ルーバーの角度と日照面積率

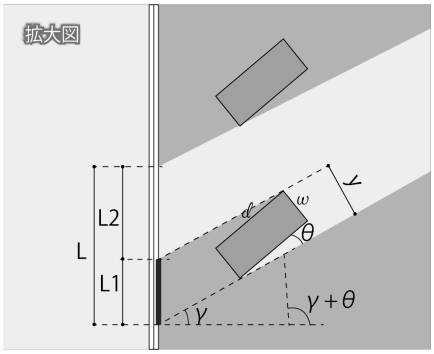
作成日時：　　****/**/**

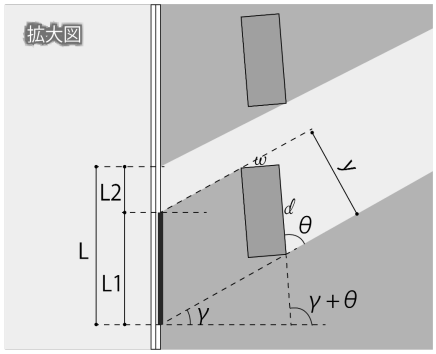
1．計算条件

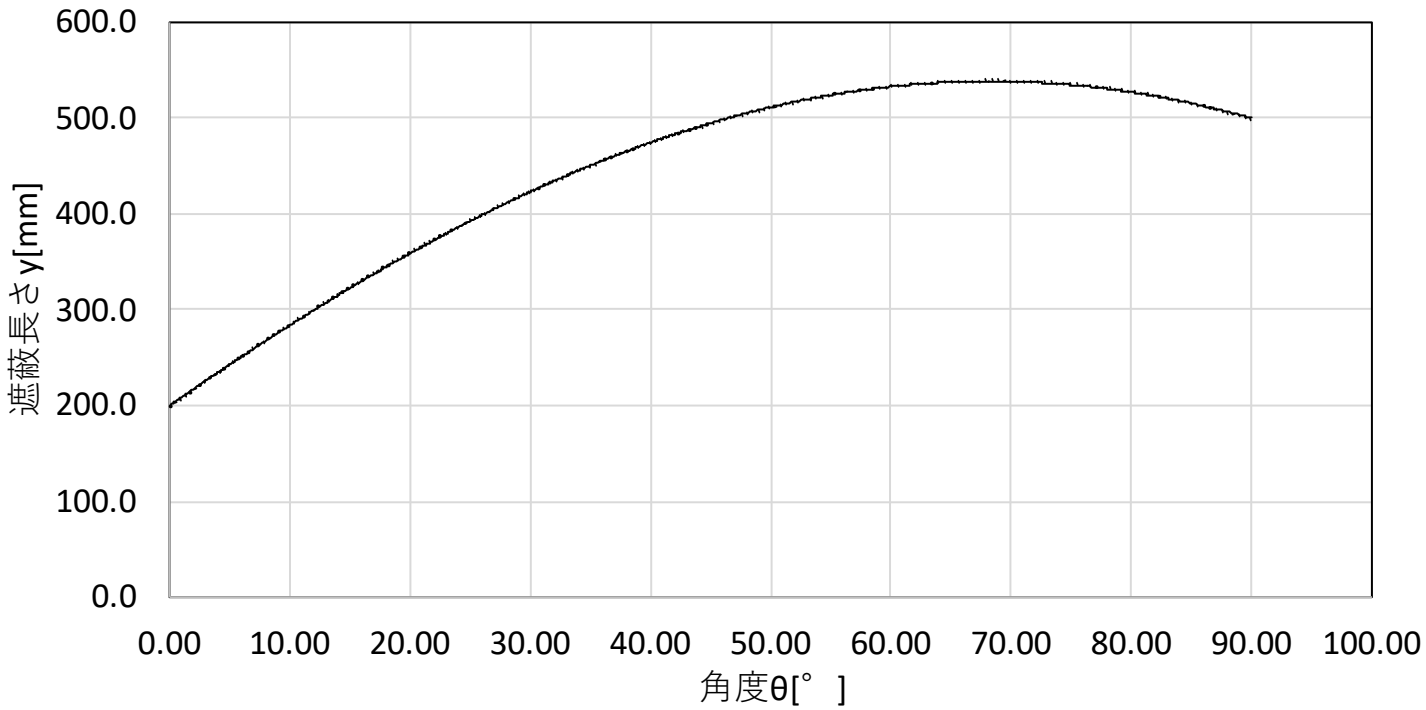
入射角tanγ	0.5774	-
入射角 γ	30	度
ルーバー間隔	1,000	mm
ルーバーの幅	200	mm
ルーバーの奥行き	500	mm

2．計算結果

ルーバー角度θ	68.2	度
yの最大値	538.52	mm
$\gamma+\theta$	98.20	度
L1	621.83	mm
L2	378.17	mm
日照面積率	37.8	%







sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.0017	0.0000	1.0000	1.0000	0.10	0.9	200.0	200.9
0.0035	0.0000	1.0000	1.0000	0.20	1.7	200.0	201.7
0.0052	0.0000	1.0000	1.0000	0.30	2.6	200.0	202.6
0.0070	0.0000	1.0000	1.0000	0.40	3.5	200.0	203.5
0.0087	0.0001	0.9999	1.0000	0.50	4.4	200.0	204.4
0.0105	0.0001	0.9999	0.9999	0.60	5.2	200.0	205.2
0.0122	0.0001	0.9999	0.9999	0.70	6.1	200.0	206.1
0.0140	0.0002	0.9998	0.9999	0.80	7.0	200.0	207.0
0.0157	0.0002	0.9998	0.9999	0.90	7.9	200.0	207.8
0.0175	0.0003	0.9997	0.9998	1.00	8.7	200.0	208.7
0.0192	0.0004	0.9996	0.9998	1.10	9.6	200.0	209.6
0.0209	0.0004	0.9996	0.9998	1.20	10.5	200.0	210.4
0.0227	0.0005	0.9995	0.9997	1.30	11.3	199.9	211.3
0.0244	0.0006	0.9994	0.9997	1.40	12.2	199.9	212.2
0.0262	0.0007	0.9993	0.9997	1.50	13.1	199.9	213.0
0.0279	0.0008	0.9992	0.9996	1.60	14.0	199.9	213.9
0.0297	0.0009	0.9991	0.9996	1.70	14.8	199.9	214.7
0.0314	0.0010	0.9990	0.9995	1.80	15.7	199.9	215.6
0.0332	0.0011	0.9989	0.9995	1.90	16.6	199.9	216.5
0.0349	0.0012	0.9988	0.9994	2.00	17.4	199.9	217.3
0.0366	0.0013	0.9987	0.9993	2.10	18.3	199.9	218.2
0.0384	0.0015	0.9985	0.9993	2.20	19.2	199.9	219.0
0.0401	0.0016	0.9984	0.9992	2.30	20.1	199.8	219.9
0.0419	0.0018	0.9982	0.9991	2.40	20.9	199.8	220.8
0.0436	0.0019	0.9981	0.9990	2.50	21.8	199.8	221.6
0.0454	0.0021	0.9979	0.9990	2.60	22.7	199.8	222.5
0.0471	0.0022	0.9978	0.9989	2.70	23.6	199.8	223.3
0.0488	0.0024	0.9976	0.9988	2.80	24.4	199.8	224.2
0.0506	0.0026	0.9974	0.9987	2.90	25.3	199.7	225.0
0.0523	0.0027	0.9973	0.9986	3.00	26.2	199.7	225.9
0.0541	0.0029	0.9971	0.9985	3.10	27.0	199.7	226.7
0.0558	0.0031	0.9969	0.9984	3.20	27.9	199.7	227.6
0.0576	0.0033	0.9967	0.9983	3.30	28.8	199.7	228.5
0.0593	0.0035	0.9965	0.9982	3.40	29.7	199.6	229.3
0.0610	0.0037	0.9963	0.9981	3.50	30.5	199.6	230.2
0.0628	0.0039	0.9961	0.9980	3.60	31.4	199.6	231.0
0.0645	0.0042	0.9958	0.9979	3.70	32.3	199.6	231.8
0.0663	0.0044	0.9956	0.9978	3.80	33.1	199.6	232.7
0.0680	0.0046	0.9954	0.9977	3.90	34.0	199.5	233.5
0.0698	0.0049	0.9951	0.9976	4.00	34.9	199.5	234.4
0.0715	0.0051	0.9949	0.9974	4.10	35.7	199.5	235.2
0.0732	0.0054	0.9946	0.9973	4.20	36.6	199.5	236.1
0.0750	0.0056	0.9944	0.9972	4.30	37.5	199.4	236.9
0.0767	0.0059	0.9941	0.9971	4.40	38.4	199.4	237.8
0.0785	0.0062	0.9938	0.9969	4.50	39.2	199.4	238.6
0.0802	0.0064	0.9936	0.9968	4.60	40.1	199.4	239.5
0.0819	0.0067	0.9933	0.9966	4.70	41.0	199.3	240.3
0.0837	0.0070	0.9930	0.9965	4.80	41.8	199.3	241.1
0.0854	0.0073	0.9927	0.9963	4.90	42.7	199.3	242.0
0.0872	0.0076	0.9924	0.9962	5.00	43.6	199.2	242.8
0.0889	0.0079	0.9921	0.9960	5.10	44.4	199.2	243.7
0.0906	0.0082	0.9918	0.9959	5.20	45.3	199.2	244.5
0.0924	0.0085	0.9915	0.9957	5.30	46.2	199.1	245.3
0.0941	0.0089	0.9911	0.9956	5.40	47.1	199.1	246.2
0.0958	0.0092	0.9908	0.9954	5.50	47.9	199.1	247.0
0.0976	0.0095	0.9905	0.9952	5.60	48.8	199.0	247.8
0.0993	0.0099	0.9901	0.9951	5.70	49.7	199.0	248.7
0.1011	0.0102	0.9898	0.9949	5.80	50.5	199.0	249.5
0.1028	0.0106	0.9894	0.9947	5.90	51.4	198.9	250.3
0.1045	0.0109	0.9891	0.9945	6.00	52.3	198.9	251.2
0.1063	0.0113	0.9887	0.9943	6.10	53.1	198.9	252.0
0.1080	0.0117	0.9883	0.9942	6.20	54.0	198.8	252.8
0.1097	0.0120	0.9880	0.9940	6.30	54.9	198.8	253.7
0.1115	0.0124	0.9876	0.9938	6.40	55.7	198.8	254.5
0.1132	0.0128	0.9872	0.9936	6.50	56.6	198.7	255.3
0.1149	0.0132	0.9868	0.9934	6.60	57.5	198.7	256.1
0.1167	0.0136	0.9864	0.9932	6.70	58.3	198.6	257.0
0.1184	0.0140	0.9860	0.9930	6.80	59.2	198.6	257.8
0.1201	0.0144	0.9856	0.9928	6.90	60.1	198.6	258.6
0.1219	0.0149	0.9851	0.9925	7.00	60.9	198.5	259.4

cos2 θ	cos θ	L1
0.75	0.866025	231.9474
0.75	0.866025	232.954
0.75	0.866025	233.9599
0.75	0.866025	234.9651
0.75	0.866025	235.9696
0.75	0.866025	236.9733
0.75	0.866025	237.9764
0.75	0.866025	238.9787
0.75	0.866025	239.9802
0.75	0.866025	240.9811
0.75	0.866025	241.9812
0.75	0.866025	242.9806
0.75	0.866025	243.9792
0.75	0.866025	244.9771
0.75	0.866025	245.9742
0.75	0.866025	246.9706
0.75	0.866025	247.9663
0.75	0.866025	248.9612
0.75	0.866025	249.9553
0.75	0.866025	250.9487
0.75	0.866025	251.9413
0.75	0.866025	252.9331
0.75	0.866025	253.9242
0.75	0.866025	254.9145
0.75	0.866025	255.904
0.75	0.866025	256.8927
0.75	0.866025	257.8807
0.75	0.866025	258.8678
0.75	0.866025	259.8542
0.75	0.866025	260.8398
0.75	0.866025	261.8246
0.75	0.866025	262.8086
0.75	0.866025	263.7918
0.75	0.866025	264.7742
0.75	0.866025	265.7557
0.75	0.866025	266.7365
0.75	0.866025	267.7165
0.75	0.866025	268.6956
0.75	0.866025	269.674
0.75	0.866025	270.6515
0.75	0.866025	271.6282
0.75	0.866025	272.604
0.75	0.866025	273.579
0.75	0.866025	274.5532
0.75	0.866025	275.5266
0.75	0.866025	276.4991
0.75	0.866025	277.4708
0.75	0.866025	278.4416
0.75	0.866025	279.4116
0.75	0.866025	280.3807
0.75	0.866025	281.349
0.75	0.866025	282.3164
0.75	0.866025	283.283
0.75	0.866025	284.2486
0.75	0.866025	285.2135
0.75	0.866025	286.1774
0.75	0.866025	287.1405
0.75	0.866025	288.1027
0.75	0.866025	289.0641
0.75	0.866025	290.0245
0.75	0.866025	290.9841
0.75	0.866025	291.9428
0.75	0.866025	292.9006
0.75	0.866025	293.8575
0.75	0.866025	294.8135
0.75	0.866025	295.7686
0.75	0.866025	296.7228
0.75	0.866025	297.6761
0.75	0.866025	298.6285
0.75	0.866025	299.58

