

LAMBDA CONTROLLER - LCA80, LCP80, LCA90, LCP90

Head:	Revision:
Document: 1002-0022-14	V8.1-0: Added LAMBDA 1.0 curve
Company: IMFsoft s.r.o.	V8.2-0: Added O2 1.0 curve
Author: Radek Taraba	V8.3-0: Added NERNST 450 curve (LSM 11)
Date: 10.02.2021	V8.4-0: New version of Lambda controller with Current output 4-20mA

ANALOG OUTPUT - CALCULATION FORMULAS

RANGE	LOG 2.5	NERNST 450	SENSE 1.5	LAMBDA 1.0	LINEAR 1.0	RANGE	O2 1.0	O2 4.0
0-5 [V]	Use Table	LSM11 = AO	Use Table	LAMBDA = AO	0,33xAO+0,66	0-5 [V]	O2 = 7x(AO-1)	O2 = 2x(AO-4)
0-10 [V]	Use Table	LSM11 = AO	Use Table	LAMBDA = AO	0,33xAO+0,66	0-10 [V]	O2 = 7x(AO-1)	O2 = 2x(AO-4)
0-20 [mA]	Use Table	LSM11 = AO	Use Table	LAMBDA = AO	0,33xAO+0,66	0-20 [mA]	O2 = 7x(AO-1)	O2 = 2x(AO-4)
4-20 [mA]	Use Table-4	LSM11 = AO-4	Use Table-4	LAMBDA = AO-4	0,33xAO-3,33	4-20 [mA]	O2 = 7x(AO-5)	O2 = 2x(AO-8)

ANALOG OUTPUT - EXAMPLES TABLE

LAMBDA OUTPUT RANGE	LOG 2.5 0-10 [V] 0-20 [mA]	NERNST 450 0-10 [V] 0-20 [mA]	SENSE 1.5 0-10 [V] 0-20 [mA]	LAMBDA 1.0 0-10 [V] 0-20 [mA]	LINEAR 1.0 0-10 [V] 0-20 [mA]	O2 [%] OUTPUT RANGE	O2 1.0 0-10 [V] 0-20 [mA]	O2 4.0 4-20 [mA]
FAILURE	0,1000	0,1000	0,100	0,100	0,100	FAILURE	0,100	0,100
0,7166	1,053	1,0000	0,000	0,717	0,150	-7,650	0,000	4,175
0,7174	1,058	0,9997	0,005	0,717	0,152	-7,619	0,000	4,191
0,7182	1,062	0,9994	0,010	0,718	0,155	-7,590	0,000	4,205
0,7190	1,067	0,9991	0,015	0,719	0,157	-7,561	0,000	4,220
0,7198	1,072	0,9988	0,020	0,720	0,159	-7,532	0,000	4,234
0,7205	1,076	0,9985	0,024	0,721	0,162	-7,503	0,000	4,249
0,7213	1,081	0,9982	0,029	0,721	0,164	-7,474	0,000	4,263
0,7220	1,085	0,9979	0,034	0,722	0,166	-7,445	0,000	4,278
0,7228	1,090	0,9976	0,039	0,723	0,168	-7,416	0,000	4,292
0,7235	1,094	0,9973	0,044	0,724	0,171	-7,387	0,000	4,307
0,7243	1,099	0,9970	0,049	0,724	0,173	-7,358	0,000	4,321
0,7250	1,103	0,9967	0,054	0,725	0,175	-7,329	0,000	4,336
0,7258	1,108	0,9964	0,059	0,726	0,177	-7,300	0,000	4,350
0,7265	1,112	0,9961	0,064	0,727	0,180	-7,271	0,000	4,365
0,7273	1,117	0,9958	0,068	0,727	0,182	-7,242	0,000	4,379
0,7280	1,121	0,9955	0,073	0,728	0,184	-7,213	0,000	4,394
0,7288	1,126	0,9952	0,078	0,729	0,186	-7,184	0,000	4,408
0,7295	1,130	0,9949	0,083	0,730	0,189	-7,155	0,000	4,423
0,7303	1,135	0,9946	0,088	0,730	0,191	-7,126	0,000	4,437
0,7310	1,139	0,9943	0,093	0,731	0,193	-7,097	0,000	4,452
0,7318	1,144	0,9940	0,098	0,732	0,195	-7,068	0,000	4,466
0,7325	1,148	0,9937	0,103	0,733	0,198	-7,039	0,000	4,481
0,7333	1,153	0,9934	0,108	0,733	0,200	-7,010	0,000	4,495
0,7340	1,157	0,9931	0,112	0,734	0,202	-6,981	0,003	4,510
0,7348	1,161	0,9928	0,117	0,735	0,204	-6,952	0,007	4,524
0,7355	1,166	0,9925	0,122	0,736	0,207	-6,923	0,011	4,539
0,7363	1,170	0,9922	0,127	0,736	0,209	-6,894	0,015	4,553
0,7370	1,175	0,9919	0,132	0,737	0,211	-6,865	0,019	4,568
0,7378	1,179	0,9916	0,137	0,738	0,213	-6,836	0,023	4,582
0,7385	1,184	0,9913	0,142	0,739	0,216	-6,807	0,028	4,597
0,7393	1,188	0,9910	0,147	0,739	0,218	-6,778	0,032	4,611
0,7400	1,192	0,9907	0,152	0,740	0,220	-6,749	0,036	4,626
0,7408	1,197	0,9904	0,156	0,741	0,222	-6,720	0,040	4,640
0,7415	1,201	0,9901	0,161	0,742	0,225	-6,690	0,044	4,655
0,7423	1,206	0,9898	0,166	0,742	0,227	-6,665	0,049	4,672
0,7430	1,210	0,9895	0,171	0,743	0,229	-6,622	0,054	4,689
0,7438	1,214	0,9892	0,176	0,744	0,231	-6,588	0,059	4,706
0,7445	1,219	0,9889	0,181	0,745	0,234	-6,554	0,064	4,723
0,7453	1,223	0,9886	0,186	0,745	0,236	-6,520	0,069	4,740
0,7460	1,227	0,9883	0,191	0,746	0,238	-6,486	0,073	4,757
0,7468	1,232	0,9880	0,196	0,747	0,240	-6,452	0,078	4,774
0,7475	1,236	0,9877	0,200	0,748	0,243	-6,418	0,083	4,791
0,7483	1,240	0,9874	0,205	0,748	0,245	-6,384	0,088	4,808
0,7490	1,245	0,9871	0,210	0,749	0,247	-6,350	0,093	4,825
0,7498	1,249	0,9868	0,215	0,750	0,249	-6,329	0,096	4,836
0,7505	1,254	0,9865	0,220	0,751	0,252	-6,308	0,099	4,846
0,7513	1,258	0,9862	0,225	0,751	0,254	-6,287	0,102	4,857
0,7520	1,262	0,9859	0,230	0,752	0,256	-6,266	0,105	4,867
0,7528	1,267	0,9856	0,235	0,753	0,258	-6,245	0,108	4,878
0,7535	1,271	0,9853	0,239	0,754	0,261	-6,224	0,111	4,888
0,7543	1,275	0,9850	0,244	0,754	0,263	-6,203	0,114	4,899
0,7550	1,279	0,9847	0,249	0,755	0,265	-6,182	0,117	4,909
0,7558	1,284	0,9844	0,254	0,756	0,267	-6,161	0,120	4,920
0,7565	1,288	0,9841	0,259	0,757	0,270	-6,140	0,123	4,930
0,7573	1,292	0,9838	0,264	0,757	0,272	-6,119	0,126	4,941
0,7580	1,297	0,9835	0,269	0,758	0,274	-6,098	0,129	4,951
0,7588	1,301	0,9832	0,274	0,759	0,276	-6,077	0,132	4,962
0,7595	1,305	0,9829	0,279	0,760	0,279	-6,056	0,135	4,972
0,7603	1,310	0,9826	0,283	0,760	0,281	-6,035	0,138	4,983
0,7610	1,314	0,9823	0,288	0,761	0,283	-6,014	0,141	4,993
0,7618	1,318	0,9820	0,293	0,762	0,285	-5,993	0,144	5,004
0,7625	1,322	0,9817	0,298	0,763	0,288	-5,972	0,147	5,014

0,7633	1,327	0,9814	0,303	0,763	0,290	-5,951	0,150	5,025
0,7640	1,331	0,9811	0,308	0,764	0,292	-5,930	0,153	5,035
0,7648	1,335	0,9808	0,313	0,765	0,294	-5,909	0,156	5,046
0,7655	1,339	0,9805	0,318	0,766	0,297	-5,888	0,159	5,056
0,7663	1,344	0,9802	0,323	0,766	0,299	-5,867	0,162	5,067
0,7670	1,348	0,9799	0,327	0,767	0,301	-5,846	0,165	5,077
