
95	35.99	44.87	59.40	48.40	80.90	87.00	38.96	33.40	1032	35.25	43.21	56.90	74.30	82.10	38.23	30.60	1003
96	35.99	44.92	59.40	48.50	80.90	87.80	39.01	32.60	1037	35.35	43.21	56.90	74.20	82.30	38.28	32.40	1003
97	36.08	44.97	59.20	48.50	80.70	87.50	39.11	32.90	1034	35.50	43.31	56.90	74.30	82.60	38.38	32.40	1005
98	36.13	44.97	59.20	48.50	80.70	86.80	39.21	34.20	1032	35.55	43.36	57.10	74.40	83.20	38.48	32.60	1005

99	36.18	45.07	59.20	48.50	80.70	87.00	39.31	33.40	1034	35.40	43.51	57.20	74.60	82.50	38.57	32.40	1005
100	36.33	45.17	59.40	48.70	80.90	87.10	39.40	33.70	1032	35.50	43.41	57.20	74.60	82.40	38.62	31.80	1005
101	36.38	45.21	59.50	48.80	80.90	87.30	39.50	33.60	1032	35.55	43.41	57.20	74.40	82.10	38.62	31.60	1005
102	36.38	45.26	59.40	48.80	80.90	87.40	39.55	33.40	1032	35.60	43.46	57.20	74.40	82.90	38.72	32.60	1008
103	36.43	45.36	59.50	48.90	81.00	87.30	39.60	34.20	1037	35.74	43.55	57.30	74.60	83.40	38.82	33.20	1005
104	36.47	45.36	59.50	49.00	81.10	87.60	39.70	34.40	1037	35.79	43.70	57.40	74.60	82.90	38.92	31.90	1005
105	36.57	45.41	59.50	49.10	81.20	87.00	39.79	33.70	1034	35.89	43.75	57.40	74.60	82.50	38.96	31.70	1005
106	36.72	45.51	59.50	49.10	81.30	87.40	39.89	34.10	1034	35.84	43.75	57.40	74.60	82.60	39.01	31.30	1005
107	36.82	45.56	59.70	49.20	81.50	87.30	39.99	34.70	1032	35.94	43.80	57.40	74.60	82.10	39.06	31.00	1005
108	36.77	45.61	59.80	49.30	81.40	87.40	40.04	32.70	1034	35.99	43.80	57.50	74.60	82.90	39.16	32.50	1005
109	36.82	45.65	59.80	49.40	81.40	86.70	40.14	33.40	1034	36.08	43.90	57.50	74.70	83.30	39.16	32.40	1005
110	36.91	45.75	59.90	49.40	81.30	87.50	40.19	33.70	1034	36.18	43.90	57.60	74.70	82.30	39.26	32.50	1005
111	36.96	45.75	60.00	49.50	81.40	88.10	40.28	34.30	1032	36.18	43.99	57.60	74.70	82.00	39.36	30.80	1005
112	37.11	45.80	60.00	49.50	81.40	87.80	40.33	34.50	1032	36.18	43.99	57.70	74.60	81.70	39.40	31.30	1005
113	37.16	45.95	60.00	49.50	81.50	87.40	40.43	33.90	1032	36.18	43.99	57.70	74.60	82.00	39.40	31.90	1005
114	37.16	45.95	60.10	49.60	81.60	87.50	40.53	33.20	1034	36.28	44.09	57.70	74.70	82.90	39.50	33.10	1005
115	37.16	46.00	60.10	49.70	81.50	87.50	40.58	34.20	1032	36.43	44.19	57.80	74.80	82.90	39.60	32.80	1005
116	37.21	46.09	60.30	49.80	81.60	87.20	40.63	33.70	1032	36.47	44.19	57.80	74.70	82.60	39.60	32.40	1003
117	37.26	46.09	60.30	49.80	81.50	86.90	40.72	33.10	1032	36.52	44.29	58.00	74.70	82.30	39.70	31.00	1005
118	37.35	46.14	60.30	49.80	81.70	87.80	40.77	33.30	1029	36.47	44.29	58.00	74.70	82.10	39.79	31.30	1003
119	37.45	46.19	60.30	49.80	81.60	88.00	40.87	33.90	1032	36.52	44.34	58.00	74.60	82.30	39.79	31.50	1005
120	37.60	46.24	60.40	50.00	81.70	87.50	40.97	33.50	1032	36.57	44.38	58.00	74.70	83.30	39.89	32.60	1005
121	37.60	46.34	60.40	50.00	81.70	87.30	41.02	33.90	1032	36.72	44.48	58.00	74.70	82.70	39.89	32.10	1005
122	37.60	46.34	60.40	50.10	81.60	87.50	41.06	33.80	1029	36.72	44.53	58.10	74.90	82.60	39.94	32.50	1005
123	37.60	46.39	60.40	50.10	81.40	87.10	41.16	33.60	1029	36.77	44.58	58.10	74.80	82.40	40.04	31.80	1005
124	37.70	46.44	60.50	50.20	81.50	87.60	41.21	33.40	1029	36.72	44.53	58.10	74.70	82.40	40.09	30.50	1005
125	37.79	46.53	60.60	50.30	81.60	87.70	41.31	34.10	1032	36.77	44.58	58.10	74.70	82.40	40.14	32.20	1005
126	37.89	46.58	60.60	50.20	81.70	87.80	41.36	34.90	1026	36.87	44.58	58.20	74.70	83.10	40.19	33.60	1005
127	37.89	46.58	60.70	50.30	81.70	87.70	41.41	33.80	1026	36.91	44.68	58.30	74.90	83.30	40.23	32.50	1005
128	37.89	46.68	60.80	50.40	81.80	87.30	41.46	33.80	1029	36.96	44.78	58.30	75.00	83.30	40.33	31.80	1005
129	37.94	46.68	60.80	50.50	81.80	87.20	41.55	33.20	1029	36.96	44.78	58.40	75.00	83.00	40.38	31.60	1005
130	37.99	46.73	60.80	50.50	81.70	87.10	41.65	33.40	1032	36.96	44.73	58.40	74.90	82.30	40.38	31.50	1005
131	38.04	46.83	60.90	50.50	81.80	88.10	41.70	34.20	1032	37.01	44.78	58.40	74.80	83.00	40.48	31.90	1005
132	38.18	46.88	60.90	50.60	82.00	88.00	41.75	33.90	1026	37.11	44.87	58.40	74.90	83.00	40.53	32.30	1005
133	38.23	46.92	60.90	50.60	81.90	88.10	41.85	33.90	1029	37.21	44.97	58.50	75.00	84.20	40.58	32.90	1005
134	38.23	46.97	61.00	50.70	82.00	88.10	41.85	34.70	1029	37.21	44.97	58.40	75.00	82.60	40.58	29.90	1003

135	38.28	46.97	61.10	50.80	82.00	87.50	41.94	33.70	1026	37.21	44.97	58.60	75.00	82.70	40.63	31.20	1003
136	38.28	46.97	61.10	50.90	81.90	87.60	41.99	32.60	1026	37.21	44.97	58.60	74.80	82.60	40.67	31.90	1003
137	38.33	47.02	61.20	51.00	82.00	87.70	42.09	34.10	1026	37.26	44.97	58.60	74.80	82.90	40.77	32.40	1003
138	38.43	47.12	61.20	50.90	82.00	88.60	42.14	34.20	1029	37.35	45.07	58.60	74.90	82.70	40.77	32.30	1005
139	38.48	47.17	61.20	50.90	82.00	87.30	42.14	34.30	1029	37.50	45.17	58.70	75.00	82.90	40.87	32.80	1005
140	38.48	47.22	61.20	51.00	82.10	87.20	42.24	33.40	1026	37.45	45.17	58.80	75.20	82.40	40.92	31.60	1005
141	38.48	47.22	61.40	51.10	82.10	87.30	42.29	33.40	1026	37.40	45.17	58.90	75.10	82.40	40.92	31.80	1005
142	38.57	47.31	61.40	51.10	82.00	87.60	42.33	33.20	1026	37.45	45.17	58.80	75.00	82.30	40.97	31.10	1005
143	38.62	47.31	61.40	51.10	82.00	87.50	42.38	35.00	1029	37.60	45.21	58.80	75.00	82.60	41.02	32.20	1003
144	38.67	47.36	61.40	51.10	82.00	88.40	42.43	33.70	1029	37.60	45.26	58.80	75.00	83.10	41.06	33.00	1005
145	38.77	47.41	61.50	51.20	82.10	87.90	42.48	33.90	1029	37.65	45.31	58.90	75.10	83.30	41.16	33.10	1003
146	38.77	47.51	61.60	51.20	82.20	87.80	42.53	33.50	1026	37.60	45.36	58.90	75.20	82.90	41.16	32.20	1003
147	38.77	47.41	61.50	51.30	82.20	88.00	42.63	33.20	1029	37.70	45.36	58.90	75.20	82.70	41.16	30.80	1003
148	38.82	47.51	61.60	51.40	82.20	87.70	42.68	32.90	1029	37.60	45.36	59.00	75.20	82.40	41.26	30.00	1003
149	38.87	47.56	61.60	51.40	82.10	88.10	42.72	34.30	1026	37.70	45.41	58.90	75.10	82.50	41.31	32.40	1005
150	39.01	47.66	61.70	51.50	82.30	88.60	42.77	35.20	1029	37.74	45.41	58.90	75.20	83.10	41.36	32.20	1005
151	39.06	47.71	61.60	51.40	82.30	87.80	42.82	35.00	1026	37.79	45.56	59.00	75.20	83.50	41.36	32.10	1005
152	39.11	47.71	61.80	51.50	82.40	87.80	42.87	33.30	1026	37.89	45.56	59.10	75.20	82.90	41.41	31.90	1005
153	39.06	47.71	61.80	51.50	82.40	88.00	42.92	32.80	1026	37.89	45.61	59.20	75.20	82.40	41.41	31.60	1005
154	39.06	47.75	61.90	51.60	82.30	87.70	42.97	32.90	1029	37.89	45.61	59.20	75.00	82.90	41.46	30.30	1005
155	39.11	47.80	61.90	51.70	82.30	88.40	43.02	33.00	1026	37.89	45.65	59.10	75.00	82.90	41.50	32.60	1005
156	39.21	47.85	61.80	51.70	82.30	88.40	43.07	34.60	1026	37.99	45.70	59.20	75.10	83.90	41.55	33.00	1005
157	39.31	47.90	61.90	51.70	82.30	88.20	43.12	34.10	1026	37.99	45.75	59.20	75.20	83.30	41.65	32.80	1005
158	39.26	47.90	62.00	51.70	82.40	88.50	43.16	34.20	1029	38.09	45.80	59.30	75.40	82.90	41.65	30.30	1005
159	39.31	47.95	62.00	51.80	82.40	87.70	43.21	33.20	1029	38.09	45.75	59.40	75.20	82.60	41.70	31.70	1005
160	39.26	47.95	62.10	51.80	82.40	88.20	43.26	33.90	1029	38.04	45.75	59.40	75.20	82.80	41.75	31.10	1005
161	39.36	48.00	62.00	51.80	82.40	88.30	43.31	35.00	1029	38.09	45.75	59.30	75.20	83.00	41.75	32.10	1005
162	39.45	48.10	62.10	51.80	82.40	88.10	43.31	34.10	1026	38.13	45.80	59.40	75.30	83.70	41.80	32.70	1005
163	39.45	48.10	62.10	51.80	82.50	88.30	43.36	33.50	1029	38.23	45.90	59.40	75.40	83.00	41.80	31.80	1005
164	39.45	48.10	62.10	51.90	82.60	87.90	43.41	33.60	1029	38.23	45.90	59.50	75.40	83.10	41.85	31.90	1005
165	39.45	48.14	62.20	52.00	82.50	87.70	43.51	32.40	1026	38.28	45.90	59.50	75.40	83.50	41.89	32.90	1003
166	39.45	48.14	62.30	52.10	82.40	88.10	43.51	32.50	1026	38.28	45.95	59.50	75.40	82.70	41.94	31.00	1005
167	39.55	48.19	62.30	52.10	82.40	87.90	43.60	34.70	1029	38.28	45.95	59.50	75.40	82.90	41.99	32.30	1005
168	39.60	48.24	62.30	52.10	82.50	87.80	43.65	33.90	1029	38.33	45.95	59.40	75.50	84.00	41.99	32.40	1005
169	39.65	48.29	62.30	52.00	82.60	88.00	43.70	34.40	1029	38.38	46.04	59.50	75.60	83.80	42.04	33.30	1005
170	39.65	48.29	62.40	52.20	82.70	88.30	43.70	33.90	1032	38.43	46.09	59.60	75.60	83.60	42.09	32.40	1003

171	39.65	48.29	62.40	52.20	82.60	88.80	43.70	33.50	1032	38.38	46.14	59.50	75.50	83.60	42.14	31.20	1005
172	39.70	48.29	62.50	52.20	82.60	88.00	43.75	32.10	1032	38.38	46.09	59.50	75.50	82.90	42.14	31.20	1005
173	39.70	48.39	62.50	52.30	82.50	88.10	43.75	34.70	1029	38.38	46.09	59.60	75.40	83.30	42.19	31.90	1005
174	39.75	48.44	62.50	52.30	82.60	88.80	43.80	33.80	1029	38.43	46.09	59.70	75.50	83.40	42.19	32.00	1008
175	39.84	48.49	62.50	52.20	82.60	87.50	43.90	33.40	1029	38.48	46.14	59.70	75.50	83.30	42.24	32.60	1005
176	39.89	48.54	62.60	52.30	82.70	88.10	43.90	34.20	1026	38.57	46.19	59.70	75.60	83.90	42.24	32.60	1005
177	39.89	48.49	62.60	52.30	82.60	87.80	43.95	32.40	1029	38.53	46.19	59.80	75.50	82.90	42.29	32.10	1005
178	39.89	48.54	62.70	52.30	82.60	87.70	43.95	32.20	1029	38.57	46.19	59.70	75.40	83.10	42.33	30.50	1005
179	39.94	48.58	62.60	52.30	82.60	88.40	44.04	33.70	1029	38.57	46.19	59.70	75.30	83.80	42.33	32.30	1005
180	39.99	48.58	62.60	52.30	82.60	88.90	44.09	34.80	1029	38.62	46.29	59.70	75.40	84.00	42.33	33.20	1005

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 0° (Data 2)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)
0	27.00	27.00	26.70	27.50	26.70	26.70	26.95	25.40	1010	27.00	27.00	26.20	26.50	26.60	26.90	26.20	997
1	27.25	30.13	41.20	28.90	46.50	49.20	26.95	30.30	1023	27.34	30.76	41.50	41.80	46.10	26.90	30.60	997
2	27.39	32.08	43.50	30.20	51.80	55.40	26.95	30.40	1029	27.39	33.06	44.80	46.60	52.00	26.90	30.70	997
3	27.44	32.96	44.60	31.20	55.50	60.40	27.00	30.60	1032	27.44	33.84	45.80	50.30	57.10	26.90	30.10	997
4	27.59	33.54	45.60	32.10	58.80	64.40	27.00	30.70	1037	27.59	34.13	46.40	53.40	61.30	26.90	31.30	997
5	27.73	34.03	46.30	32.70	61.40	67.70	27.10	31.10	1043	27.78	34.42	46.90	56.10	64.10	27.00	31.30	997
6	27.83	34.42	46.90	33.40	63.70	70.20	27.20	31.50	1043	27.98	34.77	47.40	58.30	66.40	27.15	31.30	997
7	27.98	34.77	47.50	33.90	65.60	72.60	27.29	32.20	1043	28.08	35.06	47.70	60.30	69.00	27.29	31.50	1000
8	28.13	35.11	48.00	34.50	67.40	74.30	27.44	31.00	1043	28.17	35.30	48.10	61.80	70.80	27.44	31.20	997
9	28.17	35.40	48.50	35.00	68.60	76.10	27.59	31.00	1045	28.22	35.40	48.50	63.20	72.70	27.64	31.40	1003
10	28.22	35.69	48.90	35.50	69.80	77.20	27.69	31.70	1045	28.32	35.60	48.80	64.40	73.80	27.69	31.00	1003
11	28.32	35.94	49.20	35.90	70.90	78.30	27.88	32.90	1048	28.37	35.79	49.00	65.50	75.60	27.88	32.40	1003
12	28.47	36.08	49.60	36.30	71.80	78.90	27.98	33.20	1048	28.47	35.99	49.30	66.40	76.10	27.98	32.20	1005
13	28.52	36.28	50.00	36.70	72.70	80.30	28.13	32.90	1048	28.56	36.18	49.60	67.20	76.60	28.13	31.60	1005
14	28.61	36.47	50.30	37.10	73.40	80.90	28.27	32.30	1048	28.61	36.23	49.80	67.80	77.40	28.27	32.00	1003
15	28.71	36.72	50.60	37.50	74.00	81.40	28.37	32.40	1048	28.71	36.28	50.00	68.40	78.10	28.47	31.30	1005
16	28.76	36.87	50.80	37.70	74.40	81.60	28.52	32.40	1053	28.81	36.47	50.10	68.90	78.90	28.61	32.90	1005
17	28.91	37.06	51.10	38.10	74.90	82.10	28.71	32.90	1053	28.91	36.57	50.50	69.50	78.90	28.81	32.60	1005
18	29.00	37.21	51.30	38.40	75.50	82.90	28.86	32.30	1051	29.05	36.77	50.60	70.00	79.40	28.96	32.10	1008
19	29.15	37.35	51.60	38.60	75.70	82.30	29.05	32.20	1048	29.10	36.87	50.80	70.40	79.30	29.10	31.90	1005
20	29.15	37.55	51.80	39.00	76.10	83.70	29.20	32.60	1051	29.20	37.01	50.90	70.70	79.50	29.25	31.80	1005
21	29.20	37.60	52.00	39.30	76.40	83.80	29.35	32.70	1053	29.30	37.11	51.10	71.00	79.80	29.44	32.40	1008
22	29.30	37.74	52.10	39.40	76.60	83.30	29.54	33.10	1051	29.39	37.26	51.20	71.30	79.90	29.64	32.20	1005
23	29.44	37.89	52.40	39.80	77.00	84.20	29.64	32.60	1051	29.49	37.35	51.40	71.50	80.90	29.74	33.00	1008
24	29.59	38.04	52.60	40.00	77.30	84.70	29.83	33.00	1051	29.64	37.55	51.40	71.80	80.70	29.93	31.60	1008
25	29.74	38.23	52.80	40.10	77.40	84.10	30.03	32.70	1051	29.69	37.55	51.70	72.00	81.10	30.08	33.00	1005
26	29.74	38.33	52.90	40.40	77.60	84.60	30.18	32.40	1051	29.79	37.70	51.70	72.20	81.00	30.22	32.30	1008
27	29.79	38.43	53.10	40.60	77.70	85.00	30.37	32.90	1051	29.88	37.79	51.80	72.40	81.40	30.42	32.60	1008
28	29.88	38.53	53.20	40.90	78.00	84.90	30.52	32.90	1051	29.98	37.89	52.00	72.60	81.70	30.57	32.70	1008

29	30.03	38.67	53.30	40.90	78.10	85.30	30.66	34.00	1053	30.13	37.99	52.20	72.70	81.70	30.76	33.20	1008
30	30.13	38.77	53.40	41.10	78.40	85.60	30.81	33.90	1051	30.22	38.18	52.40	72.70	81.40	30.91	31.80	1008
31	30.27	38.92	53.70	41.30	78.40	84.90	31.01	32.30	1053	30.32	38.28	52.50	72.90	81.50	31.10	32.20	1005
32	30.32	39.11	53.80	41.50	78.50	84.60	31.20	32.30	1051	30.42	38.38	52.60	73.10	81.40	31.20	32.90	1008
33	30.42	39.21	54.00	41.70	78.60	84.90	31.35	32.70	1053	30.52	38.48	52.60	73.20	82.00	31.40	33.70	1005
34	30.52	39.31	54.00	41.70	78.70	85.20	31.49	33.00	1051	30.57	38.57	52.80	73.40	81.50	31.49	32.90	1005
35	30.62	39.40	54.10	41.90	78.80	85.20	31.64	34.10	1051	30.66	38.72	53.20	73.40	82.10	31.69	33.40	1013
36	30.81	39.50	54.30	42.20	79.00	85.40	31.79	33.10	1051	30.76	38.92	53.40	73.50	83.00	31.84	33.10	1013
37	30.91	39.65	54.50	42.30	79.20	84.70	31.93	33.40	1051	30.91	39.01	53.50	73.50	83.20	31.98	33.60	1013
38	30.91	39.75	54.60	42.40	79.20	85.30	32.08	31.30	1051	31.01	39.11	53.70	73.80	82.50	32.18	33.50	1016
39	31.01	39.84	54.60	42.60	79.30	85.30	32.28	31.70	1048	31.10	39.26	53.70	73.80	82.60	32.28	33.00	1013
40	31.15	39.89	54.80	42.80	79.40	85.50	32.42	33.60	1048	31.30	39.40	53.90	74.00	83.30	32.42	34.00	1013
41	31.30	40.04	54.80	42.80	79.40	85.80	32.57	34.20	1048	31.30	39.50	54.00	74.10	83.20	32.62	33.40	1013
42	31.35	40.14	54.90	42.90	79.50	85.80	32.71	33.70	1051	31.40	39.60	54.10	74.20	83.00	32.76	32.60	1013
43	31.49	40.28	55.10	43.10	79.70	85.80	32.86	33.40	1045	31.40	39.60	54.20	74.10	82.40	32.86	31.40	1013
44	31.49	40.38	55.20	43.20	79.50	85.40	33.06	32.80	1048	31.49	39.65	54.20	74.10	82.90	33.06	31.60	1013
45	31.59	40.48	55.30	43.40	79.60	86.00	33.15	32.80	1048	31.54	39.70	54.30	74.10	82.20	33.15	31.30	1013
46	31.69	40.48	55.40	43.40	79.70	85.30	33.35	33.10	1048	31.59	39.79	54.40	74.10	82.30	33.35	31.60	1013
47	31.84	40.67	55.50	43.50	79.80	85.80	33.54	33.10	1048	31.69	39.89	54.40	74.00	82.40	33.45	31.80	1013
48	31.93	40.72	55.50	43.50	79.80	86.70	33.64	33.90	1048	31.84	39.99	54.60	74.10	82.90	33.59	32.60	1013
49	32.08	40.87	55.70	43.70	79.90	86.30	33.79	32.90	1048	31.93	40.09	54.60	74.10	82.10	33.69	32.10	1013
50	32.08	40.97	55.80	44.00	80.10	85.90	33.94	32.90	1045	31.98	40.19	54.80	74.30	82.00	33.89	31.80	1013
51	32.18	41.06	55.90	44.00	80.10	85.70	34.03	33.10	1048	32.03	40.28	54.80	74.30	82.30	33.98	31.60	1013
52	32.28	41.16	56.00	44.10	80.10	85.50	34.18	32.30	1048	32.18	40.33	54.90	74.40	83.20	34.13	32.90	1013
53	32.37	41.21	56.00	44.20	80.10	85.50	34.33	33.00	1045	32.28	40.48	55.10	74.40	83.10	34.28	33.40	1013
54	32.47	41.36	56.10	44.30	80.30	85.90	34.42	33.10	1048	32.42	40.53	55.10	74.50	83.40	34.38	34.40	1013
55	32.57	41.46	56.20	44.40	80.30	85.70	34.57	33.90	1045	32.52	40.67	55.20	74.60	83.80	34.47	33.90	1013
56	32.67	41.55	56.30	44.50	80.30	86.40	34.72	33.20	1045	32.67	40.77	55.40	74.80	83.40	34.62	32.40	1013
57	32.81	41.65	56.40	44.60	80.40	86.40	34.86	33.90	1045	32.76	40.92	55.50	74.80	83.50	34.72	32.90	1016
58	32.86	41.75	56.60	44.80	80.40	86.00	35.01	33.10	1045	32.86	41.02	55.50	74.90	83.90	34.86	33.70	1016
59	32.91	41.85	56.60	44.90	80.40	86.70	35.11	32.40	1048	32.96	41.06	55.70	74.90	84.20	35.01	34.30	1016
60	32.96	41.89	56.70	45.00	80.40	86.40	35.25	33.30	1048	33.06	41.26	55.70	75.00	84.10	35.11	32.30	1013
61	33.11	41.99	56.80	45.00	80.50	86.60	35.40	33.30	1045	33.15	41.31	55.80	75.00	84.40	35.25	33.10	1013
62	33.25	42.09	56.90	45.10	80.60	87.20	35.50	34.00	1045	33.25	41.46	55.90	75.20	84.10	35.40	34.20	1016
63	33.35	42.24	56.90	45.20	80.60	87.10	35.60	33.10	1045	33.30	41.46	56.10	75.20	83.40	35.50	33.30	1013
64	33.45	42.29	57.10	45.30	80.60	86.60	35.79	32.40	1048	33.40	41.55	56.10	75.30	84.70	35.64	34.10	1016

65	33.50	42.33	57.20	45.40	80.60	86.30	35.89	31.90	1048	33.50	41.65	56.20	75.40	84.30	35.69	34.10	1013
66	33.64	42.43	57.20	45.50	80.60	86.90	35.99	33.30	1045	33.64	41.75	56.30	75.40	84.50	35.84	33.90	1016
67	33.69	42.53	57.20	45.50	80.60	87.00	36.13	34.20	1048	33.69	41.85	56.40	75.50	84.00	35.94	34.40	1016
68	33.79	42.63	57.50	45.70	80.80	87.30	36.23	33.70	1045	33.74	41.89	56.60	75.70	84.70	36.08	34.30	1013
69	33.89	42.72	57.50	45.80	80.80	87.00	36.38	32.90	1048	33.79	41.99	56.60	75.70	84.40	36.18	33.60	1013
70	33.94	42.82	57.70	45.90	80.90	86.60	36.47	33.50	1045	33.94	42.09	56.70	75.80	84.60	36.28	33.70	1013
71	34.03	42.97	57.70	46.00	80.90	87.30	36.57	33.30	1048	34.03	42.14	56.80	75.80	84.30	36.38	34.20	1013
72	34.08	43.02	57.80	46.10	80.90	87.10	36.67	33.70	1048	34.03	42.24	56.90	75.90	84.30	36.47	32.70	1016
73	34.23	43.02	57.80	46.10	80.90	87.80	36.77	34.20	1045	34.18	42.29	56.90	75.80	84.50	36.67	33.10	1016
74	34.42	43.21	57.90	46.20	80.90	87.50	36.91	33.10	1043	34.23	42.38	57.00	75.70	84.60	36.67	32.80	1016
75	34.42	43.26	58.00	46.30	81.00	86.90	37.01	32.90	1045	34.33	42.48	57.10	75.60	84.60	36.82	32.80	1013
76	34.42	43.31	58.10	46.50	81.00	86.90	37.16	32.60	1043	34.42	42.53	57.10	75.60	83.80	36.91	31.30	1013
77	34.47	43.41	58.10	46.50	81.00	86.80	37.26	33.10	1048	34.42	42.58	57.20	75.50	83.70	37.01	31.90	1013
78	34.62	43.46	58.20	46.60	81.00	87.60	37.40	33.70	1048	34.42	42.53	57.20	75.50	83.20	37.11	31.30	1013
79	34.72	43.60	58.30	46.70	81.10	87.30	37.45	33.90	1048	34.42	42.63	57.20	75.40	83.40	37.21	31.90	1013
80	34.81	43.75	58.40	46.80	81.20	87.20	37.50	33.60	1048	34.47	42.63	57.20	75.30	83.70	37.35	32.00	1013
81	34.86	43.80	58.40	46.90	81.30	87.00	37.65	34.10	1043	34.62	42.77	57.30	75.40	83.80	37.45	33.10	1013
82	34.91	43.80	58.50	47.00	81.30	87.00	37.74	32.30	1043	34.72	42.87	57.40	75.50	84.10	37.45	34.20	1013
83	34.91	43.85	58.60	47.10	81.20	87.30	37.84	32.30	1045	34.81	42.92	57.50	75.60	83.70	37.55	31.80	1013
84	35.01	43.90	58.60	47.20	81.30	86.60	37.89	33.60	1043	34.81	43.02	57.50	75.40	83.70	37.65	32.60	1016
85	35.11	43.95	58.60	47.20	81.40	86.90	38.04	34.10	1043	34.81	43.02	57.50	75.50	82.80	37.74	30.90	1013
86	35.21	44.04	58.80	47.20	81.40	87.30	38.13	34.00	1043	34.81	43.02	57.60	75.50	83.50	37.84	31.40	1016
87	35.25	44.14	58.80	47.30	81.40	87.20	38.23	32.90	1043	34.96	43.12	57.60	75.40	83.20	37.94	31.90	1013
88	35.40	44.19	58.90	47.40	81.30	87.40	38.33	34.40	1043	35.06	43.16	57.60	75.50	83.80	38.04	32.40	1013
89	35.40	44.24	59.00	47.50	81.40	87.80	38.43	33.60	1043	35.21	43.31	57.80	75.50	84.10	38.09	32.90	1013
90	35.50	44.34	59.10	47.50	81.40	87.30	38.53	33.20	1043	35.25	43.36	57.80	75.60	83.50	38.18	31.90	1013
91	35.55	44.38	59.10	47.60	81.50	87.30	38.62	32.90	1043	35.30	43.41	58.00	75.70	83.50	38.28	32.60	1013
92	35.60	44.38	59.20	47.70	81.50	86.70	38.67	34.10	1043	35.30	43.41	58.00	75.50	83.20	38.33	32.20	1013
93	35.69	44.48	59.20	47.70	81.50	87.90	38.77	33.90	1043	35.30	43.36	58.00	75.40	82.90	38.43	30.30	1013
94	35.84	44.63	59.20	47.80	81.60	88.40	38.87	33.70	1043	35.40	43.41	57.90	75.40	83.40	38.53	32.60	1013
95	35.94	44.68	59.30	47.80	81.60	87.40	39.01	33.90	1043	35.60	43.55	58.00	75.50	84.30	38.62	33.20	1013
96	35.94	44.73	59.40	48.00	81.70	87.10	39.06	32.50	1043	35.69	43.70	58.10	75.50	84.90	38.67	32.50	1013
97	35.94	44.82	59.50	48.00	81.50	87.40	39.11	33.10	1043	35.79	43.80	58.10	75.70	84.10	38.72	32.70	1013
98	36.04	44.87	59.60	48.10	81.50	87.50	39.21	34.00	1043	35.74	43.80	58.20	75.80	83.50	38.82	32.30	1013
99	36.08	44.92	59.50	48.10	81.40	87.00	39.36	33.70	1043	35.74	43.80	58.30	75.80	84.10	38.92	31.90	1013
100	36.23	44.97	59.50	48.10	81.50	87.80	39.40	33.20	1043	35.79	43.85	58.30	75.80	84.20	38.96	31.40	1013

101	36.33	45.07	59.70	48.30	81.50	87.50	39.50	34.10	1043	35.99	43.99	58.40	75.90	84.90	39.01	32.30	1013
102	36.38	45.12	59.80	48.30	81.60	87.50	39.60	32.80	1043	35.99	44.04	58.40	75.90	85.00	39.06	32.60	1013
103	36.38	45.17	59.80	48.50	81.60	86.60	39.70	33.20	1043	36.04	44.14	58.60	76.00	84.30	39.21	32.60	1013
104	36.43	45.21	59.80	48.50	81.60	87.00	39.75	33.60	1043	36.08	44.14	58.70	76.00	83.70	39.26	31.30	1013
105	36.52	45.36	59.80	48.50	81.70	87.00	39.79	33.10	1043	36.04	44.09	58.70	76.00	84.10	39.31	32.00	1013
106	36.62	45.36	60.00	48.60	81.80	87.40	39.89	33.40	1043	36.08	44.09	58.70	75.80	83.80	39.40	32.30	1013
107	36.72	45.46	60.10	48.60	81.80	87.20	39.99	33.90	1043	36.18	44.19	58.60	75.70	84.10	39.45	32.60	1013
108	36.77	45.56	60.10	48.80	81.90	87.20	40.09	33.00	1043	36.33	44.24	58.60	75.70	83.80	39.50	32.90	1013
109	36.77	45.56	60.20	48.80	81.80	86.70	40.14	32.60	1043	36.38	44.38	58.80	75.80	84.60	39.60	33.00	1013
110	36.77	45.65	60.20	48.90	81.80	87.30	40.19	33.70	1043	36.52	44.48	58.80	76.00	84.60	39.70	31.60	1013
111	36.87	45.70	60.20	48.90	81.90	88.10	40.28	34.20	1043	36.47	44.48	58.90	76.00	83.80	39.75	31.10	1013
112	36.96	45.75	60.30	48.90	82.00	88.10	40.33	33.70	1043	36.52	44.53	59.00	76.10	84.00	39.79	32.40	1013
113	37.06	45.85	60.40	49.00	82.10	87.50	40.43	33.10	1043	36.57	44.53	58.90	76.00	84.50	39.84	32.90	1013
114	37.06	45.90	60.50	49.10	82.10	87.70	40.58	34.40	1043	36.57	44.63	59.10	76.10	84.70	39.94	33.90	1013
115	37.11	45.95	60.50	49.10	82.00	87.60	40.58	32.60	1043	36.72	44.68	59.10	76.10	84.20	39.99	33.10	1013
116	37.16	45.95	60.50	49.20	82.00	87.70	40.63	33.50	1043	36.77	44.73	59.20	76.30	84.90	40.04	32.10	1013
117	37.21	45.95	60.60	49.30	82.10	88.30	40.72	33.70	1043	36.77	44.68	59.20	76.30	83.70	40.14	32.60	1013
118	37.35	46.09	60.60	49.40	82.10	88.10	40.77	34.60	1043	36.77	44.73	59.20	76.30	83.80	40.19	31.50	1013
119	37.45	46.14	60.80	49.40	82.30	88.10	40.87	33.20	1043	36.77	44.78	59.20	76.10	84.40	40.19	32.80	1013
120	37.50	46.24	60.80	49.50	82.30	87.70	40.97	33.60	1043	36.91	44.87	59.20	76.10	84.30	40.28	33.20	1013
121	37.45	46.24	60.80	49.50	82.20	87.70	40.97	32.40	1043	37.01	44.97	59.30	76.20	84.40	40.38	32.60	1013
122	37.50	46.29	60.90	49.60	82.10	87.40	41.06	33.20	1043	37.06	45.02	59.40	76.30	84.80	40.43	32.70	1013
123	37.60	46.34	60.90	49.70	82.30	88.40	41.11	33.50	1043	37.11	45.07	59.50	76.30	84.40	40.48	31.90	1013
124	37.65	46.44	60.90	49.70	82.30	88.10	41.21	34.70	1043	37.06	45.02	59.60	76.30	84.20	40.58	32.50	1013
125	37.70	46.48	60.90	49.70	82.30	89.00	41.26	33.60	1043	37.11	45.07	59.50	76.30	84.20	40.58	31.90	1013
126	37.79	46.53	61.10	49.70	82.30	88.10	41.36	33.20	1043	37.16	45.17	59.50	76.30	85.30	40.58	33.60	1013
127	37.79	46.53	61.10	49.90	82.30	88.60	41.36	33.30	1043	37.30	45.31	59.60	76.40	84.60	40.67	33.40	1016
128	37.74	46.53	61.20	50.00	82.40	88.50	41.46	33.60	1043	37.30	45.26	59.70	76.40	84.60	40.77	33.60	1013
129	37.79	46.53	61.20	50.00	82.30	88.10	41.50	33.20	1043	37.35	45.36	59.70	76.40	84.50	40.77	32.70	1013
130	37.84	46.58	61.20	50.00	82.30	88.00	41.55	33.10	1043	37.30	45.31	59.70	76.30	83.60	40.87	32.60	1013
131	37.94	46.63	61.20	50.00	82.30	88.20	41.65	33.90	1043	37.30	45.31	59.80	76.30	84.40	40.87	31.90	1013
132	37.94	46.68	61.30	50.10	82.30	88.30	41.70	34.10	1043	37.35	45.31	59.70	76.20	84.10	40.97	32.10	1013
133	38.04	46.78	61.40	50.10	82.50	88.40	41.75	34.40	1043	37.50	45.36	59.70	76.10	84.50	40.97	33.10	1013
134	38.13	46.88	61.40	50.10	82.60	87.40	41.80	33.10	1043	37.60	45.46	59.80	76.30	84.90	41.02	32.50	1013
135	38.18	46.92	61.50	50.20	82.60	88.20	41.89	33.20	1043	37.60	45.56	59.90	76.40	85.00	41.11	32.90	1013
136	38.18	46.92	61.50	50.20	82.50	87.80	41.94	32.80	1043	37.60	45.61	60.00	76.40	84.10	41.16	33.20	1013

137	38.23	46.92	61.60	50.30	82.60	87.50	41.99	33.30	1043	37.65	45.61	60.00	76.40	84.30	41.16	32.10	1013
138	38.28	46.97	61.60	50.40	82.60	87.50	42.04	33.90	1043	37.60	45.56	60.00	76.50	84.00	41.26	32.10	1013
139	38.38	47.02	61.60	50.40	82.60	88.40	42.14	33.60	1043	37.70	45.61	60.00	76.50	84.90	41.31	32.10	1013
140	38.48	47.12	61.60	50.50	82.60	88.00	42.14	35.20	1043	37.74	45.65	60.00	76.50	85.40	41.31	32.60	1013
141	38.53	47.12	61.70	50.50	82.60	88.20	42.19	33.80	1043	37.89	45.75	60.10	76.50	84.40	41.36	31.90	1016
142	38.48	47.12	61.80	50.60	82.70	88.00	42.29	33.60	1043	37.89	45.75	60.20	76.60	84.50	41.46	32.90	1013
143	38.48	47.17	61.80	50.60	82.60	88.00	42.33	33.00	1043	37.84	45.75	60.30	76.60	84.30	41.46	33.40	1013
144	38.57	47.22	61.80	50.60	82.70	88.40	42.38	34.00	1043	37.84	45.56	60.30	76.40	84.20	41.50	32.00	1016
145	38.67	47.27	61.80	50.70	82.80	89.20	42.43	33.60	1043	37.89	45.70	60.40	76.30	84.40	41.55	32.00	1013
146	38.77	47.31	61.90	50.60	82.80	88.30	42.53	33.40	1043	37.99	45.85	60.60	76.40	85.00	41.65	33.40	1016
147	38.77	47.31	62.00	50.80	82.90	88.00	42.53	34.20	1043	38.09	45.95	60.70	76.60	84.90	41.70	32.80	1016
148	38.77	47.36	62.00	50.80	83.00	88.40	42.63	32.20	1043	38.13	45.95	60.80	76.60	84.60	41.70	31.90	1019
149	38.82	47.41	62.00	50.80	83.00	88.80	42.63	34.50	1043	38.09	46.00	60.90	76.60	84.60	41.75	32.30	1016
150	38.82	47.46	62.00	50.80	82.90	88.50	42.72	33.70	1043	38.09	45.95	60.90	76.60	84.30	41.80	31.40	1016
151	38.92	47.51	62.00	50.90	83.00	89.40	42.77	33.60	1043	38.13	46.00	60.90	76.40	84.30	41.85	32.10	1016
152	38.96	47.66	62.10	50.90	83.00	89.10	42.82	34.40	1043	38.13	46.04	60.90	76.40	84.10	41.89	31.90	1016
153	38.96	47.66	62.20	51.00	83.00	88.20	42.92	33.20	1043	38.23	46.09	61.10	76.60	85.20	41.94	33.80	1019
154	38.96	47.71	62.20	51.00	82.90	87.50	42.92	32.60	1043	38.33	46.19	61.10	76.70	85.20	41.94	34.10	1019
155	38.96	47.71	62.30	51.10	82.90	87.50	42.97	33.20	1040	38.38	46.24	61.10	76.70	85.30	41.99	32.80	1019
156	38.96	47.71	62.30	51.20	82.90	87.80	43.02	33.20	1043	38.38	46.24	61.10	76.90	85.00	42.04	33.10	1019
157	38.96	47.71	62.30	51.10	82.70	87.50	43.07	32.10	1043	38.38	46.24	61.20	76.70	85.00	42.14	32.80	1022
158	39.01	47.71	62.30	51.10	82.90	87.90	43.12	33.20	1043	38.33	46.53	61.20	76.80	84.70	42.14	30.30	1019
159	39.16	47.80	62.30	51.20	83.00	88.70	43.12	33.60	1043	38.38	46.53	60.80	76.80	84.90	42.14	32.40	1019
160	39.16	47.80	62.40	51.20	83.00	88.50	43.21	34.30	1043	38.43	46.44	60.70	76.90	85.70	42.19	32.10	1019
161	39.21	47.90	62.40	51.20	83.00	87.40	43.21	32.90	1043	38.53	46.53	60.70	76.90	85.20	42.24	33.10	1019
162	39.26	47.90	62.40	51.30	83.00	87.40	43.31	33.00	1043	38.57	46.53	60.80	77.00	85.30	42.29	33.60	1019
163	39.26	48.00	62.40	51.40	83.10	87.40	43.31	32.90	1043	38.57	46.53	60.80	77.00	84.70	42.33	33.70	1019
164	39.26	47.95	62.40	51.30	83.00	88.00	43.31	33.20	1043	38.48	46.44	60.80	77.00	84.30	42.33	31.80	1019
165	39.36	47.95	62.40	51.40	83.10	89.10	43.41	33.20	1043	38.53	46.44	60.80	76.80	84.60	42.38	32.60	1016
166	39.40	48.05	62.40	51.40	83.20	88.90	43.46	33.40	1043	38.57	46.53	60.70	76.80	84.70	42.43	33.50	1022
167	39.50	48.10	62.60	51.50	83.20	88.60	43.51	33.40	1043	38.67	46.53	60.70	76.80	85.00	42.48	34.60	1019
168	39.45	48.14	62.70	51.50	83.30	88.20	43.51	33.60	1043	38.77	46.63	60.80	76.90	85.70	42.48	33.80	1022
169	39.45	48.14	62.70	51.60	83.30	87.80	43.55	33.90	1043	38.77	46.63	60.80	77.00	85.20	42.53	32.50	1019
170	39.50	47.95	62.70	51.60	83.30	87.70	43.60	33.30	1043	38.77	46.63	60.80	77.00	84.90	42.58	33.60	1019
171	39.55	47.71	62.60	51.60	83.40	88.00	43.65	33.40	1043	38.77	46.68	60.90	77.00	85.10	42.63	32.70	1019
172	39.65	48.10	62.60	51.60	83.40	87.80	43.70	33.10	1043	38.72	46.68	60.90	77.00	84.70	42.68	32.70	1016

173	39.65	48.19	62.70	51.70	83.40	88.40	43.70	33.60	1043	38.77	46.73	60.80	76.90	84.50	42.68	32.40	1019
174	39.65	48.29	62.80	51.70	83.40	88.50	43.75	33.50	1043	38.87	46.73	60.90	77.00	85.00	42.72	33.20	1019
175	39.70	48.24	62.80	51.70	83.30	89.00	43.75	33.30	1043	38.96	46.92	60.90	77.00	85.60	42.72	32.80	1019
176	39.75	48.34	62.80	51.80	83.30	88.60	43.80	33.60	1043	39.01	46.92	61.00	77.10	85.20	42.77	33.60	1016
177	39.75	48.34	62.90	51.80	83.50	88.10	43.90	32.80	1043	39.01	46.92	61.10	77.10	85.00	42.82	33.20	1019
178	39.75	48.49	62.90	51.80	83.40	87.50	43.90	32.60	1043	38.96	46.92	61.10	77.00	85.10	42.87	32.90	1019
179	39.75	48.49	62.90	51.80	83.40	88.10	43.90	33.30	1043	38.96	46.92	61.00	77.00	84.40	42.92	31.60	1019
180	39.75	48.49	62.90	51.90	83.40	87.80	43.95	34.10	1043	39.01	46.92	61.10	77.10	85.30	42.92	33.80	1019

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 0° (Data 3)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)
0	27.10	27.10	26.00	26.30	26.20	26.20	27.05	25.20	1021	27.10	27.10	26.60	26.90	26.80	27.00	25.40	980
1	27.20	29.79	40.40	27.20	46.80	48.30	27.05	29.30	1007	27.20	30.76	40.70	41.80	44.70	27.00	28.80	980
2	27.34	31.69	42.90	28.50	52.10	54.80	27.05	31.20	1015	27.25	32.91	43.70	46.50	50.60	27.05	28.70	980
3	27.44	32.67	44.30	29.60	55.90	59.80	27.05	31.30	1021	27.29	33.64	44.60	50.00	55.10	27.05	28.60	980
4	27.59	33.25	45.20	30.40	58.90	63.30	27.05	30.50	1023	27.49	33.98	45.10	52.90	59.20	27.10	29.00	980
5	27.78	33.74	45.80	31.30	61.40	66.10	27.15	29.50	1026	27.64	34.23	45.70	55.40	62.40	27.15	29.80	991
6	27.83	34.13	46.60	31.90	63.50	68.70	27.25	30.30	1023	27.78	34.52	46.10	57.70	65.40	27.29	30.30	991
7	27.98	34.47	47.10	32.60	65.40	71.20	27.34	32.00	1032	27.83	34.77	46.60	59.40	67.10	27.34	29.70	991
8	28.08	34.81	47.70	33.10	66.90	73.60	27.49	31.60	1032	27.93	35.01	46.90	60.80	68.90	27.49	30.00	991
9	28.17	35.11	48.20	33.70	68.40	74.60	27.59	32.00	1034	27.98	35.16	47.20	62.10	70.50	27.64	29.20	994
10	28.27	35.40	48.70	34.20	69.60	76.30	27.69	31.50	1040	28.08	35.30	47.40	63.10	71.50	27.73	30.00	994
11	28.37	35.64	49.10	34.80	70.60	76.30	27.88	31.10	1043	28.13	35.45	47.80	64.00	72.10	27.88	30.00	996
12	28.42	35.89	49.50	35.20	71.50	77.50	27.98	30.30	1043	28.22	35.60	48.00	64.90	73.40	27.98	30.50	999
13	28.47	36.13	49.90	35.70	72.40	79.20	28.08	32.60	1043	28.27	35.74	48.20	65.60	74.20	28.13	30.40	996
14	28.66	36.38	50.10	36.10	73.10	79.80	28.27	32.00	1043	28.32	35.89	48.30	66.10	75.00	28.22	29.90	996
15	28.76	36.52	50.50	36.50	73.70	80.30	28.42	32.70	1043	28.37	35.99	48.70	66.90	75.20	28.37	30.10	996
16	28.81	36.77	50.80	36.80	74.30	80.70	28.56	31.10	1043	28.47	35.99	48.80	67.30	75.40	28.52	30.00	999
17	28.86	36.91	51.10	37.20	74.70	80.70	28.71	31.30	1043	28.52	36.18	48.90	67.70	76.30	28.66	30.60	996
18	28.96	37.06	51.30	37.60	75.00	81.50	28.81	31.50	1043	28.61	36.28	49.10	68.10	76.10	28.81	30.60	999
19	29.00	37.26	51.50	37.80	75.50	82.30	29.00	32.40	1043	28.76	36.38	49.20	68.40	76.70	28.91	30.00	991
20	29.15	37.35	51.70	38.20	75.90	82.60	29.20	33.10	1043	28.81	36.47	49.40	68.60	77.20	29.10	30.50	999
21	29.30	37.55	52.00	38.50	76.30	82.70	29.35	32.90	1043	28.86	36.57	49.60	69.00	77.20	29.25	30.60	999
22	29.35	37.60	52.20	38.80	76.60	82.50	29.54	32.90	1043	28.91	36.72	49.70	69.20	77.20	29.35	29.50	999
23	29.44	37.79	52.30	38.90	76.70	82.00	29.64	30.30	1043	29.00	36.77	49.80	69.40	77.60	29.54	30.80	999
24	29.54	37.94	52.50	39.20	76.90	82.60	29.83	30.90	1043	29.05	36.87	49.90	69.60	78.10	29.64	30.30	999
25	29.64	38.09	52.80	39.40	77.20	83.40	29.98	33.60	1045	29.15	36.96	50.10	69.70	78.60	29.79	30.20	1004
26	29.74	38.23	53.00	39.70	77.50	84.10	30.18	33.70	1043	29.25	37.16	50.30	69.90	78.60	29.93	30.60	1018
27	29.88	38.33	53.10	39.90	77.70	83.20	30.37	31.80	1043	29.35	37.26	50.50	70.10	79.20	30.03	30.40	1021
28	29.98	38.48	53.20	40.10	77.80	83.20	30.47	32.20	1043	29.44	37.35	50.60	70.30	79.60	30.22	30.50	1018

29	30.03	38.57	53.40	40.30	77.90	82.90	30.66	29.70	1045	29.54	37.55	50.80	70.50	79.40	30.37	30.50	1018
30	30.13	38.77	53.60	40.50	78.00	83.20	30.81	31.20	1048	29.54	37.55	50.90	70.70	79.90	30.47	31.00	1021
31	30.27	38.92	53.70	40.80	78.20	84.40	31.01	33.20	1045	29.69	37.60	50.90	70.80	79.50	30.62	29.50	1021
32	30.42	39.06	53.80	41.00	78.50	84.20	31.20	33.10	1043	29.74	37.74	51.10	70.90	80.20	30.76	31.00	1021
33	30.52	39.16	54.00	41.10	78.60	84.70	31.35	33.00	1045	29.88	37.84	51.10	71.10	80.10	30.91	31.70	1021
34	30.66	39.31	54.20	41.20	78.70	84.10	31.49	31.90	1045	30.03	37.94	51.40	71.50	80.70	31.05	31.80	1023
35	30.71	39.40	54.30	41.40	78.80	84.10	31.69	31.90	1043	30.18	38.13	51.40	71.80	80.40	31.20	31.80	1021
36	30.71	39.40	54.50	41.50	78.80	84.40	31.84	32.70	1045	30.27	38.28	51.50	72.00	81.50	31.30	32.40	1021
37	30.86	39.50	54.50	41.80	79.00	84.50	31.98	32.90	1045	30.42	38.33	51.70	72.20	81.00	31.45	31.60	1021
38	30.96	39.60	54.60	41.90	79.20	84.30	32.18	32.40	1043	30.52	38.48	51.80	72.30	81.30	31.59	32.10	1021
39	31.10	39.84	54.80	42.00	79.20	84.60	32.32	33.20	1048	30.62	38.57	51.90	72.60	81.20	31.74	33.40	1018
40	31.25	39.99	55.00	42.20	79.40	84.80	32.47	32.50	1048	30.71	38.72	52.00	72.70	81.40	31.84	32.40	1021
41	31.35	40.09	55.10	42.30	79.50	84.50	32.62	33.20	1048	30.86	38.82	52.10	72.90	81.70	31.98	31.80	1023
42	31.40	40.14	55.20	42.50	79.50	84.60	32.76	31.20	1048	30.91	38.96	52.20	73.00	82.00	32.08	32.90	1026
43	31.40	40.28	55.30	42.60	79.50	84.40	32.91	30.10	1048	31.01	39.01	52.30	73.10	81.70	32.23	33.60	1021
44	31.49	40.38	55.40	42.80	79.60	85.40	33.11	32.40	1040	31.10	39.11	52.40	73.10	82.20	32.37	32.80	1021
45	31.59	40.43	55.40	42.80	79.50	85.20	33.25	33.70	1034	31.25	39.21	52.50	73.20	82.20	32.57	33.30	1023
46	31.74	40.58	55.50	42.90	79.50	85.00	33.35	33.30	1034	31.30	39.36	52.70	73.50	82.40	32.67	32.10	1021
47	31.84	40.67	55.60	43.10	79.60	85.00	33.54	31.90	1037	31.40	39.45	52.70	73.50	81.90	32.76	32.90	1023
48	31.88	40.72	55.60	43.20	79.50	85.00	33.69	31.50	1032	31.49	39.55	52.90	73.50	82.30	32.91	33.20	1021
49	31.98	40.82	55.70	43.30	79.50	84.40	33.84	31.70	1032	31.59	39.65	52.90	73.50	81.70	33.06	33.40	1018
50	32.03	40.87	55.80	43.40	79.50	84.40	33.94	32.30	1034	31.69	39.75	53.10	73.60	82.20	33.15	33.20	1021
51	32.08	40.92	55.90	43.40	79.50	84.70	34.13	31.60	1034	31.84	39.84	53.20	73.70	82.70	33.30	32.80	1021
52	32.23	41.02	56.00	43.50	79.50	84.00	34.28	33.40	1034	31.88	39.89	53.20	73.70	81.50	33.45	32.30	1021
53	32.37	41.11	56.10	43.70	79.70	85.50	34.38	33.60	1037	31.88	39.94	53.30	73.60	81.20	33.54	32.80	1018
54	32.47	41.26	56.20	43.70	79.70	84.90	34.47	32.60	1034	32.03	40.04	53.30	73.60	82.40	33.64	32.60	1018
55	32.57	41.36	56.30	43.80	79.80	85.00	34.62	32.40	1032	32.08	40.14	53.40	73.70	81.90	33.84	33.60	1021
56	32.67	41.46	56.40	44.00	79.80	84.20	34.77	31.40	1034	32.23	40.28	53.50	73.90	82.80	33.94	32.60	1021
57	32.76	41.55	56.40	44.10	79.70	84.70	34.91	32.50	1034	32.32	40.38	53.60	73.90	83.20	34.03	32.90	1018
58	32.81	41.65	56.60	44.20	79.70	84.50	35.06	31.00	1032	32.42	40.43	53.70	73.90	83.00	34.18	32.20	1018
59	32.86	41.70	56.60	44.30	79.60	84.70	35.16	31.10	1032	32.47	40.53	53.80	74.00	82.40	34.28	32.50	1018
60	32.96	41.85	56.70	44.30	79.70	84.50	35.30	32.40	1034	32.57	40.63	53.90	73.90	82.10	34.38	32.40	1021
61	33.06	41.89	56.80	44.40	79.70	84.70	35.45	32.40	1037	32.62	40.67	54.00	74.00	82.30	34.52	32.70	1018
62	33.25	41.99	56.90	44.50	80.00	85.00	35.55	32.60	1037	32.76	40.77	54.00	74.00	82.80	34.57	32.60	1018
63	33.30	42.14	57.10	44.80	80.00	85.00	35.64	31.30	1037	32.86	40.87	54.10	74.10	83.20	34.72	33.40	1018
64	33.40	42.24	57.10	44.80	79.90	84.90	35.84	32.50	1032	32.86	40.97	54.10	74.10	83.30	34.86	33.10	1018

65	33.45	42.29	57.10	44.80	79.90	84.90	35.89	32.50	1037	32.96	41.02	54.30	74.30	83.50	34.96	33.20	1018
66	33.54	42.38	57.30	44.90	79.90	85.00	36.08	30.90	1040	33.06	41.06	54.40	74.30	82.10	35.06	31.90	1018
67	33.64	42.43	57.40	45.10	80.00	85.20	36.18	33.40	1040	33.15	41.16	54.50	74.30	83.30	35.16	32.60	1013
68	33.69	42.53	57.50	45.20	80.30	85.40	36.28	33.60	1037	33.15	41.21	54.50	74.40	82.80	35.25	33.40	1018
69	33.89	42.63	57.50	45.20	80.40	84.90	36.38	33.20	1040	33.25	41.31	54.60	74.30	82.90	35.40	32.80	1015
70	33.98	42.68	57.70	45.40	80.40	84.90	36.47	32.50	1037	33.40	41.46	54.70	74.60	83.00	35.50	32.50	1018
71	34.03	42.82	57.70	45.40	80.40	84.90	36.67	31.40	1040	33.50	41.50	54.80	74.60	82.60	35.60	32.50	1021
72	34.03	42.97	57.80	45.50	80.40	85.10	36.72	31.40	1037	33.54	41.55	54.80	74.40	82.70	35.69	32.60	1013
73	34.08	43.02	57.80	45.70	80.40	85.30	36.82	32.80	1040	33.64	41.60	54.90	74.30	82.40	35.84	33.20	1015
74	34.23	43.02	57.90	45.70	80.50	86.00	36.96	33.20	1040	33.69	41.70	54.90	74.40	82.50	35.94	32.40	1013
75	34.33	43.16	58.00	45.70	80.70	86.20	37.06	33.00	1037	33.84	41.85	55.10	74.40	83.30	36.04	33.40	1015
76	34.42	43.26	58.00	45.80	80.80	86.10	37.21	33.60	1040	33.98	41.89	55.20	74.60	82.80	36.13	33.10	1015
77	34.47	43.31	58.20	46.00	80.90	85.20	37.26	31.70	1043	33.98	41.99	55.30	74.60	82.70	36.23	32.60	1015
78	34.52	43.41	58.30	46.10	80.90	85.60	37.45	31.10	1037	34.03	42.04	55.30	74.40	83.00	36.33	32.60	1013
79	34.52	43.46	58.40	46.10	80.90	85.20	37.45	33.60	1040	34.03	42.04	55.40	74.40	82.70	36.38	32.90	1013
80	34.57	43.51	58.40	46.20	81.00	85.50	37.55	32.90	1040	34.08	42.09	55.40	74.40	82.90	36.57	33.30	1015
81	34.72	43.60	58.40	46.20	80.90	85.80	37.65	33.90	1043	34.28	42.24	55.50	74.50	82.60	36.62	33.20	1018
82	34.81	43.75	58.60	46.40	81.20	86.00	37.79	33.50	1040	34.42	42.33	55.60	74.60	83.10	36.72	33.20	1015
83	35.01	43.80	58.60	46.40	81.20	85.70	37.84	33.30	1043	34.42	42.43	55.60	74.80	83.50	36.82	33.10	1021
84	35.06	43.85	58.80	46.60	81.30	86.10	37.99	32.40	1037	34.42	42.58	55.80	74.90	82.80	36.91	32.70	1018
85	35.11	43.90	58.90	46.70	81.20	85.30	38.09	32.10	1040	34.52	42.58	55.90	74.90	83.30	37.01	32.30	1021
86	35.16	43.99	58.90	46.80	81.20	85.50	38.18	32.10	1043	34.62	42.63	55.90	74.90	82.80	37.06	33.00	1018
87	35.16	43.90	59.00	46.80	81.20	86.10	38.23	32.80	1043	34.72	42.77	56.00	75.00	83.00	37.16	33.30	1021
88	35.25	44.09	58.90	46.80	81.20	85.70	38.33	31.50	1040	34.81	42.82	56.10	75.00	83.00	37.26	33.40	1015
89	35.35	44.14	59.00	46.90	81.30	86.00	38.48	32.50	1037	34.81	42.87	56.10	74.90	83.00	37.45	33.50	1021
90	35.55	44.24	59.20	47.00	81.40	85.80	38.57	32.80	1040	34.86	42.97	56.20	75.00	83.30	37.45	33.40	1018
91	35.55	44.38	59.20	47.10	81.50	85.20	38.62	32.40	1040	34.96	42.97	56.20	75.00	83.60	37.55	32.20	1021
92	35.60	44.43	59.40	47.20	81.50	85.60	38.72	32.60	1037	35.06	43.02	56.30	75.20	83.50	37.60	32.80	1021
93	35.60	44.43	59.40	47.20	81.40	85.50	38.87	32.90	1040	35.16	43.12	56.40	75.40	83.30	37.70	32.80	1018
94	35.69	44.58	59.40	47.20	81.40	85.60	38.96	32.50	1037	35.16	43.12	56.50	75.30	82.70	37.79	32.30	1021
95	35.79	44.63	59.40	47.40	81.40	86.00	39.01	33.60	1040	35.21	43.21	56.50	75.30	83.00	37.84	33.20	1021
96	35.94	44.73	59.50	47.40	81.50	86.30	39.11	32.90	1040	35.21	43.26	56.40	75.40	83.70	37.99	32.60	1021
97	35.99	44.68	59.50	47.50	81.60	86.40	39.16	32.70	1040	35.35	43.36	56.40	75.30	83.00	38.04	32.60	1018
98	35.99	44.78	59.70	47.50	81.50	85.00	39.26	31.40	1037	35.50	43.41	56.50	75.40	83.80	38.13	32.80	1021
99	36.04	44.82	59.80	47.70	81.50	86.30	39.36	32.40	1040	35.55	43.41	56.70	75.50	84.10	38.23	33.90	1021
100	36.08	44.97	59.80	47.70	81.50	86.20	39.45	32.30	1037	35.50	43.46	56.80	75.50	83.00	38.28	32.60	1021

101	36.13	44.97	60.00	47.80	81.50	86.30	39.50	33.90	1040	35.60	43.51	56.80	75.40	83.20	38.33	33.10	1021
102	36.28	44.97	60.00	47.90	81.70	86.60	39.60	34.00	1043	35.60	43.55	56.80	75.40	83.70	38.43	32.90	1021
103	36.38	45.12	60.00	47.90	81.80	86.40	39.70	33.10	1043	35.74	43.70	56.90	75.50	84.10	38.53	32.60	1023
104	36.47	45.26	60.10	48.00	81.80	86.70	39.79	32.60	1043	35.84	43.80	57.00	75.50	83.90	38.62	32.90	1023
105	36.52	45.31	60.20	48.10	81.80	86.30	39.79	32.70	1040	35.94	43.80	57.00	75.70	84.30	38.67	32.60	1021
106	36.52	45.36	60.30	48.20	81.80	86.70	39.94	32.30	1043	35.99	43.90	57.10	75.80	84.20	38.77	33.10	1023
107	36.57	45.41	60.30	48.20	81.70	85.80	39.99	33.60	1040	35.99	43.95	57.20	75.70	83.30	38.82	33.30	1021
108	36.62	45.51	60.40	48.30	81.80	86.10	40.14	32.60	1043	35.99	43.99	57.20	75.60	84.20	38.87	33.30	1023
109	36.72	45.56	60.40	48.30	81.90	86.70	40.19	32.90	1043	36.08	43.99	57.20	75.70	83.90	39.01	33.00	1021
110	36.82	45.65	60.50	48.50	82.10	86.70	40.23	32.30	1043	36.18	44.14	57.30	75.80	84.40	39.01	32.80	1023
111	36.91	45.70	60.60	48.50	82.20	86.60	40.38	33.00	1043	36.23	44.19	57.40	76.00	84.60	39.11	32.40	1023
112	36.91	45.75	60.60	48.60	82.10	86.30	40.38	32.20	1040	36.33	44.24	57.40	76.00	83.60	39.21	32.20	1026
113	36.91	45.65	60.60	48.60	82.00	86.40	40.48	32.30	1040	36.28	44.24	57.50	76.00	83.80	39.26	31.90	1021
114	37.01	45.75	60.70	48.60	82.20	86.40	40.58	33.20	1043	36.38	44.29	57.40	75.70	83.60	39.31	32.70	1007
115	37.06	45.80	60.80	48.70	82.20	87.00	40.63	33.80	1040	36.38	44.34	57.40	75.80	84.40	39.40	32.70	1010
116	37.16	45.95	60.80	48.70	82.30	86.70	40.67	34.10	1040	36.57	44.38	57.40	75.80	84.10	39.50	33.60	1010
117	37.26	46.04	60.90	48.80	82.30	86.80	40.77	34.30	1043	36.57	44.43	57.50	75.80	83.50	39.55	33.60	1010
118	37.26	46.04	60.90	48.90	82.40	86.70	40.82	32.80	1037	36.57	44.48	57.50	75.80	83.60	39.60	32.30	1007
119	37.30	46.14	61.10	49.00	82.40	86.40	40.92	32.10	1043	36.57	44.48	57.50	75.70	84.60	39.70	33.10	1010
120	37.30	46.14	61.00	49.10	82.30	86.50	40.97	32.90	1037	36.72	44.58	57.60	75.70	84.00	39.79	31.90	1010
121	37.40	46.19	61.00	49.10	82.30	86.70	41.06	32.20	1037	36.77	44.63	57.70	75.80	84.30	39.79	32.60	1013
122	37.50	46.29	61.10	49.10	82.30	86.90	41.11	34.10	1037	36.82	44.68	57.80	75.90	84.30	39.89	32.70	1007
123	37.60	46.34	61.10	49.10	82.40	86.70	41.16	33.70	1037	36.87	44.73	57.80	75.90	83.20	39.94	32.30	1013
124	37.60	46.34	61.30	49.20	82.50	86.50	41.26	34.30	1034	36.87	44.73	57.90	75.80	83.10	39.99	31.60	1010
125	37.65	46.44	61.30	49.30	82.40	86.50	41.31	34.00	1037	36.87	44.73	57.90	75.70	83.50	40.09	33.10	1007
126	37.70	46.48	61.40	49.40	82.50	86.40	41.41	33.00	1032	36.91	44.78	57.90	75.80	84.30	40.19	32.80	1010
127	37.70	46.48	61.40	49.40	82.30	86.40	41.46	32.60	1034	37.06	44.87	57.90	75.80	83.90	40.19	32.50	1007
128	37.74	46.53	61.40	49.50	82.40	86.80	41.50	34.30	1037	37.11	44.92	57.90	75.90	84.20	40.23	33.20	1010
129	37.84	46.53	61.50	49.50	82.40	87.30	41.55	33.70	1032	37.16	44.97	58.00	76.00	84.00	40.28	33.30	1013
130	37.94	46.63	61.40	49.50	82.40	87.50	41.65	34.50	1032	37.16	45.02	58.00	76.00	83.70	40.38	33.00	1010
131	37.99	46.73	61.50	49.50	82.60	87.10	41.75	33.60	1032	37.21	45.07	58.00	76.10	84.10	40.38	32.60	1007
132	37.99	46.73	61.70	49.70	82.60	86.70	41.75	32.40	1034	37.26	45.17	58.10	76.10	84.10	40.53	33.40	1007
133	38.04	46.78	61.70	49.70	82.50	86.70	41.80	33.20	1029	37.35	45.21	58.20	76.20	84.30	40.58	33.60	1007
134	38.09	46.78	61.70	49.70	82.50	86.70	41.89	32.80	1034	37.40	45.21	58.10	76.20	84.30	40.58	31.90	1010
135	38.13	46.88	61.70	49.80	82.60	87.00	41.94	33.60	1034	37.45	45.26	58.20	76.20	83.50	40.63	32.60	1010
136	38.18	46.88	61.70	49.80	82.70	87.50	42.04	33.50	1032	37.40	45.17	58.30	76.10	83.40	40.67	32.90	1010

