

9. Tres circunferencias cuyos radios miden 115, 150 y 225 cm. son tangentes exteriormente entre sí. Encuentra los ángulos que forman cuando se unen los centros de dichas circunferencias.

10. Para calcular la anchura BC de una bahía se miden, desde un punto A, dos distancias, AB y AC, y el ángulo BAC.  $AB = 8$  km,  $AC = 9$  km y  $\angle BAC = 65^\circ 30'$ . ¿Cuál es el ancho de la bahía?

TABLA DE FUNCIONES TRIGONOMETRICAS

x	sen x	cos x	tan x	cot x	sec x	csc x	
0° 0'	.00000	1.0000	.00000		1.0000		90° 0'
10'	.00291	1.0000	.00291	343.77	1.0000	343.78	50'
20'	.00582	1.0000	.00582	171.88	1.0000	171.89	40'
30'	.00873	1.0000	.00873	114.59	1.0000	114.59	30'
40'	.01164	.9999	.01164	85.940	1.0001	85.946	20'
50'	.01454	.9999	.01455	68.750	1.0001	68.757	10'
1° 0'	.01745	.9998	.01746	57.290	1.0002	57.299	89° 0'
10'	.02036	.9998	.02036	49.104	1.0002	49.114	50'
20'	.02327	.9997	.02328	42.964	1.0003	42.976	40'
30'	.02618	.9997	.02619	38.188	1.0003	38.202	30'
40'	.02908	.9996	.02910	34.368	1.0004	34.382	20'
50'	.03199	.9995	.03201	31.242	1.0005	31.258	10'
2° 0'	.03490	.9995	.03492	28.6363	1.0006	28.654	88° 0'
10'	.03781	.9993	.03783	26.4316	1.0007	26.451	50'
20'	.04071	.9992	.04075	24.5418	1.0008	24.562	40'
30'	.04362	.9990	.04366	22.9038	1.0010	22.926	30'
40'	.04653	.9989	.04658	21.4704	1.0011	21.494	20'
50'	.04943	.9988	.04949	20.2056	1.0012	20.230	10'
3° 0'	.05234	.9986	.05241	19.0811	1.0014	19.107	87° 0'
10'	.05524	.9985	.05533	18.0750	1.0015	18.103	50'
20'	.05814	.9983	.05824	17.1693	1.0017	17.198	40'
30'	.06105	.9981	.06116	16.3499	1.0019	16.380	30'
40'	.06393	.9980	.06408	15.6048	1.0021	15.637	20'
50'	.06685	.9978	.06700	14.9244	1.0022	14.958	10'
4° 0'	.06976	.9976	.06993	14.3007	1.0024	14.336	86° 0'
10'	.07266	.9974	.07285	13.7267	1.0027	13.763	50'
20'	.07556	.9971	.07578	13.1969	1.0029	13.235	40'
30'	.07846	.9969	.07870	12.7062	1.0031	12.746	30'
40'	.08136	.9967	.08163	12.2505	1.0033	12.291	20'
50'	.08426	.9964	.08456	11.8262	1.0036	11.868	10'
5° 0'	.08716	.9962	.08749	11.4301	1.0038	11.474	85° 0'
10'	.09005	.9959	.09042	11.0594	1.0041	11.105	50'
20'	.09295	.9957	.09335	10.7119	1.0044	10.758	40'
30'	.09585	.9954	.09629	10.3854	1.0046	10.433	30'
40'	.09874	.9951	.09923	10.0780	1.0049	10.128	20'
50'	.10164	.9948	.10216	9.7882	1.0052	9.839	10'
	cos x	sen x	cot x	tan x	csc x	sec x	x



continuación...

