

[d = 400 μm, a = 10 μm]

a = 10 μm: 1/17

Efficiency, e_n

[d = 400 μm, a = 10 μm]

Incidence angle, θ_{in} [mrad]	$n = -2$	$n = -1$
	Efficiency, e_n	
0.44455429	0	0
0.467733971	0	0
0.489439925	0	0
0.513603484	0	0
0.521969496	0	0
0.556171333	0	0
0.580286582	0	0
0.603940127	0	0
0.624900228	0	0
0.638450051	0	0
0.67374614	0	0
0.697633592	0	0
0.722611166	0	0
0.747248217	0	0
0.759081164	0	0
0.795048872	0	0.0001298
0.827135716	0	0.0076575
0.848670285	0	0.0100503
0.870993008	0	0.0094601
0.883915077	0	0.0086178
0.92131939	0	0.00664
0.944708347	0	0.0054257
0.968500419	0	0.0044608
0.984135576	0	0.003682
1.007133558	0	0.0032158
1.039825403	0	0.0021169
1.068124781	0	0.0016019
1.093339214	0	0.0011329
1.117159453	0	0.0008061
1.123311245	0	0.0007408
1.140996256	0.000111535	0.0006119
1.184838437	0.004972168	0.0009333
1.208087064	0.004762805	0.0010112
1.234183747	0.003741442	0.0010082
1.255257409	0.002979169	0.0009085
1.272257422	0.002273271	0.0007571
1.280779202	0.00200402	0.0007604
1.317241372	0.0014088	0.0005759
1.343115034	0.001008263	0.0004637
1.36787399	0.000705071	0.0003524

[d = 400 μm , a = 10 μm]

a = 10 μm : 2/17

Efficiency, e_n

1.391944918	0.000499688	0.0003072
1.41866558	0.000466356	0.0002537
1.425855813	0.000492137	0.0002774
1.450218775	0.000667225	0.0003805
1.48628723	0.000640732	0.0003597
1.509288932	0.000541486	0.0002666
1.533135442	0.000501381	0.0002868
1.562883151	0.000398217	0.0002646
1.563251423	0.000357773	0.0002269
1.598322266	0.000276821	0.0001943
1.641621218	0.000145276	9.399E-05
1.665188308	0.000290246	0.0001912
1.690065377	0.000283257	0.0001799
1.685824094	0.000276676	0.0001618
1.740734539	0.000253812	0.0001494
1.766543576	0.000208186	0.0001351
1.777051815	0.000154107	0.0001013
1.802076052	0.000162449	0.0001011
1.845703084	0.000140752	0.000108
1.868411643	0.000141969	0.0001068
1.870014808	0.000141987	0.0001036
1.905846276	0.000147488	8.758E-05
1.938824386	0.000143046	6.664E-05
1.961145507	9.07378E-05	6.64E-05
1.966588315	8.49554E-05	5.508E-05
2.027910167	5.27615E-05	4.663E-05
2.033337315	8.90379E-05	4.446E-05
2.041844502	6.61881E-05	4.899E-05
2.082182933	7.24876E-05	3.013E-05
2.102419293	6.7246E-05	3.859E-05
2.133628115	5.6969E-05	2.885E-05
2.183619475	3.63576E-05	2.214E-05
2.209530302	5.30863E-05	3.808E-05

[d = 400 μm, a = 30 μm]

a = 30 μm: 3/17

Efficiency, e_n

[d = 400 μm, a = 30 μm]

Incidence angle, θ_{in} [mrad]	$n = -2$	$n = -1$
	Efficiency, e_n	
0.456583713	0	0
0.480893916	0	0
0.503695615	0	0
0.525155476	0	0
0.549563114	0	0
0.572552936	0	0
0.593667808	0	0
0.61705282	0	0
0.637470437	0	0
0.662789015	0	0
0.687877749	0	0
0.711789689	0	0
0.733865099	0	0
0.753780276	0	0
0.786832969	0	1.96E-04
0.816456869	0	0.0061893
0.837990576	0	0.0165487
0.862079379	0	0.0179426
0.880383783	0	0.0171499
0.901611746	0	0.0151109
0.93290722	0	0.0122908
0.955188299	0	0.0107066
0.977990842	0	0.0092813
1.002913863	0	0.007665
1.018013741	0	0.0067518
1.052561493	0	0.0047362
1.074574688	0	0.0038494
1.099948728	0	0.0029574
1.121370303	0	0.0023548
1.136993126	3.17E-04	0.0020119
1.173734263	0.007509309	0.0022855
1.197403881	0.009630976	0.0028388
1.221184953	0.008828938	0.0030078
1.245604518	0.007744286	0.0029319
1.25764057	0.007033126	0.0028822
1.272770304	0.006055245	0.0027628
1.300292866	0.004617425	0.0023974
1.322588942	0.003681187	0.0021596
1.344497059	0.002904978	0.0018482
1.357955162	0.002494093	0.0016911