137	38.33	46.97	61.80	49.90	82.70	86.90	42.09	33.10	1032	37.45	45.31	58.20	76.00	84.10	40.77	33.00	1010
138	38.38	47.02	61.90	50.00	82.80	87.40	42.14	33.10	1034	37.60	45.36	58.30	76.20	84.60	40.77	32.80	1010
139	38.38	47.07	62.00	50.00	82.90	86.90	42.14	31.30	1032	37.60	45.41	58.40	76.20	83.90	40.87	33.90	1010
140	38.38	47.12	62.00	50.00	82.70	86.90	42.24	32.70	1032	37.70	45.46	58.40	76.20	84.80	40.92	33.30	1013
141	38.38	47.12	62.00	50.10	82.70	86.90	42.29	32.60	1029	37.65	45.51	58.60	76.30	83.80	40.97	32.90	1010
142	38.38	47.17	62.00	50.10	82.70	86.90	42.33	34.10	1034	37.70	45.51	58.50	76.30	83.90	41.02	33.10	1015
143	38.48	47.27	62.10	50.10	82.70	87.40	42.43	33.80	1032	37.70	45.56	58.60	76.30	83.50	41.06	32.10	1013
144	38.62	47.31	62.10	50.10	82.80	86.90	42.48	33.20	1032	37.74	45.56	58.50	76.20	83.50	41.11	32.40	1013
145	38.67	47.31	62.20	50.30	82.90	87.10	42.53	32.30	1034	37.84	45.65	58.60	76.30	84.50	41.16	32.20	1015
146	38.62	47.36	62.20	50.30	82.80	86.90	42.58	33.40	1029	37.89	45.75	58.60	76.20	84.50	41.21	33.20	1013
147	38.67	47.41	62.20	50.30	82.80	86.10	42.68	32.70	1029	37.94	45.75	58.80	76.30	84.40	41.26	33.00	1010
148	38.67	47.36	62.30	50.30	82.80	86.70	42.68	32.60	1032	37.99	45.85	58.80	76.30	84.60	41.31	33.70	1015
149	38.72	47.46	62.30	50.50	82.90	86.80	42.72	33.30	1037	38.04	45.85	58.80	76.30	85.20	41.36	33.20	1015
150	38.82	47.46	62.30	50.40	83.00	87.40	42.82	34.50	1032	38.09	45.90	58.90	76.40	84.60	41.41	32.90	1010
151	38.87	47.51	62.30	50.50	83.00	86.90	42.87	34.10	1032	38.09	45.80	58.90	76.30	84.20	41.46	32.80	1010
152	38.92	47.56	62.40	50.50	83.00	87.00	42.92	33.40	1032	38.13	45.90	58.90	76.30	84.10	41.50	33.00	1013
153	38.92	47.61	62.50	50.60	82.90	86.90	42.97	32.20	1032	38.18	45.95	58.90	76.20	84.10	41.60	33.40	1013
154	38.92	47.61	62.40	50.60	82.90	86.80	42.97	32.40	1032	38.23	45.95	58.90	76.30	84.50	41.60	32.50	1010
155	38.96	47.71	62.40	50.60	82.90	86.30	43.02	32.20	1032	38.28	46.04	58.90	76.30	84.60	41.65	32.90	1013
156	39.01	47.71	62.40	50.70	82.90	86.90	43.12	33.60	1032	38.33	46.09	59.10	76.40	84.20	41.70	33.30	1013
157	39.06	47.75	62.50	50.70	83.00	87.50	43.16	32.40	1032	38.33	46.14	59.10	76.40	84.60	41.75	33.00	1013
158	39.16	47.75	62.60	50.70	83.00	86.70	43.21	33.60	1032	38.33	46.14	59.10	76.60	84.10	41.80	32.00	1010
159	39.16	47.80	62.70	50.80	83.10	87.10	43.26	32.70	1032	38.33	46.14	59.10	76.40	83.80	41.80	31.90	1013
160	39.16	47.85	62.70	50.80	82.90	86.90	43.31	31.00	1032	38.38	46.14	59.10	76.50	84.60	41.89	33.40	1015
161	39.16	47.85	62.70	50.90	82.90	87.00	43.31	32.00	1032	38.43	46.24	59.20	76.60	84.30	41.94	32.90	1010
162	39.16	47.85	62.70	50.90	82.90	86.50	43.36	33.90	1032	38.53	46.24	59.20	76.60	84.60	41.94	33.30	1010
163	39.26	47.95	62.80	50.90	83.00	87.70	43.41	34.40	1034	38.53	46.24	59.20	76.50	85.00	42.04	33.30	1010
164	39.36	48.00	62.70	50.90	83.00	86.90	43.46	33.40	1032	38.53	46.24	59.20	76.50	83.90	42.09	32.60	1013
165	39.36	48.05	62.80	51.00	83.10	87.20	43.51	32.40	1032	38.53	46.34	59.20	76.40	84.10	42.09	32.30	1015
166	39.40	48.05	62.90	51.10	83.20	86.90	43.55	32.10	1032	38.57	46.34	59.20	76.40	84.70	42.09	33.20	1015
167	39.45	48.10	62.90	51.10	83.10	86.90	43.60	31.80	1032	38.62	46.39	59.40	76.60	85.20	42.14	33.90	1010
168	39.40	48.05	62.90	51.10	83.00	86.70	43.65	32.10	1034	38.72	46.44	59.40	76.60	85.50	42.24	33.90	1013
169	39.45	48.10	62.90	51.10	82.90	87.10	43.70	32.60	1032	38.77	46.53	59.40	76.60	85.00	42.29	32.80	1010
170	39.50	48.19	63.00	51.20	83.10	87.50	43.70	33.60	1034	38.72	46.48	59.40	76.40	83.70	42.29	33.40	1015
171	39.60	48.29	63.00	51.20	83.20	87.20	43.75	33.00	1032	38.77	46.53	59.40	76.50	84.40	42.33	32.80	1013
172	39.65	48.29	63.10	51.20	83.20	87.00	43.80	33.20	1032	38.77	46.48	59.40	76.60	85.20	42.38	32.40	1015

173	39.65	48.24	63.10	51.30	83.20	86.90	43.85	34.40	1032	38.87	46.58	59.40	76.60	85.10	42.43	33.90	1010
174	39.65	48.24	63.10	51.30	83.20	86.70	43.85	32.90	1032	38.92	46.63	59.50	76.70	84.50	42.43	31.90	1010
175	39.60	48.14	63.20	51.40	83.20	86.70	43.90	32.40	1034	38.87	46.58	59.50	76.70	83.90	42.53	32.90	1015
176	39.65	48.29	63.20	51.40	83.20	86.20	43.95	33.00	1034	38.92	46.63	59.50	76.70	84.50	42.53	32.30	1015
177	39.75	48.34	63.20	51.40	83.30	86.90	43.99	33.30	1034	38.96	46.68	59.50	76.70	84.00	42.53	32.80	1018
178	39.84	48.39	63.30	51.40	83.40	87.40	43.99	33.20	1032	39.01	46.73	59.50	76.70	84.60	42.58	33.20	1015
179	39.84	48.44	63.40	51.50	83.50	87.10	44.09	32.60	1034	39.11	46.78	59.50	76.80	84.20	42.63	33.20	1015
180	39.79	48.44	63.50	51.50	83.40	87.30	44.09	32.80	1032	39.11	46.88	59.70	76.80	84.10	42.68	32.30	1015

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 10° (Data 1)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)
0	27.20	27.20	26.70	27.80	26.90	26.80	27.00	25.90	985	27.10	27.10	26.60	27.00	26.90	27.05	25.50	975
1	27.34	30.13	39.40	28.70	47.60	44.50	27.00	30.20	985	27.29	30.91	44.00	41.60	46.10	27.05	30.30	988
2	27.39	31.93	41.70	29.80	52.60	50.40	27.00	29.30	991	27.39	33.11	47.30	46.60	51.40	27.00	30.00	994
3	27.44	32.86	42.80	30.80	56.00	56.00	27.00	30.30	1034	27.49	33.84	48.10	50.60	55.10	27.00	29.20	996
4	27.59	33.30	44.00	31.60	58.90	60.30	27.05	31.10	964	27.64	34.18	48.70	54.00	58.40	26.95	30.00	1002
5	27.78	33.74	44.20	32.30	61.20	63.60	27.10	31.70	1002	27.78	34.42	49.40	56.80	61.70	27.15	31.10	1004
6	27.98	34.18	44.80	32.90	63.10	65.60	27.20	31.80	1002	28.03	34.77	49.70	59.20	64.00	27.29	31.60	1007
7	28.03	34.52	45.30	33.50	64.90	68.10	27.29	31.30	1007	28.17	35.01	50.10	61.20	65.80	27.39	31.10	1007
8	28.13	34.81	45.80	34.10	66.30	70.30	27.39	31.60	1010	28.22	35.30	50.60	62.90	67.40	27.54	29.80	1007
9	28.17	35.06	46.20	34.50	67.50	71.40	27.59	31.10	1007	28.27	35.50	51.00	64.40	68.90	27.69	29.80	1013
10	28.27	35.25	46.60	35.00	68.60	72.80	27.69	31.60	1007	28.37	35.69	51.20	65.50	69.20	27.83	31.30	1010
11	28.37	35.50	46.90	35.50	69.50	73.60	27.88	32.10	1010	28.47	35.84	51.50	66.80	70.30	27.93	32.40	1015
12	28.47	35.74	47.20	35.90	70.40	74.20	27.98	31.80	1010	28.56	35.99	51.80	67.80	71.00	28.08	31.80	1015
13	28.47	35.94	47.50	36.30	71.10	75.80	28.08	31.80	1013	28.66	36.18	52.10	68.70	71.70	28.17	31.40	1015
14	28.56	36.13	47.70	36.60	71.70	76.30	28.27	32.10	1010	28.76	36.38	52.40	69.40	72.60	28.37	31.10	1018
15	28.76	36.28	47.90	37.00	72.30	76.90	28.37	32.50	1013	28.76	36.43	52.40	70.00	73.10	28.47	30.10	1018
16	28.81	36.43	48.20	37.30	72.80	77.60	28.52	32.30	1013	28.86	36.52	52.50	70.40	73.50	28.66	31.30	1021
17	28.91	36.62	48.50	37.60	73.20	77.70	28.66	32.40	1013	28.96	36.67	52.70	71.10	74.00	28.81	33.20	1021
18	28.96	36.77	48.70	37.90	73.70	77.70	28.86	32.10	1013	29.05	36.82	52.90	71.60	74.40	28.96	33.20	1021
19	29.00	36.91	48.90	38.20	74.00	78.40	29.00	32.50	1013	29.20	36.96	53.20	72.00	75.20	29.10	32.30	1021
20	29.10	37.06	49.20	38.50	74.50	79.50	29.20	32.00	1032	29.30	37.06	53.40	72.30	75.00	29.25	30.30	1021
21	29.25	37.26	49.40	38.70	74.90	79.50	29.35	32.00	1029	29.30	37.16	53.50	72.50	74.90	29.44	31.50	1021
22	29.35	37.45	49.60	39.00	75.10	79.40	29.54	32.30	1029	29.39	37.26	53.60	72.90	75.20	29.64	32.40	1021
23	29.44	37.55	49.70	39.30	75.50	79.50	29.64	33.40	1032	29.54	37.35	53.70	73.10	75.30	29.74	32.60	1021
24	29.54	37.65	49.90	39.50	75.70	80.00	29.83	31.80	1029	29.64	37.50	53.80	73.50	75.90	29.88	33.70	1021
25	29.54	37.74	50.00	39.70	75.90	80.70	29.98	33.00	1026	29.74	37.55	54.00	73.80	76.40	30.03	31.60	1021
26	29.74	37.94	50.20	39.80	76.00	81.20	30.13	33.40	1029	29.83	37.70	54.10	73.90	76.00	30.22	31.30	1021
27	29.83	38.04	50.30	40.10	76.30	81.60	30.27	33.40	1029	29.83	37.74	54.30	74.00	75.80	30.37	32.00	1021
28	29.93	38.18	50.50	40.30	76.40	81.50	30.42	33.20	1029	29.98	37.89	54.50	74.20	76.10	30.52	30.80	1023

29	30.03	38.33	50.70	40.50	76.70	81.80	30.62	33.90	1032	30.08	37.94	54.50	74.40	76.70	30.66	32.00	1023
30	30.08	38.38	50.80	40.70	76.80	81.20	30.81	33.10	1026	30.18	38.09	54.60	74.50	76.30	30.81	33.20	1023
31	30.13	38.48	50.90	40.80	76.90	81.90	30.96	32.20	1029	30.32	38.13	54.60	74.70	76.40	31.01	31.60	1023
32	30.27	38.57	51.10	41.00	77.10	81.60	31.15	31.80	1029	30.42	38.28	54.80	74.70	76.70	31.15	31.10	1021
33	30.42	38.72	51.10	41.20	77.20	82.10	31.25	33.60	1029	30.47	38.33	54.90	74.70	76.90	31.30	31.10	1023
34	30.52	38.82	51.30	41.30	77.40	81.70	31.40	33.20	1026	30.52	38.43	55.00	74.70	77.00	31.45	30.30	1021
35	30.62	38.87	51.40	41.40	77.50	81.60	31.59	32.30	1026	30.57	38.53	55.10	74.90	76.90	31.54	32.60	1023
36	30.71	39.06	51.60	41.60	77.50	81.90	31.74	32.60	1026	30.71	38.62	55.20	75.00	77.00	31.74	32.90	1023
37	30.71	39.11	51.80	41.80	77.70	81.80	31.88	32.60	1026	30.91	38.72	55.40	75.20	77.40	31.84	33.10	1023
38	30.86	39.21	51.90	41.90	77.70	82.10	32.03	33.10	1029	30.96	38.92	55.40	75.30	77.30	31.98	32.60	1023
39	30.91	39.31	52.00	42.00	77.70	82.00	32.18	33.00	1026	31.10	39.01	55.50	75.40	77.00	32.13	32.50	1023
40	31.05	39.50	52.00	42.10	77.70	82.60	32.32	34.20	1026	31.10	39.11	55.60	75.40	77.00	32.32	31.80	1023
41	31.25	39.60	52.10	42.30	77.80	82.10	32.47	32.90	1029	31.20	39.11	55.70	75.50	77.20	32.42	32.60	1021
42	31.30	39.70	52.30	42.50	78.00	81.60	32.67	32.60	1026	31.30	39.21	55.70	75.50	77.40	32.57	32.60	1023
43	31.30	39.79	52.40	42.50	78.10	81.30	32.76	33.20	1029	31.40	39.31	55.90	75.80	77.00	32.76	32.10	1021
44	31.40	39.89	52.50	42.70	78.30	82.10	32.91	33.70	1021	31.54	39.45	56.00	75.90	77.30	32.86	32.70	1023
45	31.45	39.89	52.60	42.80	78.30	81.30	33.06	33.10	1023	31.59	39.55	56.10	75.90	77.00	33.01	32.40	1023
46	31.54	39.99	52.60	42.90	78.30	82.10	33.20	33.30	1026	31.69	39.60	56.10	75.80	77.00	33.15	31.90	1021
47	31.64	40.09	52.70	43.00	78.30	82.60	33.35	33.80	1029	31.69	39.65	56.20	75.80	77.30	33.25	33.10	1021
48	31.79	40.19	52.80	43.10	78.30	83.10	33.50	32.80	1026	31.88	39.75	56.20	75.90	77.70	33.40	32.80	1021
49	31.93	40.28	52.90	43.20	78.40	82.60	33.64	32.50	1026	32.03	39.89	56.40	76.00	77.70	33.54	32.30	1021
50	31.98	40.38	53.10	43.40	78.50	82.70	33.74	33.60	1023	32.08	39.99	56.40	76.00	77.90	33.64	33.40	1021
51	32.08	40.48	53.20	43.50	78.60	82.50	33.94	33.40	1021	32.08	40.09	56.60	76.00	77.70	33.74	32.40	1021
52	32.18	40.58	53.20	43.60	78.60	82.10	34.03	32.30	1021	32.18	40.09	56.60	76.20	77.70	33.89	31.60	1021
53	32.23	40.67	53.40	43.70	78.60	81.80	34.18	32.80	1026	32.28	40.19	56.60	76.00	78.10	34.03	30.80	1021
54	32.28	40.77	53.40	43.90	78.70	82.70	34.33	32.90	1026	32.37	40.23	56.70	76.00	77.50	34.13	32.30	1021
55	32.42	40.82	53.50	43.90	78.70	83.40	34.42	33.70	1029	32.47	40.33	56.80	76.20	78.20	34.33	33.00	1021
56	32.52	40.97	53.50	44.00	78.80	83.50	34.57	33.80	1026	32.62	40.43	56.80	76.30	77.90	34.33	33.40	1021
57	32.62	41.02	53.50	44.00	78.70	83.30	34.67	33.50	1021	32.67	40.58	57.00	76.30	77.70	34.47	31.40	1021
58	32.71	41.16	53.80	44.20	78.80	82.80	34.81	32.60	1026	32.71	40.67	57.10	76.30	77.90	34.62	30.90	1021
59	32.81	41.26	53.80	44.30	78.90	83.00	34.91	32.90	1029	32.76	40.67	57.20	76.30	78.00	34.72	30.70	1021
60	32.86	41.26	53.90	44.40	79.00	82.80	35.06	31.80	1026	32.86	40.72	57.30	76.40	78.10	34.81	32.80	1021
61	32.86	41.31	53.90	44.50	78.90	82.40	35.16	31.90	1021	32.96	40.82	57.40	76.40	78.00	34.91	34.40	1021
62	32.91	41.41	54.00	44.60	79.00	83.20	35.30	32.10	1023	33.11	40.97	57.50	76.50	77.70	35.11	32.90	1021
63	33.06	41.46	54.00	44.60	79.00	83.10	35.40	32.80	1023	33.20	41.02	57.70	76.60	77.80	35.16	33.20	1021
64	33.25	41.65	54.10	44.70	79.00	83.10	35.50	32.30	1023	33.25	41.06	57.70	76.50	78.10	35.25	32.30	1021

65	33.30	41.75	54.30	44.80	79.20	83.80	35.64	33.20	1023	33.25	41.11	57.80	76.50	78.70	35.40	30.10	1023
66	33.45	41.85	54.40	44.90	79.20	82.60	35.74	32.90	1023	33.30	41.21	57.80	76.60	78.30	35.50	31.30	1021
67	33.45	41.85	54.40	45.00	79.20	83.00	35.89	33.50	1021	33.45	41.31	57.90	76.60	78.20	35.60	33.10	1023
68	33.54	41.89	54.50	45.10	79.20	83.00	35.99	32.20	1021	33.64	41.41	58.00	76.80	78.20	35.69	33.70	1021
69	33.59	41.99	54.60	45.20	79.30	82.70	36.04	33.30	1021	33.69	41.46	58.10	76.80	78.40	35.84	31.40	1021
70	33.64	42.09	54.60	45.30	79.40	83.50	36.18	32.20	1021	33.69	41.70	58.20	76.90	78.40	35.89	31.40	1021
71	33.64	42.14	54.70	45.40	79.40	83.30	36.28	32.30	1023	33.74	41.65	58.00	76.90	78.30	35.99	31.00	1021
72	33.79	42.24	54.80	45.40	79.40	83.00	36.43	33.00	1021	33.84	41.75	58.00	76.90	78.50	36.13	32.40	1021
73	33.89	42.29	54.80	45.50	79.40	83.60	36.52	33.40	1021	33.98	41.85	58.00	77.00	78.30	36.23	32.90	1021
74	34.03	42.43	54.90	45.50	79.40	83.50	36.62	33.10	1021	34.08	41.89	58.10	77.10	79.10	36.28	34.10	1021
75	34.13	42.48	55.00	45.60	79.50	83.60	36.72	32.80	1021	34.08	41.99	58.30	77.10	78.40	36.43	32.40	1021
76	34.18	42.53	55.00	45.70	79.50	83.40	36.82	33.20	1023	34.13	42.04	58.30	77.10	78.40	36.52	32.40	1021
77	34.33	42.63	55.20	45.80	79.60	83.00	36.91	33.00	1021	34.18	42.04	58.30	76.90	78.50	36.62	32.80	1021
78	34.38	42.68	55.20	45.90	79.60	83.00	37.01	33.10	1021	34.28	42.09	58.30	77.00	78.30	36.67	34.00	1021
79	34.42	42.77	55.30	46.00	79.70	83.10	37.11	32.30	1021	34.38	42.24	58.40	77.10	78.20	36.77	32.40	1023
80	34.42	42.77	55.40	46.10	79.70	83.00	37.21	32.20	1021	34.42	42.29	58.50	77.40	78.40	36.87	34.00	1021
81	34.42	42.82	55.40	46.10	79.70	82.90	37.30	32.30	1021	34.52	42.33	58.60	77.40	78.60	37.01	31.00	1021
82	34.62	42.92	55.40	46.10	79.70	83.70	37.40	32.00	1021	34.57	42.43	58.80	77.40	78.60	37.06	31.60	1021
83	34.67	43.02	55.40	46.20	79.70	84.00	37.45	34.40	1021	34.62	42.48	58.80	77.40	78.10	37.21	32.90	1023
84	34.81	43.12	55.70	46.30	79.80	84.10	37.55	32.70	1021	34.62	42.53	58.80	77.20	77.90	37.26	31.50	1023
85	34.86	43.21	55.70	46.40	79.70	84.10	37.65	33.10	1021	34.72	42.53	58.80	77.20	78.50	37.35	32.10	1021
86	34.86	43.21	55.80	46.50	79.70	83.30	37.74	33.20	1018	34.81	42.63	58.90	77.40	78.60	37.45	33.20	1023
87	34.91	43.31	55.90	46.60	79.80	84.00	37.84	33.40	1021	34.96	42.68	58.90	77.40	78.70	37.50	32.00	1023
88	35.01	43.36	55.80	46.60	79.80	82.90	37.89	32.00	1021	35.06	42.82	59.10	77.50	79.00	37.55	32.10	1023
89	35.06	43.41	56.00	46.70	79.80	83.90	37.99	33.60	1021	35.01	42.87	59.10	77.40	78.90	37.65	32.10	1021
90	35.21	43.51	55.90	46.70	79.70	83.80	38.09	32.60	1021	35.06	42.92	59.10	77.40	79.10	37.74	31.00	1021
91	35.30	43.60	56.10	46.80	79.90	84.30	38.18	33.20	1021	35.16	42.87	59.10	77.20	78.40	37.84	32.40	1021
92	35.40	43.70	56.20	46.90	80.00	83.90	38.23	33.10	1021	35.21	42.97	59.20	77.40	78.70	37.89	32.90	1021
93	35.40	43.80	56.20	46.90	80.00	82.90	38.33	32.60	1021	35.30	43.07	59.20	77.50	78.80	37.99	33.10	1023
94	35.45	43.75	56.30	47.10	80.10	83.50	38.43	32.80	1021	35.45	43.16	59.30	77.50	78.40	38.04	32.50	1021
95	35.45	43.80	56.30	47.20	80.10	83.60	38.53	32.00	1021	35.50	43.21	59.40	77.50	78.40	38.13	33.40	1021
96	35.50	43.85	56.40	47.10	80.00	83.30	38.62	33.10	1021	35.40	43.21	59.40	77.40	78.60	38.23	31.50	1021
97	35.60	43.90	56.40	47.20	80.10	83.70	38.67	33.10	1021	35.45	43.26	59.50	77.40	78.90	38.28	30.80	1021
98	35.74	44.19	56.60	47.20	80.10	84.00	38.82	33.00	1021	35.55	43.26	59.50	77.40	78.70	38.38	31.70	1021
99	35.84	44.19	56.50	47.30	80.20	83.50	38.82	32.90	1021	35.64	43.41	59.50	77.50	79.00	38.43	34.10	1021
100	35.89	44.19	56.50	47.40	80.30	83.80	38.96	32.80	1021	35.74	43.46	59.60	77.60	79.00	38.53	33.50	1021

101	35.84	44.19	56.60	47.50	80.30	83.70	39.01	33.40	1018	35.79	43.51	59.60	77.80	79.00	38.62	31.90	1021
102	35.89	44.24	56.60	47.50	80.30	84.20	39.06	32.90	1021	35.84	43.55	59.70	77.70	78.80	38.67	32.00	1021
103	35.94	44.38	56.60	47.50	80.30	83.70	39.16	32.90	1021	35.89	43.65	59.80	77.70	79.00	38.72	32.10	1021
104	36.04	44.38	56.60	47.60	80.40	84.40	39.26	34.40	1021	35.84	43.60	59.80	77.60	79.20	38.82	31.90	1021
105	36.13	44.48	56.80	47.70	80.40	84.30	39.31	34.50	1018	35.94	43.65	59.80	77.50	78.60	38.87	31.90	1018
106	36.23	44.53	56.80	47.70	80.40	84.60	39.40	32.90	1021	36.04	43.80	59.90	77.70	78.80	38.96	34.60	1021
107	36.28	44.58	56.80	47.70	80.40	83.20	39.45	33.10	1021	36.18	43.80	60.00	77.80	78.90	39.01	33.10	1021
108	36.28	44.63	56.90	47.90	80.60	84.60	39.50	32.60	1018	36.23	43.95	60.00	77.80	79.40	39.06	32.70	1021
109	36.28	44.34	56.90	47.80	80.40	84.10	39.60	32.80	1015	36.23	43.99	60.10	77.80	79.40	39.11	30.40	1021
110	36.28	44.78	57.10	48.00	80.40	83.50	39.70	32.60	1018	36.23	43.99	60.10	77.70	79.00	39.21	32.80	1021
111	36.38	44.78	56.90	48.00	80.40	83.70	39.75	32.60	1018	36.23	43.99	60.10	77.80	78.70	39.31	32.60	1021
112	36.47	44.82	56.90	48.00	80.40	84.70	39.79	33.70	1021	36.33	43.99	60.20	77.70	79.00	39.36	32.80	1021
113	36.57	44.97	56.90	48.10	80.60	84.30	39.84	32.40	1021	36.43	44.19	60.20	77.80	79.20	39.40	32.90	1021
114	36.67	44.97	57.00	48.10	80.40	83.80	39.94	32.80	1021	36.57	44.19	60.30	77.80	79.20	39.45	32.80	1021
115	36.62	45.07	57.10	48.30	80.60	83.60	39.99	33.50	1021	36.52	44.29	60.40	77.80	79.20	39.55	34.00	1021
116	36.72	45.02	57.00	48.30	80.60	83.80	40.04	33.80	1021	36.52	44.24	60.40	77.70	79.00	39.60	32.30	1021
117	36.72	45.02	57.00	48.30	80.60	83.90	40.19	32.30	1021	36.52	44.29	60.40	77.80	79.20	39.70	31.70	1021
118	36.72	45.02	57.10	48.40	80.70	84.10	40.19	33.70	1021	36.57	44.29	60.40	77.80	78.90	39.75	31.60	1021
119	36.82	45.17	57.10	48.40	80.60	84.10	40.28	33.40	1021	36.62	44.29	60.40	77.80	79.00	39.79	32.70	1018
120	36.91	45.21	57.10	48.50	80.60	85.30	40.33	33.70	1021	36.77	44.38	60.40	77.80	78.80	39.84	34.00	1021
121	37.01	45.36	57.20	48.50	80.70	84.90	40.38	34.10	1021	36.82	44.43	60.60	77.90	78.90	39.89	32.30	1021
122	37.11	45.36	57.30	48.50	80.70	84.10	40.48	32.90	1018	36.87	44.48	60.70	78.00	79.40	39.99	32.00	1021
123	37.06	45.36	57.40	48.60	80.80	84.30	40.58	32.40	1018	36.87	44.53	60.70	77.80	78.70	40.04	32.10	1021
124	37.06	45.41	57.40	48.60	80.70	84.30	40.58	33.00	1021	36.91	44.53	60.70	77.80	78.80	40.09	31.80	1021
125	37.11	45.46	57.40	48.70	80.70	84.40	40.63	33.10	1018	36.96	44.63	60.80	78.00	78.60	40.19	32.60	1021
126	37.16	45.46	57.50	48.80	80.70	84.10	40.67	31.80	1021	37.11	44.68	60.80	78.00	78.90	40.19	32.10	1021
127	37.26	45.51	57.50	48.80	80.80	84.40	40.77	32.80	1021	37.16	44.78	60.80	78.10	79.10	40.23	33.80	1021
128	37.40	45.56	57.50	48.80	80.90	85.10	40.82	33.20	1021	37.16	44.82	60.90	78.10	79.20	40.33	32.30	1021
129	37.35	45.65	57.60	48.90	81.00	84.20	40.92	33.10	1021	37.16	44.87	60.90	78.10	79.10	40.38	32.60	1021
130	37.40	45.70	57.70	49.00	81.00	83.90	40.97	33.00	1021	37.16	44.87	61.00	78.20	79.20	40.43	30.70	1021
131	37.40	45.65	57.70	48.90	81.00	84.20	40.97	32.70	1018	37.21	44.87	60.90	78.10	78.90	40.53	32.40	1021
132	37.35	45.70	57.80	49.00	81.00	84.70	41.06	32.90	1021	37.35	44.97	61.10	78.20	79.30	40.58	32.50	1021
133	37.50	45.75	57.80	49.10	81.00	84.10	41.11	33.10	1021	37.45	45.02	61.10	78.20	78.70	40.58	33.70	1021
134	37.60	45.80	57.70	49.00	81.00	84.70	41.16	34.40	1021	37.50	45.07	61.20	78.30	79.00	40.63	31.80	1021
135	37.70	45.90	57.80	49.10	81.00	84.40	41.21	33.30	1018	37.45	45.07	61.30	78.30	79.40	40.67	31.50	1021
136	37.74	45.95	57.90	49.20	81.10	83.40	41.31	33.20	1021	37.35	45.12	61.20	78.20	79.30	40.72	30.30	1021

137	37.70	45.95	58.00	49.30	81.20	85.50	41.36	32.80	1021	37.50	45.12	61.20	78.20	78.90	40.77	32.00	1023
138	37.70	46.00	58.00	49.20	81.10	84.30	41.36	32.60	1021	37.60	45.17	61.20	78.10	79.40	40.87	33.90	1021
139	37.70	46.04	58.00	49.30	81.20	84.70	41.41	32.70	1021	37.60	45.26	61.40	78.30	79.50	40.87	33.20	1021
140	37.79	46.09	58.00	49.30	81.20	84.70	41.46	32.80	1018	37.70	45.36	61.40	78.30	79.40	40.97	31.90	1023
141	37.94	46.09	58.00	49.40	81.20	84.50	41.55	32.60	1021	37.65	45.31	61.50	78.40	79.70	40.97	30.60	1021
142	37.99	46.19	58.10	49.40	81.30	84.50	41.55	33.20	1021	37.65	45.36	61.40	78.40	79.20	41.02	31.40	1023
143	37.99	46.24	58.10	49.40	81.30	84.50	41.60	33.30	1021	37.65	45.36	61.50	78.30	79.30	41.06	31.90	1021
144	37.99	46.19	58.20	49.50	81.40	84.00	41.70	32.80	1018	37.74	45.36	61.50	78.20	79.50	41.16	34.30	1021
145	37.99	46.24	58.20	49.70	81.40	84.00	41.75	33.40	1018	37.79	45.41	61.50	78.40	79.40	41.16	32.50	1023
146	37.99	46.34	58.20	49.50	81.30	84.30	41.75	32.90	1018	37.84	45.46	61.60	78.40	79.20	41.26	33.40	1023
147	38.09	46.34	58.20	49.70	81.40	84.60	41.85	33.00	1018	37.89	45.51	61.60	78.30	79.70	41.26	31.40	1021
148	38.09	46.39	58.30	49.70	81.40	84.60	41.89	34.20	1021	37.89	45.56	61.70	78.20	79.00	41.31	30.50	1021
149	38.18	46.44	58.30	49.70	81.40	84.10	41.94	32.40	1018	37.89	45.56	61.70	78.20	79.40	41.36	31.80	1021
150	38.28	46.53	58.30	49.70	81.40	83.90	41.99	31.90	1018	37.94	45.61	61.60	78.30	78.90	41.41	32.60	1023
151	38.23	46.48	58.30	49.70	81.30	83.70	42.04	32.30	1021	37.99	45.65	61.70	78.30	78.90	41.46	32.80	1026
152	38.18	46.53	58.30	49.80	81.30	84.20	42.09	32.70	1021	38.09	45.70	61.70	78.40	79.50	41.46	32.80	1023
153	38.23	46.53	58.40	49.80	81.40	84.40	42.14	33.10	1021	38.13	45.75	61.80	78.40	79.40	41.50	33.70	1021
154	38.33	46.53	58.30	49.80	81.40	84.70	42.14	33.70	1018	38.09	45.75	61.80	78.40	79.40	41.55	31.30	1021
155	38.38	46.53	58.40	49.90	81.40	84.60	42.19	33.60	1018	38.09	45.75	61.90	78.40	79.70	41.60	32.10	1021
156	38.43	46.58	58.40	50.00	81.50	84.30	42.24	32.10	1018	38.13	45.75	61.80	78.40	79.30	41.65	32.90	1021
157	38.43	46.63	58.60	50.00	81.40	84.80	42.24	32.40	1021	38.18	45.75	61.90	78.60	79.50	41.75	34.50	1023
158	38.43	46.73	58.60	50.00	81.40	84.90	42.33	32.80	1021	38.33	45.85	61.90	78.70	79.40	41.75	32.60	1021
159	38.43	46.73	58.70	50.10	81.50	84.60	42.38	33.00	1021	38.33	45.90	62.00	78.70	80.00	41.75	32.30	1021
160	38.43	46.73	58.60	50.10	81.50	85.20	42.43	33.40	1021	38.38	45.95	62.00	78.60	80.00	41.80	31.00	1021
161	38.57	46.78	58.60	50.10	81.40	84.90	42.48	32.90	1018	38.28	45.95	62.00	78.50	79.40	41.85	33.20	1023
162	38.67	46.88	58.60	50.10	81.60	85.20	42.48	33.40	1021	38.38	45.95	62.00	78.40	79.70	41.89	33.20	1021
163	38.67	46.92	58.80	50.10	81.60	84.30	42.53	32.90	1021	38.43	46.04	62.10	78.60	79.40	41.89	33.70	1023
164	38.72	46.92	58.80	50.20	81.60	84.40	42.58	32.20	1021	38.53	46.09	62.10	78.70	79.60	41.94	34.60	1023
165	38.67	46.92	58.80	50.20	81.50	84.40	42.63	33.10	1021	38.48	46.14	62.10	78.70	79.50	41.99	33.20	1023
166	38.72	46.92	58.80	50.30	81.60	84.60	42.63	32.60	1021	38.48	46.14	62.30	78.70	80.10	42.04	33.40	1023
167	38.67	46.92	58.80	50.30	81.50	84.70	42.68	33.20	1021	38.43	46.14	62.30	78.60	80.00	42.09	31.50	1021
168	38.77	47.02	58.90	50.30	81.70	85.50	42.72	33.30	1026	38.57	46.14	62.20	78.60	79.70	42.14	32.80	1026
169	38.87	47.07	58.90	50.20	81.70	85.50	42.77	33.40	1023	38.62	46.14	62.30	78.70	79.70	42.14	32.90	1023
170	38.96	47.02	58.90	50.40	81.80	84.20	42.82	33.10	1026	38.67	46.19	62.30	78.80	79.80	42.14	33.20	1023
171	38.96	47.12	59.00	50.50	81.80	85.50	42.87	33.40	1026	38.67	46.24	62.30	78.70	79.90	42.19	33.40	1023
172	38.92	47.12	59.10	50.50	81.90	84.50	42.92	33.20	1026	38.62	46.24	62.40	78.70	79.50	42.29	31.90	1023

173	38.92	47.17	59.10	50.50	81.80	85.00	42.92	33.00	1026	38.57	46.19	62.40	78.50	79.00	42.33	32.00	1026
174	38.92	47.22	59.10	50.50	81.80	85.20	42.92	32.80	1026	38.67	46.24	62.40	78.60	80.40	42.33	32.90	1026
175	38.96	47.27	59.10	50.50	81.90	84.90	42.97	33.70	1029	38.77	46.29	62.40	78.70	79.40	42.38	33.60	1026
176	39.06	47.31	59.10	50.50	82.00	85.00	43.02	33.20	1029	38.77	46.34	62.40	78.80	79.40	42.38	32.60	1023
177	39.11	47.31	59.20	50.60	82.00	85.00	43.07	33.90	1026	38.82	46.39	62.40	78.90	79.40	42.43	33.70	1026
178	39.11	47.31	59.20	50.60	82.00	85.00	43.12	33.70	1026	38.77	46.34	62.50	78.70	79.50	42.48	32.20	1023
179	39.06	47.31	59.20	50.70	82.00	84.50	43.12	33.30	1026	38.82	46.39	62.60	78.80	79.40	42.53	32.50	1023
180	39.06	47.36	59.20	50.60	81.90	84.50	43.16	32.20	1026	38.82	46.44	62.60	78.70	79.50	42.48	32.70	1026

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 10° (Data 2)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)
0	27.10	27.10	26.40	26.80	26.60	26.60	27.05	25.80	996	27.15	27.15	26.40	26.70	26.60	26.95	25.50	964
1	27.39	30.08	39.40	27.70	47.90	51.90	27.10	30.70	1007	27.34	31.01	43.30	41.60	45.80	26.90	29.60	977
2	27.49	31.88	41.50	29.00	52.90	57.70	27.10	30.80	1015	27.39	33.15	46.40	46.60	51.00	26.95	30.50	980
3	27.59	32.76	42.80	30.10	56.30	61.80	27.05	30.80	1018	27.49	33.84	47.50	50.60	54.90	27.00	30.40	988
4	27.69	33.25	43.60	30.90	59.10	64.70	27.10	30.00	1021	27.69	34.23	48.10	53.90	57.80	27.00	29.80	991
5	27.78	33.74	44.20	31.70	61.50	67.70	27.15	31.20	1026	27.78	34.47	48.60	56.70	60.50	27.10	30.30	994
6	27.98	34.13	45.00	32.30	63.40	70.20	27.29	31.20	1029	27.98	34.77	48.90	59.10	63.10	27.25	31.40	994
7	28.13	34.52	45.40	32.90	65.10	72.10	27.39	31.60	1032	28.13	35.06	49.60	61.10	65.40	27.34	31.80	999
8	28.22	34.81	46.00	33.60	66.70	73.40	27.49	31.90	1029	28.17	35.25	49.80	62.80	66.80	27.49	30.80	1002
9	28.32	35.11	46.40	34.10	67.90	74.60	27.64	31.30	1032	28.27	35.50	50.20	64.30	67.60	27.64	30.50	999
10	28.32	35.35	46.80	34.60	69.00	75.60	27.78	30.80	1032	28.32	35.60	50.40	65.50	68.70	27.78	31.00	999
11	28.42	35.60	47.10	35.10	69.90	76.30	27.88	32.00	1037	28.42	35.79	50.60	66.60	69.70	27.88	31.50	999
12	28.52	35.79	47.50	35.50	70.80	78.10	28.08	32.40	1037	28.52	35.94	50.80	67.50	70.80	28.08	32.10	1004
13	28.66	36.04	47.80	35.90	71.50	78.80	28.17	31.60	1040	28.61	36.08	51.20	68.40	71.80	28.17	31.60	1002
14	28.76	36.18	48.10	36.40	72.30	79.40	28.32	33.20	1040	28.71	36.28	51.50	69.20	72.10	28.32	30.80	1004
15	28.76	36.38	48.40	36.80	72.90	79.80	28.42	30.00	1040	28.76	36.38	51.70	69.90	72.10	28.47	31.30	1002
16	28.86	36.57	48.60	37.10	73.20	79.40	28.61	31.80	1040	28.86	36.52	51.90	70.40	72.90	28.61	32.10	1004
17	28.96	36.72	48.80	37.50	73.80	81.00	28.76	33.10	1040	28.91	36.62	52.00	70.80	73.40	28.76	31.60	1007
18	29.05	36.91	49.10	37.70	74.20	80.70	28.96	32.00	1040	29.00	36.72	52.20	71.30	74.10	28.91	32.20	1010
19	29.20	37.06	49.20	38.00	74.60	80.90	29.10	31.80	1037	29.15	36.87	52.40	71.80	74.60	29.05	31.80	1010
20	29.25	37.21	49.50	38.40	74.90	81.70	29.25	32.80	1037	29.25	37.01	52.60	72.10	74.30	29.25	31.60	1004
21	29.35	37.35	49.70	38.60	75.10	81.00	29.44	32.10	1040	29.35	37.16	52.80	72.40	74.60	29.39	30.30	1004
22	29.39	37.50	49.80	38.90	75.40	81.60	29.64	33.20	1032	29.35	37.21	52.80	72.70	74.70	29.59	31.10	1002
23	29.54	37.55	50.00	39.10	75.70	82.40	29.74	32.90	1037	29.49	37.30	52.90	72.90	75.00	29.74	31.70	1010
24	29.69	37.74	50.20	39.40	75.90	81.80	29.93	32.30	1040	29.54	37.45	53.10	73.20	75.10	29.88	32.20	1007
25	29.74	37.84	50.30	39.60	76.10	81.40	30.08	33.30	1040	29.74	37.55	53.20	73.40	75.40	30.03	32.80	1010
26	29.83	37.94	50.40	39.80	76.30	81.10	30.22	31.50	1037	29.79	37.65	53.40	73.60	75.30	30.18	32.30	1007
27	29.83	38.09	50.70	40.10	76.40	82.90	30.42	32.80	1037	29.88	37.70	53.40	73.70	74.60	30.37	33.40	1004
28	29.93	38.18	50.70	40.30	76.50	82.70	30.57	32.80	1040	29.93	37.74	53.50	73.80	74.90	30.47	31.70	1004

29	30.08	38.33	50.80	40.40	76.60	82.20	30.71	33.50	1040	30.03	37.84	53.60	74.00	75.10	30.66	31.20	1010
30	30.18	38.43	50.90	40.60	76.90	83.00	30.91	33.40	1040	30.13	37.94	53.70	74.00	75.80	30.81	32.70	1010
31	30.32	38.53	51.10	40.80	77.00	82.10	31.10	32.80	1040	30.22	38.04	53.70	74.10	76.10	30.96	32.10	1007
32	30.37	38.67	51.20	41.00	77.30	82.00	31.20	31.10	1040	30.42	38.18	53.90	74.30	76.00	31.15	31.90	1007
33	30.47	38.77	51.40	41.20	77.40	82.60	31.35	32.90	1037	30.47	38.33	54.10	74.40	75.20	31.25	33.10	1007
34	30.52	38.92	51.50	41.40	77.50	83.10	31.54	32.60	1040	30.57	38.43	54.10	74.50	75.70	31.40	33.10	1007
35	30.62	39.06	51.60	41.40	77.50	82.40	31.69	32.40	1040	30.57	38.48	54.20	74.60	76.00	31.54	30.80	1007
36	30.81	39.11	51.80	41.60	77.60	82.70	31.88	32.60	1040	30.66	38.53	54.30	74.60	76.10	31.69	31.60	1004
37	30.91	39.26	51.80	41.80	77.70	82.60	31.98	34.40	1034	30.76	38.62	54.30	74.70	76.00	31.84	32.10	1007
38	31.01	39.40	52.00	42.00	77.80	83.00	32.18	32.80	1037	30.86	38.72	54.50	74.90	76.50	31.98	31.80	1004
39	31.05	39.50	52.10	42.20	77.80	83.30	32.32	33.30	1040	30.96	38.77	54.60	75.00	76.70	32.08	32.50	1004
40	31.15	39.60	52.20	42.20	78.00	83.70	32.47	33.40	1037	31.10	38.96	54.70	75.00	76.10	32.23	31.60	1004
41	31.30	39.70	52.30	42.30	78.00	83.50	32.62	34.00	1037	31.15	39.01	54.80	75.10	76.20	32.37	31.70	1004
42	31.40	39.79	52.40	42.40	78.10	83.80	32.76	34.20	1040	31.30	39.11	54.80	75.10	75.70	32.57	31.80	1004
43	31.54	39.89	52.50	42.60	78.20	84.00	32.91	32.70	1037	31.30	39.16	54.90	75.20	76.20	32.67	31.80	1010
44	31.59	40.09	52.60	42.70	78.20	83.50	33.06	31.30	1037	31.40	39.31	54.90	75.20	76.60	32.81	32.40	1004
45	31.69	40.14	52.70	42.80	78.30	83.80	33.20	31.00	1040	31.54	39.40	55.10	75.20	76.40	32.91	32.40	1004
46	31.69	40.23	52.80	42.90	78.30	84.40	33.35	34.00	1034	31.69	39.50	55.20	75.30	76.60	33.06	32.00	1002
47	31.88	40.33	52.80	43.10	78.40	84.40	33.54	32.70	1040	31.74	39.60	55.30	75.30	76.30	33.20	32.40	1004
48	31.98	40.43	52.90	43.20	78.60	83.70	33.64	34.50	1034	31.74	39.65	55.40	75.30	76.40	33.35	32.90	1002
49	32.08	40.53	53.10	43.20	78.60	83.70	33.79	32.10	1034	31.84	39.70	55.40	75.50	76.40	33.50	31.80	1002
50	32.18	40.67	53.30	43.50	78.80	82.50	33.94	32.90	1037	31.88	39.79	55.40	75.40	76.70	33.59	32.10	1004
51	32.23	40.77	53.30	43.60	78.70	83.40	34.08	32.70	1034	32.08	39.89	55.50	75.60	77.40	33.69	32.60	1002
52	32.37	40.87	53.40	43.60	78.80	83.90	34.18	33.30	1034	32.18	39.99	55.70	75.70	77.40	33.84	32.70	1002
53	32.42	40.97	53.40	43.70	78.80	84.40	34.33	32.60	1040	32.28	40.14	56.00	75.90	76.70	33.94	32.30	1029
54	32.52	41.06	53.70	43.90	79.00	84.10	34.42	32.60	1034	32.37	40.28	56.20	76.20	76.40	34.08	32.60	1032
55	32.62	41.11	53.70	44.00	78.90	83.40	34.57	33.00	1034	32.42	40.38	56.20	76.20	76.90	34.23	32.40	1026
56	32.71	41.21	53.80	44.10	79.00	83.10	34.72	32.40	1037	32.42	40.38	56.30	76.40	77.10	34.33	31.80	1029
57	32.76	41.31	53.90	44.30	79.10	83.30	34.86	31.90	1037	32.47	40.48	56.40	76.50	77.40	34.42	31.40	1032
58	32.86	41.36	53.90	44.30	79.10	84.30	34.96	33.40	1040	32.57	40.58	56.40	76.50	77.40	34.52	32.20	1032
59	32.96	41.50	54.00	44.50	79.20	84.40	35.11	33.10	1037	32.71	40.67	56.60	76.80	77.90	34.67	32.70	1032
60	33.11	41.60	54.00	44.50	79.20	84.30	35.21	31.60	1037	32.86	40.77	56.60	76.90	78.00	34.77	32.60	1032
61	33.15	41.65	54.10	44.60	79.30	83.30	35.40	33.40	1037	32.91	40.92	56.60	76.90	77.70	34.91	33.50	1029
62	33.20	41.75	54.20	44.80	79.40	83.60	35.50	31.60	1037	32.96	40.97	56.80	76.80	77.60	35.01	31.90	1029
63	33.25	41.85	54.30	44.80	79.30	84.50	35.60	31.30	1037	33.01	41.02	56.80	76.90	77.70	35.11	31.30	1032
64	33.40	41.89	54.30	44.90	79.40	84.30	35.69	33.50	1034	33.11	41.06	56.90	76.90	77.70	35.21	32.30	1032

65	33.50	42.04	54.50	45.00	79.50	84.00	35.84	32.40	1034	33.15	41.16	57.00	76.90	78.10	35.30	32.80	1032
66	33.59	42.14	54.60	45.10	79.50	84.40	35.94	33.00	1034	33.25	41.21	57.00	76.90	78.50	35.45	32.30	1029
67	33.64	42.24	54.60	45.20	79.60	84.30	36.08	31.90	1034	33.40	41.26	57.20	77.00	77.80	35.55	33.80	1029
68	33.74	42.24	54.80	45.40	79.70	84.10	36.18	32.50	1034	33.50	41.46	57.20	77.00	78.40	35.64	33.50	1032
69	33.84	42.38	54.80	45.40	79.60	84.30	36.28	33.20	1037	33.59	41.50	57.20	77.20	78.00	35.74	31.40	1032
70	33.94	42.43	54.90	45.50	79.70	83.90	36.43	32.30	1037	33.64	41.60	57.30	77.20	77.50	35.89	32.90	1029
71	34.03	42.53	54.90	45.50	79.80	84.30	36.57	33.60	1034	33.69	41.60	57.40	77.20	77.30	35.89	31.80	1029
72	34.13	42.63	55.10	45.70	79.80	84.10	36.67	33.30	1037	33.69	41.65	57.40	77.20	78.10	36.08	32.40	1032
73	34.18	42.72	55.20	45.80	80.00	84.20	36.77	34.00	1032	33.84	41.75	57.60	77.30	78.90	36.13	33.30	1032
74	34.23	42.82	55.10	45.80	79.90	84.30	36.87	32.20	1032	33.98	41.85	57.60	77.40	78.20	36.28	33.10	1032
75	34.38	42.92	55.40	46.00	80.10	84.30	36.96	32.70	1037	34.03	41.94	57.80	77.40	78.60	36.33	31.90	1032
76	34.42	42.97	55.30	46.00	80.10	84.50	37.06	34.20	1037	34.08	41.99	57.70	77.40	78.00	36.47	31.30	1029
77	34.47	43.02	55.40	46.00	80.10	85.50	37.16	32.90	1037	34.13	42.04	57.80	77.40	77.60	36.57	32.60	1032
78	34.62	43.12	55.50	46.10	80.10	85.00	37.30	32.60	1032	34.13	42.04	57.90	77.40	77.70	36.62	31.90	1032
79	34.72	43.26	55.60	46.20	80.10	85.00	37.45	32.60	1040	34.23	42.14	57.80	77.30	78.40	36.72	32.20	1032
80	34.72	43.26	55.70	46.30	80.10	84.30	37.45	32.90	1037	34.38	42.24	57.90	77.40	78.40	36.82	32.90	1032
81	34.72	43.36	55.70	46.50	80.10	84.40	37.60	32.10	1037	34.42	42.33	58.00	77.50	78.40	36.91	32.60	1032
82	34.86	43.41	55.80	46.50	80.10	86.00	37.65	34.60	1037	34.57	42.38	58.10	77.40	78.50	37.01	32.60	1032
83	35.01	43.46	55.80	46.50	80.20	85.10	37.74	33.80	1040	34.52	42.43	58.20	77.40	78.30	37.06	31.40	1029
84	35.06	43.60	55.90	46.60	80.30	84.90	37.84	33.20	1040	34.57	42.58	58.30	77.40	78.00	37.21	31.80	1032
85	35.11	43.60	56.00	46.70	80.30	83.60	37.94	32.00	1037	34.57	42.53	58.30	77.40	77.70	37.26	31.60	1029
86	35.21	43.75	56.00	46.80	80.40	83.00	38.04	33.40	1040	34.67	42.58	58.30	77.40	78.60	37.40	32.40	1032
87	35.25	43.80	56.00	46.80	80.30	84.80	38.13	32.50	1034	34.77	42.68	58.30	77.50	78.30	37.45	32.30	1015
88	35.35	43.80	56.10	46.90	80.40	85.20	38.23	34.40	1040	34.86	42.72	58.20	77.50	78.70	37.50	33.10	1015
89	35.40	43.90	56.20	47.00	80.40	85.70	38.33	33.00	1043	35.01	42.82	58.30	77.50	78.30	37.55	33.40	1018
90	35.50	43.99	56.30	47.20	80.50	84.10	38.43	33.30	1040	35.01	42.87	58.30	77.50	77.70	37.70	33.20	1013
91	35.60	44.09	56.40	47.20	80.60	84.40	38.53	33.20	1037	35.01	42.92	58.40	77.50	78.00	37.74	32.90	1013
92	35.60	44.14	56.40	47.30	80.60	85.00	38.62	30.10	1040	35.06	42.92	58.40	77.40	77.90	37.84	31.40	1018
93	35.84	44.19	56.40	47.40	80.60	85.10	38.72	33.00	1040	35.16	43.02	58.40	77.50	78.00	37.94	33.20	1018
94	35.94	44.34	56.50	47.50	80.70	85.30	38.77	33.60	1037	35.25	43.07	58.40	77.50	78.90	37.99	32.90	1015
95	35.99	44.43	56.60	47.70	80.70	85.20	38.87	33.60	1040	35.40	43.16	58.50	77.50	78.90	38.09	33.40	1015
96	35.99	44.43	56.60	47.70	80.70	84.90	39.01	32.40	1040	35.35	43.21	58.60	77.50	77.70	38.18	32.90	1015
97	35.99	44.48	56.70	47.70	80.70	84.10	39.06	32.30	1037	35.40	43.21	58.70	77.60	78.30	38.23	31.90	1015
98	35.99	44.58	56.70	47.80	80.60	84.70	39.11	33.30	1037	35.45	43.31	58.70	77.50	77.50	38.28	32.10	1015
99	36.04	44.58	56.80	48.00	80.70	84.80	39.21	32.50	1040	35.45	43.31	58.80	77.60	78.10	38.38	31.40	1013
100	36.08	44.58	56.80	48.00	80.70	85.10	39.31	31.50	1040	35.60	43.36	58.70	77.60	78.40	38.48	33.20	1015

101	36.18	44.68	56.80	48.00	80.70	85.30	39.40	33.40	1040	35.60	43.41	58.80	77.50	78.40	38.53	33.00	1015
102	36.28	44.73	56.90	48.10	80.90	86.20	39.45	33.20	1037	35.74	43.51	58.90	77.60	78.40	38.62	33.40	1015
103	36.38	44.82	56.90	48.10	80.90	85.80	39.55	33.80	1040	35.79	43.55	58.90	77.60	77.80	38.67	33.30	1013
104	36.47	44.92	57.10	48.30	80.90	85.00	39.60	33.20	1040	35.84	43.55	58.90	77.60	77.90	38.72	31.40	1013
105	36.47	44.97	57.10	48.50	81.00	85.00	39.70	33.10	1040	35.84	43.60	59.00	77.50	77.60	38.82	32.70	1015
106	36.43	44.97	57.10	48.50	81.00	85.00	39.79	32.80	1040	35.89	43.60	59.10	77.40	78.40	38.87	31.60	1015
107	36.57	45.07	57.20	48.50	81.10	85.50	39.89	33.50	1043	35.99	43.75	59.10	77.50	78.60	39.01	33.10	1018
108	36.67	45.12	57.20	48.50	81.10	85.70	39.94	34.40	1040	36.08	43.80	59.20	77.50	78.70	39.01	33.20	1018
109	36.77	45.21	57.40	48.60	81.20	86.00	39.99	33.60	1040	36.18	43.85	59.20	77.50	78.30	39.06	32.90	1015
110	36.82	45.31	57.40	48.80	81.30	85.00	40.09	32.40	1043	36.18	43.90	59.30	77.60	78.10	39.16	33.40	1013
111	36.87	45.31	57.40	48.80	81.40	85.80	40.19	32.80	1040	36.18	43.90	59.40	77.60	77.70	39.21	32.30	1015
112	36.87	45.36	57.50	48.90	81.20	85.00	40.23	33.60	1040	36.18	43.90	59.30	77.60	77.20	39.31	32.60	1013
113	36.91	45.36	57.50	48.90	81.20	85.10	40.28	33.20	1040	36.28	43.95	59.30	77.70	78.10	39.36	32.00	1015
114	37.01	45.41	57.50	48.90	81.20	85.40	40.38	33.00	1040	36.33	43.99	59.30	77.70	78.60	39.40	33.10	1013
115	37.01	45.46	57.60	49.10	81.30	85.20	40.48	33.20	1043	36.47	44.04	59.40	77.70	78.50	39.50	33.20	1013
116	37.16	45.56	57.60	49.10	81.40	85.70	40.53	33.90	1040	36.52	44.14	59.50	77.80	78.30	39.50	32.40	1015
117	37.16	45.61	57.70	49.10	81.40	85.00	40.58	33.40	1037	36.52	44.24	59.50	77.80	77.90	39.60	32.30	1013
118	37.16	45.61	57.80	49.10	81.40	85.20	40.63	33.40	1040	36.57	44.24	59.70	77.80	78.10	39.70	32.90	1015
119	37.21	45.70	57.80	49.30	81.50	84.70	40.72	33.60	1040	36.57	44.19	59.70	77.80	78.30	39.75	32.30	1015
120	37.21	45.70	57.80	49.30	81.60	85.20	40.77	33.10	1037	36.62	44.24	59.70	77.70	78.70	39.79	32.80	1013
121	37.35	45.75	57.80	49.40	81.60	85.20	40.87	34.10	1040	36.77	44.38	59.70	77.80	78.70	39.79	32.60	1013
122	37.45	45.85	57.90	49.40	81.70	87.00	40.97	32.80	1043	36.82	44.43	59.70	77.70	78.90	39.84	32.50	1015
123	37.50	45.95	58.00	49.40	81.60	86.80	40.97	32.90	1040	36.82	44.48	59.80	77.80	77.60	39.94	32.60	1015
124	37.60	45.95	58.00	49.50	81.70	85.50	41.06	32.20	1043	36.82	44.53	59.80	77.80	77.80	39.99	33.10	1018
125	37.60	46.04	58.00	49.50	81.60	84.70	41.11	33.20	1040	36.87	44.53	60.00	77.90	78.60	40.09	32.00	1015
126	37.60	46.14	58.10	49.50	81.60	84.70	41.16	32.30	1040	36.87	44.58	59.90	77.90	78.30	40.14	33.20	1015
127	37.65	46.14	58.10	49.70	81.70	85.00	41.21	33.10	1043	36.96	44.58	59.90	77.90	78.60	40.19	33.10	1013
128	37.74	46.19	58.10	49.70	81.70	85.40	41.31	33.80	1034	37.06	44.68	60.00	78.00	79.00	40.23	32.90	1015
129	37.79	46.19	58.10	49.80	81.70	86.40	41.36	33.10	1040	37.16	44.78	60.10	78.00	78.20	40.23	32.00	1013
130	37.84	46.29	58.20	49.80	81.70	85.70	41.46	33.50	1043	37.11	44.82	60.10	78.00	78.20	40.28	31.70	1013
131	37.84	46.34	58.30	49.80	81.70	85.30	41.46	31.70	1043	37.11	44.78	60.10	78.00	78.30	40.38	32.60	1013
132	37.89	46.29	58.40	49.90	81.70	85.60	41.55	32.30	1040	37.11	44.78	60.10	78.00	78.20	40.48	31.90	1013
133	37.89	46.34	58.40	50.00	81.70	85.60	41.65	32.20	1040	37.11	44.82	60.10	78.00	78.60	40.53	32.00	1015
134	37.89	46.39	58.50	50.00	81.70	85.20	41.65	33.70	1043	37.16	44.82	60.10	78.00	78.90	40.58	32.80	1013
135	38.04	46.39	58.50	50.00	81.80	86.00	41.70	33.30	1040	37.30	44.92	60.10	78.00	79.50	40.58	33.70	1015
136	38.09	46.53	58.50	50.10	81.80	86.50	41.75	33.40	1040	37.35	44.97	60.20	78.00	79.00	40.63	32.80	1010

137	38.09	46.53	58.60	50.10	81.80	85.70	41.85	33.20	1040	37.45	45.07	60.30	78.10	79.00	40.67	32.20	1013
138	38.18	46.53	58.80	50.20	81.90	85.80	41.89	33.50	1037	37.45	45.12	60.40	78.10	78.70	40.77	33.50	1013
139	38.13	46.63	58.80	50.10	81.80	85.50	41.99	32.50	1040	37.35	45.07	60.40	78.00	78.30	40.77	32.30	1013
140	38.18	46.73	58.80	50.30	81.70	85.30	42.04	31.90	1043	37.45	45.07	60.40	78.00	78.40	40.82	32.00	1010
141	38.23	46.68	58.80	50.20	81.70	85.90	42.09	32.70	1040	37.50	45.17	60.40	78.10	78.60	40.87	31.60	1007
142	38.28	46.73	58.80	50.30	81.80	86.50	42.14	33.60	1040	37.60	45.21	60.40	78.10	79.40	40.92	32.90	1007
143	38.38	46.88	58.80	50.40	82.00	86.40	42.14	34.10	1040	37.65	45.26	60.40	78.10	78.40	40.97	31.90	1010
144	38.43	46.88	58.90	50.50	82.00	85.70	42.19	34.40	1043	37.65	45.31	60.50	78.10	78.40	41.02	33.40	1010
145	38.48	46.92	58.90	50.50	82.00	86.10	42.24	32.70	1040	37.65	45.31	60.50	78.10	77.80	41.06	32.60	1007
146	38.43	46.92	59.10	50.50	81.90	85.80	42.33	32.90	1040	37.65	45.31	60.60	78.20	78.10	41.11	33.30	1004
147	38.48	46.92	59.10	50.60	82.00	86.70	42.38	33.50	1043	37.65	45.31	60.40	78.10	78.30	41.16	31.10	1004
148	38.57	46.97	59.10	50.60	82.00	86.00	42.43	32.80	1043	37.74	45.31	60.60	78.10	78.60	41.21	32.20	1007
149	38.67	47.02	59.10	50.60	82.10	85.90	42.43	33.60	1040	37.84	45.31	60.50	78.10	79.10	41.21	33.00	1007
150	38.67	47.07	59.10	50.60	82.00	85.70	42.43	31.60	1040	37.94	45.41	60.60	78.10	78.70	41.31	33.00	1007
151	38.67	47.07	59.20	50.80	82.10	85.50	42.53	33.50	1040	37.99	45.46	60.70	78.10	78.10	41.36	33.20	1004
152	38.67	47.12	59.20	50.70	82.00	85.90	42.58	33.70	1037	37.94	45.51	60.70	78.10	78.10	41.36	33.20	1004
153	38.67	47.12	59.20	50.80	82.00	85.90	42.68	33.70	1040	37.94	45.46	60.80	78.00	78.40	41.41	32.60	1007
154	38.72	47.12	59.30	50.80	82.10	86.40	42.72	33.50	1034	37.94	45.51	60.70	78.10	78.10	41.46	33.10	1004
155	38.82	47.22	59.30	50.80	82.20	86.00	42.72	32.90	1037	37.99	45.51	60.60	78.20	78.60	41.46	33.60	1010
156	38.92	47.27	59.30	50.80	82.20	85.40	42.77	34.20	1037	38.09	45.61	60.70	78.20	78.70	41.55	33.00	1004
157	38.87	47.31	59.40	50.90	82.30	85.70	42.82	32.70	1037	38.13	45.65	60.80	78.30	79.40	41.55	33.40	1004
158	38.87	47.31	59.40	50.90	82.30	85.70	42.92	33.00	1034	38.18	45.70	60.90	78.20	78.70	41.60	32.30	1004
159	38.87	47.31	59.40	51.00	82.30	86.30	42.92	30.80	1040	38.18	45.75	60.90	78.30	78.40	41.65	32.80	1007
160	38.92	47.31	59.40	51.10	82.10	86.10	42.97	33.30	1040	38.18	45.75	61.00	78.20	78.60	41.70	32.30	1004
161	38.96	47.41	59.50	51.00	82.10	85.80	43.02	33.90	1040	38.18	45.70	61.00	78.30	78.30	41.75	32.30	1004
162	39.06	47.46	59.50	51.10	82.20	86.40	43.07	33.90	1037	38.18	45.75	60.90	78.20	78.70	41.75	32.30	1004
163	39.16	47.51	59.50	51.10	82.30	86.00	43.12	33.70	1037	38.23	45.75	60.90	78.20	78.60	41.80	33.20	1007
164	39.16	47.51	59.60	51.20	82.30	85.70	43.12	33.30	1037	38.38	45.80	61.10	78.20	78.80	41.85	32.30	1004
165	39.16	47.51	59.70	51.20	82.30	86.40	43.16	32.30	1043	38.38	45.85	61.10	78.20	78.90	41.89	31.90	1004
166	39.16	47.56	59.60	51.20	82.30	86.20	43.21	31.80	1043	38.38	45.90	61.10	78.10	78.10	41.94	32.80	1004
167	39.11	47.56	59.70	51.20	82.30	85.80	43.26	34.20	1043	38.38	45.90	61.10	78.30	78.70	41.94	33.30	1007
168	39.26	47.71	59.70	51.20	82.30	86.70	43.31	33.00	1040	38.38	45.95	61.10	78.30	78.70	41.99	32.00	1010
169	39.31	47.71	59.70	51.20	82.30	86.10	43.31	33.90	1037	38.43	45.95	61.10	78.30	79.00	42.04	33.60	1004
170	39.36	47.71	59.70	51.30	82.30	86.60	43.36	32.60	1034	38.53	46.04	61.20	78.30	79.20	42.09	33.90	1004
171	39.31	47.75	59.80	51.40	82.30	85.60	43.41	32.90	1037	38.57	46.04	61.20	78.30	78.80	42.09	32.50	1002
172	39.31	47.75	59.80	51.40	82.30	86.00	43.46	31.90	1040	38.53	46.09	61.20	78.30	78.30	42.14	33.40	1007

173	39.31	47.71	59.80	51.40	82.30	85.80	43.51	32.90	1043	38.53	46.09	61.20	78.30	78.60	42.14	31.90	1007
174	39.40	47.75	59.80	51.40	82.30	86.50	43.51	32.40	1034	38.43	46.09	61.20	78.30	78.40	42.14	32.30	1007
175	39.50	47.80	59.80	51.50	82.30	85.80	43.55	32.30	1034	38.53	46.14	61.20	78.10	79.10	42.19	34.10	1004
176	39.55	47.80	59.90	51.50	82.30	86.00	43.65	32.60	1043	38.57	46.14	61.40	78.30	79.10	42.24	33.20	1007
177	39.50	47.90	59.80	51.50	82.30	86.10	43.65	32.60	1040	38.67	46.14	61.40	78.40	79.60	42.29	32.90	1002
178	39.45	47.85	59.90	51.50	82.30	86.30	43.70	32.50	1040	38.72	46.19	61.40	78.30	78.80	42.33	32.70	1002
179	39.50	47.90	59.90	51.60	82.30	86.90	43.70	32.30	1043	38.72	46.19	61.40	78.20	78.90	42.33	32.70	1002
180	39.50	47.90	60.00	51.60	82.30	86.20	43.70	33.40	1043	38.67	46.19	61.40	78.10	78.70	42.33	31.90	1002

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 10° (Data 3)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Illum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Illum (I)
0	27.05	27.05	26.70	28.00	26.90	26.80	26.95	26.10	996	27.10	27.10	26.50	27.00	27.00	26.95	25.30	988
1	27.29	30.13	39.40	28.80	48.10	50.10	26.95	31.00	996	27.20	30.91	43.90	41.50	46.20	26.95	29.20	1002
2	27.39	31.93	41.50	30.00	53.00	54.30	26.90	30.30	1004	27.29	33.15	47.20	46.50	51.40	27.00	30.60	1004
3	27.39	32.76	42.60	30.90	56.40	59.70	26.95	30.50	1010	27.44	33.89	48.20	50.60	55.80	26.95	31.00	1013
4	27.54	33.25	43.50	31.70	59.10	63.70	27.00	31.50	1013	27.69	34.23	48.90	54.00	59.30	27.00	30.10	1010
5	27.73	33.69	44.00	32.30	61.40	66.10	27.05	31.60	1013	27.88	34.57	49.40	56.80	61.40	27.15	31.00	1018
6	27.88	34.08	44.60	32.90	63.30	68.60	27.20	30.90	1018	27.98	34.86	49.90	59.20	64.00	27.25	29.60	1015
7	28.03	34.47	45.20	33.60	65.10	70.10	27.29	31.00	1021	28.08	35.16	50.30	61.10	65.70	27.39	30.80	1018
8	28.08	34.77	45.90	34.10	66.40	72.00	27.39	31.60	1018	28.17	35.35	50.80	62.90	67.20	27.54	31.20	1018
9	28.17	35.06	46.30	34.50	67.60	73.70	27.59	31.50	1021	28.37	35.60	51.10	64.30	68.10	27.69	32.30	1018
10	28.27	35.30	46.70	34.90	68.60	75.40	27.69	32.60	1021	28.47	35.79	51.40	65.70	69.40	27.83	31.10	1018
11	28.37	35.55	47.10	35.40	69.70	75.50	27.83	32.20	1021	28.52	35.99	51.70	66.60	70.40	27.98	31.20	1021
12	28.47	35.74	47.50	35.80	70.40	76.00	27.98	31.60	1021	28.56	36.08	52.00	67.70	70.80	28.08	31.80	1018
13	28.52	35.99	47.80	36.20	71.20	76.90	28.08	32.30	1023	28.66	36.18	52.30	68.40	71.50	28.22	31.30	1018
14	28.56	36.13	48.10	36.50	71.80	77.90	28.22	31.80	1021	28.76	36.38	52.40	69.10	72.60	28.37	32.30	1021
15	28.66	36.28	48.30	36.80	72.30	78.40	28.37	32.80	1021	28.91	36.47	52.80	69.80	72.60	28.52	32.10	1021
16	28.81	36.52	48.60	37.20	72.90	79.40	28.52	33.60	1023	28.96	36.62	53.00	70.60	73.70	28.71	32.80	1021
17	28.91	36.67	48.80	37.50	73.40	79.50	28.71	32.40	1021	29.05	36.77	53.20	71.10	74.00	28.86	31.80	1023
18	29.00	36.82	49.10	37.80	73.70	79.20	28.86	32.30	1021	29.15	36.87	53.30	71.40	74.10	29.00	31.40	1021
19	29.05	36.96	49.20	38.10	74.10	79.30	29.00	32.10	1023	29.20	36.96	53.50	71.70	74.20	29.20	31.70	1021
20	29.20	37.16	49.50	38.40	74.40	79.30	29.20	32.10	1023	29.30	37.11	53.70	72.10	75.00	29.35	32.60	1021
21	29.30	37.26	49.70	38.60	74.70	79.20	29.35	32.00	1023	29.35	37.16	53.70	72.40	75.40	29.54	33.30	1023
22	29.39	37.35	49.80	38.80	75.00	79.70	29.49	33.40	1023	29.44	37.30	53.80	72.80	75.50	29.64	32.10	1021
23	29.54	37.55	49.90	39.00	75.20	80.20	29.64	32.10	1023	29.64	37.50	54.00	73.10	75.80	29.83	32.60	1023
24	29.64	37.65	50.20	39.40	75.60	80.80	29.83	32.40	1023	29.74	37.55	54.20	73.30	75.60	30.03	32.40	1021
25	29.74	37.79	50.30	39.60	75.80	81.20	29.98	32.30	1021	29.83	37.65	54.40	73.40	75.50	30.18	32.60	1021
26	29.79	37.89	50.50	39.80	76.00	81.20	30.22	32.10	1021	29.93	37.74	54.50	73.60	76.00	30.32	32.30	1021
27	29.93	38.04	50.60	39.90	76.10	80.00	30.37	33.00	1023	29.98	37.84	54.50	73.80	75.50	30.47	31.80	1021
28	30.03	38.18	50.80	40.10	76.40	80.90	30.52	32.30	1021	30.08	37.94	54.60	73.90	76.00	30.62	32.30	1018