x	sen x	cos x	tan x	cot x	sec x	csc x	
6° 0'	.1045	.9945	.10510	9.5144	1.0055	9.5668	84° 0'
10'	.1074	.9942	.10805	9.2553	1.0058	9.3092	50'
20'	.1103	.9939	.11099	9.0098	1.0061	9.0652	40'
30'	.1132	.9936	.11394	8.7769	1.0065	8.8337	30'
40'	.1161	.9932	.11688	8.5555	1.0068	8.6138	20'
50'	.1190	.9929	.11983	8.3450	1.0072	8.4647	10'
7° 0'	.1219	.9925	.12278	8.1443	1.0075	8.2055	83° 0'
10'	.1248	.9922	.12574	7.9530	1.0079	8.0157	50'
20'	.1276	.9918	.12869	7.7704	1.0083	7.8344	40'
30'	.1305	.9914	.13165	7.5958	1.0086	7.6613	30'
40'	.1334	.9911	.1346	7.4287	1.0090	7.4957	20'
50'	.1363	.9907	.1376	7.2687	1.0094	7.3372	10'
8° 0'	.1392	.9903	.1405	7.1154	1.0098	7.1853	82° 0'
10'	.1421	.9899	.1435	6.9682	1.0102	7.0396	50'
20'	.1449	.9894	.1465	6.8269	1.0107	6.8998	40'
30'	.1478	.9890	.1495	6.6912	1.0111	6.7655	30'
40'	.1507	.9886	.1524	6.5606	1.0116	6.6363	20'
50'	.1536	.9881	.1554	6.4348	1.0120	6.5121	10'
9° 0'	.1564	.9877	.1584	6.3138	1.0125	6.3925	81° 0'
10'	.1593	.9872	.1614	6.1970	1.0129	6.2772	50'
20'	.1622	.9868	.1644	6.0844	1.0134	6.1661	40'
30'	.1650	.9863	.1673	5.9758	1.0139	6.0589	30'
40'	.1679	.9858	.1703	5.8708	1.0144	5.9554	20'
50'	.1708	.9853	.1733	5.7694	1.0149	5.8554	10'
10° 0'	.1736	.9848	.1763	5.6713	1.0154	5.7588	80° 0'
10'	.1765	.9843	.1793	5.5764	1.0160	5.6653	50'
20'	.1794	.9838	.1823	5.4845	1.0165	5.5749	40'
30'	.1822	.9833	.1853	5.3955	1.0170	5.4874	30'
40'	.1851	.9827	.1883	5.3093	1.0176	5.4026	20'
50'	.1880	.9822	.1914	5.2257	1.0182	5.3205	10'
11° 0'	.1908	.9816	.1944	5.1446	1.0187	5.2408	79° 0'
10'	.1937	.9811	.1974	5.0658	1.0193	5.1636	50'
20'	.1965	.9805	.2004	4.9894	1.0199	5.0886	40'
30'	.1994	.9799	.2035	4.9152	1.0205	5.0159	30'
40'	.2022	.9793	.2065	4.8430	1.0211	4.9452	20'
50'	.2051	.9787	.2095	4.7729	1.0217	4.8765	10'
	cos x	sen x	cot x	tan x	csc x	sec x	x

continuación...