[d = 400 μm , a = 30 μm]

a = 30 μm : 4/17

Efficiency, e_n

1.391120377	0.001706651	0.0012611
1.420372511	0.001507757	0.0012201
1.44229613	0.001890883	0.0013839
1.460977729	0.002132069	0.0015916
1.48534399	0.002156305	0.0016883
1.513501505	0.002045852	0.0015046
1.539217801	0.00187213	0.0014578
1.558278592	0.001702671	0.0012979
1.569630266	0.001569406	0.001247
1.606000826	0.001180834	9.23E-04
1.634725213	9.94E-04	8.23E-04
1.662478659	0.0011225	9.44E-04
1.683199545	0.001251475	0.0010514
1.707128342	0.00123515	0.0010552
1.739922521	0.001220997	0.001013
1.764461046	0.001153955	9.34E-04
1.786517604	0.001028809	7.89E-04
1.801216889	9.15E-04	8.16E-04
1.819991545	7.74E-04	5.60E-04
1.844710751	7.32E-04	6.32E-04
1.869255594	8.73E-04	6.85E-04
1.895330049	8.90E-04	7.36E-04
1.922154	8.45E-04	7.37E-04
1.948273821	8.27E-04	5.60E-04
1.9696699	7.22E-04	7.00E-04
1.993908361	7.30E-04	5.07E-04
2.027560491	4.64E-04	3.73E-04
2.052102879	5.37E-04	4.11E-04
2.07770215	5.35E-04	3.55E-04

[d = 400 μm , a = 70 μm]a = 70 μm : 5/17Efficiency, e_n [d = 400 μm , a = 70 μm]

Incidence angle, θ_{in} [mrad]	$n = -2$	$n = -1$
	Efficiency, e_n	
0.450157043	0	0
0.476848569	0	0
0.501245821	0	0
0.524889665	0	0
0.549472327	0	0
0.571624303	0	0
0.594024874	0	0
0.61056388	0	0
0.641607085	0	0
0.665335164	0	0
0.687963609	0	0
0.711854682	0	0
0.73229399	0	0
0.765641296	0	0
0.791370726	0	3.63E-04
0.820423648	0	0.0069792
0.844663324	0	0.021142
0.86255551	0	0.0259456
0.898358811	0	0.0246556
0.923197054	0	0.0220992
0.946485839	0	0.0211659
0.969420362	0	0.0200619
0.984233639	0	0.0205008
1.009710682	0	0.0186824
1.042056011	0	0.014361
1.066524143	0	0.0123515
1.090186825	0	0.0103668
1.111620985	0	0.0090923
1.127136044	0	0.0079898
1.167413745	5.04E-03	0.0058725
1.191797256	0.011419792	0.0068585
1.214123532	0.013129514	0.0077393
1.234497359	0.013309278	0.0084309
1.249491423	0.013288047	0.0087494
1.287333013	0.011132499	0.0085724
1.311681276	0.009706747	0.0083986
1.337370561	0.008618099	0.008037
1.360846112	0.007409022	0.0076263
1.371450045	0.006851265	0.0073199
1.398342116	0.00543235	0.0063606