0,7678	1,352	0,9796	0,332	0,768	0,303	-5,825	0,168	5,088
0,7685	1,356	0,9793	0,337	0,769	0,306	-5,804	0,171	5,098
0,7693	1,361	0,9790	0,342	0,769	0,308	-5,780	0,174	5,110
0,7700	1,365	0,9787	0,347	0,770	0,310	-5,757	0,178	5,122
0,7708	1,369	0,9784	0,352	0,771	0,312	-5,734	0,181	5,133
0,7715	1,373	0,9781	0,357	0,772	0,315	-5,711	0,184	5,145
0,7723	1,378	0,9778	0,362	0,772	0,317	-5,688	0,187	5,156
0,7730	1,382	0,9775	0,367	0,773	0,319	-5,665	0,191	5,168
0,7738	1,386	0,9772	0,371	0,774	0,321	-5,641	0,194	5,179
0,7745	1,390	0,9769	0,376	0,775	0,324	-5,618	0,197	5,191
0,7753	1,394	0,9766	0,381	0,775	0,326	-5,595	0,201	5,202
0,7760	1,399	0,9763	0,386	0,776	0,328	-5,572	0,204	5,214
0,7768	1,403	0,9760	0,391	0,777	0,330	-5,549	0,207	5,226
0,7775	1,407	0,9757	0,396	0,778	0,333	-5,526	0,211	5,237
0,7783	1,411	0,9754	0,401	0,778	0,335	-5,503	0,214	5,249
0,7790	1,415	0,9751	0,406	0,779	0,337	-5,480	0,217	5,260
0,7798	1,420	0,9748	0,411	0,780	0,339	-5,457	0,220	5,272
0,7805	1,424	0,9745	0,415	0,781	0,342	-5,434	0,224	5,283
0,7813	1,428	0,9742	0,420	0,781	0,344	-5,410	0,227	5,295
0,7820	1,432	0,9739	0,425	0,782	0,346	-5,387	0,230	5,306
0,7828	1,436	0,9736	0,430	0,783	0,348	-5,364	0,234	5,318
0,7835	1,440	0,9733	0,435	0,784	0,351	-5,341	0,237	5,329
0,7843	1,445	0,9730	0,440	0,784	0,353	-5,318	0,240	5,341
0,7850	1,449	0,9727	0,445	0,785	0,355	-5,295	0,244	5,353
0,7858	1,453	0,9724	0,450	0,786	0,357	-5,272	0,247	5,364
0,7865	1,457	0,9721	0,455	0,787	0,360	-5,249	0,250	5,376
0,7873	1,461	0,9718	0,459	0,787	0,362	-5,226	0,253	5,387
0,7880	1,465	0,9715	0,464	0,788	0,364	-5,202	0,257	5,399
0,7888	1,469	0,9712	0,469	0,789	0,366	-5,179	0,260	5,410
0,7895	1,474	0,9709	0,474	0,790	0,369	-5,156	0,263	5,422
0,7903	1,478	0,9706	0,479	0,790	0,371	-5,133	0,267	5,433
0,7910	1,482	0,9703	0,484	0,791	0,373	-5,110	0,270	5,445
0,7918	1,486	0,9700	0,489	0,792	0,375	-5,087	0,273	5,457
0,7925	1,490	0,9697	0,494	0,793	0,378	-5,064	0,277	5,468
0,7933	1,494	0,9694	0,499	0,793	0,380	-5,041	0,280	5,480
0,7940	1,498	0,9691	0,503	0,794	0,382	-5,018	0,283	5,491
0,7948	1,502	0,9688	0,508	0,795	0,384	-4,995	0,286	5,503
0,7955	1,506	0,9685	0,513	0,796	0,387	-4,971	0,290	5,514
0,7963	1,510	0,9682	0,518	0,796	0,389	-4,948	0,293	5,526
0,7970	1,515	0,9679	0,523	0,797	0,391	-4,925	0,296	5,537
0,7978	1,519	0,9676	0,528	0,798	0,393	-4,902	0,300	5,549
0,7985	1,523	0,9673	0,533	0,799	0,396	-4,879	0,303	5,560
0,7993	1,527	0,9670	0,538	0,799	0,398	-4,856	0,306	5,572
0,8000	1,531	0,9667	0,543	0,800	0,400	-4,830	0,310	5,585
0,8009	1,536	0,9664	0,547	0,801	0,403	-4,806	0,313	5,597
0,8017	1,540	0,9661	0,552	0,802	0,405	-4,781	0,317	5,609
0,8026	1,545	0,9655	0,557	0,803	0,408	-4,757	0,320	5,622
0,8034	1,549	0,9649	0,562	0,803	0,410	-4,732	0,324	5,634
0,8043	1,554	0,9643	0,567	0,804	0,413	-4,708	0,327	5,646
0,8051	1,558	0,9637	0,572	0,805	0,415	-4,684	0,331	5,658
0,8060	1,563	0,9631	0,577	0,806	0,418	-4,659	0,334	5,670
0,8068	1,568	0,9625	0,582	0,807	0,420	-4,635	0,338	5,683
0,8077	1,572	0,9619	0,587	0,808	0,423	-4,610	0,341	5,695
0,8085	1,577	0,9613	0,591	0,809	0,426	-4,586	0,345	5,707
0,8094	1,581	0,9607	0,596	0,809	0,428	-4,562	0,348	5,719
0,8102	1,586	0,9601	0,601	0,810	0,431	-4,537	0,352	5,731
0,8111	1,590	0,9595	0,606	0,811	0,433	-4,513	0,355	5,744
0,8119	1,595	0,9589	0,611	0,812	0,436	-4,488	0,359	5,756
0,8128	1,600	0,9583	0,616	0,813	0,438	-4,464	0,362	5,768
0,8136	1,604	0,9577	0,621	0,814	0,441	-4,440	0,366	5,780
0,8145	1,609	0,9571	0,626	0,814	0,444	-4,415	0,369	5,792
0,8153	1,613	0,9565	0,630	0,815	0,446	-4,391	0,373	5,805
0,8162	1,618	0,9559	0,635	0,816	0,449	-4,366	0,376	5,817
0,8170	1,622	0,9553	0,640	0,817	0,451	-4,342	0,380	5,829
0,8178	1,626	0,9547	0,645	0,818	0,453	-4,318	0,383	5,841
0,8185	1,630	0,9541	0,650	0,819	0,456	-4,293	0,387	5,853
0,8193	1,634	0,9535	0,655	0,819	0,458	-4,269	0,390	5,866
0,8200	1,638	0,9529	0,660	0,820	0,460	-4,244	0,394	5,878
0,8209	1,643	0,9523	0,665	0,821	0,463	-4,220	0,397	5,890
0,8218	1,647	0,9517	0,670	0,822	0,465	-4,196	0,401	5,902
0,8226	1,652	0,9511	0,674	0,823	0,468	-4,171	0,404	5,914
0,8235	1,657	0,9505	0,679	0,824	0,471	-4,147	0,408	5,927
0,8244	1,661	0,9499	0,684	0,824	0,473	-4,122	0,411	5,939
0,8253	1,666	0,9493	0,689	0,825	0,476	-4,098	0,415	5,951
0,8261	1,670	0,9487	0,694	0,826	0,478	-4,074	0,418	5,963
0,8270	1,675	0,9481	0,699	0,827	0,481	-4,049	0,422	5,975
0,8279	1,680	0,9475	0,704	0,828	0,484	-4,025	0,425	5,988
0,8288	1,684	0,9469	0,709	0,829	0,486	-4,000	0,429	6,000
0,8296	1,689	0,9464	0,714	0,830	0,489	-3,976	0,432	6,012
0,8305	1,693	0,9452	0,718	0,831	0,492	-3,952	0,435	6,024
0,8314	1,698	0,9440	0,723	0,831	0,494	-3,927	0,439	6,036

0,8323	1,703	0,9428	0,728	0,832	0,497	-3,903	0,442	6,049
0,8331	1,707	0,9416	0,733	0,833	0,499	-3,880	0,446	6,060
0,8340	1,712	0,9404	0,738	0,834	0,502	-3,853	0,450	6,074
0,8349	1,716	0,9392	0,743	0,835	0,505	-3,825	0,454	6,087
0,8358	1,721	0,9380	0,748	0,836	0,507	-3,798	0,457	6,101
0,8366	1,725	0,9368	0,753	0,837	0,510	-3,771	0,461	6,115
0,8375	1,730	0,9356	0,758	0,838	0,513	-3,744	0,465	6,128