x	sen x	cos x	tan x	cot x	sec x	csc x	
12° 0'	.2079	.9781	.2126	4.7046	1.0223	4.8097	78° 0'
10'	.2108	.9775	.2156	4.6382	1.0230	4.7448	50'
20'	.2136	.9769	.2186	4.5736	1.0236	4.6817	40'
30'	.2164	.9763	.2217	4.5107	1.0243	4.6202	30'
40'	.2193	.9757	.2247	4.4494	1.0249	4.5604	20'
50'	.2221	.9750	.2278	4.3897	1.0256	4.5022	10'
13° 0'	.2250	.9744	.2309	4.3315	1.0263	4.4454	77° 0'
10'	.2278	.9737	.2339	4.2747	1.0270	4.3901	50'
20'	.2306	.9730	.2370	4.2193	1.0277	4.3362	40'
30'	.2334	.9724	.2401	4.1653	1.0284	4.2837	30'
40'	.2363	.9717	.2432	4.1126	1.0291	4.2324	20'
50'	.2391	.9710	.2462	4.0611	1.0299	4.1824	10'
14° 0'	.2419	.9703	.2493	4.0108	1.0306	4.1336	76° 0'
10'	.2447	.9696	.2524	3.9617	1.0314	4.0859	50'
20'	.2476	.9689	.2555	3.9136	1.0321	4.0394	40'
30'	.2504	.9681	.2586	3.8667	1.0329	3.9939	30'
40'	.2532	.9674	.2617	3.8208	1.0337	3.9495	20'
50'	.2560	.9667	.2648	3.7760	1.0345	3.9061	10'
15° 0'	.2588	.9659	.2679	3.7321	1.0353	3.8637	75° 0'
10'	.2616	.9652	.2711	3.6891	1.0361	3.8222	50'
20'	.2644	.9644	.2742	3.6470	1.0369	3.7817	40'
30'	.2672	.9636	.2773	3.6059	1.0377	3.7420	30'
40'	.2700	.9628	.2805	3.5656	1.0386	3.7032	20'
50'	.2728	.9621	.2836	3.5261	1.0394	3.6652	10'
16° 0'	.2756	.9613	.2867	3.4874	1.0403	3.6280	74° 0'
10'	.2784	.9605	.2899	3.4495	1.0412	3.5915	50'
20'	.2812	.9596	.2931	3.4124	1.0421	3.5559	40'
30'	.2840	.9588	.2962	3.3759	1.0430	3.5209	30'
40'	.2868	.9580	.2994	3.3402	1.0439	3.4867	20'
50'	.2896	.9572	.3026	3.3052	1.0448	3.4532	10'
17° 0'	.2924	.9563	.3057	3.2709	1.0457	3.4203	73° 0'
10'	.2952	.9555	.3089	3.2371	1.0466	3.3881	50'
20'	.2979	.9546	.3121	3.2041	1.0476	3.3565	40'
30'	.3007	.9537	.3153	3.1716	1.0485	3.3255	30'
40'	.3035	.9528	.3185	3.1397	1.0495	3.2951	20'
50'	.3062	.9520	.3217	3.1084	1.0505	3.2653	10'
	cos x	sen x	cot x	tan x	csc x	sec x	x



continuación...

x	sen x	cos x	tan x	cot x	sec x	csc x	
18° 0'	.3090	.9511	.3249	3.0777	1.0515	3.2361	72° 0'
10'	.3118	.9502	.3281	3.0475	1.0525	3.2074	50'
20'	.3145	.9492	.3314	3.0178	1.0535	3.1792	40'
30'	.3173	.9483	.3346	2.9887	1.0545	3.1516	30'
40'	.3201	.9474	.3378	2.9600	1.0555	3.1244	20'
50'	.3228	.9465	.3411	2.9319	1.0566	3.0977	10'
19° 0'	.3256	.9455	.3443	2.9042	1.0576	3.0716	71° 0'
10'	.3283	.9446	.3476	2.8770	1.0587	3.0458	50'
20'	.3311	.9436	.3508	2.8502	1.0598	3.0206	40'
30'	.3338	.9426	.3541	2.8239	1.0609	2.9957	30'
40'	.3365	.9417	.3574	2.7980	1.0620	2.9714	20'
50'	.3393	.9407	.3607	2.7725	1.0631	2.9474	10'
20° 0'	.3420	.9397	.3640	2.7475	1.0642	2.9238	70° 0'
10'	.3448	.9387	.3673	2.7228	1.0653	2.9006	50'
20'	.3475	.9377	.3706	2.6985	1.0665	2.8870	40'
30'	.3502	.9367	.3739	2.6746	1.0676	2.8555	30'
40'	.3529	.9356	.3772	2.6511	1.0688	2.8334	20'
50'	.3557	.9346	.3805	2.6279	1.0700	2.8118	10'
21° 0'	.3584	.9336	.3839	2.6051	1.0712	2.7904	69° 0'
10'	.3611	.9325	.3872	2.5826	1.0724	2.7695	50'
20'	.3638	.9315	.3906	2.5605	1.0736	2.7488	40'
30'	.3665	.9304	.3939	2.5386	1.0748	2.7285	30'
40'	.3692	.9293	.3973	2.5172	1.0760	2.7085	20'
50'	.3719	.9283	.4006	2.4960	1.0773	2.6888	10'
22° 0'	.3746	.9272	.4040	2.4751	1.0785	2.6695	68° 0'
10'	.3773	.9261	.4074	2.4545	1.0798	2.6504	50'
20'	.3800	.9250	.4108	2.4342	1.0811	2.6316	40'
30'	.3827	.9239	.4142	2.4142	1.0824	2.6131	30'
40'	.3854	.9228	.4176	2.3945	1.0837	2.5949	20'
50'	.3881	.9216	.4210	2.3750	1.0850	2.5770	10'
23° 0'	.3907	.9205	.4245	2.3559	1.0864	2.5593	67° 0'
10'	.3934	.9194	.4279	2.3369	1.0877	2.5419	50'
20'	.3961	.9182	.4314	2.3183	1.0891	2.5247	40'
30'	.3987	.9171	.4348	2.2998	1.0904	2.5078	30'
40'	.4014	.9159	.4383	2.2817	1.0918	2.4912	20'
50'	.4041	.9147	.4417	2.2637	1.0932	2.4748	10'
	cos x	sen x	cot x	tan x	csc x	sec x	x