[d = 400 μm , a = 70 μm]

a = 70 μm : 6/17

Efficiency, e_n

1.41828115	0.004312891	0.0055713
1.441643879	0.004242232	0.0053273
1.466673112	0.004841359	0.0056449
1.484668667	0.005081943	0.0057481
1.498242977	0.005386819	0.005844
1.532548396	0.005619933	0.005886
1.556295748	0.005449317	0.0059194
1.580631179	0.005361857	0.0058989
1.602207532	0.005034241	0.00575
1.624588253	0.004624578	5.49E-03
1.649684566	4.03E-03	4.89E-03
1.678146479	0.003723417	4.33E-03
1.703023248	0.003856155	0.0045301
1.727742817	0.003946593	0.004398
1.75534635	0.004060475	0.0042701
1.782440785	0.004090763	4.37E-03
1.806760373	0.003938908	4.33E-03
1.830570444	3.84E-03	4.25E-03
1.850125422	3.61E-03	3.68E-03
1.871256639	3.31E-03	3.84E-03
1.897966909	2.96E-03	3.54E-03
1.922948857	2.98E-03	3.16E-03
1.94990813	2.93E-03	3.06E-03
1.97651422	3.10E-03	3.01E-03
2.000486446	2.87E-03	2.92E-03
2.027442529	3.13E-03	2.85E-03
2.052249102	2.85E-03	2.66E-03
2.075385928	2.71E-03	2.53E-03
2.106100878	2.37E-03	1.84E-03

[d = 400 μm, a = 100 μm]

a = 100 μm: 7/17

Efficiency, e_n

[d = 400 μm, a = 100 μm]

Incidence angle, θ_{in} [mrad]	Efficiency, e_n	
	$n = -2$	$n = -1$
0.414009739	0	0
0.43090234	0	0
0.44859202	0	0
0.46456	0	0
0.481924359	0	0
0.496718161	0	0
0.514778142	0	0
0.540334642	0	0
0.564966571	0	0
0.58243771	0	0
0.611051929	0	0
0.637030818	0	0
0.658436646	0	0
0.674859935	0	0
0.70092302	0	0.00E+00
0.732666848	0	0
0.751390063	0	0
0.772685401	0	2.32E-04
0.786265704	0	0.0025613
0.830697716	0	0.0262285
0.850195186	0	0.0353086
0.871294423	0	0.0379956
0.882018596	0	0.0356313
0.919775614	0	0.0334976
0.941705473	0	0.0324789
0.962225174	0	0.0314555
0.981677584	0	0.0308889
1.012603985	0	0.0257841
1.037166455	0	0.0233597
1.048679037	0.00E+00	0.0221246
1.076705479	0	0.0190635
1.106669049	0	0.0156144
1.128733213	4.78E-04	0.0133657
1.140727563	0.002566879	0.012182
1.180228501	0.00985645	0.0121702
1.207267864	0.011792973	0.0131486
1.228971977	0.012129086	0.013714
1.236335972	0.01311682	0.0144087
1.276919113	0.012106976	0.014568
1.302342983	0.011033998	0.0142548

[d = 400 μm, a = 100 μm]

a = 100 μm: 8/17

Efficiency, e_n

1.325591652	0.010230918	0.0146144
1.336037739	0.00985669	0.0146727
1.372262421	0.008549035	0.0136566
1.404525842	0.006466865	0.0124435
1.421422044	0.005967049	0.0118315
1.44661474	0.005688831	0.0113255
1.468125838	0.005712698	0.0110401
1.491922658	0.005905156	0.0107302
1.498437944	0.005970756	0.0105771
1.527700994	0.006027197	1.01E-02
1.552801295	6.16E-03	9.83E-03
1.576636297	0.00624964	1.01E-02
1.599724007	0.006397733	0.0101469
1.623116729	0.006179955	0.0106287
1.643519352	0.005875575	0.0100629
1.664401943	0.005478267	9.52E-03
1.69203328	0.00507004	8.72E-03
1.718183136	4.95E-03	8.42E-03
1.747030951	4.68E-03	7.58E-03
1.763478364	4.62E-03	7.33E-03
1.797847641	4.50E-03	6.97E-03
1.818933475	4.77E-03	7.03E-03
1.839110787	4.78E-03	7.26E-03
1.870244214	4.66E-03	7.37E-03
1.89663733	4.33E-03	6.62E-03
1.918102377	4.01E-03	6.03E-03
1.939168554	4.46E-03	6.55E-03
1.968367887	3.75E-03	6.26E-03
1.987251567	3.66E-03	5.07E-03
1.996947806	0.00368915	0.0044195
2.0360878	0.003645395	0.0043965
2.059414993	0.003751168	0.003996
2.07026408	0.003655283	0.004314
2.111861142	0.003594195	0.0046763
2.135677113	0.003242805	0.0039717
2.146970193	0.003191992	0.0037228
2.187057101	0.003004117	0.0028922
2.208133964	0.003251601	0.0030494
2.228151736	0.002626419	0.0029744
2.260945712	0.002895442	0.0030323
2.278968864	0.002568983	0.0042473
2.302391718	0.004595366	0.003362
2.330986904	0.003246136	0.0034403