29	30.13	38.33	50.90	40.30	76.60	81.00	30.66	32.30	1023	30.18	38.04	54.70	74.10	75.70	30.81	32.10	1021
30	30.27	38.43	51.10	40.50	76.70	80.50	30.81	32.40	1021	30.27	38.13	54.80	74.40	76.50	31.01	33.20	1023
31	30.32	38.53	51.20	40.70	76.80	81.10	31.01	32.30	1021	30.42	38.28	55.00	74.50	76.50	31.15	32.20	1021
32	30.42	38.62	51.40	40.80	76.90	81.40	31.20	32.60	1021	30.52	38.38	55.20	74.50	76.40	31.25	32.30	1018
33	30.47	38.72	51.40	41.00	76.90	81.30	31.30	32.40	1021	30.57	38.43	55.20	74.60	76.10	31.40	32.80	1018
34	30.52	38.77	51.50	41.10	77.00	81.50	31.49	31.80	1021	30.62	38.53	55.30	74.60	76.30	31.59	32.10	1018
35	30.66	38.92	51.70	41.20	77.00	81.50	31.64	33.70	1021	30.71	38.62	55.40	74.90	76.40	31.74	32.10	1018
36	30.86	39.11	51.80	41.30	77.10	81.70	31.79	32.30	1021	30.81	38.72	55.50	74.90	77.40	31.84	32.00	1018
37	30.91	39.26	52.00	41.50	77.30	81.50	31.98	31.60	1026	30.91	38.82	55.50	74.90	77.30	31.98	32.70	1018
38	31.01	39.36	52.10	41.60	77.40	82.10	32.08	33.00	1040	31.10	38.92	55.70	75.20	77.50	32.18	33.30	1021
39	31.05	39.45	52.20	41.80	77.40	82.00	32.28	33.10	1053	31.25	39.06	55.80	75.20	77.50	32.32	32.30	1018
40	31.10	39.50	52.30	42.00	77.50	82.70	32.37	31.90	1026	31.30	39.16	55.90	75.20	77.50	32.47	33.90	1018
41	31.25	39.60	52.40	42.00	77.50	81.80	32.57	32.10	1026	31.40	39.26	56.00	75.20	77.50	32.62	30.60	1015
42	31.35	39.79	52.50	42.10	77.50	82.20	32.76	33.20	1026	31.49	39.31	56.00	75.20	76.70	32.76	32.00	1015
43	31.45	39.79	52.60	42.30	77.70	82.00	32.86	33.20	1026	31.54	39.40	56.20	75.40	76.30	32.86	32.70	1015
44	31.59	39.89	52.60	42.40	77.80	82.60	33.06	31.60	1029	31.64	39.50	56.30	75.50	77.00	33.01	32.30	1015
45	31.74	40.09	52.90	42.50	77.80	82.40	33.15	33.90	1029	31.69	39.50	56.30	75.50	76.60	33.15	32.90	1015
46	31.84	40.14	52.90	42.60	78.00	81.80	33.30	33.00	1026	31.69	39.60	56.30	75.50	76.60	33.30	33.40	1018
47	31.88	40.28	53.10	42.80	78.00	82.10	33.50	33.20	1026	31.88	39.79	56.40	75.70	77.50	33.45	33.20	1015
48	31.98	40.38	53.10	42.80	78.00	82.10	33.54	32.40	1026	31.98	39.89	56.40	75.80	77.40	33.54	32.80	1015
49	32.13	40.48	53.20	42.90	78.20	82.90	33.74	32.80	1026	32.08	39.99	56.60	75.80	77.30	33.69	33.00	1015
50	32.23	40.58	53.20	43.10	78.30	82.10	33.89	32.70	1023	32.18	40.04	56.80	76.00	77.40	33.84	31.90	1015
51	32.28	40.67	53.40	43.20	78.20	82.40	33.98	32.50	1021	32.28	40.19	56.90	76.10	77.20	33.94	32.30	1015
52	32.37	40.72	53.50	43.40	78.30	82.10	34.13	32.00	1021	32.28	40.23	57.00	76.10	77.10	34.03	32.70	1015
53	32.47	40.87	53.50	43.40	78.30	81.80	34.33	32.40	1023	32.37	40.28	57.00	76.10	77.70	34.23	32.30	1015
54	32.57	40.97	53.70	43.50	78.30	82.10	34.38	32.20	1021	32.47	40.38	57.10	76.10	77.30	34.33	32.90	1015
55	32.67	41.02	53.80	43.60	78.40	82.00	34.52	33.10	1023	32.52	40.43	57.10	76.30	77.90	34.42	33.00	1015
56	32.86	41.11	53.80	43.70	78.60	82.10	34.67	33.60	1021	32.67	40.53	57.10	76.30	77.80	34.57	32.40	1015
57	32.91	41.26	54.00	43.80	78.50	81.80	34.81	32.40	1021	32.81	40.67	57.20	76.30	77.70	34.67	33.10	1015
58	32.96	41.31	54.10	43.80	78.40	82.20	34.91	32.70	1021	32.91	40.72	57.40	76.40	78.30	34.72	32.80	1015
59	33.01	41.41	54.10	44.00	78.60	82.20	35.06	33.20	1023	32.96	40.82	57.50	76.60	77.40	34.91	33.20	1010
60	33.15	41.46	54.20	44.10	78.60	82.10	35.16	31.80	1021	32.96	40.87	57.50	76.30	77.70	35.01	31.30	1015
61	33.25	41.60	54.30	44.20	78.70	82.00	35.30	32.60	1023	33.06	40.97	57.50	76.20	76.80	35.11	32.80	1010
62	33.40	41.70	54.40	44.30	78.80	82.30	35.40	33.10	1021	33.15	41.02	57.70	76.50	77.20	35.25	33.40	1013
63	33.45	41.80	54.50	44.30	78.70	82.60	35.50	33.10	1021	33.25	41.06	57.70	76.50	78.30	35.35	33.30	1007
64	33.54	41.85	54.70	44.60	78.90	82.70	35.69	33.40	1021	33.40	41.16	57.80	76.60	77.90	35.45	32.60	1007

65	33.54	41.94	54.70	44.60	78.90	83.40	35.79	32.50	1021	33.45	41.26	57.80	76.60	77.70	35.55	32.70	1010
66	33.64	42.04	54.80	44.60	78.90	82.60	35.89	33.80	1023	33.54	41.36	57.90	76.60	77.70	35.69	33.90	1015
67	33.79	42.14	54.80	44.70	79.00	82.20	35.99	32.60	1021	33.64	41.46	58.00	76.50	77.00	35.84	33.40	1007
68	33.94	42.24	54.90	44.80	79.00	83.20	36.13	34.50	1023	33.64	41.50	58.00	76.50	77.20	35.89	32.60	1010
69	33.98	42.29	55.10	44.90	79.20	82.40	36.23	32.60	1021	33.74	41.55	58.10	76.60	77.50	35.94	32.40	1015
70	34.03	42.33	55.10	45.10	79.10	82.60	36.38	32.80	1021	33.89	41.65	58.20	76.70	78.30	36.08	32.30	1010
71	34.03	42.38	55.20	45.10	79.20	82.90	36.47	33.60	1021	33.98	41.80	58.30	76.70	77.80	36.18	32.40	1010
72	34.08	42.48	55.30	45.20	79.20	83.70	36.57	33.20	1021	34.08	41.85	58.30	76.80	77.70	36.28	31.90	1007
73	34.23	42.58	55.30	45.20	79.10	83.00	36.67	32.80	1021	34.18	41.99	58.50	76.80	77.60	36.43	32.80	1007
74	34.38	42.63	55.40	45.40	79.20	82.80	36.77	32.90	1021	34.18	41.99	58.60	76.80	77.90	36.47	31.80	1013
75	34.42	42.72	55.40	45.40	79.30	83.30	36.87	33.50	1021	34.18	42.04	58.60	76.80	78.10	36.62	32.80	1010
76	34.47	42.77	55.70	45.50	79.30	82.40	37.01	32.30	1021	34.33	42.09	58.60	76.90	77.90	36.67	32.80	1010
77	34.52	42.87	55.70	45.60	79.30	82.90	37.06	33.20	1021	34.42	42.24	58.70	76.90	78.30	36.77	33.70	1010
78	34.57	42.97	55.70	45.80	79.30	82.70	37.16	32.30	1021	34.52	42.29	58.80	77.00	78.60	36.91	32.90	1010
79	34.67	42.97	55.70	45.80	79.30	82.90	37.30	32.20	1021	34.57	42.33	58.90	77.00	78.30	36.96	33.70	1013
80	34.77	43.02	55.80	45.80	79.40	83.20	37.45	34.50	1018	34.62	42.43	58.90	77.00	78.10	37.06	32.40	1013
81	34.86	43.07	55.90	45.90	79.40	83.40	37.45	33.60	1018	34.67	42.48	59.10	77.10	78.40	37.16	32.90	1013
82	35.01	43.21	56.00	46.00	79.50	83.20	37.55	32.60	1015	34.72	42.53	59.10	77.00	78.30	37.26	32.80	1010
83	35.01	43.31	56.10	46.00	79.60	82.40	37.65	32.10	1015	34.77	42.53	59.10	76.90	77.60	37.40	32.60	1010
84	35.06	43.41	56.10	46.10	79.60	83.20	37.74	32.90	1015	34.81	42.63	59.10	76.90	77.80	37.45	33.10	1010
85	35.16	43.46	56.30	46.20	79.60	83.00	37.84	31.80	1015	34.86	42.82	59.00	76.90	78.10	37.45	34.40	1010
86	35.21	43.51	56.30	46.30	79.60	82.60	37.94	31.90	1015	35.01	42.82	59.00	77.00	78.50	37.60	32.60	1013
87	35.30	43.60	56.30	46.30	79.70	83.00	38.04	33.80	1013	35.06	42.87	59.10	77.00	78.50	37.70	33.50	1010
88	35.35	43.65	56.40	46.40	79.70	82.60	38.13	32.40	1015	35.11	42.92	59.10	77.10	78.10	37.74	32.40	1013
89	35.45	43.80	56.50	46.50	79.70	83.00	38.18	31.80	1015	35.21	43.02	59.10	77.20	78.30	37.84	34.20	1010
90	35.45	43.80	56.60	46.60	79.70	83.00	38.28	32.60	1013	35.30	43.07	59.10	77.20	78.60	37.94	33.40	1018
91	35.50	43.85	56.60	46.60	79.70	82.80	38.38	32.10	1015	35.45	43.21	59.20	77.30	78.20	37.99	32.40	1010
92	35.60	43.90	56.60	46.60	79.70	82.60	38.48	32.80	1015	35.50	43.26	59.40	77.40	78.30	38.09	32.80	1010
93	35.69	43.95	56.80	46.80	79.80	82.90	38.62	32.50	1013	35.50	43.31	59.40	77.40	78.10	38.18	32.80	1010
94	35.84	44.04	56.80	46.80	79.90	83.70	38.62	33.40	1015	35.55	43.31	59.40	77.50	78.90	38.28	33.90	1010
95	35.79	44.09	56.90	46.90	79.90	83.20	38.77	31.90	1015	35.60	43.36	59.40	77.50	78.70	38.33	33.20	1007
96	35.89	44.14	56.90	46.90	79.90	83.80	38.82	31.90	1015	35.69	43.41	59.40	77.60	78.60	38.43	32.90	1010
97	35.99	44.24	56.90	47.00	79.90	84.00	38.92	33.00	1018	35.79	43.55	59.60	77.60	78.00	38.53	32.00	1010
98	35.99	44.29	57.10	47.10	80.00	82.60	39.01	33.70	1015	35.79	43.60	59.70	77.70	78.00	38.57	33.90	1010
99	36.13	44.38	57.10	47.20	80.00	83.50	39.01	33.60	1018	35.89	43.60	59.70	77.70	78.10	38.62	32.50	1007
100	36.18	44.43	57.20	47.20	80.10	83.50	39.11	32.80	1015	35.89	43.60	59.60	77.50	78.00	38.72	32.30	1007

101	36.23	44.43	57.30	47.30	80.10	83.80	39.21	32.20	1018	35.89	43.60	59.60	77.50	78.30	38.77	32.90	1010
102	36.28	44.48	57.30	47.40	80.10	83.50	39.31	31.60	1018	35.99	43.75	59.70	77.50	78.70	38.87	33.40	1004
103	36.28	44.53	57.40	47.40	80.10	83.20	39.40	32.90	1018	36.08	43.80	59.70	77.40	78.60	38.96	32.50	1004
104	36.28	44.58	57.40	47.50	80.10	82.50	39.45	32.60	1015	36.13	43.80	59.80	77.50	78.10	39.01	33.30	1010
105	36.38	44.58	57.40	47.50	80.10	83.00	39.50	33.30	1015	36.18	43.90	60.00	77.60	78.60	39.11	32.20	1010
106	36.47	44.68	57.60	47.50	80.10	83.70	39.60	33.20	1018	36.23	43.90	60.00	77.60	77.80	39.16	32.60	1010
107	36.57	44.78	57.50	47.70	80.20	84.00	39.65	32.90	1015	36.28	43.95	60.00	77.70	78.20	39.21	32.40	1010
108	36.57	44.78	57.70	47.70	80.20	83.50	39.75	32.30	1015	36.28	43.99	60.00	77.70	78.30	39.31	34.20	1010
109	36.67	45.26	57.70	47.70	80.20	83.60	39.79	32.10	1015	36.38	44.04	60.00	77.70	78.10	39.40	33.60	1010
110	36.67	45.02	57.50	47.80	80.30	83.10	39.89	32.80	1015	36.47	44.19	60.10	77.80	78.40	39.40	33.10	1013
111	36.77	45.07	57.40	47.80	80.20	83.10	39.94	33.80	1013	36.47	44.19	60.20	77.80	78.10	39.50	33.50	1010
112	36.77	45.02	57.40	47.90	80.20	83.80	39.99	34.50	1015	36.57	44.24	60.30	77.80	78.20	39.60	32.80	1010
113	36.96	45.17	57.40	48.00	80.40	83.20	40.09	32.10	1015	36.52	44.24	60.30	77.80	78.40	39.65	33.00	1007
114	36.96	45.21	57.40	48.10	80.40	83.20	40.19	32.60	1015	36.62	44.34	60.30	77.80	78.70	39.75	32.90	1010
115	37.06	45.31	57.50	48.10	80.40	83.30	40.19	32.60	1015	36.72	44.38	60.30	77.80	78.80	39.79	32.90	1004
116	37.11	45.36	57.50	48.20	80.40	83.20	40.28	31.90	1021	36.77	44.43	60.40	77.80	78.70	39.79	32.80	1015
117	37.06	45.36	57.50	48.20	80.40	83.50	40.38	32.40	1018	36.87	44.58	60.50	78.00	78.90	39.89	33.20	1013
118	37.16	45.36	57.50	48.30	80.40	83.40	40.43	33.30	1015	36.91	44.58	60.60	78.10	78.70	39.94	32.80	1015
119	37.21	45.41	57.50	48.40	80.60	83.60	40.53	33.70	1015	36.87	44.63	60.60	77.90	78.90	40.04	32.40	1015
120	37.35	45.56	57.70	48.50	80.70	82.90	40.58	32.90	1015	36.91	44.63	60.60	78.00	79.00	40.04	32.50	1013
121	37.35	45.61	57.70	48.50	80.60	83.30	40.58	32.50	1018	37.01	44.68	60.70	78.20	78.80	40.19	33.20	1013
122	37.35	45.61	57.70	48.60	80.60	83.70	40.67	32.80	1015	37.16	44.82	60.80	78.20	78.90	40.19	32.50	1013
123	37.40	45.65	57.80	48.60	80.60	83.70	40.77	32.00	1015	37.16	44.87	60.80	78.20	78.40	40.23	32.80	1013
124	37.60	45.70	57.80	48.60	80.60	84.00	40.82	33.60	1015	37.16	44.92	60.90	78.10	78.60	40.33	32.60	1015
125	37.60	45.75	57.90	48.60	80.70	84.70	40.87	33.90	1018	37.16	44.92	61.00	78.20	78.70	40.38	33.10	1013
126	37.60	45.75	58.00	48.70	80.70	84.10	40.92	32.40	1015	37.21	44.97	61.00	78.10	78.40	40.43	33.20	1010
127	37.65	45.80	58.00	48.90	80.90	83.70	40.97	33.00	1013	37.30	44.97	60.90	78.20	79.40	40.53	34.50	1015
128	37.65	45.85	58.00	48.90	80.90	83.80	41.02	32.60	1018	37.40	45.07	61.00	78.30	79.50	40.53	32.40	1015
129	37.65	45.85	58.00	48.90	80.80	83.00	41.16	32.80	1015	37.50	45.12	61.10	78.30	79.50	40.58	33.90	1013
130	37.70	45.85	58.00	49.00	80.70	83.90	41.16	32.40	1013	37.60	45.17	61.10	78.30	79.50	40.63	33.20	1018
131	37.79	45.95	58.00	48.90	80.60	83.70	41.26	33.20	1018	37.60	45.17	61.10	78.30	79.10	40.72	32.50	1015
132	37.89	46.00	58.10	49.00	80.70	83.50	41.31	32.90	1015	37.60	45.21	61.20	78.40	79.20	40.77	32.40	1015
133	37.89	46.09	58.20	49.00	80.80	83.60	41.36	32.40	1015	37.60	45.21	61.20	78.30	78.40	40.82	31.90	1015
134	37.94	46.09	58.30	49.10	80.80	83.80	41.41	32.70	1015	37.60	45.21	61.20	78.00	78.70	40.87	32.20	1013
135	37.94	46.14	58.30	49.10	80.80	83.80	41.46	32.80	1015	37.60	45.21	61.20	78.10	78.50	40.92	32.80	1015
136	37.94	46.14	58.30	49.10	80.70	83.90	41.50	31.90	1018	37.60	45.26	61.20	78.10	78.60	40.97	32.50	1015

137	37.99	46.24	58.30	49.10	80.70	82.50	41.55	33.10	1018	37.65	45.36	61.20	78.20	78.70	40.97	33.60	1013
138	38.13	46.29	58.30	49.20	80.70	83.70	41.60	34.20	1015	37.74	45.36	61.30	78.40	79.00	41.11	32.90	1015
139	38.18	46.34	58.30	49.30	80.80	83.40	41.70	33.20	1018	37.84	45.46	61.40	78.40	79.00	41.16	33.20	1013
140	38.18	46.34	58.40	49.40	80.90	84.10	41.75	33.00	1018	37.84	45.46	61.40	78.40	78.80	41.16	32.90	1015
141	38.18	46.39	58.40	49.30	80.90	83.60	41.75	33.20	1018	37.84	45.56	61.40	78.40	79.20	41.26	32.30	1013
142	38.23	46.44	58.50	49.40	80.90	83.40	41.85	32.20	1018	37.84	45.51	61.40	78.30	79.00	41.26	32.20	1013
143	38.28	46.48	58.60	49.40	81.00	83.80	41.89	32.80	1015	37.89	45.56	61.50	78.40	79.40	41.36	33.00	1010
144	38.38	46.53	58.60	49.40	81.10	83.30	41.89	32.60	1015	37.99	45.51	61.40	78.40	79.20	41.36	33.00	1015
145	38.38	46.58	58.60	49.50	81.10	83.70	41.94	32.40	1015	37.99	45.61	61.50	78.40	79.20	41.41	33.40	1015
146	38.38	46.58	58.80	49.50	81.10	83.20	42.04	32.90	1018	38.09	45.70	61.60	78.60	79.40	41.46	32.60	1013
147	38.38	46.63	58.70	49.60	81.10	83.30	42.14	32.20	1015	38.13	45.70	61.70	78.60	78.80	41.50	33.90	1010
148	38.43	46.63	58.70	49.60	81.00	84.10	42.14	32.20	1015	38.13	45.70	61.70	78.40	79.20	41.55	33.10	1013
149	38.57	46.73	58.80	49.70	81.10	84.10	42.14	33.60	1015	38.09	45.75	61.70	78.50	78.60	41.60	32.80	1010
150	38.62	46.73	58.80	49.70	81.20	84.30	42.19	34.10	1015	38.13	45.75	61.60	78.40	79.40	41.65	32.40	1010
151	38.67	46.78	58.80	49.70	81.20	84.70	42.24	33.20	1015	38.23	45.80	61.80	78.50	79.10	41.75	34.50	1010
152	38.67	46.88	58.80	49.80	81.20	83.10	42.29	32.60	1015	38.33	45.85	61.80	78.50	79.50	41.75	32.90	1010
153	38.67	46.92	58.90	49.80	81.20	83.80	42.33	32.40	1015	38.38	45.90	61.80	78.50	79.00	41.80	32.90	1013
154	38.72	46.92	58.90	49.80	81.20	84.30	42.38	33.10	1015	38.38	45.90	61.80	78.40	78.70	41.80	33.20	1010
155	38.77	46.92	58.90	49.80	81.20	84.10	42.43	33.70	1018	38.33	45.95	61.80	78.40	79.10	41.85	33.40	1010
156	38.82	46.97	59.00	49.90	81.30	84.30	42.48	34.30	1015	38.38	45.95	61.80	78.40	79.50	41.89	32.10	1010
157	38.87	47.02	59.10	50.00	81.30	83.80	42.53	32.40	1015	38.38	45.95	61.90	78.40	79.50	41.89	34.40	1013
158	38.87	47.02	59.10	50.00	81.30	84.30	42.58	33.80	1015	38.48	46.04	61.90	78.40	78.90	41.99	32.60	1010
159	38.87	47.07	59.10	50.10	81.20	84.00	42.63	32.30	1018	38.53	46.09	62.00	78.60	79.20	42.04	32.30	1010
160	38.92	47.12	59.10	50.10	81.30	83.50	42.68	33.70	1018	38.57	46.14	62.10	78.60	79.20	42.09	32.80	1010
161	38.96	47.17	59.20	50.10	81.30	84.10	42.72	32.60	1015	38.48	46.09	62.00	78.50	79.20	42.14	33.10	1010
162	39.01	47.22	59.20	50.10	81.30	84.00	42.72	32.90	1015	38.48	46.09	62.00	78.40	79.00	42.14	32.40	1010
163	39.06	47.27	59.30	50.10	81.40	84.10	42.77	32.80	1015	38.57	46.14	62.00	78.40	79.40	42.19	32.20	1013
164	39.01	47.27	59.40	50.20	81.40	84.10	42.82	32.30	1015	38.62	46.14	62.10	78.40	79.60	42.19	33.60	1015
165	39.06	47.31	59.30	50.20	81.40	83.80	42.87	33.00	1015	38.67	46.19	62.20	78.40	79.80	42.24	33.00	1015
166	39.16	47.31	59.40	50.30	81.50	84.00	42.92	33.70	1021	38.72	46.24	62.10	78.40	79.20	42.33	34.10	1015
167	39.16	47.31	59.30	50.20	81.50	83.90	42.92	33.20	1015	38.77	46.29	62.30	78.50	79.10	42.33	33.30	1018
168	39.21	47.41	59.40	50.30	81.50	84.40	42.92	33.40	1015	38.77	46.34	62.30	78.50	79.40	42.38	32.30	1018
169	39.26	47.46	59.50	50.30	81.60	83.50	43.02	32.50	1018	38.72	46.34	62.20	78.50	79.20	42.38	32.30	1015
170	39.26	47.46	59.60	50.50	81.70	84.10	43.07	32.80	1015	38.77	46.34	62.20	78.40	79.50	42.43	33.40	1015
171	39.26	47.51	59.60	50.50	81.70	84.10	43.12	32.10	1015	38.87	46.34	62.20	78.50	79.80	42.48	33.20	1015
172	39.31	47.51	59.50	50.50	81.70	84.10	43.12	33.70	1018	38.87	46.44	62.30	78.50	79.00	42.53	32.10	1015

173	39.45	47.61	59.70	50.50	81.70	84.30	43.16	32.80	1015	38.92	46.48	62.30	78.60	79.50	42.53	32.90	1021
174	39.40	47.61	59.70	50.50	81.70	83.70	43.21	32.90	1015	38.87	46.48	62.30	78.60	79.00	42.53	32.20	1018
175	39.36	47.61	59.70	50.60	81.80	84.40	43.26	31.60	1015	38.92	46.48	62.30	78.70	79.30	42.58	31.90	1015
176	39.36	47.66	59.70	50.60	81.70	84.50	43.31	32.70	1015	38.92	46.53	62.30	78.70	79.20	42.63	33.00	1015
177	39.45	47.66	59.70	50.60	81.70	84.10	43.31	32.40	1015	38.96	46.53	62.40	78.70	79.40	42.68	33.00	1015
178	39.50	47.71	59.70	50.60	81.70	84.20	43.31	32.80	1015	39.06	46.58	62.40	78.70	79.80	42.72	32.80	1021
179	39.55	47.71	59.70	50.60	81.80	84.30	43.41	32.30	1018	39.11	46.63	62.40	78.90	79.50	42.72	34.00	1015
180	39.50	47.71	59.80	50.70	81.80	84.30	43.41	32.80	1018	39.11	46.63	62.50	78.90	79.30	42.77	32.90	1021

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 30° (Data 1)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)
0	27.00	27.00	27.20	27.50	28.00	27.80	27.05	26.10	1013	27.10	27.10	26.60	27.80	27.60	27.10	25.90	977
1	27.20	29.98	38.50	28.40	45.50	48.10	27.00	29.30	1013	27.39	30.37	41.50	40.80	43.60	27.10	30.30	983
2	27.29	31.35	40.50	29.50	49.80	53.10	27.05	30.50	1013	27.49	32.42	44.30	45.40	48.20	27.10	30.70	985
3	27.39	32.03	41.40	30.30	52.70	56.50	27.00	31.30	1013	27.59	33.06	45.10	49.10	50.50	27.10	29.00	988
4	27.59	32.57	42.20	31.00	54.90	59.20	27.00	31.60	1013	27.69	33.30	45.70	52.10	53.40	27.20	29.70	994
5	27.83	33.01	42.80	31.50	56.80	61.20	27.10	32.00	1013	27.78	33.54	46.10	54.60	55.60	27.25	31.50	996
6	27.98	33.35	43.30	32.10	58.50	63.20	27.20	31.50	1016	28.03	33.89	46.50	56.90	57.70	27.29	31.40	999
7	28.03	33.64	43.80	32.60	60.00	64.60	27.29	31.00	1016	28.17	34.08	46.90	58.80	59.20	27.44	31.80	999
8	28.08	33.89	44.20	33.10	61.20	66.40	27.39	31.30	1022	28.22	34.28	47.10	60.20	60.60	27.59	30.80	1002
9	28.17	34.08	44.60	33.60	62.20	67.20	27.54	31.20	1019	28.27	34.42	47.50	61.50	61.50	27.69	31.00	1004
10	28.27	34.38	44.90	34.00	63.20	67.80	27.69	31.40	1024	28.32	34.57	47.80	62.60	62.40	27.83	31.60	1004
11	28.37	34.52	45.20	34.40	64.00	68.60	27.78	32.10	1024	28.42	34.72	48.00	63.70	63.20	27.98	31.50	1007
12	28.47	34.77	45.50	34.70	64.60	69.70	27.93	32.80	1024	28.52	34.86	48.20	64.50	63.70	28.08	31.40	1007
13	28.47	34.91	45.80	35.10	65.40	69.70	28.03	32.40	1027	28.56	35.01	48.50	65.20	64.30	28.17	32.10	1007
14	28.52	35.01	46.10	35.50	66.10	70.10	28.13	32.70	1027	28.66	35.11	48.70	65.80	64.50	28.32	31.60	1010
15	28.56	35.21	46.30	35.80	66.60	70.40	28.27	32.00	1027	28.71	35.21	48.80	66.30	65.20	28.47	32.20	1013
16	28.71	35.30	46.60	36.00	67.00	70.90	28.42	31.70	1027	28.81	35.30	49.10	66.90	65.60	28.56	32.30	1013
17	28.86	35.50	46.80	36.30	67.40	71.60	28.52	33.60	1032	28.91	35.45	49.10	67.20	65.80	28.76	32.20	1013
18	28.96	35.64	46.90	36.60	67.90	72.10	28.71	32.60	1032	28.96	35.55	49.50	67.70	66.20	28.86	31.80	1013
19	28.96	35.79	47.20	36.90	68.20	72.20	28.86	32.70	1030	29.00	35.64	49.50	68.10	65.80	29.05	31.40	1013
20	29.05	35.99	47.30	37.10	68.50	72.70	28.96	32.90	1027	29.10	35.79	49.70	68.30	66.00	29.15	31.30	1013
21	29.05	36.04	47.50	37.50	68.70	72.30	29.15	32.90	1027	29.20	35.89	49.80	68.60	66.40	29.30	32.60	1013
22	29.15	36.13	47.50	37.50	68.90	72.50	29.25	32.50	1035	29.35	35.99	49.80	68.90	66.90	29.44	32.40	1015
23	29.30	36.23	47.80	37.70	69.20	73.20	29.44	32.50	1035	29.44	36.08	50.10	69.20	67.10	29.59	32.60	1010
24	29.44	36.38	47.90	37.90	69.40	73.10	29.59	33.20	1035	29.54	36.18	50.20	69.40	66.60	29.69	32.10	1015
25	29.54	36.57	48.00	38.10	69.70	73.30	29.69	32.60	1032	29.59	36.33	50.30	69.50	67.30	29.83	32.60	1015
26	29.64	36.72	48.10	38.30	69.80	73.30	29.88	33.20	1030	29.69	36.43	50.50	69.80	67.60	29.98	33.00	1015
27	29.74	36.82	48.50	38.60	70.10	73.30	30.03	32.80	1035	29.74	36.57	50.70	70.10	67.80	30.13	32.80	1015
28	29.69	36.91	48.50	38.70	70.10	73.20	30.18	31.00	1035	29.83	36.62	50.80	70.10	67.70	30.32	33.20	1015

29	29.74	36.96	48.60	38.90	70.30	73.40	30.32	31.80	1035	29.98	36.77	50.80	70.40	68.10	30.42	32.50	1015
30	29.88	37.11	48.60	39.00	70.30	73.60	30.47	32.90	1035	30.13	36.87	51.10	70.40	68.30	30.52	32.90	1015
31	30.08	37.21	48.80	39.20	70.50	73.50	30.62	33.00	1030	30.18	36.96	51.10	70.60	68.00	30.71	33.20	1015
32	30.18	37.40	48.90	39.30	70.70	74.30	30.81	33.00	1032	30.32	37.11	51.20	70.80	68.20	30.81	33.40	1015
33	30.32	37.50	49.10	39.40	70.80	73.80	30.96	33.20	1030	30.37	37.16	51.20	70.90	68.00	30.96	32.80	1015
34	30.32	37.55	49.30	39.70	70.90	73.50	31.10	33.60	1027	30.42	37.21	51.20	70.90	68.00	31.10	32.00	1015
35	30.37	37.60	49.40	39.80	70.90	73.30	31.20	32.50	1024	30.47	37.30	51.40	70.90	68.30	31.20	31.90	1015
36	30.42	37.65	49.40	39.90	70.90	74.00	31.35	32.10	1027	30.52	37.35	51.50	71.10	68.30	31.35	33.00	1015
37	30.52	37.74	49.40	40.00	71.00	74.40	31.49	32.80	1027	30.62	37.50	51.60	71.20	68.30	31.49	33.10	1018
38	30.71	37.89	49.50	40.20	71.10	74.50	31.64	32.80	1030	30.76	37.55	51.70	71.40	68.90	31.59	33.00	1015
39	30.81	37.99	49.60	40.30	71.20	74.00	31.79	33.40	1027	30.86	37.60	51.80	71.50	68.70	31.74	32.90	1015
40	30.91	38.13	49.80	40.40	71.50	74.50	31.88	33.60	1030	30.91	37.74	51.90	71.50	68.60	31.88	32.80	1018
41	30.91	38.18	49.90	40.50	71.50	74.10	31.98	33.90	1027	31.05	37.84	51.90	71.50	68.60	31.98	33.10	1015
42	30.91	38.23	50.00	40.60	71.50	73.70	32.18	32.60	1030	31.15	37.94	52.00	71.70	68.90	32.08	32.70	1015
43	31.01	38.33	50.10	40.80	71.60	74.30	32.32	33.10	1030	31.25	38.04	52.10	71.80	68.60	32.23	33.40	1015
44	31.10	38.38	50.10	40.90	71.60	74.10	32.37	33.10	1027	31.25	38.09	52.10	71.70	68.90	32.37	32.90	1013
45	31.15	38.43	50.20	41.10	71.50	74.00	32.57	34.10	1027	31.30	38.13	52.20	71.70	69.00	32.47	33.10	1015
46	31.30	38.57	50.30	41.10	71.70	74.00	32.71	33.00	1027	31.35	38.23	52.30	71.80	69.00	32.57	32.70	1015
47	31.30	38.62	50.40	41.10	71.70	73.70	32.76	32.90	1027	31.45	38.33	52.40	71.90	69.10	32.76	32.60	1015
48	31.40	38.72	50.40	41.20	71.70	73.50	32.91	32.10	1027	31.59	38.38	52.40	71.90	69.00	32.81	33.30	1015
49	31.49	38.77	50.50	41.30	71.80	74.90	33.06	33.30	1024	31.64	38.48	52.50	72.00	69.10	32.91	33.50	1015
50	31.64	38.92	50.50	41.40	71.80	74.60	33.15	33.40	1027	31.69	38.57	52.60	72.10	69.10	33.06	33.20	1015
51	31.79	39.06	50.60	41.50	71.80	74.90	33.25	33.20	1022	31.88	38.67	52.60	72.10	69.50	33.15	33.60	1015
52	31.84	39.11	50.70	41.60	71.90	74.20	33.40	33.10	1024	31.93	38.72	52.70	72.10	69.30	33.30	33.40	1015
53	31.88	39.16	50.80	41.70	72.00	74.10	33.54	33.10	1024	31.93	38.77	52.60	72.00	68.40	33.35	32.90	1015
54	31.88	39.21	50.90	41.80	72.10	74.00	33.64	32.30	1027	31.98	38.87	52.80	72.00	68.70	33.50	33.50	1015
55	31.93	39.31	50.90	41.80	72.10	74.30	33.79	33.10	1022	32.03	38.92	52.80	72.10	68.90	33.59	32.80	1018
56	32.08	39.31	51.00	42.00	72.10	75.00	33.84	32.90	1024	32.18	39.06	53.00	72.30	69.20	33.74	32.90	1015
57	32.18	39.45	51.00	42.00	72.20	75.00	33.94	33.20	1024	32.28	39.11	52.90	72.30	69.10	33.84	32.60	1018
58	32.32	39.55	51.10	42.10	72.30	75.40	34.08	33.40	1024	32.37	39.21	53.10	72.50	69.70	33.94	33.90	1015
59	32.37	39.65	51.30	42.20	72.40	74.30	34.23	32.80	1027	32.47	39.31	53.20	72.50	69.50	33.98	34.20	1015
60	32.42	39.75	51.40	42.30	72.40	73.90	34.33	32.70	1022	32.47	39.36	53.20	72.60	69.50	34.13	32.40	1015
61	32.47	39.79	51.40	42.50	72.40	74.60	34.38	32.30	1024	32.47	39.40	53.30	72.50	69.30	34.28	32.00	1015
62	32.47	39.79	51.40	42.50	72.40	75.00	34.52	33.20	1024	32.57	39.45	53.30	72.50	69.50	34.33	33.40	1015
63	32.57	39.89	51.40	42.60	72.40	74.90	34.62	31.80	1022	32.67	39.50	53.40	72.60	69.80	34.42	32.60	1015
64	32.76	39.99	51.50	42.50	72.30	74.70	34.72	33.20	1027	32.76	39.55	53.50	72.60	69.50	34.52	32.60	1015

65	32.91	40.14	51.60	42.60	72.50	75.40	34.81	33.90	1022	32.81	39.70	53.50	72.60	69.20	34.62	33.00	1013
66	33.01	40.23	51.70	42.70	72.60	75.50	34.91	33.10	1019	32.96	39.79	53.60	72.70	69.80	34.72	32.90	1015
67	32.96	40.28	51.70	42.80	72.50	75.20	35.01	33.40	1022	33.01	39.84	53.70	72.80	69.20	34.81	33.20	1015
68	32.96	40.28	51.70	42.90	72.50	74.70	35.11	32.60	1024	33.11	39.89	53.80	72.90	69.70	34.91	33.10	1015
69	33.06	40.33	51.80	43.00	72.60	74.60	35.21	31.80	1024	33.15	39.94	53.80	72.80	69.20	35.01	32.90	1013
70	33.15	40.38	51.90	43.10	72.60	74.50	35.30	32.90	1022	33.15	40.04	53.80	72.70	69.50	35.11	32.90	1013
71	33.20	40.53	51.90	43.10	72.60	74.90	35.45	32.40	1022	33.20	40.09	53.70	72.80	69.60	35.16	33.40	1015
72	33.30	40.63	52.00	43.10	72.60	75.40	35.50	33.10	1019	33.25	40.09	53.80	72.80	69.60	35.30	32.70	1015
73	33.45	40.67	52.10	43.20	72.70	75.40	35.60	33.30	1024	33.40	40.23	53.80	72.90	69.70	35.35	33.60	1015
74	33.45	40.72	52.20	43.30	72.80	74.70	35.69	32.80	1024	33.45	40.28	54.00	73.00	69.40	35.45	32.90	1015
75	33.50	40.67	52.30	43.40	72.80	74.80	35.79	32.80	1022	33.59	40.38	54.00	72.90	69.50	35.50	32.90	1013
76	33.50	40.77	52.30	43.50	72.80	74.70	35.89	34.10	1016	33.59	40.43	54.00	73.00	69.40	35.64	33.00	1013
77	33.64	40.92	52.40	43.60	72.80	75.10	35.94	33.20	1016	33.59	40.48	54.00	72.90	69.30	35.69	32.50	1015
78	33.74	40.97	52.50	43.70	72.80	75.00	36.04	33.90	1019	33.64	40.53	54.10	72.90	69.50	35.79	33.60	1015
79	33.84	41.06	52.50	43.70	72.90	75.40	36.13	31.80	1019	33.74	40.53	54.10	73.10	70.00	35.89	33.90	1013
80	33.98	41.21	52.60	43.80	72.80	75.30	36.23	31.30	1016	33.84	40.67	54.10	73.10	69.80	35.94	33.10	1015
81	34.03	41.21	52.60	43.80	72.90	75.50	36.28	33.80	1016	33.94	40.67	54.30	73.10	69.80	36.04	33.10	1015
82	34.03	41.31	52.60	43.90	72.90	75.50	36.38	32.90	1016	34.03	40.77	54.30	73.30	70.40	36.13	33.30	1015
83	34.08	41.36	52.70	44.00	73.00	75.20	36.47	33.40	1019	34.08	40.82	54.50	73.30	70.10	36.18	32.60	1013
84	34.18	41.46	52.80	44.00	73.20	76.20	36.57	34.70	1011	34.13	40.87	54.50	73.40	70.00	36.28	33.70	1015
85	34.33	41.50	52.90	44.20	73.20	75.70	36.62	33.90	1013	34.18	40.92	54.50	73.40	70.20	36.33	33.10	1015
86	34.38	41.60	52.90	44.20	73.20	75.80	36.72	33.60	1013	34.18	40.97	54.60	73.30	69.70	36.47	32.80	1015
87	34.38	41.65	53.10	44.30	73.30	75.60	36.82	33.20	1016	34.23	40.97	54.60	73.40	69.80	36.52	32.10	1015
88	34.42	41.65	53.10	44.40	73.30	75.70	36.91	32.40	1013	34.28	41.06	54.60	73.50	69.90	36.57	33.10	1018
89	34.42	41.65	53.10	44.50	73.20	75.50	36.96	32.50	1016	34.42	41.16	54.60	73.50	70.10	36.67	32.70	1018
90	34.52	41.75	53.10	44.50	73.30	74.90	37.06	32.00	1016	34.47	41.26	54.70	73.50	69.80	36.72	33.50	1015
91	34.62	41.85	53.10	44.50	73.30	75.00	37.16	32.60	1016	34.52	41.31	54.80	73.60	69.90	36.82	32.80	1018
92	34.57	41.89	53.20	44.60	73.30	75.30	37.21	32.80	1013	34.47	41.31	54.90	73.60	69.50	36.91	33.60	1018
93	34.62	41.94	53.20	44.60	73.20	75.20	37.30	32.40	1016	34.52	41.36	54.90	73.50	69.80	36.96	33.10	1015
94	34.72	41.94	53.20	44.70	73.20	75.20	37.40	32.70	1016	34.67	41.41	54.90	73.50	70.20	37.06	33.90	1013
95	34.81	41.99	53.30	44.70	73.20	75.70	37.45	32.30	1016	34.72	41.46	54.90	73.70	70.50	37.06	33.40	1015
96	34.81	42.04	53.30	44.80	73.30	75.30	37.50	33.60	1016	34.77	41.55	55.00	73.70	70.20	37.16	32.90	1015
97	34.86	42.14	53.40	44.90	73.40	75.70	37.55	33.20	1016	34.81	41.60	55.10	73.70	70.70	37.26	33.60	1015
98	34.91	42.24	53.50	44.90	73.50	75.40	37.65	32.40	1016	34.91	41.70	55.10	73.80	70.40	37.30	33.60	1015
99	35.01	42.24	53.50	45.00	73.40	74.90	37.74	32.00	1016	35.01	41.70	55.20	73.70	70.00	37.40	33.90	1013
100	35.11	42.29	53.50	45.00	73.50	74.80	37.79	32.40	1016	34.96	41.70	55.20	73.70	69.80	37.45	33.90	1013

101	35.16	42.24	53.60	45.10	73.50	75.20	37.84	32.80	1016	35.01	41.75	55.10	73.70	70.40	37.50	33.30	1015
102	35.21	42.38	53.70	45.20	73.50	75.90	37.89	33.20	1016	35.06	41.80	55.20	73.70	70.40	37.55	33.60	1015
103	35.21	42.43	53.80	45.20	73.60	75.70	37.99	31.60	1019	35.11	41.85	55.20	73.80	70.30	37.65	33.60	1015
104	35.25	42.53	53.80	45.20	73.50	75.30	38.04	33.20	1019	35.21	41.89	55.30	73.80	70.30	37.65	33.70	1013
105	35.30	42.58	53.80	45.20	73.60	75.60	38.09	34.00	1016	35.30	41.94	55.40	73.90	70.70	37.74	33.70	1015
106	35.35	42.63	53.90	45.30	73.60	75.20	38.18	31.90	1016	35.25	41.99	55.40	73.80	69.90	37.84	33.40	1015
107	35.40	42.63	53.90	45.40	73.80	75.50	38.23	33.60	1016	35.25	42.04	55.50	73.80	69.80	37.84	33.20	1015
108	35.40	42.63	54.00	45.40	73.70	75.50	38.33	32.90	1019	35.30	42.04	55.40	73.70	70.20	37.94	33.10	1015
109	35.45	42.68	54.00	45.50	73.70	76.00	38.38	32.40	1019	35.35	42.09	55.50	73.80	70.40	37.99	33.20	1015
110	35.55	42.68	54.00	45.50	73.70	75.40	38.43	31.90	1019	35.45	42.19	55.50	73.80	70.50	38.04	33.70	1015
111	35.60	42.77	54.00	45.50	73.80	76.10	38.53	33.20	1019	35.45	42.24	55.50	73.70	70.30	38.13	33.50	1018
112	35.60	42.82	54.10	45.50	73.80	76.10	38.57	33.60	1019	35.45	42.19	55.60	73.80	70.60	38.18	32.20	1015
113	35.60	42.82	54.10	45.70	73.70	75.40	38.62	33.10	1016	35.50	42.24	55.60	73.70	70.20	38.23	33.50	1010
114	35.64	42.92	54.10	45.70	73.60	75.00	38.62	32.10	1016	35.50	42.24	55.50	73.70	70.10	38.28	32.60	1013
115	35.69	42.92	54.20	45.70	73.60	75.80	38.72	32.80	1022	35.60	42.24	55.50	73.80	70.10	38.28	32.60	1013
116	35.79	43.02	54.30	45.80	73.70	76.30	38.77	33.10	1022	35.64	42.33	55.50	73.80	70.00	38.38	32.80	1015
117	35.89	43.12	54.40	45.80	73.80	75.80	38.87	33.20	1049	35.64	42.33	55.70	73.90	70.70	38.43	32.80	1015
118	35.89	43.16	54.60	45.80	74.10	75.50	38.92	33.30	1046	35.64	42.38	55.70	73.80	70.10	38.48	33.70	1015
119	35.84	43.16	54.70	45.90	74.20	75.50	38.96	32.10	1035	35.60	42.33	55.70	73.80	70.10	38.53	32.60	1015
120	35.84	43.12	54.50	46.10	74.10	76.00	39.01	33.40	1024	35.69	42.38	55.70	73.80	70.50	38.62	32.90	1018
121	35.99	43.16	54.50	46.10	74.00	75.60	39.06	33.30	1022	35.79	42.48	55.70	73.80	70.30	38.62	33.40	1015
122	36.08	43.21	54.50	46.10	74.00	76.40	39.16	33.00	1019	35.89	42.53	55.80	74.00	70.30	38.67	32.80	1015
123	36.13	43.31	54.60	46.10	74.00	76.10	39.21	33.60	1016	35.84	42.53	55.80	74.00	70.20	38.72	33.10	1015
124	36.08	43.31	54.60	46.20	74.10	76.20	39.26	33.10	1019	35.89	42.58	55.90	74.00	69.90	38.77	33.20	1015
125	36.13	43.41	54.80	46.20	74.10	75.70	39.31	33.20	1019	35.84	42.58	55.80	73.90	70.00	38.82	32.70	1015
126	36.23	43.41	54.80	46.30	74.00	75.50	39.36	32.60	1022	35.99	42.63	55.80	74.00	70.40	38.87	32.80	1015
127	36.28	43.46	54.80	46.40	74.10	76.10	39.40	32.80	1016	35.99	42.63	56.00	74.00	70.40	38.92	33.00	1013
128	36.38	43.51	54.80	46.40	74.10	75.60	39.45	32.80	1016	35.99	42.68	56.00	74.10	70.20	39.01	33.10	1015
129	36.33	43.51	54.80	46.40	74.10	76.00	39.50	33.30	1016	36.04	42.72	56.00	74.10	69.70	39.01	31.80	1015
130	36.33	43.55	54.90	46.50	74.10	75.50	39.55	33.60	1019	35.99	42.72	56.00	74.10	70.40	39.01	33.00	1013
131	36.38	43.60	54.90	46.50	74.00	75.40	39.60	32.00	1019	36.04	42.77	56.00	74.00	70.00	39.06	32.80	1013
132	36.52	43.70	54.90	46.50	74.10	76.50	39.65	33.40	1016	36.18	42.77	56.00	74.00	69.80	39.11	32.90	1015
133	36.57	43.75	54.90	46.50	74.20	75.60	39.70	33.40	1016	36.23	42.87	56.00	74.10	69.80	39.16	32.30	1013
134	36.57	43.80	55.00	46.50	74.30	76.40	39.75	33.10	1022	36.23	42.92	56.10	74.10	70.10	39.21	32.30	1013
135	36.52	43.80	55.20	46.60	74.40	75.10	39.75	32.60	1024	36.23	42.92	56.10	74.00	70.40	39.26	32.40	1010
136	36.57	43.80	55.10	46.70	74.40	75.80	39.79	33.60	1027	36.28	42.97	56.10	74.00	70.40	39.31	32.80	1013

137	36.67	43.85	55.10	46.80	74.40	75.70	39.89	32.80	1027	36.28	42.97	56.10	74.00	70.10	39.31	32.60	1015
138	36.72	43.90	55.20	46.80	74.40	76.50	39.89	33.10	1024	36.38	43.02	56.10	74.00	70.40	39.36	33.00	1013
139	36.77	43.90	55.20	46.80	74.50	76.60	39.99	32.60	1016	36.38	43.02	56.30	74.10	70.00	39.40	32.10	1013
140	36.77	43.95	55.20	46.90	74.40	76.00	40.04	33.10	1013	36.38	43.02	56.20	74.10	69.80	39.40	32.60	1010
141	36.72	43.90	55.20	46.90	74.40	75.50	40.09	33.70	1011	36.38	43.02	56.20	74.00	70.00	39.50	32.50	1013
142	36.77	43.90	55.20	46.90	74.30	74.90	40.14	32.90	1011	36.38	43.07	56.20	74.10	70.30	39.55	32.30	1013
143	36.77	43.95	55.20	46.90	74.20	75.00	40.19	33.00	1011	36.52	43.16	56.30	74.10	70.60	39.55	32.70	1013
144	36.87	44.04	55.20	46.90	74.10	76.20	40.19	33.30	1013	36.52	43.16	56.30	74.20	70.30	39.60	32.50	1013
145	36.87	44.09	55.20	46.90	74.30	75.40	40.23	32.80	1016	36.57	43.16	56.40	74.20	70.00	39.60	33.20	1013
146	36.87	43.99	55.40	47.10	74.30	75.20	40.28	33.40	1013	36.57	43.16	56.40	74.10	70.40	39.70	33.10	1015
147	36.82	43.99	55.40	47.10	74.10	75.50	40.33	32.80	1005	36.57	43.21	56.30	74.00	70.20	39.70	32.70	1015
148	36.87	43.99	55.30	47.10	74.00	74.80	40.38	32.80	1008	36.57	43.21	56.30	74.10	70.60	39.75	33.10	1013
149	36.96	44.04	55.20	47.10	74.00	75.20	40.43	31.80	1008	36.67	43.21	56.30	74.20	70.20	39.79	33.10	1015
150	37.06	44.09	55.30	47.00	74.00	75.80	40.48	34.00	1008	36.72	43.31	56.40	74.30	70.40	39.79	33.00	1013
151	37.16	44.19	55.30	47.10	74.10	75.70	40.53	32.40	1008	36.72	43.36	56.40	74.20	70.30	39.84	32.90	1013
152	37.06	44.19	55.40	47.20	74.10	75.20	40.58	34.10	1005	36.67	43.31	56.50	74.20	70.70	39.84	32.40	1015
153	37.01	44.14	55.40	47.20	74.00	75.60	40.58	33.10	1003	36.72	43.36	56.50	74.30	70.30	39.89	32.40	1013
154	37.06	44.14	55.40	47.20	74.00	75.00	40.58	33.30	1005	36.77	43.41	56.50	74.30	70.70	39.89	33.40	1015
155	37.16	44.19	55.40	47.20	73.90	75.40	40.58	31.80	1005	36.82	43.41	56.60	74.40	70.60	39.99	32.60	1013
156	37.16	44.24	55.40	47.20	74.00	76.00	40.67	32.90	1011	36.82	43.46	56.60	74.40	70.10	39.99	33.00	1013
157	37.30	44.29	55.50	47.20	74.00	76.00	40.67	33.00	1005	36.82	43.51	56.60	74.30	70.70	39.99	32.40	1015
158	37.30	44.34	55.50	47.20	74.10	76.20	40.77	32.40	1005	36.82	43.46	56.50	74.30	70.60	40.09	33.20	1013
159	37.26	44.34	55.60	47.40	74.30	75.20	40.77	32.00	1005	36.91	43.51	56.60	74.40	70.40	40.09	33.20	1013
160	37.30	44.38	55.60	47.40	74.10	75.00	40.82	33.20	1005	36.96	43.51	56.60	74.30	70.40	40.14	32.20	1010
161	37.35	44.38	55.50	47.40	74.00	75.70	40.82	33.20	1008	36.91	43.60	56.60	74.30	70.30	40.14	33.00	1013
162	37.50	44.43	55.60	47.40	74.20	75.80	40.87	33.10	1008	36.91	43.55	56.60	74.30	70.50	40.14	32.30	1013
163	37.50	44.48	55.70	47.40	74.30	75.60	40.87	32.80	1005	36.87	43.60	56.60	74.20	70.60	40.19	32.40	1013
164	37.50	44.53	55.70	47.40	74.40	76.10	40.92	32.90	1005	37.01	43.60	56.60	74.40	71.20	40.23	33.20	1013
165	37.40	44.58	55.80	47.50	74.40	75.00	40.97	31.50	1003	37.06	43.65	56.70	74.40	70.60	40.28	32.60	1013
166	37.45	44.53	55.80	47.50	74.30	75.50	40.97	33.60	1003	37.11	43.70	56.80	74.40	70.70	40.28	32.10	1010
167	37.60	44.58	55.70	47.60	74.20	76.10	41.02	32.80	1005	37.06	43.75	56.80	74.30	70.30	40.33	32.90	1010
168	37.60	44.58	55.70	47.60	74.20	75.80	41.06	33.80	1005	37.11	43.75	56.80	74.20	70.50	40.33	31.80	1013
169	37.60	44.68	55.70	47.50	74.30	76.20	41.06	32.90	1005	37.06	43.70	56.80	74.30	70.70	40.38	32.80	1015
170	37.60	44.68	55.80	47.60	74.30	75.70	41.11	32.90	1008	37.16	43.75	56.80	74.30	70.30	40.38	32.70	1013
171	37.60	44.68	55.80	47.60	74.30	75.50	41.16	32.90	1011	37.21	43.80	56.80	74.60	70.80	40.43	33.10	1013
172	37.60	44.68	55.80	47.60	74.30	75.50	41.16	32.60	1008	37.21	43.80	56.90	74.60	70.60	40.48	33.20	1013

173	37.70	44.68	55.80	47.60	74.30	76.20	41.21	33.20	1011	37.16	43.80	56.80	74.40	70.30	40.53	32.30	1015
174	37.74	44.78	55.90	47.60	74.40	76.20	41.21	33.90	1005	37.16	43.80	56.90	74.50	70.90	40.58	32.80	1013
175	37.70	44.78	55.90	47.70	74.40	76.60	41.26	33.40	1005	37.21	43.80	56.90	74.60	70.90	40.58	32.90	1013
176	37.70	44.78	55.90	47.70	74.40	75.50	41.31	34.20	1005	37.26	43.85	56.90	74.50	70.40	40.58	32.50	1013
177	37.65	44.73	55.90	47.80	74.50	75.40	41.31	34.30	1005	37.26	43.85	56.90	74.60	70.40	40.58	32.30	1013
178	37.70	44.78	55.80	47.70	74.40	75.40	41.36	32.30	1008	37.26	43.90	57.00	74.60	70.60	40.58	32.10	1013
179	37.79	44.78	55.90	47.80	74.40	76.30	41.36	33.40	1011	37.30	43.85	57.00	74.60	71.00	40.63	32.40	1013
180	37.89	44.87	55.90	47.70	74.40	76.10	41.41	32.50	1005	37.35	43.90	57.00	74.60	71.30	40.67	33.40	1015

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 30° (Data 2)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Illum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Illum (I)
0	27.20	27.20	26.80	27.80	27.00	26.80	27.00	25.60	992	27.10	27.10	26.30	26.50	26.50	27.00	25.60	977
1	27.34	29.79	38.60	28.60	45.50	47.70	27.00	30.10	992	27.44	30.52	41.40	40.40	42.80	27.05	29.20	983
2	27.49	31.35	40.70	29.60	49.80	51.70	26.95	30.60	998	27.49	32.42	44.30	45.20	47.10	27.05	30.30	991
3	27.54	32.08	41.70	30.50	52.70	55.40	27.00	30.70	1003	27.49	33.01	45.20	48.90	50.50	27.05	30.00	994
4	27.73	32.62	42.40	31.10	54.90	57.80	27.05	30.50	1011	27.73	33.25	45.50	52.00	53.20	27.05	30.50	999
5	27.83	32.96	43.00	31.60	56.70	60.00	27.10	29.60	1014	27.93	33.59	46.00	54.60	55.70	27.10	30.60	999
6	27.93	33.30	43.50	32.30	58.40	61.50	27.20	30.80	1014	28.08	33.84	46.40	56.80	57.20	27.29	30.90	999
7	28.03	33.59	43.90	32.70	59.70	63.40	27.29	31.40	1014	28.17	34.13	46.80	58.40	58.80	27.39	30.60	1002
8	28.17	33.89	44.30	33.10	61.10	64.90	27.44	31.30	1014	28.27	34.33	47.10	60.00	60.10	27.49	30.80	1002
9	28.27	34.13	44.70	33.60	62.10	65.50	27.54	31.10	1017	28.32	34.42	47.40	61.40	60.90	27.69	31.70	1007
10	28.27	34.38	45.20	34.10	63.10	66.20	27.69	31.40	1020	28.42	34.52	47.70	62.50	61.70	27.78	31.80	1007
11	28.42	34.52	45.40	34.50	63.80	67.00	27.78	31.30	1020	28.52	34.72	47.90	63.50	62.50	27.88	31.30	1007
12	28.47	34.72	45.70	34.70	64.60	67.80	27.93	31.30	1020	28.61	34.91	48.10	64.30	63.20	28.08	31.60	1004
13	28.56	34.91	46.00	35.20	65.30	68.40	28.08	32.40	1020	28.61	35.01	48.40	65.10	63.80	28.17	31.50	1004
14	28.66	35.11	46.30	35.50	65.90	69.30	28.17	31.60	1020	28.66	35.11	48.50	65.70	64.10	28.27	31.10	1007
15	28.71	35.25	46.50	35.80	66.40	69.70	28.32	31.90	1025	28.81	35.21	48.80	66.30	64.50	28.42	32.10	1010
16	28.76	35.35	46.80	36.10	66.90	69.80	28.47	31.70	1025	28.91	35.30	48.90	66.70	64.80	28.56	31.20	1010
17	28.86	35.55	46.90	36.30	67.10	69.50	28.61	31.80	1025	29.00	35.50	49.10	67.30	65.50	28.71	31.80	1007
18	28.96	35.69	47.10	36.70	67.60	70.10	28.76	31.80	1025	29.00	35.60	49.40	67.70	65.50	28.86	30.30	1010
19	29.05	35.84	47.40	36.80	68.00	70.70	28.91	32.30	1025	29.10	35.69	49.50	68.00	65.70	29.00	32.90	1010
20	29.15	35.99	47.50	37.20	68.40	70.20	29.05	32.80	1025	29.20	35.84	49.70	68.30	66.00	29.15	32.10	1010
21	29.15	36.04	47.70	37.30	68.60	70.40	29.20	32.30	1025	29.35	35.94	49.80	68.60	65.80	29.25	31.60	1007
22	29.25	36.18	47.80	37.60	68.90	70.50	29.35	32.10	1022	29.44	36.04	49.80	68.80	66.30	29.44	32.10	1007
23	29.39	36.28	47.80	37.70	69.00	71.20	29.49	32.00	1025	29.49	36.13	50.10	69.10	66.20	29.59	31.80	1010
24	29.54	36.43	48.10	37.90	69.40	72.00	29.64	32.50	1022	29.59	36.28	50.30	69.30	66.50	29.74	31.80	1010
25	29.59	36.57	48.30	38.10	69.40	71.40	29.74	33.20	1025	29.59	36.33	50.30	69.40	66.70	29.83	31.70	1010
26	29.69	36.67	48.50	38.30	69.60	71.70	29.93	31.80	1028	29.74	36.38	50.40	69.50	67.10	30.03	31.90	1010
27	29.74	36.77	48.50	38.50	69.70	71.00	30.08	32.10	1025	29.83	36.52	50.50	69.70	67.20	30.13	31.40	1010
28	29.83	36.87	48.60	38.60	69.90	72.30	30.22	31.50	1028	29.93	36.62	50.60	70.00	67.30	30.27	31.40	1010

29	30.03	37.01	48.80	38.80	70.10	72.50	30.37	31.80	1025	29.98	36.77	50.80	70.00	67.60	30.42	32.60	1010
30	30.08	37.16	48.90	39.00	70.20	71.80	30.52	32.60	1025	30.03	36.82	50.80	70.00	67.20	30.57	32.20	1010
31	30.08	37.26	49.10	39.10	70.40	72.10	30.66	31.50	1028	30.13	36.87	51.00	70.10	67.60	30.71	31.50	1015
32	30.18	37.30	49.10	39.30	70.50	72.40	30.81	32.50	1028	30.22	36.96	51.10	70.40	67.80	30.81	32.90	1015
33	30.27	37.40	49.20	39.40	70.60	72.40	30.96	32.30	1028	30.37	37.11	51.10	70.50	68.00	30.96	32.20	1010
34	30.47	37.55	49.40	39.50	70.70	72.40	31.15	32.40	1025	30.47	37.16	51.20	70.60	67.30	31.15	31.40	1010
35	30.52	37.60	49.50	39.70	70.80	72.50	31.20	32.40	1025	30.52	37.30	51.40	70.70	68.00	31.20	32.70	1010
36	30.57	37.74	49.70	39.90	71.10	72.60	31.35	32.00	1028	30.52	37.35	51.40	70.60	67.70	31.35	31.70	1010
37	30.62	37.79	49.70	40.00	71.10	73.00	31.49	32.20	1025	30.62	37.40	51.40	70.70	67.80	31.49	32.60	1010
38	30.76	37.89	49.80	40.10	71.20	73.20	31.64	32.50	1025	30.71	37.55	51.60	71.10	68.20	31.59	32.70	1010
39	30.86	37.99	49.80	40.20	71.20	72.60	31.79	32.30	1025	30.91	37.55	51.60	71.10	68.10	31.74	32.10	1010
40	30.91	38.09	50.00	40.40	71.30	72.70	31.93	32.40	1025	30.96	37.74	51.80	71.20	68.30	31.88	32.60	1013
41	30.96	38.13	50.10	40.50	71.40	72.30	32.03	32.10	1025	30.96	37.79	51.80	71.20	68.10	31.98	31.20	1010
42	31.01	38.28	50.30	40.60	71.40	72.60	32.18	32.80	1030	31.05	37.79	51.90	71.20	68.20	32.13	31.90	1010
43	31.20	38.38	50.30	40.70	71.50	72.60	32.32	32.10	1028	31.20	37.89	51.80	71.30	68.40	32.28	32.70	1010
44	31.30	38.48	50.40	40.90	71.70	72.10	32.42	31.60	1028	31.30	37.99	52.00	71.50	68.30	32.32	32.40	1010
45	31.35	38.57	50.50	40.90	71.60	72.80	32.57	31.80	1028	31.35	38.09	52.10	71.50	68.20	32.52	32.30	1007
46	31.40	38.62	50.60	41.10	71.80	72.60	32.76	33.10	1028	31.40	38.23	52.20	71.40	68.70	32.62	31.70	1010
47	31.49	38.72	50.60	41.10	71.70	73.10	32.81	32.30	1036	31.45	38.23	52.30	71.40	68.00	32.76	31.80	1010
48	31.59	38.82	50.80	41.30	71.90	73.20	32.96	32.20	1028	31.59	38.33	52.30	71.50	69.00	32.81	32.20	1010
49	31.69	38.92	50.80	41.30	71.90	73.20	33.11	32.50	1028	31.69	38.43	52.30	71.50	68.60	32.96	31.60	1013
50	31.79	39.01	50.90	41.40	72.00	73.80	33.20	33.10	1028	31.74	38.53	52.50	71.70	68.30	33.06	32.40	1010
51	31.84	39.11	51.00	41.60	72.10	73.20	33.30	32.90	1025	31.88	38.62	52.50	71.80	68.70	33.15	32.00	1010
52	31.84	39.11	51.10	41.70	71.90	72.60	33.50	32.40	1028	31.88	38.67	52.60	71.70	68.50	33.30	32.90	1007
53	31.98	39.26	51.10	41.70	72.00	73.20	33.54	32.40	1028	31.98	38.72	52.60	71.60	68.50	33.45	31.60	1007
54	32.08	39.31	51.20	41.80	72.10	73.30	33.64	32.80	1028	31.98	38.77	52.80	71.80	68.30	33.54	31.70	1010
55	32.18	39.40	51.20	42.00	72.30	72.90	33.79	33.70	1028	32.13	38.92	52.80	72.00	68.20	33.59	32.50	1010
56	32.28	39.50	51.50	42.10	72.30	73.10	33.94	31.90	1028	32.28	39.01	52.80	72.10	68.20	33.74	31.60	1007
57	32.28	39.65	51.40	42.20	72.30	73.10	34.03	32.80	1030	32.32	39.06	52.90	72.10	68.50	33.84	32.30	1010
58	32.37	39.70	51.40	42.20	72.40	73.10	34.13	32.60	1030	32.37	39.11	53.00	72.20	68.50	33.94	32.20	1010
59	32.47	39.79	51.50	42.20	72.50	73.10	34.28	32.80	1030	32.47	39.21	53.00	72.10	68.50	34.08	31.60	1007
60	32.62	39.84	51.60	42.30	72.60	73.00	34.33	32.30	1025	32.47	39.21	53.10	72.20	68.90	34.13	31.60	1010
61	32.67	39.89	51.60	42.50	72.60	72.40	34.47	32.30	1025	32.67	39.36	53.20	72.30	68.40	34.28	32.60	1004
62	32.67	39.94	51.70	42.60	72.60	72.60	34.57	32.40	1028	32.71	39.40	53.20	72.40	68.80	34.33	32.70	1007
63	32.81	40.09	51.70	42.60	72.50	72.40	34.67	32.10	1025	32.71	39.50	53.20	72.30	68.60	34.42	31.00	1007
64	32.86	40.09	51.70	42.70	72.60	73.40	34.81	32.00	1025	32.81	39.50	53.20	72.20	68.30	34.52	30.60	1007