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.1236	0.0153	0.9847	0.9923	7.10	61.8	198.5	260.3
0.1253	0.0157	0.9843	0.9921	7.20	62.7	198.4	261.1
0.1271	0.0161	0.9839	0.9919	7.30	63.5	198.4	261.9
0.1288	0.0166	0.9834	0.9917	7.40	64.4	198.3	262.7
0.1305	0.0170	0.9830	0.9914	7.50	65.3	198.3	263.6
0.1323	0.0175	0.9825	0.9912	7.60	66.1	198.2	264.4
0.1340	0.0180	0.9820	0.9910	7.70	67.0	198.2	265.2
0.1357	0.0184	0.9816	0.9907	7.80	67.9	198.1	266.0
0.1374	0.0189	0.9811	0.9905	7.90	68.7	198.1	266.8
0.1392	0.0194	0.9806	0.9903	8.00	69.6	198.1	267.6
0.1409	0.0199	0.9801	0.9900	8.10	70.5	198.0	268.5
0.1426	0.0203	0.9797	0.9898	8.20	71.3	198.0	269.3
0.1444	0.0208	0.9792	0.9895	8.30	72.2	197.9	270.1
0.1461	0.0213	0.9787	0.9893	8.40	73.0	197.9	270.9
0.1478	0.0218	0.9782	0.9890	8.50	73.9	197.8	271.7
0.1495	0.0224	0.9776	0.9888	8.60	74.8	197.8	272.5
0.1513	0.0229	0.9771	0.9885	8.70	75.6	197.7	273.3
0.1530	0.0234	0.9766	0.9882	8.80	76.5	197.6	274.1
0.1547	0.0239	0.9761	0.9880	8.90	77.4	197.6	274.9
0.1564	0.0245	0.9755	0.9877	9.00	78.2	197.5	275.8
0.1582	0.0250	0.9750	0.9874	9.10	79.1	197.5	276.6
0.1599	0.0256	0.9744	0.9871	9.20	79.9	197.4	277.4
0.1616	0.0261	0.9739	0.9869	9.30	80.8	197.4	278.2
0.1633	0.0267	0.9733	0.9866	9.40	81.7	197.3	279.0
0.1650	0.0272	0.9728	0.9863	9.50	82.5	197.3	279.8
0.1668	0.0278	0.9722	0.9860	9.60	83.4	197.2	280.6
0.1685	0.0284	0.9716	0.9857	9.70	84.2	197.1	281.4
0.1702	0.0290	0.9710	0.9854	9.80	85.1	197.1	282.2
0.1719	0.0296	0.9704	0.9851	9.90	86.0	197.0	283.0
0.1736	0.0302	0.9698	0.9848	10.00	86.8	197.0	283.8
0.1754	0.0308	0.9692	0.9845	10.10	87.7	196.9	284.6
0.1771	0.0314	0.9686	0.9842	10.20	88.5	196.8	285.4
0.1788	0.0320	0.9680	0.9839	10.30	89.4	196.8	286.2
0.1805	0.0326	0.9674	0.9836	10.40	90.3	196.7	287.0
0.1822	0.0332	0.9668	0.9833	10.50	91.1	196.7	287.8
0.1840	0.0338	0.9662	0.9829	10.60	92.0	196.6	288.6
0.1857	0.0345	0.9655	0.9826	10.70	92.8	196.5	289.4
0.1874	0.0351	0.9649	0.9823	10.80	93.7	196.5	290.1
0.1891	0.0358	0.9642	0.9820	10.90	94.5	196.4	290.9
0.1908	0.0364	0.9636	0.9816	11.00	95.4	196.3	291.7
0.1925	0.0371	0.9629	0.9813	11.10	96.3	196.3	292.5
0.1942	0.0377	0.9623	0.9810	11.20	97.1	196.2	293.3
0.1959	0.0384	0.9616	0.9806	11.30	98.0	196.1	294.1
0.1977	0.0391	0.9609	0.9803	11.40	98.8	196.1	294.9
0.1994	0.0397	0.9603	0.9799	11.50	99.7	196.0	295.7
0.2011	0.0404	0.9596	0.9796	11.60	100.5	195.9	296.5
0.2028	0.0411	0.9589	0.9792	11.70	101.4	195.8	297.2
0.2045	0.0418	0.9582	0.9789	11.80	102.2	195.8	298.0
0.2062	0.0425	0.9575	0.9785	11.90	103.1	195.7	298.8
0.2079	0.0432	0.9568	0.9781	12.00	104.0	195.6	299.6
0.2096	0.0439	0.9561	0.9778	12.10	104.8	195.6	300.4
0.2113	0.0447	0.9553	0.9774	12.20	105.7	195.5	301.1
0.2130	0.0454	0.9546	0.9770	12.30	106.5	195.4	301.9
0.2147	0.0461	0.9539	0.9767	12.40	107.4	195.3	302.7
0.2164	0.0468	0.9532	0.9763	12.50	108.2	195.3	303.5
0.2181	0.0476	0.9524	0.9759	12.60	109.1	195.2	304.3
0.2198	0.0483	0.9517	0.9755	12.70	109.9	195.1	305.0
0.2215	0.0491	0.9509	0.9751	12.80	110.8	195.0	305.8
0.2233	0.0498	0.9502	0.9748	12.90	111.6	195.0	306.6
0.2250	0.0506	0.9494	0.9744	13.00	112.5	194.9	307.3
0.2267	0.0514	0.9486	0.9740	13.10	113.3	194.8	308.1
0.2284	0.0521	0.9479	0.9736	13.20	114.2	194.7	308.9
0.2300	0.0529	0.9471	0.9732	13.30	115.0	194.6	309.7
0.2317	0.0537	0.9463	0.9728	13.40	115.9	194.6	310.4
0.2334	0.0545	0.9455	0.9724	13.50	116.7	194.5	311.2
0.2351	0.0553	0.9447	0.9720	13.60	117.6	194.4	312.0
0.2368	0.0561	0.9439	0.9715	13.70	118.4	194.3	312.7
0.2385	0.0569	0.9431	0.9711	13.80	119.3	194.2	313.5
0.2402	0.0577	0.9423	0.9707	13.90	120.1	194.1	314.3
0.2419	0.0585	0.9415	0.9703	14.00	121.0	194.1	315.0

cos2 θ	cos θ	L1
0.75	0.866025	300.5306
0.75	0.866025	301.4803
0.75	0.866025	302.429
0.75	0.866025	303.3768
0.75	0.866025	304.3237
0.75	0.866025	305.2697
0.75	0.866025	306.2147
0.75	0.866025	307.1588
0.75	0.866025	308.102
0.75	0.866025	309.0442
0.75	0.866025	309.9855
0.75	0.866025	310.9259
0.75	0.866025	311.8653
0.75	0.866025	312.8037
0.75	0.866025	313.7412
0.75	0.866025	314.6778
0.75	0.866025	315.6134
0.75	0.866025	316.548
0.75	0.866025	317.4816
0.75	0.866025	318.4143
0.75	0.866025	319.3461
0.75	0.866025	320.2768
0.75	0.866025	321.2066
0.75	0.866025	322.1354
0.75	0.866025	323.0632
0.75	0.866025	323.99
0.75	0.866025	324.9159
0.75	0.866025	325.8407
0.75	0.866025	326.7646
0.75	0.866025	327.6874
0.75	0.866025	328.6093
0.75	0.866025	329.5302
0.75	0.866025	330.45
0.75	0.866025	331.3689
0.75	0.866025	332.2867
0.75	0.866025	333.2036
0.75	0.866025	334.1194
0.75	0.866025	335.0342
0.75	0.866025	335.948
0.75	0.866025	336.8607
0.75	0.866025	337.7724
0.75	0.866025	338.6831
0.75	0.866025	339.5928
0.75	0.866025	340.5014
0.75	0.866025	341.409
0.75	0.866025	342.3156
0.75	0.866025	343.2211
0.75	0.866025	344.1256
0.75	0.866025	345.029
0.75	0.866025	345.9314
0.75	0.866025	346.8327
0.75	0.866025	347.733
0.75	0.866025	348.6322
0.75	0.866025	349.5303
0.75	0.866025	350.4274
0.75	0.866025	351.3234
0.75	0.866025	352.2183
0.75	0.866025	353.1122
0.75	0.866025	354.005
0.75	0.866025	354.8967
0.75	0.866025	355.7873
0.75	0.866025	356.6769
0.75	0.866025	357.5653
0.75	0.866025	358.4527
0.75	0.866025	359.339
0.75	0.866025	360.2241
0.75	0.866025	361.1082
0.75	0.866025	361.9912
0.75	0.866025	362.8731
0.75	0.866025	363.7539

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.2436	0.0593	0.9407	0.9699	14.10	121.8	194.0	315.8
0.2453	0.0602	0.9398	0.9694	14.20	122.7	193.9	316.5
0.2470	0.0610	0.9390	0.9690	14.30	123.5	193.8	317.3
0.2487	0.0618	0.9382	0.9686	14.40	124.3	193.7	318.1
0.2504	0.0627	0.9373	0.9681	14.50	125.2	193.6	318.8
0.2521	0.0635	0.9365	0.9677	14.60	126.0	193.5	319.6
0.2538	0.0644	0.9356	0.9673	14.70	126.9	193.5	320.3
0.2554	0.0653	0.9347	0.9668	14.80	127.7	193.4	321.1
0.2571	0.0661	0.9339	0.9664	14.90	128.6	193.3	321.8
0.2588	0.0670	0.9330	0.9659	15.00	129.4	193.2	322.6
0.2605	0.0679	0.9321	0.9655	15.10	130.3	193.1	323.3
0.2622	0.0687	0.9313	0.9650	15.20	131.1	193.0	324.1
0.2639	0.0696	0.9304	0.9646	15.30	131.9	192.9	324.8
0.2656	0.0705	0.9295	0.9641	15.40	132.8	192.8	325.6
0.2672	0.0714	0.9286	0.9636	15.50	133.6	192.7	326.3
0.2689	0.0723	0.9277	0.9632	15.60	134.5	192.6	327.1
0.2706	0.0732	0.9268	0.9627	15.70	135.3	192.5	327.8
0.2723	0.0741	0.9259	0.9622	15.80	136.1	192.4	328.6
0.2740	0.0751	0.9249	0.9617	15.90	137.0	192.3	329.3
0.2756	0.0760	0.9240	0.9613	16.00	137.8	192.3	330.1
0.2773	0.0769	0.9231	0.9608	16.10	138.7	192.2	330.8
0.2790	0.0778	0.9222	0.9603	16.20	139.5	192.1	331.6
0.2807	0.0788	0.9212	0.9598	16.30	140.3	192.0	332.3
0.2823	0.0797	0.9203	0.9593	16.40	141.2	191.9	333.0
0.2840	0.0807	0.9193	0.9588	16.50	142.0	191.8	333.8
0.2857	0.0816	0.9184	0.9583	16.60	142.8	191.7	334.5
0.2874	0.0826	0.9174	0.9578	16.70	143.7	191.6	335.2
0.2890	0.0835	0.9165	0.9573	16.80	144.5	191.5	336.0
0.2907	0.0845	0.9155	0.9568	16.90	145.4	191.4	336.7
0.2924	0.0855	0.9145	0.9563	17.00	146.2	191.3	337.4
0.2940	0.0865	0.9135	0.9558	17.10	147.0	191.2	338.2
0.2957	0.0874	0.9126	0.9553	17.20	147.9	191.1	338.9
0.2974	0.0884	0.9116	0.9548	17.30	148.7	191.0	339.6
0.2990	0.0894	0.9106	0.9542	17.40	149.5	190.8	340.4
0.3007	0.0904	0.9096	0.9537	17.50	150.4	190.7	341.1
0.3024	0.0914	0.9086	0.9532	17.60	151.2	190.6	341.8
0.3040	0.0924	0.9076	0.9527	17.70	152.0	190.5	342.5
0.3057	0.0934	0.9066	0.9521	17.80	152.8	190.4	343.3
0.3074	0.0945	0.9055	0.9516	17.90	153.7	190.3	344.0
0.3090	0.0955	0.9045	0.9511	18.00	154.5	190.2	344.7
0.3107	0.0965	0.9035	0.9505	18.10	155.3	190.1	345.4
0.3123	0.0976	0.9024	0.9500	18.20	156.2	190.0	346.2
0.3140	0.0986	0.9014	0.9494	18.30	157.0	189.9	346.9
0.3156	0.0996	0.9004	0.9489	18.40	157.8	189.8	347.6
0.3173	0.1007	0.8993	0.9483	18.50	158.7	189.7	348.3
0.3190	0.1017	0.8983	0.9478	18.60	159.5	189.6	349.0
0.3206	0.1028	0.8972	0.9472	18.70	160.3	189.4	349.7
0.3223	0.1039	0.8961	0.9466	18.80	161.1	189.3	350.5
0.3239	0.1049	0.8951	0.9461	18.90	162.0	189.2	351.2
0.3256	0.1060	0.8940	0.9455	19.00	162.8	189.1	351.9
0.3272	0.1071	0.8929	0.9449	19.10	163.6	189.0	352.6
0.3289	0.1082	0.8918	0.9444	19.20	164.4	188.9	353.3
0.3305	0.1092	0.8908	0.9438	19.30	165.3	188.8	354.0
0.3322	0.1103	0.8897	0.9432	19.40	166.1	188.6	354.7
0.3338	0.1114	0.8886	0.9426	19.50	166.9	188.5	355.4
0.3355	0.1125	0.8875	0.9421	19.60	167.7	188.4	356.1
0.3371	0.1136	0.8864	0.9415	19.70	168.5	188.3	356.8
0.3387	0.1147	0.8853	0.9409	19.80	169.4	188.2	357.5
0.3404	0.1159	0.8841	0.9403	19.90	170.2	188.1	358.2
0.3420	0.1170	0.8830	0.9397	20.00	171.0	187.9	358.9
0.3437	0.1181	0.8819	0.9391	20.10	171.8	187.8	359.6
0.3453	0.1192	0.8808	0.9385	20.20	172.6	187.7	360.3
0.3469	0.1204	0.8796	0.9379	20.30	173.5	187.6	361.0
0.3486	0.1215	0.8785	0.9373	20.40	174.3	187.5	361.7
0.3502	0.1226	0.8774	0.9367	20.50	175.1	187.3	362.4
0.3518	0.1238	0.8762	0.9361	20.60	175.9	187.2	363.1
0.3535	0.1249	0.8751	0.9354	20.70	176.7	187.1	363.8
0.3551	0.1261	0.8739	0.9348	20.80	177.6	187.0	364.5
0.3567	0.1273	0.8727	0.9342	20.90	178.4	186.8	365.2
0.3584	0.1284	0.8716	0.9336	21.00	179.2	186.7	365.9

cos2 θ	cos θ	L1
0.75	0.866025	364.6335
0.75	0.866025	365.5121
0.75	0.866025	366.3895
0.75	0.866025	367.2659
0.75	0.866025	368.1411
0.75	0.866025	369.0152
0.75	0.866025	369.8881
0.75	0.866025	370.76
0.75	0.866025	371.6307
0.75	0.866025	372.5003
0.75	0.866025	373.3687
0.75	0.866025	374.236
0.75	0.866025	375.1022
0.75	0.866025	375.9672
0.75	0.866025	376.8311
0.75	0.866025	377.6938
0.75	0.866025	378.5554
0.75	0.866025	379.4158
0.75	0.866025	380.2751
0.75	0.866025	381.1332
0.75	0.866025	381.9901
0.75	0.866025	382.8459
0.75	0.866025	383.7005
0.75	0.866025	384.554
0.75	0.866025	385.4063
0.75	0.866025	386.2574
0.75	0.866025	387.1073
0.75	0.866025	387.9561
0.75	0.866025	388.8036
0.75	0.866025	389.65
0.75	0.866025	390.4952
0.75	0.866025	391.3392
0.75	0.866025	392.182
0.75	0.866025	393.0236
0.75	0.866025	393.8641
0.75	0.866025	394.7033
0.75	0.866025	395.5413
0.75	0.866025	396.3781
0.75	0.866025	397.2137
0.75	0.866025	398.0481
0.75	0.866025	398.8813
0.75	0.866025	399.7133
0.75	0.866025	400.5441
0.75	0.866025	401.3736
0.75	0.866025	402.2019
0.75	0.866025	403.029
0.75	0.866025	403.8548
0.75	0.866025	404.6795
0.75	0.866025	405.5029
0.75	0.866025	406.325
0.75	0.866025	407.1459
0.75	0.866025	407.9656
0.75	0.866025	408.7841
0.75	0.866025	409.6013
0.75	0.866025	410.4172
0.75	0.866025	411.2319
0.75	0.866025	412.0453
0.75	0.866025	412.8575
0.75	0.866025	413.6685
0.75	0.866025	414.4781
0.75	0.866025	415.2865
0.75	0.866025	416.0937
0.75	0.866025	416.8996
0.75	0.866025	417.7042
0.75	0.866025	418.5075
0.75	0.866025	419.3096
0.75	0.866025	420.1103
0.75	0.866025	420.9098
0.75	0.866025	421.7081
0.75	0.866025	422.505