[d = 400 μm , a = 100 μm]

a = 100 μm : 9/17

Efficiency, e_n

2.349882983		0.002448092	0.0038767
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[d = 400 μm , a = 300 μm]a = 300 μm : 10/17Efficiency, e_n [d = 400 μm , a = 300 μm]

Incidence angle, θ_{in} [mrad]	$n = -2$	$n = -1$
	Efficiency, e_n	
0.481856291	0	0
0.509111029	0	0
0.543317136	0	0
0.563806089	0	0
0.589665484	0	0
0.614450948	0	0
0.634628185	0	0
0.669251957	0	0
0.691326624	0	0
0.711945624	0	0
0.731227384	0	0
0.76161835	0	0
0.784994395	0	0
0.808399178	0	8.42E-04
0.842709645	0	4.34E-03
0.860585608	0	0.0056413
0.87937415	0	0.0066458
0.917995034	0	0.0080664
0.932191255	0	0.0090165
0.94993327	0	0.0096393
0.977456288	0	0.0104716
1.010844478	0	0.0110793
1.029116249	0	0.0116591
1.04838092	0	0.012224
1.08465843	0	0.0127675
1.098794439	0	0.013035
1.122071718	0	0.0135559
1.160914789	0.002177084	0.0142001
1.178058831	0.004377596	0.0140206
1.197655768	5.75E-03	0.0138379
1.23367083	0.006707199	0.014437
1.25455949	0.007401832	0.013703
1.278997199	0.007832794	0.0140123
1.297851927	0.007725035	0.0138318
1.309985732	0.007920806	0.0134657
1.346748421	0.008419175	0.0134782
1.369752401	0.008419096	0.0131491
1.392661556	0.00882008	0.0133396
1.413922718	0.008712027	0.0126062
1.430186262	0.008689573	0.012192

Efficiency, e_n

1.453925648	0.008203763	0.0117537
1.479222883	0.008122151	0.0113923
1.50744381	0.007803238	0.0110913
1.534268341	0.007382746	0.0105991
1.558526946	0.007182215	0.0101516
1.580724417	0.007063154	0.0098692
1.607314465	0.00675576	0.0095238
1.630257971	0.006508684	0.0087785
1.653725104	0.00622125	0.0084832
1.67962627	0.005788696	8.41E-03
1.705963715	5.45E-03	7.91E-03
1.728269466	0.005216951	8.16E-03
1.752108232	0.004953644	0.0073646
1.775877597	0.004791442	0.0073136
1.800130311	0.004548651	0.0072742
1.825488519	0.004289987	7.13E-03
1.853799535	0.004143888	7.10E-03
1.879802113	4.13E-03	0.00E+00
1.889558157	3.97E-03	0.00E+00
1.925846535	3.89E-03	0.00E+00
1.945134116	3.71E-03	0.00E+00
1.970135707	3.60E-03	0.00E+00
1.995447131	3.51E-03	0.00E+00
2.011174684	3.38E-03	0.00E+00
2.044187891	3.50E-03	0.00E+00
2.064674464	3.27E-03	0.00E+00
2.088552013	3.34E-03	0.00E+00
2.111357541	3.47E-03	0.00E+00
2.145797028	3.24E-03	0.00E+00
2.166290918	0.003494695	0
2.187213341	0.003520164	0
2.210185986	0.003118171	0
2.243346601	0.003218655	0
2.265110554	0.003245425	0
2.290257051	0.003045152	0
2.316370471	0.003018077	0
2.338037125	0.003060412	0
2.375848917	0.003085045	0

[d = 400 μm , a = 330 μm]a = 330 μm : 12/17Efficiency, e_n [d = 400 μm , a = 330 μm]