65	33.01	40.23	51.80	42.80	72.60	73.40	34.91	32.80	1025	32.86	39.60	53.40	72.30	69.10	34.62	32.10	1010
66	33.11	40.28	51.90	42.90	72.70	73.50	35.01	32.90	1028	32.96	39.70	53.40	72.40	68.70	34.72	31.90	1010
67	33.11	40.38	52.00	42.90	72.70	72.50	35.11	31.70	1028	33.11	39.84	53.50	72.60	69.40	34.86	32.40	1010
68	33.15	40.38	52.00	43.00	72.60	72.90	35.21	32.60	1025	33.11	39.89	53.50	72.60	68.90	34.96	32.40	1007
69	33.25	40.48	52.10	43.10	72.70	73.80	35.30	32.30	1025	33.15	39.89	53.60	72.40	68.50	35.01	31.00	1007
70	33.35	40.58	52.10	43.10	72.70	73.60	35.40	33.00	1025	33.20	39.94	53.70	72.40	69.20	35.11	32.20	1007
71	33.40	40.67	52.20	43.30	72.90	73.30	35.50	32.80	1025	33.30	39.99	53.70	72.60	69.10	35.21	32.70	1007
72	33.45	40.67	52.30	43.40	72.90	72.90	35.60	32.80	1022	33.45	40.09	53.80	72.80	69.20	35.30	32.60	1007
73	33.54	40.72	52.30	43.50	72.80	73.20	35.69	31.60	1022	33.50	40.19	53.80	72.80	69.60	35.40	32.50	1013
74	33.59	40.82	52.40	43.50	72.90	73.80	35.84	32.90	1022	33.54	40.28	54.00	72.90	69.20	35.45	31.90	1013
75	33.69	40.87	52.50	43.60	72.90	73.20	35.89	32.40	1022	33.59	40.33	53.90	72.90	69.30	35.55	32.10	1010
76	33.74	40.97	52.60	43.60	72.90	73.10	35.99	32.60	1022	33.64	40.33	54.00	72.90	69.40	35.64	31.90	1010
77	33.79	41.02	52.70	43.80	73.00	73.60	36.04	33.70	1022	33.79	40.43	54.00	72.90	69.40	35.79	32.70	1004
78	33.89	41.06	52.70	43.80	72.90	74.00	36.13	31.30	1020	33.89	40.53	54.10	73.00	69.40	35.84	32.90	1010
79	33.98	41.16	52.70	43.80	72.90	73.80	36.23	32.80	1020	33.89	40.63	54.10	73.00	69.10	35.89	33.60	1007
80	34.03	41.21	52.80	43.90	72.90	73.80	36.33	32.40	1020	33.94	40.67	54.10	72.90	69.40	35.99	31.00	1010
81	34.13	41.31	52.90	44.00	73.10	73.20	36.43	31.90	1020	33.98	40.67	54.10	72.80	68.70	36.08	31.60	1010
82	34.13	41.36	53.00	44.10	73.10	73.40	36.47	33.50	1022	34.03	40.67	54.10	72.80	69.20	36.13	31.90	1007
83	34.18	41.41	52.90	44.20	73.00	73.60	36.62	32.30	1020	34.18	40.82	54.30	73.10	69.40	36.23	32.30	1004
84	34.33	41.46	52.90	44.20	73.00	73.90	36.67	31.80	1020	34.28	40.92	54.40	73.10	69.40	36.28	31.90	1007
85	34.38	41.55	53.10	44.30	73.00	73.70	36.77	32.30	1017	34.23	40.97	54.50	73.20	69.40	36.43	33.20	1010
86	34.42	41.60	53.10	44.40	73.20	73.60	36.82	32.30	1020	34.28	40.97	54.50	73.10	69.30	36.47	33.10	1010
87	34.47	41.65	53.10	44.50	73.10	73.60	36.91	33.40	1017	34.33	40.97	54.60	73.20	69.40	36.52	32.40	1007
88	34.42	41.70	53.20	44.50	73.00	73.90	37.01	31.10	1020	34.42	41.06	54.50	73.20	69.70	36.67	32.70	1007
89	34.52	41.75	53.20	44.50	73.10	73.50	37.06	32.30	1020	34.52	41.16	54.60	73.20	69.50	36.72	31.90	1010
90	34.62	41.80	53.20	44.60	73.10	73.30	37.16	31.80	1020	34.57	41.21	54.60	73.40	69.50	36.77	31.80	1007
91	34.72	41.85	53.40	44.60	73.20	73.70	37.21	33.30	1017	34.52	41.26	54.70	73.30	69.20	36.87	31.70	1004
92	34.77	41.94	53.40	44.70	73.10	73.70	37.35	32.60	1017	34.62	41.31	54.70	73.20	69.50	36.96	32.00	1007
93	34.77	41.94	53.40	44.80	73.10	73.60	37.45	31.90	1014	34.67	41.36	54.80	73.40	70.20	37.01	32.40	1007
94	34.81	42.04	53.40	44.80	73.10	73.80	37.45	32.00	1017	34.77	41.41	54.80	73.40	69.50	37.06	32.60	1004
95	34.91	42.09	53.40	44.80	73.20	73.50	37.50	31.60	1017	34.81	41.46	54.90	73.50	69.70	37.11	32.30	1007
96	34.96	42.14	53.50	44.90	73.40	73.80	37.55	31.80	1020	34.91	41.50	55.00	73.60	69.60	37.21	33.20	1004
97	34.96	42.24	53.70	45.00	73.40	73.40	37.65	33.40	1017	34.86	41.60	55.00	73.40	69.40	37.26	31.60	1007
98	35.01	42.24	53.70	45.20	73.40	73.50	37.74	33.50	1020	34.96	41.70	55.10	73.60	70.00	37.40	32.10	1004
99	35.11	42.29	53.70	45.10	73.30	73.30	37.79	31.50	1014	35.06	41.70	55.10	73.60	69.80	37.45	32.60	1004
100	35.16	42.33	53.80	45.10	73.40	73.50	37.84	31.70	1014	35.11	41.75	55.10	73.60	69.80	37.45	33.00	1004

101	35.25	42.38	53.80	45.20	73.40	73.80	37.94	32.60	1017	35.16	41.85	55.10	73.70	69.30	37.55	33.30	1004
102	35.25	42.43	53.80	45.30	73.50	74.10	37.99	33.60	1014	35.16	41.85	55.20	73.40	69.70	37.55	31.80	1002
103	35.30	42.48	53.90	45.40	73.50	73.80	38.04	33.20	1014	35.21	41.85	55.20	73.40	69.40	37.65	31.30	1002
104	35.35	42.53	53.90	45.40	73.40	73.20	38.13	31.30	1017	35.25	41.89	55.20	73.40	69.70	37.74	31.80	1004
105	35.40	42.58	54.00	45.40	73.40	73.10	38.23	32.10	1017	35.35	41.94	55.20	73.50	69.60	37.84	32.10	1004
106	35.50	42.63	54.00	45.40	73.50	73.60	38.28	31.90	1017	35.35	42.04	55.30	73.60	69.40	37.79	32.70	1004
107	35.55	42.63	54.00	45.50	73.50	73.80	38.28	33.30	1017	35.45	42.09	55.40	73.70	69.60	37.94	31.80	1004
108	35.60	42.72	54.10	45.70	73.60	73.40	38.38	31.90	1014	35.50	42.19	55.50	73.70	69.70	37.99	30.60	999
109	35.60	42.77	54.10	45.70	73.50	74.10	38.48	32.10	1014	35.45	42.14	55.50	73.60	70.10	38.04	31.10	1004
110	35.69	42.82	54.10	45.70	73.50	74.10	38.53	32.00	1014	35.60	42.24	55.50	73.50	69.70	38.09	31.60	1002
111	35.79	42.92	54.10	45.70	73.50	73.60	38.57	32.40	1014	35.60	42.24	55.50	73.60	69.50	38.18	32.40	999
112	35.79	42.97	54.20	45.80	73.60	73.50	38.62	32.70	1014	35.69	42.29	55.50	73.70	69.90	38.23	32.00	999
113	35.79	42.97	54.30	45.90	73.50	74.10	38.67	32.60	1014	35.69	42.38	55.70	73.70	70.00	38.23	32.40	1002
114	35.84	43.02	54.20	45.90	73.50	73.80	38.77	31.80	1014	35.74	42.43	55.70	73.70	69.70	38.33	31.40	1004
115	35.94	43.02	54.30	45.90	73.60	74.00	38.82	32.20	1014	35.69	42.33	55.70	73.70	69.70	38.38	31.80	1002
116	35.99	43.07	54.40	45.90	73.70	73.20	38.92	31.70	1014	35.74	42.33	55.70	73.80	69.40	38.48	32.10	1002
117	35.99	43.12	54.50	46.00	73.80	73.60	38.96	31.40	1014	35.84	42.38	55.70	73.90	70.30	38.48	32.30	999
118	35.99	43.16	54.50	46.10	73.80	73.50	39.01	33.50	1014	35.99	42.53	55.80	73.90	70.20	38.53	33.20	999
119	36.04	43.21	54.50	46.10	73.70	73.80	39.01	32.70	1014	35.99	42.58	55.80	73.90	69.70	38.57	32.00	1004
120	36.13	43.26	54.50	46.10	73.60	73.70	39.11	32.10	1014	35.99	42.63	55.90	73.80	69.30	38.67	30.50	1002
121	36.23	43.31	54.50	46.10	73.60	73.70	39.16	32.30	1014	35.99	42.63	55.90	73.80	69.70	38.72	31.20	1004
122	36.18	43.36	54.60	46.20	73.70	74.00	39.21	33.80	1014	36.08	42.63	55.90	74.00	69.90	38.77	32.40	1004
123	36.18	43.36	54.60	46.30	73.70	73.80	39.26	33.80	1014	36.18	42.68	56.00	73.90	69.90	38.82	31.60	1004
124	36.23	43.36	54.50	46.30	73.70	73.50	39.31	32.50	1014	36.23	42.77	56.00	74.00	70.00	38.87	31.40	1004
125	36.33	43.41	54.60	46.30	73.70	73.50	39.36	31.90	1014	36.23	42.82	56.10	74.10	69.60	38.96	32.60	1004
126	36.38	43.51	54.60	46.30	73.80	73.50	39.40	32.30	1014	36.23	42.82	56.10	74.00	69.80	39.01	31.90	1004
127	36.43	43.51	54.80	46.40	74.00	73.50	39.50	32.00	1017	36.28	42.82	56.10	74.00	70.30	39.01	32.60	1004
128	36.43	43.55	54.90	46.40	74.00	73.80	39.55	32.60	1014	36.38	42.97	56.10	74.10	70.00	39.06	32.50	1004
129	36.47	43.60	54.90	46.50	73.90	73.40	39.55	32.10	1014	36.47	43.02	56.20	74.20	70.10	39.11	32.40	999
130	36.52	43.60	54.90	46.50	73.90	73.50	39.60	32.90	1014	36.47	43.02	56.20	74.30	70.40	39.21	32.60	999
131	36.62	43.70	54.90	46.60	74.10	74.10	39.70	32.00	1014	36.57	43.12	56.30	74.40	70.10	39.21	32.90	1004
132	36.72	43.80	54.90	46.60	74.00	73.20	39.75	32.10	1014	36.62	43.16	56.30	74.40	70.40	39.26	32.90	1007
133	36.67	43.80	54.90	46.70	74.10	73.70	39.79	32.90	1014	36.67	43.21	56.60	74.60	71.10	39.36	33.10	1007
134	36.67	43.80	55.00	46.70	74.00	74.00	39.79	31.90	1014	36.77	43.31	56.50	74.70	70.80	39.40	32.90	1002
135	36.77	43.80	55.00	46.70	74.00	74.20	39.84	33.10	1014	36.77	43.31	56.60	74.70	70.90	39.40	32.50	1004
136	36.82	43.85	55.00	46.70	74.10	74.40	39.89	32.80	1014	36.82	43.41	56.60	74.90	70.20	39.50	32.80	1004

137	36.87	43.90	55.10	46.80	74.20	74.60	39.94	32.60	1014	36.87	43.41	56.80	74.90	71.30	39.50	32.90	1007
138	36.82	43.85	55.20	46.80	74.10	73.40	39.99	32.50	1014	36.91	43.51	56.80	75.00	71.30	39.60	33.60	1004
139	36.82	43.90	55.20	46.90	74.10	74.20	40.04	32.00	1014	36.91	43.51	56.80	74.90	70.90	39.60	31.80	1004
140	36.87	43.95	55.20	46.90	74.10	74.20	40.09	31.80	1014	36.91	43.51	56.80	74.70	71.00	39.70	31.80	1002
141	36.91	43.99	55.20	46.90	74.10	74.10	40.19	32.60	1014	36.96	43.55	56.80	74.70	70.70	39.70	32.00	1004
142	37.01	44.04	55.20	46.90	74.10	73.30	40.19	32.30	1014	37.06	43.60	56.80	74.70	71.40	39.79	33.10	1004
143	37.01	44.04	55.20	47.00	74.10	73.50	40.19	32.30	1014	37.11	43.65	56.80	74.90	71.10	39.79	32.80	1002
144	37.01	44.04	55.30	47.10	74.20	73.90	40.23	33.50	1014	37.11	43.75	56.90	75.00	70.90	39.84	33.40	1004
145	37.01	44.09	55.40	47.10	74.10	73.80	40.33	32.20	1011	37.16	43.80	56.90	74.90	71.00	39.89	33.40	1004
146	37.16	44.19	55.40	47.10	74.10	74.10	40.38	32.80	1014	37.16	43.80	56.90	75.00	71.00	39.94	32.80	1004
147	37.21	44.19	55.40	47.10	74.20	74.30	40.38	31.90	1014	37.30	43.85	57.10	75.10	71.40	39.99	33.20	1004
148	37.26	44.19	55.40	47.10	74.30	74.30	40.43	32.10	1014	37.26	43.80	57.10	75.20	71.00	40.09	32.30	1004
149	37.26	44.29	55.40	47.20	74.20	73.40	40.53	32.20	1014	37.26	43.85	57.20	75.00	70.50	40.09	31.10	1002
150	37.21	44.29	55.40	47.20	74.20	74.00	40.53	31.50	1014	37.26	43.85	57.10	75.00	70.70	40.14	32.60	1007
151	37.30	44.29	55.40	47.30	74.20	74.30	40.58	32.30	1014	37.35	43.90	57.10	75.00	70.90	40.19	33.10	1010
152	37.35	44.38	55.50	47.20	74.30	74.00	40.58	32.60	1014	37.35	43.95	57.20	75.10	71.40	40.23	32.50	1007
153	37.40	44.38	55.50	47.40	74.40	73.70	40.63	32.40	1014	37.50	43.99	57.20	75.20	71.20	40.23	33.30	1007
154	37.40	44.48	55.60	47.40	74.40	74.00	40.67	33.30	1017	37.60	44.04	57.30	75.40	71.30	40.28	32.40	1007
155	37.40	44.48	55.70	47.40	74.40	74.00	40.67	31.60	1014	37.60	44.09	57.30	75.30	71.20	40.38	33.50	1004
156	37.60	44.48	55.70	47.50	74.40	74.20	40.72	32.60	1014	37.60	44.09	57.30	75.20	70.70	40.43	31.10	999
157	37.60	44.58	55.70	47.40	74.40	74.00	40.77	32.30	1014	37.60	44.14	57.30	75.20	70.80	40.48	32.30	999
158	37.60	44.58	55.70	47.50	74.60	75.10	40.82	32.80	1014	37.60	44.14	57.30	75.20	71.10	40.53	32.80	1004
159	37.60	44.58	55.80	47.60	74.60	74.10	40.87	33.10	1014	37.70	44.19	57.30	75.20	71.40	40.53	33.10	1002
160	37.60	44.63	55.80	47.60	74.50	74.30	40.87	32.60	1014	37.70	44.19	57.40	75.30	71.20	40.58	32.20	999
161	37.60	44.68	55.80	47.60	74.40	74.00	40.97	31.60	1014	37.65	44.19	57.40	75.10	70.60	40.58	32.30	1002
162	37.65	44.68	55.80	47.60	74.50	75.00	40.97	32.10	1014	37.65	44.19	57.50	75.20	70.60	40.63	31.60	1004
163	37.74	44.68	55.80	47.70	74.60	74.70	40.97	32.70	1014	37.60	44.19	57.40	74.90	70.70	40.67	31.80	1004
164	37.70	44.78	55.90	47.70	74.60	74.90	41.02	33.70	1014	37.70	44.19	57.40	74.90	71.30	40.72	32.30	1002
165	37.70	44.73	55.90	47.80	74.50	74.50	41.06	33.90	1014	37.79	44.24	57.40	75.00	70.70	40.77	32.30	1002
166	37.79	44.78	55.90	47.70	74.40	73.90	41.11	32.30	1014	37.84	44.34	57.40	75.10	71.00	40.77	33.00	1004
167	37.89	44.82	56.00	47.80	74.60	75.20	41.16	33.20	1014	37.79	44.34	57.50	75.10	70.60	40.87	31.80	1002
168	37.89	44.87	56.00	47.80	74.60	74.70	41.16	31.90	1014	37.74	44.34	57.50	75.00	70.70	40.87	31.30	1004
169	37.89	44.87	56.00	47.80	74.60	74.10	41.21	34.50	1014	37.74	44.29	57.50	74.70	70.70	40.92	32.10	1004
170	37.79	44.87	56.00	47.90	74.60	74.30	41.31	33.70	1014	37.79	44.29	57.40	74.70	71.00	40.92	31.80	1004
171	37.84	44.92	56.00	48.00	74.60	74.80	41.31	32.10	1014	37.89	44.38	57.50	74.90	70.70	40.97	32.40	1004
172	37.94	44.97	56.00	47.90	74.60	74.70	41.36	32.10	1014	37.94	44.38	57.50	75.00	70.90	40.97	32.80	1004

173	37.99	44.97	56.10	48.00	74.70	74.50	41.36	32.60	1014	37.99	44.43	57.60	75.20	70.70	41.02	32.90	1010
174	37.99	44.97	56.10	48.00	74.60	74.10	41.36	32.50	1014	37.89	44.48	57.60	75.00	70.30	41.06	31.00	1007
175	37.99	45.02	56.10	48.00	74.60	74.40	41.36	32.40	1014	37.89	44.38	57.50	74.90	70.60	41.16	31.30	1004
176	37.99	44.97	56.10	48.00	74.60	74.40	41.46	32.40	1014	37.99	44.43	57.50	74.90	70.40	41.11	31.60	1004
177	38.04	45.02	56.10	48.00	74.60	74.30	41.50	32.00	1014	38.04	44.53	57.50	75.00	71.40	41.16	33.30	1007
178	38.09	45.07	56.10	48.00	74.60	74.60	41.50	32.80	1014	38.04	44.58	57.70	75.20	71.40	41.16	33.10	1004
179	38.04	45.12	56.20	48.10	74.70	73.80	41.55	32.90	1014	38.09	44.58	57.70	75.10	70.40	41.26	31.90	1007
180	38.09	45.12	56.20	48.10	74.60	74.20	41.55	32.90	1014	38.04	44.58	57.70	75.00	70.90	41.26	31.30	1002

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 30° (Data 3)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina									Pelat Kolektor Standar							
	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Alumina (T-Alu)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)	IN (Tfi)	OUT (Tfo)	Pelat datar (Tp1)	Kaca dalam (Tc-dalam)	Kaca luar (Tc-luar)	Tangki (Ttangki)	Ling (Ta)	Ilum (I)
0	27.00	27.00	26.20	26.90	26.20	26.20	26.90	25.80	999	27.15	27.15	26.20	26.40	26.40	27.00	25.70	988
1	27.34	29.69	38.40	27.80	45.10	46.60	26.90	30.70	1010	27.44	30.52	41.40	41.00	42.80	27.00	30.00	994
2	27.44	31.25	40.40	28.90	49.50	50.90	26.90	30.40	1021	27.49	32.47	44.20	45.80	47.00	27.00	30.60	996
3	27.54	31.98	41.50	29.70	52.40	54.30	26.90	30.80	1024	27.64	33.06	45.20	49.40	50.30	27.05	31.30	1002
4	27.73	32.47	42.30	30.60	54.80	57.50	26.95	31.30	1026	27.78	33.45	45.50	52.60	53.30	27.05	31.00	1004
5	27.93	32.86	42.90	31.10	56.60	59.70	27.10	31.20	1029	27.98	33.69	46.10	55.10	55.70	27.15	31.70	1010
6	28.03	33.25	43.40	31.70	58.30	61.70	27.20	31.70	1032	28.13	34.03	46.60	57.20	57.30	27.29	31.60	1015
7	28.17	33.59	43.80	32.30	59.80	62.80	27.29	31.60	1034	28.27	34.23	46.90	59.20	58.50	27.34	31.40	1015
8	28.27	33.89	44.30	32.70	61.10	64.40	27.39	31.90	1037	28.42	34.42	47.20	60.80	60.10	27.54	31.30	1015
9	28.37	34.13	44.70	33.20	62.20	65.90	27.49	32.30	1037	28.47	34.62	47.50	62.10	61.10	27.69	32.40	1015
10	28.47	34.42	45.10	33.70	63.20	66.70	27.69	32.30	1037	28.52	34.81	47.90	63.30	62.20	27.78	32.10	1021
11	28.47	34.52	45.40	34.10	64.10	67.10	27.78	32.40	1037	28.56	34.96	48.10	64.30	62.80	27.93	32.10	1018
12	28.52	34.72	45.70	34.50	64.90	67.70	27.88	31.60	1037	28.71	35.11	48.40	65.20	63.90	28.08	32.70	1021
13	28.61	34.86	45.90	34.80	65.50	68.80	28.03	32.10	1040	28.86	35.25	48.70	66.10	64.30	28.17	31.70	1021
14	28.76	35.01	46.20	35.20	66.10	68.90	28.13	32.30	1043	28.91	35.40	48.90	66.70	64.40	28.32	30.30	1023
15	28.86	35.25	46.50	35.50	66.70	69.20	28.27	31.80	1040	28.96	35.50	49.10	67.10	65.20	28.47	31.10	1021
16	28.91	35.40	46.80	35.80	67.10	69.40	28.47	32.00	1043	28.96	35.60	49.20	67.60	65.40	28.61	31.60	1021
17	29.05	35.60	46.90	36.10	67.60	70.00	28.61	31.90	1043	29.05	35.64	49.50	68.10	65.80	28.76	32.60	1021
18	29.15	35.74	47.20	36.30	68.00	70.00	28.76	32.50	1043	29.20	35.84	49.70	68.60	66.10	28.91	32.40	1023
19	29.25	35.94	47.30	36.60	68.40	71.00	28.86	32.60	1045	29.30	35.94	49.80	69.00	66.20	29.05	31.80	1023
20	29.35	36.08	47.50	36.90	68.70	70.60	29.05	32.30	1045	29.39	36.04	50.00	69.40	66.40	29.25	31.80	1023
21	29.35	36.18	47.80	37.20	69.10	70.90	29.25	32.10	1043	29.44	36.18	50.10	69.60	66.90	29.39	32.20	1023
22	29.39	36.33	48.00	37.50	69.40	70.90	29.35	33.70	1043	29.54	36.28	50.20	69.90	67.20	29.54	32.10	1018
23	29.49	36.43	48.00	37.60	69.50	70.60	29.54	32.50	1045	29.69	36.38	50.40	70.10	67.20	29.69	32.60	1021
24	29.64	36.57	48.20	37.80	69.80	71.60	29.64	32.90	1048	29.79	36.47	50.60	70.40	67.30	29.83	32.40	1021
25	29.74	36.67	48.40	38.00	70.00	71.70	29.83	33.20	1048	29.83	36.62	50.60	70.60	67.70	29.98	32.90	1018
26	29.83	36.77	48.50	38.20	70.10	72.00	29.93	32.80	1045	29.93	36.67	50.80	70.70	67.40	30.13	31.80	1015
27	29.93	36.91	48.60	38.30	70.30	72.10	30.13	33.00	1048	29.93	36.77	50.90	70.80	67.50	30.32	32.10	1018
28	30.03	37.06	48.80	38.60	70.60	72.40	30.27	33.40	1048	30.03	36.77	50.90	70.90	67.40	30.42	31.90	1021

29	30.13	37.11	48.90	38.80	70.70	72.40	30.42	34.20	1045	30.13	36.87	51.10	71.10	67.90	30.57	32.00	1021
30	30.22	37.30	49.10	39.00	70.90	72.60	30.57	32.90	1045	30.27	37.06	51.20	71.30	68.10	30.71	32.20	1018
31	30.32	37.35	49.20	39.10	71.00	72.10	30.76	32.90	1048	30.32	37.16	51.30	71.40	67.90	30.86	32.80	1018
32	30.32	37.45	49.20	39.30	71.00	72.30	30.91	32.50	1045	30.42	37.26	51.30	71.50	68.00	31.01	32.20	1018
33	30.47	37.55	49.30	39.40	71.10	72.40	31.05	33.10	1048	30.52	37.35	51.40	71.70	68.10	31.20	32.80	1021
34	30.57	37.60	49.40	39.60	71.20	72.80	31.20	33.00	1048	30.62	37.50	51.60	71.80	68.30	31.25	32.50	1021
35	30.66	37.74	49.60	39.70	71.40	73.00	31.30	33.60	1045	30.76	37.55	51.70	72.00	68.10	31.40	32.40	1015
36	30.81	37.94	49.70	39.90	71.50	73.20	31.45	33.20	1048	30.81	37.60	51.70	72.00	68.30	31.54	34.10	1015
37	30.91	37.99	49.80	40.00	71.50	73.00	31.59	32.70	1048	30.86	37.65	51.90	72.10	68.30	31.64	33.00	1015
38	31.01	38.13	50.00	40.10	71.70	73.10	31.74	33.20	1048	30.91	37.74	51.80	72.10	68.30	31.84	32.60	1018
39	31.10	38.23	50.00	40.20	71.80	72.70	31.88	32.40	1045	31.01	37.84	52.00	72.10	68.40	31.98	32.40	1013
40	31.15	38.33	50.20	40.40	71.90	71.70	32.03	33.00	1045	31.15	37.94	52.10	72.30	68.60	32.08	32.60	1015
41	31.15	38.33	50.30	40.60	71.80	72.80	32.18	32.80	1045	31.25	37.99	52.10	72.40	68.30	32.23	31.80	1015
42	31.30	38.53	50.30	40.70	72.00	72.70	32.37	32.10	1048	31.30	38.13	52.20	72.40	68.90	32.32	32.50	1015
43	31.35	38.62	50.40	40.80	72.00	72.60	32.42	32.60	1045	31.40	38.18	52.30	72.50	68.90	32.47	32.40	1021
44	31.45	38.62	50.50	40.90	72.10	72.80	32.57	34.10	1048	31.45	38.28	52.40	72.50	68.90	32.57	33.60	1015
45	31.59	38.77	50.60	41.10	72.10	73.30	32.76	33.00	1048	31.59	38.33	52.50	72.50	68.90	32.71	33.10	1013
46	31.64	38.87	50.70	41.10	72.20	72.70	32.86	33.00	1045	31.69	38.48	52.60	72.60	68.90	32.81	32.40	1015
47	31.79	38.96	50.80	41.20	72.30	73.10	33.01	33.50	1045	31.69	38.53	52.60	72.60	68.60	32.96	32.40	1013
48	31.88	39.11	50.90	41.40	72.40	72.90	33.11	33.90	1048	31.79	38.57	52.60	72.60	68.70	33.11	32.10	1015
49	32.03	39.21	51.10	41.50	72.50	72.80	33.25	32.80	1021	31.88	38.62	52.80	72.60	69.00	33.20	32.30	1013
50	32.03	39.26	51.30	41.70	72.60	73.20	33.35	33.90	1021	31.98	38.77	53.00	72.90	69.00	33.30	32.80	1015
51	32.08	39.36	51.40	41.80	72.50	73.20	33.54	33.60	1021	32.08	38.87	52.90	72.90	68.80	33.45	32.30	1015
52	32.18	39.40	51.40	41.90	72.60	74.00	33.64	33.50	1021	32.13	38.96	53.00	73.00	69.10	33.54	32.30	1013
53	32.28	39.50	51.40	42.00	72.70	73.50	33.74	33.00	1021	32.18	39.06	53.20	73.10	69.10	33.64	32.30	1013
54	32.42	39.65	51.60	42.10	72.70	73.80	33.89	32.90	1021	32.37	39.16	53.20	73.10	68.90	33.79	32.60	1015
55	32.52	39.75	51.80	42.20	72.90	74.20	33.98	33.60	1021	32.42	39.26	53.20	73.20	69.50	33.89	32.10	1013
56	32.62	39.89	51.70	42.20	72.90	73.90	34.13	33.10	1021	32.47	39.31	53.40	73.20	69.40	33.94	33.10	1013
57	32.71	39.99	51.80	42.30	72.90	73.80	34.28	33.50	1021	32.47	39.40	53.40	73.20	68.90	34.13	32.40	1015
58	32.81	40.09	52.00	42.40	73.00	73.90	34.33	32.40	1018	32.52	39.40	53.40	73.30	69.50	34.23	32.70	1015
59	32.86	40.14	52.00	42.60	73.20	73.60	34.47	33.60	1021	32.67	39.50	53.40	73.30	69.80	34.33	32.40	1013
60	32.86	40.19	52.00	42.70	73.10	73.70	34.62	31.90	1021	32.76	39.60	53.50	73.40	69.40	34.42	32.80	1015
61	32.86	40.28	52.10	42.70	73.10	74.20	34.72	32.90	1021	32.86	39.65	53.50	73.40	69.40	34.52	33.20	1015
62	33.01	40.28	52.20	42.80	73.10	73.80	34.81	33.10	1021	32.96	39.79	53.70	73.40	69.50	34.62	32.10	1015
63	33.11	40.43	52.30	42.90	73.20	73.50	34.91	32.80	1021	33.01	39.84	53.70	73.50	69.70	34.72	32.80	1013
64	33.20	40.48	52.50	43.10	73.30	73.80	35.06	32.80	1021	33.15	39.94	53.80	73.60	69.20	34.81	32.10	1010

65	33.30	40.63	52.50	43.10	73.40	73.80	35.16	32.80	1021	33.20	39.99	53.90	73.60	69.50	34.91	33.50	1010
66	33.40	40.67	52.60	43.20	73.40	73.70	35.25	33.00	1021	33.25	40.04	53.90	73.70	69.40	35.01	33.20	1010
67	33.54	40.77	52.60	43.30	73.50	73.90	35.35	32.80	1021	33.25	40.09	53.90	73.60	69.20	35.11	32.40	1013
68	33.64	40.87	52.70	43.40	73.50	74.00	35.50	33.10	1018	33.30	40.14	54.00	73.50	68.90	35.25	31.80	1010
69	33.64	40.97	52.80	43.50	73.50	73.80	35.60	32.90	1018	33.40	40.23	54.00	73.60	69.70	35.30	32.40	1013
70	33.64	40.97	52.90	43.70	73.60	74.20	35.69	34.50	1018	33.54	40.28	54.10	73.70	69.70	35.40	32.10	1013
71	33.74	41.06	52.90	43.60	73.40	73.70	35.84	32.90	1018	33.59	40.33	54.10	73.70	69.50	35.50	31.90	1010
72	33.84	41.06	53.00	43.70	73.50	74.30	35.89	33.10	1018	33.64	40.43	54.20	73.70	68.90	35.60	32.10	1010
73	33.98	41.21	52.90	43.80	73.60	74.10	35.99	33.20	1018	33.74	40.53	54.30	73.80	69.30	35.69	31.60	1013
74	33.98	41.26	53.10	43.80	73.60	74.30	36.08	33.40	1015	33.84	40.63	54.30	73.80	70.00	35.79	32.80	1010
75	34.08	41.41	53.10	44.00	73.70	74.30	36.18	33.90	1018	33.94	40.67	54.50	73.90	69.80	35.89	32.10	1010
76	34.23	41.46	53.20	44.00	73.70	74.10	36.28	33.20	1015	33.94	40.67	54.50	73.80	69.70	35.94	32.80	1010
77	34.33	41.50	53.40	44.20	73.90	74.80	36.38	33.80	1015	33.98	40.77	54.50	73.70	69.40	36.04	32.30	1010
78	34.38	41.60	53.50	44.30	73.90	74.80	36.47	32.40	1021	34.03	40.77	54.40	73.70	69.70	36.13	32.60	1010
79	34.38	41.65	53.40	44.30	73.80	74.40	36.62	32.90	1018	34.13	40.87	54.60	73.70	69.90	36.18	32.80	1013
80	34.38	41.65	53.50	44.50	73.80	74.80	36.67	32.80	1018	34.23	40.92	54.70	74.00	69.90	36.28	33.00	1013
81	34.42	41.70	53.50	44.50	73.80	74.50	36.77	32.50	1015	34.33	41.06	54.80	74.00	70.10	36.38	33.00	1010
82	34.57	41.85	53.60	44.50	73.80	74.10	36.87	33.10	1015	34.38	41.06	54.90	74.10	70.20	36.47	32.80	1010
83	34.62	41.85	53.60	44.60	73.90	74.40	36.96	32.60	1015	34.42	41.11	54.90	74.10	69.90	36.57	33.20	1010
84	34.72	41.94	53.80	44.70	74.00	74.70	37.06	33.40	1021	34.52	41.21	55.00	74.10	69.70	36.67	32.90	1010
85	34.81	42.04	53.80	44.80	74.00	74.40	37.11	32.90	1015	34.52	41.26	55.10	74.20	69.40	36.72	33.40	1010
86	34.91	42.14	53.90	44.90	74.10	74.30	37.26	33.10	1021	34.57	41.26	55.00	74.10	69.40	36.77	32.30	1010
87	35.01	42.24	54.00	44.90	74.30	74.40	37.35	33.20	1021	34.62	41.36	55.00	74.00	70.20	36.87	32.30	1010
88	35.06	42.29	54.00	45.00	74.30	74.10	37.45	32.40	1013	34.67	41.36	55.10	74.10	69.90	36.96	32.40	1007
89	35.11	42.33	54.00	45.10	74.30	74.10	37.45	33.90	1015	34.77	41.46	55.10	74.10	70.10	37.01	33.40	1007
90	35.06	42.38	54.10	45.20	74.30	74.10	37.55	34.00	1013	34.81	41.46	55.20	74.20	69.90	37.06	32.80	1010
91	35.11	42.33	54.10	45.20	74.10	74.60	37.65	32.70	1015	34.91	41.50	55.40	74.30	70.00	37.16	33.20	1010
92	35.21	42.43	54.20	45.30	74.20	74.40	37.70	34.40	1015	34.96	41.60	55.40	74.30	69.50	37.26	32.80	1010
93	35.30	42.53	54.20	45.30	74.20	74.40	37.79	33.50	1015	35.01	41.70	55.50	74.40	70.10	37.35	32.30	1010
94	35.40	42.63	54.30	45.40	74.20	74.50	37.84	33.20	1013	35.06	41.75	55.60	74.40	69.70	37.45	32.50	1010
95	35.45	42.68	54.30	45.40	74.20	74.70	37.94	33.40	1013	35.06	41.75	55.70	74.30	69.70	37.45	32.90	1007
96	35.55	42.72	54.30	45.50	74.20	74.20	38.04	32.90	1015	35.11	41.80	55.60	74.30	70.00	37.50	32.60	1007
97	35.60	42.82	54.50	45.50	74.30	74.20	38.09	32.30	1013	35.21	41.85	55.70	74.30	70.00	37.55	32.40	1010
98	35.60	42.87	54.50	45.70	74.30	75.00	38.18	33.20	1015	35.25	41.94	55.80	74.40	70.10	37.65	33.40	1007
99	35.69	42.97	54.60	45.70	74.40	75.00	38.23	33.30	1015	35.30	41.99	55.80	74.40	70.40	37.74	33.60	1010
100	35.79	42.97	54.70	45.80	74.40	75.10	38.33	33.20	1015	35.45	42.04	55.90	74.50	70.20	37.74	32.80	1007

101	35.79	43.02	54.70	45.80	74.40	74.70	38.38	34.10	1013	35.50	42.24	55.90	74.50	70.10	37.84	33.50	1010
102	35.79	43.02	54.70	45.90	74.40	74.40	38.48	34.40	1015	35.55	42.19	56.00	74.60	70.30	37.94	33.60	1007
103	35.84	43.12	54.70	46.00	74.40	74.70	38.57	33.70	1010	35.55	42.24	56.00	74.40	70.00	38.04	33.70	1004
104	35.94	43.12	54.80	46.00	74.40	74.80	38.62	32.90	1013	35.55	42.24	56.00	74.40	70.10	38.04	32.60	1004
105	35.99	43.21	54.80	46.10	74.40	74.40	38.72	32.60	1015	35.60	42.24	56.00	74.40	70.30	38.13	33.60	1004
106	36.08	43.31	54.80	46.10	74.50	75.10	38.77	33.00	1015	35.69	42.38	56.10	74.50	70.10	38.23	32.50	1007
107	36.18	43.41	54.90	46.10	74.50	74.40	38.82	33.00	1015	35.74	42.43	56.10	74.60	70.10	38.23	32.70	1004
108	36.23	43.41	55.00	46.30	74.70	74.90	38.96	33.60	1015	35.79	42.48	56.20	74.60	70.50	38.28	33.40	1007
109	36.28	43.46	55.10	46.30	74.70	75.20	39.01	33.40	1013	35.84	42.53	56.30	74.60	70.20	38.38	32.70	1004
110	36.28	43.51	55.20	46.40	74.70	74.50	39.01	33.80	1013	35.94	42.63	56.40	74.80	70.70	38.43	33.00	1007
111	36.28	43.55	55.20	46.50	74.60	74.90	39.11	33.00	1010	35.99	42.68	56.40	74.90	70.10	38.48	32.80	1004
112	36.33	43.60	55.20	46.50	74.80	74.70	39.21	32.70	1026	35.99	42.63	56.40	74.80	70.20	38.57	32.30	1004
113	36.38	43.65	55.20	46.60	74.80	74.90	39.26	33.20	1005	35.99	42.63	56.40	74.60	70.50	38.62	33.00	1007
114	36.47	43.70	55.20	46.60	74.70	75.20	39.26	32.90	1005	35.99	42.72	56.40	74.70	70.80	38.67	33.20	1007
115	36.52	43.80	55.30	46.60	74.70	75.00	39.40	33.00	1005	36.08	42.82	56.40	74.70	70.50	38.72	32.80	1007
116	36.57	43.80	55.20	46.60	74.70	74.80	39.40	32.50	1005	36.18	42.87	56.60	74.90	70.50	38.82	32.90	1013
117	36.67	43.80	55.40	46.70	74.80	74.70	39.50	32.90	1005	36.23	42.87	56.60	74.90	70.60	38.87	32.80	1007
118	36.77	43.85	55.40	46.80	74.80	74.90	39.55	33.20	1007	36.28	42.97	56.80	75.00	70.90	38.92	33.00	1007
119	36.77	43.90	55.50	46.80	74.90	74.50	39.60	33.10	1007	36.33	43.02	56.80	75.00	70.40	38.96	32.80	1010
120	36.77	43.99	55.50	46.90	74.90	74.90	39.70	33.70	1005	36.38	43.07	56.80	75.10	71.10	39.01	32.90	1007
121	36.77	43.99	55.60	47.00	74.90	74.60	39.79	33.90	1005	36.38	43.07	56.90	75.20	70.70	39.06	33.70	1007
122	36.77	43.99	55.60	47.00	74.80	74.60	39.79	32.40	1005	36.43	43.16	56.90	75.00	70.40	39.11	32.10	1010
123	36.82	44.04	55.50	47.00	74.80	74.50	39.84	32.80	1005	36.38	43.12	56.90	75.00	70.30	39.21	31.60	1010
124	36.91	44.09	55.50	47.00	74.90	75.00	39.89	33.40	1005	36.38	43.12	56.90	75.00	70.90	39.26	32.30	1010
125	36.96	44.14	55.60	47.10	74.90	74.40	39.99	32.60	1005	36.47	43.12	56.90	75.00	70.90	39.31	33.00	1010
126	37.06	44.19	55.70	47.10	74.80	74.90	40.04	32.90	1007	36.57	43.21	57.00	75.10	70.90	39.36	33.00	1007
127	37.11	44.24	55.70	47.20	74.90	74.80	40.09	33.20	1005	36.62	43.26	57.00	75.10	70.60	39.40	32.40	1007
128	37.16	44.29	55.70	47.20	74.90	74.90	40.14	33.60	1005	36.57	43.31	57.10	75.20	70.10	39.40	33.20	1007
129	37.21	44.38	55.80	47.30	75.00	74.90	40.19	33.50	1005	36.62	43.26	57.10	75.00	70.80	39.50	32.00	1007
130	37.26	44.38	55.80	47.40	75.00	74.70	40.28	32.80	1002	36.67	43.31	57.10	75.00	71.00	39.60	32.10	1007
131	37.30	44.48	55.80	47.40	75.10	75.00	40.28	33.10	1005	36.77	43.51	56.90	75.10	70.60	39.60	33.00	1007
132	37.35	44.53	56.00	47.40	75.20	75.00	40.38	33.10	1005	36.77	43.46	56.80	75.20	70.70	39.65	32.80	1004
133	37.30	44.53	56.00	47.50	75.10	74.90	40.38	34.30	1002	36.77	43.46	56.80	75.00	70.80	39.70	33.00	1004
134	37.30	44.58	56.00	47.60	75.20	74.90	40.43	33.70	999	36.82	43.46	56.70	74.90	70.90	39.75	32.10	1004
135	37.35	44.53	56.00	47.60	75.00	74.90	40.58	33.70	1002	36.82	43.51	56.70	75.00	70.50	39.79	32.50	1007
136	37.40	44.53	56.00	47.60	75.00	75.10	40.58	33.20	999	36.91	43.60	56.80	75.20	70.90	39.79	32.30	1004

137	37.60	44.58	56.00	47.60	75.00	75.00	40.58	33.30	1002	36.96	43.60	56.80	75.20	70.80	39.84	32.70	1007
138	37.60	44.68	56.10	47.60	75.10	74.90	40.67	33.30	1005	36.96	43.60	56.90	75.10	70.40	39.94	32.60	1004
139	37.60	44.68	56.10	47.70	75.10	75.30	40.67	33.80	1002	36.96	43.60	56.80	74.90	70.50	39.99	31.80	1004
140	37.65	44.78	56.10	47.70	75.20	75.50	40.77	33.10	1002	37.01	43.60	56.80	74.90	70.20	39.99	31.20	1010
141	37.70	44.87	56.30	47.80	75.20	75.90	40.82	33.60	1005	37.01	43.70	56.90	74.90	70.80	40.04	32.00	1010
142	37.70	44.87	56.30	47.80	75.30	75.30	40.87	32.40	1005	37.11	43.75	56.80	75.00	70.80	40.09	32.40	1004
143	37.70	44.87	56.40	47.90	75.30	74.90	40.92	34.50	1002	37.16	43.80	57.00	75.20	70.60	40.09	31.90	1004
144	37.65	44.87	56.30	47.90	75.30	74.70	40.97	33.50	1005	37.16	43.80	56.90	74.90	70.10	40.19	31.80	1007
145	37.74	44.92	56.30	48.00	75.20	74.60	40.97	32.50	1005	37.11	43.80	57.00	75.00	70.30	40.19	31.70	1007
146	37.79	44.92	56.30	48.00	75.30	75.80	41.02	33.40	1005	37.21	43.80	57.10	75.10	70.20	40.23	32.10	1007
147	37.84	44.97	56.40	48.00	75.30	75.10	41.06	32.90	1005	37.21	43.80	57.00	75.20	70.40	40.28	32.90	1007
148	37.89	44.97	56.40	48.00	75.30	74.90	41.16	32.80	1005	37.26	43.90	57.00	75.20	70.80	40.33	32.60	1010
149	37.94	45.02	56.40	48.10	75.30	75.30	41.16	33.40	1005	37.35	43.90	57.10	75.20	70.50	40.38	31.90	1007
150	37.99	45.07	56.50	48.00	75.30	75.50	41.21	33.50	1005	37.30	43.95	57.10	75.10	70.10	40.38	31.80	1004
151	38.04	45.17	56.50	48.10	75.40	75.00	41.26	33.10	1005	37.30	43.90	57.10	74.90	70.50	40.43	31.60	1007
152	38.13	45.17	56.60	48.10	75.40	74.90	41.36	32.90	1005	37.40	43.90	57.10	74.90	70.70	40.48	32.10	1007
153	38.13	45.21	56.60	48.20	75.50	75.40	41.36	33.40	1005	37.45	43.99	57.10	75.10	70.90	40.53	32.40	1007
154	38.13	45.26	56.70	48.30	75.50	74.80	41.36	32.90	1005	37.60	44.04	57.20	75.20	70.60	40.58	31.80	1004
155	38.09	45.17	56.70	48.30	75.40	75.30	41.41	33.40	1002	37.60	44.09	57.20	75.20	69.80	40.58	31.80	1007
156	38.13	45.26	56.60	48.30	75.40	75.20	41.46	33.20	1002	37.50	44.04	57.20	75.00	70.70	40.58	31.50	1007
157	38.18	45.31	56.70	48.30	75.40	75.30	41.50	33.40	1005	37.60	44.04	57.20	75.00	70.40	40.63	31.80	1007
158	38.28	45.36	56.70	48.30	75.40	75.80	41.55	33.80	1005	37.60	44.09	57.20	75.10	70.70	40.67	32.90	1007
159	38.33	45.41	56.80	48.30	75.50	75.40	41.55	33.30	1002	37.60	44.14	57.30	75.20	70.90	40.67	32.90	1004
160	38.38	45.51	56.80	48.40	75.50	75.40	41.65	33.90	1002	37.60	44.14	57.40	75.20	70.50	40.72	32.20	1004
161	38.38	45.56	56.80	48.50	75.60	75.40	41.65	33.20	1005	37.60	44.19	57.30	75.20	70.40	40.77	32.00	1004
162	38.38	45.51	56.90	48.50	75.50	75.50	41.75	32.80	1002	37.70	44.19	57.30	75.20	70.60	40.82	32.60	1010
163	38.48	45.56	56.90	48.50	75.70	75.20	41.75	32.10	999	37.70	44.19	57.30	75.20	70.40	40.87	31.80	1010
164	38.48	45.56	56.90	48.60	75.70	75.60	41.80	33.40	1002	37.70	44.24	57.40	75.30	70.40	40.87	32.20	1007
165	38.57	45.65	56.90	48.60	75.70	75.80	41.80	33.70	1005	37.79	44.29	57.40	75.40	70.80	40.87	32.60	1007
166	38.57	45.65	57.00	48.60	75.70	75.40	41.89	33.60	1002	37.79	44.29	57.50	75.40	70.70	40.92	33.40	1007
167	38.53	45.70	57.00	48.70	75.70	74.70	41.89	32.70	1002	37.79	44.34	57.40	75.30	70.60	40.97	31.30	1007
168	38.48	45.65	57.10	48.70	75.60	75.50	41.94	32.90	1002	37.79	44.34	57.50	75.40	70.60	40.92	31.30	1010
169	38.53	45.65	57.00	48.60	75.50	75.10	41.94	33.50	1002	37.79	44.34	57.50	75.40	70.70	40.97	32.80	1004
170	38.57	45.70	57.00	48.70	75.50	75.20	42.04	32.90	1002	37.94	44.38	57.50	75.40	70.60	41.02	32.30	1007
171	38.67	45.75	57.10	48.70	75.50	75.00	42.09	33.40	1002	37.89	44.38	57.60	75.50	70.80	41.06	32.30	1007
172	38.72	45.80	57.10	48.80	75.60	75.60	42.09	33.40	1002	37.94	44.43	57.60	75.40	70.10	41.11	32.10	1004

173	38.77	45.80	57.10	48.80	75.70	75.20	42.14	33.10	1002	37.84	44.38	57.50	75.30	70.10	41.16	31.80	1007
174	38.82	45.90	57.20	48.80	75.70	75.80	42.14	33.90	1002	37.94	44.48	57.50	75.20	70.50	41.16	33.10	1007
175	38.77	45.85	57.20	48.80	75.70	75.10	42.19	33.30	996	37.99	44.48	57.60	75.40	71.00	41.16	32.70	1004
176	38.72	45.85	57.20	48.90	75.70	75.60	42.19	33.20	999	37.99	44.53	57.70	75.40	71.10	41.16	32.10	1004
177	38.77	45.85	57.20	48.90	75.50	75.50	42.24	32.90	1002	38.09	44.53	57.70	75.50	70.70	41.26	33.10	1007
178	38.77	45.90	57.20	48.90	75.50	75.80	42.29	33.20	999	38.04	44.58	57.70	75.50	70.60	41.26	32.40	1004
179	38.82	45.95	57.20	48.90	75.60	75.00	42.33	31.90	1002	37.99	44.58	57.60	75.40	70.10	41.31	33.60	1004
180	38.87	46.00	57.20	48.90	75.60	75.20	42.33	32.90	999	38.04	44.58	57.60	75.20	70.40	41.31	31.90	1010

Lampiran 8. (TABEL HASIL PERHITUNGAN)

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 0° (Data 1)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	U _l (W/m ² K)	Q _{loss} (W/m ²)	S (W/m ²)	V (m ³ /s)	Q _n (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	U _l (W/m ² K)	Q _{loss} (W/m ²)	S (W/m ²)	V (m ³ /s)	Q _n (Watt)	η (%)
0	4.83	1.95	6.77	11.18	815.39	2.76E-06	0.00	0.00%	4.63	1.95	6.58	9.56	866.99	2.79E-06	0.00	0.00%
1	5.75	1.95	7.70	-20.81	847.82	2.76E-06	32.53	29.18%	0.00	1.95	1.95	-3.51	866.99	2.78E-06	40.06	35.14%
2	6.16	1.95	8.11	-26.02	857.08	2.77E-06	52.30	46.40%	5.72	1.95	7.67	-16.92	866.99	2.79E-06	62.40	54.73%
3	6.40	1.95	8.35	-26.38	864.03	2.79E-06	62.96	55.42%	6.05	1.95	8.00	-15.65	866.99	2.79E-06	69.20	60.70%
4	6.59	1.95	8.54	-29.56	864.03	2.80E-06	67.12	59.07%	6.24	1.95	8.19	-17.28	866.99	2.79E-06	71.46	62.68%
5	6.72	1.95	8.66	-26.14	866.35	2.79E-06	70.88	62.22%	6.37	1.95	8.32	-13.43	866.99	2.79E-06	73.15	64.17%
6	6.82	1.95	8.77	-28.22	866.35	2.79E-06	74.28	65.20%	6.45	1.95	8.40	-10.23	866.99	2.80E-06	75.07	65.84%
7	6.91	1.95	8.86	-40.95	870.98	2.79E-06	77.11	67.33%	6.54	1.95	8.49	-19.26	866.99	2.80E-06	76.77	67.34%
8	6.98	1.95	8.93	-39.95	870.98	2.79E-06	78.80	68.81%	6.62	1.95	8.57	-29.32	866.99	2.81E-06	78.13	68.53%
9	7.04	1.95	8.98	-36.17	873.30	2.79E-06	81.63	71.09%	6.67	1.95	8.62	-27.37	866.99	2.81E-06	78.69	69.03%
10	7.07	1.95	9.02	-31.82	870.98	2.80E-06	83.57	72.97%	6.72	1.95	8.67	-29.70	866.99	2.80E-06	80.17	70.32%
11	7.11	1.95	9.06	-34.72	873.30	2.79E-06	85.02	74.04%	6.76	1.95	8.71	-26.83	866.99	2.81E-06	80.97	71.02%
12	7.15	1.95	9.10	-34.41	875.61	2.79E-06	87.85	76.30%	6.79	1.95	8.74	-24.74	866.99	2.81E-06	82.10	72.02%
13	7.18	1.95	9.13	-34.54	877.93	2.79E-06	87.85	76.10%	6.82	1.95	8.77	-24.84	866.99	2.81E-06	82.67	72.51%
14	7.21	1.95	9.16	-36.06	875.61	2.79E-06	89.54	77.77%	6.85	1.95	8.80	-30.24	866.99	2.79E-06	82.75	72.59%

15	7.22	1.95	9.17	-28.80	877.93	2.78E-06	89.84	77.82%	6.88	1.95	8.83	-32.11	866.99	2.83E-06	83.96	73.64%
16	7.24	1.95	9.19	-26.10	875.61	2.79E-06	91.80	79.73%	6.89	1.95	8.84	-31.31	866.99	2.79E-06	84.44	74.07%
17	7.26	1.95	9.21	-36.76	875.61	2.78E-06	92.66	80.48%	6.91	1.95	8.86	-23.41	866.99	2.81E-06	87.21	76.50%
18	7.27	1.95	9.22	-32.69	880.25	2.79E-06	93.49	80.77%	6.93	1.95	8.88	-31.49	866.99	2.80E-06	87.52	76.77%
19	7.30	1.95	9.24	-39.26	880.25	2.80E-06	94.33	81.49%	6.96	1.95	8.91	-38.72	864.67	2.85E-06	89.62	78.82%
20	7.32	1.95	9.27	-40.30	880.25	2.79E-06	94.62	81.74%	6.96	1.95	8.91	-28.95	864.67	2.79E-06	87.83	77.24%
21	7.32	1.95	9.27	-38.04	880.25	2.78E-06	94.90	81.99%	6.98	1.95	8.93	-25.45	866.99	2.80E-06	88.65	77.76%
22	7.32	1.95	9.27	-29.70	880.25	2.78E-06	95.46	82.47%	6.98	1.95	8.93	-26.39	866.99	2.79E-06	89.52	78.52%
23	7.34	1.95	9.28	-33.00	880.25	2.79E-06	96.87	83.69%	7.00	1.95	8.95	-30.04	866.99	2.78E-06	89.26	78.29%
24	7.34	1.95	9.29	-28.87	880.25	2.79E-06	96.87	83.69%	7.01	1.95	8.96	-29.20	869.31	2.79E-06	89.51	78.31%
25	7.36	1.95	9.31	-37.80	880.25	2.80E-06	96.58	83.44%	7.02	1.95	8.97	-36.00	869.31	2.81E-06	90.03	78.76%
26	7.36	1.95	9.31	-26.66	880.25	2.79E-06	97.42	84.17%	7.02	1.95	8.97	-25.26	866.99	2.79E-06	90.07	79.00%
27	7.36	1.95	9.31	-23.41	880.25	2.79E-06	97.99	84.65%	7.02	1.95	8.97	-21.23	869.31	2.82E-06	90.86	79.48%
28	7.38	1.95	9.32	-34.66	880.25	2.79E-06	97.98	84.65%	7.05	1.95	9.00	-33.01	871.62	2.80E-06	90.33	78.81%
29	7.37	1.95	9.32	-23.00	882.56	2.81E-06	99.69	85.90%	7.05	1.95	9.00	-30.35	869.31	2.79E-06	90.63	79.28%
30	7.39	1.95	9.34	-36.17	880.25	2.81E-06	99.68	86.12%	7.06	1.95	9.01	-29.48	869.31	2.82E-06	90.85	79.47%
31	7.38	1.95	9.33	-24.51	884.88	2.79E-06	97.97	84.20%	7.06	1.95	9.01	-23.22	871.62	2.81E-06	90.01	78.53%
32	7.40	1.95	9.35	-32.05	882.56	2.81E-06	99.67	85.89%	7.06	1.95	9.01	-18.74	871.62	2.80E-06	90.31	78.79%

33	7.39	1.95	9.34	-20.83	884.88	2.81E-06	100.24	86.15%	7.06	1.95	9.01	-12.89	869.31	2.82E-06	91.40	79.96%
34	7.40	1.95	9.35	-26.95	882.56	2.81E-06	100.24	86.37%	7.07	1.95	9.02	-16.53	869.31	2.81E-06	90.57	79.23%
35	7.41	1.95	9.36	-22.79	882.56	2.79E-06	99.65	85.87%	7.09	1.95	9.04	-24.73	880.89	2.80E-06	91.44	78.94%
36	7.41	1.95	9.36	-19.11	884.88	2.81E-06	99.66	85.64%	7.10	1.95	9.05	-27.04	880.89	2.83E-06	93.07	80.35%
37	7.42	1.95	9.37	-21.47	882.56	2.82E-06	100.51	86.61%	7.11	1.95	9.06	-29.35	880.89	2.82E-06	93.94	81.10%
38	7.41	1.95	9.36	-15.86	882.56	2.78E-06	99.62	85.84%	7.10	1.95	9.05	-16.23	880.89	2.82E-06	93.94	81.10%
39	7.42	1.95	9.36	-14.47	882.56	2.77E-06	101.01	87.03%	7.10	1.95	9.05	-13.99	883.21	2.84E-06	95.05	81.84%
40	7.41	1.95	9.36	-7.45	880.25	2.77E-06	101.00	87.26%	7.10	1.95	9.05	-9.50	880.89	2.80E-06	92.55	79.90%
41	7.44	1.95	9.39	-30.99	884.88	2.78E-06	100.17	86.09%	7.11	1.95	9.06	-15.41	883.21	2.79E-06	93.41	80.43%
42	7.43	1.95	9.38	-19.25	882.56	2.76E-06	100.70	86.77%	7.09	1.95	9.04	3.14	883.21	2.79E-06	93.41	80.43%
43	7.43	1.95	9.38	-16.46	884.88	2.77E-06	101.55	87.27%	7.09	1.95	9.04	-2.28	880.89	2.80E-06	94.81	81.85%
44	7.43	1.95	9.37	-7.55	884.88	2.79E-06	101.88	87.56%	7.08	1.95	9.03	5.39	880.89	2.80E-06	94.81	81.85%
45	7.43	1.95	9.38	-10.39	882.56	2.79E-06	101.88	87.78%	7.10	1.95	9.05	-12.26	880.89	2.78E-06	94.26	81.37%
46	7.44	1.95	9.39	-25.45	882.56	2.79E-06	101.87	87.78%	7.11	1.95	9.06	-16.38	880.89	2.79E-06	94.53	81.61%
47	7.44	1.95	9.39	-16.10	882.56	2.79E-06	101.30	87.29%	7.11	1.95	9.06	-3.72	880.89	2.79E-06	94.53	81.60%
48	7.45	1.95	9.40	-16.14	884.88	2.81E-06	101.32	87.07%	7.10	1.95	9.05	4.85	880.89	2.80E-06	93.66	80.86%
49	7.45	1.95	9.40	-12.41	887.19	2.78E-06	101.56	87.05%	7.09	1.95	9.04	10.71	880.89	2.79E-06	93.95	81.11%
50	7.44	1.95	9.39	-4.88	882.56	2.79E-06	102.42	88.25%	7.10	1.95	9.05	-0.60	880.89	2.80E-06	94.23	81.34%

51	7.45	1.95	9.39	-8.18	887.19	2.78E-06	102.95	88.24%	7.10	1.95	9.05	-3.78	880.89	2.81E-06	95.07	82.07%
52	7.45	1.95	9.40	-12.93	884.88	2.78E-06	102.11	87.76%	7.12	1.95	9.07	-1.99	880.89	2.80E-06	94.22	81.34%
53	7.46	1.95	9.41	-11.57	887.19	2.78E-06	101.54	87.04%	7.12	1.95	9.07	-0.67	880.89	2.78E-06	93.39	80.63%
54	7.46	1.95	9.41	-11.59	884.88	2.78E-06	101.24	87.01%	7.11	1.95	9.06	7.91	880.89	2.80E-06	94.21	81.33%
55	7.46	1.95	9.41	-9.73	887.19	2.78E-06	101.54	87.03%	7.09	1.95	9.04	20.56	880.89	2.79E-06	94.50	81.58%
56	7.46	1.95	9.41	-5.02	887.19	2.78E-06	102.10	87.52%	7.11	1.95	9.06	3.38	880.89	2.75E-06	94.24	81.35%
57	7.45	1.95	9.40	2.96	884.88	2.79E-06	102.96	88.49%	7.12	1.95	9.07	-1.64	880.89	2.78E-06	93.94	81.10%
58	7.46	1.95	9.41	-6.95	880.25	2.80E-06	103.26	89.21%	7.12	1.95	9.07	-3.47	880.89	2.78E-06	93.94	81.10%
59	7.46	1.95	9.41	-3.69	882.56	2.79E-06	101.82	87.73%	7.12	1.95	9.07	-0.33	880.89	2.77E-06	93.66	80.86%
60	7.47	1.95	9.42	-14.56	887.19	2.78E-06	100.95	86.53%	7.11	1.95	9.06	10.54	880.89	2.76E-06	93.94	81.10%
61	7.46	1.95	9.41	2.85	882.56	2.79E-06	102.38	88.21%	7.10	1.95	9.05	21.37	880.89	2.78E-06	94.21	81.33%
62	7.46	1.95	9.41	-4.22	882.56	2.78E-06	102.64	88.44%	7.13	1.95	9.08	0.09	880.89	2.78E-06	93.93	81.09%
63	7.46	1.95	9.41	0.95	882.56	2.79E-06	102.94	88.70%	7.13	1.95	9.08	2.33	880.89	2.78E-06	93.36	80.60%
64	7.45	1.95	9.40	5.15	882.56	2.78E-06	101.51	87.46%	7.13	1.95	9.08	2.75	880.89	2.78E-06	93.36	80.60%
65	7.46	1.95	9.41	3.24	882.56	2.78E-06	101.21	87.21%	7.12	1.95	9.07	16.79	880.89	2.77E-06	93.64	80.84%
66	7.48	1.95	9.43	-4.31	882.56	2.78E-06	101.20	87.20%	7.11	1.95	9.06	18.59	880.89	2.78E-06	94.48	81.56%
67	7.47	1.95	9.42	1.30	882.56	2.79E-06	100.66	86.73%	7.12	1.95	9.07	14.98	880.89	2.75E-06	93.65	80.85%
68	7.47	1.95	9.42	6.95	880.25	2.79E-06	101.79	87.94%	7.13	1.95	9.08	-0.01	880.89	2.78E-06	94.48	81.56%

69	7.47	1.95	9.42	4.13	884.88	2.78E-06	102.05	87.71%	7.13	1.95	9.08	11.75	880.89	2.78E-06	92.78	80.10%
70	7.47	1.95	9.42	5.99	884.88	2.78E-06	101.49	87.22%	7.12	1.95	9.07	19.43	862.36	2.78E-06	93.34	82.31%
71	7.48	1.95	9.43	5.97	880.25	2.79E-06	101.78	87.93%	7.11	1.95	9.06	22.14	873.94	2.77E-06	93.63	81.47%
72	7.49	1.95	9.44	0.75	884.88	2.79E-06	101.77	87.47%	7.10	1.95	9.05	28.44	864.67	2.78E-06	93.34	82.09%
73	7.49	1.95	9.44	3.56	880.25	2.79E-06	101.21	87.43%	7.11	1.95	9.06	13.05	860.04	2.78E-06	93.34	82.53%
74	7.49	1.95	9.43	7.31	880.25	2.79E-06	101.20	87.43%	7.12	1.95	9.07	8.51	860.04	2.77E-06	91.94	81.30%
75	7.47	1.95	9.42	14.36	882.56	2.79E-06	101.76	87.69%	7.12	1.95	9.07	10.28	860.04	2.78E-06	91.08	80.54%
76	7.48	1.95	9.43	12.48	887.19	2.78E-06	101.47	86.97%	7.11	1.95	9.06	22.93	857.72	2.78E-06	91.91	81.49%
77	7.47	1.95	9.42	13.39	887.19	2.79E-06	102.33	87.71%	7.12	1.95	9.07	15.69	857.72	2.76E-06	91.66	81.27%
78	7.48	1.95	9.43	9.61	882.56	2.79E-06	101.76	87.68%	7.11	1.95	9.06	26.08	860.04	2.78E-06	92.76	82.02%
79	7.48	1.95	9.43	13.36	880.25	2.79E-06	101.75	87.91%	7.11	1.95	9.06	14.76	857.72	2.77E-06	91.93	81.51%
80	7.49	1.95	9.43	12.40	880.25	2.79E-06	101.75	87.90%	7.12	1.95	9.07	9.31	857.72	2.77E-06	90.81	80.51%
81	7.49	1.95	9.44	12.84	882.56	2.81E-06	101.77	87.69%	7.11	1.95	9.06	22.87	857.72	2.78E-06	91.34	80.98%
82	7.48	1.95	9.43	22.26	884.88	2.80E-06	102.61	88.18%	7.11	1.95	9.06	23.77	860.04	2.78E-06	91.63	81.02%
83	7.47	1.95	9.42	25.53	887.19	2.80E-06	102.04	87.46%	7.11	1.95	9.06	26.47	857.72	2.78E-06	91.33	80.98%
84	7.48	1.95	9.43	17.06	880.25	2.79E-06	102.31	88.39%	7.10	1.95	9.05	34.59	857.72	2.78E-06	91.90	81.48%
85	7.48	1.95	9.43	25.50	880.25	2.79E-06	101.17	87.40%	7.11	1.95	9.06	25.07	857.72	2.79E-06	91.60	81.21%
86	7.50	1.95	9.44	8.53	882.56	2.80E-06	100.89	86.94%	7.10	1.95	9.05	30.03	857.72	2.78E-06	91.33	80.97%

87	7.49	1.95	9.44	11.34	882.56	2.80E-06	100.89	86.93%	7.12	1.95	9.07	21.90	857.72	2.78E-06	91.89	81.47%
88	7.49	1.95	9.44	11.79	882.56	2.80E-06	100.89	86.93%	7.11	1.95	9.06	27.32	855.41	2.78E-06	92.18	81.95%
89	7.50	1.95	9.44	17.93	882.56	2.79E-06	100.59	86.68%	7.10	1.95	9.05	32.70	857.72	2.78E-06	91.32	80.97%
90	7.48	1.95	9.43	27.79	882.56	2.81E-06	101.75	87.67%	7.11	1.95	9.06	28.62	857.72	2.78E-06	91.61	81.23%
91	7.49	1.95	9.44	25.45	880.25	2.80E-06	101.45	87.64%	7.12	1.95	9.07	14.60	857.72	2.79E-06	91.58	81.20%
92	7.49	1.95	9.44	27.78	882.56	2.81E-06	101.17	87.18%	7.11	1.95	9.06	29.05	857.72	2.78E-06	89.92	79.72%
93	7.51	1.95	9.46	17.88	882.56	2.81E-06	101.17	87.17%	7.12	1.95	9.07	37.22	857.72	2.77E-06	90.78	80.48%
94	7.51	1.95	9.46	13.14	880.25	2.82E-06	101.75	87.91%	7.13	1.95	9.08	22.73	857.72	2.78E-06	91.87	81.45%
95	7.51	1.95	9.46	24.46	880.25	2.81E-06	103.43	89.36%	7.11	1.95	9.06	42.15	855.41	2.78E-06	91.60	81.44%
96	7.50	1.95	9.45	32.01	884.88	2.79E-06	103.39	88.86%	7.11	1.95	9.06	26.75	855.41	2.78E-06	90.74	80.67%
97	7.50	1.95	9.45	30.09	882.56	2.79E-06	102.83	88.60%	7.12	1.95	9.07	28.11	857.72	2.78E-06	90.17	79.95%
98	7.51	1.95	9.46	18.28	880.25	2.78E-06	101.96	88.09%	7.13	1.95	9.08	26.76	857.72	2.78E-06	90.17	79.95%
99	7.50	1.95	9.45	26.29	882.56	2.77E-06	101.92	87.82%	7.13	1.95	9.08	27.25	857.72	2.78E-06	93.55	82.95%
100	7.51	1.95	9.46	24.86	880.25	2.78E-06	101.96	88.08%	7.12	1.95	9.07	33.56	857.72	2.77E-06	90.76	80.47%
101	7.51	1.95	9.46	26.27	880.25	2.78E-06	101.66	87.82%	7.12	1.95	9.07	35.78	857.72	2.78E-06	90.47	80.21%
102	7.51	1.95	9.46	28.16	880.25	2.78E-06	102.22	88.31%	7.13	1.95	9.08	27.20	860.04	2.77E-06	90.20	79.76%
103	7.52	1.95	9.47	21.07	884.88	2.76E-06	102.17	87.81%	7.14	1.95	9.09	23.11	857.72	2.78E-06	90.16	79.94%
104	7.52	1.95	9.47	19.65	884.88	2.78E-06	102.21	87.84%	7.13	1.95	9.08	35.33	857.72	2.78E-06	91.29	80.94%

105	7.52	1.95	9.47	27.19	882.56	2.78E-06	101.65	87.59%	7.12	1.95	9.07	38.01	857.72	2.78E-06	90.72	80.44%
106	7.53	1.95	9.48	24.81	882.56	2.78E-06	101.08	87.10%	7.12	1.95	9.07	41.18	857.72	2.78E-06	91.29	80.94%
107	7.54	1.95	9.48	20.07	880.25	2.78E-06	100.52	86.84%	7.12	1.95	9.07	44.77	857.72	2.78E-06	90.46	80.20%
108	7.51	1.95	9.46	38.49	882.56	2.77E-06	101.34	87.32%	7.13	1.95	9.08	31.67	857.72	2.78E-06	90.16	79.93%
109	7.52	1.95	9.47	32.34	882.56	2.79E-06	102.23	88.09%	7.14	1.95	9.09	33.48	857.72	2.78E-06	90.15	79.93%
110	7.52	1.95	9.47	30.44	882.56	2.78E-06	101.93	87.83%	7.13	1.95	9.08	33.44	857.72	2.77E-06	88.50	78.47%
111	7.53	1.95	9.48	25.24	880.25	2.79E-06	101.66	87.83%	7.12	1.95	9.07	48.80	857.72	2.78E-06	90.15	79.93%
112	7.53	1.95	9.48	24.74	880.25	2.79E-06	100.53	86.85%	7.12	1.95	9.07	44.26	857.72	2.78E-06	89.89	79.69%
113	7.53	1.95	9.48	30.88	880.25	2.79E-06	101.66	87.82%	7.12	1.95	9.07	38.85	857.72	2.78E-06	90.15	79.93%
114	7.53	1.95	9.48	37.50	882.56	2.78E-06	101.06	87.08%	7.14	1.95	9.09	28.90	857.72	2.79E-06	90.41	80.16%
115	7.53	1.95	9.48	28.04	880.25	2.78E-06	101.92	88.05%	7.14	1.95	9.09	32.96	857.72	2.78E-06	89.32	79.19%
116	7.53	1.95	9.48	33.24	880.25	2.76E-06	101.58	87.76%	7.13	1.95	9.08	37.01	855.41	2.78E-06	89.01	79.13%
117	7.52	1.95	9.46	39.33	880.25	2.78E-06	101.62	87.79%	7.12	1.95	9.07	50.09	857.72	2.78E-06	89.58	79.42%
118	7.54	1.95	9.48	38.44	877.93	2.78E-06	101.35	87.79%	7.12	1.95	9.07	46.94	855.41	2.78E-06	89.88	79.90%
119	7.53	1.95	9.48	33.67	880.25	2.78E-06	100.79	87.07%	7.12	1.95	9.07	45.56	857.72	2.79E-06	90.40	80.15%
120	7.54	1.95	9.48	38.86	880.25	2.78E-06	99.66	86.10%	7.14	1.95	9.09	36.09	857.72	2.78E-06	89.87	79.68%
121	7.54	1.95	9.49	35.08	880.25	2.77E-06	100.19	86.56%	7.13	1.95	9.08	41.94	857.72	2.78E-06	89.31	79.18%
122	7.53	1.95	9.48	36.01	877.93	2.76E-06	99.90	86.53%	7.14	1.95	9.09	38.35	857.72	2.78E-06	90.13	79.91%

