

Radius	4	
Angle (deg.)	X	Y
0.0000	4.0000	0.0000
2.8346	3.9951	0.1978
5.6693	3.9804	0.3951
8.5039	3.9560	0.5915
11.3386	3.9219	0.7864
14.1732	3.8782	0.9794
17.0079	3.8251	1.1700
19.8425	3.7625	1.3577
22.6772	3.6908	1.5422
25.5118	3.6100	1.7228
28.3465	3.5204	1.8992
31.1811	3.4221	2.0710
34.0157	3.3155	2.2377
36.8504	3.2008	2.3989
39.6850	3.0783	2.5543
42.5197	2.9482	2.7034
45.3543	2.8109	2.8459
48.1890	2.6667	2.9814
51.0236	2.5160	3.1096
53.8583	2.3591	3.2302
56.6929	2.1965	3.3430
59.5276	2.0285	3.4475
62.3622	1.8555	3.5436
65.1969	1.6780	3.6310
68.0315	1.4964	3.7096
70.8661	1.3111	3.7790
73.7008	1.1226	3.8392
76.5354	0.9314	3.8901
79.3701	0.7379	3.9314
82.2047	0.5425	3.9630
85.0394	0.3459	3.9850
87.8740	0.1484	3.9972
90.7087	-0.0495	3.9997
93.5433	-0.2472	3.9924
96.3780	-0.4443	3.9752
99.2126	-0.6404	3.9484
102.0472	-0.8349	3.9119

104.8819	-1.0273	3.8658
107.7165	-1.2172	3.8103
110.5512	-1.4042	3.7454
113.3858	-1.5877	3.6714
116.2205	-1.7673	3.5884
119.0551	-1.9426	3.4966
121.8898	-2.1131	3.3963
124.7244	-2.2785	3.2876
127.5591	-2.4383	3.1709
130.3937	-2.5921	3.0464
133.2283	-2.7396	2.9145
136.0630	-2.8804	2.7755
138.8976	-3.0141	2.6296
141.7323	-3.1405	2.4773
144.5669	-3.2592	2.3190
147.4016	-3.3699	2.1550
150.2362	-3.4723	1.9857
153.0709	-3.5663	1.8116
155.9055	-3.6515	1.6330
158.7402	-3.7278	1.4504
161.5748	-3.7949	1.2643
164.4094	-3.8528	1.0750
167.2441	-3.9013	0.8832
170.0787	-3.9402	0.6892
172.9134	-3.9694	0.4935
175.7480	-3.9890	0.2966
178.5827	-3.9988	0.0989
181.4173	-3.9988	-0.0989
184.2520	-3.9890	-0.2966
187.0866	-3.9694	-0.4935
189.9213	-3.9402	-0.6892
192.7559	-3.9013	-0.8832
195.5906	-3.8528	-1.0750
198.4252	-3.7949	-1.2643
201.2598	-3.7278	-1.4504
204.0945	-3.6515	-1.6330
206.9291	-3.5663	-1.8116
209.7638	-3.4723	-1.9857
212.5984	-3.3699	-2.1550
215.4331	-3.2592	-2.3190

218.2677	-3.1405	-2.4773
221.1024	-3.0141	-2.6296
223.9370	-2.8804	-2.7755
226.7717	-2.7396	-2.9145
229.6063	-2.5921	-3.0464
232.4409	-2.4383	-3.1709
235.2756	-2.2785	-3.2876
238.1102	-2.1131	-3.3963
240.9449	-1.9426	-3.4966
243.7795	-1.7673	-3.5884
246.6142	-1.5877	-3.6714
249.4488	-1.4042	-3.7454
252.2835	-1.2172	-3.8103
255.1181	-1.0273	-3.8658
257.9528	-0.8349	-3.9119
260.7874	-0.6404	-3.9484
263.6220	-0.4443	-3.9752
266.4567	-0.2472	-3.9924
269.2913	-0.0495	-3.9997
272.1260	0.1484	-3.9972
274.9606	0.3459	-3.9850
277.7953	0.5425	-3.9630
280.6299	0.7379	-3.9314
283.4646	0.9314	-3.8901
286.2992	1.1226	-3.8392
289.1339	1.3111	-3.7790
291.9685	1.4964	-3.7096
294.8031	1.6780	-3.6310
297.6378	1.8555	-3.5436
300.4724	2.0285	-3.4475
303.3071	2.1965	-3.3430
306.1417	2.3591	-3.2302
308.9764	2.5160	-3.1096
311.8110	2.6667	-2.9814
314.6457	2.8109	-2.8459
317.4803	2.9482	-2.7034
320.3150	3.0783	-2.5543
323.1496	3.2008	-2.3989
325.9843	3.3155	-2.2377
328.8189	3.4221	-2.0710

331.6535	3.5204	-1.8992
334.4882	3.6100	-1.7228
337.3228	3.6908	-1.5422
340.1575	3.7625	-1.3577
342.9921	3.8251	-1.1700
345.8268	3.8782	-0.9794
348.6614	3.9219	-0.7864
351.4961	3.9560	-0.5915
354.3307	3.9804	-0.3951
357.1654	3.9951	-0.1978

Table 2:  $X=R*\cos(\text{angle})$ ,  $Y= R*\sin(\text{angle})$ . Tabulated for a 127-hole plate on a 4" radius.