Incidence angle, θ_{in} [mrad]	$n = -2$	$n = -1$
	Efficiency, e_n	
0.483488478	0	0
0.5013971	0	0
0.522249374	0	0
0.547009325	0	0
0.576310654	0	0
0.595488252	0	0
0.617544017	0	0
0.639785782	0	0
0.670117219	0	0
0.688873435	0	0
0.712742658	0	0
0.735033609	0	0
0.766568799	0	0
0.7873996	0	0
0.810540818	0	2.06E-04
0.830315499	0	0.001238
0.863388651	0	0.0024512
0.8824283	0	0.0030761
0.90365179	0	0.0035532
0.938000671	0	0.0042956
0.95823857	0	0.0043309
0.97856939	0	0.0047871
1.000014345	0	0.0049932
1.037487423	0	0.0054345
1.05655195	0	0.0058281
1.07821371	0	0.0059002
1.104035784	0	0.0062208
1.121700999	0	0.0061854
1.164683794	8.42E-04	0.0069412
1.189315424	2.42E-03	0.0070499
1.210075881	0.003176003	0.0072015
1.230470703	0.003713664	0.0071983
1.255509808	0.004472139	0.0069488
1.290667564	0.004680916	0.0072472
1.312212018	0.005113831	0.0070756
1.334695333	0.005451783	0.0071162
1.355899789	0.005648231	0.0069646
1.377243133	0.005881939	0.0069685
1.417911156	0.006077245	0.0074052
1.438208821	0.006190288	0.0071734

Efficiency, e_n

1.451491231	0.006269103	0.0068518
1.468946609	0.006157163	0.0065642
1.497612153	0.006192424	0.0064596
1.530820013	0.006243695	0.0063646
1.549339746	0.006286626	0.0063317
1.575072733	0.006327006	0.0064598
1.599044251	0.006189676	0.0063401
1.640425955	0.005960515	0.0061812
1.658235748	0.005960879	0.0060511
1.68452993	0.005686353	5.88E-03
1.710865781	5.69E-03	5.63E-03
1.747020252	0.005385354	5.37E-03
1.766590921	0.005251165	0
1.791637202	0.005067	0
1.814976602	0.004887933	0
1.835267436	0.00459499	0.00E+00
1.870898148	0.004296957	0.00E+00
1.894247413	4.13E-03	0.00E+00
1.917610482	3.96E-03	0.00E+00
1.936347577	3.92E-03	0.00E+00
1.97449872	3.69E-03	0.00E+00
1.994564388	3.48E-03	0.00E+00
2.016382882	3.18E-03	0.00E+00
2.050260296	3.51E-03	0.00E+00
2.069319069	3.17E-03	0.00E+00
2.089197047	3.10E-03	0.00E+00
2.124622423	2.63E-03	0.00E+00
2.144666886	2.73E-03	0.00E+00
2.167082385	2.61E-03	0.00E+00
2.187116231	0.002572384	0
2.227845469	0.002137629	0
2.248833404	0.002319849	0
2.270072807	0.001754387	0
2.306185386	0.001870434	0
2.32470135	0.002088946	0
2.347758131	0.002050596	0
2.373337307	0.002091891	0
2.409185897	0.0021342	0

[d = 400 μm, a = 370 μm]

a = 370 μm: 14/17

Efficiency, e_n

[d = 400 μm, a = 370 μm]

Incidence angle, θ_{in} [mrad]	$n = -2$	$n = -1$
	Efficiency, e_n	
0.471119154	0	0
0.498222294	0	0
0.522284326	0	0
0.54240268	0	0
0.574847872	0	0
0.598696309	0	0
0.621048988	0	0
0.647272458	0	0
0.670324633	0	0
0.699642606	0	0
0.722408044	0	0
0.746448576	0	0
0.776729895	0	0
0.79906536	0	0
0.820479819	0	1.02E-04
0.844285587	0	2.56E-04
0.86283825	0	4.73E-04
0.901079084	0	6.20E-04
0.924165762	0	6.04E-04
0.947507154	0	7.17E-04
0.96395082	0	7.40E-04
1.002675678	0	8.71E-04
1.026130737	0	8.97E-04
1.047332743	0	0.0010282
1.062125631	0	9.60E-04
1.099822135	0	0.0011092
1.123144303	0	0.001123
1.146162658	0	0.0011205
1.161598983	1.35E-04	0.0010891
1.197270324	3.13E-04	0.0013627
1.222148919	4.41E-04	0.0013613
1.243763025	5.32E-04	0.0014286
1.258500696	5.85E-04	0.00145
1.295441956	6.84E-04	0.001498
1.318353256	6.97E-04	0.0015153
1.34238396	7.73E-04	0.0015619
1.362136322	8.47E-04	0.0014192
1.391395366	8.78E-04	0.0015169
1.418678489	9.37E-04	0.0015363
1.43592061	9.68E-04	0.0015477