123	7.52	1.95	9.47	37.85	877.93	2.78E-06	101.05	87.53%	7.13	1.95	9.08	45.10	857.72	2.78E-06	89.87	79.68%
124	7.53	1.95	9.48	40.71	877.93	2.77E-06	100.19	86.78%	7.12	1.95	9.07	56.38	857.72	2.78E-06	90.13	79.91%
125	7.54	1.95	9.49	35.03	880.25	2.78E-06	100.48	86.81%	7.13	1.95	9.08	41.46	857.72	2.78E-06	89.87	79.68%
126	7.55	1.95	9.49	28.40	875.61	2.78E-06	100.21	87.03%	7.14	1.95	9.09	29.69	857.72	2.78E-06	89.00	78.91%
127	7.54	1.95	9.49	38.80	875.61	2.77E-06	99.62	86.52%	7.14	1.95	9.09	40.13	857.72	2.78E-06	89.30	79.17%
128	7.54	1.95	9.49	38.81	877.93	2.77E-06	100.74	87.26%	7.14	1.95	9.09	46.93	857.72	2.78E-06	90.12	79.90%
129	7.53	1.95	9.48	44.94	877.93	2.76E-06	99.88	86.52%	7.13	1.95	9.08	48.71	857.72	2.78E-06	89.86	79.67%
130	7.53	1.95	9.48	43.50	880.25	2.75E-06	99.59	86.04%	7.13	1.95	9.08	49.59	857.72	2.78E-06	89.30	79.17%
131	7.54	1.95	9.49	36.42	880.25	2.78E-06	101.03	87.28%	7.13	1.95	9.08	46.43	857.72	2.78E-06	89.30	79.17%
132	7.55	1.95	9.50	40.68	875.61	2.77E-06	99.61	86.51%	7.14	1.95	9.09	43.71	857.72	2.78E-06	89.55	79.40%
133	7.54	1.95	9.49	41.13	877.93	2.77E-06	99.61	86.28%	7.15	1.95	9.10	39.19	857.72	2.78E-06	89.55	79.40%
134	7.55	1.95	9.50	33.56	877.93	2.78E-06	100.46	87.02%	7.12	1.95	9.07	66.28	855.41	2.78E-06	89.55	79.61%
135	7.54	1.95	9.49	43.48	875.61	2.78E-06	99.90	86.76%	7.13	1.95	9.08	54.54	855.41	2.78E-06	89.55	79.61%
136	7.53	1.95	9.48	53.84	875.61	2.77E-06	99.61	86.51%	7.13	1.95	9.08	48.17	855.41	2.78E-06	89.55	79.61%
137	7.55	1.95	9.49	40.16	875.61	2.77E-06	99.60	86.51%	7.13	1.95	9.08	44.11	855.41	2.78E-06	88.99	79.11%
138	7.55	1.95	9.50	40.16	877.93	2.77E-06	99.60	86.27%	7.14	1.95	9.09	45.92	857.72	2.78E-06	88.72	78.66%
139	7.55	1.95	9.49	39.66	877.93	2.76E-06	99.30	86.02%	7.14	1.95	9.09	42.74	857.72	2.78E-06	88.16	78.16%
140	7.54	1.95	9.49	48.18	875.61	2.76E-06	99.86	86.73%	7.14	1.95	9.09	53.19	857.72	2.78E-06	88.72	78.66%

141	7.54	1.95	9.49	48.18	875.61	2.78E-06	100.45	87.24%	7.14	1.95	9.09	50.92	857.72	2.78E-06	89.28	79.16%
142	7.54	1.95	9.49	50.98	875.61	2.78E-06	100.45	87.24%	7.13	1.95	9.08	57.65	857.72	2.78E-06	88.72	78.66%
143	7.55	1.95	9.50	34.42	877.93	2.78E-06	99.89	86.52%	7.14	1.95	9.09	49.05	855.41	2.78E-06	87.59	77.87%
144	7.54	1.95	9.49	47.20	877.93	2.76E-06	99.30	86.01%	7.15	1.95	9.10	41.82	857.72	2.78E-06	88.15	78.16%
145	7.55	1.95	9.50	46.24	877.93	2.76E-06	98.74	85.53%	7.15	1.95	9.10	41.39	855.41	2.78E-06	88.15	78.37%
146	7.55	1.95	9.49	50.03	875.61	2.78E-06	100.73	87.49%	7.15	1.95	9.10	49.12	855.41	2.78E-06	89.28	79.37%
147	7.55	1.95	9.49	52.87	877.93	2.79E-06	99.90	86.53%	7.14	1.95	9.09	62.65	855.41	2.77E-06	87.89	78.14%
148	7.54	1.95	9.49	56.16	877.93	2.78E-06	99.88	86.51%	7.13	1.95	9.08	68.98	855.41	2.78E-06	89.28	79.37%
149	7.55	1.95	9.50	43.38	875.61	2.78E-06	100.17	87.00%	7.15	1.95	9.10	48.17	857.72	2.77E-06	88.45	78.42%
150	7.57	1.95	9.52	36.29	877.93	2.78E-06	99.31	86.02%	7.15	1.95	9.10	50.45	857.72	2.77E-06	87.89	77.92%
151	7.56	1.95	9.51	38.63	875.61	2.77E-06	99.02	86.00%	7.15	1.95	9.10	51.81	857.72	2.77E-06	89.01	78.91%
152	7.55	1.95	9.50	55.20	875.61	2.75E-06	97.88	85.01%	7.15	1.95	9.10	54.49	857.72	2.78E-06	88.14	78.15%
153	7.55	1.95	9.50	59.46	875.61	2.77E-06	99.02	86.00%	7.14	1.95	9.09	57.18	857.72	2.78E-06	88.70	78.65%
154	7.54	1.95	9.49	58.49	877.93	2.76E-06	99.28	86.00%	7.13	1.95	9.08	68.89	857.72	2.77E-06	88.44	78.42%
155	7.55	1.95	9.49	58.02	875.61	2.78E-06	100.16	86.99%	7.14	1.95	9.09	48.12	857.72	2.78E-06	89.53	79.38%
156	7.56	1.95	9.51	43.83	875.61	2.78E-06	99.59	86.50%	7.15	1.95	9.10	45.41	857.72	2.78E-06	88.96	78.87%
157	7.55	1.95	9.50	49.47	875.61	2.78E-06	98.74	85.75%	7.15	1.95	9.10	47.23	857.72	2.77E-06	89.00	78.91%
158	7.56	1.95	9.51	48.08	877.93	2.78E-06	99.30	86.01%	7.14	1.95	9.09	70.75	857.72	2.78E-06	88.70	78.64%

159	7.55	1.95	9.50	57.99	877.93	2.76E-06	98.72	85.51%	7.14	1.95	9.09	58.04	857.72	2.78E-06	88.40	78.37%
160	7.55	1.95	9.50	50.91	877.93	2.78E-06	100.15	86.75%	7.14	1.95	9.09	63.03	857.72	2.78E-06	88.96	78.87%
161	7.57	1.95	9.52	41.44	877.93	2.77E-06	99.00	85.76%	7.15	1.95	9.10	54.46	857.72	2.78E-06	88.40	78.37%
162	7.56	1.95	9.50	50.88	875.61	2.78E-06	99.29	86.24%	7.16	1.95	9.11	49.49	857.72	2.78E-06	88.39	78.37%
163	7.55	1.95	9.50	56.57	877.93	2.78E-06	99.29	86.01%	7.15	1.95	9.10	58.54	857.72	2.78E-06	88.13	78.14%
164	7.56	1.95	9.51	55.67	877.93	2.77E-06	99.00	85.76%	7.15	1.95	9.10	57.63	857.72	2.78E-06	88.13	78.14%
165	7.55	1.95	9.49	66.96	875.61	2.75E-06	98.97	85.96%	7.16	1.95	9.11	49.02	855.41	2.78E-06	87.83	78.08%
166	7.55	1.95	9.50	66.02	875.61	2.78E-06	100.14	86.98%	7.14	1.95	9.09	66.19	857.72	2.78E-06	88.39	78.37%
167	7.56	1.95	9.51	46.14	877.93	2.78E-06	99.58	86.26%	7.15	1.95	9.10	54.45	857.72	2.78E-06	88.39	78.37%
168	7.56	1.95	9.51	54.19	877.93	2.77E-06	99.00	85.75%	7.16	1.95	9.11	54.03	857.72	2.77E-06	87.31	77.41%
169	7.57	1.95	9.52	49.95	877.93	2.78E-06	99.58	86.25%	7.17	1.95	9.12	46.32	857.72	2.78E-06	88.39	78.36%
170	7.57	1.95	9.52	54.70	880.25	2.78E-06	99.28	85.77%	7.16	1.95	9.11	54.93	855.41	2.77E-06	87.87	78.11%
171	7.56	1.95	9.51	58.48	880.25	2.77E-06	98.99	85.52%	7.15	1.95	9.10	65.34	857.72	2.78E-06	89.25	79.13%
172	7.55	1.95	9.49	72.13	880.25	2.75E-06	97.85	84.54%	7.15	1.95	9.10	65.30	857.72	2.77E-06	88.43	78.40%
173	7.57	1.95	9.51	47.55	877.93	2.76E-06	99.26	85.98%	7.15	1.95	9.10	58.97	857.72	2.78E-06	88.69	78.63%
174	7.56	1.95	9.51	56.57	877.93	2.77E-06	99.55	86.23%	7.16	1.95	9.11	58.53	860.04	2.78E-06	88.12	77.92%
175	7.56	1.95	9.51	61.25	877.93	2.77E-06	98.99	85.74%	7.16	1.95	9.11	53.53	857.72	2.78E-06	88.38	78.36%
176	7.57	1.95	9.52	54.17	875.61	2.78E-06	99.27	86.22%	7.16	1.95	9.11	54.45	857.72	2.78E-06	87.56	77.63%

177	7.55	1.95	9.49	71.14	877.93	2.78E-06	99.00	85.76%	7.15	1.95	9.10	58.50	857.72	2.78E-06	88.12	78.13%
178	7.54	1.95	9.49	73.02	877.93	2.78E-06	99.57	86.25%	7.14	1.95	9.09	73.38	857.72	2.76E-06	87.05	77.18%
179	7.56	1.95	9.51	59.36	877.93	2.78E-06	99.27	85.99%	7.15	1.95	9.10	57.11	857.72	2.78E-06	87.56	77.63%
180	7.58	1.95	9.52	49.43	877.93	2.78E-06	99.00	85.76%	7.16	1.95	9.11	49.42	857.72	2.78E-06	88.12	78.13%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 0° (Data 2)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	U1 (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	U1 (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	0.00	1.95	1.95	3.12	861.71	2.79E-06	0.00	0.00%	4.62	1.95	6.57	5.27	850.78	2.81E-06	0.00	0.00%
1	6.04	1.95	7.99	-24.39	873.30	2.79E-06	33.48	29.16%	5.19	1.95	7.14	-23.25	850.78	2.74E-06	39.03	34.88%
2	6.32	1.95	8.27	-24.86	877.93	2.79E-06	54.46	47.18%	5.73	1.95	7.68	-25.40	850.78	2.73E-06	64.45	57.61%
3	6.52	1.95	8.47	-26.76	880.25	2.80E-06	64.28	55.53%	6.08	1.95	8.03	-21.35	850.78	2.77E-06	73.64	65.83%
4	6.68	1.95	8.63	-26.84	884.88	2.79E-06	69.19	59.46%	6.29	1.95	8.24	-30.58	850.78	2.73E-06	74.22	66.34%
5	6.79	1.95	8.74	-29.42	889.51	2.80E-06	73.36	62.72%	6.42	1.95	8.37	-29.45	850.78	2.78E-06	76.67	68.53%
6	6.89	1.95	8.84	-32.42	889.51	2.79E-06	76.55	65.44%	6.52	1.95	8.47	-28.14	850.78	2.79E-06	78.81	70.44%
7	6.97	1.95	8.92	-37.64	889.51	2.79E-06	78.81	67.38%	6.61	1.95	8.56	-29.31	853.09	2.79E-06	81.07	72.27%
8	7.03	1.95	8.98	-25.80	889.51	2.79E-06	81.07	69.31%	6.67	1.95	8.62	-26.09	850.78	2.77E-06	82.04	73.33%
9	7.07	1.95	9.02	-25.49	891.83	2.78E-06	83.65	71.33%	6.72	1.95	8.67	-27.56	855.41	2.82E-06	84.30	74.95%
10	7.12	1.95	9.07	-31.53	891.83	2.78E-06	86.22	73.52%	6.77	1.95	8.72	-23.36	855.41	2.76E-06	83.47	74.21%
11	7.17	1.95	9.11	-41.74	894.14	2.79E-06	88.42	75.20%	6.82	1.95	8.77	-35.34	855.41	2.79E-06	86.16	76.59%
12	7.20	1.95	9.15	-43.32	894.14	2.81E-06	88.93	75.64%	6.85	1.95	8.80	-32.85	857.72	2.78E-06	87.03	77.16%
13	7.23	1.95	9.18	-40.24	894.14	2.79E-06	90.11	76.64%	6.87	1.95	8.82	-26.78	857.72	2.79E-06	88.41	78.39%
14	7.25	1.95	9.20	-33.92	894.14	2.79E-06	91.24	77.60%	6.90	1.95	8.85	-29.98	855.41	2.77E-06	87.64	77.91%
15	7.27	1.95	9.22	-34.01	894.14	2.79E-06	92.94	79.04%	6.92	1.95	8.87	-22.95	857.72	2.74E-06	86.31	76.52%

16	7.28	1.95	9.23	-33.60	898.78	2.78E-06	93.52	79.13%	6.94	1.95	8.89	-36.39	857.72	2.74E-06	87.41	77.50%
17	7.31	1.95	9.26	-36.98	898.78	2.80E-06	94.90	80.30%	6.96	1.95	8.91	-32.90	857.72	2.78E-06	88.71	78.65%
18	7.33	1.95	9.27	-30.57	896.46	2.81E-06	95.74	81.22%	6.98	1.95	8.93	-27.20	860.04	2.79E-06	89.53	79.16%
19	7.32	1.95	9.27	-28.28	894.14	2.80E-06	95.46	81.19%	6.99	1.95	8.94	-25.00	857.72	2.79E-06	90.09	79.88%
20	7.35	1.95	9.29	-32.06	896.46	2.79E-06	97.45	82.66%	6.99	1.95	8.94	-23.26	857.72	2.78E-06	90.39	80.14%
21	7.36	1.95	9.31	-32.59	898.78	2.82E-06	98.30	83.17%	7.01	1.95	8.96	-27.80	860.04	2.78E-06	90.39	79.92%
22	7.37	1.95	9.32	-35.43	896.46	2.79E-06	98.00	83.14%	7.02	1.95	8.97	-25.16	857.72	2.82E-06	92.01	81.58%
23	7.38	1.95	9.33	-29.44	896.46	2.79E-06	98.00	83.13%	7.03	1.95	8.98	-31.50	860.04	2.77E-06	90.41	79.95%
24	7.39	1.95	9.34	-31.85	896.46	2.82E-06	98.85	83.86%	7.03	1.95	8.98	-17.62	860.04	2.80E-06	92.04	81.38%
25	7.39	1.95	9.34	-27.67	896.46	2.79E-06	98.56	83.60%	7.05	1.95	9.00	-29.81	857.72	2.74E-06	89.61	79.45%
26	7.39	1.95	9.34	-24.88	896.46	2.79E-06	99.69	84.56%	7.05	1.95	9.00	-22.64	860.04	2.77E-06	90.96	80.43%
27	7.40	1.95	9.35	-29.13	896.46	2.82E-06	101.13	85.79%	7.06	1.95	9.01	-24.48	860.04	2.82E-06	92.57	81.85%
28	7.42	1.95	9.36	-28.25	896.46	2.79E-06	100.25	85.04%	7.07	1.95	9.02	-24.52	860.04	2.81E-06	92.29	81.61%
29	7.43	1.95	9.38	-37.23	898.78	2.80E-06	100.53	85.06%	7.08	1.95	9.03	-27.74	860.04	2.80E-06	91.45	80.87%
30	7.44	1.95	9.38	-35.41	896.46	2.79E-06	100.24	85.03%	7.06	1.95	9.01	-14.20	860.04	2.80E-06	92.59	81.87%
31	7.42	1.95	9.37	-18.98	898.78	2.78E-06	99.65	84.31%	7.07	1.95	9.02	-16.94	857.72	2.80E-06	92.58	82.08%
32	7.42	1.95	9.37	-18.53	896.46	2.78E-06	101.33	85.96%	7.09	1.95	9.04	-22.41	860.04	2.75E-06	90.96	80.43%
33	7.43	1.95	9.38	-21.38	898.78	2.78E-06	101.33	85.74%	7.10	1.95	9.05	-28.80	857.72	2.74E-06	90.69	80.41%

34	7.44	1.95	9.38	-23.29	896.46	2.78E-06	101.32	85.95%	7.09	1.95	9.04	-21.11	857.72	2.80E-06	93.14	82.58%
35	7.45	1.95	9.39	-32.74	896.46	2.78E-06	101.62	86.20%	7.10	1.95	9.05	-24.77	864.67	2.82E-06	94.25	82.89%
36	7.44	1.95	9.39	-21.50	896.46	2.79E-06	100.78	85.49%	7.11	1.95	9.06	-21.17	864.67	2.79E-06	94.56	83.16%
37	7.45	1.95	9.40	-23.42	896.46	2.78E-06	101.04	85.71%	7.11	1.95	9.06	-24.39	864.67	2.78E-06	93.44	82.18%
38	7.43	1.95	9.38	-3.68	896.46	2.79E-06	102.47	86.92%	7.11	1.95	9.06	-22.61	866.99	2.74E-06	92.34	81.00%
39	7.44	1.95	9.39	-6.52	894.14	2.80E-06	102.76	87.40%	7.11	1.95	9.06	-17.19	864.67	2.79E-06	94.55	83.15%
40	7.46	1.95	9.41	-23.04	894.14	2.82E-06	102.21	86.93%	7.13	1.95	9.08	-24.52	864.67	2.78E-06	93.70	82.41%
41	7.47	1.95	9.42	-27.32	894.14	2.81E-06	101.91	86.68%	7.12	1.95	9.07	-19.07	864.67	2.77E-06	94.27	82.91%
42	7.47	1.95	9.42	-22.15	896.46	2.81E-06	102.48	86.93%	7.12	1.95	9.07	-10.92	864.67	2.84E-06	96.77	85.10%
43	7.47	1.95	9.42	-17.95	891.83	2.82E-06	102.77	87.63%	7.10	1.95	9.05	-0.03	864.67	2.77E-06	94.27	82.91%
44	7.46	1.95	9.41	-12.28	894.14	2.82E-06	103.91	88.37%	7.11	1.95	9.06	-0.96	864.67	2.78E-06	94.26	82.90%
45	7.46	1.95	9.41	-11.37	894.14	2.81E-06	103.61	88.12%	7.11	1.95	9.06	2.20	864.67	2.80E-06	94.81	83.38%
46	7.47	1.95	9.41	-13.28	894.14	2.80E-06	102.17	86.89%	7.11	1.95	9.06	-0.07	864.67	2.77E-06	94.26	82.90%
47	7.47	1.95	9.42	-11.91	894.14	2.79E-06	102.43	87.12%	7.11	1.95	9.06	-1.00	864.67	2.79E-06	95.09	83.63%
48	7.48	1.95	9.43	-18.54	894.14	2.80E-06	102.16	86.89%	7.12	1.95	9.07	-6.93	864.67	2.76E-06	93.42	82.16%
49	7.47	1.95	9.42	-7.72	894.14	2.81E-06	102.45	87.13%	7.11	1.95	9.06	-1.51	864.67	2.80E-06	94.79	83.37%
50	7.48	1.95	9.43	-7.73	891.83	2.79E-06	102.99	87.82%	7.12	1.95	9.07	1.65	864.67	2.81E-06	95.63	84.11%
51	7.48	1.95	9.43	-8.69	894.14	2.79E-06	102.98	87.59%	7.12	1.95	9.07	3.91	864.67	2.78E-06	95.36	83.87%

52	7.47	1.95	9.42	-0.23	894.14	2.79E-06	102.98	87.58%	7.13	1.95	9.08	-6.56	864.67	2.77E-06	93.68	82.39%
53	7.48	1.95	9.42	-5.91	891.83	2.78E-06	102.11	87.07%	7.14	1.95	9.09	-10.22	864.67	2.81E-06	95.62	84.10%
54	7.48	1.95	9.43	-5.94	894.14	2.78E-06	102.37	87.07%	7.15	1.95	9.10	-18.00	864.67	2.77E-06	93.11	81.89%
55	7.49	1.95	9.44	-12.57	891.83	2.78E-06	102.67	87.55%	7.15	1.95	9.10	-12.56	864.67	2.77E-06	93.67	82.38%
56	7.49	1.95	9.44	-5.04	891.83	2.79E-06	102.96	87.80%	7.14	1.95	9.09	2.42	864.67	2.79E-06	93.93	82.61%
57	7.50	1.95	9.45	-10.28	891.83	2.79E-06	102.39	87.31%	7.14	1.95	9.09	-1.24	866.99	2.77E-06	93.66	82.15%
58	7.49	1.95	9.44	-2.25	891.83	2.81E-06	103.56	88.30%	7.16	1.95	9.11	-7.64	866.99	2.81E-06	95.04	83.36%
59	7.49	1.95	9.44	4.81	894.14	2.79E-06	103.52	88.04%	7.16	1.95	9.11	-12.22	866.99	2.83E-06	95.28	83.58%
60	7.49	1.95	9.44	-3.22	894.14	2.80E-06	103.82	88.30%	7.15	1.95	9.10	6.88	864.67	2.78E-06	94.76	83.34%
61	7.50	1.95	9.44	-1.84	891.83	2.79E-06	102.95	87.78%	7.16	1.95	9.11	0.49	864.67	2.78E-06	94.20	82.85%
62	7.51	1.95	9.46	-7.07	891.83	2.79E-06	102.38	87.30%	7.17	1.95	9.12	-8.65	866.99	2.78E-06	94.76	83.11%
63	7.50	1.95	9.45	2.36	891.83	2.78E-06	102.34	87.26%	7.16	1.95	9.11	0.01	864.67	2.78E-06	93.92	82.60%
64	7.49	1.95	9.44	9.89	894.14	2.78E-06	102.07	86.81%	7.18	1.95	9.13	-6.40	866.99	2.79E-06	94.46	82.86%
65	7.49	1.95	9.43	15.06	894.14	2.78E-06	102.07	86.81%	7.18	1.95	9.13	-5.51	864.67	2.77E-06	93.63	82.35%
66	7.50	1.95	9.45	3.24	891.83	2.80E-06	102.09	87.05%	7.18	1.95	9.13	-2.35	866.99	2.78E-06	93.62	82.11%
67	7.51	1.95	9.46	-4.81	894.14	2.80E-06	102.66	87.31%	7.18	1.95	9.13	-6.47	866.99	2.80E-06	94.73	83.09%
68	7.51	1.95	9.46	0.84	891.83	2.80E-06	102.65	87.53%	7.19	1.95	9.14	-5.12	864.67	2.80E-06	94.73	83.31%
69	7.50	1.95	9.45	9.32	894.14	2.80E-06	102.65	87.30%	7.18	1.95	9.13	1.73	864.67	2.79E-06	95.01	83.56%

70	7.51	1.95	9.45	4.12	891.83	2.79E-06	102.91	87.75%	7.19	1.95	9.14	2.15	864.67	2.78E-06	94.17	82.82%
71	7.51	1.95	9.46	6.94	894.14	2.78E-06	102.87	87.49%	7.19	1.95	9.14	-1.52	864.67	2.81E-06	94.42	83.04%
72	7.51	1.95	9.46	3.61	894.14	2.79E-06	103.47	88.00%	7.18	1.95	9.13	12.17	866.99	2.79E-06	95.00	83.33%
73	7.52	1.95	9.47	0.27	891.83	2.80E-06	102.07	87.04%	7.18	1.95	9.13	9.86	866.99	2.79E-06	93.87	82.34%
74	7.51	1.95	9.46	12.52	889.51	2.80E-06	102.06	87.26%	7.18	1.95	9.13	13.04	866.99	2.81E-06	94.98	83.31%
75	7.50	1.95	9.45	14.40	891.83	2.81E-06	102.93	87.77%	7.17	1.95	9.12	13.92	864.67	2.79E-06	94.43	83.05%
76	7.50	1.95	9.45	17.24	889.51	2.80E-06	103.19	88.22%	7.16	1.95	9.11	28.46	864.67	2.78E-06	93.59	82.31%
77	7.51	1.95	9.45	12.98	894.14	2.79E-06	103.46	87.99%	7.16	1.95	9.11	22.99	864.67	2.79E-06	94.43	83.05%
78	7.52	1.95	9.46	8.70	894.14	2.79E-06	102.32	87.02%	7.15	1.95	9.10	28.43	864.67	2.81E-06	94.41	83.03%
79	7.52	1.95	9.47	7.74	894.14	2.79E-06	102.88	87.50%	7.16	1.95	9.11	22.98	864.67	2.81E-06	95.54	84.03%
80	7.52	1.95	9.47	11.50	894.14	2.78E-06	102.84	87.46%	7.15	1.95	9.10	22.51	864.67	2.80E-06	94.70	83.29%
81	7.53	1.95	9.48	7.23	889.51	2.78E-06	102.84	87.92%	7.17	1.95	9.12	13.85	864.67	2.81E-06	94.97	83.52%
82	7.51	1.95	9.46	24.71	889.51	2.80E-06	103.17	88.21%	7.18	1.95	9.13	4.72	864.67	2.79E-06	94.42	83.04%
83	7.51	1.95	9.46	24.71	891.83	2.81E-06	104.04	88.72%	7.16	1.95	9.11	27.47	864.67	2.79E-06	93.85	82.54%
84	7.52	1.95	9.47	13.35	889.51	2.80E-06	103.17	88.20%	7.16	1.95	9.11	20.18	866.99	2.79E-06	94.98	83.31%
85	7.53	1.95	9.48	9.55	889.51	2.79E-06	102.30	87.46%	7.15	1.95	9.10	35.61	864.67	2.79E-06	94.98	83.53%
86	7.53	1.95	9.48	11.42	889.51	2.78E-06	102.00	87.20%	7.15	1.95	9.10	31.09	866.99	2.79E-06	94.98	83.31%
87	7.52	1.95	9.47	22.29	889.51	2.78E-06	102.56	87.68%	7.15	1.95	9.10	27.87	864.67	2.76E-06	93.31	82.06%

88	7.53	1.95	9.48	9.48	889.51	2.78E-06	101.13	86.46%	7.16	1.95	9.11	24.23	864.67	2.77E-06	93.02	81.81%
89	7.53	1.95	9.48	17.06	889.51	2.79E-06	102.29	87.45%	7.17	1.95	9.12	21.01	864.67	2.78E-06	93.56	82.28%
90	7.52	1.95	9.47	21.77	889.51	2.78E-06	101.69	86.94%	7.16	1.95	9.11	30.56	864.67	2.78E-06	93.28	82.04%
91	7.52	1.95	9.47	25.07	889.51	2.81E-06	102.88	87.96%	7.17	1.95	9.12	24.64	864.67	2.74E-06	92.19	81.08%
92	7.53	1.95	9.48	14.18	889.51	2.81E-06	102.31	87.47%	7.16	1.95	9.11	28.26	864.67	2.81E-06	94.38	83.00%
93	7.53	1.95	9.48	17.01	889.51	2.81E-06	102.31	87.47%	7.14	1.95	9.09	45.47	864.67	2.79E-06	93.27	82.03%
94	7.54	1.95	9.49	20.30	889.51	2.78E-06	101.41	86.70%	7.16	1.95	9.11	25.51	864.67	2.82E-06	93.51	82.24%
95	7.54	1.95	9.48	19.32	889.51	2.79E-06	101.14	86.47%	7.17	1.95	9.12	21.85	864.67	2.81E-06	92.66	81.50%
96	7.52	1.95	9.47	32.56	889.51	2.78E-06	101.41	86.70%	7.17	1.95	9.12	29.11	864.67	2.80E-06	92.96	81.76%
97	7.53	1.95	9.47	26.88	889.51	2.78E-06	102.53	87.66%	7.17	1.95	9.12	28.19	864.67	2.80E-06	92.95	81.75%
98	7.53	1.95	9.48	19.29	889.51	2.79E-06	102.26	87.43%	7.17	1.95	9.12	31.40	864.67	2.80E-06	93.52	82.25%
99	7.53	1.95	9.47	22.59	889.51	2.77E-06	101.37	86.66%	7.17	1.95	9.12	35.05	864.67	2.80E-06	93.52	82.25%
100	7.53	1.95	9.48	28.72	889.51	2.79E-06	101.13	86.46%	7.17	1.95	9.12	40.04	864.67	2.76E-06	92.16	81.05%
101	7.53	1.95	9.48	21.12	889.51	2.78E-06	100.54	85.95%	7.18	1.95	9.13	33.66	864.67	2.77E-06	91.87	80.80%
102	7.52	1.95	9.47	33.89	889.51	2.79E-06	101.12	86.45%	7.19	1.95	9.14	30.94	864.67	2.78E-06	92.70	81.53%
103	7.52	1.95	9.47	30.09	889.51	2.78E-06	101.39	86.68%	7.18	1.95	9.13	31.37	864.67	2.78E-06	93.26	82.02%
104	7.53	1.95	9.48	26.78	889.51	2.78E-06	101.09	86.43%	7.17	1.95	9.12	43.64	864.67	2.78E-06	92.69	81.52%
105	7.53	1.95	9.47	32.43	889.51	2.79E-06	102.25	87.41%	7.18	1.95	9.13	36.83	864.67	2.79E-06	93.24	82.00%

106	7.53	1.95	9.48	30.55	889.51	2.77E-06	100.23	85.69%	7.17	1.95	9.12	34.52	864.67	2.81E-06	93.21	81.98%
107	7.54	1.95	9.49	26.74	889.51	2.80E-06	101.40	86.69%	7.17	1.95	9.12	32.68	864.67	2.79E-06	92.67	81.50%
108	7.54	1.95	9.48	35.73	889.51	2.77E-06	100.78	86.16%	7.17	1.95	9.12	31.28	864.67	2.79E-06	91.54	80.50%
109	7.53	1.95	9.48	39.49	889.51	2.79E-06	101.67	86.92%	7.18	1.95	9.13	30.84	864.67	2.78E-06	92.39	81.26%
110	7.54	1.95	9.49	29.11	889.51	2.78E-06	102.20	87.37%	7.18	1.95	9.13	44.93	864.67	2.78E-06	91.82	80.76%
111	7.55	1.95	9.50	25.32	889.51	2.78E-06	101.93	87.15%	7.17	1.95	9.12	49.01	864.67	2.79E-06	92.66	81.49%
112	7.55	1.95	9.50	30.99	889.51	2.78E-06	101.37	86.66%	7.18	1.95	9.13	37.66	864.67	2.77E-06	91.85	80.78%
113	7.55	1.95	9.49	37.60	889.51	2.76E-06	100.47	85.90%	7.18	1.95	9.13	33.54	864.67	2.79E-06	92.09	80.99%
114	7.56	1.95	9.50	25.29	889.51	2.78E-06	101.63	86.88%	7.20	1.95	9.15	24.44	864.67	2.81E-06	93.76	82.46%
115	7.53	1.95	9.48	42.76	889.51	2.79E-06	102.22	87.39%	7.19	1.95	9.14	33.07	864.67	2.77E-06	91.28	80.28%
116	7.55	1.95	9.49	34.73	889.51	2.81E-06	102.25	87.42%	7.19	1.95	9.14	42.65	864.67	2.78E-06	91.82	80.75%
117	7.55	1.95	9.50	33.32	889.51	2.79E-06	101.09	86.43%	7.19	1.95	9.14	38.08	864.67	2.76E-06	90.45	79.55%
118	7.56	1.95	9.51	26.18	889.51	2.79E-06	101.08	86.42%	7.18	1.95	9.13	48.10	864.67	2.79E-06	92.08	80.99%
119	7.55	1.95	9.50	40.39	889.51	2.78E-06	100.22	85.68%	7.19	1.95	9.14	36.25	864.67	2.76E-06	91.57	80.53%
120	7.55	1.95	9.50	37.06	889.51	2.78E-06	100.78	86.16%	7.19	1.95	9.14	33.95	864.67	2.78E-06	91.81	80.75%
121	7.54	1.95	9.49	47.92	889.51	2.78E-06	101.05	86.39%	7.19	1.95	9.14	40.31	864.67	2.79E-06	92.08	80.98%
122	7.54	1.95	9.49	40.81	889.51	2.79E-06	101.64	86.90%	7.19	1.95	9.14	39.88	864.67	2.79E-06	92.07	80.98%
123	7.56	1.95	9.50	38.94	889.51	2.79E-06	101.07	86.41%	7.18	1.95	9.13	47.58	864.67	2.78E-06	91.80	80.74%

124	7.56	1.95	9.51	28.03	889.51	2.79E-06	101.64	86.89%	7.19	1.95	9.14	41.67	864.67	2.78E-06	91.81	80.74%
125	7.56	1.95	9.51	38.93	889.51	2.78E-06	101.34	86.64%	7.18	1.95	9.13	47.58	864.67	2.78E-06	91.80	80.74%
126	7.55	1.95	9.50	43.63	889.51	2.78E-06	100.77	86.15%	7.20	1.95	9.15	32.57	864.67	2.78E-06	92.36	81.23%
127	7.55	1.95	9.50	42.69	889.51	2.76E-06	99.89	85.40%	7.20	1.95	9.15	35.73	866.99	2.78E-06	92.09	80.77%
128	7.56	1.95	9.51	39.40	889.51	2.78E-06	101.04	86.38%	7.20	1.95	9.15	33.91	864.67	2.79E-06	92.07	80.97%
129	7.55	1.95	9.50	43.63	889.51	2.79E-06	101.07	86.40%	7.19	1.95	9.14	42.55	864.67	2.79E-06	92.63	81.46%
130	7.55	1.95	9.50	45.04	889.51	2.79E-06	101.07	86.40%	7.19	1.95	9.14	42.98	864.67	2.76E-06	91.55	80.52%
131	7.56	1.95	9.50	38.39	889.51	2.80E-06	100.79	86.17%	7.18	1.95	9.13	49.36	864.67	2.78E-06	92.09	80.99%
132	7.56	1.95	9.51	36.50	889.51	2.77E-06	100.18	85.64%	7.18	1.95	9.13	47.97	864.67	2.77E-06	91.26	80.26%
133	7.57	1.95	9.51	34.61	889.51	2.80E-06	101.35	86.65%	7.19	1.95	9.14	40.21	864.67	2.78E-06	90.67	79.74%
134	7.56	1.95	9.50	47.85	889.51	2.78E-06	100.76	86.14%	7.19	1.95	9.14	46.59	864.67	2.77E-06	90.13	79.27%
135	7.56	1.95	9.51	47.38	889.51	2.79E-06	101.05	86.39%	7.20	1.95	9.15	42.97	864.67	2.75E-06	90.71	79.78%
136	7.55	1.95	9.50	51.14	889.51	2.78E-06	100.76	86.14%	7.19	1.95	9.14	40.21	864.67	2.79E-06	92.62	81.46%
137	7.56	1.95	9.50	46.88	889.51	2.79E-06	100.49	85.91%	7.19	1.95	9.14	50.68	864.67	2.77E-06	91.25	80.25%
138	7.56	1.95	9.51	41.66	889.51	2.79E-06	100.48	85.91%	7.19	1.95	9.14	50.24	864.67	2.79E-06	92.05	80.96%
139	7.56	1.95	9.51	45.45	889.51	2.80E-06	100.21	85.67%	7.19	1.95	9.14	51.15	864.67	2.79E-06	91.49	80.46%
140	7.58	1.95	9.52	31.21	889.51	2.81E-06	100.50	85.92%	7.20	1.95	9.15	47.07	864.67	2.78E-06	91.22	80.22%
141	7.56	1.95	9.51	44.94	889.51	2.81E-06	99.93	85.43%	7.19	1.95	9.14	54.77	866.99	2.80E-06	91.18	79.98%

142	7.56	1.95	9.51	46.38	889.51	2.81E-06	100.50	85.92%	7.20	1.95	9.15	45.68	864.67	2.78E-06	90.39	79.49%
143	7.55	1.95	9.50	52.04	889.51	2.82E-06	101.36	86.65%	7.21	1.95	9.16	40.68	864.67	2.78E-06	90.95	79.99%
144	7.57	1.95	9.52	43.53	889.51	2.80E-06	100.20	85.66%	7.19	1.95	9.14	53.39	866.99	2.80E-06	89.49	78.49%
145	7.57	1.95	9.52	48.28	889.51	2.82E-06	100.50	85.92%	7.19	1.95	9.14	53.82	864.67	2.79E-06	90.35	79.46%
146	7.57	1.95	9.52	51.11	889.51	2.82E-06	99.93	85.43%	7.20	1.95	9.15	42.00	866.99	2.79E-06	90.91	79.74%
147	7.58	1.95	9.53	43.53	889.51	2.82E-06	99.93	85.43%	7.20	1.95	9.15	48.39	866.99	2.77E-06	90.11	79.04%
148	7.57	1.95	9.52	62.51	889.51	2.80E-06	99.63	85.17%	7.19	1.95	9.14	57.01	869.31	2.77E-06	89.55	78.34%
149	7.59	1.95	9.54	41.19	889.51	2.82E-06	100.49	85.92%	7.20	1.95	9.15	52.92	866.99	2.77E-06	90.67	79.53%
150	7.58	1.95	9.52	48.75	889.51	2.82E-06	100.77	86.15%	7.19	1.95	9.14	61.10	866.99	2.77E-06	90.11	79.04%
151	7.58	1.95	9.53	50.68	889.51	2.80E-06	99.62	85.17%	7.19	1.95	9.14	55.14	866.99	2.78E-06	90.38	79.27%
152	7.59	1.95	9.54	43.54	889.51	2.78E-06	100.16	85.63%	7.19	1.95	9.14	56.96	866.99	2.76E-06	90.40	79.30%
153	7.57	1.95	9.52	54.89	889.51	2.79E-06	100.46	85.88%	7.21	1.95	9.16	40.61	869.31	2.78E-06	90.37	79.06%
154	7.56	1.95	9.51	60.51	889.51	2.80E-06	101.32	86.62%	7.22	1.95	9.17	38.77	869.31	2.78E-06	90.64	79.29%
155	7.57	1.95	9.51	54.85	887.19	2.79E-06	101.02	86.59%	7.21	1.95	9.16	51.09	869.31	2.76E-06	89.84	78.59%
156	7.57	1.95	9.52	54.86	889.51	2.80E-06	101.32	86.62%	7.22	1.95	9.17	48.38	869.31	2.76E-06	89.84	78.59%
157	7.55	1.95	9.50	65.19	889.51	2.80E-06	101.32	86.62%	7.21	1.95	9.16	51.08	871.62	2.76E-06	89.84	78.38%
158	7.57	1.95	9.52	55.32	889.51	2.78E-06	100.16	85.63%	7.19	1.95	9.14	73.38	869.31	2.76E-06	93.74	82.00%
159	7.58	1.95	9.53	52.96	889.51	2.78E-06	99.59	85.15%	7.21	1.95	9.16	54.74	869.31	2.79E-06	94.28	82.48%

160	7.58	1.95	9.53	46.32	889.51	2.81E-06	100.47	85.89%	7.21	1.95	9.16	57.98	869.31	2.78E-06	92.05	80.52%
161	7.57	1.95	9.51	60.03	889.51	2.80E-06	100.74	86.13%	7.22	1.95	9.17	49.74	869.31	2.75E-06	91.23	79.81%
162	7.57	1.95	9.52	59.55	889.51	2.79E-06	99.88	85.39%	7.22	1.95	9.17	45.63	869.31	2.75E-06	90.68	79.33%
163	7.57	1.95	9.52	60.51	889.51	2.78E-06	100.71	86.10%	7.22	1.95	9.17	44.71	869.31	2.77E-06	91.22	79.80%
164	7.57	1.95	9.52	57.67	889.51	2.79E-06	100.45	85.87%	7.21	1.95	9.16	61.13	869.31	2.80E-06	92.29	80.74%
165	7.58	1.95	9.53	58.64	889.51	2.79E-06	99.31	84.91%	7.21	1.95	9.16	54.25	866.99	2.81E-06	91.99	80.69%
166	7.58	1.95	9.53	57.22	889.51	2.78E-06	99.29	84.89%	7.22	1.95	9.17	46.51	871.62	2.82E-06	92.82	80.99%
167	7.58	1.95	9.53	58.14	889.51	2.78E-06	99.02	84.65%	7.22	1.95	9.17	37.36	869.31	2.78E-06	90.62	79.28%
168	7.58	1.95	9.53	55.79	889.51	2.78E-06	99.85	85.37%	7.22	1.95	9.17	45.59	871.62	2.79E-06	90.88	79.29%
169	7.58	1.95	9.53	52.93	889.51	2.78E-06	100.14	85.62%	7.22	1.95	9.17	57.47	869.31	2.79E-06	90.88	79.51%
170	7.58	1.95	9.53	59.09	889.51	3.01E-06	105.30	90.03%	7.22	1.95	9.17	47.42	869.31	2.79E-06	90.88	79.51%
171	7.58	1.95	9.53	58.63	889.51	2.91E-06	98.36	84.09%	7.22	1.95	9.17	55.64	869.31	2.78E-06	91.18	79.77%
172	7.58	1.95	9.53	62.40	889.51	2.79E-06	97.61	83.45%	7.21	1.95	9.16	55.17	866.99	2.78E-06	91.75	80.47%
173	7.59	1.95	9.54	57.67	889.51	2.80E-06	99.03	84.66%	7.21	1.95	9.16	58.33	869.31	2.76E-06	90.94	79.55%
174	7.59	1.95	9.53	58.62	889.51	2.78E-06	99.58	85.13%	7.22	1.95	9.17	51.97	869.31	2.78E-06	90.62	79.27%
175	7.58	1.95	9.53	60.97	889.51	2.79E-06	98.74	84.41%	7.22	1.95	9.17	56.53	869.31	2.79E-06	92.01	80.49%
176	7.58	1.95	9.53	58.58	889.51	2.79E-06	99.30	84.89%	7.23	1.95	9.18	49.68	866.99	2.75E-06	90.11	79.04%
177	7.58	1.95	9.53	66.19	889.51	2.78E-06	99.01	84.65%	7.22	1.95	9.17	53.33	869.31	2.74E-06	89.84	78.59%

178	7.57	1.95	9.52	68.03	889.51	2.77E-06	100.11	85.58%	7.22	1.95	9.17	55.60	869.31	2.77E-06	91.20	79.78%
179	7.58	1.95	9.53	61.43	889.51	2.78E-06	100.69	86.09%	7.20	1.95	9.15	67.41	869.31	2.78E-06	91.74	80.25%
180	7.59	1.95	9.54	53.84	889.51	2.78E-06	100.40	85.84%	7.23	1.95	9.18	47.85	869.31	2.79E-06	91.44	79.99%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 0° (Data 3)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	0.00	1.95	1.95	3.70	870.98	2.78E-06	0.00	0.00%	4.63	1.95	6.58	11.19	836.23	2.77E-06	0.00	0.00%
1	6.08	1.95	8.03	-16.88	859.40	2.78E-06	29.91	26.46%	5.38	1.95	7.33	-11.74	836.23	2.78E-06	41.18	37.45%
2	6.36	1.95	8.31	-32.06	866.35	2.79E-06	50.49	44.32%	5.81	1.95	7.76	-11.28	836.23	2.78E-06	65.42	59.49%
3	6.55	1.95	8.50	-32.80	870.98	2.78E-06	60.34	52.69%	6.10	1.95	8.05	-10.50	836.23	2.78E-06	73.30	66.66%
4	6.68	1.95	8.63	-25.14	873.30	2.76E-06	65.02	56.62%	6.27	1.95	8.22	-12.41	836.23	2.78E-06	74.98	68.19%
5	6.78	1.95	8.73	-14.99	875.61	2.78E-06	68.98	59.91%	6.39	1.95	8.34	-18.05	845.50	2.82E-06	77.45	69.66%
6	6.87	1.95	8.82	-21.76	873.30	2.78E-06	72.94	63.51%	6.50	1.95	8.45	-21.27	845.50	2.76E-06	77.33	69.56%
7	6.96	1.95	8.91	-35.82	880.25	2.78E-06	74.97	64.77%	6.56	1.95	8.51	-15.90	845.50	2.78E-06	80.28	72.20%
8	7.01	1.95	8.96	-31.57	880.25	2.77E-06	77.55	67.00%	6.63	1.95	8.58	-17.75	845.50	2.78E-06	81.73	73.51%
9	7.07	1.95	9.02	-34.50	882.56	2.77E-06	79.80	68.76%	6.67	1.95	8.62	-10.52	847.82	2.78E-06	82.85	74.32%
10	7.11	1.95	9.06	-29.24	887.19	2.80E-06	83.00	71.15%	6.71	1.95	8.66	-16.67	847.82	2.77E-06	83.17	74.60%
11	7.13	1.95	9.08	-24.80	889.51	2.78E-06	83.96	71.78%	6.74	1.95	8.69	-16.30	850.13	2.78E-06	84.78	75.84%
12	7.16	1.95	9.11	-17.15	889.51	2.76E-06	85.71	73.27%	6.78	1.95	8.73	-19.89	852.45	2.78E-06	85.10	75.91%
13	7.21	1.95	9.16	-37.87	889.51	2.78E-06	88.46	75.63%	6.81	1.95	8.76	-18.64	850.13	2.79E-06	86.72	77.58%
14	7.24	1.95	9.18	-30.66	889.51	2.78E-06	89.02	76.11%	6.82	1.95	8.77	-13.85	850.13	2.78E-06	87.34	78.13%
15	7.26	1.95	9.21	-36.29	889.51	2.78E-06	89.84	76.81%	6.85	1.95	8.80	-15.23	850.13	2.79E-06	88.42	79.09%

16	7.26	1.95	9.21	-21.11	889.51	2.78E-06	92.10	78.74%	6.86	1.95	8.81	-13.51	852.45	2.78E-06	87.03	77.64%
17	7.28	1.95	9.23	-22.55	889.51	2.78E-06	92.95	79.47%	6.88	1.95	8.83	-18.41	850.13	2.78E-06	88.46	79.13%
18	7.30	1.95	9.25	-23.53	889.51	2.76E-06	92.96	79.48%	6.89	1.95	8.84	-17.57	852.45	2.79E-06	88.98	79.38%
19	7.32	1.95	9.27	-31.48	889.51	2.78E-06	95.48	81.62%	6.90	1.95	8.85	-10.98	845.50	2.80E-06	88.66	79.75%
20	7.34	1.95	9.29	-36.69	889.51	2.78E-06	94.91	81.14%	6.91	1.95	8.86	-14.99	852.45	2.78E-06	88.71	79.14%
21	7.35	1.95	9.30	-33.50	889.51	2.78E-06	95.18	81.38%	6.92	1.95	8.87	-15.47	852.45	2.81E-06	90.06	80.34%
22	7.36	1.95	9.31	-33.09	889.51	2.77E-06	94.90	81.14%	6.92	1.95	8.87	-5.27	852.45	2.78E-06	90.40	80.65%
23	7.34	1.95	9.29	-7.96	889.51	2.78E-06	96.59	82.57%	6.94	1.95	8.89	-15.96	852.45	2.78E-06	89.83	80.14%
24	7.35	1.95	9.30	-12.64	889.51	2.78E-06	96.86	82.81%	6.94	1.95	8.89	-11.09	852.45	2.78E-06	90.40	80.64%
25	7.39	1.95	9.33	-36.98	891.83	2.75E-06	96.56	82.34%	6.95	1.95	8.90	-9.34	857.08	2.79E-06	90.66	80.44%
26	7.40	1.95	9.35	-37.05	889.51	2.77E-06	97.69	83.52%	6.95	1.95	8.90	-12.04	868.66	2.79E-06	91.79	80.35%
27	7.39	1.95	9.33	-17.89	889.51	2.78E-06	97.70	83.53%	6.97	1.95	8.92	-9.40	870.98	2.82E-06	92.58	80.84%
28	7.39	1.95	9.34	-20.73	889.51	2.79E-06	98.55	84.25%	6.97	1.95	8.92	-9.43	868.66	2.78E-06	91.51	80.11%
29	7.38	1.95	9.32	3.07	891.83	2.76E-06	97.95	83.53%	6.98	1.95	8.93	-8.56	868.66	2.78E-06	92.64	81.10%
30	7.39	1.95	9.34	-10.02	894.14	2.78E-06	99.94	85.00%	6.99	1.95	8.94	-13.04	870.98	2.80E-06	93.18	81.35%
31	7.42	1.95	9.37	-27.42	891.83	2.75E-06	98.77	84.22%	6.98	1.95	8.93	1.67	870.98	2.78E-06	91.23	79.66%
32	7.42	1.95	9.37	-25.12	889.51	2.78E-06	99.64	85.19%	7.00	1.95	8.95	-11.30	870.98	2.76E-06	91.82	80.17%
33	7.43	1.95	9.38	-23.28	891.83	2.77E-06	99.34	84.71%	7.01	1.95	8.96	-16.27	870.98	2.79E-06	92.33	80.61%

34	7.42	1.95	9.37	-11.58	891.83	2.76E-06	99.05	84.46%	7.02	1.95	8.97	-15.89	873.30	2.77E-06	90.96	79.20%
35	7.42	1.95	9.37	-11.12	889.51	2.78E-06	100.49	85.91%	7.03	1.95	8.98	-14.59	870.98	2.78E-06	92.05	80.37%
36	7.43	1.95	9.38	-18.63	891.83	2.81E-06	101.37	86.44%	7.05	1.95	9.00	-19.13	870.98	2.79E-06	92.88	81.10%
37	7.44	1.95	9.38	-19.15	891.83	2.80E-06	100.50	85.70%	7.05	1.95	9.00	-10.62	870.98	2.79E-06	91.74	80.10%
38	7.44	1.95	9.39	-13.54	889.51	2.78E-06	99.91	85.42%	7.05	1.95	9.00	-14.25	870.98	2.80E-06	92.58	80.83%
39	7.45	1.95	9.40	-19.71	894.14	2.78E-06	101.03	85.93%	7.07	1.95	9.02	-25.12	868.66	2.79E-06	92.30	80.81%
40	7.45	1.95	9.40	-11.75	894.14	2.78E-06	100.73	85.67%	7.07	1.95	9.02	-15.21	870.98	2.78E-06	92.59	80.85%
41	7.46	1.95	9.41	-17.43	894.14	2.81E-06	101.91	86.68%	7.07	1.95	9.02	-8.48	873.30	2.80E-06	92.56	80.61%
42	7.44	1.95	9.39	1.84	894.14	2.81E-06	101.91	86.67%	7.08	1.95	9.03	-17.99	875.61	2.78E-06	92.88	80.67%
43	7.43	1.95	9.38	12.16	894.14	2.76E-06	101.81	86.59%	7.09	1.95	9.04	-23.45	870.98	2.79E-06	92.85	81.07%
44	7.46	1.95	9.41	-8.52	887.19	2.76E-06	101.81	87.27%	7.09	1.95	9.04	-15.33	870.98	2.79E-06	92.85	81.07%
45	7.46	1.95	9.41	-19.84	882.56	2.78E-06	101.84	87.75%	7.10	1.95	9.05	-18.55	873.30	2.79E-06	92.28	80.36%
46	7.46	1.95	9.41	-14.69	882.56	2.77E-06	101.54	87.49%	7.09	1.95	9.04	-7.25	870.98	2.79E-06	93.41	81.56%
47	7.45	1.95	9.40	-0.60	884.88	2.77E-06	101.53	87.26%	7.10	1.95	9.05	-13.61	873.30	2.79E-06	93.41	81.34%
48	7.44	1.95	9.39	3.61	880.25	2.76E-06	101.23	87.46%	7.10	1.95	9.05	-15.45	870.98	2.78E-06	93.13	81.31%
49	7.44	1.95	9.39	2.65	880.25	2.76E-06	101.23	87.46%	7.10	1.95	9.05	-16.37	868.66	2.79E-06	93.40	81.77%
50	7.45	1.95	9.40	-2.52	882.56	2.78E-06	102.12	88.00%	7.11	1.95	9.06	-13.68	870.98	2.80E-06	93.67	81.78%
51	7.44	1.95	9.39	4.51	882.56	2.78E-06	102.12	88.00%	7.11	1.95	9.06	-8.73	870.98	2.80E-06	93.10	81.28%

52	7.45	1.95	9.40	-11.03	882.56	2.78E-06	101.55	87.51%	7.10	1.95	9.05	-3.76	870.98	2.81E-06	93.36	81.52%
53	7.47	1.95	9.42	-11.55	884.88	2.78E-06	100.98	86.79%	7.10	1.95	9.05	-8.28	868.66	2.78E-06	93.12	81.52%
54	7.46	1.95	9.41	-1.22	882.56	2.78E-06	101.25	87.24%	7.10	1.95	9.05	-5.15	868.66	2.79E-06	92.82	81.26%
55	7.46	1.95	9.41	1.58	880.25	2.77E-06	100.95	87.21%	7.11	1.95	9.06	-13.77	870.98	2.82E-06	94.20	82.25%
56	7.45	1.95	9.39	11.89	882.56	2.78E-06	101.54	87.49%	7.11	1.95	9.06	-3.38	870.98	2.78E-06	92.83	81.05%
57	7.45	1.95	9.40	2.48	882.56	2.77E-06	100.94	86.98%	7.12	1.95	9.07	-5.22	868.66	2.79E-06	93.37	81.74%
58	7.44	1.95	9.39	17.02	880.25	2.76E-06	101.20	87.43%	7.11	1.95	9.06	2.01	868.66	2.79E-06	92.81	81.25%
59	7.44	1.95	9.39	16.53	880.25	2.77E-06	101.50	87.68%	7.11	1.95	9.06	-0.27	868.66	2.80E-06	93.64	81.98%
60	7.45	1.95	9.40	5.25	882.56	2.78E-06	102.65	88.45%	7.11	1.95	9.06	1.52	870.98	2.80E-06	93.64	81.76%
61	7.45	1.95	9.40	6.17	884.88	2.77E-06	101.49	87.22%	7.11	1.95	9.06	-0.75	868.66	2.80E-06	93.63	81.97%
62	7.47	1.95	9.42	6.14	884.88	2.78E-06	100.66	86.50%	7.11	1.95	9.06	1.48	868.66	2.77E-06	91.98	80.52%
63	7.46	1.95	9.41	18.82	884.88	2.78E-06	101.78	87.47%	7.12	1.95	9.07	-4.89	868.66	2.78E-06	92.52	80.99%
64	7.46	1.95	9.41	8.46	880.25	2.78E-06	101.77	87.92%	7.12	1.95	9.07	-2.17	868.66	2.77E-06	93.10	81.50%
65	7.46	1.95	9.41	8.91	884.88	2.77E-06	101.47	87.21%	7.13	1.95	9.08	-2.19	868.66	2.80E-06	93.62	81.96%
66	7.45	1.95	9.40	24.86	887.19	2.77E-06	101.47	86.98%	7.12	1.95	9.07	10.49	868.66	2.80E-06	93.05	81.46%
67	7.48	1.95	9.42	2.29	887.19	2.76E-06	100.61	86.24%	7.13	1.95	9.08	5.03	864.03	2.81E-06	93.32	82.14%
68	7.49	1.95	9.43	0.86	884.88	2.79E-06	102.36	87.97%	7.14	1.95	9.09	-2.23	868.66	2.80E-06	93.62	81.96%
69	7.48	1.95	9.43	6.48	887.19	2.78E-06	100.63	86.26%	7.13	1.95	9.08	4.10	866.35	2.78E-06	93.07	81.69%

70	7.48	1.95	9.42	13.99	884.88	2.78E-06	100.36	86.25%	7.14	1.95	9.09	8.16	868.66	2.79E-06	93.33	81.71%
71	7.47	1.95	9.42	24.79	887.19	2.78E-06	101.19	86.73%	7.13	1.95	9.08	9.05	870.98	2.79E-06	92.77	81.00%
72	7.47	1.95	9.42	24.79	884.88	2.78E-06	102.87	88.41%	7.13	1.95	9.08	8.58	864.03	2.80E-06	93.03	81.88%
73	7.48	1.95	9.43	12.09	887.19	2.77E-06	102.57	87.92%	7.13	1.95	9.08	4.02	866.35	2.80E-06	92.46	81.16%
74	7.49	1.95	9.44	9.71	887.19	2.77E-06	100.88	86.47%	7.13	1.95	9.08	11.72	864.03	2.80E-06	93.03	81.88%
75	7.49	1.95	9.44	12.52	884.88	2.77E-06	101.44	87.18%	7.14	1.95	9.09	3.98	866.35	2.78E-06	92.21	80.94%
76	7.50	1.95	9.45	7.78	887.19	2.75E-06	100.84	86.44%	7.14	1.95	9.09	8.04	866.35	2.79E-06	91.62	80.42%
77	7.48	1.95	9.43	26.15	889.51	2.78E-06	102.03	87.23%	7.13	1.95	9.08	12.58	866.35	2.78E-06	92.48	81.18%
78	7.48	1.95	9.43	32.26	884.88	2.77E-06	101.99	87.65%	7.13	1.95	9.08	13.01	864.03	2.79E-06	92.75	81.63%
79	7.51	1.95	9.45	8.71	887.19	2.76E-06	102.25	87.64%	7.13	1.95	9.08	10.29	864.03	2.81E-06	93.29	82.11%
80	7.50	1.95	9.45	15.79	887.19	2.75E-06	101.94	87.38%	7.13	1.95	9.08	7.10	866.35	2.79E-06	92.74	81.41%
81	7.51	1.95	9.46	7.72	889.51	2.78E-06	102.28	87.44%	7.13	1.95	9.08	9.79	868.66	2.79E-06	92.17	80.69%
82	7.52	1.95	9.46	12.44	887.19	2.76E-06	102.24	87.63%	7.14	1.95	9.09	11.12	866.35	2.78E-06	91.34	80.17%
83	7.51	1.95	9.46	16.18	889.51	2.77E-06	100.85	86.22%	7.15	1.95	9.10	12.04	870.98	2.76E-06	91.65	80.02%
84	7.51	1.95	9.46	25.14	884.88	2.78E-06	101.44	87.18%	7.14	1.95	9.09	15.68	868.66	2.78E-06	94.15	82.42%
85	7.50	1.95	9.45	28.41	887.19	2.77E-06	100.85	86.44%	7.14	1.95	9.09	20.20	870.98	2.78E-06	93.02	81.22%
86	7.50	1.95	9.45	28.88	889.51	2.76E-06	101.11	86.44%	7.15	1.95	9.10	14.73	868.66	2.78E-06	92.19	80.70%
87	7.51	1.95	9.46	22.28	889.51	2.79E-06	101.17	86.49%	7.15	1.95	9.10	12.89	870.98	2.78E-06	93.02	81.21%

88	7.49	1.95	9.44	35.45	887.19	2.79E-06	102.30	87.68%	7.15	1.95	9.10	12.87	866.35	2.78E-06	92.45	81.15%
89	7.51	1.95	9.46	26.97	884.88	2.79E-06	101.73	87.42%	7.15	1.95	9.10	11.96	870.98	2.81E-06	93.83	81.92%
90	7.51	1.95	9.46	25.99	887.19	2.78E-06	100.30	85.97%	7.16	1.95	9.11	13.33	868.66	2.77E-06	93.03	81.44%
91	7.51	1.95	9.46	29.77	887.19	2.78E-06	101.99	87.42%	7.15	1.95	9.10	25.12	870.98	2.79E-06	92.71	80.95%
92	7.51	1.95	9.46	28.34	884.88	2.77E-06	101.39	87.13%	7.16	1.95	9.11	20.57	870.98	2.80E-06	92.41	80.69%
93	7.51	1.95	9.46	25.50	887.19	2.76E-06	101.09	86.65%	7.16	1.95	9.11	21.47	868.66	2.79E-06	92.14	80.67%
94	7.51	1.95	9.46	30.20	884.88	2.74E-06	101.04	86.84%	7.16	1.95	9.11	26.01	870.98	2.78E-06	91.87	80.22%
95	7.52	1.95	9.47	20.74	887.19	2.77E-06	101.38	86.90%	7.16	1.95	9.11	18.27	870.98	2.79E-06	92.70	80.94%
96	7.52	1.95	9.47	28.75	887.19	2.76E-06	100.52	86.16%	7.16	1.95	9.11	23.74	870.98	2.79E-06	93.27	81.44%
97	7.52	1.95	9.47	31.11	887.19	2.79E-06	100.57	86.21%	7.16	1.95	9.11	25.06	868.66	2.80E-06	92.97	81.39%
98	7.50	1.95	9.45	43.32	884.88	2.78E-06	101.41	87.15%	7.17	1.95	9.12	24.59	870.98	2.80E-06	91.83	80.18%
99	7.51	1.95	9.46	34.39	887.19	2.77E-06	100.81	86.41%	7.18	1.95	9.13	15.04	870.98	2.80E-06	91.26	79.68%
100	7.51	1.95	9.46	35.79	884.88	2.77E-06	101.93	87.60%	7.16	1.95	9.11	26.41	870.98	2.80E-06	92.40	80.68%
101	7.52	1.95	9.47	21.15	887.19	2.82E-06	103.16	88.42%	7.16	1.95	9.11	22.75	870.98	2.79E-06	91.56	79.94%
102	7.53	1.95	9.48	21.61	889.51	2.78E-06	100.27	85.72%	7.17	1.95	9.12	24.57	870.98	2.82E-06	92.93	81.14%
103	7.53	1.95	9.47	31.05	889.51	2.78E-06	100.83	86.20%	7.17	1.95	9.12	28.65	873.30	2.79E-06	92.12	80.22%
104	7.52	1.95	9.47	36.70	889.51	2.78E-06	101.39	86.68%	7.17	1.95	9.12	26.81	873.30	2.79E-06	92.12	80.22%
105	7.53	1.95	9.48	36.23	887.19	2.76E-06	100.50	86.14%	7.17	1.95	9.12	30.45	870.98	2.80E-06	91.25	79.67%

106	7.52	1.95	9.47	40.01	889.51	2.77E-06	101.35	86.65%	7.18	1.95	9.13	26.35	873.30	2.81E-06	92.08	80.19%
107	7.53	1.95	9.48	28.17	887.19	2.76E-06	101.05	86.62%	7.17	1.95	9.12	24.51	870.98	2.78E-06	91.84	80.19%
108	7.52	1.95	9.47	38.09	889.51	2.76E-06	101.61	86.87%	7.18	1.95	9.13	24.52	873.30	2.79E-06	92.68	80.70%
109	7.53	1.95	9.48	36.20	889.51	2.78E-06	101.64	86.90%	7.17	1.95	9.12	28.14	870.98	2.79E-06	91.54	79.93%
110	7.53	1.95	9.48	42.82	889.51	2.76E-06	101.04	86.38%	7.18	1.95	9.13	30.87	873.30	2.79E-06	92.11	80.21%
111	7.54	1.95	9.49	37.14	889.51	2.78E-06	101.07	86.41%	7.18	1.95	9.13	34.98	873.30	2.79E-06	92.10	80.20%
112	7.53	1.95	9.48	44.68	887.19	2.76E-06	101.04	86.61%	7.18	1.95	9.13	37.68	875.61	2.79E-06	91.54	79.50%
113	7.53	1.95	9.48	43.73	887.19	2.82E-06	102.28	87.67%	7.17	1.95	9.12	39.96	870.98	2.80E-06	92.37	80.65%
114	7.54	1.95	9.49	36.17	889.51	2.78E-06	100.80	86.18%	7.17	1.95	9.12	33.54	859.40	2.78E-06	91.27	80.76%
115	7.55	1.95	9.50	30.97	887.19	2.77E-06	100.21	85.90%	7.18	1.95	9.13	33.56	861.71	2.79E-06	92.10	81.28%
116	7.55	1.95	9.50	29.06	887.19	2.76E-06	100.47	86.12%	7.18	1.95	9.13	27.15	861.71	2.79E-06	90.40	79.78%
117	7.56	1.95	9.50	28.09	889.51	2.77E-06	100.76	86.15%	7.18	1.95	9.13	27.14	861.71	2.81E-06	91.49	80.74%
118	7.54	1.95	9.49	42.30	884.88	2.79E-06	101.65	87.36%	7.17	1.95	9.12	38.97	859.40	2.80E-06	91.79	81.23%
119	7.54	1.95	9.49	49.37	889.51	2.78E-06	101.62	86.88%	7.18	1.95	9.13	31.70	861.71	2.78E-06	91.26	80.54%
120	7.54	1.95	9.49	41.79	884.88	2.78E-06	101.62	87.33%	7.17	1.95	9.12	43.93	861.71	2.78E-06	90.69	80.04%
121	7.54	1.95	9.48	49.34	884.88	2.77E-06	100.76	86.59%	7.17	1.95	9.12	38.03	864.03	2.78E-06	90.43	79.59%
122	7.55	1.95	9.50	32.31	884.88	2.77E-06	100.75	86.59%	7.18	1.95	9.13	37.58	859.40	2.78E-06	90.42	80.02%
123	7.55	1.95	9.50	37.03	884.88	2.78E-06	100.78	86.61%	7.17	1.95	9.12	41.64	864.03	2.79E-06	90.95	80.05%