0,8384	1,734	0,9344	0,762	0,838	0,515	-3,716	0,469	6,142
0,8393	1,739	0,9332	0,767	0,839	0,518	-3,689	0,473	6,156
0,8401	1,743	0,9320	0,772	0,840	0,520	-3,662	0,477	6,169
0,8410	1,748	0,9308	0,777	0,841	0,523	-3,634	0,481	6,183
0,8419	1,752	0,9296	0,782	0,842	0,526	-3,607	0,485	6,197
0,8428	1,757	0,9284	0,787	0,843	0,528	-3,580	0,489	6,210
0,8436	1,761	0,9272	0,792	0,844	0,531	-3,552	0,493	6,224
0,8445	1,766	0,9260	0,797	0,845	0,534	-3,525	0,496	6,237
0,8454	1,770	0,9248	0,802	0,845	0,536	-3,498	0,500	6,251
0,8463	1,775	0,9236	0,806	0,846	0,539	-3,471	0,504	6,265
0,8471	1,779	0,9224	0,811	0,847	0,541	-3,443	0,508	6,278
0,8480	1,784	0,9212	0,816	0,848	0,544	-3,416	0,512	6,292
0,8489	1,789	0,9200	0,821	0,849	0,547	-3,389	0,516	6,306
0,8499	1,793	0,9188	0,826	0,850	0,550	-3,360	0,520	6,320
0,8508	1,798	0,9176	0,831	0,851	0,552	-3,340	0,523	6,330
0,8517	1,803	0,9164	0,836	0,852	0,555	-3,320	0,526	6,340
0,8526	1,808	0,9152	0,841	0,853	0,558	-3,300	0,529	6,350
0,8536	1,812	0,9140	0,846	0,854	0,561	-3,280	0,531	6,360
0,8545	1,817	0,9128	0,850	0,854	0,564	-3,260	0,534	6,370
0,8554	1,822	0,9116	0,855	0,855	0,566	-3,240	0,537	6,380
0,8563	1,826	0,9104	0,860	0,856	0,569	-3,220	0,540	6,390
0,8573	1,831	0,9092	0,865	0,857	0,572	-3,200	0,543	6,400
0,8582	1,836	0,9080	0,870	0,858	0,575	-3,180	0,546	6,410
0,8591	1,840	0,9068	0,875	0,859	0,577	-3,160	0,549	6,420
0,8600	1,845	0,9056	0,880	0,860	0,580	-3,140	0,551	6,430
0,8610	1,850	0,9044	0,885	0,861	0,583	-3,120	0,554	6,440
0,8619	1,854	0,9032	0,890	0,862	0,586	-3,100	0,557	6,450
0,8628	1,859	0,9020	0,894	0,863	0,588	-3,080	0,560	6,460
0,8637	1,864	0,9008	0,899	0,864	0,591	-3,060	0,563	6,470
0,8647	1,868	0,8996	0,904	0,865	0,594	-3,040	0,566	6,480
0,8656	1,873	0,8984	0,909	0,866	0,597	-3,020	0,569	6,490
0,8665	1,878	0,8972	0,914	0,867	0,600	-3,000	0,571	6,500
0,8674	1,882	0,8960	0,919	0,867	0,602	-2,980	0,574	6,510
0,8684	1,887	0,8948	0,924	0,868	0,605	-2,960	0,577	6,520
0,8693	1,892	0,8936	0,929	0,869	0,608	-2,940	0,580	6,530
0,8702	1,896	0,8924	0,934	0,870	0,611	-2,920	0,583	6,540
0,8711	1,901	0,8912	0,938	0,871	0,613	-2,890	0,587	6,555
0,8721	1,905	0,8900	0,943	0,872	0,616	-2,859	0,592	6,570
0,8730	1,910	0,8888	0,948	0,873	0,619	-2,829	0,596	6,585
0,8739	1,915	0,8876	0,953	0,874	0,622	-2,799	0,600	6,601
0,8748	1,919	0,8864	0,958	0,875	0,624	-2,769	0,605	6,616
0,8758	1,924	0,8852	0,963	0,876	0,627	-2,738	0,609	6,631
0,8767	1,928	0,8840	0,968	0,877	0,630	-2,708	0,613	6,646
0,8776	1,933	0,8828	0,973	0,878	0,633	-2,678	0,617	6,661
0,8785	1,938	0,8816	0,978	0,879	0,636	-2,647	0,622	6,676
0,8795	1,942	0,8804	0,982	0,879	0,639	-2,617	0,626	6,692
0,8804	1,947	0,8792	0,987	0,880	0,641	-2,587	0,630	6,707
0,8813	1,951	0,8780	0,992	0,881	0,644	-2,556	0,635	6,722
0,8822	1,956	0,8768	0,997	0,882	0,647	-2,526	0,639	6,737
0,8832	1,960	0,8756	1,002	0,883	0,650	-2,496	0,643	6,752
0,8841	1,965	0,8744	1,007	0,884	0,652	-2,466	0,648	6,767
0,8850	1,969	0,8732	1,012	0,885	0,655	-2,435	0,652	6,782
0,8859	1,974	0,8720	1,017	0,886	0,658	-2,405	0,656	6,798
0,8869	1,979	0,8708	1,022	0,887	0,661	-2,375	0,661	6,813
0,8878	1,983	0,8696	1,026	0,888	0,663	-2,344	0,665	6,828
0,8887	1,988	0,8684	1,031	0,889	0,666	-2,314	0,669	6,843
0,8896	1,992	0,8672	1,036	0,890	0,669	-2,284	0,674	6,858
0,8906	1,997	0,8660	1,041	0,891	0,672	-2,253	0,678	6,873
0,8915	2,001	0,8648	1,046	0,891	0,675	-2,223	0,682	6,888
0,8924	2,006	0,8636	1,051	0,892	0,677	-2,193	0,687	6,904
0,8933	2,010	0,8624	1,056	0,893	0,680	-2,163	0,691	6,919
0,8943	2,015	0,8612	1,061	0,894	0,683	-2,132	0,695	6,934
0,8952	2,019	0,8600	1,065	0,895	0,686	-2,102	0,700	6,949
0,8961	2,024	0,8588	1,070	0,896	0,688	-2,072	0,704	6,964
0,8971	2,028	0,8576	1,075	0,897	0,691	-2,041	0,708	6,979
0,8981	2,033	0,8564	1,080	0,898	0,694	-2,011	0,713	6,995
0,8990	2,038	0,8552	1,085	0,899	0,697	-1,981	0,717	7,010
0,9000	2,042	0,8540	1,090	0,900	0,700	-1,950	0,721	7,025
0,9011	2,047	0,8528	1,095	0,901	0,703	-1,930	0,724	7,035
0,9021	2,053	0,8516	1,100	0,902	0,706	-1,909	0,727	7,045
0,9032	2,058	0,8504	1,105	0,903	0,710	-1,889	0,730	7,056
0,9042	2,063	0,8492	1,109	0,904	0,713	-1,868	0,733	7,066
0,9053	2,068	0,8480	1,114	0,905	0,716	-1,848	0,736	7,076
0,9063	2,073	0,8468	1,119	0,906	0,719	-1,828	0,739	7,086
0,9074	2,078	0,8456	1,124	0,907	0,722	-1,807	0,742	7,096
0,9084	2,083	0,8444	1,129	0,908	0,725	-1,787	0,745	7,107
0,9095	2,088	0,8432	1,134	0,909	0,729	-1,766	0,748	7,117
0,9105	2,093	0,8420	1,139	0,911	0,732	-1,746	0,751	7,127
0,9116	2,098	0,8408	1,144	0,912	0,735	-1,726	0,753	7,137
0,9126	2,103	0,8396	1,149	0,913	0,738	-1,705	0,756	7,147

0,9137	2,108	0,8384	1,153	0,914	0,741	-1,685	0,759	7,158
0,9147	2,113	0,8372	1,158	0,915	0,744	-1,664	0,762	7,168
0,9158	2,118	0,8360	1,163	0,916	0,747	-1,644	0,765	7,178
0,9168	2,123	0,8348	1,168	0,917	0,750	-1,624	0,768	7,188
0,9179	2,128	0,8336	1,173	0,918	0,754	-1,603	0,771	7,198
0,9189	2,133	0,8324	1,178	0,919	0,757	-1,583	0,774	7,209
0,9200	2,138	0,8312	1,183	0,920	0,760	-1,562	0,777	7,219
0,9210	2,143	0,8300	1,188	0,921	0,763	-1,542	0,780	7,229
0,9221	2,148	0,8288	1,193	0,922	0,766	-1,522	0,783	7,239