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.3600	0.1296	0.8704	0.9330	21.10	180.0	186.6	366.6
0.3616	0.1308	0.8692	0.9323	21.20	180.8	186.5	367.3
0.3633	0.1320	0.8680	0.9317	21.30	181.6	186.3	368.0
0.3649	0.1331	0.8669	0.9311	21.40	182.4	186.2	368.6
0.3665	0.1343	0.8657	0.9304	21.50	183.3	186.1	369.3
0.3681	0.1355	0.8645	0.9298	21.60	184.1	186.0	370.0
0.3697	0.1367	0.8633	0.9291	21.70	184.9	185.8	370.7
0.3714	0.1379	0.8621	0.9285	21.80	185.7	185.7	371.4
0.3730	0.1391	0.8609	0.9278	21.90	186.5	185.6	372.1
0.3746	0.1403	0.8597	0.9272	22.00	187.3	185.4	372.7
0.3762	0.1415	0.8585	0.9265	22.10	188.1	185.3	373.4
0.3778	0.1428	0.8572	0.9259	22.20	188.9	185.2	374.1
0.3795	0.1440	0.8560	0.9252	22.30	189.7	185.0	374.8
0.3811	0.1452	0.8548	0.9245	22.40	190.5	184.9	375.4
0.3827	0.1464	0.8536	0.9239	22.50	191.3	184.8	376.1
0.3843	0.1477	0.8523	0.9232	22.60	192.1	184.6	376.8
0.3859	0.1489	0.8511	0.9225	22.70	193.0	184.5	377.5
0.3875	0.1502	0.8498	0.9219	22.80	193.8	184.4	378.1
0.3891	0.1514	0.8486	0.9212	22.90	194.6	184.2	378.8
0.3907	0.1527	0.8473	0.9205	23.00	195.4	184.1	379.5
0.3923	0.1539	0.8461	0.9198	23.10	196.2	184.0	380.1
0.3939	0.1552	0.8448	0.9191	23.20	197.0	183.8	380.8
0.3955	0.1565	0.8435	0.9184	23.30	197.8	183.7	381.5
0.3971	0.1577	0.8423	0.9178	23.40	198.6	183.6	382.1
0.3987	0.1590	0.8410	0.9171	23.50	199.4	183.4	382.8
0.4003	0.1603	0.8397	0.9164	23.60	200.2	183.3	383.4
0.4019	0.1616	0.8384	0.9157	23.70	201.0	183.1	384.1
0.4035	0.1628	0.8372	0.9150	23.80	201.8	183.0	384.8
0.4051	0.1641	0.8359	0.9143	23.90	202.6	182.9	385.4
0.4067	0.1654	0.8346	0.9135	24.00	203.4	182.7	386.1
0.4083	0.1667	0.8333	0.9128	24.10	204.2	182.6	386.7
0.4099	0.1680	0.8320	0.9121	24.20	205.0	182.4	387.4
0.4115	0.1693	0.8307	0.9114	24.30	205.8	182.3	388.0
0.4131	0.1707	0.8293	0.9107	24.40	206.6	182.1	388.7
0.4147	0.1720	0.8280	0.9100	24.50	207.3	182.0	389.3
0.4163	0.1733	0.8267	0.9092	24.60	208.1	181.8	390.0
0.4179	0.1746	0.8254	0.9085	24.70	208.9	181.7	390.6
0.4195	0.1759	0.8241	0.9078	24.80	209.7	181.6	391.3
0.4210	0.1773	0.8227	0.9070	24.90	210.5	181.4	391.9
0.4226	0.1786	0.8214	0.9063	25.00	211.3	181.3	392.6
0.4242	0.1799	0.8201	0.9056	25.10	212.1	181.1	393.2
0.4258	0.1813	0.8187	0.9048	25.20	212.9	181.0	393.9
0.4274	0.1826	0.8174	0.9041	25.30	213.7	180.8	394.5
0.4289	0.1840	0.8160	0.9033	25.40	214.5	180.7	395.1
0.4305	0.1853	0.8147	0.9026	25.50	215.3	180.5	395.8
0.4321	0.1867	0.8133	0.9018	25.60	216.0	180.4	396.4
0.4337	0.1881	0.8119	0.9011	25.70	216.8	180.2	397.0
0.4352	0.1894	0.8106	0.9003	25.80	217.6	180.1	397.7
0.4368	0.1908	0.8092	0.8996	25.90	218.4	179.9	398.3
0.4384	0.1922	0.8078	0.8988	26.00	219.2	179.8	398.9
0.4399	0.1935	0.8065	0.8980	26.10	220.0	179.6	399.6
0.4415	0.1949	0.8051	0.8973	26.20	220.8	179.5	400.2
0.4431	0.1963	0.8037	0.8965	26.30	221.5	179.3	400.8
0.4446	0.1977	0.8023	0.8957	26.40	222.3	179.1	401.5
0.4462	0.1991	0.8009	0.8949	26.50	223.1	179.0	402.1
0.4478	0.2005	0.7995	0.8942	26.60	223.9	178.8	402.7
0.4493	0.2019	0.7981	0.8934	26.70	224.7	178.7	403.3
0.4509	0.2033	0.7967	0.8926	26.80	225.4	178.5	404.0
0.4524	0.2047	0.7953	0.8918	26.90	226.2	178.4	404.6
0.4540	0.2061	0.7939	0.8910	27.00	227.0	178.2	405.2
0.4555	0.2075	0.7925	0.8902	27.10	227.8	178.0	405.8
0.4571	0.2089	0.7911	0.8894	27.20	228.5	177.9	406.4
0.4586	0.2104	0.7896	0.8886	27.30	229.3	177.7	407.0
0.4602	0.2118	0.7882	0.8878	27.40	230.1	177.6	407.7
0.4617	0.2132	0.7868	0.8870	27.50	230.9	177.4	408.3
0.4633	0.2146	0.7854	0.8862	27.60	231.6	177.2	408.9
0.4648	0.2161	0.7839	0.8854	27.70	232.4	177.1	409.5
0.4664	0.2175	0.7825	0.8846	27.80	233.2	176.9	410.1
0.4679	0.2190	0.7810	0.8838	27.90	234.0	176.8	410.7
0.4695	0.2204	0.7796	0.8829	28.00	234.7	176.6	411.3

cos2 θ	cos θ	L1
0.75	0.866025	423.3006
0.75	0.866025	424.095
0.75	0.866025	424.8881
0.75	0.866025	425.6798
0.75	0.866025	426.4703
0.75	0.866025	427.2595
0.75	0.866025	428.0474
0.75	0.866025	428.8339
0.75	0.866025	429.6192
0.75	0.866025	430.4032
0.75	0.866025	431.1858
0.75	0.866025	431.9671
0.75	0.866025	432.7471
0.75	0.866025	433.5258
0.75	0.866025	434.3032
0.75	0.866025	435.0793
0.75	0.866025	435.854
0.75	0.866025	436.6274
0.75	0.866025	437.3995
0.75	0.866025	438.1702
0.75	0.866025	438.9396
0.75	0.866025	439.7077
0.75	0.866025	440.4744
0.75	0.866025	441.2398
0.75	0.866025	442.0038
0.75	0.866025	442.7665
0.75	0.866025	443.5279
0.75	0.866025	444.2879
0.75	0.866025	445.0465
0.75	0.866025	445.8038
0.75	0.866025	446.5597
0.75	0.866025	447.3143
0.75	0.866025	448.0675
0.75	0.866025	448.8193
0.75	0.866025	449.5698
0.75	0.866025	450.3189
0.75	0.866025	451.0666
0.75	0.866025	451.813
0.75	0.866025	452.558
0.75	0.866025	453.3016
0.75	0.866025	454.0438
0.75	0.866025	454.7846
0.75	0.866025	455.5241
0.75	0.866025	456.2622
0.75	0.866025	456.9988
0.75	0.866025	457.7341
0.75	0.866025	458.468
0.75	0.866025	459.2005
0.75	0.866025	459.9316
0.75	0.866025	460.6613
0.75	0.866025	461.3896
0.75	0.866025	462.1165
0.75	0.866025	462.8419
0.75	0.866025	463.566
0.75	0.866025	464.2887
0.75	0.866025	465.0099
0.75	0.866025	465.7297
0.75	0.866025	466.4481
0.75	0.866025	467.1651
0.75	0.866025	467.8807
0.75	0.866025	468.5948
0.75	0.866025	469.3075
0.75	0.866025	470.0188
0.75	0.866025	470.7287
0.75	0.866025	471.4371
0.75	0.866025	472.144
0.75	0.866025	472.8496
0.75	0.866025	473.5537
0.75	0.866025	474.2563
0.75	0.866025	474.9575

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.4710	0.2219	0.7781	0.8821	28.10	235.5	176.4	411.9
0.4726	0.2233	0.7767	0.8813	28.20	236.3	176.3	412.5
0.4741	0.2248	0.7752	0.8805	28.30	237.0	176.1	413.1
0.4756	0.2262	0.7738	0.8796	28.40	237.8	175.9	413.7
0.4772	0.2277	0.7723	0.8788	28.50	238.6	175.8	414.3
0.4787	0.2291	0.7709	0.8780	28.60	239.3	175.6	414.9
0.4802	0.2306	0.7694	0.8771	28.70	240.1	175.4	415.5
0.4818	0.2321	0.7679	0.8763	28.80	240.9	175.3	416.1
0.4833	0.2336	0.7664	0.8755	28.90	241.6	175.1	416.7
0.4848	0.2350	0.7650	0.8746	29.00	242.4	174.9	417.3
0.4863	0.2365	0.7635	0.8738	29.10	243.2	174.8	417.9
0.4879	0.2380	0.7620	0.8729	29.20	243.9	174.6	418.5
0.4894	0.2395	0.7605	0.8721	29.30	244.7	174.4	419.1
0.4909	0.2410	0.7590	0.8712	29.40	245.5	174.2	419.7
0.4924	0.2425	0.7575	0.8704	29.50	246.2	174.1	420.3
0.4939	0.2440	0.7560	0.8695	29.60	247.0	173.9	420.9
0.4955	0.2455	0.7545	0.8686	29.70	247.7	173.7	421.5
0.4970	0.2470	0.7530	0.8678	29.80	248.5	173.6	422.0
0.4985	0.2485	0.7515	0.8669	29.90	249.2	173.4	422.6
0.5000	0.2500	0.7500	0.8660	30.00	250.0	173.2	423.2
0.5015	0.2515	0.7485	0.8652	30.10	250.8	173.0	423.8
0.5030	0.2530	0.7470	0.8643	30.20	251.5	172.9	424.4
0.5045	0.2545	0.7455	0.8634	30.30	252.3	172.7	424.9
0.5060	0.2561	0.7439	0.8625	30.40	253.0	172.5	425.5
0.5075	0.2576	0.7424	0.8616	30.50	253.8	172.3	426.1
0.5090	0.2591	0.7409	0.8607	30.60	254.5	172.1	426.7
0.5105	0.2607	0.7393	0.8599	30.70	255.3	172.0	427.2
0.5120	0.2622	0.7378	0.8590	30.80	256.0	171.8	427.8
0.5135	0.2637	0.7363	0.8581	30.90	256.8	171.6	428.4
0.5150	0.2653	0.7347	0.8572	31.00	257.5	171.4	429.0
0.5165	0.2668	0.7332	0.8563	31.10	258.3	171.3	429.5
0.5180	0.2684	0.7316	0.8554	31.20	259.0	171.1	430.1
0.5195	0.2699	0.7301	0.8545	31.30	259.8	170.9	430.7
0.5210	0.2715	0.7285	0.8536	31.40	260.5	170.7	431.2
0.5225	0.2730	0.7270	0.8526	31.50	261.2	170.5	431.8
0.5240	0.2746	0.7254	0.8517	31.60	262.0	170.3	432.3
0.5255	0.2761	0.7239	0.8508	31.70	262.7	170.2	432.9
0.5270	0.2777	0.7223	0.8499	31.80	263.5	170.0	433.5
0.5284	0.2792	0.7208	0.8490	31.90	264.2	169.8	434.0
0.5299	0.2808	0.7192	0.8480	32.00	265.0	169.6	434.6
0.5314	0.2824	0.7176	0.8471	32.10	265.7	169.4	435.1
0.5329	0.2840	0.7160	0.8462	32.20	266.4	169.2	435.7
0.5344	0.2855	0.7145	0.8453	32.30	267.2	169.1	436.2
0.5358	0.2871	0.7129	0.8443	32.40	267.9	168.9	436.8
0.5373	0.2887	0.7113	0.8434	32.50	268.6	168.7	437.3
0.5388	0.2903	0.7097	0.8425	32.60	269.4	168.5	437.9
0.5402	0.2919	0.7081	0.8415	32.70	270.1	168.3	438.4
0.5417	0.2934	0.7066	0.8406	32.80	270.9	168.1	439.0
0.5432	0.2950	0.7050	0.8396	32.90	271.6	167.9	439.5
0.5446	0.2966	0.7034	0.8387	33.00	272.3	167.7	440.1
0.5461	0.2982	0.7018	0.8377	33.10	273.1	167.5	440.6
0.5476	0.2998	0.7002	0.8368	33.20	273.8	167.4	441.1
0.5490	0.3014	0.6986	0.8358	33.30	274.5	167.2	441.7
0.5505	0.3030	0.6970	0.8348	33.40	275.2	167.0	442.2
0.5519	0.3046	0.6954	0.8339	33.50	276.0	166.8	442.7
0.5534	0.3062	0.6938	0.8329	33.60	276.7	166.6	443.3
0.5548	0.3079	0.6921	0.8320	33.70	277.4	166.4	443.8
0.5563	0.3095	0.6905	0.8310	33.80	278.1	166.2	444.3
0.5577	0.3111	0.6889	0.8300	33.90	278.9	166.0	444.9
0.5592	0.3127	0.6873	0.8290	34.00	279.6	165.8	445.4
0.5606	0.3143	0.6857	0.8281	34.10	280.3	165.6	445.9
0.5621	0.3159	0.6841	0.8271	34.20	281.0	165.4	446.5
0.5635	0.3176	0.6824	0.8261	34.30	281.8	165.2	447.0
0.5650	0.3192	0.6808	0.8251	34.40	282.5	165.0	447.5
0.5664	0.3208	0.6792	0.8241	34.50	283.2	164.8	448.0
0.5678	0.3224	0.6776	0.8231	34.60	283.9	164.6	448.5
0.5693	0.3241	0.6759	0.8221	34.70	284.6	164.4	449.1
0.5707	0.3257	0.6743	0.8211	34.80	285.4	164.2	449.6
0.5721	0.3274	0.6726	0.8202	34.90	286.1	164.0	450.1
0.5736	0.3290	0.6710	0.8192	35.00	286.8	163.8	450.6