continuación...

x	sen x	cos x	tan x	cot x	sec x	csc x	
24° 0'	.4067	.9135	.4452	2.2460	1.0946	2.4586	66° 0'
10'	.4094	.9124	.4487	2.2286	1.0961	2.4426	50'
20'	.4120	.9112	.4522	2.2113	1.0975	2.4269	40'
30'	.4147	.9100	.4557	2.1943	1.0990	2.4114	30'
40'	.4173	.9088	.4592	2.1775	1.1004	2.3961	20'
50'	.4200	.9075	.4628	2.1609	1.1019	2.3811	10'
25° 0'	.4226	.9063	.4663	2.1445	1.1034	2.3662	65° 0'
10'	.4253	.9051	.4699	2.1283	1.1049	2.3515	50'
20'	.4279	.9038	.4734	2.1123	1.1064	2.3371	40'
30'	.4305	.9026	.4770	2.0965	1.1079	2.3228	30'
40'	.4331	.9013	.4806	2.0809	1.1095	2.3088	20'
50'	.4358	.9001	.4841	2.0655	1.1110	2.2949	10'
26° 0'	.4384	.8988	.4877	2.0503	1.1126	2.2812	64° 0'
10'	.4410	.8975	.4913	2.0353	1.1142	2.2677	50'
20'	.4436	.8962	.4950	2.0204	1.1158	2.2543	40'
30'	.4462	.8949	.4986	2.0057	1.1174	2.2412	30'
40'	.4488	.8936	.5022	1.9912	1.1190	2.2282	20'
50'	.4514	.8923	.5059	1.9768	1.1207	2.2154	10'
27° 0'	.4540	.8910	.5095	1.9626	1.1223	2.2027	63° 0'
10'	.4566	.8897	.5132	1.9486	1.1240	2.1902	50'
20'	.4592	.8884	.5169	1.9347	1.1257	2.1779	40'
30'	.4617	.8870	.5206	1.9210	1.1274	2.1657	30'
40'	.4643	.8857	.5243	1.9074	1.1291	2.1537	20'
50'	.4669	.8843	.5280	1.8940	1.1308	2.1418	10'
28° 0'	.4695	.8829	.5317	1.8807	1.1326	2.1301	62° 0'
10'	.4720	.8816	.5354	1.8676	1.1343	2.1185	50'
20'	.4746	.8802	.5392	1.8546	1.1361	2.1070	40'
30'	.4772	.8788	.5430	1.8418	1.1379	2.0957	30'
40'	.4797	.8774	.5467	1.8291	1.1397	2.0846	20'
50'	.4823	.8760	.5505	1.8165	1.1415	2.0736	10'
29° 0'	.4848	.8746	.5543	1.8040	1.1434	2.0627	61° 0'
10'	.4874	.8732	.5581	1.7917	1.1452	2.0519	50'
20'	.4899	.8718	.5619	1.7796	1.1471	2.0413	40'
30'	.4924	.8704	.5658	1.7675	1.1490	2.0308	30'
40'	.4950	.8689	.5696	1.7556	1.1509	2.0204	20'
50'	.4975	.8675	.5735	1.7437	1.1528	2.0101	10'
	cos x	sen x	cot x	tan x	csc x	sec x	x



continuación...