0,9231	2,152	0,8276	1,197	0,923	0,769	-1,501	0,786	7,249
0,9242	2,157	0,8264	1,202	0,924	0,773	-1,481	0,788	7,260
0,9252	2,162	0,8252	1,207	0,925	0,776	-1,460	0,791	7,270
0,9263	2,167	0,8240	1,212	0,926	0,779	-1,440	0,794	7,280
0,9273	2,172	0,8228	1,217	0,927	0,782	-1,420	0,797	7,290
0,9284	2,177	0,8216	1,222	0,928	0,785	-1,399	0,800	7,300
0,9294	2,182	0,8204	1,227	0,929	0,788	-1,379	0,803	7,311
0,9305	2,187	0,8192	1,232	0,930	0,792	-1,358	0,806	7,321
0,9315	2,192	0,8180	1,237	0,932	0,795	-1,338	0,809	7,331
0,9326	2,197	0,8168	1,241	0,933	0,798	-1,318	0,812	7,341
0,9336	2,202	0,8156	1,246	0,934	0,801	-1,297	0,815	7,351
0,9347	2,206	0,8144	1,251	0,935	0,804	-1,277	0,818	7,362
0,9357	2,211	0,8132	1,256	0,936	0,807	-1,256	0,821	7,372
0,9368	2,216	0,8120	1,261	0,937	0,810	-1,236	0,823	7,382
0,9378	2,221	0,8108	1,266	0,938	0,813	-1,216	0,826	7,392
0,9389	2,226	0,8096	1,271	0,939	0,817	-1,195	0,829	7,402
0,9399	2,231	0,8078	1,276	0,940	0,820	-1,175	0,832	7,413
0,9410	2,236	0,8060	1,281	0,941	0,823	-1,154	0,835	7,423
0,9420	2,241	0,8040	1,285	0,942	0,826	-1,134	0,838	7,433
0,9431	2,245	0,8018	1,290	0,943	0,829	-1,114	0,841	7,443
0,9441	2,250	0,7994	1,295	0,944	0,832	-1,093	0,844	7,453
0,9452	2,255	0,7968	1,300	0,945	0,836	-1,073	0,847	7,464
0,9462	2,260	0,7940	1,305	0,946	0,839	-1,052	0,850	7,474
0,9472	2,264	0,7910	1,310	0,947	0,842	-1,032	0,853	7,484
0,9481	2,269	0,7878	1,315	0,948	0,844	-1,012	0,855	7,494
0,9491	2,273	0,7844	1,320	0,949	0,847	-0,991	0,858	7,504
0,9500	2,277	0,7808	1,325	0,950	0,850	-0,970	0,861	7,515
0,9511	2,282	0,7770	1,329	0,951	0,853	-0,943	0,865	7,528
0,9523	2,288	0,7730	1,334	0,952	0,857	-0,916	0,869	7,542
0,9534	2,293	0,7680	1,339	0,953	0,860	-0,889	0,873	7,555
0,9545	2,298	0,7650	1,344	0,955	0,864	-0,862	0,877	7,569
0,9556	2,303	0,7620	1,349	0,956	0,867	-0,836	0,881	7,582
0,9568	2,308	0,7590	1,354	0,957	0,870	-0,809	0,884	7,596
0,9579	2,313	0,7560	1,359	0,958	0,874	-0,782	0,888	7,609
0,9590	2,318	0,7530	1,364	0,959	0,877	-0,755	0,892	7,623
0,9601	2,323	0,7490	1,369	0,960	0,880	-0,728	0,896	7,636
0,9613	2,328	0,7440	1,373	0,961	0,884	-0,701	0,900	7,650
0,9624	2,333	0,7380	1,378	0,962	0,887	-0,674	0,904	7,663
0,9635	2,339	0,7310	1,383	0,964	0,891	-0,647	0,908	7,676
0,9646	2,344	0,7225	1,388	0,965	0,894	-0,620	0,911	7,690
0,9658	2,349	0,7130	1,393	0,966	0,897	-0,593	0,915	7,703
0,9669	2,354	0,7028	1,398	0,967	0,901	-0,567	0,919	7,717
0,9680	2,359	0,6920	1,403	0,968	0,904	-0,540	0,923	7,730
0,9698	2,367	0,6808	1,408	0,970	0,909	-0,513	0,927	7,744
0,9715	2,374	0,6692	1,413	0,972	0,915	-0,486	0,931	7,757
0,9733	2,382	0,6572	1,417	0,973	0,920	-0,459	0,934	7,771
0,9750	2,390	0,6448	1,422	0,975	0,925	-0,432	0,938	7,784
0,9768	2,398	0,6320	1,427	0,977	0,930	-0,405	0,942	7,797
0,9785	2,406	0,6188	1,432	0,979	0,936	-0,378	0,946	7,811
0,9803	2,413	0,6052	1,437	0,980	0,941	-0,351	0,950	7,824
0,9820	2,421	0,5916	1,442	0,982	0,946	-0,324	0,954	7,838
0,9838	2,429	0,5780	1,447	0,984	0,951	-0,298	0,958	7,851
0,9855	2,437	0,5644	1,452	0,986	0,957	-0,271	0,961	7,865
0,9873	2,444	0,5508	1,457	0,987	0,962	-0,244	0,965	7,878
0,9890	2,452	0,5372	1,461	0,989	0,967	-0,217	0,969	7,892
0,9908	2,460	0,5236	1,466	0,991	0,972	-0,190	0,973	7,905
0,9925	2,467	0,5100	1,471	0,993	0,978	-0,163	0,977	7,919
0,9943	2,475	0,4956	1,476	0,994	0,983	-0,136	0,981	7,932
0,9960	2,483	0,4820	1,481	0,996	0,988	-0,109	0,984	7,945
0,9970	2,487	0,4740	1,486	0,997	0,991	-0,082	0,988	7,959
0,9980	2,491	0,4660	1,491	0,998	0,994	-0,055	0,992	7,972
0,9990	2,496	0,4580	1,496	0,999	0,997	-0,029	0,996	7,986
1,0000	2,500	0,4500	1,500	1,000	1,000	0,000	1,000	8,000
1,0025	2,504	0,4300	1,505	1,003	1,008	0,040	1,006	8,020
1,0050	2,507	0,4100	1,510	1,005	1,015	0,080	1,011	8,040
1,0075	2,511	0,3900	1,515	1,008	1,023	0,120	1,017	8,060
1,0100	2,514	0,3700	1,520	1,010	1,030	0,160	1,023	8,080
1,0125	2,518	0,3500	1,525	1,013	1,038	0,200	1,029	8,100
1,0150	2,522	0,3300	1,530	1,015	1,045	0,240	1,034	8,120
1,0175	2,525	0,3100	1,535	1,018	1,053	0,280	1,040	8,140
1,0200	2,529	0,2900	1,540	1,020	1,060	0,320	1,046	8,160
1,0220	2,532	0,2720	1,544	1,022	1,066	0,360	1,051	8,180
1,0240	2,534	0,2550	1,549	1,024	1,072	0,400	1,057	8,200
1,0260	2,537	0,2390	1,554	1,026	1,078	0,440	1,063	8,220
1,0280	2,540	0,2240	1,559	1,028	1,084	0,480	1,069	8,240
1,0300	2,543	0,2100	1,564	1,030	1,090	0,520	1,074	8,260
1,0320	2,546	0,1970	1,569	1,032	1,096	0,560	1,080	8,280
1,0340	2,548	0,1850	1,574	1,034	1,102	0,600	1,086	8,300

1,0360	2,551	0,1740	1,579	1,036	1,108	0,640	1,091	8,320
1,0380	2,554	0,1640	1,584	1,038	1,114	0,680	1,097	8,340
1,0400	2,557	0,1550	1,588	1,040	1,120	0,720	1,103	8,360
1,0420	2,560	0,1470	1,593	1,042	1,126	0,760	1,109	8,380
1,0440	2,562	0,1400	1,598	1,044	1,132	0,800	1,114	8,400
1,0460	2,565	0,1340	1,603	1,046	1,138	0,840	1,120	8,420
1,0480	2,568	0,1290	1,608	1,048	1,144	0,880	1,126	8,440
1,0500	2,571	0,1250	1,613	1,050	1,150	0,920	1,131	8,460
1,0520	2,574	0,1220	1,618	1,052	1,156	0,960	1,137	8,480
1,0544	2,577	0,1200	1,623	1,054	1,163	1,000	1,143	8,500
1,0568	2,580	0,1185	1,628	1,057	1,170	1,040	1,149	8,520