cos2 θ	cos θ	L1
0.75	0.866025	475.6573
0.75	0.866025	476.3556
0.75	0.866025	477.0525
0.75	0.866025	477.7479
0.75	0.866025	478.4419
0.75	0.866025	479.1344
0.75	0.866025	479.8254
0.75	0.866025	480.515
0.75	0.866025	481.2031
0.75	0.866025	481.8897
0.75	0.866025	482.5749
0.75	0.866025	483.2586
0.75	0.866025	483.9409
0.75	0.866025	484.6216
0.75	0.866025	485.3009
0.75	0.866025	485.9787
0.75	0.866025	486.6551
0.75	0.866025	487.3299
0.75	0.866025	488.0033
0.75	0.866025	488.6751
0.75	0.866025	489.3455
0.75	0.866025	490.0144
0.75	0.866025	490.6818
0.75	0.866025	491.3477
0.75	0.866025	492.0121
0.75	0.866025	492.6751
0.75	0.866025	493.3365
0.75	0.866025	493.9964
0.75	0.866025	494.6548
0.75	0.866025	495.3117
0.75	0.866025	495.9671
0.75	0.866025	496.6209
0.75	0.866025	497.2733
0.75	0.866025	497.9242
0.75	0.866025	498.5735
0.75	0.866025	499.2213
0.75	0.866025	499.8676
0.75	0.866025	500.5124
0.75	0.866025	501.1556
0.75	0.866025	501.7973
0.75	0.866025	502.4375
0.75	0.866025	503.0762
0.75	0.866025	503.7133
0.75	0.866025	504.3489
0.75	0.866025	504.983
0.75	0.866025	505.6155
0.75	0.866025	506.2465
0.75	0.866025	506.8759
0.75	0.866025	507.5038
0.75	0.866025	508.1302
0.75	0.866025	508.755
0.75	0.866025	509.3782
0.75	0.866025	509.9999
0.75	0.866025	510.6201
0.75	0.866025	511.2386
0.75	0.866025	511.8557
0.75	0.866025	512.4712
0.75	0.866025	513.0851
0.75	0.866025	513.6974
0.75	0.866025	514.3082
0.75	0.866025	514.9174
0.75	0.866025	515.5251
0.75	0.866025	516.1311
0.75	0.866025	516.7357
0.75	0.866025	517.3386
0.75	0.866025	517.9399
0.75	0.866025	518.5397
0.75	0.866025	519.1379
0.75	0.866025	519.7345
0.75	0.866025	520.3296

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.5750	0.3306	0.6694	0.8181	35.10	287.5	163.6	451.1
0.5764	0.3323	0.6677	0.8171	35.20	288.2	163.4	451.6
0.5779	0.3339	0.6661	0.8161	35.30	288.9	163.2	452.2
0.5793	0.3356	0.6644	0.8151	35.40	289.6	163.0	452.7
0.5807	0.3372	0.6628	0.8141	35.50	290.4	162.8	453.2
0.5821	0.3389	0.6611	0.8131	35.60	291.1	162.6	453.7
0.5835	0.3405	0.6595	0.8121	35.70	291.8	162.4	454.2
0.5850	0.3422	0.6578	0.8111	35.80	292.5	162.2	454.7
0.5864	0.3438	0.6562	0.8100	35.90	293.2	162.0	455.2
0.5878	0.3455	0.6545	0.8090	36.00	293.9	161.8	455.7
0.5892	0.3472	0.6528	0.8080	36.10	294.6	161.6	456.2
0.5906	0.3488	0.6512	0.8070	36.20	295.3	161.4	456.7
0.5920	0.3505	0.6495	0.8059	36.30	296.0	161.2	457.2
0.5934	0.3521	0.6479	0.8049	36.40	296.7	161.0	457.7
0.5948	0.3538	0.6462	0.8039	36.50	297.4	160.8	458.2
0.5962	0.3555	0.6445	0.8028	36.60	298.1	160.6	458.7
0.5976	0.3572	0.6428	0.8018	36.70	298.8	160.4	459.2
0.5990	0.3588	0.6412	0.8007	36.80	299.5	160.1	459.7
0.6004	0.3605	0.6395	0.7997	36.90	300.2	159.9	460.1
0.6018	0.3622	0.6378	0.7986	37.00	300.9	159.7	460.6
0.6032	0.3639	0.6361	0.7976	37.10	301.6	159.5	461.1
0.6046	0.3655	0.6345	0.7965	37.20	302.3	159.3	461.6
0.6060	0.3672	0.6328	0.7955	37.30	303.0	159.1	462.1
0.6074	0.3689	0.6311	0.7944	37.40	303.7	158.9	462.6
0.6088	0.3706	0.6294	0.7934	37.50	304.4	158.7	463.1
0.6101	0.3723	0.6277	0.7923	37.60	305.1	158.5	463.5
0.6115	0.3740	0.6260	0.7912	37.70	305.8	158.2	464.0
0.6129	0.3757	0.6243	0.7902	37.80	306.5	158.0	464.5
0.6143	0.3773	0.6227	0.7891	37.90	307.1	157.8	465.0
0.6157	0.3790	0.6210	0.7880	38.00	307.8	157.6	465.4
0.6170	0.3807	0.6193	0.7869	38.10	308.5	157.4	465.9
0.6184	0.3824	0.6176	0.7859	38.20	309.2	157.2	466.4
0.6198	0.3841	0.6159	0.7848	38.30	309.9	157.0	466.8
0.6211	0.3858	0.6142	0.7837	38.40	310.6	156.7	467.3
0.6225	0.3875	0.6125	0.7826	38.50	311.3	156.5	467.8
0.6239	0.3892	0.6108	0.7815	38.60	311.9	156.3	468.2
0.6252	0.3909	0.6091	0.7804	38.70	312.6	156.1	468.7
0.6266	0.3926	0.6074	0.7793	38.80	313.3	155.9	469.2
0.6280	0.3943	0.6057	0.7782	38.90	314.0	155.6	469.6
0.6293	0.3960	0.6040	0.7771	39.00	314.7	155.4	470.1
0.6307	0.3978	0.6022	0.7760	39.10	315.3	155.2	470.5
0.6320	0.3995	0.6005	0.7749	39.20	316.0	155.0	471.0
0.6334	0.4012	0.5988	0.7738	39.30	316.7	154.8	471.5
0.6347	0.4029	0.5971	0.7727	39.40	317.4	154.5	471.9
0.6361	0.4046	0.5954	0.7716	39.50	318.0	154.3	472.4
0.6374	0.4063	0.5937	0.7705	39.60	318.7	154.1	472.8
0.6388	0.4080	0.5920	0.7694	39.70	319.4	153.9	473.3
0.6401	0.4097	0.5903	0.7683	39.80	320.1	153.7	473.7
0.6414	0.4115	0.5885	0.7672	39.90	320.7	153.4	474.2
0.6428	0.4132	0.5868	0.7660	40.00	321.4	153.2	474.6
0.6441	0.4149	0.5851	0.7649	40.10	322.1	153.0	475.0
0.6455	0.4166	0.5834	0.7638	40.20	322.7	152.8	475.5
0.6468	0.4183	0.5817	0.7627	40.30	323.4	152.5	475.9
0.6481	0.4201	0.5799	0.7615	40.40	324.1	152.3	476.4
0.6494	0.4218	0.5782	0.7604	40.50	324.7	152.1	476.8
0.6508	0.4235	0.5765	0.7593	40.60	325.4	151.9	477.2
0.6521	0.4252	0.5748	0.7581	40.70	326.0	151.6	477.7
0.6534	0.4270	0.5730	0.7570	40.80	326.7	151.4	478.1
0.6547	0.4287	0.5713	0.7559	40.90	327.4	151.2	478.5
0.6561	0.4304	0.5696	0.7547	41.00	328.0	150.9	479.0
0.6574	0.4321	0.5679	0.7536	41.10	328.7	150.7	479.4
0.6587	0.4339	0.5661	0.7524	41.20	329.3	150.5	479.8
0.6600	0.4356	0.5644	0.7513	41.30	330.0	150.3	480.3
0.6613	0.4373	0.5627	0.7501	41.40	330.7	150.0	480.7
0.6626	0.4391	0.5609	0.7490	41.50	331.3	149.8	481.1
0.6639	0.4408	0.5592	0.7478	41.60	332.0	149.6	481.5
0.6652	0.4425	0.5575	0.7466	41.70	332.6	149.3	481.9
0.6665	0.4443	0.5557	0.7455	41.80	333.3	149.1	482.4
0.6678	0.4460	0.5540	0.7443	41.90	333.9	148.9	482.8
0.6691	0.4477	0.5523	0.7431	42.00	334.6	148.6	483.2

cos2 θ	cos θ	L1
0.75	0.866025	520.923
0.75	0.866025	521.5149
0.75	0.866025	522.1052
0.75	0.866025	522.6938
0.75	0.866025	523.2809
0.75	0.866025	523.8664
0.75	0.866025	524.4503
0.75	0.866025	525.0326
0.75	0.866025	525.6133
0.75	0.866025	526.1924
0.75	0.866025	526.7699
0.75	0.866025	527.3458
0.75	0.866025	527.9201
0.75	0.866025	528.4928
0.75	0.866025	529.0639
0.75	0.866025	529.6333
0.75	0.866025	530.2012
0.75	0.866025	530.7674
0.75	0.866025	531.332
0.75	0.866025	531.895
0.75	0.866025	532.4564
0.75	0.866025	533.0162
0.75	0.866025	533.5743
0.75	0.866025	534.1308
0.75	0.866025	534.6857
0.75	0.866025	535.2389
0.75	0.866025	535.7905
0.75	0.866025	536.3405
0.75	0.866025	536.8889
0.75	0.866025	537.4356
0.75	0.866025	537.9807
0.75	0.866025	538.5241
0.75	0.866025	539.0659
0.75	0.866025	539.6061
0.75	0.866025	540.1446
0.75	0.866025	540.6815
0.75	0.866025	541.2167
0.75	0.866025	541.7503
0.75	0.866025	542.2822
0.75	0.866025	542.8125
0.75	0.866025	543.3411
0.75	0.866025	543.8681
0.75	0.866025	544.3934
0.75	0.866025	544.917
0.75	0.866025	545.439
0.75	0.866025	545.9593
0.75	0.866025	546.478
0.75	0.866025	546.995
0.75	0.866025	547.5103
0.75	0.866025	548.024
0.75	0.866025	548.536
0.75	0.866025	549.0463
0.75	0.866025	549.555
0.75	0.866025	550.0619
0.75	0.866025	550.5672
0.75	0.866025	551.0709
0.75	0.866025	551.5728
0.75	0.866025	552.0731
0.75	0.866025	552.5717
0.75	0.866025	553.0686
0.75	0.866025	553.5638
0.75	0.866025	554.0573
0.75	0.866025	554.5492
0.75	0.866025	555.0393
0.75	0.866025	555.5278
0.75	0.866025	556.0145
0.75	0.866025	556.4996
0.75	0.866025	556.983
0.75	0.866025	557.4647
0.75	0.866025	557.9447