x	sen x	cos x	tan x	cot x	sec x	csc x	
30° 0'	.5000	.8660	.5774	1.7321	1.1547	2.0000	60° 0'
10'	.5025	.8646	.5812	1.7205	1.1567	1.9900	50'
20'	.5050	.8631	.5851	1.7090	1.1586	1.9801	40'
30'	.5075	.8616	.5890	1.6977	1.1606	1.9703	30'
40'	.5100	.8601	.5930	1.6864	1.1626	1.9606	20'
50'	.5125	.8587	.5969	1.6753	1.1646	1.9511	10'
31° 0'	.5150	.8572	.6009	1.6643	1.1666	1.9416	59° 0'
10'	.5175	.8557	.6048	1.6534	1.1687	1.9323	50'
20'	.5200	.8542	.6088	1.6426	1.1708	1.9230	40'
30'	.5225	.8526	.6128	1.6319	1.1728	1.9139	30'
40'	.5250	.8511	.6168	1.6212	1.1749	1.9049	20'
50'	.5275	.8496	.6208	1.6107	1.1770	1.8959	10'
32° 0'	.5299	.8480	.6249	1.6003	1.1792	1.8871	58° 0'
10'	.5324	.8465	.6289	1.5900	1.1813	1.8783	50'
20'	.5348	.8450	.6330	1.5798	1.1835	1.8699	40'
30'	.5373	.8434	.6371	1.5697	1.1857	1.8612	30'
40'	.5398	.8418	.6412	1.5597	1.1879	1.8527	20'
50'	.5422	.8403	.6453	1.5497	1.1901	1.8444	10'
33° 0'	.5446	.8387	.6494	1.5399	1.1924	1.8361	57° 0'
10'	.5471	.8371	.6536	1.5301	1.1946	1.8279	50'
20'	.5495	.8355	.6577	1.5204	1.1969	1.8198	40'
30'	.5519	.8339	.6619	1.5108	1.1992	1.8118	30'
40'	.5544	.8323	.6661	1.5013	1.2015	1.8039	20'
50'	.5568	.8307	.6703	1.4919	1.2039	1.7960	10'
34° 0'	.5592	.8290	.6745	1.4826	1.2062	1.7883	56° 0'
10'	.5616	.8274	.6787	1.4733	1.2086	1.7806	50'
20'	.5640	.8258	.6830	1.4641	1.2110	1.7730	40'
30'	.5664	.8241	.6873	1.4550	1.2134	1.7655	30'
40'	.5688	.8225	.6916	1.4460	1.2158	1.7581	20'
50'	.5712	.8208	.6959	1.4370	1.2183	1.7507	10'
35° 0'	.5736	.8192	.7002	1.4281	1.2208	1.7435	55° 0'
10'	.5760	.8175	.7046	1.4193	1.2233	1.7362	50'
20'	.5783	.8158	.7089	1.4106	1.2258	1.7291	40'
30'	.5807	.8141	.7133	1.4019	1.2283	1.7221	30'
40'	.5831	.8124	.7177	1.3934	1.2309	1.7151	20'
50'	.5854	.8107	.7221	1.3848	1.2335	1.7082	10'
	cos x	sen x	cot x	tan x	csc x	sec x	x