1,0592	2,583	0,1170	1,632	1,059	1,178	1,080	1,154	8,540
1,0616	2,587	0,1155	1,637	1,062	1,185	1,120	1,160	8,560
1,0640	2,590	0,1140	1,642	1,064	1,192	1,160	1,166	8,580
1,0664	2,593	0,1124	1,647	1,066	1,199	1,200	1,171	8,600
1,0688	2,597	0,1108	1,652	1,069	1,206	1,240	1,177	8,620
1,0712	2,600	0,1092	1,657	1,071	1,214	1,280	1,183	8,640
1,0736	2,603	0,1076	1,662	1,074	1,221	1,320	1,189	8,660
1,0760	2,606	0,1060	1,667	1,076	1,228	1,360	1,194	8,680
1,0784	2,609	0,1044	1,672	1,078	1,235	1,400	1,200	8,700
1,0808	2,613	0,1028	1,676	1,081	1,242	1,440	1,206	8,720
1,0830	2,616	0,1012	1,681	1,083	1,249	1,480	1,211	8,740
1,0852	2,619	0,0996	1,686	1,085	1,256	1,520	1,217	8,760
1,0874	2,622	0,0980	1,691	1,087	1,262	1,560	1,223	8,780
1,0896	2,624	0,0964	1,696	1,090	1,269	1,600	1,229	8,800
1,0918	2,627	0,0948	1,701	1,092	1,275	1,640	1,234	8,820
1,0940	2,630	0,0932	1,706	1,094	1,282	1,680	1,240	8,840
1,0962	2,633	0,0916	1,711	1,096	1,289	1,720	1,246	8,860
1,0984	2,636	0,0900	1,716	1,098	1,295	1,760	1,251	8,880
1,1006	2,639	0,0884	1,720	1,101	1,302	1,800	1,257	8,900
1,1028	2,642	0,0868	1,725	1,103	1,308	1,840	1,263	8,920
1,1050	2,645	0,0852	1,730	1,105	1,315	1,880	1,269	8,940
1,1072	2,648	0,0836	1,735	1,107	1,322	1,920	1,274	8,960
1,1094	2,651	0,0820	1,740	1,109	1,328	1,960	1,280	8,980
1,1116	2,653	0,0804	1,745	1,112	1,335	2,000	1,286	9,000
1,1138	2,656	0,0788	1,750	1,114	1,341	2,040	1,291	9,020
1,1160	2,659	0,0772	1,755	1,116	1,348	2,080	1,297	9,040
1,1182	2,662	0,0756	1,760	1,118	1,355	2,120	1,303	9,060
1,1204	2,665	0,0740	1,764	1,120	1,361	2,160	1,309	9,080
1,1226	2,668	0,0724	1,769	1,123	1,368	2,200	1,314	9,100
1,1248	2,671	0,0708	1,774	1,125	1,374	2,240	1,320	9,120
1,1270	2,673	0,0692	1,779	1,127	1,381	2,280	1,326	9,140
1,1292	2,676	0,0676	1,784	1,129	1,388	2,320	1,331	9,160
1,1314	2,679	0,0660	1,789	1,131	1,394	2,360	1,337	9,180
1,1336	2,682	0,0644	1,794	1,134	1,401	2,400	1,343	9,200
1,1358	2,685	0,0628	1,799	1,136	1,407	2,440	1,349	9,220
1,1380	2,688	0,0612	1,804	1,138	1,414	2,480	1,354	9,240
1,1402	2,690	0,0596	1,808	1,140	1,421	2,520	1,360	9,260
1,1424	2,693	0,0580	1,813	1,142	1,427	2,560	1,366	9,280
1,1446	2,696	0,0564	1,818	1,145	1,434	2,600	1,371	9,300
1,1468	2,699	0,0548	1,823	1,147	1,440	2,640	1,377	9,320
1,1490	2,701	0,0532	1,828	1,149	1,447	2,680	1,383	9,340
1,1512	2,704	0,0516	1,833	1,151	1,454	2,720	1,389	9,360
1,1548	2,709	0,0500	1,838	1,155	1,464	2,760	1,394	9,380
1,1584	2,713	0,0484	1,843	1,158	1,475	2,800	1,400	9,400
1,1619	2,718	0,0468	1,848	1,162	1,486	2,840	1,406	9,420
1,1655	2,722	0,0452	1,852	1,166	1,497	2,880	1,411	9,440
1,1694	2,727	0,0436	1,857	1,169	1,508	2,920	1,417	9,460
1,1733	2,732	0,0420	1,862	1,173	1,520	2,960	1,423	9,480
1,1771	2,737	0,0404	1,867	1,177	1,531	3,000	1,429	9,500
1,1810	2,741	0,0390	1,872	1,181	1,543	3,045	1,435	9,523
1,1847	2,746	0,0370	1,877	1,185	1,554	3,090	1,441	9,545
1,1884	2,750	0,0350	1,882	1,188	1,565	3,137	1,448	9,569
1,1920	2,755	0,0330	1,887	1,192	1,576	3,184	1,455	9,592
1,1957	2,759	0,0320	1,891	1,196	1,587	3,231	1,462	9,616
1,1994	2,764	0,0310	1,896	1,199	1,598	3,279	1,468	9,640
1,2031	2,768	0,0302	1,901	1,203	1,609	3,327	1,475	9,664
1,2067	2,773	0,0298	1,906	1,207	1,620	3,375	1,482	9,688
1,2104	2,777	0,0294	1,911	1,210	1,631	3,424	1,489	9,712
1,2141	2,781	0,0290	1,916	1,214	1,642	3,473	1,496	9,737
1,2178	2,786	0,0286	1,921	1,218	1,653	3,522	1,503	9,761
1,2214	2,790	0,0282	1,926	1,221	1,664	3,573	1,510	9,787
1,2251	2,794	0,0278	1,931	1,225	1,675	3,624	1,518	9,812
1,2288	2,799	0,0274	1,935	1,229	1,686	3,675	1,525	9,838
1,2325	2,803	0,0270	1,940	1,232	1,698	3,726	1,532	9,863
1,2361	2,807	0,0266	1,945	1,236	1,708	3,777	1,540	9,889
1,2398	2,812	0,0262	1,950	1,240	1,719	3,828	1,547	9,914
1,2435	2,816	0,0258	1,955	1,243	1,731	3,879	1,554	9,940
1,2472	2,820	0,0254	1,960	1,247	1,742	3,935	1,562	9,968
1,2508	2,825	0,0250	1,965	1,251	1,752	3,981	1,569	9,991
1,2545	2,829	0,0246	1,970	1,255	1,764	4,027	1,575	10,014
1,2582	2,833	0,0243	1,975	1,258	1,775	4,073	1,582	10,037
1,2619	2,837	0,0240	1,979	1,262	1,786	4,120	1,589	10,060
1,2655	2,842	0,0237	1,984	1,266	1,797	4,166	1,595	10,083
1,2692	2,846	0,0234	1,989	1,269	1,808	4,212	1,602	10,106
1,2729	2,850	0,0231	1,994	1,273	1,819	4,259	1,608	10,129
1,2766	2,854	0,0228	1,999	1,277	1,830	4,305	1,615	10,152

1,2802	2,858	0,0225	2,004	1,280	1,841	4,351	1,622	10,176
1,2839	2,862	0,0222	2,009	1,284	1,852	4,397	1,628	10,199
1,2876	2,867	0,0219	2,014	1,288	1,863	4,444	1,635	10,222
1,2913	2,871	0,0216	2,019	1,291	1,874	4,490	1,641	10,245
1,2949	2,875	0,0213	2,023	1,295	1,885	4,536	1,648	10,268
1,2986	2,879	0,0210	2,028	1,299	1,896	4,583	1,655	10,291
1,3023	2,883	0,0207	2,033	1,302	1,907	4,629	1,661	10,314
1,3060	2,887	0,0204	2,038	1,306	1,918	4,675	1,668	10,338
1,3096	2,891	0,0201	2,043	1,310	1,929	4,721	1,675	10,361
1,3133	2,895	0,0198	2,048	1,313	1,940	4,768	1,681	10,384
1,3170	2,899	0,0195	2,053	1,317	1,951	4,814	1,688	10,407
1,3207	2,903	0,0192	2,058	1,321	1,962	4,860	1,694	10,430
1,3243	2,907	0,0189	2,063	1,324	1,973	4,907	1,701	10,453