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.6704	0.4495	0.5505	0.7420	42.10	335.2	148.4	483.6
0.6717	0.4512	0.5488	0.7408	42.20	335.9	148.2	484.0
0.6730	0.4529	0.5471	0.7396	42.30	336.5	147.9	484.4
0.6743	0.4547	0.5453	0.7385	42.40	337.2	147.7	484.8
0.6756	0.4564	0.5436	0.7373	42.50	337.8	147.5	485.3
0.6769	0.4582	0.5418	0.7361	42.60	338.4	147.2	485.7
0.6782	0.4599	0.5401	0.7349	42.70	339.1	147.0	486.1
0.6794	0.4616	0.5384	0.7337	42.80	339.7	146.7	486.5
0.6807	0.4634	0.5366	0.7325	42.90	340.4	146.5	486.9
0.6820	0.4651	0.5349	0.7314	43.00	341.0	146.3	487.3
0.6833	0.4669	0.5331	0.7302	43.10	341.6	146.0	487.7
0.6845	0.4686	0.5314	0.7290	43.20	342.3	145.8	488.1
0.6858	0.4703	0.5297	0.7278	43.30	342.9	145.6	488.5
0.6871	0.4721	0.5279	0.7266	43.40	343.5	145.3	488.9
0.6884	0.4738	0.5262	0.7254	43.50	344.2	145.1	489.3
0.6896	0.4756	0.5244	0.7242	43.60	344.8	144.8	489.6
0.6909	0.4773	0.5227	0.7230	43.70	345.4	144.6	490.0
0.6921	0.4791	0.5209	0.7218	43.80	346.1	144.4	490.4
0.6934	0.4808	0.5192	0.7206	43.90	346.7	144.1	490.8
0.6947	0.4826	0.5174	0.7193	44.00	347.3	143.9	491.2
0.6959	0.4843	0.5157	0.7181	44.10	348.0	143.6	491.6
0.6972	0.4860	0.5140	0.7169	44.20	348.6	143.4	492.0
0.6984	0.4878	0.5122	0.7157	44.30	349.2	143.1	492.3
0.6997	0.4895	0.5105	0.7145	44.40	349.8	142.9	492.7
0.7009	0.4913	0.5087	0.7133	44.50	350.5	142.7	493.1
0.7022	0.4930	0.5070	0.7120	44.60	351.1	142.4	493.5
0.7034	0.4948	0.5052	0.7108	44.70	351.7	142.2	493.9
0.7046	0.4965	0.5035	0.7096	44.80	352.3	141.9	494.2
0.7059	0.4983	0.5017	0.7083	44.90	352.9	141.7	494.6
0.7071	0.5000	0.5000	0.7071	45.00	353.6	141.4	495.0
0.7083	0.5017	0.4983	0.7059	45.10	354.2	141.2	495.3
0.7096	0.5035	0.4965	0.7046	45.20	354.8	140.9	495.7
0.7108	0.5052	0.4948	0.7034	45.30	355.4	140.7	496.1
0.7120	0.5070	0.4930	0.7022	45.40	356.0	140.4	496.4
0.7133	0.5087	0.4913	0.7009	45.50	356.6	140.2	496.8
0.7145	0.5105	0.4895	0.6997	45.60	357.2	139.9	497.2
0.7157	0.5122	0.4878	0.6984	45.70	357.8	139.7	497.5
0.7169	0.5140	0.4860	0.6972	45.80	358.5	139.4	497.9
0.7181	0.5157	0.4843	0.6959	45.90	359.1	139.2	498.2
0.7193	0.5174	0.4826	0.6947	46.00	359.7	138.9	498.6
0.7206	0.5192	0.4808	0.6934	46.10	360.3	138.7	499.0
0.7218	0.5209	0.4791	0.6921	46.20	360.9	138.4	499.3
0.7230	0.5227	0.4773	0.6909	46.30	361.5	138.2	499.7
0.7242	0.5244	0.4756	0.6896	46.40	362.1	137.9	500.0
0.7254	0.5262	0.4738	0.6884	46.50	362.7	137.7	500.4
0.7266	0.5279	0.4721	0.6871	46.60	363.3	137.4	500.7
0.7278	0.5297	0.4703	0.6858	46.70	363.9	137.2	501.1
0.7290	0.5314	0.4686	0.6845	46.80	364.5	136.9	501.4
0.7302	0.5331	0.4669	0.6833	46.90	365.1	136.7	501.7
0.7314	0.5349	0.4651	0.6820	47.00	365.7	136.4	502.1
0.7325	0.5366	0.4634	0.6807	47.10	366.3	136.1	502.4
0.7337	0.5384	0.4616	0.6794	47.20	366.9	135.9	502.8
0.7349	0.5401	0.4599	0.6782	47.30	367.5	135.6	503.1
0.7361	0.5418	0.4582	0.6769	47.40	368.0	135.4	503.4
0.7373	0.5436	0.4564	0.6756	47.50	368.6	135.1	503.8
0.7385	0.5453	0.4547	0.6743	47.60	369.2	134.9	504.1
0.7396	0.5471	0.4529	0.6730	47.70	369.8	134.6	504.4
0.7408	0.5488	0.4512	0.6717	47.80	370.4	134.3	504.7
0.7420	0.5505	0.4495	0.6704	47.90	371.0	134.1	505.1
0.7431	0.5523	0.4477	0.6691	48.00	371.6	133.8	505.4
0.7443	0.5540	0.4460	0.6678	48.10	372.2	133.6	505.7
0.7455	0.5557	0.4443	0.6665	48.20	372.7	133.3	506.0
0.7466	0.5575	0.4425	0.6652	48.30	373.3	133.0	506.4
0.7478	0.5592	0.4408	0.6639	48.40	373.9	132.8	506.7
0.7490	0.5609	0.4391	0.6626	48.50	374.5	132.5	507.0
0.7501	0.5627	0.4373	0.6613	48.60	375.1	132.3	507.3
0.7513	0.5644	0.4356	0.6600	48.70	375.6	132.0	507.6
0.7524	0.5661	0.4339	0.6587	48.80	376.2	131.7	507.9
0.7536	0.5679	0.4321	0.6574	48.90	376.8	131.5	508.3
0.7547	0.5696	0.4304	0.6561	49.00	377.4	131.2	508.6

cos2 θ	cos θ	L1
0.75	0.866025	558.423
0.75	0.866025	558.8996
0.75	0.866025	559.3744
0.75	0.866025	559.8476
0.75	0.866025	560.3191
0.75	0.866025	560.7889
0.75	0.866025	561.2569
0.75	0.866025	561.7233
0.75	0.866025	562.1879
0.75	0.866025	562.6508
0.75	0.866025	563.1121
0.75	0.866025	563.5715
0.75	0.866025	564.0293
0.75	0.866025	564.4854
0.75	0.866025	564.9397
0.75	0.866025	565.3924
0.75	0.866025	565.8433
0.75	0.866025	566.2924
0.75	0.866025	566.7399
0.75	0.866025	567.1856
0.75	0.866025	567.6296
0.75	0.866025	568.0719
0.75	0.866025	568.5124
0.75	0.866025	568.9512
0.75	0.866025	569.3883
0.75	0.866025	569.8236
0.75	0.866025	570.2572
0.75	0.866025	570.6891
0.75	0.866025	571.1192
0.75	0.866025	571.5476
0.75	0.866025	571.9743
0.75	0.866025	572.3992
0.75	0.866025	572.8223
0.75	0.866025	573.2437
0.75	0.866025	573.6634
0.75	0.866025	574.0813
0.75	0.866025	574.4975
0.75	0.866025	574.9119
0.75	0.866025	575.3246
0.75	0.866025	575.7355
0.75	0.866025	576.1447
0.75	0.866025	576.5521
0.75	0.866025	576.9577
0.75	0.866025	577.3616
0.75	0.866025	577.7638
0.75	0.866025	578.1641
0.75	0.866025	578.5628
0.75	0.866025	578.9596
0.75	0.866025	579.3547
0.75	0.866025	579.748
0.75	0.866025	580.1396
0.75	0.866025	580.5294
0.75	0.866025	580.9174
0.75	0.866025	581.3037
0.75	0.866025	581.6881
0.75	0.866025	582.0709
0.75	0.866025	582.4518
0.75	0.866025	582.831
0.75	0.866025	583.2083
0.75	0.866025	583.584
0.75	0.866025	583.9578
0.75	0.866025	584.3298
0.75	0.866025	584.7001
0.75	0.866025	585.0686
0.75	0.866025	585.4353
0.75	0.866025	585.8003
0.75	0.866025	586.1634
0.75	0.866025	586.5248
0.75	0.866025	586.8843
0.75	0.866025	587.2421

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.7559	0.5713	0.4287	0.6547	49.10	377.9	130.9	508.9
0.7570	0.5730	0.4270	0.6534	49.20	378.5	130.7	509.2
0.7581	0.5748	0.4252	0.6521	49.30	379.1	130.4	509.5
0.7593	0.5765	0.4235	0.6508	49.40	379.6	130.2	509.8
0.7604	0.5782	0.4218	0.6494	49.50	380.2	129.9	510.1
0.7615	0.5799	0.4201	0.6481	49.60	380.8	129.6	510.4
0.7627	0.5817	0.4183	0.6468	49.70	381.3	129.4	510.7
0.7638	0.5834	0.4166	0.6455	49.80	381.9	129.1	511.0
0.7649	0.5851	0.4149	0.6441	49.90	382.5	128.8	511.3
0.7660	0.5868	0.4132	0.6428	50.00	383.0	128.6	511.6
0.7672	0.5885	0.4115	0.6414	50.10	383.6	128.3	511.9
0.7683	0.5903	0.4097	0.6401	50.20	384.1	128.0	512.2
0.7694	0.5920	0.4080	0.6388	50.30	384.7	127.8	512.5
0.7705	0.5937	0.4063	0.6374	50.40	385.3	127.5	512.7
0.7716	0.5954	0.4046	0.6361	50.50	385.8	127.2	513.0
0.7727	0.5971	0.4029	0.6347	50.60	386.4	126.9	513.3
0.7738	0.5988	0.4012	0.6334	50.70	386.9	126.7	513.6
0.7749	0.6005	0.3995	0.6320	50.80	387.5	126.4	513.9
0.7760	0.6022	0.3978	0.6307	50.90	388.0	126.1	514.2
0.7771	0.6040	0.3960	0.6293	51.00	388.6	125.9	514.4
0.7782	0.6057	0.3943	0.6280	51.10	389.1	125.6	514.7
0.7793	0.6074	0.3926	0.6266	51.20	389.7	125.3	515.0
0.7804	0.6091	0.3909	0.6252	51.30	390.2	125.0	515.3
0.7815	0.6108	0.3892	0.6239	51.40	390.8	124.8	515.5
0.7826	0.6125	0.3875	0.6225	51.50	391.3	124.5	515.8
0.7837	0.6142	0.3858	0.6211	51.60	391.8	124.2	516.1
0.7848	0.6159	0.3841	0.6198	51.70	392.4	124.0	516.3
0.7859	0.6176	0.3824	0.6184	51.80	392.9	123.7	516.6
0.7869	0.6193	0.3807	0.6170	51.90	393.5	123.4	516.9
0.7880	0.6210	0.3790	0.6157	52.00	394.0	123.1	517.1
0.7891	0.6227	0.3773	0.6143	52.10	394.5	122.9	517.4
0.7902	0.6243	0.3757	0.6129	52.20	395.1	122.6	517.7
0.7912	0.6260	0.3740	0.6115	52.30	395.6	122.3	517.9
0.7923	0.6277	0.3723	0.6101	52.40	396.1	122.0	518.2
0.7934	0.6294	0.3706	0.6088	52.50	396.7	121.8	518.4
0.7944	0.6311	0.3689	0.6074	52.60	397.2	121.5	518.7
0.7955	0.6328	0.3672	0.6060	52.70	397.7	121.2	518.9
0.7965	0.6345	0.3655	0.6046	52.80	398.3	120.9	519.2
0.7976	0.6361	0.3639	0.6032	52.90	398.8	120.6	519.4
0.7986	0.6378	0.3622	0.6018	53.00	399.3	120.4	519.7
0.7997	0.6395	0.3605	0.6004	53.10	399.8	120.1	519.9
0.8007	0.6412	0.3588	0.5990	53.20	400.4	119.8	520.2
0.8018	0.6428	0.3572	0.5976	53.30	400.9	119.5	520.4
0.8028	0.6445	0.3555	0.5962	53.40	401.4	119.2	520.7
0.8039	0.6462	0.3538	0.5948	53.50	401.9	119.0	520.9
0.8049	0.6479	0.3521	0.5934	53.60	402.4	118.7	521.1
0.8059	0.6495	0.3505	0.5920	53.70	403.0	118.4	521.4
0.8070	0.6512	0.3488	0.5906	53.80	403.5	118.1	521.6
0.8080	0.6528	0.3472	0.5892	53.90	404.0	117.8	521.8
0.8090	0.6545	0.3455	0.5878	54.00	404.5	117.6	522.1
0.8100	0.6562	0.3438	0.5864	54.10	405.0	117.3	522.3
0.8111	0.6578	0.3422	0.5850	54.20	405.5	117.0	522.5
0.8121	0.6595	0.3405	0.5835	54.30	406.0	116.7	522.8
0.8131	0.6611	0.3389	0.5821	54.40	406.6	116.4	523.0
0.8141	0.6628	0.3372	0.5807	54.50	407.1	116.1	523.2
0.8151	0.6644	0.3356	0.5793	54.60	407.6	115.9	523.4
0.8161	0.6661	0.3339	0.5779	54.70	408.1	115.6	523.6
0.8171	0.6677	0.3323	0.5764	54.80	408.6	115.3	523.9
0.8181	0.6694	0.3306	0.5750	54.90	409.1	115.0	524.1
0.8192	0.6710	0.3290	0.5736	55.00	409.6	114.7	524.3
0.8202	0.6726	0.3274	0.5721	55.10	410.1	114.4	524.5
0.8211	0.6743	0.3257	0.5707	55.20	410.6	114.1	524.7
0.8221	0.6759	0.3241	0.5693	55.30	411.1	113.9	524.9
0.8231	0.6776	0.3224	0.5678	55.40	411.6	113.6	525.1
0.8241	0.6792	0.3208	0.5664	55.50	412.1	113.3	525.3
0.8251	0.6808	0.3192	0.5650	55.60	412.6	113.0	525.6
0.8261	0.6824	0.3176	0.5635	55.70	413.0	112.7	525.8
0.8271	0.6841	0.3159	0.5621	55.80	413.5	112.4	526.0
0.8281	0.6857	0.3143	0.5606	55.90	414.0	112.1	526.2
0.8290	0.6873	0.3127	0.5592	56.00	414.5	111.8	526.4

cos2 θ	cos θ	L1
0.75	0.866025	587.5981
0.75	0.866025	587.9523
0.75	0.866025	588.3047
0.75	0.866025	588.6554
0.75	0.866025	589.0042
0.75	0.866025	589.3512
0.75	0.866025	589.6965
0.75	0.866025	590.0399
0.75	0.866025	590.3816
0.75	0.866025	590.7214
0.75	0.866025	591.0595
0.75	0.866025	591.3957
0.75	0.866025	591.7301
0.75	0.866025	592.0628
0.75	0.866025	592.3936
0.75	0.866025	592.7227
0.75	0.866025	593.0499
0.75	0.866025	593.3753
0.75	0.866025	593.6989
0.75	0.866025	594.0207
0.75	0.866025	594.3407
0.75	0.866025	594.6589
0.75	0.866025	594.9753
0.75	0.866025	595.2899
0.75	0.866025	595.6026
0.75	0.866025	595.9136
0.75	0.866025	596.2227
0.75	0.866025	596.53
0.75	0.866025	596.8355
0.75	0.866025	597.1391
0.75	0.866025	597.441
0.75	0.866025	597.741
0.75	0.866025	598.0392
0.75	0.866025	598.3356
0.75	0.866025	598.6302
0.75	0.866025	598.9229
0.75	0.866025	599.2139
0.75	0.866025	599.5029
0.75	0.866025	599.7902
0.75	0.866025	600.0757
0.75	0.866025	600.3593
0.75	0.866025	600.641
0.75	0.866025	600.921
0.75	0.866025	601.1991
0.75	0.866025	601.4754
0.75	0.866025	601.7499
0.75	0.866025	602.0225
0.75	0.866025	602.2933
0.75	0.866025	602.5622
0.75	0.866025	602.8294
0.75	0.866025	603.0947
0.75	0.866025	603.3581
0.75	0.866025	603.6197
0.75	0.866025	603.8795
0.75	0.866025	604.1374
0.75	0.866025	604.3935
0.75	0.866025	604.6478
0.75	0.866025	604.9002
0.75	0.866025	605.1507
0.75	0.866025	605.3995
0.75	0.866025	605.6463
0.75	0.866025	605.8914
0.75	0.866025	606.1346
0.75	0.866025	606.3759
0.75	0.866025	606.6154
0.75	0.866025	606.853
0.75	0.866025	607.0888
0.75	0.866025	607.3228
0.75	0.866025	607.5549
0.75	0.866025	607.7851