124	7.56	1.95	9.51	31.35	882.56	2.76E-06	99.90	86.08%	7.16	1.95	9.11	47.97	861.71	2.78E-06	90.42	79.80%
125	7.55	1.95	9.50	34.65	884.88	2.76E-06	100.45	86.33%	7.17	1.95	9.12	34.35	859.40	2.79E-06	90.95	80.48%
126	7.54	1.95	9.49	44.57	880.25	2.77E-06	100.75	87.04%	7.18	1.95	9.13	37.54	861.71	2.78E-06	90.69	80.03%
127	7.54	1.95	9.48	48.33	882.56	2.78E-06	101.34	87.32%	7.17	1.95	9.12	41.60	859.40	2.78E-06	89.85	79.51%
128	7.56	1.95	9.50	32.74	884.88	2.77E-06	100.74	86.58%	7.18	1.95	9.13	35.70	861.71	2.81E-06	90.91	80.23%
129	7.55	1.95	9.50	39.35	880.25	2.78E-06	99.91	86.32%	7.19	1.95	9.14	35.26	864.03	2.79E-06	90.38	79.55%
130	7.56	1.95	9.51	32.71	880.25	2.78E-06	99.91	86.32%	7.19	1.95	9.14	37.99	861.71	2.79E-06	90.94	80.26%
131	7.56	1.95	9.51	41.72	880.25	2.77E-06	100.18	86.54%	7.19	1.95	9.14	42.10	859.40	2.78E-06	90.41	80.00%
132	7.54	1.95	9.49	53.04	882.56	2.79E-06	101.06	87.08%	7.20	1.95	9.15	35.26	859.40	2.78E-06	91.24	80.73%
133	7.55	1.95	9.49	45.93	877.93	2.78E-06	100.76	87.28%	7.20	1.95	9.15	34.35	859.40	2.80E-06	91.20	80.70%
134	7.54	1.95	9.49	50.17	882.56	2.78E-06	100.20	86.34%	7.19	1.95	9.14	50.27	861.71	2.79E-06	90.37	79.75%
135	7.56	1.95	9.50	43.10	882.56	2.78E-06	100.76	86.82%	7.19	1.95	9.14	44.33	861.71	2.78E-06	89.84	79.29%
136	7.56	1.95	9.51	44.54	880.25	2.78E-06	99.90	86.31%	7.19	1.95	9.14	41.13	861.71	2.79E-06	89.81	79.25%
137	7.55	1.95	9.50	49.69	880.25	2.78E-06	99.63	86.07%	7.19	1.95	9.14	40.67	861.71	2.80E-06	91.20	80.48%
138	7.56	1.95	9.51	50.22	882.56	2.78E-06	99.33	85.59%	7.19	1.95	9.14	43.86	861.71	2.78E-06	89.54	79.02%
139	7.55	1.95	9.50	67.23	880.25	2.76E-06	99.31	85.80%	7.20	1.95	9.15	33.83	861.71	2.78E-06	89.84	79.28%
140	7.55	1.95	9.50	53.95	880.25	2.78E-06	100.46	86.79%	7.20	1.95	9.15	40.21	864.03	2.80E-06	90.06	79.26%
141	7.55	1.95	9.50	54.90	877.93	2.77E-06	100.16	86.76%	7.19	1.95	9.14	43.39	861.71	2.80E-06	91.19	80.48%

142	7.57	1.95	9.51	40.71	882.56	2.76E-06	100.42	86.53%	7.19	1.95	9.14	42.02	866.35	2.81E-06	90.89	79.78%
143	7.57	1.95	9.51	44.49	880.25	2.77E-06	100.71	87.01%	7.19	1.95	9.14	51.12	864.03	2.78E-06	90.39	79.56%
144	7.56	1.95	9.51	51.56	880.25	2.77E-06	99.59	86.04%	7.19	1.95	9.14	48.82	864.03	2.79E-06	90.36	79.53%
145	7.56	1.95	9.50	60.56	882.56	2.77E-06	99.03	85.33%	7.19	1.95	9.14	51.56	866.35	2.79E-06	90.35	79.31%
146	7.56	1.95	9.51	49.68	877.93	2.76E-06	99.86	86.50%	7.20	1.95	9.15	42.90	864.03	2.78E-06	90.39	79.55%
147	7.55	1.95	9.50	56.74	877.93	2.78E-06	100.44	87.01%	7.19	1.95	9.14	45.17	861.71	2.78E-06	90.09	79.50%
148	7.55	1.95	9.50	57.69	880.25	2.78E-06	99.88	86.29%	7.20	1.95	9.15	39.25	866.35	2.80E-06	91.18	80.03%
149	7.56	1.95	9.51	51.55	884.88	2.78E-06	100.73	86.57%	7.20	1.95	9.15	44.27	866.35	2.77E-06	89.56	78.61%
150	7.58	1.95	9.53	41.14	880.25	2.78E-06	99.61	86.05%	7.20	1.95	9.15	47.45	861.71	2.81E-06	90.87	80.20%
151	7.57	1.95	9.52	45.40	880.25	2.78E-06	99.61	86.05%	7.19	1.95	9.14	48.32	861.71	2.81E-06	89.74	79.19%
152	7.57	1.95	9.52	52.50	880.25	2.78E-06	99.31	85.80%	7.19	1.95	9.14	46.95	864.03	2.79E-06	89.78	79.02%
153	7.55	1.95	9.50	63.81	880.25	2.78E-06	99.87	86.28%	7.20	1.95	9.15	43.75	864.03	2.79E-06	89.78	79.02%
154	7.55	1.95	9.50	61.92	880.25	2.79E-06	100.46	86.79%	7.19	1.95	9.14	52.40	861.71	2.79E-06	89.21	78.73%
155	7.55	1.95	9.50	64.26	880.25	2.78E-06	100.43	86.77%	7.20	1.95	9.15	49.22	864.03	2.79E-06	89.77	79.01%
156	7.57	1.95	9.52	51.51	880.25	2.78E-06	99.87	86.28%	7.20	1.95	9.15	46.03	864.03	2.78E-06	89.25	78.55%
157	7.56	1.95	9.51	63.34	880.25	2.75E-06	98.99	85.52%	7.20	1.95	9.15	48.77	864.03	2.78E-06	90.07	79.28%
158	7.57	1.95	9.52	52.91	880.25	2.79E-06	99.32	85.81%	7.19	1.95	9.14	57.89	861.71	2.79E-06	90.34	79.72%
159	7.56	1.95	9.51	61.44	880.25	2.78E-06	99.59	86.04%	7.19	1.95	9.14	58.75	864.03	2.78E-06	89.81	79.05%

160	7.54	1.95	9.49	77.44	880.25	2.79E-06	100.45	86.78%	7.21	1.95	9.16	45.59	866.35	2.78E-06	89.51	78.57%
161	7.55	1.95	9.50	68.01	880.25	2.78E-06	100.16	86.53%	7.20	1.95	9.15	50.59	861.71	2.79E-06	90.33	79.72%
162	7.57	1.95	9.51	50.05	880.25	2.77E-06	99.57	86.02%	7.21	1.95	9.16	47.86	861.71	2.79E-06	89.20	78.72%
163	7.58	1.95	9.53	46.27	882.56	2.78E-06	100.15	86.30%	7.21	1.95	9.16	47.85	861.71	2.79E-06	89.20	78.72%
164	7.57	1.95	9.52	56.67	880.25	2.78E-06	99.30	85.78%	7.20	1.95	9.15	54.19	864.03	2.79E-06	89.20	78.51%
165	7.56	1.95	9.51	66.13	880.25	2.78E-06	100.15	86.52%	7.19	1.95	9.14	56.90	866.35	2.80E-06	90.59	79.52%
166	7.56	1.95	9.51	69.45	880.25	2.79E-06	99.88	86.29%	7.20	1.95	9.15	49.18	866.35	2.78E-06	89.24	78.33%
167	7.55	1.95	9.50	72.72	880.25	2.78E-06	99.58	86.03%	7.21	1.95	9.16	43.28	861.71	2.78E-06	89.50	78.98%
168	7.55	1.95	9.50	69.39	882.56	2.78E-06	99.29	85.56%	7.21	1.95	9.16	44.18	864.03	2.78E-06	88.94	78.28%
169	7.55	1.95	9.50	65.12	880.25	2.78E-06	99.29	85.78%	7.21	1.95	9.16	54.65	861.71	2.78E-06	89.50	78.98%
170	7.57	1.95	9.52	56.19	882.56	2.77E-06	99.56	85.78%	7.20	1.95	9.15	48.66	866.35	2.81E-06	90.28	79.25%
171	7.57	1.95	9.51	62.79	880.25	2.76E-06	99.26	85.75%	7.20	1.95	9.15	54.61	864.03	2.82E-06	90.54	79.69%
172	7.57	1.95	9.51	61.36	880.25	2.78E-06	99.58	86.03%	7.20	1.95	9.15	58.30	866.35	2.81E-06	89.71	78.75%
173	7.58	1.95	9.53	50.00	880.25	2.79E-06	99.30	85.79%	7.21	1.95	9.16	45.52	861.71	2.79E-06	89.19	78.71%
174	7.56	1.95	9.51	64.19	880.25	2.77E-06	98.44	85.04%	7.20	1.95	9.15	64.18	861.71	2.78E-06	88.67	78.25%
175	7.56	1.95	9.51	68.45	882.56	2.78E-06	98.45	84.83%	7.20	1.95	9.15	54.61	866.35	2.80E-06	89.45	78.52%
176	7.56	1.95	9.51	63.23	882.56	2.78E-06	99.28	85.55%	7.20	1.95	9.15	60.54	866.35	2.80E-06	89.45	78.52%
177	7.57	1.95	9.52	61.35	882.56	2.78E-06	99.01	85.31%	7.20	1.95	9.15	56.42	868.66	2.80E-06	89.45	78.31%

178	7.58	1.95	9.52	63.28	880.25	2.78E-06	98.16	84.80%	7.21	1.95	9.16	53.25	866.35	2.79E-06	89.19	78.29%
179	7.57	1.95	9.52	68.95	882.56	2.78E-06	98.72	85.06%	7.21	1.95	9.16	54.14	866.35	2.80E-06	88.88	78.02%
180	7.57	1.95	9.52	66.57	880.25	2.77E-06	98.99	85.52%	7.20	1.95	9.15	62.33	866.35	2.79E-06	89.75	78.78%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 10° (Data 1)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	6.53	1.95	8.48	11.00	840.87	2.78E-06	0.00	0.00%	4.63	1.95	6.58	10.53	831.60	2.78E-06	0.00	0.00%
1	6.13	1.95	8.08	-23.08	840.87	2.78E-06	32.16	29.09%	6.20	1.95	8.15	-24.48	843.18	2.81E-06	42.24	38.09%
2	6.37	1.95	8.32	-15.87	845.50	2.79E-06	52.76	47.46%	7.11	1.95	9.06	-23.63	847.82	2.79E-06	66.36	59.53%
3	6.54	1.95	8.49	-24.27	882.56	2.78E-06	62.59	53.94%	5.90	1.95	7.85	-13.43	850.13	2.79E-06	73.72	65.95%
4	6.67	1.95	8.62	-30.26	822.33	2.84E-06	67.52	62.44%	6.21	1.95	8.16	-19.29	854.76	2.79E-06	75.99	67.60%
5	6.77	1.95	8.72	-34.15	854.76	2.79E-06	69.19	61.55%	6.38	1.95	8.33	-27.64	857.08	2.81E-06	77.56	68.82%
6	6.85	1.95	8.79	-33.61	854.76	2.82E-06	72.64	64.63%	6.51	1.95	8.46	-30.22	859.40	2.82E-06	78.93	69.84%
7	6.91	1.95	8.86	-29.00	859.40	2.80E-06	75.63	66.92%	6.60	1.95	8.55	-25.01	859.40	2.81E-06	79.83	70.64%
8	6.97	1.95	8.92	-30.99	861.71	2.79E-06	77.67	68.55%	6.66	1.95	8.61	-13.57	859.40	2.79E-06	82.20	72.74%
9	7.01	1.95	8.95	-26.20	859.40	2.80E-06	80.17	70.94%	6.72	1.95	8.67	-13.25	864.03	2.78E-06	83.65	73.62%
10	7.05	1.95	9.00	-29.96	859.40	2.80E-06	81.30	71.94%	6.77	1.95	8.72	-25.54	861.71	2.78E-06	84.78	74.82%
11	7.08	1.95	9.03	-33.70	861.71	2.79E-06	82.76	73.04%	6.83	1.95	8.78	-34.51	866.35	2.77E-06	84.84	74.47%
12	7.11	1.95	9.06	-30.21	861.71	2.79E-06	84.45	74.53%	6.85	1.95	8.80	-28.48	866.35	2.78E-06	85.65	75.18%
13	7.14	1.95	9.09	-30.30	864.03	2.78E-06	86.47	76.10%	6.89	1.95	8.84	-24.19	866.35	2.77E-06	86.51	75.94%
14	7.16	1.95	9.11	-32.21	861.71	2.80E-06	88.10	77.75%	6.91	1.95	8.86	-20.73	868.66	2.78E-06	87.89	76.94%
15	7.19	1.95	9.13	-34.16	864.03	2.81E-06	87.78	77.26%	6.92	1.95	8.87	-11.89	868.66	2.78E-06	88.45	77.44%

16	7.20	1.95	9.15	-31.96	864.03	2.79E-06	88.40	77.81%	6.94	1.95	8.89	-21.72	870.98	2.77E-06	88.19	77.00%
17	7.22	1.95	9.16	-32.02	864.03	2.82E-06	90.58	79.72%	6.99	1.95	8.94	-37.93	870.98	2.78E-06	89.01	77.72%
18	7.23	1.95	9.18	-28.86	864.03	2.80E-06	90.93	80.03%	7.00	1.95	8.95	-37.12	870.98	2.77E-06	89.31	77.98%
19	7.24	1.95	9.19	-32.13	864.03	2.80E-06	92.06	81.03%	7.01	1.95	8.96	-27.78	870.98	2.79E-06	90.09	78.66%
20	7.26	1.95	9.21	-26.69	880.25	2.80E-06	92.62	80.02%	7.00	1.95	8.95	-8.98	870.98	2.78E-06	89.82	78.43%
21	7.27	1.95	9.22	-25.37	877.93	2.82E-06	93.73	81.19%	7.02	1.95	8.97	-19.76	870.98	2.78E-06	90.95	79.41%
22	7.28	1.95	9.23	-27.25	877.93	2.81E-06	94.59	81.94%	7.04	1.95	8.99	-27.02	870.98	2.79E-06	91.21	79.64%
23	7.30	1.95	9.25	-36.59	880.25	2.82E-06	94.86	81.96%	7.05	1.95	9.00	-27.52	870.98	2.78E-06	90.11	78.68%
24	7.29	1.95	9.24	-20.87	877.93	2.82E-06	94.86	82.17%	7.07	1.95	9.02	-36.64	870.98	2.78E-06	90.94	79.40%
25	7.32	1.95	9.26	-32.05	875.61	2.78E-06	94.89	82.41%	7.06	1.95	9.01	-16.80	870.98	2.79E-06	90.64	79.14%
26	7.32	1.95	9.27	-33.97	877.93	2.79E-06	95.16	82.43%	7.06	1.95	9.01	-13.21	870.98	2.79E-06	91.20	79.63%
27	7.34	1.95	9.28	-33.11	877.93	2.79E-06	95.16	82.43%	7.07	1.95	9.02	-19.54	870.98	2.77E-06	90.96	79.42%
28	7.33	1.95	9.28	-30.33	877.93	2.79E-06	95.72	82.91%	7.07	1.95	9.02	-7.39	873.30	2.77E-06	90.96	79.21%
29	7.35	1.95	9.30	-35.99	880.25	2.81E-06	96.84	83.67%	7.09	1.95	9.04	-17.37	873.30	2.77E-06	90.39	78.72%
30	7.34	1.95	9.29	-28.07	875.61	2.81E-06	96.84	84.11%	7.10	1.95	9.05	-27.37	873.30	2.77E-06	90.95	79.20%
31	7.34	1.95	9.29	-19.25	877.93	2.82E-06	97.69	84.62%	7.09	1.95	9.04	-11.56	873.30	2.78E-06	90.35	78.68%
32	7.34	1.95	9.29	-14.18	877.93	2.82E-06	97.11	84.12%	7.09	1.95	9.04	-6.15	870.98	2.78E-06	90.65	79.15%
33	7.36	1.95	9.31	-29.61	877.93	2.82E-06	97.39	84.36%	7.09	1.95	9.04	-5.71	873.30	2.77E-06	90.38	78.70%

34	7.37	1.95	9.32	-24.99	875.61	2.83E-06	97.67	84.82%	7.09	1.95	9.04	1.97	870.98	2.78E-06	91.47	79.87%
35	7.36	1.95	9.31	-15.68	875.61	2.82E-06	96.81	84.08%	7.11	1.95	9.06	-18.42	873.30	2.78E-06	92.04	80.14%
36	7.36	1.95	9.31	-17.57	875.61	2.80E-06	97.10	84.34%	7.11	1.95	9.06	-19.83	873.30	2.78E-06	91.20	79.42%
37	7.37	1.95	9.32	-17.58	875.61	2.82E-06	98.24	85.32%	7.12	1.95	9.07	-19.89	873.30	2.78E-06	90.33	78.66%
38	7.38	1.95	9.32	-20.89	877.93	2.80E-06	97.10	84.11%	7.12	1.95	9.07	-14.91	873.30	2.78E-06	92.02	80.13%
39	7.37	1.95	9.32	-19.50	875.61	2.78E-06	97.10	84.33%	7.12	1.95	9.07	-12.67	873.30	2.78E-06	91.19	79.40%
40	7.38	1.95	9.33	-29.36	875.61	2.80E-06	98.23	85.31%	7.12	1.95	9.07	-6.31	873.30	2.78E-06	92.58	80.62%
41	7.38	1.95	9.32	-15.39	877.93	2.79E-06	96.80	83.85%	7.13	1.95	9.08	-12.70	870.98	2.78E-06	91.18	79.61%
42	7.37	1.95	9.32	-12.13	875.61	2.78E-06	97.08	84.32%	7.13	1.95	9.08	-11.82	873.30	2.79E-06	91.71	79.86%
43	7.38	1.95	9.33	-17.74	877.93	2.79E-06	98.50	85.32%	7.13	1.95	9.08	-6.39	870.98	2.78E-06	91.44	79.84%
44	7.39	1.95	9.34	-21.52	870.98	2.79E-06	98.49	86.00%	7.14	1.95	9.09	-10.52	873.30	2.78E-06	91.44	79.62%
45	7.38	1.95	9.33	-15.44	873.30	2.79E-06	97.93	85.27%	7.14	1.95	9.09	-7.35	873.30	2.77E-06	91.46	79.65%
46	7.39	1.95	9.34	-16.41	875.61	2.78E-06	97.64	84.80%	7.13	1.95	9.08	-1.91	870.98	2.77E-06	90.90	79.36%
47	7.40	1.95	9.35	-20.18	877.93	2.80E-06	98.20	85.06%	7.14	1.95	9.09	-12.83	870.98	2.78E-06	91.73	80.09%
48	7.39	1.95	9.34	-9.46	875.61	2.80E-06	97.63	84.79%	7.15	1.95	9.10	-8.32	870.98	2.79E-06	91.13	79.56%
49	7.39	1.95	9.34	-5.29	875.61	2.81E-06	97.34	84.54%	7.14	1.95	9.09	-2.44	870.98	2.76E-06	90.06	78.63%
50	7.41	1.95	9.35	-15.13	873.30	2.81E-06	97.91	85.26%	7.15	1.95	9.10	-12.02	870.98	2.78E-06	91.15	79.59%
51	7.41	1.95	9.35	-12.35	870.98	2.82E-06	98.19	85.73%	7.14	1.95	9.09	-2.91	870.98	2.78E-06	92.55	80.80%

52	7.39	1.95	9.34	-1.14	870.98	2.82E-06	98.18	85.73%	7.14	1.95	9.09	5.25	870.98	2.78E-06	91.42	79.82%
53	7.40	1.95	9.34	-5.36	875.61	2.79E-06	97.90	85.02%	7.13	1.95	9.08	13.40	870.98	2.78E-06	91.14	79.58%
54	7.41	1.95	9.35	-5.84	875.61	2.80E-06	98.75	85.76%	7.14	1.95	9.09	0.66	870.98	2.78E-06	90.85	79.32%
55	7.41	1.95	9.36	-11.97	877.93	2.80E-06	97.61	84.55%	7.16	1.95	9.11	-4.82	870.98	2.78E-06	90.58	79.08%
56	7.42	1.95	9.37	-11.99	875.61	2.81E-06	98.46	85.51%	7.16	1.95	9.11	-7.13	870.98	2.78E-06	90.27	78.82%
57	7.41	1.95	9.36	-8.26	870.98	2.82E-06	98.45	85.96%	7.14	1.95	9.09	11.51	870.98	2.78E-06	91.13	79.57%
58	7.40	1.95	9.35	1.07	875.61	2.81E-06	98.45	85.50%	7.14	1.95	9.09	16.50	870.98	2.78E-06	91.96	80.29%
59	7.41	1.95	9.36	-0.82	877.93	2.82E-06	99.02	85.77%	7.14	1.95	9.09	18.76	870.98	2.77E-06	90.86	79.33%
60	7.40	1.95	9.35	9.92	875.61	2.82E-06	98.16	85.25%	7.16	1.95	9.11	0.56	870.98	2.78E-06	90.56	79.07%
61	7.40	1.95	9.35	8.98	870.98	2.82E-06	98.73	86.20%	7.17	1.95	9.12	-13.15	870.98	2.76E-06	90.03	78.61%
62	7.41	1.95	9.36	7.58	873.30	2.82E-06	99.58	86.72%	7.17	1.95	9.12	1.87	870.98	2.78E-06	90.55	79.06%
63	7.41	1.95	9.36	2.40	873.30	2.80E-06	97.58	84.98%	7.17	1.95	9.12	0.03	870.98	2.79E-06	90.52	79.03%
64	7.41	1.95	9.36	8.91	873.30	2.79E-06	97.29	84.72%	7.16	1.95	9.11	8.67	870.98	2.79E-06	90.52	79.03%
65	7.42	1.95	9.37	0.94	873.30	2.81E-06	98.43	85.71%	7.15	1.95	9.10	28.67	873.30	2.79E-06	91.08	79.31%
66	7.42	1.95	9.36	5.12	873.30	2.80E-06	97.57	84.96%	7.16	1.95	9.11	18.22	870.98	2.79E-06	91.64	80.02%
67	7.42	1.95	9.37	-0.49	870.98	2.81E-06	97.85	85.44%	7.17	1.95	9.12	3.17	873.30	2.79E-06	91.07	79.31%
68	7.41	1.95	9.36	12.59	870.98	2.80E-06	97.00	84.69%	7.18	1.95	9.13	-0.52	870.98	2.80E-06	90.20	78.76%
69	7.43	1.95	9.38	2.75	870.98	2.81E-06	97.85	85.43%	7.16	1.95	9.11	20.89	870.98	2.79E-06	89.94	78.52%

70	7.42	1.95	9.37	13.52	870.98	2.81E-06	98.41	85.93%	7.17	1.95	9.12	20.89	870.98	2.80E-06	93.03	81.23%
71	7.42	1.95	9.37	12.58	873.30	2.81E-06	98.98	86.19%	7.16	1.95	9.11	24.97	870.98	2.79E-06	91.63	80.00%
72	7.43	1.95	9.38	7.40	870.98	2.81E-06	98.41	85.92%	7.18	1.95	9.13	13.12	870.98	2.79E-06	91.62	80.00%
73	7.43	1.95	9.38	4.57	870.98	2.80E-06	97.55	85.17%	7.18	1.95	9.13	9.90	870.98	2.79E-06	91.05	79.50%
74	7.43	1.95	9.38	8.75	870.98	2.82E-06	98.11	85.67%	7.20	1.95	9.15	-0.16	870.98	2.78E-06	89.96	78.54%
75	7.43	1.95	9.38	12.48	870.98	2.81E-06	97.26	84.92%	7.18	1.95	9.13	15.36	870.98	2.78E-06	91.35	79.76%
76	7.43	1.95	9.38	9.19	873.30	2.81E-06	97.26	84.69%	7.18	1.95	9.13	15.80	870.98	2.79E-06	91.61	79.99%
77	7.43	1.95	9.38	12.44	870.98	2.82E-06	96.96	84.66%	7.18	1.95	9.13	12.59	870.98	2.79E-06	91.05	79.50%
78	7.43	1.95	9.38	11.96	870.98	2.80E-06	96.40	84.17%	7.19	1.95	9.14	2.54	870.98	2.79E-06	90.48	79.00%
79	7.43	1.95	9.38	19.92	870.98	2.81E-06	97.25	84.91%	7.18	1.95	9.13	18.03	873.30	2.79E-06	91.04	79.28%
80	7.43	1.95	9.38	20.85	870.98	2.82E-06	97.53	85.15%	7.20	1.95	9.15	3.88	870.98	2.79E-06	91.04	79.49%
81	7.43	1.95	9.38	19.92	870.98	2.82E-06	98.38	85.90%	7.18	1.95	9.13	32.15	870.98	2.79E-06	90.47	78.99%
82	7.43	1.95	9.38	24.56	870.98	2.80E-06	96.39	84.16%	7.18	1.95	9.13	27.13	870.98	2.79E-06	91.03	79.48%
83	7.45	1.95	9.40	2.52	870.98	2.79E-06	96.68	84.41%	7.19	1.95	9.14	15.71	873.30	2.79E-06	91.03	79.27%
84	7.44	1.95	9.39	19.85	870.98	2.79E-06	96.11	83.91%	7.17	1.95	9.12	28.46	873.30	2.78E-06	91.33	79.53%
85	7.44	1.95	9.39	16.55	870.98	2.80E-06	96.95	84.65%	7.18	1.95	9.13	23.89	870.98	2.79E-06	90.46	78.99%
86	7.44	1.95	9.38	15.61	868.66	2.79E-06	96.67	84.63%	7.19	1.95	9.14	14.76	873.30	2.80E-06	90.72	79.00%
87	7.44	1.95	9.39	14.20	870.98	2.80E-06	97.51	85.14%	7.19	1.95	9.14	27.05	873.30	2.80E-06	89.59	78.01%

88	7.43	1.95	9.38	28.22	870.98	2.80E-06	96.94	84.64%	7.19	1.95	9.14	27.06	873.30	2.80E-06	90.15	78.50%
89	7.45	1.95	9.39	13.70	870.98	2.81E-06	97.22	84.89%	7.19	1.95	9.14	26.59	870.98	2.79E-06	91.02	79.47%
90	7.43	1.95	9.38	24.44	870.98	2.80E-06	96.37	84.14%	7.18	1.95	9.13	37.05	870.98	2.82E-06	91.81	80.16%
91	7.45	1.95	9.39	19.76	870.98	2.80E-06	96.37	84.14%	7.18	1.95	9.13	25.17	870.98	2.81E-06	89.84	78.44%
92	7.44	1.95	9.39	21.61	870.98	2.79E-06	96.08	83.89%	7.20	1.95	9.15	21.08	870.98	2.81E-06	90.41	78.94%
93	7.44	1.95	9.39	26.28	870.98	2.80E-06	97.50	85.13%	7.20	1.95	9.15	20.16	873.30	2.80E-06	90.14	78.50%
94	7.44	1.95	9.39	24.88	870.98	2.79E-06	96.08	83.89%	7.20	1.95	9.15	26.97	870.98	2.81E-06	89.83	78.43%
95	7.44	1.95	9.39	32.37	870.98	2.79E-06	96.65	84.38%	7.20	1.95	9.15	19.20	870.98	2.79E-06	89.31	77.98%
96	7.44	1.95	9.39	22.52	870.98	2.79E-06	96.64	84.38%	7.19	1.95	9.14	35.63	870.98	2.80E-06	90.70	79.20%
97	7.45	1.95	9.39	23.44	870.98	2.80E-06	96.36	84.13%	7.18	1.95	9.13	42.45	870.98	2.79E-06	90.44	78.96%
98	7.45	1.95	9.40	25.77	870.98	2.80E-06	98.05	85.61%	7.19	1.95	9.14	35.15	870.98	2.79E-06	89.31	77.98%
99	7.45	1.95	9.40	27.63	870.98	2.79E-06	96.63	84.37%	7.21	1.95	9.16	14.15	870.98	2.78E-06	89.61	78.24%
100	7.45	1.95	9.40	29.04	870.98	2.78E-06	95.79	83.63%	7.21	1.95	9.16	20.54	870.98	2.79E-06	89.30	77.97%
101	7.46	1.95	9.41	22.95	868.66	2.79E-06	96.63	84.60%	7.20	1.95	9.15	35.61	870.98	2.80E-06	89.56	78.20%
102	7.46	1.95	9.40	28.11	870.98	2.79E-06	96.63	84.37%	7.20	1.95	9.15	35.13	870.98	2.80E-06	89.56	78.19%
103	7.45	1.95	9.40	28.56	870.98	2.79E-06	97.76	85.35%	7.20	1.95	9.15	34.66	870.98	2.80E-06	90.12	78.69%
104	7.47	1.95	9.42	15.41	870.98	2.79E-06	96.62	84.36%	7.20	1.95	9.15	36.03	870.98	2.80E-06	90.12	78.69%
105	7.47	1.95	9.42	15.38	868.66	2.79E-06	96.62	84.59%	7.19	1.95	9.14	36.90	868.66	2.79E-06	89.29	78.17%

106	7.46	1.95	9.41	31.34	870.98	2.79E-06	96.05	83.87%	7.22	1.95	9.17	13.16	870.98	2.79E-06	89.85	78.45%
107	7.46	1.95	9.40	29.90	870.98	2.80E-06	96.33	84.11%	7.21	1.95	9.16	28.22	870.98	2.79E-06	88.16	76.97%
108	7.46	1.95	9.41	34.63	868.66	2.78E-06	96.33	84.33%	7.21	1.95	9.16	32.34	870.98	2.79E-06	89.28	77.95%
109	7.46	1.95	9.41	32.72	866.35	2.79E-06	93.23	81.84%	7.19	1.95	9.14	53.29	870.98	2.79E-06	89.85	78.45%
110	7.45	1.95	9.40	34.59	868.66	2.79E-06	98.31	86.06%	7.20	1.95	9.15	31.40	870.98	2.79E-06	89.85	78.45%
111	7.45	1.95	9.40	35.51	868.66	2.79E-06	97.18	85.07%	7.20	1.95	9.15	33.23	870.98	2.79E-06	89.85	78.45%
112	7.47	1.95	9.42	26.13	870.98	2.77E-06	95.76	83.61%	7.20	1.95	9.15	32.29	870.98	2.78E-06	88.46	77.23%
113	7.46	1.95	9.41	39.26	870.98	2.77E-06	96.32	84.10%	7.21	1.95	9.16	32.30	870.98	2.78E-06	89.32	77.98%
114	7.46	1.95	9.40	36.39	870.98	2.74E-06	94.36	82.38%	7.21	1.95	9.16	34.54	870.98	2.76E-06	87.11	76.06%
115	7.47	1.95	9.41	29.38	870.98	2.74E-06	96.02	83.84%	7.22	1.95	9.17	23.13	870.98	2.78E-06	89.31	77.98%
116	7.47	1.95	9.42	27.50	870.98	2.80E-06	96.31	84.09%	7.20	1.95	9.15	38.64	870.98	2.78E-06	89.01	77.72%
117	7.46	1.95	9.41	41.56	870.98	2.80E-06	96.31	84.09%	7.20	1.95	9.15	44.13	870.98	2.78E-06	89.57	78.21%
118	7.47	1.95	9.42	28.45	870.98	2.78E-06	95.75	83.61%	7.20	1.95	9.15	45.48	870.98	2.79E-06	89.27	77.94%
119	7.47	1.95	9.42	32.18	870.98	2.77E-06	95.75	83.60%	7.20	1.95	9.15	35.90	868.66	2.80E-06	88.96	77.88%
120	7.48	1.95	9.42	30.29	870.98	2.78E-06	95.47	83.35%	7.22	1.95	9.17	25.37	870.98	2.79E-06	88.14	76.95%
121	7.48	1.95	9.43	27.45	870.98	2.78E-06	96.30	84.09%	7.20	1.95	9.15	41.34	870.98	2.81E-06	88.65	77.40%
122	7.46	1.95	9.41	39.62	868.66	2.78E-06	94.90	83.08%	7.21	1.95	9.16	44.55	870.98	2.80E-06	88.39	77.17%
123	7.46	1.95	9.41	43.87	868.66	2.78E-06	95.74	83.82%	7.20	1.95	9.15	43.59	870.98	2.81E-06	89.21	77.89%

124	7.47	1.95	9.41	38.23	870.98	2.78E-06	96.30	84.08%	7.20	1.95	9.15	46.78	870.98	2.79E-06	88.13	76.95%
125	7.47	1.95	9.42	37.76	868.66	2.78E-06	96.02	84.06%	7.21	1.95	9.16	39.95	870.98	2.79E-06	88.69	77.44%
126	7.46	1.95	9.40	50.39	870.98	2.80E-06	96.30	84.08%	7.20	1.95	9.15	45.86	870.98	2.78E-06	87.30	76.23%
127	7.47	1.95	9.42	41.96	870.98	2.79E-06	95.45	83.34%	7.22	1.95	9.17	30.81	870.98	2.80E-06	88.38	77.17%
128	7.48	1.95	9.43	39.62	870.98	2.81E-06	94.87	82.83%	7.21	1.95	9.16	44.50	870.98	2.78E-06	88.43	77.21%
129	7.47	1.95	9.42	40.08	870.98	2.80E-06	96.29	84.07%	7.21	1.95	9.16	41.76	870.98	2.79E-06	89.25	77.93%
130	7.47	1.95	9.42	41.47	870.98	2.82E-06	96.85	84.56%	7.20	1.95	9.15	59.10	870.98	2.80E-06	89.51	78.15%
131	7.47	1.95	9.42	44.29	868.66	2.80E-06	95.72	83.80%	7.21	1.95	9.16	44.03	870.98	2.79E-06	88.69	77.43%
132	7.48	1.95	9.43	41.98	870.98	2.81E-06	97.14	84.81%	7.22	1.95	9.17	44.50	870.98	2.78E-06	87.60	76.49%
133	7.47	1.95	9.42	41.46	870.98	2.81E-06	96.00	83.82%	7.23	1.95	9.18	34.43	870.98	2.79E-06	87.55	76.44%
134	7.49	1.95	9.44	30.18	870.98	2.80E-06	95.15	83.08%	7.22	1.95	9.17	52.24	870.98	2.78E-06	87.29	76.22%
135	7.48	1.95	9.43	41.44	868.66	2.80E-06	95.15	83.30%	7.21	1.95	9.16	54.54	870.98	2.79E-06	88.11	76.93%
136	7.47	1.95	9.42	42.82	870.98	2.80E-06	95.14	83.07%	7.20	1.95	9.15	64.56	870.98	2.78E-06	89.28	77.96%
137	7.48	1.95	9.43	46.18	870.98	2.80E-06	95.71	83.57%	7.21	1.95	9.16	50.40	873.30	2.78E-06	87.85	76.50%
138	7.47	1.95	9.42	48.00	870.98	2.79E-06	96.00	83.82%	7.23	1.95	9.18	33.94	870.98	2.78E-06	87.29	76.21%
139	7.48	1.95	9.43	47.09	870.98	2.80E-06	96.84	84.55%	7.23	1.95	9.18	40.37	870.98	2.78E-06	88.15	76.97%
140	7.48	1.95	9.43	47.08	868.66	2.79E-06	95.99	84.04%	7.22	1.95	9.17	53.13	873.30	2.79E-06	88.67	77.21%
141	7.48	1.95	9.42	50.32	870.98	2.79E-06	94.30	82.33%	7.21	1.95	9.16	64.56	870.98	2.79E-06	88.67	77.42%

142	7.49	1.95	9.44	45.20	870.98	2.80E-06	95.14	83.06%	7.22	1.95	9.17	57.25	873.30	2.78E-06	88.97	77.48%
143	7.49	1.95	9.44	44.26	870.98	2.79E-06	95.42	83.32%	7.22	1.95	9.17	52.67	870.98	2.79E-06	89.23	77.91%
144	7.49	1.95	9.43	48.95	868.66	2.80E-06	95.14	83.29%	7.23	1.95	9.18	31.63	870.98	2.78E-06	87.59	76.48%
145	7.49	1.95	9.44	43.31	868.66	2.79E-06	95.42	83.54%	7.22	1.95	9.17	48.56	873.30	2.78E-06	87.84	76.49%
146	7.49	1.95	9.43	48.00	868.66	2.79E-06	96.55	84.52%	7.23	1.95	9.18	40.79	873.30	2.78E-06	87.58	76.27%
147	7.49	1.95	9.44	48.02	868.66	2.78E-06	95.14	83.29%	7.21	1.95	9.16	59.48	870.98	2.78E-06	87.58	76.47%
148	7.50	1.95	9.45	36.72	870.98	2.78E-06	95.70	83.56%	7.20	1.95	9.15	67.63	870.98	2.78E-06	88.14	76.96%
149	7.48	1.95	9.43	54.55	868.66	2.79E-06	95.42	83.53%	7.21	1.95	9.16	55.80	870.98	2.78E-06	88.14	76.96%
150	7.48	1.95	9.43	60.16	868.66	2.78E-06	95.13	83.29%	7.22	1.95	9.17	48.96	873.30	2.77E-06	87.88	76.53%
151	7.48	1.95	9.43	55.92	870.98	2.78E-06	94.86	82.82%	7.22	1.95	9.17	47.58	875.61	2.79E-06	88.66	77.00%
152	7.48	1.95	9.43	51.72	870.98	2.78E-06	96.26	84.05%	7.23	1.95	9.18	48.52	873.30	2.78E-06	87.58	76.26%
153	7.49	1.95	9.44	48.45	870.98	2.79E-06	95.98	83.80%	7.23	1.95	9.18	40.73	870.98	2.79E-06	88.09	76.91%
154	7.50	1.95	9.45	43.74	868.66	2.80E-06	95.12	83.28%	7.21	1.95	9.16	62.19	870.98	2.78E-06	88.40	77.18%
155	7.50	1.95	9.45	45.14	868.66	2.80E-06	94.56	82.78%	7.22	1.95	9.17	54.90	870.98	2.78E-06	88.40	77.18%
156	7.48	1.95	9.43	59.69	868.66	2.82E-06	95.10	83.26%	7.23	1.95	9.18	48.05	870.98	2.78E-06	87.57	76.46%
157	7.48	1.95	9.43	56.86	870.98	2.79E-06	94.84	82.81%	7.25	1.95	9.20	33.88	873.30	2.78E-06	87.27	75.99%
158	7.49	1.95	9.44	53.12	870.98	2.79E-06	95.97	83.79%	7.23	1.95	9.18	52.62	870.98	2.79E-06	86.95	75.92%
159	7.49	1.95	9.44	51.25	870.98	2.79E-06	95.97	83.79%	7.24	1.95	9.19	55.39	870.98	2.78E-06	87.26	76.19%

160	7.50	1.95	9.45	47.50	870.98	2.80E-06	96.25	84.04%	7.22	1.95	9.17	67.66	870.98	2.79E-06	87.52	76.41%
161	7.49	1.95	9.44	53.56	868.66	2.79E-06	94.84	83.03%	7.23	1.95	9.18	46.66	873.30	2.79E-06	88.65	77.19%
162	7.50	1.95	9.45	49.82	870.98	2.79E-06	94.83	82.80%	7.23	1.95	9.18	47.55	870.98	2.79E-06	87.52	76.41%
163	7.49	1.95	9.44	54.49	870.98	2.79E-06	95.40	83.29%	7.24	1.95	9.19	43.45	873.30	2.79E-06	88.08	76.70%
164	7.49	1.95	9.43	61.52	870.98	2.79E-06	94.83	82.80%	7.25	1.95	9.20	36.11	873.30	2.78E-06	87.26	75.98%
165	7.49	1.95	9.44	52.61	870.98	2.79E-06	95.40	83.29%	7.24	1.95	9.19	48.49	873.30	2.78E-06	88.38	76.96%
166	7.49	1.95	9.44	57.77	870.98	2.80E-06	95.11	83.04%	7.24	1.95	9.19	46.67	873.30	2.78E-06	88.38	76.96%
167	7.50	1.95	9.44	51.67	870.98	2.79E-06	95.40	83.29%	7.22	1.95	9.17	63.54	870.98	2.79E-06	89.21	77.89%
168	7.50	1.95	9.45	51.70	875.61	2.79E-06	95.39	82.85%	7.23	1.95	9.18	53.03	875.61	2.79E-06	87.51	76.00%
169	7.51	1.95	9.45	51.69	873.30	2.82E-06	95.66	83.30%	7.24	1.95	9.19	52.58	873.30	2.79E-06	86.94	75.71%
170	7.50	1.95	9.45	55.40	875.61	2.82E-06	93.95	81.59%	7.24	1.95	9.19	50.30	873.30	2.78E-06	86.69	75.49%
171	7.51	1.95	9.46	52.62	875.61	2.80E-06	94.53	82.10%	7.24	1.95	9.19	48.46	873.30	2.77E-06	86.74	75.54%
172	7.51	1.95	9.45	54.04	875.61	2.76E-06	93.72	81.39%	7.23	1.95	9.18	61.69	873.30	2.78E-06	87.56	76.25%
173	7.50	1.95	9.45	55.91	875.61	2.79E-06	95.39	82.84%	7.22	1.95	9.17	60.28	875.61	2.78E-06	87.82	76.27%
174	7.50	1.95	9.45	57.80	875.61	2.79E-06	95.95	83.33%	7.24	1.95	9.19	53.02	875.61	2.79E-06	87.51	76.00%
175	7.51	1.95	9.46	49.80	877.93	2.78E-06	95.67	82.87%	7.24	1.95	9.19	47.51	875.61	2.79E-06	86.94	75.51%
176	7.51	1.95	9.46	55.45	877.93	2.78E-06	95.10	82.38%	7.23	1.95	9.18	56.66	873.30	2.80E-06	87.76	76.42%
177	7.52	1.95	9.46	49.32	875.61	2.79E-06	94.82	82.35%	7.25	1.95	9.20	47.08	875.61	2.80E-06	87.76	76.22%

178	7.51	1.95	9.46	51.20	875.61	2.78E-06	94.54	82.11%	7.23	1.95	9.18	60.29	873.30	2.79E-06	87.50	76.20%
179	7.51	1.95	9.46	54.50	875.61	2.78E-06	95.10	82.60%	7.23	1.95	9.18	58.02	873.30	2.79E-06	87.50	76.20%
180	7.49	1.95	9.44	64.80	875.61	2.78E-06	95.67	83.09%	7.23	1.95	9.18	56.19	875.61	2.78E-06	87.81	76.26%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 10° (Data 2)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	UI (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	UI (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	6.48	1.95	8.43	10.95	850.13	2.82E-06	0.00	0.00%	4.63	1.95	6.58	10.84	822.33	2.78E-06	0.00	0.00%
1	6.18	1.95	8.13	-26.88	859.40	2.79E-06	31.21	27.62%	6.29	1.95	8.24	-18.60	833.92	2.80E-06	42.68	38.92%
2	6.43	1.95	8.38	-27.72	866.35	2.80E-06	51.21	44.95%	5.37	1.95	7.32	-22.74	836.23	2.81E-06	67.32	61.22%
3	6.58	1.95	8.53	-27.39	868.66	2.80E-06	60.30	52.79%	5.96	1.95	7.91	-23.00	843.18	2.81E-06	74.15	66.88%
4	6.69	1.95	8.64	-19.99	870.98	2.79E-06	64.66	56.45%	6.23	1.95	8.18	-17.29	845.50	2.79E-06	75.98	68.34%
5	6.80	1.95	8.74	-29.88	875.61	2.79E-06	69.19	60.09%	6.39	1.95	8.34	-20.99	847.82	2.80E-06	77.91	69.88%
6	6.87	1.95	8.82	-28.40	877.93	2.79E-06	71.45	61.89%	6.51	1.95	8.46	-28.96	847.82	2.79E-06	78.81	70.69%
7	6.94	1.95	8.88	-30.87	880.25	2.80E-06	74.49	64.35%	6.60	1.95	8.55	-31.43	852.45	2.80E-06	80.74	72.03%
8	7.00	1.95	8.94	-32.89	877.93	2.79E-06	76.54	66.30%	6.67	1.95	8.62	-22.62	854.76	2.79E-06	82.20	73.13%
9	7.03	1.95	8.98	-26.75	880.25	2.79E-06	78.80	68.08%	6.71	1.95	8.66	-19.31	852.45	2.78E-06	83.65	74.62%
10	7.07	1.95	9.01	-22.35	880.25	2.79E-06	81.63	70.52%	6.77	1.95	8.72	-23.36	852.45	2.79E-06	84.46	75.35%
11	7.11	1.95	9.05	-32.43	884.88	2.79E-06	83.32	71.61%	6.81	1.95	8.76	-27.00	852.45	2.78E-06	85.34	76.13%
12	7.15	1.95	9.10	-35.33	884.88	2.79E-06	84.45	72.58%	6.85	1.95	8.80	-31.55	857.08	2.78E-06	85.65	75.99%
13	7.16	1.95	9.11	-26.77	887.19	2.78E-06	85.33	73.14%	6.88	1.95	8.83	-26.36	854.76	2.78E-06	86.46	76.92%
14	7.21	1.95	9.15	-40.65	887.19	2.78E-06	85.89	73.62%	6.90	1.95	8.85	-18.49	857.08	2.78E-06	87.33	77.49%
15	7.20	1.95	9.15	-11.34	887.19	2.79E-06	88.41	75.78%	6.92	1.95	8.87	-22.54	854.76	2.78E-06	87.89	78.20%

16	7.22	1.95	9.17	-26.97	887.19	2.79E-06	89.54	76.75%	6.95	1.95	8.90	-28.86	857.08	2.78E-06	88.45	78.48%
17	7.25	1.95	9.20	-38.13	887.19	2.80E-06	90.36	77.45%	6.96	1.95	8.91	-24.00	859.40	2.75E-06	88.23	78.07%
18	7.26	1.95	9.21	-27.13	887.19	2.78E-06	90.96	77.97%	6.98	1.95	8.93	-28.55	861.71	2.77E-06	88.75	78.32%
19	7.27	1.95	9.22	-23.97	884.88	2.79E-06	91.22	78.40%	7.00	1.95	8.95	-23.71	861.71	2.78E-06	89.00	78.55%
20	7.29	1.95	9.23	-32.80	884.88	2.78E-06	92.08	79.14%	7.00	1.95	8.95	-21.06	857.08	2.77E-06	89.30	79.23%
21	7.28	1.95	9.23	-25.43	887.19	2.78E-06	92.64	79.41%	7.00	1.95	8.95	-8.54	857.08	2.79E-06	90.65	80.43%
22	7.30	1.95	9.25	-35.21	880.25	2.80E-06	94.32	81.48%	7.02	1.95	8.97	-15.73	854.76	2.78E-06	90.68	80.68%
23	7.32	1.95	9.27	-31.13	884.88	2.79E-06	92.91	79.84%	7.04	1.95	8.99	-19.84	861.71	2.78E-06	90.12	79.53%
24	7.31	1.95	9.26	-24.20	887.19	2.81E-06	94.01	80.58%	7.05	1.95	9.00	-23.93	859.40	2.79E-06	91.77	81.21%
25	7.33	1.95	9.27	-33.05	887.19	2.80E-06	94.30	80.83%	7.06	1.95	9.01	-27.60	861.71	2.77E-06	89.84	79.29%
26	7.32	1.95	9.26	-15.44	884.88	2.80E-06	94.30	81.04%	7.06	1.95	9.01	-22.66	859.40	2.79E-06	91.20	80.70%
27	7.34	1.95	9.29	-27.54	884.88	2.79E-06	95.72	82.27%	7.07	1.95	9.02	-31.72	857.08	2.79E-06	90.63	80.42%
28	7.34	1.95	9.29	-26.64	887.19	2.80E-06	96.00	82.29%	7.06	1.95	9.01	-15.93	857.08	2.80E-06	90.89	80.65%
29	7.35	1.95	9.29	-31.80	887.19	2.79E-06	95.71	82.04%	7.06	1.95	9.01	-10.55	861.71	2.78E-06	90.36	79.75%
30	7.36	1.95	9.30	-30.00	887.19	2.80E-06	95.99	82.28%	7.08	1.95	9.03	-23.22	861.71	2.80E-06	90.89	80.21%
31	7.35	1.95	9.30	-23.04	887.19	2.79E-06	95.14	81.55%	7.08	1.95	9.03	-16.93	859.40	2.79E-06	90.62	80.19%
32	7.35	1.95	9.30	-6.78	887.19	2.79E-06	96.27	82.52%	7.08	1.95	9.03	-13.36	859.40	2.79E-06	90.05	79.68%
33	7.37	1.95	9.32	-22.65	884.88	2.78E-06	95.99	82.49%	7.09	1.95	9.04	-23.79	859.40	2.79E-06	91.18	80.68%

34	7.37	1.95	9.32	-19.41	887.19	2.79E-06	97.39	83.48%	7.10	1.95	9.05	-22.92	859.40	2.80E-06	91.44	80.91%
35	7.37	1.95	9.31	-16.62	887.19	2.79E-06	97.96	83.96%	7.08	1.95	9.03	-2.11	859.40	2.79E-06	91.74	81.18%
36	7.37	1.95	9.32	-16.68	887.19	2.79E-06	96.25	82.50%	7.09	1.95	9.04	-8.46	857.08	2.80E-06	91.44	81.13%
37	7.39	1.95	9.34	-32.60	882.56	2.79E-06	96.81	83.42%	7.10	1.95	9.05	-12.11	859.40	2.79E-06	91.17	80.67%
38	7.38	1.95	9.33	-16.73	884.88	2.80E-06	97.66	83.93%	7.10	1.95	9.05	-8.51	857.08	2.80E-06	91.43	81.12%
39	7.38	1.95	9.33	-20.95	887.19	2.80E-06	98.23	84.20%	7.11	1.95	9.06	-13.98	857.08	2.79E-06	90.59	80.38%
40	7.39	1.95	9.34	-20.99	884.88	2.81E-06	98.51	84.66%	7.10	1.95	9.05	-4.49	857.08	2.80E-06	91.42	81.12%
41	7.40	1.95	9.35	-25.24	884.88	2.81E-06	97.93	84.16%	7.10	1.95	9.05	-4.96	857.08	2.79E-06	91.15	80.88%
42	7.40	1.95	9.35	-26.21	887.19	2.81E-06	97.93	83.94%	7.10	1.95	9.05	-4.54	857.08	2.80E-06	90.85	80.61%
43	7.39	1.95	9.34	-10.81	884.88	2.80E-06	97.07	83.43%	7.11	1.95	9.06	-4.54	861.71	2.80E-06	91.41	80.67%
44	7.38	1.95	9.33	2.72	884.88	2.80E-06	98.77	84.89%	7.11	1.95	9.06	-9.10	857.08	2.80E-06	91.98	81.61%
45	7.38	1.95	9.33	6.43	887.19	2.79E-06	97.92	83.93%	7.11	1.95	9.06	-7.77	857.08	2.79E-06	91.14	80.87%
46	7.41	1.95	9.36	-21.62	882.56	2.78E-06	98.76	85.10%	7.11	1.95	9.06	-2.81	854.76	2.79E-06	90.57	80.58%
47	7.40	1.95	9.35	-7.62	887.19	2.80E-06	98.19	84.17%	7.11	1.95	9.06	-6.00	857.08	2.79E-06	91.13	80.86%
48	7.42	1.95	9.37	-23.59	882.56	2.80E-06	98.19	84.61%	7.12	1.95	9.07	-10.54	854.76	2.78E-06	91.43	81.34%
49	7.40	1.95	9.35	-0.19	882.56	2.79E-06	97.90	84.36%	7.12	1.95	9.07	0.33	854.76	2.80E-06	91.40	81.31%
50	7.41	1.95	9.36	-6.76	884.88	2.79E-06	98.46	84.62%	7.12	1.95	9.07	-1.95	857.08	2.79E-06	91.69	81.36%
51	7.41	1.95	9.35	-4.43	882.56	2.79E-06	99.03	85.33%	7.13	1.95	9.08	-4.72	854.76	2.80E-06	90.82	80.80%

52	7.42	1.95	9.36	-8.68	882.56	2.79E-06	98.46	84.84%	7.14	1.95	9.09	-4.75	854.76	2.79E-06	90.55	80.56%
53	7.41	1.95	9.36	-1.67	887.19	2.78E-06	98.73	84.63%	7.14	1.95	9.09	-0.22	877.93	2.80E-06	91.38	79.15%
54	7.42	1.95	9.36	-0.75	882.56	2.78E-06	98.44	84.82%	7.15	1.95	9.10	-2.06	880.25	2.79E-06	91.68	79.20%
55	7.41	1.95	9.36	-3.58	882.56	2.79E-06	98.45	84.83%	7.15	1.95	9.10	0.20	875.61	2.79E-06	92.24	80.11%
56	7.41	1.95	9.36	2.95	884.88	2.79E-06	98.44	84.60%	7.15	1.95	9.10	5.66	877.93	2.79E-06	92.24	79.90%
57	7.41	1.95	9.36	8.08	884.88	2.79E-06	99.01	85.09%	7.15	1.95	9.10	9.74	880.25	2.79E-06	92.80	80.17%
58	7.43	1.95	9.38	-5.05	887.19	2.79E-06	98.44	84.38%	7.16	1.95	9.11	3.35	880.25	2.79E-06	92.80	80.17%
59	7.43	1.95	9.38	-1.32	884.88	2.80E-06	99.29	85.33%	7.17	1.95	9.12	0.14	880.25	2.79E-06	92.23	79.68%
60	7.41	1.95	9.36	14.09	884.88	2.79E-06	98.43	84.59%	7.17	1.95	9.12	2.38	880.25	2.78E-06	91.39	78.96%
61	7.43	1.95	9.37	-2.30	884.88	2.78E-06	98.14	84.34%	7.18	1.95	9.13	-5.38	877.93	2.78E-06	92.52	80.14%
62	7.42	1.95	9.36	15.01	884.88	2.78E-06	98.70	84.82%	7.16	1.95	9.11	9.65	877.93	2.78E-06	92.51	80.14%
63	7.41	1.95	9.36	18.27	884.88	2.78E-06	99.26	85.31%	7.16	1.95	9.11	15.56	880.25	2.79E-06	92.78	80.16%
64	7.44	1.95	9.38	-0.95	882.56	2.78E-06	97.84	84.31%	7.17	1.95	9.12	7.35	880.25	2.78E-06	91.68	79.20%
65	7.43	1.95	9.38	10.28	882.56	2.78E-06	98.40	84.79%	7.18	1.95	9.13	3.23	880.25	2.78E-06	92.51	79.92%
66	7.44	1.95	9.38	5.57	882.56	2.78E-06	98.40	84.79%	7.18	1.95	9.13	8.69	877.93	2.79E-06	92.21	79.87%
67	7.43	1.95	9.38	16.34	882.56	2.78E-06	99.25	85.52%	7.19	1.95	9.14	-3.67	877.93	2.78E-06	90.54	78.43%
68	7.44	1.95	9.39	11.64	882.56	2.78E-06	98.12	84.54%	7.19	1.95	9.14	-0.04	880.25	2.79E-06	92.20	79.66%
69	7.44	1.95	9.39	5.99	884.88	2.79E-06	98.96	85.05%	7.18	1.95	9.13	20.02	880.25	2.79E-06	91.63	79.16%

70	7.43	1.95	9.38	15.34	884.88	2.79E-06	98.40	84.56%	7.19	1.95	9.14	6.78	877.93	2.79E-06	92.20	79.86%
71	7.45	1.95	9.40	4.07	882.56	2.79E-06	98.39	84.78%	7.17	1.95	9.12	17.26	877.93	2.79E-06	91.63	79.37%
72	7.44	1.95	9.39	7.80	884.88	2.79E-06	98.39	84.56%	7.18	1.95	9.13	11.80	880.25	2.79E-06	92.19	79.65%
73	7.46	1.95	9.41	1.69	880.25	2.79E-06	98.95	85.49%	7.20	1.95	9.15	4.92	880.25	2.79E-06	91.62	79.16%
74	7.44	1.95	9.39	19.04	880.25	2.79E-06	99.51	85.97%	7.20	1.95	9.15	8.09	880.25	2.79E-06	91.05	78.66%
75	7.45	1.95	9.40	15.74	884.88	2.78E-06	98.66	84.79%	7.19	1.95	9.14	19.49	880.25	2.78E-06	91.35	78.92%
76	7.46	1.95	9.41	2.11	884.88	2.78E-06	98.65	84.78%	7.18	1.95	9.13	25.40	877.93	2.80E-06	91.88	79.59%
77	7.46	1.95	9.41	14.79	884.88	2.79E-06	98.94	85.03%	7.19	1.95	9.14	13.99	880.25	2.78E-06	91.35	78.92%
78	7.45	1.95	9.40	18.98	880.25	2.79E-06	98.37	84.99%	7.18	1.95	9.13	20.38	880.25	2.79E-06	91.61	79.15%
79	7.45	1.95	9.40	19.90	887.19	2.79E-06	98.93	84.80%	7.19	1.95	9.14	18.53	880.25	2.78E-06	91.34	78.91%
80	7.45	1.95	9.40	17.07	884.88	2.79E-06	98.93	85.02%	7.19	1.95	9.14	13.49	880.25	2.79E-06	91.04	78.65%
81	7.44	1.95	9.39	24.58	884.88	2.79E-06	100.06	85.99%	7.19	1.95	9.14	16.68	880.25	2.79E-06	91.60	79.14%
82	7.47	1.95	9.42	2.48	884.88	2.78E-06	98.64	84.77%	7.19	1.95	9.14	18.01	880.25	2.79E-06	90.47	78.16%
83	7.46	1.95	9.41	11.39	887.19	2.79E-06	97.79	83.82%	7.18	1.95	9.13	28.51	877.93	2.80E-06	91.87	79.58%
84	7.46	1.95	9.41	17.49	887.19	2.79E-06	98.92	84.79%	7.18	1.95	9.13	25.30	880.25	2.79E-06	92.73	80.11%
85	7.44	1.95	9.39	29.19	884.88	2.79E-06	98.35	84.52%	7.18	1.95	9.13	27.11	877.93	2.78E-06	91.62	79.37%
86	7.46	1.95	9.40	16.98	887.19	2.78E-06	98.62	84.54%	7.19	1.95	9.14	20.73	880.25	2.78E-06	91.06	78.67%
87	7.45	1.95	9.40	25.89	882.56	2.79E-06	98.91	85.23%	7.19	1.95	9.14	22.54	866.35	2.78E-06	91.32	80.16%

88	7.47	1.95	9.42	8.97	887.19	2.79E-06	97.78	83.81%	7.20	1.95	9.15	16.13	866.35	2.78E-06	90.76	79.67%
89	7.47	1.95	9.42	22.61	889.51	2.79E-06	98.34	84.07%	7.20	1.95	9.15	14.73	868.66	2.78E-06	89.93	78.73%
90	7.47	1.95	9.41	20.69	887.19	2.79E-06	98.34	84.29%	7.20	1.95	9.15	16.55	864.03	2.78E-06	90.49	79.64%
91	7.47	1.95	9.42	22.57	884.88	2.79E-06	98.33	84.51%	7.19	1.95	9.14	19.29	864.03	2.77E-06	90.78	79.90%
92	7.45	1.95	9.40	51.64	887.19	2.81E-06	99.48	85.27%	7.18	1.95	9.13	33.39	868.66	2.78E-06	90.49	79.22%
93	7.47	1.95	9.42	26.75	887.19	2.79E-06	96.63	82.83%	7.20	1.95	9.15	17.89	868.66	2.78E-06	90.48	79.21%
94	7.48	1.95	9.43	22.04	884.88	2.78E-06	96.91	83.28%	7.20	1.95	9.15	21.53	866.35	2.77E-06	89.65	78.70%
95	7.48	1.95	9.43	22.50	887.19	2.79E-06	97.75	83.79%	7.20	1.95	9.15	18.31	866.35	2.78E-06	89.35	78.43%
96	7.47	1.95	9.41	33.77	887.19	2.79E-06	97.75	83.79%	7.19	1.95	9.14	22.41	866.35	2.78E-06	90.47	79.42%
97	7.46	1.95	9.41	34.69	884.88	2.78E-06	98.03	84.25%	7.19	1.95	9.14	32.00	866.35	2.78E-06	89.91	78.92%
98	7.47	1.95	9.42	25.31	884.88	2.79E-06	99.45	85.47%	7.19	1.95	9.14	30.60	866.35	2.77E-06	90.21	79.18%
99	7.47	1.95	9.41	33.28	887.19	2.78E-06	98.59	84.51%	7.19	1.95	9.14	36.99	864.03	2.78E-06	90.47	79.63%
100	7.46	1.95	9.41	43.13	887.19	2.79E-06	98.31	84.27%	7.20	1.95	9.15	21.92	866.35	2.78E-06	89.35	78.43%
101	7.48	1.95	9.43	26.22	887.19	2.79E-06	98.31	84.27%	7.20	1.95	9.15	23.74	866.35	2.78E-06	89.91	78.92%
102	7.48	1.95	9.43	29.05	884.88	2.80E-06	98.03	84.25%	7.20	1.95	9.15	21.43	866.35	2.78E-06	89.60	78.65%
103	7.49	1.95	9.44	24.32	887.19	2.79E-06	97.74	83.78%	7.20	1.95	9.15	22.79	864.03	2.81E-06	90.39	79.55%
104	7.48	1.95	9.43	30.87	887.19	2.79E-06	97.74	83.78%	7.18	1.95	9.13	40.55	864.03	2.80E-06	89.56	78.82%
105	7.48	1.95	9.43	31.83	887.19	2.79E-06	98.30	84.26%	7.19	1.95	9.14	28.70	866.35	2.80E-06	90.12	79.11%

106	7.48	1.95	9.43	34.19	887.19	2.79E-06	98.87	84.74%	7.18	1.95	9.13	39.16	866.35	2.80E-06	89.55	78.61%
107	7.49	1.95	9.44	29.00	889.51	2.79E-06	98.30	84.04%	7.20	1.95	9.15	26.41	868.66	2.79E-06	89.86	78.66%
108	7.50	1.95	9.45	21.44	887.19	2.79E-06	97.73	83.77%	7.20	1.95	9.15	26.39	868.66	2.79E-06	89.29	78.17%
109	7.49	1.95	9.44	29.91	887.19	2.80E-06	98.01	84.01%	7.20	1.95	9.15	30.02	866.35	2.79E-06	88.72	77.88%
110	7.48	1.95	9.43	41.65	889.51	2.81E-06	98.86	84.52%	7.20	1.95	9.15	25.46	864.03	2.79E-06	89.29	78.58%
111	7.49	1.95	9.44	38.38	887.19	2.79E-06	97.72	83.76%	7.19	1.95	9.14	35.50	866.35	2.80E-06	89.54	78.60%
112	7.49	1.95	9.44	30.82	887.19	2.81E-06	98.86	84.74%	7.20	1.95	9.15	32.76	864.03	2.80E-06	89.54	78.81%
113	7.49	1.95	9.44	35.05	887.19	2.80E-06	98.00	84.01%	7.20	1.95	9.15	39.14	866.35	2.79E-06	88.72	77.87%
114	7.49	1.95	9.44	37.85	887.19	2.79E-06	97.15	83.27%	7.21	1.95	9.16	29.56	864.03	2.80E-06	88.97	78.31%
115	7.49	1.95	9.44	35.98	889.51	2.79E-06	97.72	83.54%	7.21	1.95	9.16	29.98	864.03	2.79E-06	87.58	77.08%
116	7.50	1.95	9.45	30.79	887.19	2.79E-06	97.15	83.27%	7.20	1.95	9.15	37.74	866.35	2.79E-06	88.14	77.37%
117	7.49	1.95	9.44	35.49	884.88	2.80E-06	97.99	84.22%	7.20	1.95	9.15	38.65	864.03	2.79E-06	89.27	78.57%
118	7.49	1.95	9.44	35.49	887.19	2.79E-06	97.71	83.75%	7.21	1.95	9.16	33.62	866.35	2.79E-06	88.71	77.87%
119	7.50	1.95	9.45	34.09	887.19	2.81E-06	98.85	84.73%	7.20	1.95	9.15	39.10	866.35	2.81E-06	88.66	77.82%
120	7.50	1.95	9.45	38.82	884.88	2.80E-06	98.56	84.70%	7.20	1.95	9.15	34.98	864.03	2.79E-06	88.14	77.58%
121	7.51	1.95	9.46	30.78	887.19	2.80E-06	97.42	83.51%	7.21	1.95	9.16	38.15	864.03	2.80E-06	88.39	77.80%
122	7.51	1.95	9.46	43.99	889.51	2.79E-06	97.13	83.04%	7.20	1.95	9.15	39.50	866.35	2.78E-06	87.88	77.14%
123	7.51	1.95	9.45	43.49	887.19	2.79E-06	97.70	83.74%	7.20	1.95	9.15	38.59	866.35	2.80E-06	88.96	78.09%

124	7.50	1.95	9.45	51.00	889.51	2.79E-06	96.57	82.56%	7.21	1.95	9.16	34.03	868.66	2.78E-06	89.00	77.92%
125	7.50	1.95	9.45	41.56	887.19	2.80E-06	97.98	83.98%	7.20	1.95	9.15	44.53	866.35	2.78E-06	88.44	77.63%
126	7.49	1.95	9.44	50.01	887.19	2.79E-06	98.82	84.70%	7.21	1.95	9.16	33.58	866.35	2.78E-06	88.74	77.90%
127	7.50	1.95	9.45	42.98	889.51	2.78E-06	97.68	83.51%	7.21	1.95	9.16	35.39	864.03	2.79E-06	88.13	77.57%
128	7.51	1.95	9.46	37.31	882.56	2.78E-06	97.12	83.68%	7.21	1.95	9.16	38.13	866.35	2.78E-06	87.61	76.91%
129	7.51	1.95	9.46	44.38	887.19	2.78E-06	96.56	82.76%	7.20	1.95	9.15	47.22	864.03	2.78E-06	87.87	77.33%
130	7.51	1.95	9.46	41.07	889.51	2.78E-06	97.11	83.03%	7.20	1.95	9.15	49.51	864.03	2.78E-06	88.99	78.33%
131	7.49	1.95	9.44	57.97	889.51	2.78E-06	97.96	83.75%	7.21	1.95	9.16	41.30	864.03	2.79E-06	88.69	78.06%
132	7.50	1.95	9.45	52.82	887.19	2.78E-06	96.84	83.00%	7.20	1.95	9.15	47.68	864.03	2.78E-06	88.43	77.83%
133	7.50	1.95	9.45	53.76	887.19	2.78E-06	97.40	83.48%	7.21	1.95	9.16	46.78	866.35	2.78E-06	88.99	78.12%
134	7.51	1.95	9.46	39.63	889.51	2.79E-06	98.25	83.99%	7.21	1.95	9.16	39.93	864.03	2.78E-06	88.43	77.83%
135	7.51	1.95	9.46	44.81	887.19	2.81E-06	97.11	83.24%	7.22	1.95	9.17	33.07	866.35	2.78E-06	87.86	77.12%
136	7.51	1.95	9.46	44.34	887.19	2.77E-06	96.82	82.99%	7.21	1.95	9.16	41.72	861.71	2.78E-06	87.60	77.31%
137	7.51	1.95	9.46	46.21	887.19	2.77E-06	96.82	82.99%	7.21	1.95	9.16	48.10	864.03	2.78E-06	87.86	77.33%
138	7.51	1.95	9.46	44.32	884.88	2.78E-06	96.26	82.73%	7.22	1.95	9.17	36.24	864.03	2.78E-06	88.16	77.59%
139	7.50	1.95	9.45	53.25	887.19	2.78E-06	97.95	83.96%	7.21	1.95	9.16	46.27	864.03	2.78E-06	88.72	78.09%
140	7.49	1.95	9.44	59.31	889.51	2.78E-06	98.22	83.97%	7.20	1.95	9.15	49.90	861.71	2.78E-06	87.86	77.53%
141	7.50	1.95	9.45	52.28	887.19	2.78E-06	97.10	83.23%	7.20	1.95	9.15	54.01	859.40	2.78E-06	88.42	78.24%