1,3280	2,911	0,0186	2,067	1,328	1,984	4,953	1,708	10,477
1,3317	2,915	0,0183	2,072	1,332	1,995	5,000	1,714	10,500
1,3354	2,919	0,0180	2,077	1,335	2,006	5,040	1,720	10,520
1,3390	2,923	0,0177	2,082	1,339	2,017	5,078	1,725	10,539
1,3427	2,927	0,0175	2,087	1,343	2,028	5,116	1,731	10,558
1,3464	2,931	0,0173	2,092	1,346	2,039	5,154	1,736	10,577
1,3501	2,935	0,0171	2,097	1,350	2,050	5,192	1,742	10,596
1,3537	2,939	0,0169	2,102	1,354	2,061	5,230	1,747	10,615
1,3574	2,943	0,0167	2,107	1,357	2,072	5,268	1,753	10,634
1,3611	2,947	0,0165	2,111	1,361	2,083	5,306	1,758	10,653
1,3648	2,951	0,0163	2,116	1,365	2,094	5,344	1,763	10,672
1,3684	2,955	0,0161	2,121	1,368	2,105	5,382	1,769	10,691
1,3721	2,959	0,0159	2,126	1,372	2,116	5,420	1,774	10,710
1,3758	2,963	0,0157	2,131	1,376	2,127	5,458	1,780	10,729
1,3795	2,967	0,0156	2,136	1,379	2,139	5,496	1,785	10,748
1,3831	2,970	0,0155	2,141	1,383	2,149	5,534	1,791	10,767
1,3868	2,974	0,0154	2,146	1,387	2,160	5,572	1,796	10,786
1,3905	2,978	0,0153	2,151	1,390	2,172	5,610	1,801	10,805
1,3942	2,982	0,0152	2,155	1,394	2,183	5,648	1,807	10,824
1,3978	2,986	0,0151	2,160	1,398	2,193	5,686	1,812	10,843
1,4015	2,990	0,0150	2,165	1,402	2,205	5,724	1,818	10,862
1,4052	2,993	0,0149	2,170	1,405	2,216	5,762	1,823	10,881
1,4089	2,997	0,0148	2,175	1,409	2,227	5,800	1,829	10,900
1,4125	3,001	0,0147	2,180	1,413	2,238	5,838	1,834	10,919
1,4162	3,005	0,0146	2,185	1,416	2,249	5,876	1,839	10,938
1,4197	3,008	0,0145	2,190	1,420	2,259	5,914	1,845	10,957
1,4231	3,012	0,0144	2,195	1,423	2,269	5,952	1,850	10,976
1,4266	3,015	0,0143	2,199	1,427	2,280	5,990	1,856	10,995
1,4300	3,019	0,0142	2,204	1,430	2,290	6,028	1,861	11,014
1,4343	3,023	0,0141	2,209	1,434	2,303	6,066	1,867	11,033
1,4385	3,027	0,0140	2,214	1,439	2,316	6,105	1,872	11,053
1,4428	3,032	0,0139	2,219	1,443	2,328	6,144	1,878	11,072
1,4470	3,036	0,0138	2,224	1,447	2,341	6,183	1,883	11,092
1,4513	3,040	0,0137	2,229	1,451	2,354	6,222	1,889	11,111
1,4555	3,044	0,0136	2,234	1,456	2,367	6,261	1,894	11,131
1,4598	3,049	0,0135	2,239	1,460	2,379	6,300	1,900	11,150
1,4640	3,053	0,0134	2,243	1,464	2,392	6,339	1,906	11,170
1,4683	3,057	0,0133	2,248	1,468	2,405	6,378	1,911	11,189
1,4725	3,061	0,0132	2,253	1,473	2,418	6,417	1,917	11,209
1,4768	3,065	0,0131	2,258	1,477	2,430	6,456	1,922	11,228
1,4810	3,070	0,0130	2,263	1,481	2,443	6,495	1,928	11,248
1,4853	3,074	0,0129	2,268	1,485	2,456	6,534	1,933	11,267
1,4895	3,078	0,0128	2,273	1,490	2,469	6,573	1,939	11,287
1,4938	3,082	0,0127	2,278	1,494	2,481	6,612	1,945	11,306
1,4980	3,086	0,0126	2,283	1,498	2,494	6,651	1,950	11,326
1,5023	3,090	0,0125	2,287	1,502	2,507	6,690	1,956	11,345
1,5065	3,094	0,0124	2,292	1,507	2,520	6,729	1,961	11,365
1,5108	3,099	0,0123	2,297	1,511	2,532	6,768	1,967	11,384
1,5150	3,103	0,0122	2,302	1,515	2,545	6,807	1,972	11,404
1,5193	3,107	0,0121	2,307	1,519	2,558	6,846	1,978	11,423
1,5235	3,111	0,0120	2,312	1,524	2,571	6,885	1,984	11,443
1,5278	3,115	0,0119	2,317	1,528	2,583	6,924	1,989	11,462
1,5320	3,119	0,0118	2,322	1,532	2,596	6,963	1,995	11,482
1,5363	3,123	0,0117	2,326	1,536	2,609	7,000	2,000	11,500
1,5405	3,127	0,0116	2,331	1,541	2,622	7,040	2,006	11,520
1,5448	3,131	0,0115	2,336	1,545	2,634	7,080	2,011	11,540
1,5490	3,135	0,0114	2,341	1,549	2,647	7,115	2,016	11,558
1,5533	3,139	0,0113	2,346	1,553	2,660	7,150	2,021	11,575
1,5575	3,143	0,0112	2,351	1,558	2,673	7,185	2,026	11,593
1,5618	3,147	0,0111	2,356	1,562	2,685	7,220	2,031	11,610
1,5660	3,151	0,0110	2,361	1,566	2,698	7,255	2,036	11,628
1,5703	3,155	0,0109	2,366	1,570	2,711	7,290	2,041	11,645
1,5745	3,158	0,0108	2,370	1,575	2,724	7,325	2,046	11,663
1,5788	3,162	0,0107	2,375	1,579	2,736	7,360	2,051	11,680
1,5830	3,166	0,0106	2,380	1,583	2,749	7,395	2,056	11,698
1,5873	3,170	0,0105	2,385	1,587	2,762	7,430	2,061	11,715
1,5915	3,174	0,0104	2,390	1,592	2,775	7,465	2,066	11,733
1,5958	3,178	0,0103	2,395	1,596	2,787	7,500	2,071	11,750
1,6000	3,182	0,0102	2,400	1,600	2,800	7,535	2,076	11,768
1,6043	3,186	0,0101	2,405	1,604	2,813	7,570	2,081	11,785
1,6085	3,189	0,0100	2,410	1,609	2,826	7,605	2,086	11,803
1,6128	3,193	0,0099	2,414	1,613	2,838	7,640	2,091	11,820
1,6170	3,197	0,0098	2,419	1,617	2,851	7,675	2,096	11,838
1,6213	3,201	0,0097	2,424	1,621	2,864	7,710	2,101	11,855

1,6255	3,205	0,0096	2,429	1,626	2,877	7,745	2,106	11,873
1,6298	3,208	0,0095	2,434	1,630	2,889	7,780	2,111	11,890
1,6340	3,212	0,0094	2,439	1,634	2,902	7,815	2,116	11,908
1,6383	3,216	0,0093	2,444	1,638	2,915	7,850	2,121	11,925
1,6425	3,220	0,0092	2,449	1,643	2,928	7,885	2,126	11,943
1,6468	3,224	0,0091	2,454	1,647	2,940	7,920	2,131	11,960
1,6510	3,227	0,0090	2,458	1,651	2,953	7,955	2,136	11,978
1,6553	3,231	0,0089	2,463	1,655	2,966	7,990	2,141	11,995
1,6595	3,235	0,0088	2,468	1,660	2,979	8,025	2,146	12,013
1,6638	3,238	0,0087	2,473	1,664	2,991	8,060	2,151	12,030
1,6680	3,242	0,0086	2,478	1,668	3,004	8,095	2,156	12,048
1,6723	3,246	0,0085	2,483	1,672	3,017	8,150	2,164	12,075
1,6765	3,250	0,0084	2,488	1,677	3,030	8,191	2,170	12,096
1,6808	3,253	0,0083	2,493	1,681	3,042	8,233	2,176	12,116
1,6850	3,257	0,0082	2,498	1,685	3,055	8,274	2,182	12,137