continuación... de área bajo la curva normal

x	sen x	cos x	tan x	cot x	sec x	csc x	
36° 0'	.5878	.8090	.7265	1.3764	1.2361	1.7013	54° 0'
10'	.5901	.8073	.7310	1.3680	1.2387	1.6945	50'
20'	.5925	.8056	.7355	1.3597	1.2413	1.6878	40'
30'	.5948	.8039	.7400	1.3514	1.2440	1.6812	30'
40'	.5972	.8021	.7445	1.3432	1.2467	1.6746	20'
50'	.5995	.8004	.7490	1.3351	1.2494	1.6681	10'
37° 0'	.6018	.7986	.7536	1.3270	1.2521	1.6616	53° 0'
10'	.6041	.7969	.7581	1.3190	1.2549	1.6553	50'
20'	.6065	.7951	.7627	1.3111	1.2577	1.6489	40'
30'	.6088	.7934	.7673	1.3032	1.2605	1.6427	30'
40'	.6111	.7916	.7720	1.2954	1.2633	1.6365	20'
50'	.6134	.7898	.7766	1.2876	1.2662	1.6304	10'
38° 0'	.6157	.7880	.7813	1.2799	1.2690	1.6243	52° 0'
10'	.6180	.7862	.7860	1.2723	1.2719	1.6183	50'
20'	.6202	.7844	.7907	1.2647	1.2748	1.6123	40'
30'	.6225	.7826	.7954	1.2572	1.2779	1.6064	30'
40'	.6248	.7808	.8002	1.2497	1.2808	1.6005	20'
50'	.6271	.7790	.8050	1.2423	1.2837	1.5948	10'
39° 0'	.6293	.7771	.8098	1.2349	1.2868	1.5890	51° 0'
10'	.6316	.7753	.8146	1.2276	1.2898	1.5833	50'
20'	.6338	.7735	.8195	1.2203	1.2929	1.5777	40'
30'	.6361	.7716	.8243	1.2131	1.2960	1.5721	30'
40'	.6383	.7698	.8292	1.2059	1.2991	1.5666	20'
50'	.6406	.7679	.8342	1.1988	1.3022	1.5611	10'
40° 0'	.6428	.7660	.8391	1.1918	1.3054	1.5557	50° 0'
10'	.6450	.7642	.8441	1.1847	1.3086	1.5504	50'
20'	.6472	.7623	.8491	1.1778	1.3118	1.5450	40'
30'	.6494	.7604	.8541	1.1708	1.3151	1.5398	30'
40'	.6517	.7585	.8591	1.1640	1.3184	1.5346	20'
50'	.6539	.7566	.8642	1.1571	1.3217	1.5294	10'
41° 0'	.6561	.7547	.8693	1.1504	1.3250	1.5243	49° 0'
10'	.6583	.7528	.8744	1.1436	1.3284	1.5192	50'
20'	.6604	.7509	.8796	1.1369	1.3318	1.5142	40'
30'	.6626	.7490	.8847	1.1303	1.3352	1.5092	30'
40'	.6648	.7470	.8899	1.1237	1.3386	1.5042	20'
50'	.6670	.7451	.8952	1.1171	1.3421	1.4993	10'
	cos x	sen x	cot x	tan x	csc x	sec x	x



continuación...

x	sen x	cos x	tan x	cot x	sec x	csc x	
42° 0'	.6691	.7431	.9004	1.1106	1.3456	1.4945	48° 0'
10'	.6713	.7412	.9057	1.1041	1.3492	1.4897	50'
20'	.6734	.7392	.9110	1.0977	1.3527	1.4849	40'
30'	.6756	.7373	.9163	1.0913	1.3563	1.4802	30'
40'	.6777	.7353	.9217	1.0850	1.3600	1.4755	20'
50'	.6799	.7333	.9271	1.0786	1.3636	1.4709	10'
43° 0'	.6820	.7314	.9325	1.0724	1.3673	1.4663	47° 0'
10'	.6841	.7294	.9380	1.0661	1.3711	1.4617	50'
20'	.6862	.7274	.9435	1.0599	1.3748	1.4572	40'
30'	.6884	.7254	.9490	1.0538	1.3786	1.4527	30'
40'	.6905	.7234	.9545	1.0477	1.3824	1.4483	20'
50'	.6926	.7214	.9601	1.0416	1.3863	1.4439	10'
44° 0'	.6947	.7193	.9657	1.0355	1.3902	1.4396	46° 0'
10'	.6967	.7173	.9713	1.0295	1.3941	1.4352	50'
20'	.6988	.7153	.9770	1.0235	1.3980	1.4310	40'
30'	.7009	.7133	.9827	1.0176	1.4020	1.4267	30'
40'	.7030	.7112	.9884	1.0117	1.4061	1.4225	20'
50'	.7050	.7092	.9942	1.0058	1.4101	1.4184	10'
45° 0'	.7071	.7071	1.0000	1.0000	1.4142	1.4142	45° 0'
	cos x	sen x	cot x	tan x	csc x	sec x	x