142	7.51	1.95	9.46	44.29	887.19	2.78E-06	97.38	83.47%	7.22	1.95	9.17	43.08	859.40	2.78E-06	87.59	77.51%
143	7.53	1.95	9.47	40.54	887.19	2.78E-06	97.65	83.70%	7.21	1.95	9.16	52.62	861.71	2.78E-06	87.85	77.53%
144	7.52	1.95	9.47	38.15	889.51	2.78E-06	97.09	83.01%	7.22	1.95	9.17	38.93	861.71	2.77E-06	87.89	77.57%
145	7.51	1.95	9.46	54.64	887.19	2.78E-06	97.37	83.47%	7.21	1.95	9.16	46.22	859.40	2.78E-06	88.15	78.00%
146	7.51	1.95	9.46	52.27	887.19	2.78E-06	97.94	83.95%	7.22	1.95	9.17	39.85	857.08	2.77E-06	87.89	77.99%
147	7.52	1.95	9.47	47.11	889.51	2.78E-06	97.09	83.00%	7.20	1.95	9.15	59.90	857.08	2.78E-06	88.41	78.45%
148	7.51	1.95	9.46	54.62	889.51	2.78E-06	96.53	82.52%	7.21	1.95	9.16	50.78	859.40	2.79E-06	87.54	77.46%
149	7.52	1.95	9.47	48.02	887.19	2.76E-06	95.40	81.77%	7.22	1.95	9.17	44.40	859.40	2.80E-06	86.66	76.68%
150	7.50	1.95	9.45	66.80	887.19	2.78E-06	96.80	82.98%	7.21	1.95	9.16	45.27	859.40	2.79E-06	86.40	76.46%
151	7.52	1.95	9.47	48.95	887.19	2.78E-06	96.80	82.98%	7.21	1.95	9.16	43.88	857.08	2.80E-06	86.65	76.89%
152	7.52	1.95	9.46	47.06	884.88	2.79E-06	97.65	83.92%	7.21	1.95	9.16	43.43	857.08	2.78E-06	87.28	77.44%
153	7.52	1.95	9.46	47.06	887.19	2.78E-06	97.37	83.46%	7.21	1.95	9.16	48.89	859.40	2.79E-06	86.97	76.96%
154	7.52	1.95	9.47	49.43	882.56	2.78E-06	96.80	83.41%	7.21	1.95	9.16	44.34	857.08	2.80E-06	87.79	77.89%
155	7.52	1.95	9.47	56.02	884.88	2.78E-06	96.80	83.19%	7.22	1.95	9.17	40.26	861.71	2.79E-06	86.97	76.75%
156	7.52	1.95	9.47	44.67	884.88	2.79E-06	96.51	82.95%	7.22	1.95	9.17	46.62	857.08	2.79E-06	86.96	77.16%
157	7.52	1.95	9.47	58.37	884.88	2.78E-06	97.08	83.43%	7.23	1.95	9.18	43.46	857.08	2.79E-06	86.96	77.16%
158	7.52	1.95	9.47	55.55	882.56	2.78E-06	97.07	83.65%	7.21	1.95	9.16	53.90	857.08	2.79E-06	86.96	77.16%
159	7.50	1.95	9.45	76.23	887.19	2.78E-06	97.07	83.21%	7.22	1.95	9.17	49.35	859.40	2.79E-06	87.52	77.45%

160	7.52	1.95	9.46	53.15	887.19	2.79E-06	97.08	83.21%	7.21	1.95	9.16	53.90	857.08	2.79E-06	87.52	77.66%
161	7.52	1.95	9.47	47.95	887.19	2.78E-06	97.36	83.45%	7.22	1.95	9.17	53.94	857.08	2.79E-06	86.96	77.16%
162	7.53	1.95	9.48	48.92	884.88	2.79E-06	97.07	83.43%	7.21	1.95	9.16	53.90	857.08	2.79E-06	87.52	77.66%
163	7.52	1.95	9.47	51.72	884.88	2.78E-06	96.22	82.70%	7.22	1.95	9.17	46.14	859.40	2.79E-06	86.96	76.95%
164	7.52	1.95	9.47	55.49	884.88	2.78E-06	96.22	82.70%	7.22	1.95	9.17	55.72	857.08	2.80E-06	86.08	76.37%
165	7.52	1.95	9.47	64.95	889.51	2.78E-06	96.22	82.27%	7.21	1.95	9.16	59.37	857.08	2.78E-06	86.14	76.43%
166	7.51	1.95	9.46	69.62	889.51	2.78E-06	96.79	82.75%	7.21	1.95	9.16	51.10	857.08	2.79E-06	86.95	77.15%
167	7.53	1.95	9.48	46.56	889.51	2.79E-06	97.63	83.47%	7.23	1.95	9.18	46.60	859.40	2.78E-06	86.70	76.72%
168	7.53	1.95	9.47	59.29	887.19	2.77E-06	96.78	82.95%	7.22	1.95	9.17	58.47	861.71	2.78E-06	87.26	77.01%
169	7.53	1.95	9.48	51.25	884.88	2.77E-06	96.21	82.69%	7.23	1.95	9.18	44.33	857.08	2.78E-06	86.70	76.92%
170	7.52	1.95	9.47	63.98	882.56	2.78E-06	96.22	82.91%	7.23	1.95	9.18	42.48	857.08	2.78E-06	86.44	76.70%
171	7.52	1.95	9.47	60.67	884.88	2.78E-06	97.06	83.41%	7.22	1.95	9.17	55.70	854.76	2.78E-06	86.13	76.63%
172	7.51	1.95	9.46	70.09	887.19	2.76E-06	96.49	82.71%	7.22	1.95	9.17	47.03	859.40	2.79E-06	87.51	77.44%
173	7.52	1.95	9.47	60.67	889.51	2.81E-06	97.63	83.47%	7.22	1.95	9.17	60.72	859.40	2.78E-06	87.00	76.99%
174	7.52	1.95	9.47	66.32	882.56	2.78E-06	96.21	82.90%	7.22	1.95	9.17	56.18	859.40	2.78E-06	88.13	77.98%
175	7.52	1.95	9.47	68.17	882.56	2.79E-06	95.93	82.66%	7.23	1.95	9.18	40.62	857.08	2.78E-06	87.56	77.69%
176	7.52	1.95	9.47	65.81	889.51	2.79E-06	95.36	81.53%	7.23	1.95	9.18	49.33	859.40	2.78E-06	87.00	76.98%
177	7.52	1.95	9.47	65.35	887.19	2.80E-06	97.34	83.44%	7.23	1.95	9.18	52.99	854.76	2.78E-06	85.88	76.40%

178	7.52	1.95	9.47	65.84	887.19	2.79E-06	97.06	83.19%	7.22	1.95	9.17	55.21	854.76	2.78E-06	85.87	76.40%
179	7.52	1.95	9.47	68.20	889.51	2.80E-06	97.34	83.22%	7.22	1.95	9.17	55.20	854.76	2.78E-06	85.87	76.40%
180	7.53	1.95	9.47	57.81	889.51	2.79E-06	97.06	82.98%	7.21	1.95	9.16	62.02	854.76	2.78E-06	86.43	76.90%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 10° (Data 3)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	6.53	1.95	8.48	8.06	850.13	2.78E-06	0.00	0.00%	4.63	1.95	6.58	11.85	843.18	2.78E-06	0.00	0.00%
1	6.19	1.95	8.14	-30.16	850.13	2.79E-06	32.92	29.45%	6.19	1.95	8.14	-16.30	854.76	2.80E-06	43.25	38.48%
2	6.42	1.95	8.36	-24.32	857.08	2.80E-06	52.92	46.95%	7.11	1.95	9.06	-29.95	857.08	2.82E-06	68.66	60.92%
3	6.58	1.95	8.52	-26.49	861.71	2.79E-06	62.40	55.07%	5.91	1.95	7.86	-27.96	864.03	2.79E-06	74.86	65.89%
4	6.70	1.95	8.65	-34.24	864.03	2.79E-06	66.36	58.41%	6.21	1.95	8.16	-19.69	861.71	2.82E-06	76.87	67.84%
5	6.79	1.95	8.74	-33.78	864.03	2.79E-06	69.19	60.89%	6.38	1.95	8.33	-25.99	868.66	2.79E-06	77.68	68.00%
6	6.86	1.95	8.81	-26.59	868.66	2.78E-06	71.59	62.68%	6.49	1.95	8.44	-13.69	866.35	2.78E-06	79.71	69.97%
7	6.92	1.95	8.87	-26.38	870.98	2.78E-06	74.41	64.97%	6.59	1.95	8.54	-23.25	868.66	2.78E-06	81.72	71.54%
8	6.98	1.95	8.93	-31.46	868.66	2.78E-06	77.45	67.80%	6.66	1.95	8.61	-26.07	868.66	2.78E-06	82.85	72.53%
9	7.02	1.95	8.97	-29.83	870.98	2.78E-06	79.70	69.59%	6.73	1.95	8.68	-34.11	868.66	2.78E-06	83.40	73.01%
10	7.07	1.95	9.02	-39.04	870.98	2.78E-06	81.39	71.07%	6.77	1.95	8.72	-22.96	868.66	2.78E-06	84.77	74.21%
11	7.10	1.95	9.05	-34.66	870.98	2.78E-06	83.08	72.54%	6.81	1.95	8.76	-23.51	870.98	2.77E-06	85.96	75.05%
12	7.12	1.95	9.07	-28.41	870.98	2.78E-06	84.21	73.52%	6.85	1.95	8.80	-28.47	868.66	2.78E-06	86.77	75.96%
13	7.15	1.95	9.10	-34.43	873.30	2.78E-06	86.21	75.07%	6.87	1.95	8.82	-23.27	868.66	2.78E-06	86.77	75.96%
14	7.17	1.95	9.12	-29.50	870.98	2.78E-06	87.59	76.48%	6.91	1.95	8.86	-31.36	870.98	2.77E-06	87.63	76.51%
15	7.20	1.95	9.14	-37.84	870.98	2.78E-06	87.89	76.74%	6.93	1.95	8.88	-28.35	870.98	2.78E-06	87.58	76.47%

16	7.22	1.95	9.17	-43.95	873.30	2.78E-06	89.28	77.74%	6.96	1.95	8.91	-34.27	870.98	2.78E-06	88.71	77.45%
17	7.23	1.95	9.18	-32.06	870.98	2.77E-06	89.31	77.98%	6.97	1.95	8.92	-24.51	873.30	2.78E-06	89.01	77.51%
18	7.23	1.95	9.18	-30.26	870.98	2.78E-06	90.13	78.70%	6.98	1.95	8.93	-20.08	870.98	2.78E-06	89.00	77.71%
19	7.25	1.95	9.20	-28.02	873.30	2.77E-06	90.99	79.23%	6.99	1.95	8.94	-22.35	870.98	2.79E-06	90.09	78.66%
20	7.26	1.95	9.20	-26.70	873.30	2.79E-06	92.35	80.42%	7.02	1.95	8.97	-29.62	870.98	2.78E-06	90.39	78.92%
21	7.26	1.95	9.21	-24.90	873.30	2.79E-06	92.35	80.42%	7.03	1.95	8.98	-35.52	873.30	2.79E-06	90.65	78.94%
22	7.29	1.95	9.23	-36.99	873.30	2.80E-06	92.61	80.65%	7.04	1.95	8.99	-23.87	870.98	2.79E-06	91.21	79.64%
23	7.28	1.95	9.23	-23.62	873.30	2.81E-06	93.45	81.37%	7.05	1.95	9.00	-26.65	873.30	2.78E-06	90.94	79.19%
24	7.30	1.95	9.25	-25.55	873.30	2.79E-06	92.90	80.90%	7.05	1.95	9.00	-23.98	870.98	2.79E-06	90.64	79.14%
25	7.31	1.95	9.26	-23.73	870.98	2.81E-06	94.01	82.08%	7.06	1.95	9.01	-24.91	870.98	2.78E-06	90.37	78.90%
26	7.31	1.95	9.26	-21.44	870.98	2.79E-06	94.03	82.10%	7.06	1.95	9.01	-21.34	870.98	2.79E-06	90.63	79.13%
27	7.32	1.95	9.27	-28.43	873.30	2.80E-06	94.30	82.11%	7.06	1.95	9.01	-16.40	870.98	2.79E-06	91.19	79.62%
28	7.32	1.95	9.27	-21.05	870.98	2.79E-06	94.59	82.58%	7.07	1.95	9.02	-20.05	868.66	2.79E-06	91.19	79.83%
29	7.33	1.95	9.28	-20.16	873.30	2.80E-06	95.42	83.10%	7.08	1.95	9.03	-17.37	870.98	2.78E-06	90.92	79.39%
30	7.33	1.95	9.28	-19.73	870.98	2.78E-06	94.30	82.34%	7.10	1.95	9.05	-26.48	873.30	2.79E-06	91.18	79.40%
31	7.33	1.95	9.28	-18.36	870.98	2.80E-06	95.42	83.31%	7.09	1.95	9.04	-16.09	870.98	2.79E-06	91.18	79.61%
32	7.34	1.95	9.29	-20.25	870.98	2.78E-06	94.86	82.82%	7.09	1.95	9.04	-16.12	868.66	2.78E-06	90.91	79.59%
33	7.34	1.95	9.29	-17.93	870.98	2.82E-06	96.54	84.29%	7.10	1.95	9.05	-20.21	868.66	2.78E-06	90.91	79.59%

34	7.34	1.95	9.29	-11.91	870.98	2.80E-06	95.98	83.80%	7.09	1.95	9.04	-13.43	868.66	2.79E-06	91.74	80.31%
35	7.36	1.95	9.31	-28.26	870.98	2.82E-06	96.53	84.28%	7.10	1.95	9.05	-12.56	868.66	2.80E-06	92.00	80.54%
36	7.35	1.95	9.30	-13.39	870.98	2.78E-06	95.13	83.06%	7.11	1.95	9.06	-10.77	868.66	2.79E-06	91.73	80.31%
37	7.35	1.95	9.30	-6.43	875.61	2.77E-06	95.97	83.35%	7.11	1.95	9.06	-16.24	868.66	2.81E-06	92.26	80.77%
38	7.37	1.95	9.31	-18.57	887.19	2.77E-06	95.96	82.26%	7.12	1.95	9.07	-19.93	870.98	2.80E-06	90.85	79.33%
39	7.37	1.95	9.31	-19.05	898.78	2.77E-06	96.52	81.67%	7.12	1.95	9.07	-9.52	868.66	2.80E-06	90.85	79.53%
40	7.36	1.95	9.31	-7.41	875.61	2.76E-06	96.24	83.58%	7.13	1.95	9.08	-23.61	868.66	2.80E-06	91.41	80.03%
41	7.36	1.95	9.30	-7.91	875.61	2.78E-06	96.24	83.58%	7.11	1.95	9.06	7.21	866.35	2.79E-06	91.14	80.01%
42	7.37	1.95	9.32	-17.26	875.61	2.78E-06	97.64	84.80%	7.11	1.95	9.06	-4.58	866.35	2.81E-06	91.10	79.97%
43	7.37	1.95	9.32	-16.36	875.61	2.80E-06	97.08	84.31%	7.12	1.95	9.07	-10.50	866.35	2.82E-06	91.94	80.70%
44	7.36	1.95	9.31	-0.08	877.93	2.80E-06	96.51	83.59%	7.13	1.95	9.08	-5.98	866.35	2.80E-06	91.40	80.23%
45	7.38	1.95	9.33	-20.17	877.93	2.79E-06	96.78	83.84%	7.13	1.95	9.08	-10.99	866.35	2.81E-06	91.10	79.96%
46	7.38	1.95	9.33	-10.86	875.61	2.80E-06	96.50	83.81%	7.13	1.95	9.08	-15.54	868.66	2.82E-06	92.50	80.98%
47	7.38	1.95	9.33	-12.27	875.61	2.79E-06	97.34	84.54%	7.14	1.95	9.09	-11.96	866.35	2.78E-06	91.43	80.25%
48	7.37	1.95	9.32	-3.89	875.61	2.79E-06	97.34	84.54%	7.14	1.95	9.09	-7.43	866.35	2.78E-06	91.42	80.25%
49	7.39	1.95	9.34	-6.27	875.61	2.79E-06	96.77	84.04%	7.14	1.95	9.09	-8.36	866.35	2.78E-06	91.42	80.25%
50	7.39	1.95	9.34	-4.42	873.30	2.79E-06	96.77	84.26%	7.14	1.95	9.09	2.52	866.35	2.80E-06	91.38	80.22%
51	7.39	1.95	9.34	-2.10	870.98	2.81E-06	97.90	85.48%	7.15	1.95	9.10	-0.22	866.35	2.79E-06	91.68	80.48%

52	7.38	1.95	9.33	3.48	870.98	2.79E-06	96.76	84.48%	7.15	1.95	9.10	-3.86	866.35	2.79E-06	92.24	80.97%
53	7.38	1.95	9.33	0.66	873.30	2.78E-06	97.04	84.50%	7.15	1.95	9.10	0.66	866.35	2.79E-06	91.68	80.47%
54	7.38	1.95	9.33	3.44	870.98	2.79E-06	97.32	84.97%	7.15	1.95	9.10	-3.91	866.35	2.78E-06	91.41	80.23%
55	7.39	1.95	9.34	-4.05	873.30	2.78E-06	96.47	84.00%	7.16	1.95	9.11	-4.38	866.35	2.79E-06	91.67	80.47%
56	7.40	1.95	9.35	-6.91	870.98	2.79E-06	95.61	83.48%	7.15	1.95	9.10	2.42	866.35	2.79E-06	91.10	79.97%
57	7.39	1.95	9.34	4.76	870.98	2.79E-06	96.74	84.47%	7.16	1.95	9.11	-2.62	866.35	2.79E-06	91.10	79.96%
58	7.39	1.95	9.34	2.42	870.98	2.82E-06	97.59	85.20%	7.16	1.95	9.11	1.00	866.35	2.79E-06	90.53	79.46%
59	7.40	1.95	9.35	-1.80	873.30	2.79E-06	97.30	84.73%	7.17	1.95	9.12	-2.20	861.71	2.79E-06	91.09	80.39%
60	7.39	1.95	9.33	12.64	870.98	2.80E-06	96.45	84.21%	7.14	1.95	9.09	15.08	866.35	2.79E-06	91.66	80.45%
61	7.39	1.95	9.34	6.09	873.30	2.79E-06	96.73	84.23%	7.15	1.95	9.10	2.34	861.71	2.79E-06	91.65	80.88%
62	7.41	1.95	9.35	2.79	870.98	2.79E-06	96.16	83.96%	7.17	1.95	9.12	-2.24	864.03	2.79E-06	91.08	80.17%
63	7.40	1.95	9.35	3.25	870.98	2.78E-06	96.44	84.20%	7.17	1.95	9.12	-0.44	859.40	2.78E-06	90.25	79.86%
64	7.41	1.95	9.36	1.36	870.98	2.78E-06	95.59	83.46%	7.17	1.95	9.12	7.28	859.40	2.79E-06	89.95	79.59%
65	7.41	1.95	9.35	9.77	870.98	2.78E-06	97.00	84.69%	7.17	1.95	9.12	6.81	861.71	2.78E-06	90.24	79.64%
66	7.41	1.95	9.36	-1.47	873.30	2.79E-06	97.28	84.71%	7.18	1.95	9.13	-3.24	866.35	2.80E-06	90.77	79.68%
67	7.41	1.95	9.35	11.12	870.98	2.78E-06	96.43	84.19%	7.17	1.95	9.12	2.21	859.40	2.79E-06	90.50	80.08%
68	7.43	1.95	9.38	-5.29	873.30	2.80E-06	96.42	83.96%	7.16	1.95	9.11	9.50	861.71	2.78E-06	90.54	79.90%
69	7.42	1.95	9.36	12.96	870.98	2.80E-06	96.42	84.18%	7.16	1.95	9.11	12.21	866.35	2.78E-06	90.23	79.21%

70	7.42	1.95	9.36	11.55	870.98	2.80E-06	96.41	84.18%	7.17	1.95	9.12	14.47	861.71	2.79E-06	89.93	79.36%
71	7.42	1.95	9.37	4.06	870.98	2.79E-06	96.70	84.43%	7.17	1.95	9.12	14.44	861.71	2.80E-06	90.75	80.09%
72	7.42	1.95	9.37	8.27	870.98	2.78E-06	96.98	84.67%	7.17	1.95	9.12	19.89	859.40	2.80E-06	90.18	79.80%
73	7.42	1.95	9.36	13.38	870.98	2.78E-06	96.41	84.18%	7.17	1.95	9.12	12.58	859.40	2.78E-06	90.22	79.83%
74	7.42	1.95	9.37	13.82	870.98	2.79E-06	95.56	83.43%	7.16	1.95	9.11	21.69	864.03	2.78E-06	90.22	79.41%
75	7.43	1.95	9.38	8.66	870.98	2.79E-06	96.12	83.92%	7.17	1.95	9.12	12.59	861.71	2.78E-06	90.52	79.88%
76	7.41	1.95	9.36	20.33	870.98	2.78E-06	95.84	83.68%	7.17	1.95	9.12	13.93	861.71	2.79E-06	89.91	79.35%
77	7.42	1.95	9.37	12.38	870.98	2.79E-06	96.68	84.41%	7.18	1.95	9.13	6.61	861.71	2.78E-06	90.21	79.61%
78	7.41	1.95	9.36	21.26	870.98	2.78E-06	96.96	84.66%	7.18	1.95	9.13	14.80	861.71	2.78E-06	89.64	79.11%
79	7.41	1.95	9.36	23.11	870.98	2.80E-06	96.39	84.16%	7.18	1.95	9.13	7.95	864.03	2.78E-06	89.38	78.67%
80	7.44	1.95	9.39	2.49	868.66	2.82E-06	96.38	84.37%	7.17	1.95	9.12	20.25	864.03	2.78E-06	90.20	79.39%
81	7.43	1.95	9.38	11.85	868.66	2.82E-06	95.81	83.87%	7.18	1.95	9.13	16.15	864.03	2.79E-06	90.47	79.62%
82	7.42	1.95	9.37	22.58	866.35	2.79E-06	94.97	83.36%	7.18	1.95	9.13	17.50	861.71	2.78E-06	90.20	79.60%
83	7.42	1.95	9.37	27.25	866.35	2.80E-06	96.38	84.60%	7.17	1.95	9.12	19.75	861.71	2.79E-06	89.90	79.34%
84	7.43	1.95	9.38	20.24	866.35	2.77E-06	95.82	84.11%	7.18	1.95	9.13	15.64	861.71	2.78E-06	90.20	79.60%
85	7.42	1.95	9.37	31.44	866.35	2.78E-06	95.53	83.86%	7.19	1.95	9.14	4.23	861.71	2.78E-06	91.88	81.09%
86	7.41	1.95	9.36	30.95	866.35	2.78E-06	95.81	84.10%	7.18	1.95	9.13	21.99	864.03	2.78E-06	89.93	79.15%
87	7.44	1.95	9.39	14.10	864.03	2.78E-06	95.81	84.32%	7.18	1.95	9.13	14.24	861.71	2.78E-06	89.92	79.36%

88	7.42	1.95	9.37	27.66	866.35	2.77E-06	95.25	83.61%	7.18	1.95	9.13	24.71	864.03	2.77E-06	89.66	78.91%
89	7.42	1.95	9.37	34.19	866.35	2.79E-06	96.65	84.84%	7.20	1.95	9.15	9.19	861.71	2.78E-06	89.92	79.36%
90	7.43	1.95	9.37	26.71	864.03	2.76E-06	95.52	84.07%	7.19	1.95	9.14	17.39	868.66	2.77E-06	89.09	78.00%
91	7.42	1.95	9.37	31.84	866.35	2.78E-06	96.08	84.34%	7.18	1.95	9.13	27.85	861.71	2.79E-06	89.87	79.31%
92	7.43	1.95	9.37	26.21	866.35	2.79E-06	96.08	84.33%	7.19	1.95	9.14	24.67	861.71	2.77E-06	89.09	78.62%
93	7.43	1.95	9.38	29.96	864.03	2.78E-06	94.95	83.57%	7.19	1.95	9.14	24.67	861.71	2.78E-06	90.17	79.58%
94	7.45	1.95	9.39	22.92	866.35	2.78E-06	94.39	82.85%	7.21	1.95	9.16	15.08	861.71	2.78E-06	89.61	79.08%
95	7.43	1.95	9.38	36.50	866.35	2.78E-06	95.79	84.08%	7.20	1.95	9.15	21.92	859.40	2.77E-06	89.08	78.83%
96	7.43	1.95	9.38	37.42	866.35	2.79E-06	95.50	83.83%	7.20	1.95	9.15	25.56	861.71	2.76E-06	88.26	77.89%
97	7.44	1.95	9.39	28.05	868.66	2.76E-06	94.38	82.63%	7.19	1.95	9.14	34.66	861.71	2.78E-06	89.34	78.84%
98	7.45	1.95	9.39	21.48	866.35	2.77E-06	95.22	83.58%	7.21	1.95	9.16	17.32	861.71	2.79E-06	90.43	79.80%
99	7.45	1.95	9.40	23.80	868.66	2.78E-06	94.94	83.11%	7.20	1.95	9.15	31.00	859.40	2.80E-06	89.56	79.25%
100	7.44	1.95	9.39	31.76	866.35	2.78E-06	95.21	83.58%	7.19	1.95	9.14	32.81	859.40	2.79E-06	89.29	79.02%
101	7.44	1.95	9.39	37.84	868.66	2.80E-06	95.20	83.34%	7.20	1.95	9.15	27.34	861.71	2.79E-06	89.29	78.80%
102	7.43	1.95	9.38	43.91	868.66	2.79E-06	94.92	83.10%	7.20	1.95	9.15	23.68	857.08	2.79E-06	89.86	79.73%
103	7.44	1.95	9.39	31.74	868.66	2.78E-06	95.21	83.35%	7.19	1.95	9.14	32.76	857.08	2.79E-06	89.29	79.22%
104	7.44	1.95	9.39	34.54	866.35	2.80E-06	96.33	84.56%	7.20	1.95	9.15	25.92	861.71	2.78E-06	88.46	78.07%
105	7.45	1.95	9.39	28.90	866.35	2.79E-06	94.92	83.32%	7.19	1.95	9.14	36.41	861.71	2.79E-06	89.28	78.79%

106	7.45	1.95	9.39	30.76	868.66	2.79E-06	94.92	83.09%	7.20	1.95	9.15	33.20	861.71	2.81E-06	89.23	78.75%
107	7.45	1.95	9.40	34.51	866.35	2.81E-06	95.47	83.80%	7.20	1.95	9.15	35.49	861.71	2.78E-06	88.46	78.07%
108	7.44	1.95	9.39	40.12	866.35	2.78E-06	94.64	83.07%	7.21	1.95	9.16	19.06	861.71	2.78E-06	89.02	78.56%
109	7.44	1.95	9.39	42.90	866.35	2.78E-06	98.84	86.76%	7.21	1.95	9.16	25.43	861.71	2.79E-06	88.71	78.29%
110	7.45	1.95	9.40	36.36	866.35	2.82E-06	97.44	85.54%	7.21	1.95	9.16	30.90	864.03	2.79E-06	89.27	78.57%
111	7.45	1.95	9.40	27.90	864.03	2.79E-06	96.03	84.52%	7.21	1.95	9.16	27.24	861.71	2.78E-06	89.01	78.55%
112	7.46	1.95	9.41	21.34	866.35	2.79E-06	95.47	83.80%	7.20	1.95	9.15	34.53	861.71	2.78E-06	88.45	78.06%
113	7.45	1.95	9.39	45.68	866.35	2.79E-06	94.90	83.30%	7.21	1.95	9.16	32.26	859.40	2.78E-06	89.01	78.77%
114	7.45	1.95	9.40	41.00	866.35	2.79E-06	95.46	83.79%	7.21	1.95	9.16	34.07	861.71	2.78E-06	89.01	78.55%
115	7.45	1.95	9.40	41.92	866.35	2.79E-06	95.46	83.79%	7.21	1.95	9.16	34.96	857.08	2.80E-06	88.96	78.93%
116	7.44	1.95	9.39	48.93	870.98	2.80E-06	95.73	83.59%	7.20	1.95	9.15	36.32	866.35	2.78E-06	88.44	77.63%
117	7.45	1.95	9.40	43.80	868.66	2.81E-06	96.58	84.55%	7.22	1.95	9.17	33.60	864.03	2.78E-06	89.00	78.33%
118	7.46	1.95	9.40	36.28	866.35	2.80E-06	95.17	83.54%	7.21	1.95	9.16	37.70	866.35	2.78E-06	88.18	77.40%
119	7.47	1.95	9.41	33.01	866.35	2.79E-06	94.89	83.29%	7.20	1.95	9.15	40.88	866.35	2.79E-06	89.82	78.85%
120	7.46	1.95	9.41	41.90	866.35	2.80E-06	95.16	83.53%	7.21	1.95	9.16	40.43	864.03	2.78E-06	88.74	78.10%
121	7.45	1.95	9.40	45.64	868.66	2.79E-06	95.45	83.56%	7.22	1.95	9.17	34.95	864.03	2.78E-06	88.17	77.61%
122	7.46	1.95	9.41	42.83	866.35	2.81E-06	96.00	84.27%	7.21	1.95	9.16	42.69	864.03	2.78E-06	88.43	77.83%
123	7.45	1.95	9.40	50.78	866.35	2.78E-06	95.17	83.54%	7.21	1.95	9.16	39.94	864.03	2.78E-06	88.99	78.32%

124	7.47	1.95	9.42	37.64	866.35	2.79E-06	93.75	82.29%	7.21	1.95	9.16	41.76	866.35	2.78E-06	89.29	78.38%
125	7.48	1.95	9.42	34.84	868.66	2.80E-06	94.58	82.80%	7.22	1.95	9.17	37.20	864.03	2.77E-06	89.03	78.36%
126	7.46	1.95	9.41	48.89	866.35	2.80E-06	94.58	83.03%	7.21	1.95	9.16	36.72	861.71	2.78E-06	89.29	78.80%
127	7.47	1.95	9.42	43.75	864.03	2.80E-06	94.58	83.25%	7.23	1.95	9.18	25.75	866.35	2.78E-06	88.42	77.62%
128	7.46	1.95	9.41	47.50	868.66	2.80E-06	95.15	83.30%	7.22	1.95	9.17	45.88	866.35	2.78E-06	88.16	77.39%
129	7.46	1.95	9.41	45.60	866.35	2.80E-06	95.15	83.52%	7.24	1.95	9.19	33.07	864.03	2.78E-06	87.85	77.32%
130	7.46	1.95	9.41	49.81	864.03	2.82E-06	95.41	83.97%	7.23	1.95	9.18	40.37	868.66	2.78E-06	87.03	76.19%
131	7.46	1.95	9.41	43.21	868.66	2.79E-06	94.30	82.56%	7.22	1.95	9.17	46.75	866.35	2.78E-06	87.29	76.62%
132	7.46	1.95	9.41	46.95	866.35	2.81E-06	94.28	82.76%	7.22	1.95	9.17	47.68	866.35	2.76E-06	87.08	76.44%
133	7.46	1.95	9.41	51.65	866.35	2.79E-06	94.86	83.27%	7.21	1.95	9.16	52.22	866.35	2.78E-06	87.85	77.11%
134	7.46	1.95	9.41	49.30	866.35	2.78E-06	93.75	82.29%	7.20	1.95	9.15	49.41	864.03	2.78E-06	87.59	77.09%
135	7.46	1.95	9.41	48.36	866.35	2.79E-06	94.86	83.27%	7.22	1.95	9.17	43.97	866.35	2.78E-06	87.85	77.11%
136	7.45	1.95	9.40	56.77	868.66	2.77E-06	94.03	82.32%	7.21	1.95	9.16	46.71	866.35	2.78E-06	88.15	77.38%
137	7.46	1.95	9.40	45.97	868.66	2.79E-06	95.42	83.54%	7.23	1.95	9.18	37.14	864.03	2.78E-06	88.71	78.08%
138	7.47	1.95	9.42	37.07	866.35	2.77E-06	93.46	82.04%	7.23	1.95	9.18	44.45	866.35	2.78E-06	87.59	76.88%
139	7.46	1.95	9.41	46.90	868.66	2.78E-06	94.01	82.30%	7.23	1.95	9.18	42.62	864.03	2.78E-06	87.58	77.09%
140	7.47	1.95	9.42	48.83	868.66	2.79E-06	94.29	82.54%	7.23	1.95	9.18	45.34	866.35	2.78E-06	87.58	76.88%
141	7.47	1.95	9.42	46.95	868.66	2.79E-06	94.85	83.04%	7.22	1.95	9.17	50.83	864.03	2.78E-06	88.97	78.30%

142	7.46	1.95	9.41	56.77	868.66	2.79E-06	94.85	83.04%	7.22	1.95	9.17	51.72	864.03	2.78E-06	88.14	77.58%
143	7.47	1.95	9.42	51.63	866.35	2.79E-06	94.85	83.26%	7.23	1.95	9.18	44.90	861.71	2.76E-06	87.63	77.33%
144	7.47	1.95	9.42	54.44	866.35	2.80E-06	94.56	83.00%	7.23	1.95	9.18	45.79	866.35	2.79E-06	86.97	76.34%
145	7.47	1.95	9.42	56.32	866.35	2.78E-06	94.57	83.01%	7.23	1.95	9.18	42.13	866.35	2.78E-06	87.84	77.10%
146	7.47	1.95	9.42	51.62	868.66	2.79E-06	94.84	83.03%	7.23	1.95	9.18	50.37	864.03	2.80E-06	88.35	77.76%
147	7.47	1.95	9.42	58.18	866.35	2.79E-06	95.41	83.75%	7.24	1.95	9.19	38.92	861.71	2.78E-06	87.01	76.79%
148	7.47	1.95	9.42	58.64	866.35	2.79E-06	94.84	83.25%	7.23	1.95	9.18	46.22	864.03	2.80E-06	87.78	77.26%
149	7.48	1.95	9.43	46.92	866.35	2.80E-06	94.55	82.99%	7.23	1.95	9.18	48.50	861.71	2.78E-06	88.40	78.01%
150	7.49	1.95	9.44	42.70	866.35	2.78E-06	93.16	81.78%	7.22	1.95	9.17	52.61	861.71	2.78E-06	87.83	77.51%
151	7.49	1.95	9.43	51.62	866.35	2.78E-06	93.43	82.01%	7.24	1.95	9.19	34.31	861.71	2.78E-06	87.27	77.01%
152	7.47	1.95	9.42	57.20	866.35	2.78E-06	94.56	83.00%	7.23	1.95	9.18	49.86	861.71	2.79E-06	86.95	76.74%
153	7.47	1.95	9.42	59.09	866.35	2.78E-06	95.12	83.49%	7.23	1.95	9.18	50.28	864.03	2.78E-06	86.70	76.31%
154	7.48	1.95	9.43	53.00	866.35	2.78E-06	94.55	83.00%	7.23	1.95	9.18	47.52	861.71	2.79E-06	86.95	76.74%
155	7.49	1.95	9.44	47.83	868.66	2.79E-06	94.27	82.53%	7.23	1.95	9.18	45.27	861.71	2.79E-06	88.08	77.73%
156	7.50	1.95	9.44	42.67	866.35	2.79E-06	94.26	82.74%	7.22	1.95	9.17	57.58	861.71	2.79E-06	87.52	77.23%
157	7.48	1.95	9.42	60.94	866.35	2.79E-06	94.26	82.74%	7.24	1.95	9.19	36.56	864.03	2.78E-06	87.26	76.80%
158	7.49	1.95	9.44	47.83	866.35	2.79E-06	94.26	82.74%	7.22	1.95	9.17	53.90	861.71	2.81E-06	88.02	77.68%
159	7.47	1.95	9.42	61.87	868.66	2.79E-06	94.83	83.02%	7.23	1.95	9.18	57.13	861.71	2.78E-06	87.26	77.00%

160	7.48	1.95	9.43	49.20	868.66	2.78E-06	94.55	82.77%	7.23	1.95	9.18	53.01	861.71	2.79E-06	87.51	77.23%
161	7.48	1.95	9.43	59.99	866.35	2.79E-06	94.82	83.23%	7.23	1.95	9.18	49.37	861.71	2.78E-06	87.82	77.50%
162	7.48	1.95	9.43	57.64	866.35	2.78E-06	94.54	82.99%	7.22	1.95	9.17	55.72	861.71	2.78E-06	87.82	77.50%
163	7.48	1.95	9.43	59.05	866.35	2.78E-06	94.54	82.99%	7.22	1.95	9.17	58.45	864.03	2.79E-06	87.51	77.02%
164	7.48	1.95	9.43	63.28	866.35	2.78E-06	95.11	83.48%	7.23	1.95	9.18	46.13	866.35	2.79E-06	86.94	76.32%
165	7.48	1.95	9.43	57.17	866.35	2.78E-06	95.11	83.48%	7.23	1.95	9.18	52.06	866.35	2.79E-06	86.94	76.32%
166	7.49	1.95	9.44	51.56	870.98	2.79E-06	94.25	82.29%	7.24	1.95	9.19	42.44	866.35	2.78E-06	86.69	76.09%
167	7.49	1.95	9.44	56.24	866.35	2.80E-06	94.53	82.97%	7.23	1.95	9.18	50.22	868.66	2.78E-06	86.43	75.67%
168	7.49	1.95	9.44	54.84	866.35	2.78E-06	94.26	82.74%	7.22	1.95	9.17	59.34	868.66	2.78E-06	86.99	76.16%
169	7.48	1.95	9.43	63.73	868.66	2.78E-06	94.54	82.76%	7.22	1.95	9.17	58.89	866.35	2.78E-06	87.81	77.08%
170	7.49	1.95	9.44	60.95	866.35	2.78E-06	94.54	82.98%	7.23	1.95	9.18	49.30	866.35	2.79E-06	87.50	76.81%
171	7.48	1.95	9.43	67.51	866.35	2.78E-06	94.82	83.23%	7.23	1.95	9.18	52.05	866.35	2.78E-06	86.12	75.60%
172	7.50	1.95	9.45	52.97	868.66	2.78E-06	94.26	82.52%	7.22	1.95	9.17	62.06	866.35	2.78E-06	86.99	76.36%
173	7.49	1.95	9.44	62.79	866.35	2.78E-06	93.97	82.48%	7.23	1.95	9.18	55.25	870.98	2.78E-06	86.99	75.95%
174	7.49	1.95	9.44	61.38	866.35	2.77E-06	93.98	82.49%	7.22	1.95	9.17	61.16	868.66	2.78E-06	87.55	76.65%
175	7.48	1.95	9.43	73.15	866.35	2.78E-06	94.82	83.23%	7.23	1.95	9.18	64.38	866.35	2.78E-06	87.24	76.58%
176	7.49	1.95	9.44	62.81	866.35	2.78E-06	95.66	83.97%	7.24	1.95	9.19	54.35	866.35	2.78E-06	87.55	76.85%
177	7.49	1.95	9.43	66.54	866.35	2.78E-06	94.53	82.97%	7.24	1.95	9.19	54.80	866.35	2.77E-06	86.73	76.13%

178	7.49	1.95	9.44	63.25	866.35	2.79E-06	94.80	83.22%	7.24	1.95	9.19	57.53	870.98	2.78E-06	86.42	75.46%
179	7.49	1.95	9.44	68.43	868.66	2.79E-06	94.24	82.50%	7.25	1.95	9.20	47.03	866.35	2.78E-06	86.42	75.86%
180	7.49	1.95	9.44	63.27	868.66	2.78E-06	94.53	82.75%	7.24	1.95	9.19	57.09	870.98	2.78E-06	86.42	75.45%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 30° (Data 1)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	5.75	1.95	7.70	6.95	864.70	2.80E-06	0.00	0.00%	4.81	1.95	6.76	8.11	833.92	2.81E-06	0.00	0.00%
1	5.87	1.95	7.82	-16.44	864.70	2.78E-06	32.26	28.37%	7.84	1.95	9.79	-28.47	838.55	2.81E-06	34.82	31.58%
2	6.11	1.95	8.05	-25.82	864.70	2.77E-06	46.68	41.06%	5.34	1.95	7.29	-23.41	840.87	2.81E-06	57.63	52.12%
3	6.27	1.95	8.22	-32.13	864.70	2.77E-06	53.42	46.98%	5.85	1.95	7.80	-11.02	843.18	2.82E-06	64.08	57.79%
4	6.38	1.95	8.33	-33.43	864.70	2.78E-06	57.69	50.74%	6.09	1.95	8.04	-16.20	847.82	2.79E-06	65.22	58.50%
5	6.48	1.95	8.42	-35.12	864.70	2.78E-06	59.94	52.72%	6.25	1.95	8.20	-30.47	850.13	2.81E-06	67.31	60.21%
6	6.55	1.95	8.50	-29.92	867.02	2.78E-06	62.20	54.56%	6.36	1.95	8.31	-28.03	852.45	2.79E-06	68.05	60.71%
7	6.60	1.95	8.55	-25.42	867.02	2.79E-06	65.21	57.20%	6.45	1.95	8.40	-30.45	852.45	2.77E-06	68.01	60.67%
8	6.66	1.95	8.61	-27.75	871.65	2.79E-06	67.48	58.87%	6.50	1.95	8.45	-21.78	854.76	2.76E-06	69.49	61.82%
9	6.70	1.95	8.65	-26.18	869.33	2.79E-06	68.61	60.02%	6.55	1.95	8.50	-23.19	857.08	2.78E-06	71.02	63.02%
10	6.74	1.95	8.69	-27.18	873.97	2.79E-06	70.87	61.67%	6.60	1.95	8.55	-28.03	857.08	2.77E-06	71.93	63.83%
11	6.77	1.95	8.72	-32.53	873.97	2.80E-06	71.64	62.34%	6.63	1.95	8.58	-26.46	859.40	2.76E-06	72.28	63.96%
12	6.80	1.95	8.75	-37.93	873.97	2.79E-06	73.13	63.63%	6.67	1.95	8.62	-24.85	859.40	2.78E-06	73.27	64.83%
13	6.83	1.95	8.78	-34.51	876.28	2.79E-06	74.83	64.94%	6.70	1.95	8.65	-30.57	859.40	2.80E-06	75.05	66.41%
14	6.86	1.95	8.80	-36.84	876.28	2.79E-06	75.39	65.43%	6.71	1.95	8.66	-25.44	861.71	2.82E-06	75.48	66.61%
15	6.87	1.95	8.82	-30.29	876.28	2.78E-06	76.87	66.71%	6.74	1.95	8.69	-30.31	864.03	2.81E-06	75.83	66.74%

16	6.88	1.95	8.83	-26.38	876.28	2.79E-06	76.52	66.41%	6.76	1.95	8.71	-30.39	864.03	2.82E-06	76.27	67.12%
17	6.91	1.95	8.86	-42.00	880.91	2.79E-06	77.08	66.54%	6.76	1.95	8.71	-28.70	864.03	2.82E-06	76.84	67.63%
18	6.92	1.95	8.87	-32.34	880.91	2.80E-06	77.87	67.23%	6.78	1.95	8.73	-24.83	864.03	2.82E-06	77.41	68.13%
19	6.93	1.95	8.88	-33.25	878.60	2.79E-06	79.35	68.68%	6.79	1.95	8.74	-20.94	864.03	2.82E-06	77.98	68.63%
20	6.94	1.95	8.89	-34.21	876.28	2.80E-06	80.71	70.04%	6.80	1.95	8.75	-19.23	864.03	2.80E-06	77.87	68.54%
21	6.95	1.95	8.90	-34.22	876.28	2.77E-06	80.33	69.71%	6.82	1.95	8.77	-29.81	864.03	2.78E-06	77.41	68.13%
22	6.95	1.95	8.90	-29.81	883.23	2.78E-06	80.80	69.57%	6.83	1.95	8.78	-26.80	866.35	2.78E-06	76.84	67.45%
23	6.96	1.95	8.91	-28.54	883.23	2.78E-06	80.23	69.08%	6.84	1.95	8.79	-27.73	861.71	2.76E-06	76.17	67.22%
24	6.97	1.95	8.92	-33.51	883.23	2.79E-06	80.46	69.28%	6.84	1.95	8.79	-22.48	866.35	2.78E-06	76.84	67.45%
25	6.98	1.95	8.93	-27.32	880.91	2.77E-06	80.88	69.82%	6.84	1.95	8.79	-26.47	866.35	2.78E-06	77.74	68.24%
26	6.99	1.95	8.94	-31.83	878.60	2.78E-06	81.67	70.69%	6.86	1.95	8.81	-29.19	866.35	2.78E-06	77.96	68.44%
27	6.99	1.95	8.94	-27.39	883.23	2.76E-06	81.19	69.91%	6.87	1.95	8.82	-27.02	866.35	2.78E-06	78.86	69.22%
28	6.98	1.95	8.93	-11.72	883.23	2.78E-06	83.60	71.98%	6.87	1.95	8.82	-29.69	866.35	2.79E-06	78.75	69.13%
29	6.99	1.95	8.94	-18.45	883.23	2.79E-06	83.85	72.19%	6.88	1.95	8.83	-22.24	866.35	2.79E-06	78.75	69.12%
30	7.00	1.95	8.95	-27.00	883.23	2.79E-06	83.84	72.19%	6.88	1.95	8.83	-24.49	866.35	2.79E-06	78.18	68.62%
31	7.00	1.95	8.95	-26.16	878.60	2.78E-06	82.22	71.17%	6.89	1.95	8.84	-26.73	866.35	2.79E-06	78.74	69.12%
32	7.02	1.95	8.96	-25.31	880.91	2.78E-06	83.59	72.16%	6.90	1.95	8.85	-27.22	866.35	2.80E-06	78.97	69.32%
33	7.02	1.95	8.96	-25.80	878.60	2.78E-06	83.02	71.86%	6.89	1.95	8.84	-21.47	866.35	2.82E-06	79.66	69.92%

34	7.02	1.95	8.97	-29.40	876.28	2.78E-06	83.34	72.33%	6.89	1.95	8.84	-13.96	866.35	2.82E-06	79.65	69.92%
35	7.01	1.95	8.96	-19.08	873.97	2.77E-06	83.10	72.30%	6.89	1.95	8.84	-12.65	866.35	2.82E-06	80.22	70.42%
36	7.01	1.95	8.96	-15.05	876.28	2.77E-06	83.09	72.11%	6.90	1.95	8.85	-21.97	866.35	2.84E-06	80.69	70.82%
37	7.02	1.95	8.97	-20.48	876.28	2.77E-06	83.09	72.11%	6.90	1.95	8.85	-22.00	868.66	2.84E-06	81.26	71.14%
38	7.03	1.95	8.98	-18.73	878.60	2.77E-06	82.52	71.43%	6.92	1.95	8.87	-19.84	866.35	2.82E-06	79.64	69.91%
39	7.03	1.95	8.98	-23.26	876.28	2.77E-06	82.52	71.61%	6.92	1.95	8.87	-18.10	866.35	2.79E-06	78.16	68.60%
40	7.04	1.95	8.99	-24.20	878.60	2.77E-06	83.08	71.91%	6.92	1.95	8.87	-16.77	868.66	2.79E-06	79.29	69.41%
41	7.04	1.95	8.99	-26.90	876.28	2.78E-06	84.13	73.01%	6.92	1.95	8.87	-18.14	866.35	2.80E-06	78.95	69.30%
42	7.03	1.95	8.98	-15.19	878.60	2.78E-06	84.45	73.09%	6.92	1.95	8.87	-13.73	866.35	2.81E-06	79.17	69.50%
43	7.04	1.95	8.99	-18.82	878.60	2.78E-06	84.44	73.09%	6.93	1.95	8.88	-19.09	866.35	2.81E-06	79.17	69.49%
44	7.04	1.95	8.99	-17.94	876.28	2.77E-06	83.63	72.58%	6.92	1.95	8.87	-14.64	864.03	2.82E-06	79.97	70.38%
45	7.04	1.95	8.99	-26.50	876.28	2.78E-06	83.88	72.79%	6.92	1.95	8.87	-15.98	866.35	2.82E-06	79.97	70.20%
46	7.04	1.95	8.99	-15.29	876.28	2.78E-06	83.87	72.79%	6.92	1.95	8.87	-12.00	866.35	2.81E-06	80.30	70.49%
47	7.04	1.95	8.99	-14.39	876.28	2.78E-06	84.43	73.28%	6.93	1.95	8.88	-10.25	866.35	2.80E-06	80.07	70.28%
48	7.03	1.95	8.98	-6.32	876.28	2.77E-06	84.18	73.06%	6.93	1.95	8.88	-15.17	866.35	2.80E-06	78.93	69.28%
49	7.05	1.95	8.99	-16.24	873.97	2.78E-06	83.87	72.97%	6.94	1.95	8.89	-16.52	866.35	2.80E-06	79.50	69.78%
50	7.05	1.95	8.99	-15.83	876.28	2.78E-06	83.86	72.78%	6.94	1.95	8.89	-13.42	866.35	2.82E-06	80.53	70.69%
51	7.04	1.95	8.99	-12.71	871.65	2.78E-06	83.86	73.16%	6.94	1.95	8.89	-15.25	866.35	2.81E-06	79.15	69.48%

52	7.04	1.95	8.99	-11.37	873.97	2.78E-06	83.85	72.97%	6.94	1.95	8.89	-13.03	866.35	2.82E-06	79.61	69.88%
53	7.05	1.95	9.00	-10.93	873.97	2.77E-06	83.61	72.75%	6.93	1.95	8.88	-8.58	866.35	2.79E-06	79.26	69.57%
54	7.05	1.95	8.99	-3.73	876.28	2.78E-06	84.42	73.26%	6.93	1.95	8.88	-13.48	866.35	2.77E-06	79.12	69.45%
55	7.05	1.95	9.00	-10.50	871.65	2.77E-06	84.73	73.92%	6.93	1.95	8.88	-6.83	868.66	2.78E-06	79.35	69.47%
56	7.05	1.95	9.00	-7.38	873.97	2.78E-06	83.53	72.68%	6.94	1.95	8.89	-6.42	866.35	2.78E-06	79.58	69.86%
57	7.06	1.95	9.01	-9.21	873.97	2.79E-06	84.33	73.38%	6.94	1.95	8.89	-2.88	868.66	2.79E-06	79.25	69.38%
58	7.07	1.95	9.01	-9.70	873.97	2.79E-06	83.77	72.89%	6.95	1.95	8.90	-13.59	866.35	2.79E-06	79.24	69.56%
59	7.06	1.95	9.01	-3.85	876.28	2.79E-06	84.33	73.18%	6.96	1.95	8.91	-15.41	866.35	2.82E-06	79.93	70.16%
60	7.06	1.95	9.00	-2.50	871.65	2.79E-06	84.89	74.07%	6.95	1.95	8.90	0.63	866.35	2.78E-06	79.34	69.64%
61	7.06	1.95	9.00	1.54	873.97	2.78E-06	84.64	73.65%	6.94	1.95	8.89	4.19	866.35	2.78E-06	79.90	70.14%
62	7.06	1.95	9.01	-6.57	873.97	2.78E-06	84.64	73.65%	6.95	1.95	8.90	-7.40	866.35	2.79E-06	79.80	70.05%
63	7.05	1.95	9.00	6.92	871.65	2.79E-06	84.89	74.06%	6.95	1.95	8.90	0.59	866.35	2.80E-06	79.46	69.75%
64	7.06	1.95	9.01	-3.93	876.28	2.78E-06	83.51	72.47%	6.95	1.95	8.90	1.46	866.35	2.80E-06	78.89	69.25%
65	7.07	1.95	9.02	-8.93	871.65	2.78E-06	83.50	72.85%	6.95	1.95	8.90	-1.67	864.03	2.78E-06	79.33	69.82%
66	7.07	1.95	9.02	-0.83	869.33	2.80E-06	83.99	73.47%	6.96	1.95	8.91	0.53	866.35	2.78E-06	78.76	69.14%
67	7.07	1.95	9.01	-3.98	871.65	2.78E-06	84.63	73.83%	6.96	1.95	8.91	-1.71	866.35	2.78E-06	78.76	69.14%
68	7.06	1.95	9.01	3.23	873.97	2.79E-06	84.88	73.85%	6.96	1.95	8.91	0.05	866.35	2.80E-06	78.88	69.24%
69	7.05	1.95	9.00	11.31	873.97	2.79E-06	84.31	73.36%	6.96	1.95	8.91	2.26	864.03	2.81E-06	79.11	69.63%

70	7.06	1.95	9.01	2.29	871.65	2.78E-06	83.50	72.85%	6.95	1.95	8.90	2.26	864.03	2.79E-06	79.78	70.22%
71	7.06	1.95	9.01	7.23	871.65	2.78E-06	84.62	73.83%	6.96	1.95	8.91	-1.75	866.35	2.79E-06	79.78	70.03%
72	7.06	1.95	9.01	1.81	869.33	2.78E-06	84.37	73.81%	6.96	1.95	8.91	4.92	866.35	2.78E-06	78.75	69.13%
73	7.07	1.95	9.02	1.33	873.97	2.79E-06	83.73	72.86%	6.97	1.95	8.92	-1.80	866.35	2.78E-06	78.98	69.33%
74	7.07	1.95	9.01	5.83	873.97	2.78E-06	83.80	72.92%	6.96	1.95	8.91	4.88	866.35	2.80E-06	79.44	69.73%
75	7.06	1.95	9.01	6.27	871.65	2.86E-06	85.35	74.46%	6.96	1.95	8.91	6.18	864.03	2.78E-06	78.41	69.01%
76	7.07	1.95	9.02	-5.45	867.02	2.78E-06	84.05	73.72%	6.96	1.95	8.91	5.29	864.03	2.76E-06	78.28	68.90%
77	7.07	1.95	9.02	3.99	867.02	2.78E-06	83.80	73.50%	6.96	1.95	8.91	9.74	866.35	2.76E-06	78.84	69.20%
78	7.07	1.95	9.02	-1.44	869.33	2.78E-06	83.48	73.02%	6.96	1.95	8.91	0.38	866.35	2.78E-06	79.30	69.61%
79	7.06	1.95	9.01	18.36	869.33	2.78E-06	83.47	73.02%	6.98	1.95	8.93	-1.43	864.03	2.79E-06	78.64	69.21%
80	7.05	1.95	9.00	24.16	867.02	2.78E-06	83.47	73.21%	6.97	1.95	8.92	6.58	866.35	2.79E-06	79.20	69.52%
81	7.07	1.95	9.02	2.10	867.02	2.79E-06	83.15	72.93%	6.97	1.95	8.92	7.45	866.35	2.79E-06	78.07	68.52%
82	7.07	1.95	9.02	10.22	867.02	2.78E-06	84.03	73.70%	6.98	1.95	8.93	6.54	866.35	2.80E-06	78.29	68.72%
83	7.08	1.95	9.03	6.16	869.33	2.77E-06	83.54	73.08%	6.97	1.95	8.92	13.22	864.03	2.82E-06	78.97	69.51%
84	7.10	1.95	9.05	-4.71	862.38	2.78E-06	84.03	74.10%	6.98	1.95	8.93	3.85	866.35	2.82E-06	78.74	69.12%
85	7.09	1.95	9.04	3.85	864.70	2.78E-06	82.65	72.69%	6.98	1.95	8.93	9.64	866.35	2.82E-06	78.97	69.32%
86	7.09	1.95	9.04	7.00	864.70	2.77E-06	82.97	72.97%	6.97	1.95	8.92	12.31	866.35	2.82E-06	79.54	69.82%
87	7.08	1.95	9.03	10.61	867.02	2.76E-06	83.28	73.05%	6.97	1.95	8.92	18.98	866.35	2.82E-06	78.74	69.12%

88	7.08	1.95	9.03	18.27	864.70	2.78E-06	83.21	73.18%	6.98	1.95	8.93	10.51	868.66	2.80E-06	78.85	69.03%
89	7.08	1.95	9.02	17.36	867.02	2.78E-06	83.45	73.20%	6.98	1.95	8.93	15.39	868.66	2.78E-06	77.82	68.13%
90	7.07	1.95	9.02	22.75	867.02	2.79E-06	83.69	73.41%	6.98	1.95	8.93	8.69	866.35	2.79E-06	78.61	69.01%
91	7.08	1.95	9.03	18.23	867.02	2.76E-06	82.72	72.55%	6.98	1.95	8.93	15.38	868.66	2.81E-06	79.07	69.22%
92	7.08	1.95	9.03	15.98	864.70	2.74E-06	83.34	73.29%	6.99	1.95	8.94	7.80	868.66	2.81E-06	79.64	69.72%
93	7.07	1.95	9.02	20.02	867.02	2.76E-06	83.83	73.53%	6.98	1.95	8.93	12.70	866.35	2.82E-06	80.10	70.31%
94	7.07	1.95	9.02	18.20	867.02	2.78E-06	83.44	73.19%	6.99	1.95	8.94	6.87	864.03	2.82E-06	78.73	69.29%
95	7.07	1.95	9.02	22.68	867.02	2.79E-06	83.12	72.91%	6.99	1.95	8.94	11.78	866.35	2.81E-06	78.50	68.90%
96	7.08	1.95	9.03	10.97	867.02	2.78E-06	83.44	73.19%	6.99	1.95	8.94	16.67	866.35	2.79E-06	78.60	69.00%
97	7.08	1.95	9.03	15.02	867.02	2.78E-06	84.00	73.68%	7.00	1.95	8.95	10.86	866.35	2.78E-06	78.37	68.80%
98	7.08	1.95	9.03	22.68	867.02	2.78E-06	84.32	73.96%	7.00	1.95	8.95	11.74	866.35	2.78E-06	78.37	68.79%
99	7.07	1.95	9.02	27.15	867.02	2.79E-06	83.68	73.40%	6.99	1.95	8.94	9.93	864.03	2.79E-06	77.47	68.18%
100	7.08	1.95	9.03	24.44	867.02	2.78E-06	82.87	72.69%	6.99	1.95	8.94	9.49	864.03	2.79E-06	78.03	68.68%
101	7.08	1.95	9.03	21.28	867.02	2.79E-06	81.98	71.91%	6.99	1.95	8.94	15.28	866.35	2.79E-06	78.03	68.50%
102	7.09	1.95	9.03	18.11	867.02	2.76E-06	82.14	72.05%	6.99	1.95	8.94	13.05	866.35	2.82E-06	78.71	69.09%
103	7.08	1.95	9.02	32.53	869.33	2.76E-06	82.70	72.34%	7.00	1.95	8.95	13.49	866.35	2.81E-06	78.48	68.89%
104	7.08	1.95	9.03	18.55	869.33	2.78E-06	83.74	73.26%	7.00	1.95	8.95	13.47	864.03	2.82E-06	78.37	68.97%
105	7.10	1.95	9.04	11.78	867.02	2.77E-06	83.50	73.24%	7.00	1.95	8.95	14.35	866.35	2.82E-06	77.79	68.28%

106	7.08	1.95	9.02	31.15	867.02	2.79E-06	84.23	73.88%	6.99	1.95	8.94	16.58	866.35	2.79E-06	78.03	68.49%
107	7.10	1.95	9.04	16.28	867.02	2.79E-06	83.67	73.39%	6.99	1.95	8.94	18.36	866.35	2.79E-06	78.59	68.99%
108	7.09	1.95	9.03	22.59	869.33	2.79E-06	83.67	73.19%	6.99	1.95	8.94	19.68	866.35	2.78E-06	77.80	68.29%
109	7.08	1.95	9.03	27.54	869.33	2.78E-06	83.42	72.97%	6.99	1.95	8.94	19.24	866.35	2.78E-06	77.57	68.09%
110	7.08	1.95	9.03	32.92	869.33	2.79E-06	82.53	72.20%	7.00	1.95	8.95	15.65	866.35	2.80E-06	78.25	68.68%
111	7.09	1.95	9.04	21.66	869.33	2.78E-06	82.85	72.48%	6.99	1.95	8.94	17.42	868.66	2.78E-06	78.35	68.60%
112	7.10	1.95	9.05	18.05	869.33	2.78E-06	83.42	72.97%	6.98	1.95	8.93	29.03	866.35	2.79E-06	78.02	68.48%
113	7.09	1.95	9.03	22.55	867.02	2.78E-06	83.42	73.17%	6.99	1.95	8.94	17.86	861.71	2.81E-06	78.47	69.25%
114	7.07	1.95	9.02	31.98	867.02	2.78E-06	83.73	73.44%	6.98	1.95	8.93	25.89	864.03	2.80E-06	78.25	68.87%
115	7.08	1.95	9.03	26.12	871.65	2.78E-06	83.41	72.77%	6.99	1.95	8.94	26.77	864.03	2.81E-06	77.33	68.07%
116	7.09	1.95	9.04	24.32	871.65	2.76E-06	82.68	72.13%	6.99	1.95	8.94	25.42	866.35	2.82E-06	78.13	68.58%
117	7.09	1.95	9.04	24.30	894.81	2.77E-06	82.92	70.47%	6.99	1.95	8.94	25.43	866.35	2.80E-06	77.67	68.18%
118	7.10	1.95	9.05	23.43	892.50	2.76E-06	83.23	70.92%	6.99	1.95	8.94	17.39	866.35	2.80E-06	78.24	68.68%
119	7.10	1.95	9.04	33.82	883.23	2.79E-06	84.78	73.00%	6.98	1.95	8.93	26.77	866.35	2.81E-06	78.47	68.88%
120	7.11	1.95	9.06	22.09	873.97	2.78E-06	83.97	73.07%	6.99	1.95	8.94	24.97	868.66	2.79E-06	77.45	67.80%
121	7.10	1.95	9.05	24.30	871.65	2.78E-06	82.84	72.27%	6.99	1.95	8.94	21.38	866.35	2.79E-06	77.44	67.98%
122	7.10	1.95	9.05	27.91	869.33	2.78E-06	82.28	71.97%	6.99	1.95	8.94	27.62	866.35	2.79E-06	76.88	67.48%
123	7.10	1.95	9.05	22.93	867.02	2.78E-06	82.84	72.66%	6.99	1.95	8.94	24.51	866.35	2.80E-06	77.67	68.18%

124	7.10	1.95	9.05	27.01	869.33	2.78E-06	83.40	72.96%	6.99	1.95	8.94	24.05	866.35	2.79E-06	77.44	67.98%
125	7.10	1.95	9.05	26.53	869.33	2.78E-06	83.96	73.45%	6.99	1.95	8.94	28.06	866.35	2.81E-06	78.46	68.87%
126	7.09	1.95	9.04	32.81	871.65	2.78E-06	82.59	72.06%	6.99	1.95	8.94	28.50	866.35	2.82E-06	77.55	68.07%
127	7.10	1.95	9.05	31.47	867.02	2.77E-06	82.35	72.23%	6.99	1.95	8.94	26.71	864.03	2.81E-06	77.32	68.05%
128	7.10	1.95	9.04	32.35	867.02	2.78E-06	82.03	71.95%	7.00	1.95	8.95	25.82	866.35	2.81E-06	77.89	68.37%
129	7.10	1.95	9.05	27.40	867.02	2.78E-06	82.83	72.65%	6.99	1.95	8.94	37.85	866.35	2.81E-06	77.89	68.37%
130	7.10	1.95	9.05	24.68	869.33	2.79E-06	83.64	73.16%	7.00	1.95	8.95	26.72	864.03	2.81E-06	78.46	69.05%
131	7.08	1.95	9.03	39.54	869.33	2.78E-06	83.39	72.95%	6.99	1.95	8.94	28.93	864.03	2.79E-06	78.00	68.65%
132	7.10	1.95	9.05	28.28	867.02	2.77E-06	82.34	72.22%	6.99	1.95	8.94	29.34	866.35	2.78E-06	75.86	66.59%
133	7.10	1.95	9.05	28.71	867.02	2.78E-06	82.82	72.64%	6.99	1.95	8.94	35.14	864.03	2.78E-06	76.64	67.46%
134	7.11	1.95	9.06	31.45	871.65	2.78E-06	83.14	72.54%	6.99	1.95	8.94	35.14	864.03	2.78E-06	76.98	67.75%
135	7.10	1.95	9.05	35.50	873.97	2.78E-06	83.70	72.83%	6.99	1.95	8.94	34.24	861.71	2.78E-06	77.21	68.13%
136	7.11	1.95	9.06	26.93	876.28	2.78E-06	83.38	72.36%	6.99	1.95	8.94	31.11	864.03	2.78E-06	77.20	67.95%
137	7.10	1.95	9.05	35.03	876.28	2.78E-06	82.58	71.66%	6.99	1.95	8.94	32.89	866.35	2.80E-06	77.66	68.17%
138	7.11	1.95	9.06	32.78	873.97	2.78E-06	82.58	71.85%	6.99	1.95	8.94	30.20	864.03	2.80E-06	77.09	67.85%
139	7.11	1.95	9.06	37.74	867.02	2.76E-06	81.53	71.51%	6.99	1.95	8.94	38.23	864.03	2.80E-06	77.09	67.85%
140	7.11	1.95	9.05	33.20	864.70	2.77E-06	82.33	72.41%	6.99	1.95	8.94	33.77	861.71	2.79E-06	76.86	67.83%
141	7.11	1.95	9.06	27.34	862.38	2.77E-06	82.33	72.60%	6.99	1.95	8.94	34.65	864.03	2.79E-06	76.86	67.65%

142	7.10	1.95	9.04	34.98	862.38	2.78E-06	82.01	72.32%	6.99	1.95	8.94	36.45	864.03	2.78E-06	76.98	67.75%
143	7.09	1.95	9.04	34.07	862.38	2.76E-06	82.09	72.39%	6.99	1.95	8.94	34.20	864.03	2.78E-06	76.41	67.25%
144	7.10	1.95	9.05	32.26	864.70	2.76E-06	82.09	72.19%	6.99	1.95	8.94	35.99	864.03	2.77E-06	76.19	67.05%
145	7.10	1.95	9.05	36.77	867.02	2.78E-06	83.13	72.92%	7.00	1.95	8.95	30.18	864.03	2.77E-06	75.62	66.56%
146	7.10	1.95	9.05	31.35	864.70	2.75E-06	81.29	71.49%	7.00	1.95	8.95	31.06	866.35	2.78E-06	76.07	66.77%
147	7.09	1.95	9.04	36.29	857.75	2.79E-06	83.06	73.64%	6.99	1.95	8.94	34.62	866.35	2.79E-06	76.86	67.46%
148	7.08	1.95	9.03	36.71	860.07	2.78E-06	82.25	72.73%	7.00	1.95	8.95	31.06	864.03	2.79E-06	76.86	67.64%
149	7.08	1.95	9.03	46.60	860.07	2.79E-06	81.92	72.44%	7.00	1.95	8.95	31.94	866.35	2.79E-06	75.73	66.47%
150	7.10	1.95	9.05	27.68	860.07	2.79E-06	81.36	71.93%	7.00	1.95	8.95	33.29	864.03	2.76E-06	75.40	66.36%
151	7.09	1.95	9.04	42.99	860.07	2.78E-06	81.12	71.72%	7.00	1.95	8.95	34.17	864.03	2.78E-06	76.63	67.44%
152	7.10	1.95	9.04	26.78	857.75	2.78E-06	82.00	72.70%	6.99	1.95	8.94	38.19	866.35	2.80E-06	77.08	67.66%
153	7.09	1.95	9.03	35.34	855.43	2.78E-06	82.01	72.90%	7.00	1.95	8.95	38.64	864.03	2.80E-06	77.08	67.84%
154	7.09	1.95	9.03	33.97	857.75	2.77E-06	81.20	71.99%	7.01	1.95	8.96	30.16	866.35	2.79E-06	76.85	67.46%
155	7.07	1.95	9.02	48.34	857.75	2.78E-06	80.88	71.71%	7.00	1.95	8.95	37.74	864.03	2.78E-06	76.06	66.95%
156	7.09	1.95	9.03	38.47	862.38	2.78E-06	81.44	71.82%	7.00	1.95	8.95	34.17	864.03	2.77E-06	76.18	67.05%
157	7.09	1.95	9.03	38.89	857.75	2.78E-06	80.31	71.20%	7.00	1.95	8.95	39.51	866.35	2.78E-06	76.96	67.56%
158	7.09	1.95	9.03	44.31	857.75	2.77E-06	80.64	71.49%	7.00	1.95	8.95	32.38	864.03	2.77E-06	76.18	67.05%
159	7.09	1.95	9.03	47.48	857.75	2.78E-06	81.68	72.41%	7.00	1.95	8.95	33.26	864.03	2.78E-06	75.84	66.75%