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.8300	0.6889	0.3111	0.5577	56.10	415.0	111.5	526.6
0.8310	0.6905	0.3095	0.5563	56.20	415.5	111.3	526.8
0.8320	0.6921	0.3079	0.5548	56.30	416.0	111.0	526.9
0.8329	0.6938	0.3062	0.5534	56.40	416.5	110.7	527.1
0.8339	0.6954	0.3046	0.5519	56.50	416.9	110.4	527.3
0.8348	0.6970	0.3030	0.5505	56.60	417.4	110.1	527.5
0.8358	0.6986	0.3014	0.5490	56.70	417.9	109.8	527.7
0.8368	0.7002	0.2998	0.5476	56.80	418.4	109.5	527.9
0.8377	0.7018	0.2982	0.5461	56.90	418.9	109.2	528.1
0.8387	0.7034	0.2966	0.5446	57.00	419.3	108.9	528.3
0.8396	0.7050	0.2950	0.5432	57.10	419.8	108.6	528.4
0.8406	0.7066	0.2934	0.5417	57.20	420.3	108.3	528.6
0.8415	0.7081	0.2919	0.5402	57.30	420.8	108.0	528.8
0.8425	0.7097	0.2903	0.5388	57.40	421.2	107.8	529.0
0.8434	0.7113	0.2887	0.5373	57.50	421.7	107.5	529.2
0.8443	0.7129	0.2871	0.5358	57.60	422.2	107.2	529.3
0.8453	0.7145	0.2855	0.5344	57.70	422.6	106.9	529.5
0.8462	0.7160	0.2840	0.5329	57.80	423.1	106.6	529.7
0.8471	0.7176	0.2824	0.5314	57.90	423.6	106.3	529.8
0.8480	0.7192	0.2808	0.5299	58.00	424.0	106.0	530.0
0.8490	0.7208	0.2792	0.5284	58.10	424.5	105.7	530.2
0.8499	0.7223	0.2777	0.5270	58.20	424.9	105.4	530.3
0.8508	0.7239	0.2761	0.5255	58.30	425.4	105.1	530.5
0.8517	0.7254	0.2746	0.5240	58.40	425.9	104.8	530.7
0.8526	0.7270	0.2730	0.5225	58.50	426.3	104.5	530.8
0.8536	0.7285	0.2715	0.5210	58.60	426.8	104.2	531.0
0.8545	0.7301	0.2699	0.5195	58.70	427.2	103.9	531.1
0.8554	0.7316	0.2684	0.5180	58.80	427.7	103.6	531.3
0.8563	0.7332	0.2668	0.5165	58.90	428.1	103.3	531.4
0.8572	0.7347	0.2653	0.5150	59.00	428.6	103.0	531.6
0.8581	0.7363	0.2637	0.5135	59.10	429.0	102.7	531.7
0.8590	0.7378	0.2622	0.5120	59.20	429.5	102.4	531.9
0.8599	0.7393	0.2607	0.5105	59.30	429.9	102.1	532.0
0.8607	0.7409	0.2591	0.5090	59.40	430.4	101.8	532.2
0.8616	0.7424	0.2576	0.5075	59.50	430.8	101.5	532.3
0.8625	0.7439	0.2561	0.5060	59.60	431.3	101.2	532.5
0.8634	0.7455	0.2545	0.5045	59.70	431.7	100.9	532.6
0.8643	0.7470	0.2530	0.5030	59.80	432.1	100.6	532.7
0.8652	0.7485	0.2515	0.5015	59.90	432.6	100.3	532.9
0.8660	0.7500	0.2500	0.5000	60.00	433.0	100.0	533.0
0.8669	0.7515	0.2485	0.4985	60.10	433.4	99.7	533.1
0.8678	0.7530	0.2470	0.4970	60.20	433.9	99.4	533.3
0.8686	0.7545	0.2455	0.4955	60.30	434.3	99.1	533.4
0.8695	0.7560	0.2440	0.4939	60.40	434.7	98.8	533.5
0.8704	0.7575	0.2425	0.4924	60.50	435.2	98.5	533.7
0.8712	0.7590	0.2410	0.4909	60.60	435.6	98.2	533.8
0.8721	0.7605	0.2395	0.4894	60.70	436.0	97.9	533.9
0.8729	0.7620	0.2380	0.4879	60.80	436.5	97.6	534.0
0.8738	0.7635	0.2365	0.4863	60.90	436.9	97.3	534.2
0.8746	0.7650	0.2350	0.4848	61.00	437.3	97.0	534.3
0.8755	0.7664	0.2336	0.4833	61.10	437.7	96.7	534.4
0.8763	0.7679	0.2321	0.4818	61.20	438.2	96.4	534.5
0.8771	0.7694	0.2306	0.4802	61.30	438.6	96.0	534.6
0.8780	0.7709	0.2291	0.4787	61.40	439.0	95.7	534.7
0.8788	0.7723	0.2277	0.4772	61.50	439.4	95.4	534.8
0.8796	0.7738	0.2262	0.4756	61.60	439.8	95.1	534.9
0.8805	0.7752	0.2248	0.4741	61.70	440.2	94.8	535.1
0.8813	0.7767	0.2233	0.4726	61.80	440.7	94.5	535.2
0.8821	0.7781	0.2219	0.4710	61.90	441.1	94.2	535.3
0.8829	0.7796	0.2204	0.4695	62.00	441.5	93.9	535.4
0.8838	0.7810	0.2190	0.4679	62.10	441.9	93.6	535.5
0.8846	0.7825	0.2175	0.4664	62.20	442.3	93.3	535.6
0.8854	0.7839	0.2161	0.4648	62.30	442.7	93.0	535.7
0.8862	0.7854	0.2146	0.4633	62.40	443.1	92.7	535.8
0.8870	0.7868	0.2132	0.4617	62.50	443.5	92.3	535.9
0.8878	0.7882	0.2118	0.4602	62.60	443.9	92.0	535.9
0.8886	0.7896	0.2104	0.4586	62.70	444.3	91.7	536.0
0.8894	0.7911	0.2089	0.4571	62.80	444.7	91.4	536.1
0.8902	0.7925	0.2075	0.4555	62.90	445.1	91.1	536.2
0.8910	0.7939	0.2061	0.4540	63.00	445.5	90.8	536.3

cos2 θ	cos θ	L1
0.75	0.866025	608.0135
0.75	0.866025	608.2401
0.75	0.866025	608.4648
0.75	0.866025	608.6876
0.75	0.866025	608.9086
0.75	0.866025	609.1277
0.75	0.866025	609.345
0.75	0.866025	609.5604
0.75	0.866025	609.774
0.75	0.866025	609.9857
0.75	0.866025	610.1955
0.75	0.866025	610.4035
0.75	0.866025	610.6096
0.75	0.866025	610.8139
0.75	0.866025	611.0163
0.75	0.866025	611.2169
0.75	0.866025	611.4155
0.75	0.866025	611.6124
0.75	0.866025	611.8073
0.75	0.866025	612.0004
0.75	0.866025	612.1916
0.75	0.866025	612.381
0.75	0.866025	612.5685
0.75	0.866025	612.7541
0.75	0.866025	612.9379
0.75	0.866025	613.1198
0.75	0.866025	613.2998
0.75	0.866025	613.478
0.75	0.866025	613.6543
0.75	0.866025	613.8287
0.75	0.866025	614.0013
0.75	0.866025	614.172
0.75	0.866025	614.3408
0.75	0.866025	614.5077
0.75	0.866025	614.6728
0.75	0.866025	614.836
0.75	0.866025	614.9973
0.75	0.866025	615.1568
0.75	0.866025	615.3143
0.75	0.866025	615.4701
0.75	0.866025	615.6239
0.75	0.866025	615.7758
0.75	0.866025	615.9259
0.75	0.866025	616.0741
0.75	0.866025	616.2204
0.75	0.866025	616.3649
0.75	0.866025	616.5075
0.75	0.866025	616.6482
0.75	0.866025	616.787
0.75	0.866025	616.9239
0.75	0.866025	617.059
0.75	0.866025	617.1921
0.75	0.866025	617.3234
0.75	0.866025	617.4529
0.75	0.866025	617.5804
0.75	0.866025	617.706
0.75	0.866025	617.8298
0.75	0.866025	617.9517
0.75	0.866025	618.0717
0.75	0.866025	618.1898
0.75	0.866025	618.3061
0.75	0.866025	618.4204
0.75	0.866025	618.5329
0.75	0.866025	618.6435
0.75	0.866025	618.7522
0.75	0.866025	618.859
0.75	0.866025	618.964
0.75	0.866025	619.067
0.75	0.866025	619.1682
0.75	0.866025	619.2675

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.8918	0.7953	0.2047	0.4524	63.10	445.9	90.5	536.4
0.8926	0.7967	0.2033	0.4509	63.20	446.3	90.2	536.5
0.8934	0.7981	0.2019	0.4493	63.30	446.7	89.9	536.5
0.8942	0.7995	0.2005	0.4478	63.40	447.1	89.6	536.6
0.8949	0.8009	0.1991	0.4462	63.50	447.5	89.2	536.7
0.8957	0.8023	0.1977	0.4446	63.60	447.9	88.9	536.8
0.8965	0.8037	0.1963	0.4431	63.70	448.2	88.6	536.9
0.8973	0.8051	0.1949	0.4415	63.80	448.6	88.3	536.9
0.8980	0.8065	0.1935	0.4399	63.90	449.0	88.0	537.0
0.8988	0.8078	0.1922	0.4384	64.00	449.4	87.7	537.1
0.8996	0.8092	0.1908	0.4368	64.10	449.8	87.4	537.1
0.9003	0.8106	0.1894	0.4352	64.20	450.2	87.0	537.2
0.9011	0.8119	0.1881	0.4337	64.30	450.5	86.7	537.3
0.9018	0.8133	0.1867	0.4321	64.40	450.9	86.4	537.3
0.9026	0.8147	0.1853	0.4305	64.50	451.3	86.1	537.4
0.9033	0.8160	0.1840	0.4289	64.60	451.7	85.8	537.5
0.9041	0.8174	0.1826	0.4274	64.70	452.0	85.5	537.5
0.9048	0.8187	0.1813	0.4258	64.80	452.4	85.2	537.6
0.9056	0.8201	0.1799	0.4242	64.90	452.8	84.8	537.6
0.9063	0.8214	0.1786	0.4226	65.00	453.2	84.5	537.7
0.9070	0.8227	0.1773	0.4210	65.10	453.5	84.2	537.7
0.9078	0.8241	0.1759	0.4195	65.20	453.9	83.9	537.8
0.9085	0.8254	0.1746	0.4179	65.30	454.3	83.6	537.8
0.9092	0.8267	0.1733	0.4163	65.40	454.6	83.3	537.9
0.9100	0.8280	0.1720	0.4147	65.50	455.0	82.9	537.9
0.9107	0.8293	0.1707	0.4131	65.60	455.3	82.6	538.0
0.9114	0.8307	0.1693	0.4115	65.70	455.7	82.3	538.0
0.9121	0.8320	0.1680	0.4099	65.80	456.1	82.0	538.0
0.9128	0.8333	0.1667	0.4083	65.90	456.4	81.7	538.1
0.9135	0.8346	0.1654	0.4067	66.00	456.8	81.3	538.1
0.9143	0.8359	0.1641	0.4051	66.10	457.1	81.0	538.2
0.9150	0.8372	0.1628	0.4035	66.20	457.5	80.7	538.2
0.9157	0.8384	0.1616	0.4019	66.30	457.8	80.4	538.2
0.9164	0.8397	0.1603	0.4003	66.40	458.2	80.1	538.3
0.9171	0.8410	0.1590	0.3987	66.50	458.5	79.7	538.3
0.9178	0.8423	0.1577	0.3971	66.60	458.9	79.4	538.3
0.9184	0.8435	0.1565	0.3955	66.70	459.2	79.1	538.3
0.9191	0.8448	0.1552	0.3939	66.80	459.6	78.8	538.4
0.9198	0.8461	0.1539	0.3923	66.90	459.9	78.5	538.4
0.9205	0.8473	0.1527	0.3907	67.00	460.3	78.1	538.4
0.9212	0.8486	0.1514	0.3891	67.10	460.6	77.8	538.4
0.9219	0.8498	0.1502	0.3875	67.20	460.9	77.5	538.4
0.9225	0.8511	0.1489	0.3859	67.30	461.3	77.2	538.5
0.9232	0.8523	0.1477	0.3843	67.40	461.6	76.9	538.5
0.9239	0.8536	0.1464	0.3827	67.50	461.9	76.5	538.5
0.9245	0.8548	0.1452	0.3811	67.60	462.3	76.2	538.5
0.9252	0.8560	0.1440	0.3795	67.70	462.6	75.9	538.5
0.9259	0.8572	0.1428	0.3778	67.80	462.9	75.6	538.5
0.9265	0.8585	0.1415	0.3762	67.90	463.3	75.2	538.5
0.9272	0.8597	0.1403	0.3746	68.00	463.6	74.9	538.5
0.9278	0.8609	0.1391	0.3730	68.10	463.9	74.6	538.5
0.9285	0.8621	0.1379	0.3714	68.20	464.2	74.3	538.5
0.9291	0.8633	0.1367	0.3697	68.30	464.6	73.9	538.5
0.9298	0.8645	0.1355	0.3681	68.40	464.9	73.6	538.5
0.9304	0.8657	0.1343	0.3665	68.50	465.2	73.3	538.5
0.9311	0.8669	0.1331	0.3649	68.60	465.5	73.0	538.5
0.9317	0.8680	0.1320	0.3633	68.70	465.8	72.7	538.5
0.9323	0.8692	0.1308	0.3616	68.80	466.2	72.3	538.5
0.9330	0.8704	0.1296	0.3600	68.90	466.5	72.0	538.5
0.9336	0.8716	0.1284	0.3584	69.00	466.8	71.7	538.5
0.9342	0.8727	0.1273	0.3567	69.10	467.1	71.3	538.4
0.9348	0.8739	0.1261	0.3551	69.20	467.4	71.0	538.4
0.9354	0.8751	0.1249	0.3535	69.30	467.7	70.7	538.4
0.9361	0.8762	0.1238	0.3518	69.40	468.0	70.4	538.4
0.9367	0.8774	0.1226	0.3502	69.50	468.3	70.0	538.4
0.9373	0.8785	0.1215	0.3486	69.60	468.6	69.7	538.4
0.9379	0.8796	0.1204	0.3469	69.70	468.9	69.4	538.3
0.9385	0.8808	0.1192	0.3453	69.80	469.2	69.1	538.3
0.9391	0.8819	0.1181	0.3437	69.90	469.5	68.7	538.3
0.9397	0.8830	0.1170	0.3420	70.00	469.8	68.4	538.3