Tabla A  
Proporciones de área bajo la curva normal

(A) z	(B) área entre la media y z	(C) área más allá de z	(A) z	(B) área entre la media y z	(C) área más allá de z	(A) z	(B) área entre la media y z	(C) área más allá de z
0.00	.0000	.5000	0.45	.1736	.3264	0.90	.3159	.1841
0.01	.0040	.4960	0.46	.1772	.3228	0.91	.3186	.1814
0.02	.0080	.4920	0.47	.1808	.3192	0.92	.3212	.1788
0.03	.0120	.4880	0.48	.1844	.3156	0.93	.3238	.1762
0.04	.0160	.4840	0.49	.1879	.3121	0.94	.3264	.1736
0.05	.0199	.4801	0.50	.1915	.3085	0.95	.3289	.1711
0.06	.0239	.4761	0.51	.1950	.3050	0.96	.3315	.1685
0.07	.0279	.4721	0.52	.1985	.3015	0.97	.3340	.1660
0.08	.0319	.4681	0.53	.2019	.2981	0.98	.3365	.1635
0.09	.0359	.4641	0.54	.2054	.2946	0.99	.3389	.1611
0.10	.0398	.4602	0.55	.2088	.2912	1.00	.3413	.1587
0.11	.0438	.4562	0.56	.2123	.2877	1.01	.3438	.1562
0.12	.0478	.4522	0.57	.2157	.2843	1.02	.3461	.1539
0.13	.0517	.4483	0.58	.2190	.2810	1.03	.3485	.1515
0.14	.0557	.4443	0.59	.2224	.2776	1.04	.3508	.1492
0.15	.0596	.4404	0.60	.2257	.2743	1.05	.3531	.1469
0.16	.0636	.4364	0.61	.2291	.2709	1.06	.3554	.1446
0.17	.0675	.4325	0.62	.2324	.2676	1.07	.3577	.1423
0.18	.0714	.4286	0.63	.2357	.2643	1.08	.3599	.1401
0.19	.0753	.4247	0.64	.2389	.2611	1.09	.3621	.1379
0.20	.0793	.4207	0.65	.2422	.2578	1.10	.3643	.1357
0.21	.0832	.4168	0.66	.2454	.2546	1.11	.3665	.1335
0.22	.0871	.4129	0.67	.2486	.2514	1.12	.3686	.1314
0.23	.0910	.4090	0.68	.2517	.2483	1.13	.3708	.1292
0.24	.0948	.4052	0.69	.2549	.2451	1.14	.3729	.1271
0.25	.0987	.4013	0.70	.2580	.2420	1.15	.3749	.1251
0.26	.1026	.3974	0.71	.2611	.2389	1.16	.3770	.1230
0.27	.1064	.3936	0.72	.2642	.2358	1.17	.3790	.1210
0.28	.1103	.3897	0.73	.2673	.2327	1.18	.3810	.1190
0.29	.1141	.3859	0.74	.2704	.2296	1.19	.3830	.1170
0.30	.1179	.3821	0.75	.2734	.2266	1.20	.3849	.1151
0.31	.1217	.3783	0.76	.2764	.2236	1.21	.3869	.1131
0.32	.1255	.3745	0.77	.2794	.2206	1.22	.3888	.1112
0.33	.1293	.3707	0.78	.2823	.2177	1.23	.3907	.1093
0.34	.1331	.3669	0.79	.2852	.2148	1.24	.3925	.1075
0.35	.1368	.3632	0.80	.2881	.2119	1.25	.3944	.1056
0.36	.1406	.3594	0.81	.2910	.2090	1.26	.3962	.1038
0.37	.1443	.3557	0.82	.2939	.2061	1.27	.3980	.1020
0.38	.1480	.3520	0.83	.2967	.2033	1.28	.3997	.1003
0.39	.1517	.3483	0.84	.2995	.2005	1.29	.4015	.0985
0.40	.1554	.3446	0.85	.3023	.1977	1.30	.4032	.0968
0.41	.1591	.3409	0.86	.3051	.1949	1.31	.4049	.0951
0.42	.1628	.3372	0.87	.3078	.1922	1.32	.4066	.0934
0.43	.1664	.3336	0.88	.3106	.1894	1.33	.4082	.0918
0.44	.1700	.3300	0.89	.3133	.1867	1.34	.4099	.0901