160	7.09	1.95	9.03	37.08	857.75	2.78E-06	81.67	72.41%	6.99	1.95	8.94	42.60	861.71	2.78E-06	75.28	66.43%
161	7.09	1.95	9.03	37.52	860.07	2.78E-06	81.11	71.72%	7.00	1.95	8.95	35.03	864.03	2.78E-06	76.96	67.73%
162	7.09	1.95	9.04	39.78	860.07	2.78E-06	79.75	70.51%	7.00	1.95	8.95	41.28	864.03	2.78E-06	76.62	67.44%
163	7.09	1.95	9.04	42.49	857.75	2.78E-06	80.54	71.41%	6.99	1.95	8.94	39.94	864.03	2.79E-06	77.98	68.63%
164	7.10	1.95	9.05	41.61	857.75	2.77E-06	80.63	71.49%	7.01	1.95	8.96	34.15	864.03	2.79E-06	76.28	67.14%
165	7.08	1.95	9.03	53.29	855.43	2.78E-06	82.55	73.39%	7.00	1.95	8.95	39.93	864.03	2.79E-06	76.28	67.14%
166	7.10	1.95	9.04	34.83	855.43	2.78E-06	81.67	72.60%	7.00	1.95	8.95	44.84	861.71	2.79E-06	76.28	67.31%
167	7.09	1.95	9.04	43.36	857.75	2.77E-06	80.07	70.99%	7.00	1.95	8.95	37.23	861.71	2.78E-06	77.18	68.11%
168	7.10	1.95	9.05	34.36	857.75	2.78E-06	80.54	71.41%	6.99	1.95	8.94	47.46	864.03	2.78E-06	76.62	67.43%
169	7.09	1.95	9.04	42.48	857.75	2.78E-06	81.43	72.19%	7.00	1.95	8.95	38.13	866.35	2.78E-06	76.62	67.25%
170	7.09	1.95	9.04	42.47	860.07	2.78E-06	81.66	72.21%	7.00	1.95	8.95	39.89	864.03	2.77E-06	75.61	66.55%
171	7.09	1.95	9.04	42.46	862.38	2.77E-06	81.19	71.59%	7.02	1.95	8.97	36.83	864.03	2.78E-06	75.83	66.74%
172	7.09	1.95	9.04	45.16	860.07	2.78E-06	81.43	72.00%	7.01	1.95	8.96	35.92	864.03	2.77E-06	75.61	66.54%
173	7.10	1.95	9.05	40.67	862.38	2.77E-06	80.07	70.60%	7.00	1.95	8.95	43.49	866.35	2.77E-06	76.17	66.86%
174	7.11	1.95	9.05	34.80	857.75	2.79E-06	81.33	72.11%	7.01	1.95	8.96	39.05	864.03	2.76E-06	75.94	66.84%
175	7.10	1.95	9.05	38.88	857.75	2.78E-06	81.42	72.19%	7.01	1.95	8.96	38.61	864.03	2.77E-06	75.61	66.54%
176	7.11	1.95	9.05	31.64	857.75	2.78E-06	81.42	72.19%	7.01	1.95	8.96	42.60	864.03	2.76E-06	75.38	66.35%
177	7.11	1.95	9.06	30.31	857.75	2.78E-06	81.42	72.19%	7.01	1.95	8.96	44.40	864.03	2.78E-06	75.83	66.74%

178	7.09	1.95	9.04	48.76	860.07	2.78E-06	81.42	71.99%	7.01	1.95	8.96	46.18	864.03	2.78E-06	76.39	67.23%
179	7.10	1.95	9.05	39.76	862.38	2.78E-06	80.53	71.02%	7.01	1.95	8.96	43.95	864.03	2.79E-06	75.71	66.63%
180	7.09	1.95	9.04	48.73	857.75	2.78E-06	80.29	71.19%	7.02	1.95	8.97	35.47	866.35	2.78E-06	75.48	66.26%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 30° (Data 2)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	16.62	1.95	18.57	29.66	846.81	2.78E-06	0.00	0.00%	7.10	1.95	9.05	13.57	833.92	2.78E-06	0.00	0.00%
1	5.87	1.95	7.82	-21.55	846.81	2.79E-06	28.38	25.48%	7.14	1.95	9.09	-15.98	838.55	2.76E-06	35.33	32.04%
2	6.09	1.95	8.04	-25.01	851.44	2.79E-06	44.82	40.03%	5.30	1.95	7.25	-20.36	845.50	2.76E-06	56.63	50.93%
3	6.26	1.95	8.20	-25.93	856.08	2.79E-06	52.76	46.87%	5.83	1.95	7.78	-19.52	847.82	2.77E-06	63.53	56.99%
4	6.37	1.95	8.31	-23.00	863.03	2.79E-06	56.72	49.98%	6.10	1.95	8.05	-22.25	852.45	2.76E-06	63.34	56.51%
5	6.44	1.95	8.39	-14.84	865.34	2.80E-06	59.73	52.49%	6.25	1.95	8.20	-21.88	852.45	2.78E-06	65.40	58.34%
6	6.53	1.95	8.48	-24.33	865.34	2.79E-06	62.38	54.82%	6.35	1.95	8.30	-23.45	852.45	2.77E-06	66.33	59.17%
7	6.59	1.95	8.54	-28.79	865.34	2.79E-06	64.65	56.81%	6.42	1.95	8.37	-20.31	854.76	2.78E-06	68.77	61.19%
8	6.65	1.95	8.60	-26.88	865.34	2.79E-06	66.34	58.30%	6.49	1.95	8.44	-21.34	854.76	2.78E-06	69.90	62.18%
9	6.69	1.95	8.64	-24.43	867.66	2.79E-06	68.04	59.63%	6.55	1.95	8.50	-28.72	859.40	2.78E-06	70.46	62.35%
10	6.72	1.95	8.67	-27.13	869.98	2.79E-06	70.87	61.95%	6.59	1.95	8.54	-28.90	859.40	2.78E-06	70.45	62.34%
11	6.75	1.95	8.70	-25.06	869.98	2.79E-06	70.87	61.95%	6.63	1.95	8.58	-23.88	859.40	2.79E-06	72.00	63.71%
12	6.78	1.95	8.73	-24.74	869.98	2.78E-06	72.35	63.25%	6.66	1.95	8.61	-25.71	857.08	2.79E-06	73.13	64.88%
13	6.81	1.95	8.76	-33.61	869.98	2.78E-06	73.48	64.23%	6.68	1.95	8.63	-24.93	857.08	2.79E-06	74.26	65.89%
14	6.83	1.95	8.78	-25.80	869.98	2.79E-06	74.82	65.41%	6.70	1.95	8.65	-21.09	859.40	2.78E-06	74.61	66.02%
15	6.86	1.95	8.80	-28.08	874.61	2.78E-06	75.73	65.85%	6.73	1.95	8.68	-28.58	861.71	2.79E-06	74.25	65.53%

16	6.87	1.95	8.82	-25.93	874.61	2.78E-06	76.30	66.34%	6.74	1.95	8.69	-19.93	861.71	2.79E-06	74.25	65.53%
17	6.87	1.95	8.82	-25.96	874.61	2.78E-06	77.42	67.32%	6.76	1.95	8.71	-24.37	859.40	2.79E-06	75.38	66.70%
18	6.89	1.95	8.84	-25.15	874.61	2.78E-06	77.99	67.81%	6.77	1.95	8.72	-11.30	861.71	2.78E-06	76.07	67.13%
19	6.91	1.95	8.86	-28.77	874.61	2.78E-06	78.55	68.30%	6.80	1.95	8.75	-33.23	861.71	2.78E-06	76.06	67.13%
20	6.93	1.95	8.88	-32.39	874.61	2.78E-06	78.88	68.58%	6.80	1.95	8.75	-25.38	861.71	2.78E-06	76.62	67.62%
21	6.93	1.95	8.88	-27.96	874.61	2.78E-06	79.67	69.27%	6.81	1.95	8.76	-19.74	859.40	2.78E-06	76.28	67.50%
22	6.94	1.95	8.89	-25.34	872.29	2.79E-06	80.47	70.15%	6.82	1.95	8.77	-23.30	859.40	2.78E-06	76.06	67.30%
23	6.94	1.95	8.89	-23.16	874.61	2.79E-06	79.90	69.47%	6.82	1.95	8.77	-20.24	861.71	2.78E-06	76.62	67.61%
24	6.97	1.95	8.91	-26.38	872.29	2.79E-06	79.89	69.65%	6.83	1.95	8.78	-19.40	861.71	2.78E-06	77.40	68.31%
25	6.97	1.95	8.92	-32.19	874.61	2.78E-06	80.79	70.24%	6.83	1.95	8.78	-18.53	861.71	2.78E-06	77.97	68.81%
26	6.96	1.95	8.91	-18.82	876.93	2.80E-06	81.26	70.47%	6.84	1.95	8.79	-19.02	861.71	2.78E-06	76.61	67.61%
27	6.96	1.95	8.91	-21.07	874.61	2.79E-06	81.59	70.94%	6.84	1.95	8.79	-13.77	861.71	2.79E-06	77.62	68.50%
28	6.97	1.95	8.92	-14.86	876.93	2.79E-06	81.58	70.75%	6.85	1.95	8.80	-12.93	861.71	2.79E-06	77.62	68.50%
29	6.98	1.95	8.93	-15.81	874.61	2.78E-06	80.77	70.23%	6.86	1.95	8.81	-23.09	861.71	2.81E-06	79.21	69.90%
30	6.99	1.95	8.93	-22.53	874.61	2.79E-06	82.14	71.42%	6.86	1.95	8.81	-19.12	861.71	2.80E-06	78.98	69.70%
31	6.98	1.95	8.93	-12.70	876.93	2.79E-06	83.27	72.21%	6.86	1.95	8.81	-12.09	866.35	2.79E-06	78.18	68.62%
32	6.99	1.95	8.94	-20.79	876.93	2.79E-06	82.70	71.72%	6.88	1.95	8.83	-23.61	866.35	2.78E-06	77.95	68.42%
33	7.00	1.95	8.94	-18.13	876.93	2.79E-06	82.70	71.72%	6.88	1.95	8.83	-16.14	861.71	2.78E-06	77.94	68.79%

34	7.00	1.95	8.95	-17.28	874.61	2.79E-06	82.13	71.41%	6.87	1.95	8.82	-8.21	861.71	2.78E-06	77.38	68.29%
35	7.01	1.95	8.95	-16.86	874.61	2.79E-06	82.13	71.41%	6.88	1.95	8.83	-19.28	861.71	2.79E-06	78.73	69.48%
36	7.01	1.95	8.96	-12.84	876.93	2.79E-06	83.26	72.20%	6.87	1.95	8.82	-10.43	861.71	2.78E-06	79.07	69.78%
37	7.01	1.95	8.96	-14.20	874.61	2.79E-06	83.25	72.39%	6.88	1.95	8.83	-17.53	861.71	2.79E-06	78.73	69.48%
38	7.02	1.95	8.97	-15.59	874.61	2.79E-06	82.69	71.89%	6.90	1.95	8.85	-17.58	861.71	2.78E-06	78.83	69.57%
39	7.02	1.95	8.96	-12.91	874.61	2.78E-06	82.44	71.68%	6.89	1.95	8.84	-10.54	861.71	2.79E-06	77.02	67.97%
40	7.02	1.95	8.97	-13.38	874.61	2.79E-06	83.25	72.38%	6.90	1.95	8.85	-14.54	864.03	2.78E-06	78.49	69.08%
41	7.02	1.95	8.97	-10.25	874.61	2.78E-06	82.76	71.96%	6.89	1.95	8.84	-2.15	861.71	2.78E-06	78.82	69.56%
42	7.02	1.95	8.97	-16.09	879.24	2.78E-06	84.13	72.76%	6.90	1.95	8.85	-7.48	861.71	2.78E-06	77.92	68.77%
43	7.02	1.95	8.97	-8.06	876.93	2.79E-06	83.24	72.18%	6.91	1.95	8.86	-13.27	861.71	2.78E-06	77.35	68.27%
44	7.02	1.95	8.97	-2.70	876.93	2.78E-06	82.99	71.97%	6.91	1.95	8.86	-9.76	861.71	2.79E-06	77.58	68.46%
45	7.02	1.95	8.97	-4.06	876.93	2.78E-06	83.55	72.46%	6.91	1.95	8.86	-8.44	859.40	2.79E-06	78.14	69.15%
46	7.03	1.95	8.98	-15.30	876.93	2.79E-06	83.80	72.67%	6.90	1.95	8.85	-2.69	861.71	2.79E-06	79.27	69.96%
47	7.03	1.95	8.98	-7.23	883.87	2.79E-06	83.79	72.09%	6.90	1.95	8.85	-3.14	861.71	2.79E-06	78.70	69.46%
48	7.03	1.95	8.98	-5.46	876.93	2.79E-06	83.79	72.66%	6.91	1.95	8.86	-5.39	861.71	2.79E-06	78.14	68.95%
49	7.03	1.95	8.98	-7.28	876.93	2.79E-06	83.79	72.66%	6.90	1.95	8.85	0.79	864.03	2.78E-06	77.68	68.37%
50	7.04	1.95	8.99	-11.81	876.93	2.79E-06	83.78	72.66%	6.91	1.95	8.86	-5.87	861.71	2.78E-06	78.47	69.25%
51	7.05	1.95	8.99	-9.57	874.61	2.79E-06	84.35	73.34%	6.92	1.95	8.87	-1.02	861.71	2.79E-06	78.13	68.95%

52	7.03	1.95	8.98	-5.07	876.93	2.79E-06	84.35	73.15%	6.92	1.95	8.87	-9.01	859.40	2.79E-06	78.69	69.63%
53	7.04	1.95	8.99	-3.75	876.93	2.79E-06	84.34	73.14%	6.91	1.95	8.86	3.39	859.40	2.79E-06	78.12	69.13%
54	7.04	1.95	8.99	-6.47	876.93	2.78E-06	83.53	72.44%	6.91	1.95	8.86	2.50	861.71	2.82E-06	79.38	70.05%
55	7.06	1.95	9.01	-13.71	876.93	2.79E-06	83.77	72.65%	6.92	1.95	8.87	-3.29	861.71	2.81E-06	79.14	69.84%
56	7.04	1.95	8.99	3.37	876.93	2.78E-06	83.52	72.43%	6.92	1.95	8.87	5.99	859.40	2.81E-06	78.57	69.53%
57	7.05	1.95	9.00	-4.72	879.24	2.78E-06	85.21	73.70%	6.92	1.95	8.87	0.21	861.71	2.81E-06	78.57	69.34%
58	7.05	1.95	9.00	-2.04	879.24	2.79E-06	84.89	73.43%	6.93	1.95	8.88	1.54	861.71	2.81E-06	78.57	69.34%
59	7.05	1.95	9.00	-2.96	879.24	2.79E-06	84.89	73.42%	6.92	1.95	8.87	7.72	859.40	2.80E-06	78.34	69.32%
60	7.05	1.95	9.00	2.86	874.61	2.79E-06	83.76	72.83%	6.92	1.95	8.87	7.73	861.71	2.81E-06	78.56	69.33%
61	7.05	1.95	9.00	3.29	874.61	2.80E-06	84.00	73.04%	6.93	1.95	8.88	0.59	857.08	2.79E-06	77.54	68.80%
62	7.05	1.95	9.00	2.39	876.93	2.79E-06	84.32	73.12%	6.94	1.95	8.89	0.13	859.40	2.79E-06	77.54	68.61%
63	7.05	1.95	8.99	6.41	874.61	2.79E-06	84.32	73.31%	6.92	1.95	8.87	15.21	859.40	2.79E-06	78.67	69.61%
64	7.05	1.95	9.00	7.75	874.61	2.79E-06	83.75	72.82%	6.91	1.95	8.86	19.61	859.40	2.79E-06	77.53	68.61%
65	7.06	1.95	9.00	1.87	874.61	2.79E-06	83.74	72.82%	6.94	1.95	8.89	6.77	861.71	2.79E-06	78.10	68.92%
66	7.06	1.95	9.01	1.85	876.93	2.79E-06	83.18	72.13%	6.93	1.95	8.88	9.41	861.71	2.80E-06	78.32	69.12%
67	7.05	1.95	8.99	12.64	876.93	2.79E-06	84.31	73.11%	6.95	1.95	8.90	6.28	861.71	2.79E-06	78.09	68.92%
68	7.05	1.95	9.00	4.99	874.61	2.79E-06	83.74	72.81%	6.95	1.95	8.90	6.28	859.40	2.79E-06	78.66	69.60%
69	7.05	1.95	9.00	8.57	874.61	2.79E-06	83.74	72.81%	6.93	1.95	8.88	19.12	859.40	2.79E-06	78.09	69.10%

70	7.06	1.95	9.01	3.15	874.61	2.80E-06	83.98	73.02%	6.94	1.95	8.89	8.92	859.40	2.80E-06	78.32	69.30%
71	7.06	1.95	9.01	5.39	874.61	2.79E-06	84.30	73.30%	6.95	1.95	8.90	5.35	859.40	2.81E-06	77.97	69.00%
72	7.06	1.95	9.01	5.83	872.29	2.79E-06	83.73	73.00%	6.95	1.95	8.90	7.54	859.40	2.82E-06	77.62	68.69%
73	7.05	1.95	9.00	17.50	872.29	2.80E-06	83.40	72.71%	6.95	1.95	8.90	8.87	864.03	2.80E-06	77.74	68.42%
74	7.06	1.95	9.01	6.25	872.29	2.79E-06	83.72	72.99%	6.95	1.95	8.90	14.64	864.03	2.82E-06	78.99	69.52%
75	7.06	1.95	9.00	11.63	872.29	2.79E-06	83.16	72.50%	6.95	1.95	8.90	13.30	861.71	2.82E-06	78.99	69.71%
76	7.06	1.95	9.00	10.27	872.29	2.79E-06	83.72	72.99%	6.95	1.95	8.90	15.51	861.71	2.82E-06	78.41	69.20%
77	7.07	1.95	9.02	0.80	872.29	2.79E-06	83.72	72.99%	6.96	1.95	8.91	9.70	857.08	2.82E-06	77.61	68.86%
78	7.05	1.95	9.00	23.27	869.98	2.79E-06	83.15	72.68%	6.96	1.95	8.91	8.79	861.71	2.82E-06	77.83	68.69%
79	7.06	1.95	9.01	10.67	869.98	2.79E-06	83.15	72.68%	6.97	1.95	8.92	2.56	859.40	2.82E-06	78.75	69.68%
80	7.06	1.95	9.01	14.71	869.98	2.80E-06	83.39	72.89%	6.94	1.95	8.89	26.11	861.71	2.82E-06	78.75	69.50%
81	7.06	1.95	9.01	20.10	869.98	2.79E-06	83.14	72.68%	6.94	1.95	8.89	21.20	861.71	2.82E-06	78.18	68.99%
82	7.07	1.95	9.02	5.69	872.29	2.79E-06	83.71	72.98%	6.95	1.95	8.90	18.98	859.40	2.82E-06	77.61	68.67%
83	7.06	1.95	9.01	16.93	869.98	2.79E-06	83.71	73.17%	6.96	1.95	8.91	16.75	857.08	2.81E-06	77.38	68.66%
84	7.06	1.95	9.01	22.75	869.98	2.79E-06	82.57	72.18%	6.96	1.95	8.91	21.17	859.40	2.81E-06	77.37	68.47%
85	7.06	1.95	9.01	18.69	867.66	2.80E-06	83.38	73.08%	6.97	1.95	8.92	9.17	861.71	2.79E-06	78.06	68.89%
86	7.06	1.95	9.01	19.14	869.98	2.79E-06	83.13	72.67%	6.96	1.95	8.91	10.50	861.71	2.81E-06	77.94	68.78%
87	7.07	1.95	9.02	9.68	867.66	2.79E-06	83.13	72.86%	6.96	1.95	8.91	17.17	859.40	2.80E-06	77.15	68.27%

88	7.05	1.95	9.00	29.91	869.98	2.80E-06	84.51	73.87%	6.97	1.95	8.92	15.37	859.40	2.81E-06	77.37	68.46%
89	7.06	1.95	9.01	20.01	869.98	2.79E-06	83.70	73.16%	6.96	1.95	8.91	23.36	861.71	2.82E-06	77.59	68.47%
90	7.06	1.95	9.00	25.38	869.98	2.79E-06	83.13	72.66%	6.96	1.95	8.91	24.70	859.40	2.82E-06	77.59	68.66%
91	7.07	1.95	9.02	12.78	867.66	2.79E-06	82.56	72.36%	6.96	1.95	8.91	25.13	857.08	2.82E-06	78.73	69.86%
92	7.06	1.95	9.01	19.51	867.66	2.80E-06	83.36	73.07%	6.96	1.95	8.91	23.34	859.40	2.80E-06	77.71	68.76%
93	7.06	1.95	9.00	25.80	865.34	2.80E-06	83.36	73.26%	6.97	1.95	8.92	20.23	859.40	2.80E-06	77.70	68.76%
94	7.06	1.95	9.00	25.34	867.66	2.79E-06	83.69	73.35%	6.97	1.95	8.92	19.32	857.08	2.80E-06	77.13	68.44%
95	7.06	1.95	9.00	29.83	867.66	2.80E-06	83.36	73.06%	6.98	1.95	8.93	22.44	859.40	2.80E-06	77.13	68.25%
96	7.06	1.95	9.01	28.49	869.98	2.79E-06	83.12	72.65%	6.98	1.95	8.93	15.30	857.08	2.81E-06	76.79	68.13%
97	7.08	1.95	9.02	14.09	867.66	2.79E-06	84.25	73.84%	6.96	1.95	8.91	29.09	859.40	2.79E-06	78.04	69.05%
98	7.08	1.95	9.02	13.63	869.98	2.80E-06	83.92	73.36%	6.98	1.95	8.93	25.54	857.08	2.79E-06	78.03	69.24%
99	7.06	1.95	9.00	32.48	865.34	2.79E-06	83.11	73.04%	6.98	1.95	8.93	21.96	857.08	2.78E-06	76.68	68.03%
100	7.06	1.95	9.01	31.13	865.34	2.79E-06	83.11	73.04%	6.98	1.95	8.93	18.83	857.08	2.78E-06	76.45	67.83%
101	7.07	1.95	9.02	23.93	867.66	2.79E-06	82.54	72.35%	6.99	1.95	8.94	16.59	857.08	2.79E-06	77.46	68.73%
102	7.08	1.95	9.03	14.93	865.34	2.80E-06	83.35	73.25%	6.97	1.95	8.92	29.93	854.76	2.79E-06	77.46	68.92%
103	7.08	1.95	9.02	18.98	865.34	2.80E-06	83.35	73.25%	6.96	1.95	8.91	34.80	854.76	2.78E-06	76.67	68.22%
104	7.05	1.95	9.00	36.48	867.66	2.79E-06	83.10	72.84%	6.97	1.95	8.92	30.80	857.08	2.78E-06	76.45	67.83%
105	7.06	1.95	9.01	29.73	867.66	2.80E-06	83.35	73.05%	6.97	1.95	8.92	29.01	857.08	2.78E-06	76.11	67.53%

106	7.06	1.95	9.01	32.42	867.66	2.79E-06	82.53	72.34%	6.98	1.95	8.93	23.68	857.08	2.79E-06	77.46	68.73%
107	7.08	1.95	9.02	20.28	867.66	2.80E-06	82.21	72.05%	6.98	1.95	8.93	32.57	857.08	2.78E-06	76.67	68.02%
108	7.06	1.95	9.01	33.31	865.34	2.79E-06	82.53	72.53%	6.96	1.95	8.91	43.66	852.45	2.79E-06	77.45	69.10%
109	7.06	1.95	9.01	31.51	865.34	2.80E-06	83.34	73.24%	6.97	1.95	8.92	38.79	857.08	2.78E-06	77.23	68.52%
110	7.06	1.95	9.01	33.29	865.34	2.80E-06	82.77	72.74%	6.97	1.95	8.92	35.63	854.76	2.78E-06	76.66	68.20%
111	7.07	1.95	9.01	30.56	865.34	2.79E-06	82.53	72.52%	6.98	1.95	8.93	28.53	852.45	2.78E-06	76.44	68.19%
112	7.07	1.95	9.02	27.87	865.34	2.79E-06	83.09	73.02%	6.98	1.95	8.93	32.97	852.45	2.80E-06	76.54	68.28%
113	7.07	1.95	9.02	28.77	865.34	2.79E-06	83.09	73.02%	6.98	1.95	8.93	29.41	854.76	2.78E-06	76.99	68.50%
114	7.06	1.95	9.01	36.39	865.34	2.78E-06	82.85	72.81%	6.97	1.95	8.92	38.73	857.08	2.78E-06	77.22	68.52%
115	7.07	1.95	9.01	33.69	865.34	2.80E-06	82.19	72.23%	6.98	1.95	8.93	34.75	854.76	2.81E-06	77.33	68.80%
116	7.06	1.95	9.01	38.62	865.34	2.80E-06	82.19	72.23%	6.98	1.95	8.93	32.52	854.76	2.79E-06	76.32	67.90%
117	7.06	1.95	9.01	41.34	865.34	2.80E-06	82.76	72.73%	6.99	1.95	8.94	31.63	852.45	2.81E-06	76.19	67.97%
118	7.08	1.95	9.03	22.45	865.34	2.79E-06	83.08	73.01%	6.99	1.95	8.94	24.91	852.45	2.80E-06	75.97	67.77%
119	7.07	1.95	9.02	30.08	865.34	2.78E-06	82.84	72.80%	6.98	1.95	8.93	35.61	857.08	2.80E-06	76.53	67.91%
120	7.06	1.95	9.01	36.34	865.34	2.79E-06	82.51	72.51%	6.96	1.95	8.91	48.91	854.76	2.81E-06	77.32	68.79%
121	7.06	1.95	9.01	35.42	865.34	2.79E-06	81.95	72.02%	6.97	1.95	8.92	42.70	857.08	2.81E-06	77.32	68.61%
122	7.08	1.95	9.03	21.50	865.34	2.79E-06	83.08	73.01%	6.99	1.95	8.94	32.93	857.08	2.81E-06	76.18	67.60%
123	7.08	1.95	9.03	21.50	865.34	2.79E-06	83.08	73.01%	6.98	1.95	8.93	40.91	857.08	2.82E-06	75.83	67.28%

124	7.07	1.95	9.02	33.64	865.34	2.80E-06	82.75	72.72%	6.98	1.95	8.93	43.14	857.08	2.81E-06	76.18	67.59%
125	7.06	1.95	9.01	39.90	865.34	2.79E-06	81.94	72.01%	6.99	1.95	8.94	32.46	857.08	2.81E-06	76.75	68.10%
126	7.07	1.95	9.02	36.78	865.34	2.79E-06	82.51	72.51%	6.98	1.95	8.93	38.69	857.08	2.80E-06	76.52	67.90%
127	7.08	1.95	9.03	39.94	867.66	2.79E-06	81.94	71.82%	6.99	1.95	8.94	32.89	857.08	2.81E-06	76.18	67.59%
128	7.08	1.95	9.03	34.54	865.34	2.79E-06	82.50	72.51%	6.99	1.95	8.94	34.67	857.08	2.79E-06	76.30	67.70%
129	7.07	1.95	9.02	39.46	865.34	2.80E-06	82.74	72.72%	6.99	1.95	8.94	36.44	852.45	2.79E-06	75.73	67.56%
130	7.08	1.95	9.03	32.71	865.34	2.79E-06	81.94	72.01%	7.00	1.95	8.95	34.68	852.45	2.79E-06	75.73	67.56%
131	7.08	1.95	9.03	41.73	865.34	2.79E-06	81.93	72.00%	7.00	1.95	8.95	32.88	857.08	2.79E-06	75.73	67.19%
132	7.08	1.95	9.02	41.68	865.34	2.80E-06	82.17	72.21%	7.00	1.95	8.95	33.32	859.40	2.79E-06	75.73	67.01%
133	7.09	1.95	9.04	34.07	865.34	2.80E-06	82.74	72.71%	7.02	1.95	8.97	32.02	859.40	2.79E-06	75.72	67.01%
134	7.08	1.95	9.02	43.04	865.34	2.80E-06	82.74	72.71%	7.02	1.95	8.97	34.68	854.76	2.78E-06	75.50	67.17%
135	7.09	1.95	9.04	33.14	865.34	2.79E-06	81.37	71.50%	7.02	1.95	8.97	38.26	857.08	2.78E-06	75.50	66.99%
136	7.09	1.95	9.04	36.30	865.34	2.80E-06	81.60	71.71%	7.02	1.95	8.97	36.03	857.08	2.79E-06	76.29	67.69%
137	7.09	1.95	9.04	38.56	865.34	2.79E-06	81.36	71.50%	7.03	1.95	8.98	35.60	859.40	2.79E-06	75.72	67.00%
138	7.08	1.95	9.03	38.96	865.34	2.81E-06	81.84	71.92%	7.04	1.95	8.99	29.78	857.08	2.79E-06	76.28	67.68%
139	7.08	1.95	9.03	43.47	865.34	2.80E-06	82.17	72.21%	7.02	1.95	8.97	45.85	857.08	2.79E-06	76.28	67.68%
140	7.08	1.95	9.02	45.71	865.34	2.79E-06	81.93	72.00%	7.01	1.95	8.96	45.82	854.76	2.79E-06	76.28	67.87%
141	7.08	1.95	9.03	38.97	865.34	2.80E-06	82.16	72.21%	7.01	1.95	8.96	44.47	857.08	2.79E-06	76.28	67.68%

142	7.08	1.95	9.03	42.52	865.34	2.80E-06	81.59	71.71%	7.02	1.95	8.97	35.54	857.08	2.80E-06	75.93	67.37%
143	7.08	1.95	9.03	42.53	865.34	2.80E-06	81.59	71.71%	7.03	1.95	8.98	38.68	854.76	2.79E-06	75.71	67.36%
144	7.09	1.95	9.04	31.75	865.34	2.80E-06	81.59	71.71%	7.03	1.95	8.98	33.32	857.08	2.79E-06	76.84	68.18%
145	7.08	1.95	9.02	43.42	863.03	2.81E-06	82.40	72.61%	7.03	1.95	8.98	33.75	857.08	2.80E-06	77.06	68.38%
146	7.08	1.95	9.03	39.36	865.34	2.80E-06	81.59	71.70%	7.03	1.95	8.98	39.12	857.08	2.80E-06	77.06	68.38%
147	7.08	1.95	9.03	47.91	865.34	2.81E-06	81.26	71.41%	7.03	1.95	8.98	36.88	857.08	2.79E-06	75.71	67.17%
148	7.08	1.95	9.03	46.57	865.34	2.80E-06	80.46	70.70%	7.03	1.95	8.98	44.49	857.08	2.79E-06	75.71	67.17%
149	7.08	1.95	9.03	45.63	865.34	2.82E-06	82.06	72.12%	7.01	1.95	8.96	55.17	854.76	2.80E-06	76.49	68.06%
150	7.07	1.95	9.02	51.50	865.34	2.81E-06	82.39	72.41%	7.02	1.95	8.97	41.78	859.40	2.81E-06	76.72	67.89%
151	7.08	1.95	9.03	45.21	865.34	2.82E-06	81.49	71.61%	7.03	1.95	8.98	38.19	861.71	2.82E-06	76.37	67.39%
152	7.09	1.95	9.04	42.95	865.34	2.81E-06	81.82	71.90%	7.03	1.95	8.98	43.58	859.40	2.81E-06	76.71	67.88%
153	7.09	1.95	9.03	45.19	865.34	2.82E-06	81.49	71.61%	7.04	1.95	8.99	37.75	859.40	2.82E-06	75.79	67.07%
154	7.10	1.95	9.04	37.10	867.66	2.80E-06	82.15	72.00%	7.03	1.95	8.98	46.70	859.40	2.82E-06	75.22	66.56%
155	7.08	1.95	9.03	52.38	865.34	2.80E-06	82.15	72.19%	7.04	1.95	8.99	36.85	857.08	2.81E-06	75.57	67.05%
156	7.09	1.95	9.04	45.17	865.34	2.80E-06	79.88	70.20%	7.02	1.95	8.97	58.27	852.45	2.80E-06	75.35	67.22%
157	7.08	1.95	9.03	47.85	865.34	2.80E-06	81.01	71.19%	7.03	1.95	8.98	47.56	852.45	2.79E-06	75.70	67.53%
158	7.10	1.95	9.05	43.42	865.34	2.79E-06	80.77	70.99%	7.03	1.95	8.98	43.10	857.08	2.79E-06	75.70	67.17%
159	7.10	1.95	9.05	40.69	865.34	2.81E-06	81.25	71.40%	7.04	1.95	8.99	41.30	854.76	2.79E-06	75.13	66.84%

160	7.09	1.95	9.04	45.18	865.34	2.80E-06	81.58	71.69%	7.03	1.95	8.98	49.35	852.45	2.79E-06	75.13	67.02%
161	7.08	1.95	9.03	54.14	865.34	2.81E-06	82.38	72.40%	7.02	1.95	8.97	47.97	854.76	2.79E-06	75.70	67.35%
162	7.09	1.95	9.04	50.14	865.34	2.81E-06	81.81	71.90%	7.02	1.95	8.97	54.24	857.08	2.79E-06	75.70	67.16%
163	7.10	1.95	9.05	45.63	865.34	2.80E-06	80.44	70.69%	7.01	1.95	8.96	51.96	857.08	2.79E-06	76.26	67.67%
164	7.10	1.95	9.05	36.17	865.34	2.80E-06	82.14	72.18%	7.02	1.95	8.97	48.38	854.76	2.79E-06	75.13	66.84%
165	7.10	1.95	9.05	34.34	865.34	2.80E-06	81.57	71.69%	7.02	1.95	8.97	49.27	854.76	2.79E-06	74.56	66.34%
166	7.08	1.95	9.03	49.60	865.34	2.80E-06	81.00	71.19%	7.03	1.95	8.98	43.48	857.08	2.80E-06	75.35	66.85%
167	7.10	1.95	9.05	42.45	865.34	2.82E-06	80.90	71.10%	7.02	1.95	8.97	53.75	854.76	2.80E-06	75.91	67.54%
168	7.09	1.95	9.04	54.15	865.34	2.80E-06	81.00	71.19%	7.01	1.95	8.96	57.75	857.08	2.79E-06	76.26	67.66%
169	7.11	1.95	9.05	30.70	865.34	2.81E-06	81.24	71.39%	7.01	1.95	8.96	50.56	857.08	2.81E-06	76.13	67.55%
170	7.10	1.95	9.05	37.04	865.34	2.81E-06	82.37	72.39%	7.01	1.95	8.96	53.68	857.08	2.81E-06	75.57	67.05%
171	7.09	1.95	9.04	51.91	865.34	2.81E-06	82.37	72.39%	7.02	1.95	8.97	49.23	857.08	2.80E-06	75.34	66.85%
172	7.09	1.95	9.04	52.79	865.34	2.80E-06	81.56	71.68%	7.02	1.95	8.97	46.12	857.08	2.82E-06	75.21	66.73%
173	7.10	1.95	9.05	48.74	865.34	2.81E-06	81.23	71.39%	7.03	1.95	8.98	45.69	861.71	2.81E-06	74.99	66.18%
174	7.09	1.95	9.04	49.61	865.34	2.79E-06	80.76	70.97%	7.01	1.95	8.96	61.73	859.40	2.79E-06	76.25	67.48%
175	7.09	1.95	9.04	50.52	865.34	2.81E-06	81.80	71.89%	7.01	1.95	8.96	59.04	857.08	2.79E-06	75.12	66.66%
176	7.09	1.95	9.04	50.52	865.34	2.81E-06	81.23	71.39%	7.01	1.95	8.96	57.24	857.08	2.78E-06	74.34	65.96%
177	7.09	1.95	9.03	54.54	865.34	2.80E-06	81.00	71.18%	7.03	1.95	8.98	42.54	859.40	2.79E-06	75.12	66.47%

178	7.09	1.95	9.04	47.80	865.34	2.79E-06	80.76	70.97%	7.03	1.95	8.98	44.36	857.08	2.75E-06	74.58	66.17%
179	7.10	1.95	9.04	46.46	865.34	2.80E-06	82.13	72.17%	7.02	1.95	8.97	55.47	859.40	2.75E-06	74.02	65.50%
180	7.09	1.95	9.04	46.89	865.34	2.80E-06	81.56	71.68%	7.01	1.95	8.96	60.38	854.76	2.77E-06	75.02	66.75%

Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina dan Pelat Kolektor Standar Sudut 30° (Data 3)

t	Pelat Kolektor Terintegrasi Material Komposit Aluminium-Alumina								Pelat Kolektor Standar							
	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)	Ut (W/m ² K)	Ub (W/m ² K)	Ul (W/m ² K)	Qloss (W/m ²)	S (W/m ²)	V (m ³ /s)	Qn (Watt)	η (%)
0	0.00	1.95	1.95	2.34	852.52	2.78E-06	0.00	0.00%	7.08	1.95	9.03	13.08	843.18	2.77E-06	0.00	0.00%
1	5.85	1.95	7.80	-26.18	861.79	2.76E-06	26.93	23.76%	9.64	1.95	11.59	-29.67	847.82	2.84E-06	36.38	32.63%
2	6.08	1.95	8.03	-23.75	871.05	2.79E-06	44.26	38.64%	5.48	1.95	7.43	-23.09	850.13	2.74E-06	56.85	50.85%
3	6.24	1.95	8.19	-26.71	873.37	2.79E-06	51.62	44.95%	5.89	1.95	7.84	-28.72	854.76	2.85E-06	64.24	57.15%
4	6.37	1.95	8.32	-29.65	875.68	2.79E-06	55.02	47.78%	6.14	1.95	8.09	-26.02	857.08	2.78E-06	65.59	58.20%
5	6.45	1.95	8.40	-27.48	878.00	2.79E-06	57.28	49.62%	6.28	1.95	8.23	-30.62	861.71	2.73E-06	64.80	57.19%
6	6.54	1.95	8.48	-31.16	880.32	2.80E-06	60.86	52.57%	6.37	1.95	8.32	-28.92	866.35	2.82E-06	69.41	60.93%
7	6.59	1.95	8.54	-29.27	882.63	2.80E-06	63.13	54.39%	6.46	1.95	8.41	-26.30	866.35	2.74E-06	67.96	59.66%
8	6.65	1.95	8.60	-31.21	884.95	2.80E-06	65.40	56.20%	6.52	1.95	8.47	-24.42	866.35	2.82E-06	70.35	61.75%
9	6.70	1.95	8.65	-34.00	884.95	2.80E-06	67.10	57.66%	6.58	1.95	8.53	-33.57	866.35	2.82E-06	72.27	63.43%
10	6.74	1.95	8.69	-33.30	884.95	2.79E-06	69.17	59.44%	6.62	1.95	8.57	-30.73	870.98	2.77E-06	72.49	63.29%
11	6.77	1.95	8.72	-34.31	884.95	2.80E-06	70.50	60.59%	6.66	1.95	8.61	-30.45	868.66	2.82E-06	74.91	65.58%
12	6.80	1.95	8.74	-26.97	884.95	2.81E-06	72.42	62.23%	6.70	1.95	8.65	-34.50	870.98	2.78E-06	74.04	64.65%
13	6.82	1.95	8.77	-30.58	887.27	2.81E-06	72.98	62.55%	6.72	1.95	8.67	-24.66	870.98	2.84E-06	75.55	65.97%
14	6.85	1.95	8.80	-31.15	889.58	2.81E-06	72.98	62.39%	6.73	1.95	8.68	-12.10	873.30	2.82E-06	76.26	66.41%
15	6.86	1.95	8.81	-25.92	887.27	2.81E-06	74.69	64.01%	6.75	1.95	8.70	-18.67	870.98	2.75E-06	74.84	65.35%

16	6.88	1.95	8.83	-27.30	889.58	2.80E-06	75.60	64.63%	6.77	1.95	8.72	-23.07	870.98	2.76E-06	76.18	66.52%
17	6.89	1.95	8.84	-25.18	889.58	2.82E-06	76.61	65.49%	6.80	1.95	8.75	-31.04	870.98	2.82E-06	77.40	67.58%
18	6.91	1.95	8.86	-29.69	889.58	2.82E-06	77.18	65.98%	6.81	1.95	8.76	-28.05	873.30	2.86E-06	78.87	68.68%
19	6.93	1.95	8.88	-29.76	891.90	2.80E-06	77.86	66.39%	6.82	1.95	8.77	-21.95	873.30	2.83E-06	78.19	68.09%
20	6.94	1.95	8.88	-26.24	891.90	2.80E-06	78.43	66.87%	6.83	1.95	8.78	-21.12	873.30	2.77E-06	76.39	66.52%
21	6.95	1.95	8.89	-24.50	889.58	2.80E-06	79.56	68.02%	6.84	1.95	8.79	-24.24	873.30	2.78E-06	77.97	67.90%
22	6.97	1.95	8.92	-38.38	889.58	2.79E-06	80.46	68.79%	6.85	1.95	8.80	-22.53	868.66	2.81E-06	78.65	68.86%
23	6.96	1.95	8.91	-26.81	891.90	2.79E-06	80.46	68.60%	6.87	1.95	8.82	-25.68	870.98	2.84E-06	78.98	68.96%
24	6.98	1.95	8.93	-29.12	894.22	2.79E-06	80.46	68.42%	6.87	1.95	8.82	-23.07	870.98	2.83E-06	78.75	68.76%
25	6.99	1.95	8.94	-30.95	894.22	2.82E-06	81.16	69.02%	6.88	1.95	8.83	-27.08	868.66	2.86E-06	80.59	70.55%
26	6.99	1.95	8.94	-26.51	891.90	2.81E-06	80.92	69.00%	6.88	1.95	8.83	-16.49	866.35	2.82E-06	79.10	69.43%
27	7.00	1.95	8.94	-27.44	894.22	2.80E-06	81.25	69.10%	6.88	1.95	8.83	-19.15	868.66	2.76E-06	78.39	68.63%
28	7.01	1.95	8.96	-30.19	894.22	2.82E-06	82.29	69.98%	6.88	1.95	8.83	-16.53	870.98	2.78E-06	77.95	68.06%
29	7.02	1.95	8.97	-36.52	891.90	2.80E-06	81.24	69.27%	6.89	1.95	8.84	-16.56	870.98	2.82E-06	79.09	69.05%
30	7.01	1.95	8.96	-23.97	891.90	2.82E-06	82.85	70.64%	6.90	1.95	8.85	-17.05	868.66	2.83E-06	79.89	69.94%
31	7.01	1.95	8.96	-23.10	894.22	2.81E-06	82.04	69.77%	6.91	1.95	8.86	-21.94	868.66	2.84E-06	80.69	70.64%
32	7.01	1.95	8.96	-19.51	891.90	2.82E-06	83.42	71.13%	6.90	1.95	8.85	-15.76	868.66	2.82E-06	80.23	70.23%
33	7.02	1.95	8.97	-23.60	894.22	2.82E-06	82.85	70.46%	6.92	1.95	8.87	-20.24	870.98	2.82E-06	79.99	69.84%

34	7.02	1.95	8.97	-21.84	894.22	2.82E-06	82.27	69.97%	6.92	1.95	8.87	-16.72	870.98	2.78E-06	79.63	69.53%
35	7.04	1.95	8.99	-26.38	891.90	2.79E-06	82.12	70.02%	6.92	1.95	8.87	-14.54	866.35	2.76E-06	77.81	68.30%
36	7.03	1.95	8.98	-21.47	894.22	2.80E-06	82.92	70.52%	6.94	1.95	8.89	-29.24	866.35	2.74E-06	77.35	67.89%
37	7.03	1.95	8.98	-16.09	894.22	2.79E-06	82.11	69.83%	6.93	1.95	8.88	-19.02	866.35	2.79E-06	78.72	69.10%
38	7.04	1.95	8.99	-19.72	894.22	2.79E-06	82.68	70.31%	6.93	1.95	8.88	-15.02	868.66	2.83E-06	80.44	70.42%
39	7.04	1.95	8.98	-11.65	891.90	2.79E-06	82.67	70.49%	6.93	1.95	8.88	-12.38	864.03	2.85E-06	80.90	71.20%
40	7.04	1.95	8.99	-16.60	891.90	2.80E-06	83.48	71.18%	6.94	1.95	8.89	-12.87	866.35	2.85E-06	80.32	70.51%
41	7.04	1.95	8.98	-14.80	891.90	2.78E-06	83.00	70.77%	6.93	1.95	8.88	-4.88	866.35	2.83E-06	79.28	69.59%
42	7.04	1.95	8.99	-7.20	894.22	2.78E-06	83.55	71.06%	6.94	1.95	8.89	-10.68	866.35	2.82E-06	79.97	70.20%
43	7.04	1.95	8.99	-11.26	891.90	2.78E-06	84.12	71.72%	6.94	1.95	8.89	-8.92	870.98	2.79E-06	78.71	68.72%
44	7.06	1.95	9.00	-23.90	894.22	2.79E-06	83.23	70.78%	6.95	1.95	8.90	-19.18	866.35	2.78E-06	78.81	69.18%
45	7.05	1.95	8.99	-12.67	894.22	2.79E-06	83.22	70.78%	6.95	1.95	8.90	-13.42	864.03	2.78E-06	77.68	68.37%
46	7.05	1.95	8.99	-12.23	891.90	2.80E-06	84.03	71.65%	6.94	1.95	8.89	-6.32	866.35	2.78E-06	78.47	68.88%
47	7.06	1.95	9.01	-15.43	891.90	2.81E-06	83.70	71.37%	6.94	1.95	8.89	-6.32	864.03	2.83E-06	80.42	70.78%
48	7.07	1.95	9.01	-18.17	894.22	2.80E-06	84.02	71.46%	6.94	1.95	8.89	-2.78	866.35	2.83E-06	79.84	70.08%
49	7.06	1.95	9.01	-6.92	871.05	2.79E-06	83.21	72.65%	6.94	1.95	8.89	-3.69	864.03	2.86E-06	79.95	70.37%
50	7.07	1.95	9.02	-16.85	871.05	2.80E-06	84.02	73.35%	6.96	1.95	8.91	-7.28	866.35	2.86E-06	80.52	70.68%
51	7.06	1.95	9.01	-13.70	871.05	2.80E-06	84.58	73.85%	6.95	1.95	8.90	-1.96	866.35	2.83E-06	79.83	70.08%

52	7.07	1.95	9.02	-11.92	871.05	2.80E-06	84.01	73.35%	6.96	1.95	8.91	-1.52	864.03	2.75E-06	78.09	68.73%
53	7.06	1.95	9.01	-6.53	871.05	2.82E-06	84.50	73.77%	6.96	1.95	8.91	-1.09	864.03	2.81E-06	80.28	70.66%
54	7.07	1.95	9.01	-4.31	871.05	2.81E-06	84.25	73.56%	6.96	1.95	8.91	-2.02	866.35	2.79E-06	78.68	69.06%
55	7.08	1.95	9.03	-9.75	871.05	2.79E-06	83.76	73.13%	6.97	1.95	8.92	2.87	864.03	2.76E-06	78.32	68.93%
56	7.07	1.95	9.02	-4.36	871.05	2.78E-06	84.08	73.40%	6.97	1.95	8.92	-5.61	864.03	2.82E-06	80.16	70.56%
57	7.07	1.95	9.02	-7.08	871.05	2.79E-06	84.32	73.61%	6.97	1.95	8.92	0.63	866.35	2.76E-06	79.43	69.73%
58	7.07	1.95	9.01	3.72	868.73	2.78E-06	84.07	73.59%	6.97	1.95	8.92	-1.61	866.35	2.81E-06	80.27	70.46%
59	7.08	1.95	9.03	-6.67	871.05	2.78E-06	84.07	73.40%	6.97	1.95	8.92	2.37	864.03	2.81E-06	79.70	70.14%
60	7.07	1.95	9.01	8.67	871.05	2.78E-06	84.63	73.89%	6.98	1.95	8.93	-0.32	866.35	2.79E-06	79.23	69.55%
61	7.08	1.95	9.02	-0.35	871.05	2.78E-06	85.76	74.87%	6.98	1.95	8.93	-3.02	866.35	2.82E-06	79.58	69.85%
62	7.07	1.95	9.02	-0.83	871.05	2.78E-06	83.82	73.18%	6.97	1.95	8.92	7.66	866.35	2.77E-06	78.53	68.93%
63	7.07	1.95	9.02	2.76	871.05	2.78E-06	84.38	73.66%	6.98	1.95	8.93	1.86	864.03	2.80E-06	79.45	69.93%
64	7.08	1.95	9.03	3.64	871.05	2.77E-06	83.56	72.96%	6.97	1.95	8.92	9.41	861.71	2.79E-06	78.65	69.41%
65	7.09	1.95	9.03	4.52	871.05	2.78E-06	84.62	73.87%	6.98	1.95	8.93	-2.65	861.71	2.79E-06	78.65	69.41%
66	7.09	1.95	9.03	3.60	871.05	2.78E-06	84.05	73.38%	6.99	1.95	8.94	0.46	861.71	2.82E-06	79.34	70.02%
67	7.09	1.95	9.04	6.73	871.05	2.79E-06	83.73	73.10%	6.98	1.95	8.93	7.60	864.03	2.76E-06	78.29	68.91%
68	7.09	1.95	9.04	4.90	868.73	2.79E-06	83.72	73.29%	6.97	1.95	8.92	13.38	861.71	2.82E-06	79.91	70.52%
69	7.09	1.95	9.03	6.71	868.73	2.79E-06	84.85	74.28%	6.98	1.95	8.93	8.91	864.03	2.77E-06	78.52	69.11%

70	7.10	1.95	9.05	-7.76	868.73	2.79E-06	84.85	74.28%	6.98	1.95	8.93	12.90	864.03	2.79E-06	78.08	68.72%
71	7.08	1.95	9.03	7.59	868.73	2.79E-06	84.85	74.28%	6.98	1.95	8.93	15.12	861.71	2.81E-06	78.53	69.30%
72	7.09	1.95	9.04	6.67	868.73	2.79E-06	83.72	73.28%	6.97	1.95	8.92	13.76	861.71	2.78E-06	78.41	69.20%
73	7.09	1.95	9.04	7.09	868.73	2.79E-06	83.71	73.28%	6.97	1.95	8.92	19.10	864.03	2.82E-06	79.55	70.02%
74	7.09	1.95	9.04	5.28	866.42	2.79E-06	84.28	73.97%	6.99	1.95	8.94	9.28	861.71	2.77E-06	77.95	68.79%
75	7.10	1.95	9.05	1.65	868.73	2.80E-06	85.09	74.48%	6.99	1.95	8.94	16.41	861.71	2.83E-06	79.20	69.90%
76	7.09	1.95	9.04	9.30	866.42	2.80E-06	83.95	73.68%	6.98	1.95	8.93	10.15	861.71	2.77E-06	77.38	68.29%
77	7.10	1.95	9.05	4.76	866.42	2.79E-06	83.14	72.97%	6.98	1.95	8.93	15.04	861.71	2.82E-06	79.55	70.20%
78	7.09	1.95	9.04	17.86	871.05	2.80E-06	83.94	73.29%	6.98	1.95	8.93	12.80	861.71	2.77E-06	77.38	68.29%
79	7.09	1.95	9.04	13.34	868.73	2.79E-06	84.26	73.76%	6.98	1.95	8.93	11.89	864.03	2.82E-06	78.74	69.30%
80	7.09	1.95	9.04	14.24	868.73	2.80E-06	84.51	73.98%	7.00	1.95	8.95	10.99	864.03	2.78E-06	77.04	67.81%
81	7.09	1.95	9.04	17.39	866.42	2.80E-06	84.51	74.17%	7.00	1.95	8.95	11.87	861.71	2.82E-06	78.96	69.69%
82	7.09	1.95	9.04	13.29	866.42	2.80E-06	84.50	74.17%	7.00	1.95	8.95	14.09	861.71	2.78E-06	77.04	67.98%
83	7.09	1.95	9.04	18.25	866.42	2.79E-06	83.69	73.46%	7.00	1.95	8.95	10.95	861.71	2.83E-06	78.62	69.38%
84	7.10	1.95	9.05	11.91	871.05	2.80E-06	83.93	73.28%	7.00	1.95	8.95	14.51	861.71	2.78E-06	77.26	68.18%
85	7.10	1.95	9.04	17.31	866.42	2.80E-06	83.93	73.67%	7.00	1.95	8.95	10.04	861.71	2.83E-06	79.18	69.88%
86	7.10	1.95	9.05	16.39	871.05	2.80E-06	83.93	73.27%	6.99	1.95	8.94	20.30	861.71	2.78E-06	77.25	68.18%
87	7.11	1.95	9.05	16.39	871.05	2.79E-06	83.68	73.06%	6.99	1.95	8.94	20.74	861.71	2.82E-06	78.95	69.68%

88	7.10	1.95	9.05	24.05	864.10	2.79E-06	83.68	73.64%	6.99	1.95	8.94	20.29	859.40	2.81E-06	77.93	68.96%
89	7.11	1.95	9.06	10.94	866.42	2.79E-06	83.68	73.44%	7.00	1.95	8.95	12.22	859.40	2.80E-06	77.70	68.76%
90	7.11	1.95	9.06	9.59	864.10	2.79E-06	84.81	74.64%	7.00	1.95	8.95	18.03	861.71	2.79E-06	76.91	67.87%
91	7.09	1.95	9.04	21.77	866.42	2.79E-06	83.68	73.44%	7.01	1.95	8.96	15.33	861.71	2.83E-06	77.45	68.35%
92	7.11	1.95	9.06	7.30	866.42	2.79E-06	83.67	73.44%	7.00	1.95	8.95	19.34	861.71	2.78E-06	76.68	67.67%
93	7.11	1.95	9.06	16.33	866.42	2.79E-06	83.67	73.44%	7.00	1.95	8.95	24.26	861.71	2.83E-06	78.60	69.36%
94	7.10	1.95	9.05	19.92	864.10	2.79E-06	83.67	73.63%	7.00	1.95	8.95	22.90	861.71	2.79E-06	77.47	68.36%
95	7.11	1.95	9.05	18.56	864.10	2.80E-06	83.91	73.85%	7.00	1.95	8.95	19.32	859.40	2.84E-06	78.82	69.75%
96	7.10	1.95	9.05	23.95	866.42	2.79E-06	83.10	72.94%	7.00	1.95	8.95	22.44	859.40	2.79E-06	77.47	68.55%
97	7.10	1.95	9.04	29.81	864.10	2.79E-06	83.66	73.63%	7.00	1.95	8.95	25.10	861.71	2.78E-06	76.67	67.66%
98	7.11	1.95	9.06	21.69	866.42	2.79E-06	84.22	73.93%	7.01	1.95	8.96	16.61	859.40	2.79E-06	77.46	68.54%
99	7.11	1.95	9.06	21.68	866.42	2.78E-06	83.98	73.71%	7.01	1.95	8.96	15.26	861.71	2.83E-06	78.59	69.35%
100	7.11	1.95	9.06	23.47	866.42	2.80E-06	83.33	73.14%	7.01	1.95	8.96	23.73	859.40	2.82E-06	77.22	68.33%
101	7.11	1.95	9.06	15.32	864.10	2.79E-06	83.65	73.62%	7.01	1.95	8.96	17.91	861.71	2.81E-06	78.47	69.25%
102	7.12	1.95	9.06	12.61	866.42	2.78E-06	83.41	73.21%	7.02	1.95	8.97	17.46	859.40	2.81E-06	77.34	68.43%
103	7.11	1.95	9.06	19.39	861.79	2.79E-06	84.22	74.32%	7.01	1.95	8.96	16.55	857.08	2.78E-06	77.23	68.52%
104	7.10	1.95	9.05	27.50	864.10	2.79E-06	83.08	73.12%	7.00	1.95	8.95	26.38	857.08	2.79E-06	77.45	68.72%
105	7.10	1.95	9.05	30.65	866.42	2.79E-06	83.65	73.42%	7.01	1.95	8.96	17.89	857.08	2.78E-06	76.44	67.82%

106	7.11	1.95	9.06	27.94	866.42	2.80E-06	83.89	73.63%	7.00	1.95	8.95	28.59	859.40	2.78E-06	77.22	68.33%
107	7.11	1.95	9.06	28.81	866.42	2.79E-06	83.64	73.41%	7.01	1.95	8.96	27.25	857.08	2.77E-06	76.77	68.12%
108	7.12	1.95	9.07	23.85	866.42	2.79E-06	83.08	72.92%	7.02	1.95	8.97	21.44	859.40	2.79E-06	77.44	68.53%
109	7.12	1.95	9.07	26.10	864.10	2.78E-06	82.83	72.90%	7.01	1.95	8.96	28.13	857.08	2.76E-06	76.54	67.91%
110	7.12	1.95	9.06	22.47	864.10	2.79E-06	83.64	73.61%	7.02	1.95	8.97	26.36	859.40	2.80E-06	77.67	68.73%
111	7.11	1.95	9.06	29.70	861.79	2.79E-06	84.20	74.30%	7.02	1.95	8.97	28.59	857.08	2.75E-06	76.31	67.71%
112	7.11	1.95	9.06	32.88	875.68	2.79E-06	84.20	73.12%	7.02	1.95	8.97	33.05	857.08	2.77E-06	76.20	67.61%
113	7.12	1.95	9.07	28.80	857.15	2.79E-06	84.20	74.70%	7.01	1.95	8.96	26.76	859.40	2.82E-06	77.77	68.82%
114	7.11	1.95	9.06	32.39	857.15	2.78E-06	83.39	73.98%	7.02	1.95	8.97	24.99	859.40	2.78E-06	77.78	68.82%
115	7.11	1.95	9.06	31.92	857.15	2.78E-06	83.95	74.48%	7.01	1.95	8.96	29.43	859.40	2.78E-06	77.77	68.82%
116	7.11	1.95	9.06	36.88	857.15	2.79E-06	83.63	74.20%	7.02	1.95	8.97	29.45	864.03	2.78E-06	77.21	67.95%
117	7.11	1.95	9.06	34.16	857.15	2.79E-06	82.50	73.19%	7.02	1.95	8.97	30.78	859.40	2.78E-06	76.42	67.62%
118	7.11	1.95	9.06	32.33	859.47	2.79E-06	81.93	72.49%	7.03	1.95	8.98	29.45	859.40	2.79E-06	77.43	68.52%
119	7.12	1.95	9.06	33.24	859.47	2.79E-06	82.49	72.99%	7.02	1.95	8.97	31.66	861.71	2.78E-06	76.98	67.93%
120	7.12	1.95	9.07	27.82	857.15	2.78E-06	83.38	73.97%	7.03	1.95	8.98	31.23	859.40	2.76E-06	76.52	67.72%
121	7.12	1.95	9.07	26.00	857.15	2.78E-06	83.38	73.97%	7.04	1.95	8.99	24.07	859.40	2.78E-06	76.98	68.11%
122	7.11	1.95	9.05	39.54	857.15	2.78E-06	83.38	73.97%	7.02	1.95	8.97	38.80	861.71	2.78E-06	77.54	68.43%
123	7.11	1.95	9.06	36.38	857.15	2.78E-06	83.38	73.97%	7.02	1.95	8.97	42.83	861.71	2.76E-06	77.08	68.03%

124	7.12	1.95	9.07	31.86	857.15	2.78E-06	82.81	73.47%	7.02	1.95	8.97	36.58	861.71	2.78E-06	77.76	68.63%
125	7.11	1.95	9.06	39.52	857.15	2.78E-06	82.81	73.47%	7.03	1.95	8.98	31.20	861.71	2.76E-06	75.96	67.04%
126	7.11	1.95	9.06	37.68	859.47	2.78E-06	82.00	72.56%	7.03	1.95	8.98	32.09	859.40	2.78E-06	76.41	67.61%
127	7.11	1.95	9.06	35.43	857.15	2.78E-06	82.24	72.97%	7.02	1.95	8.97	37.88	859.40	2.79E-06	76.86	68.01%
128	7.12	1.95	9.07	32.26	857.15	2.78E-06	82.24	72.96%	7.03	1.95	8.98	30.29	859.40	2.78E-06	77.53	68.61%
129	7.12	1.95	9.07	33.62	857.15	2.78E-06	82.80	73.46%	7.02	1.95	8.97	41.45	859.40	2.81E-06	77.30	68.40%
130	7.11	1.95	9.06	40.38	854.84	2.78E-06	82.00	72.95%	7.02	1.95	8.97	40.99	859.40	2.77E-06	76.18	67.41%
131	7.12	1.95	9.07	38.13	857.15	2.78E-06	82.80	73.46%	7.03	1.95	8.98	33.83	859.40	2.79E-06	77.98	69.00%
132	7.13	1.95	9.08	38.60	857.15	2.78E-06	82.80	73.46%	7.03	1.95	8.98	35.63	857.08	2.82E-06	78.09	69.29%
133	7.13	1.95	9.07	27.27	854.84	2.79E-06	83.60	74.37%	7.03	1.95	8.98	33.82	857.08	2.77E-06	76.74	68.09%
134	7.13	1.95	9.08	32.73	852.52	2.78E-06	83.92	74.86%	7.02	1.95	8.97	42.30	857.08	2.78E-06	76.40	67.79%
135	7.12	1.95	9.07	33.13	854.84	2.78E-06	82.80	73.66%	7.02	1.95	8.97	38.73	859.40	2.80E-06	77.64	68.70%
136	7.12	1.95	9.06	38.09	852.52	2.78E-06	82.23	73.35%	7.03	1.95	8.98	41.43	857.08	2.79E-06	77.41	68.69%
137	7.12	1.95	9.06	38.96	854.84	2.78E-06	80.30	71.44%	7.03	1.95	8.98	38.29	859.40	2.76E-06	75.95	67.21%
138	7.12	1.95	9.07	38.99	857.15	2.78E-06	81.66	72.45%	7.03	1.95	8.98	39.16	857.08	2.78E-06	76.40	67.79%
139	7.13	1.95	9.08	34.47	854.84	2.78E-06	81.43	72.44%	7.01	1.95	8.96	46.29	857.08	2.81E-06	77.29	68.58%
140	7.13	1.95	9.08	41.26	854.84	2.78E-06	81.98	72.93%	7.01	1.95	8.96	52.07	861.71	2.78E-06	75.83	66.92%
141	7.13	1.95	9.08	37.19	857.15	2.78E-06	82.54	73.23%	7.02	1.95	8.97	44.94	861.71	2.78E-06	76.96	67.91%

142	7.12	1.95	9.07	48.03	857.15	2.77E-06	82.30	73.02%	7.02	1.95	8.97	42.26	857.08	2.79E-06	76.84	68.18%
143	7.14	1.95	9.09	29.03	854.84	2.76E-06	82.06	73.00%	7.02	1.95	8.97	47.19	857.08	2.80E-06	77.06	68.38%
144	7.13	1.95	9.08	37.64	857.15	2.78E-06	83.11	73.73%	7.01	1.95	8.96	48.03	859.40	2.78E-06	76.39	67.60%
145	7.12	1.95	9.07	47.54	857.15	2.78E-06	82.78	73.45%	7.02	1.95	8.97	48.50	859.40	2.75E-06	76.28	67.50%
146	7.13	1.95	9.08	39.89	857.15	2.78E-06	82.22	72.95%	7.02	1.95	8.97	45.82	859.40	2.79E-06	76.27	67.49%
147	7.12	1.95	9.07	44.84	857.15	2.78E-06	82.22	72.94%	7.03	1.95	8.98	38.68	859.40	2.79E-06	76.27	67.49%
148	7.12	1.95	9.07	46.18	857.15	2.79E-06	81.89	72.66%	7.03	1.95	8.98	41.81	861.71	2.78E-06	76.61	67.61%
149	7.13	1.95	9.08	41.20	857.15	2.79E-06	81.89	72.66%	7.02	1.95	8.97	48.94	859.40	2.77E-06	75.04	66.40%
150	7.13	1.95	9.08	40.74	857.15	2.78E-06	81.65	72.44%	7.02	1.95	8.97	49.37	857.08	2.78E-06	76.39	67.78%
151	7.13	1.95	9.08	44.81	857.15	2.83E-06	83.65	74.22%	7.01	1.95	8.96	51.13	859.40	2.80E-06	76.49	67.69%
152	7.12	1.95	9.07	47.50	857.15	2.81E-06	81.80	72.57%	7.02	1.95	8.97	47.54	859.40	2.78E-06	74.70	66.10%
153	7.13	1.95	9.08	43.00	857.15	2.81E-06	82.36	73.07%	7.02	1.95	8.97	45.33	859.40	2.77E-06	75.04	66.40%
154	7.13	1.95	9.08	47.51	857.15	2.80E-06	82.69	73.36%	7.02	1.95	8.97	52.02	857.08	2.80E-06	74.79	66.36%
155	7.13	1.95	9.08	42.53	854.84	2.79E-06	81.89	72.85%	7.02	1.95	8.97	52.01	859.40	2.77E-06	74.48	65.90%
156	7.13	1.95	9.08	44.79	854.84	2.81E-06	82.93	73.78%	7.01	1.95	8.96	53.79	859.40	2.81E-06	76.14	67.38%
157	7.13	1.95	9.08	43.42	857.15	2.78E-06	82.21	72.94%	7.02	1.95	8.97	51.98	859.40	2.78E-06	74.13	65.60%
158	7.14	1.95	9.08	40.71	857.15	2.78E-06	81.40	72.22%	7.03	1.95	8.98	42.17	859.40	2.79E-06	75.13	66.48%
159	7.13	1.95	9.08	45.67	854.84	2.78E-06	81.40	72.42%	7.03	1.95	8.98	42.19	857.08	2.79E-06	75.70	67.16%

160	7.13	1.95	9.08	40.68	854.84	2.77E-06	81.72	72.70%	7.02	1.95	8.97	48.44	857.08	2.78E-06	75.26	66.77%
161	7.13	1.95	9.08	47.04	857.15	2.77E-06	82.28	73.00%	7.02	1.95	8.97	50.23	857.08	2.79E-06	76.26	67.67%
162	7.13	1.95	9.07	50.63	854.84	2.79E-06	82.44	73.34%	7.03	1.95	8.98	45.75	861.71	2.77E-06	74.47	65.72%
163	7.13	1.95	9.08	57.87	852.52	2.80E-06	82.11	73.25%	7.02	1.95	8.97	52.89	861.71	2.81E-06	75.57	66.69%
164	7.14	1.95	9.09	46.13	854.84	2.78E-06	81.64	72.62%	7.03	1.95	8.98	49.33	859.40	2.77E-06	75.03	66.40%
165	7.14	1.95	9.09	44.32	857.15	2.78E-06	81.40	72.21%	7.03	1.95	8.98	46.65	859.40	2.81E-06	75.57	66.87%
166	7.14	1.95	9.09	45.20	854.84	2.76E-06	80.92	71.99%	7.04	1.95	8.99	39.50	859.40	2.77E-06	74.47	65.90%
167	7.13	1.95	9.08	52.88	854.84	2.78E-06	82.76	73.62%	7.02	1.95	8.97	58.25	859.40	2.81E-06	76.13	67.37%
168	7.13	1.95	9.08	50.61	854.84	2.78E-06	82.76	73.62%	7.02	1.95	8.97	58.27	861.71	2.78E-06	75.25	66.41%
169	7.13	1.95	9.08	45.61	854.84	2.78E-06	82.20	73.12%	7.03	1.95	8.98	44.86	857.08	2.80E-06	75.91	67.36%
170	7.12	1.95	9.07	51.48	854.84	2.77E-06	81.71	72.69%	7.03	1.95	8.98	50.65	859.40	2.78E-06	74.13	65.59%
171	7.13	1.95	9.07	47.84	854.84	2.76E-06	80.91	71.98%	7.03	1.95	8.98	50.23	859.40	2.79E-06	75.12	66.48%
172	7.13	1.95	9.08	48.31	854.84	2.78E-06	81.63	72.62%	7.03	1.95	8.98	52.43	857.08	2.78E-06	74.91	66.46%
173	7.13	1.95	9.08	51.48	854.84	2.78E-06	80.83	71.90%	7.02	1.95	8.97	54.22	859.40	2.79E-06	75.69	66.98%
174	7.14	1.95	9.09	44.71	854.84	2.78E-06	81.39	72.40%	7.03	1.95	8.98	43.46	859.40	2.78E-06	75.47	66.78%
175	7.13	1.95	9.08	49.67	850.20	2.78E-06	81.63	73.01%	7.03	1.95	8.98	47.51	857.08	2.78E-06	74.68	66.27%
176	7.13	1.95	9.08	50.13	852.52	2.78E-06	82.19	73.32%	7.03	1.95	8.98	52.88	857.08	2.79E-06	75.69	67.15%
177	7.12	1.95	9.07	53.24	854.84	2.77E-06	81.15	72.19%	7.04	1.95	8.99	44.82	859.40	2.76E-06	73.69	65.20%

178	7.13	1.95	9.07	50.54	852.52	2.77E-06	81.71	72.89%	7.03	1.95	8.98	50.65	857.08	2.78E-06	75.46	66.96%
179	7.12	1.95	9.07	62.72	854.84	2.77E-06	81.71	72.69%	7.04	1.95	8.99	39.44	857.08	2.77E-06	75.58	67.06%
180	7.13	1.95	9.07	54.15	852.52	2.76E-06	81.46	72.67%	7.02	1.95	8.97	55.06	861.71	2.80E-06	75.91	66.99%

Lampiran 9.

Dokumentasi



Pelat kolektor



Material komposit Aluminium-Alumina



Proses pengambilan data menggunakan alat Solar Thermal Energy Gunt ET-202