cos2 θ	cos θ	L1
0.75	0.866025	619.3649
0.75	0.866025	619.4604
0.75	0.866025	619.554
0.75	0.866025	619.6457
0.75	0.866025	619.7356
0.75	0.866025	619.8235
0.75	0.866025	619.9096
0.75	0.866025	619.9938
0.75	0.866025	620.0761
0.75	0.866025	620.1565
0.75	0.866025	620.235
0.75	0.866025	620.3116
0.75	0.866025	620.3863
0.75	0.866025	620.4592
0.75	0.866025	620.5301
0.75	0.866025	620.5992
0.75	0.866025	620.6664
0.75	0.866025	620.7317
0.75	0.866025	620.7951
0.75	0.866025	620.8566
0.75	0.866025	620.9162
0.75	0.866025	620.9739
0.75	0.866025	621.0297
0.75	0.866025	621.0836
0.75	0.866025	621.1357
0.75	0.866025	621.1858
0.75	0.866025	621.2341
0.75	0.866025	621.2805
0.75	0.866025	621.3249
0.75	0.866025	621.3675
0.75	0.866025	621.4082
0.75	0.866025	621.447
0.75	0.866025	621.4839
0.75	0.866025	621.5189
0.75	0.866025	621.552
0.75	0.866025	621.5833
0.75	0.866025	621.6126
0.75	0.866025	621.64
0.75	0.866025	621.6656
0.75	0.866025	621.6892
0.75	0.866025	621.711
0.75	0.866025	621.7308
0.75	0.866025	621.7488
0.75	0.866025	621.7649
0.75	0.866025	621.779
0.75	0.866025	621.7913
0.75	0.866025	621.8017
0.75	0.866025	621.8102
0.75	0.866025	621.8168
0.75	0.866025	621.8215
0.75	0.866025	621.8243
0.75	0.866025	621.8253
0.75	0.866025	621.8243
0.75	0.866025	621.8214
0.75	0.866025	621.8167
0.75	0.866025	621.81
0.75	0.866025	621.8015
0.75	0.866025	621.791
0.75	0.866025	621.7787
0.75	0.866025	621.7644
0.75	0.866025	621.7483
0.75	0.866025	621.7303
0.75	0.866025	621.7104
0.75	0.866025	621.6886
0.75	0.866025	621.6649
0.75	0.866025	621.6393
0.75	0.866025	621.6118
0.75	0.866025	621.5824
0.75	0.866025	621.5511
0.75	0.866025	621.518

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.9403	0.8841	0.1159	0.3404	70.10	470.1	68.1	538.2
0.9409	0.8853	0.1147	0.3387	70.20	470.4	67.7	538.2
0.9415	0.8864	0.1136	0.3371	70.30	470.7	67.4	538.2
0.9421	0.8875	0.1125	0.3355	70.40	471.0	67.1	538.1
0.9426	0.8886	0.1114	0.3338	70.50	471.3	66.8	538.1
0.9432	0.8897	0.1103	0.3322	70.60	471.6	66.4	538.0
0.9438	0.8908	0.1092	0.3305	70.70	471.9	66.1	538.0
0.9444	0.8918	0.1082	0.3289	70.80	472.2	65.8	538.0
0.9449	0.8929	0.1071	0.3272	70.90	472.5	65.4	537.9
0.9455	0.8940	0.1060	0.3256	71.00	472.8	65.1	537.9
0.9461	0.8951	0.1049	0.3239	71.10	473.0	64.8	537.8
0.9466	0.8961	0.1039	0.3223	71.20	473.3	64.5	537.8
0.9472	0.8972	0.1028	0.3206	71.30	473.6	64.1	537.7
0.9478	0.8983	0.1017	0.3190	71.40	473.9	63.8	537.7
0.9483	0.8993	0.1007	0.3173	71.50	474.2	63.5	537.6
0.9489	0.9004	0.0996	0.3156	71.60	474.4	63.1	537.6
0.9494	0.9014	0.0986	0.3140	71.70	474.7	62.8	537.5
0.9500	0.9024	0.0976	0.3123	71.80	475.0	62.5	537.5
0.9505	0.9035	0.0965	0.3107	71.90	475.3	62.1	537.4
0.9511	0.9045	0.0955	0.3090	72.00	475.5	61.8	537.3
0.9516	0.9055	0.0945	0.3074	72.10	475.8	61.5	537.3
0.9521	0.9066	0.0934	0.3057	72.20	476.1	61.1	537.2
0.9527	0.9076	0.0924	0.3040	72.30	476.3	60.8	537.1
0.9532	0.9086	0.0914	0.3024	72.40	476.6	60.5	537.1
0.9537	0.9096	0.0904	0.3007	72.50	476.9	60.1	537.0
0.9542	0.9106	0.0894	0.2990	72.60	477.1	59.8	536.9
0.9548	0.9116	0.0884	0.2974	72.70	477.4	59.5	536.9
0.9553	0.9126	0.0874	0.2957	72.80	477.6	59.1	536.8
0.9558	0.9135	0.0865	0.2940	72.90	477.9	58.8	536.7
0.9563	0.9145	0.0855	0.2924	73.00	478.2	58.5	536.6
0.9568	0.9155	0.0845	0.2907	73.10	478.4	58.1	536.5
0.9573	0.9165	0.0835	0.2890	73.20	478.7	57.8	536.5
0.9578	0.9174	0.0826	0.2874	73.30	478.9	57.5	536.4
0.9583	0.9184	0.0816	0.2857	73.40	479.2	57.1	536.3
0.9588	0.9193	0.0807	0.2840	73.50	479.4	56.8	536.2
0.9593	0.9203	0.0797	0.2823	73.60	479.7	56.5	536.1
0.9598	0.9212	0.0788	0.2807	73.70	479.9	56.1	536.0
0.9603	0.9222	0.0778	0.2790	73.80	480.1	55.8	535.9
0.9608	0.9231	0.0769	0.2773	73.90	480.4	55.5	535.9
0.9613	0.9240	0.0760	0.2756	74.00	480.6	55.1	535.8
0.9617	0.9249	0.0751	0.2740	74.10	480.9	54.8	535.7
0.9622	0.9259	0.0741	0.2723	74.20	481.1	54.5	535.6
0.9627	0.9268	0.0732	0.2706	74.30	481.3	54.1	535.5
0.9632	0.9277	0.0723	0.2689	74.40	481.6	53.8	535.4
0.9636	0.9286	0.0714	0.2672	74.50	481.8	53.4	535.3
0.9641	0.9295	0.0705	0.2656	74.60	482.0	53.1	535.2
0.9646	0.9304	0.0696	0.2639	74.70	482.3	52.8	535.1
0.9650	0.9313	0.0687	0.2622	74.80	482.5	52.4	534.9
0.9655	0.9321	0.0679	0.2605	74.90	482.7	52.1	534.8
0.9659	0.9330	0.0670	0.2588	75.00	483.0	51.8	534.7
0.9664	0.9339	0.0661	0.2571	75.10	483.2	51.4	534.6
0.9668	0.9347	0.0653	0.2554	75.20	483.4	51.1	534.5
0.9673	0.9356	0.0644	0.2538	75.30	483.6	50.8	534.4
0.9677	0.9365	0.0635	0.2521	75.40	483.9	50.4	534.3
0.9681	0.9373	0.0627	0.2504	75.50	484.1	50.1	534.1
0.9686	0.9382	0.0618	0.2487	75.60	484.3	49.7	534.0
0.9690	0.9390	0.0610	0.2470	75.70	484.5	49.4	533.9
0.9694	0.9398	0.0602	0.2453	75.80	484.7	49.1	533.8
0.9699	0.9407	0.0593	0.2436	75.90	484.9	48.7	533.7
0.9703	0.9415	0.0585	0.2419	76.00	485.1	48.4	533.5
0.9707	0.9423	0.0577	0.2402	76.10	485.4	48.0	533.4
0.9711	0.9431	0.0569	0.2385	76.20	485.6	47.7	533.3
0.9715	0.9439	0.0561	0.2368	76.30	485.8	47.4	533.1
0.9720	0.9447	0.0553	0.2351	76.40	486.0	47.0	533.0
0.9724	0.9455	0.0545	0.2334	76.50	486.2	46.7	532.9
0.9728	0.9463	0.0537	0.2317	76.60	486.4	46.3	532.7
0.9732	0.9471	0.0529	0.2300	76.70	486.6	46.0	532.6
0.9736	0.9479	0.0521	0.2284	76.80	486.8	45.7	532.5
0.9740	0.9486	0.0514	0.2267	76.90	487.0	45.3	532.3
0.9744	0.9494	0.0506	0.2250	77.00	487.2	45.0	532.2

cos2 θ	cos θ	L1
0.75	0.866025	621.4829
0.75	0.866025	621.4459
0.75	0.866025	621.4071
0.75	0.866025	621.3663
0.75	0.866025	621.3237
0.75	0.866025	621.2792
0.75	0.866025	621.2328
0.75	0.866025	621.1845
0.75	0.866025	621.1342
0.75	0.866025	621.0821
0.75	0.866025	621.0282
0.75	0.866025	620.9723
0.75	0.866025	620.9145
0.75	0.866025	620.8548
0.75	0.866025	620.7933
0.75	0.866025	620.7298
0.75	0.866025	620.6645
0.75	0.866025	620.5973
0.75	0.866025	620.5282
0.75	0.866025	620.4572
0.75	0.866025	620.3843
0.75	0.866025	620.3095
0.75	0.866025	620.2328
0.75	0.866025	620.1542
0.75	0.866025	620.0738
0.75	0.866025	619.9914
0.75	0.866025	619.9072
0.75	0.866025	619.8211
0.75	0.866025	619.7331
0.75	0.866025	619.6432
0.75	0.866025	619.5514
0.75	0.866025	619.4577
0.75	0.866025	619.3621
0.75	0.866025	619.2647
0.75	0.866025	619.1654
0.75	0.866025	619.0641
0.75	0.866025	618.961
0.75	0.866025	618.8561
0.75	0.866025	618.7492
0.75	0.866025	618.6404
0.75	0.866025	618.5298
0.75	0.866025	618.4172
0.75	0.866025	618.3028
0.75	0.866025	618.1865
0.75	0.866025	618.0684
0.75	0.866025	617.9483
0.75	0.866025	617.8264
0.75	0.866025	617.7025
0.75	0.866025	617.5768
0.75	0.866025	617.4492
0.75	0.866025	617.3198
0.75	0.866025	617.1884
0.75	0.866025	617.0552
0.75	0.866025	616.9201
0.75	0.866025	616.7831
0.75	0.866025	616.6442
0.75	0.866025	616.5035
0.75	0.866025	616.3608
0.75	0.866025	616.2163
0.75	0.866025	616.07
0.75	0.866025	615.9217
0.75	0.866025	615.7716
0.75	0.866025	615.6196
0.75	0.866025	615.4657
0.75	0.866025	615.3099
0.75	0.866025	615.1523
0.75	0.866025	614.9928
0.75	0.866025	614.8314
0.75	0.866025	614.6682
0.75	0.866025	614.503