1,6893	3,260	0,0081	2,502	1,689	3,068	8,315	2,188	12,158
1,6935	3,264	0,0080	2,507	1,694	3,081	8,357	2,194	12,178
1,6978	3,268	0,0079	2,512	1,698	3,093	8,398	2,200	12,199
1,7020	3,271	0,0078	2,517	1,702	3,106	8,439	2,206	12,220
1,7093	3,278	0,0077	2,522	1,709	3,128	8,480	2,211	12,240
1,7165	3,284	0,0076	2,527	1,717	3,150	8,522	2,217	12,261
1,7238	3,290	0,0075	2,532	1,724	3,171	8,563	2,223	12,282
1,7310	3,296	0,0074	2,537	1,731	3,193	8,604	2,229	12,302
1,7383	3,302	0,0073	2,542	1,738	3,215	8,646	2,235	12,323
1,7455	3,308	0,0072	2,546	1,746	3,237	8,687	2,241	12,343
1,7528	3,314	0,0071	2,551	1,753	3,258	8,728	2,247	12,364
1,7600	3,320	0,0070	2,556	1,760	3,280	8,770	2,253	12,385
1,7673	3,326	0,0069	2,561	1,767	3,302	8,811	2,259	12,405
1,7745	3,332	0,0068	2,566	1,775	3,324	8,852	2,265	12,426
1,7818	3,338	0,0067	2,571	1,782	3,345	8,893	2,270	12,447
1,7890	3,344	0,0066	2,576	1,789	3,367	8,935	2,276	12,467
1,7963	3,350	0,0065	2,581	1,796	3,389	8,976	2,282	12,488
1,8035	3,355	0,0064	2,586	1,804	3,411	9,017	2,288	12,509
1,8108	3,361	0,0063	2,590	1,811	3,432	9,059	2,294	12,529
1,8180	3,367	0,0062	2,595	1,818	3,454	9,100	2,300	12,550
1,8253	3,373	0,0061	2,600	1,825	3,476	9,148	2,307	12,574
1,8325	3,379	0,0060	2,605	1,833	3,498	9,195	2,314	12,598
1,8398	3,384	0,0059	2,610	1,840	3,519	9,243	2,320	12,621
1,8470	3,390	0,0058	2,615	1,847	3,541	9,290	2,327	12,645
1,8543	3,396	0,0057	2,620	1,854	3,563	9,338	2,334	12,669
1,8615	3,401	0,0056	2,625	1,862	3,585	9,385	2,341	12,693
1,8688	3,407	0,0055	2,630	1,869	3,606	9,433	2,348	12,716
1,8760	3,413	0,0054	2,634	1,876	3,628	9,480	2,354	12,740
1,8833	3,418	0,0053	2,639	1,883	3,650	9,528	2,361	12,764
1,8905	3,424	0,0052	2,644	1,891	3,672	9,575	2,368	12,788
1,8978	3,429	0,0051	2,649	1,898	3,693	9,623	2,375	12,811
1,9050	3,435	0,0050	2,654	1,905	3,715	9,670	2,381	12,835
1,9123	3,440	0,0049	2,659	1,912	3,737	9,710	2,387	12,855
1,9195	3,446	0,0048	2,664	1,920	3,759	9,750	2,393	12,875
1,9268	3,451	0,0047	2,669	1,927	3,780	9,790	2,399	12,895
1,9340	3,457	0,0046	2,674	1,934	3,802	9,830	2,404	12,915
1,9413	3,462	0,0045	2,678	1,941	3,824	9,870	2,410	12,935
1,9485	3,468	0,0044	2,683	1,949	3,846	9,910	2,416	12,955
1,9558	3,473	0,0043	2,688	1,956	3,867	9,950	2,421	12,975
1,9630	3,478	0,0042	2,693	1,963	3,889	9,990	2,427	12,995
1,9714	3,485	0,0041	2,698	1,971	3,914	10,030	2,433	13,015
1,9798	3,491	0,0040	2,703	1,980	3,939	10,070	2,439	13,035
1,9881	3,497	0,0039	2,708	1,988	3,964	10,110	2,444	13,055
1,9965	3,503	0,0038	2,713	1,997	3,990	10,150	2,450	13,075
2,0049	3,509	0,0037	2,717	2,005	4,015	10,190	2,456	13,095
2,0133	3,515	0,0036	2,722	2,013	4,040	10,227	2,461	13,114
2,0216	3,521	0,0035	2,727	2,022	4,065	10,264	2,466	13,132
2,0300	3,527	0,0034	2,732	2,030	4,090	10,301	2,472	13,151
2,0384	3,533	0,0033	2,737	2,038	4,115	10,339	2,477	13,169
2,0468	3,539	0,0032	2,742	2,047	4,140	10,376	2,482	13,188
2,0551	3,545	0,0031	2,747	2,055	4,165	10,413	2,488	13,206
2,0635	3,551	0,0030	2,752	2,064	4,191	10,450	2,493	13,225
2,0719	3,557	0,0029	2,757	2,072	4,216	10,487	2,498	13,244
2,0803	3,563	0,0028	2,761	2,080	4,241	10,524	2,503	13,262
2,0886	3,568	0,0027	2,766	2,089	4,266	10,562	2,509	13,281
2,0970	3,574	0,0026	2,771	2,097	4,291	10,599	2,514	13,299
2,1054	3,580	0,0025	2,776	2,105	4,316	10,636	2,519	13,318
2,1138	3,586	0,0024	2,781	2,114	4,341	10,673	2,525	13,336
2,1221	3,591	0,0023	2,786	2,122	4,366	10,710	2,530	13,355
2,1305	3,597	0,0022	2,791	2,131	4,392	10,747	2,535	13,374
2,1389	3,603	0,0021	2,796	2,139	4,417	10,784	2,541	13,392
2,1473	3,608	0,0020	2,801	2,147	4,442	10,822	2,546	13,411
2,1556	3,614	0,0019	2,805	2,156	4,467	10,859	2,551	13,429
2,1640	3,620	0,0018	2,810	2,164	4,492	10,896	2,557	13,448
2,1724	3,625	0,0017	2,815	2,172	4,517	10,933	2,562	13,467
2,1808	3,631	0,0016	2,820	2,181	4,542	10,970	2,567	13,485
2,1891	3,637	0,0015	2,825	2,189	4,567	11,007	2,572	13,504
2,1975	3,642	0,0014	2,830	2,198	4,593	11,044	2,578	13,522
2,2059	3,648	0,0013	2,835	2,206	4,618	11,082	2,583	13,541
2,2143	3,653	0,0012	2,840	2,214	4,643	11,119	2,588	13,559
2,2226	3,659	0,0011	2,845	2,223	4,668	11,156	2,594	13,578
2,2310	3,664	0,0010	2,849	2,231	4,693	11,193	2,599	13,597

2,2394	3,669	0,0009	2,854	2,239	4,718	11,230	2,604	13,615
2,2478	3,675	0,0008	2,859	2,248	4,743	11,267	2,610	13,634
2,2561	3,680	0,0007	2,864	2,256	4,768	11,305	2,615	13,652
2,2645	3,686	0,0006	2,869	2,265	4,794	11,342	2,620	13,671
2,2729	3,691	0,0005	2,874	2,273	4,819	11,379	2,626	13,689
2,2813	3,696	0,0000	2,879	2,281	4,844	11,416	2,631	13,708
2,2896	3,702	0,0000	2,884	2,290	4,869	11,453	2,636	13,727
2,2980	3,707	0,0000	2,889	2,298	4,894	11,490	2,641	13,745
2,3064	3,712	0,0000	2,893	2,306	4,919	11,527	2,647	13,764
2,3148	3,717	0,0000	2,898	2,315	4,944	11,565	2,652	13,782
2,3231	3,723	0,0000	2,903	2,323	4,969	11,602	2,657	13,801
2,3315	3,728	0,0000	2,908	2,332	4,995	11,639	2,663	13,819
2,3399	3,733	0,0000	2,913	2,340	5,020	11,676	2,668	13,838
2,3483	3,738	0,0000	2,918	2,348	5,045	11,713	2,673	13,857
2,3566	3,743	0,0000	2,923	2,357	5,070	11,750	2,679	13,875
2,3650	3,749	0,0000	2,928	2,365	5,095	11,787	2,684	13,894