[d = 400 μm , a = 370 μm]

a = 370 μm : 15/17

Efficiency, e_n

1.457507168	0.001019065	0.0015564
1.49058442	0.001000549	0.0017331
1.514901169	0.001033605	0.0017564
1.535749403	0.001055334	0.002257
1.559520592	0.001144016	0.0020374
1.579800841	0.001184081	0
1.601609711	0.001114022	0
1.614723354	0.001117743	0
1.641275008	0.001100219	0
1.668481872	0.001144587	0.00E+00
1.69199938	1.21E-03	0.00E+00
1.715757209	0.001210218	0.00E+00
1.740648018	0.001255002	0
1.767656003	0.001173555	0
1.791434996	0.001233216	0
1.815492584	0.001134135	0.00E+00
1.841042868	0.001148629	0.00E+00
1.879534712	1.14E-03	0.00E+00
1.904090793	1.16E-03	0.00E+00
1.929630467	1.13E-03	0.00E+00
1.953535999	1.09E-03	0.00E+00
1.977914686	1.07E-03	0.00E+00
2.002524875	1.05E-03	0.00E+00
2.027796215	1.12E-03	0.00E+00
2.051627699	9.91E-04	0.00E+00
2.07289716	8.81E-04	0.00E+00

[d = 400 μm, a = 390 μm]

a = 390 μm: 16/17

Efficiency, e_n

[d = 400 μm, a = 390 μm]

Incidence angle, θ_{in} [mrad]	$n = -2$	$n = -1$
	Efficiency, e_n	
0.44287647	0	0
0.469489112	0	0
0.492241186	0	0
0.50552938	0	0
0.534599992	0	0
0.562315825	0	0
0.585001214	0	0
0.606422341	0	0
0.620689798	0	0
0.657735514	0	0
0.681704445	0	0
0.704626349	0	0
0.721273001	0	0
0.746890747	0	0
0.782449489	0	0.00E+00
0.808390875	0	0
0.832965981	0	0
0.840863269	0	0
0.878969808	0	0
0.907685962	0	0
0.934130019	0	9.96E-05
0.959364222	0	0
0.976727324	0	0
0.990412747	0	1.95E-04
1.038502448	0	1.71E-04
1.066880916	0	1.64E-04
1.09339039	0	1.86E-04
1.101108241	0	1.56E-04
1.134698273	0	1.59E-04
1.171400641	0.00E+00	2.36E-04
1.195100309	0	2.25E-04
1.22073768	0	2.22E-04
1.223563329	4.56E-05	2.69E-04
1.267407578	3.77E-05	1.93E-04
1.297147357	4.21E-05	2.87E-04
1.319380643	6.91E-05	0
1.343000221	1.04E-04	2.93E-04
1.369260217	5.06E-05	0
1.379070013	1.30E-04	0
1.417889273	8.56E-05	0

[d = 400 μm , a = 390 μm]

a = 390 μm : 17/17

Efficiency, e_n

1.451018615	9.94E-05	0
1.475003586	5.35E-05	0
1.500513143	1.30E-04	0
1.525007304	1.26E-04	0
1.546521948	1.26E-04	0
1.554447993	1.51E-04	0
1.59794669	1.20E-04	0
1.6264244	1.31E-04	0
1.652056914	1.54E-04	0
1.680593951	1.67E-04	0
1.705807441	0	0
1.721122342	0	0
1.753004917	0	0
1.789513583	0	0
1.815335375	0	0
1.8391887	0	0
1.86177458	0	0
1.888587958	0	0
1.913902681	0	0
1.92334895	0	0
1.961373428	0	0
1.997204345	0	0
2.024283194	0	0
2.048013186	0	0
2.069921929	0	0