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.9748	0.9502	0.0498	0.2233	77.10	487.4	44.7	532.0
0.9751	0.9509	0.0491	0.2215	77.20	487.6	44.3	531.9
0.9755	0.9517	0.0483	0.2198	77.30	487.8	44.0	531.7
0.9759	0.9524	0.0476	0.2181	77.40	488.0	43.6	531.6
0.9763	0.9532	0.0468	0.2164	77.50	488.1	43.3	531.4
0.9767	0.9539	0.0461	0.2147	77.60	488.3	42.9	531.3
0.9770	0.9546	0.0454	0.2130	77.70	488.5	42.6	531.1
0.9774	0.9553	0.0447	0.2113	77.80	488.7	42.3	531.0
0.9778	0.9561	0.0439	0.2096	77.90	488.9	41.9	530.8
0.9781	0.9568	0.0432	0.2079	78.00	489.1	41.6	530.7
0.9785	0.9575	0.0425	0.2062	78.10	489.3	41.2	530.5
0.9789	0.9582	0.0418	0.2045	78.20	489.4	40.9	530.3
0.9792	0.9589	0.0411	0.2028	78.30	489.6	40.6	530.2
0.9796	0.9596	0.0404	0.2011	78.40	489.8	40.2	530.0
0.9799	0.9603	0.0397	0.1994	78.50	490.0	39.9	529.8
0.9803	0.9609	0.0391	0.1977	78.60	490.1	39.5	529.7
0.9806	0.9616	0.0384	0.1959	78.70	490.3	39.2	529.5
0.9810	0.9623	0.0377	0.1942	78.80	490.5	38.8	529.3
0.9813	0.9629	0.0371	0.1925	78.90	490.6	38.5	529.2
0.9816	0.9636	0.0364	0.1908	79.00	490.8	38.2	529.0
0.9820	0.9642	0.0358	0.1891	79.10	491.0	37.8	528.8
0.9823	0.9649	0.0351	0.1874	79.20	491.1	37.5	528.6
0.9826	0.9655	0.0345	0.1857	79.30	491.3	37.1	528.4
0.9829	0.9662	0.0338	0.1840	79.40	491.5	36.8	528.3
0.9833	0.9668	0.0332	0.1822	79.50	491.6	36.4	528.1
0.9836	0.9674	0.0326	0.1805	79.60	491.8	36.1	527.9
0.9839	0.9680	0.0320	0.1788	79.70	491.9	35.8	527.7
0.9842	0.9686	0.0314	0.1771	79.80	492.1	35.4	527.5
0.9845	0.9692	0.0308	0.1754	79.90	492.3	35.1	527.3
0.9848	0.9698	0.0302	0.1736	80.00	492.4	34.7	527.1
0.9851	0.9704	0.0296	0.1719	80.10	492.6	34.4	526.9
0.9854	0.9710	0.0290	0.1702	80.20	492.7	34.0	526.7
0.9857	0.9716	0.0284	0.1685	80.30	492.9	33.7	526.5
0.9860	0.9722	0.0278	0.1668	80.40	493.0	33.4	526.4
0.9863	0.9728	0.0272	0.1650	80.50	493.1	33.0	526.2
0.9866	0.9733	0.0267	0.1633	80.60	493.3	32.7	526.0
0.9869	0.9739	0.0261	0.1616	80.70	493.4	32.3	525.7
0.9871	0.9744	0.0256	0.1599	80.80	493.6	32.0	525.5
0.9874	0.9750	0.0250	0.1582	80.90	493.7	31.6	525.3
0.9877	0.9755	0.0245	0.1564	81.00	493.8	31.3	525.1
0.9880	0.9761	0.0239	0.1547	81.10	494.0	30.9	524.9
0.9882	0.9766	0.0234	0.1530	81.20	494.1	30.6	524.7
0.9885	0.9771	0.0229	0.1513	81.30	494.2	30.3	524.5
0.9888	0.9776	0.0224	0.1495	81.40	494.4	29.9	524.3
0.9890	0.9782	0.0218	0.1478	81.50	494.5	29.6	524.1
0.9893	0.9787	0.0213	0.1461	81.60	494.6	29.2	523.9
0.9895	0.9792	0.0208	0.1444	81.70	494.8	28.9	523.6
0.9898	0.9797	0.0203	0.1426	81.80	494.9	28.5	523.4
0.9900	0.9801	0.0199	0.1409	81.90	495.0	28.2	523.2
0.9903	0.9806	0.0194	0.1392	82.00	495.1	27.8	523.0
0.9905	0.9811	0.0189	0.1374	82.10	495.3	27.5	522.7
0.9907	0.9816	0.0184	0.1357	82.20	495.4	27.1	522.5
0.9910	0.9820	0.0180	0.1340	82.30	495.5	26.8	522.3
0.9912	0.9825	0.0175	0.1323	82.40	495.6	26.5	522.1
0.9914	0.9830	0.0170	0.1305	82.50	495.7	26.1	521.8
0.9917	0.9834	0.0166	0.1288	82.60	495.8	25.8	521.6
0.9919	0.9839	0.0161	0.1271	82.70	495.9	25.4	521.4
0.9921	0.9843	0.0157	0.1253	82.80	496.1	25.1	521.1
0.9923	0.9847	0.0153	0.1236	82.90	496.2	24.7	520.9
0.9925	0.9851	0.0149	0.1219	83.00	496.3	24.4	520.6
0.9928	0.9856	0.0144	0.1201	83.10	496.4	24.0	520.4
0.9930	0.9860	0.0140	0.1184	83.20	496.5	23.7	520.2
0.9932	0.9864	0.0136	0.1167	83.30	496.6	23.3	519.9
0.9934	0.9868	0.0132	0.1149	83.40	496.7	23.0	519.7
0.9936	0.9872	0.0128	0.1132	83.50	496.8	22.6	519.4
0.9938	0.9876	0.0124	0.1115	83.60	496.9	22.3	519.2
0.9940	0.9880	0.0120	0.1097	83.70	497.0	21.9	518.9
0.9942	0.9883	0.0117	0.1080	83.80	497.1	21.6	518.7
0.9943	0.9887	0.0113	0.1063	83.90	497.2	21.3	518.4
0.9945	0.9891	0.0109	0.1045	84.00	497.3	20.9	518.2

cos2 θ	cos θ	L1
0.75	0.866025	614.336
0.75	0.866025	614.1672
0.75	0.866025	613.9964
0.75	0.866025	613.8238
0.75	0.866025	613.6494
0.75	0.866025	613.473
0.75	0.866025	613.2948
0.75	0.866025	613.1147
0.75	0.866025	612.9327
0.75	0.866025	612.7489
0.75	0.866025	612.5632
0.75	0.866025	612.3757
0.75	0.866025	612.1863
0.75	0.866025	611.995
0.75	0.866025	611.8018
0.75	0.866025	611.6068
0.75	0.866025	611.41
0.75	0.866025	611.2112
0.75	0.866025	611.0106
0.75	0.866025	610.8082
0.75	0.866025	610.6038
0.75	0.866025	610.3977
0.75	0.866025	610.1896
0.75	0.866025	609.9797
0.75	0.866025	609.768
0.75	0.866025	609.5544
0.75	0.866025	609.3389
0.75	0.866025	609.1216
0.75	0.866025	608.9024
0.75	0.866025	608.6814
0.75	0.866025	608.4585
0.75	0.866025	608.2337
0.75	0.866025	608.0071
0.75	0.866025	607.7787
0.75	0.866025	607.5484
0.75	0.866025	607.3162
0.75	0.866025	607.0822
0.75	0.866025	606.8464
0.75	0.866025	606.6087
0.75	0.866025	606.3691
0.75	0.866025	606.1277
0.75	0.866025	605.8845
0.75	0.866025	605.6394
0.75	0.866025	605.3925
0.75	0.866025	605.1437
0.75	0.866025	604.8931
0.75	0.866025	604.6406
0.75	0.866025	604.3863
0.75	0.866025	604.1302
0.75	0.866025	603.8722
0.75	0.866025	603.6124
0.75	0.866025	603.3507
0.75	0.866025	603.0872
0.75	0.866025	602.8219
0.75	0.866025	602.5547
0.75	0.866025	602.2857
0.75	0.866025	602.0148
0.75	0.866025	601.7422
0.75	0.866025	601.4676
0.75	0.866025	601.1913
0.75	0.866025	600.9131
0.75	0.866025	600.6331
0.75	0.866025	600.3513
0.75	0.866025	600.0676
0.75	0.866025	599.7821
0.75	0.866025	599.4948
0.75	0.866025	599.2057
0.75	0.866025	598.9147
0.75	0.866025	598.6219
0.75	0.866025	598.3273

sin θ	sin2 θ	cos2 θ	cos θ	角度 θ	sin θ × d	cos θ × x	y = sin θ × x + cos θ x d
0.9947	0.9894	0.0106	0.1028	84.10	497.4	20.6	517.9
0.9949	0.9898	0.0102	0.1011	84.20	497.4	20.2	517.7
0.9951	0.9901	0.0099	0.0993	84.30	497.5	19.9	517.4
0.9952	0.9905	0.0095	0.0976	84.40	497.6	19.5	517.1
0.9954	0.9908	0.0092	0.0958	84.50	497.7	19.2	516.9
0.9956	0.9911	0.0089	0.0941	84.60	497.8	18.8	516.6
0.9957	0.9915	0.0085	0.0924	84.70	497.9	18.5	516.3
0.9959	0.9918	0.0082	0.0906	84.80	497.9	18.1	516.1
0.9960	0.9921	0.0079	0.0889	84.90	498.0	17.8	515.8
0.9962	0.9924	0.0076	0.0872	85.00	498.1	17.4	515.5
0.9963	0.9927	0.0073	0.0854	85.10	498.2	17.1	515.3
0.9965	0.9930	0.0070	0.0837	85.20	498.2	16.7	515.0
0.9966	0.9933	0.0067	0.0819	85.30	498.3	16.4	514.7
0.9968	0.9936	0.0064	0.0802	85.40	498.4	16.0	514.4
0.9969	0.9938	0.0062	0.0785	85.50	498.5	15.7	514.2
0.9971	0.9941	0.0059	0.0767	85.60	498.5	15.3	513.9
0.9972	0.9944	0.0056	0.0750	85.70	498.6	15.0	513.6
0.9973	0.9946	0.0054	0.0732	85.80	498.7	14.6	513.3
0.9974	0.9949	0.0051	0.0715	85.90	498.7	14.3	513.0
0.9976	0.9951	0.0049	0.0698	86.00	498.8	14.0	512.7
0.9977	0.9954	0.0046	0.0680	86.10	498.8	13.6	512.4
0.9978	0.9956	0.0044	0.0663	86.20	498.9	13.3	512.2
0.9979	0.9958	0.0042	0.0645	86.30	499.0	12.9	511.9
0.9980	0.9961	0.0039	0.0628	86.40	499.0	12.6	511.6
0.9981	0.9963	0.0037	0.0610	86.50	499.1	12.2	511.3
0.9982	0.9965	0.0035	0.0593	86.60	499.1	11.9	511.0
0.9983	0.9967	0.0033	0.0576	86.70	499.2	11.5	510.7
0.9984	0.9969	0.0031	0.0558	86.80	499.2	11.2	510.4
0.9985	0.9971	0.0029	0.0541	86.90	499.3	10.8	510.1
0.9986	0.9973	0.0027	0.0523	87.00	499.3	10.5	509.8
0.9987	0.9974	0.0026	0.0506	87.10	499.4	10.1	509.5
0.9988	0.9976	0.0024	0.0488	87.20	499.4	9.8	509.2
0.9989	0.9978	0.0022	0.0471	87.30	499.4	9.4	508.9
0.9990	0.9979	0.0021	0.0454	87.40	499.5	9.1	508.6
0.9990	0.9981	0.0019	0.0436	87.50	499.5	8.7	508.2
0.9991	0.9982	0.0018	0.0419	87.60	499.6	8.4	507.9
0.9992	0.9984	0.0016	0.0401	87.70	499.6	8.0	507.6
0.9993	0.9985	0.0015	0.0384	87.80	499.6	7.7	507.3
0.9993	0.9987	0.0013	0.0366	87.90	499.7	7.3	507.0
0.9994	0.9988	0.0012	0.0349	88.00	499.7	7.0	506.7
0.9995	0.9989	0.0011	0.0332	88.10	499.7	6.6	506.4
0.9995	0.9990	0.0010	0.0314	88.20	499.8	6.3	506.0
0.9996	0.9991	0.0009	0.0297	88.30	499.8	5.9	505.7
0.9996	0.9992	0.0008	0.0279	88.40	499.8	5.6	505.4
0.9997	0.9993	0.0007	0.0262	88.50	499.8	5.2	505.1
0.9997	0.9994	0.0006	0.0244	88.60	499.9	4.9	504.7
0.9997	0.9995	0.0005	0.0227	88.70	499.9	4.5	504.4
0.9998	0.9996	0.0004	0.0209	88.80	499.9	4.2	504.1
0.9998	0.9996	0.0004	0.0192	88.90	499.9	3.8	503.7
0.9998	0.9997	0.0003	0.0175	89.00	499.9	3.5	503.4
0.9999	0.9998	0.0002	0.0157	89.10	499.9	3.1	503.1
0.9999	0.9998	0.0002	0.0140	89.20	500.0	2.8	502.7
0.9999	0.9999	0.0001	0.0122	89.30	500.0	2.4	502.4
0.9999	0.9999	0.0001	0.0105	89.40	500.0	2.1	502.1
1.0000	0.9999	0.0001	0.0087	89.50	500.0	1.7	501.7
1.0000	1.0000	0.0000	0.0070	89.60	500.0	1.4	501.4
1.0000	1.0000	0.0000	0.0052	89.70	500.0	1.0	501.0
1.0000	1.0000	0.0000	0.0035	89.80	500.0	0.7	500.7
1.0000	1.0000	0.0000	0.0017	89.90	500.0	0.3	500.3
1.0000	1.0000	0.0000	0.0000	90.00	500.0	0.0	500.0

cos2 θ	cos θ	L1
0.75	0.866025	598.0309
0.75	0.866025	597.7326
0.75	0.866025	597.4325
0.75	0.866025	597.1306
0.75	0.866025	596.8269
0.75	0.866025	596.5214
0.75	0.866025	596.214
0.75	0.866025	595.9048
0.75	0.866025	595.5938
0.75	0.866025	595.281
0.75	0.866025	594.9664
0.75	0.866025	594.65
0.75	0.866025	594.3318
0.75	0.866025	594.0117
0.75	0.866025	593.6898
0.75	0.866025	593.3662
0.75	0.866025	593.0407
0.75	0.866025	592.7134
0.75	0.866025	592.3843
0.75	0.866025	592.0534
0.75	0.866025	591.7207
0.75	0.866025	591.3862
0.75	0.866025	591.0499
0.75	0.866025	590.7118
0.75	0.866025	590.372
0.75	0.866025	590.0303
0.75	0.866025	589.6868
0.75	0.866025	589.3415
0.75	0.866025	588.9944
0.75	0.866025	588.6455
0.75	0.866025	588.2948
0.75	0.866025	587.9424
0.75	0.866025	587.5881
0.75	0.866025	587.2321
0.75	0.866025	586.8742
0.75	0.866025	586.5146
0.75	0.866025	586.1532
0.75	0.866025	585.79
0.75	0.866025	585.425
0.75	0.866025	585.0583
0.75	0.866025	584.6897
0.75	0.866025	584.3194
0.75	0.866025	583.9473
0.75	0.866025	583.5734
0.75	0.866025	583.1977
0.75	0.866025	582.8203
0.75	0.866025	582.4411
0.75	0.866025	582.0601
0.75	0.866025	581.6773
0.75	0.866025	581.2928
0.75	0.866025	580.9065
0.75	0.866025	580.5184
0.75	0.866025	580.1286
0.75	0.866025	579.737
0.75	0.866025	579.3436
0.75	0.866025	578.9485
0.75	0.866025	578.5515
0.75	0.866025	578.1529
0.75	0.866025	577.7525
0.75	0.866025	577.3503