2,3734	3,754	0,0000	2,933	2,373	5,120	11,825	2,689	13,912
2,3818	3,759	0,0000	2,937	2,382	5,145	11,862	2,695	13,931
2,3901	3,764	0,0000	2,942	2,390	5,170	11,899	2,700	13,949
2,3985	3,769	0,0000	2,947	2,399	5,196	11,936	2,705	13,968
2,4069	3,774	0,0000	2,952	2,407	5,221	11,973	2,710	13,987
2,4153	3,779	0,0000	2,957	2,415	5,246	12,010	2,716	14,005
2,4236	3,784	0,0000	2,962	2,424	5,271	12,048	2,721	14,024
2,4320	3,789	0,0000	2,967	2,432	5,296	12,085	2,726	14,042
2,4465	3,798	0,0000	2,972	2,447	5,340	12,122	2,732	14,061
2,4610	3,806	0,0000	2,977	2,461	5,383	12,159	2,737	14,079
2,4755	3,815	0,0000	2,981	2,476	5,427	12,196	2,742	14,098
2,4900	3,823	0,0000	2,986	2,490	5,470	12,233	2,748	14,117
2,5045	3,832	0,0000	2,991	2,505	5,514	12,270	2,753	14,135
2,5190	3,840	0,0000	2,996	2,519	5,557	12,312	2,759	14,156
2,5335	3,848	0,0000	3,001	2,534	5,601	12,354	2,765	14,177
2,5480	3,857	0,0000	3,006	2,548	5,644	12,396	2,771	14,198
2,5625	3,865	0,0000	3,011	2,563	5,688	12,438	2,777	14,219
2,5770	3,873	0,0000	3,016	2,577	5,731	12,480	2,783	14,240
2,5915	3,881	0,0000	3,021	2,592	5,775	12,522	2,789	14,261
2,6060	3,889	0,0000	3,025	2,606	5,818	12,564	2,795	14,282
2,6205	3,897	0,0000	3,030	2,621	5,862	12,606	2,801	14,303
2,6350	3,905	0,0000	3,035	2,635	5,905	12,648	2,807	14,324
2,6495	3,913	0,0000	3,040	2,650	5,949	12,690	2,813	14,345
2,6640	3,921	0,0000	3,045	2,664	5,992	12,732	2,819	14,366
2,6785	3,929	0,0000	3,050	2,679	6,036	12,774	2,825	14,387
2,6930	3,937	0,0000	3,055	2,693	6,079	12,816	2,831	14,408
2,7075	3,945	0,0000	3,060	2,708	6,123	12,858	2,837	14,429
2,7220	3,953	0,0000	3,065	2,722	6,166	12,900	2,843	14,450
2,7365	3,960	0,0000	3,069	2,737	6,210	12,942	2,849	14,471
2,7510	3,968	0,0000	3,074	2,751	6,253	12,984	2,855	14,492
2,7655	3,976	0,0000	3,079	2,766	6,297	13,026	2,861	14,513
2,7800	3,983	0,0000	3,084	2,780	6,340	13,068	2,867	14,534
2,7945	3,991	0,0000	3,089	2,795	6,384	13,110	2,873	14,555
2,8090	3,998	0,0000	3,094	2,809	6,427	13,152	2,879	14,576
2,8235	4,006	0,0000	3,099	2,824	6,471	13,194	2,885	14,597
2,8380	4,013	0,0000	3,104	2,838	6,514	13,236	2,891	14,618
2,8525	4,020	0,0000	3,109	2,853	6,558	13,278	2,897	14,639
2,8670	4,028	0,0000	3,113	2,867	6,601	13,320	2,903	14,660
2,8815	4,035	0,0000	3,118	2,882	6,645	13,362	2,909	14,681
2,8960	4,042	0,0000	3,123	2,896	6,688	13,404	2,915	14,702
2,9105	4,050	0,0000	3,128	2,911	6,732	13,446	2,921	14,723
2,9250	4,057	0,0000	3,133	2,925	6,775	13,488	2,927	14,744
2,9395	4,064	0,0000	3,138	2,940	6,819	13,530	2,933	14,765
2,9540	4,071	0,0000	3,143	2,954	6,862	13,572	2,939	14,786
2,9685	4,078	0,0000	3,148	2,969	6,906	13,614	2,945	14,807
2,9830	4,085	0,0000	3,152	2,983	6,949	13,656	2,951	14,828
2,9975	4,092	0,0000	3,157	2,998	6,993	13,698	2,957	14,849
3,0120	4,099	0,0000	3,162	3,012	7,036	13,740	2,963	14,870
3,0265	4,106	0,0000	3,167	3,027	7,080	13,782	2,968	14,889
3,0410	4,113	0,0000	3,172	3,041	7,123	13,817	2,974	14,908
3,0555	4,120	0,0000	3,177	3,056	7,167	13,855	2,979	14,927
3,0700	4,127	0,0000	3,182	3,070	7,210	13,893	2,985	14,947
3,0845	4,134	0,0000	3,187	3,085	7,254	13,932	2,990	14,966
3,0990	4,141	0,0000	3,192	3,099	7,297	13,970	2,996	14,985
3,1135	4,147	0,0000	3,196	3,114	7,341	14,008	3,001	15,004
3,1280	4,154	0,0000	3,201	3,128	7,384	14,046	3,007	15,023
3,1425	4,161	0,0000	3,206	3,143	7,428	14,085	3,012	15,042
3,1570	4,168	0,0000	3,211	3,157	7,471	14,123	3,018	15,062
3,1715	4,174	0,0000	3,216	3,172	7,515	14,161	3,023	15,081
3,1860	4,181	0,0000	3,221	3,186	7,558	14,200	3,029	15,100
3,2005	4,187	0,0000	3,226	3,201	7,602	14,238	3,034	15,119
3,2150	4,194	0,0000	3,231	3,215	7,645	14,276	3,039	15,138
3,2295	4,201	0,0000	3,236	3,230	7,689	14,315	3,045	15,157
3,2440	4,207	0,0000	3,240	3,244	7,732	14,353	3,050	15,176
3,2585	4,213	0,0000	3,245	3,259	7,776	14,391	3,056	15,196
3,2730	4,220	0,0000	3,250	3,273	7,819	14,429	3,061	15,215
3,2875	4,226	0,0000	3,255	3,288	7,863	14,468	3,067	15,234
3,3020	4,233	0,0000	3,260	3,302	7,906	14,506	3,072	15,253
3,3165	4,239	0,0000	3,265	3,317	7,950	14,544	3,078	15,272
3,3310	4,245	0,0000	3,270	3,331	7,993	14,583	3,083	15,291
3,3455	4,252	0,0000	3,275	3,346	8,037	14,621	3,089	15,310

3,3600	4,258	0,0000	3,280	3,360	8,080	14,659	3,094	15,330
3,3900	4,271	0,0000	3,284	3,390	8,170	14,698	3,100	15,349
3,4200	4,284	0,0000	3,289	3,420	8,260	14,736	3,105	15,368
3,4500	4,296	0,0000	3,294	3,450	8,350	14,774	3,111	15,387
3,4800	4,309	0,0000	3,299	3,480	8,440	14,812	3,116	15,406
3,5100	4,321	0,0000	3,304	3,510	8,530	14,850	3,121	15,425
3,5400	4,334	0,0000	3,309	3,540	8,620	14,888	3,127	15,444
3,5700	4,346	0,0000	3,314	3,570	8,710	14,925	3,132	15,463
3,6000	4,358	0,0000	3,319	3,600	8,800	14,963	3,138	15,481
3,6300	4,370	0,0000	3,324	3,630	8,890	15,000	3,143	15,500
3,6600	4,382	0,0000	3,328	3,660	8,980	15,038	3,148	15,519
3,6900	4,394	0,0000	3,333	3,690	9,070	15,075	3,154	15,538
3,7200	4,406	0,0000	3,338	3,720	9,160	15,113	3,159	15,556
3,7500	4,417	0,0000	3,343	3,750	9,250	15,150	3,164	15,575
3,7800	4,429	0,0000	3,348	3,780	9,340	15,188	3,170	15,594
3,8100	4,440	0,0000	3,353	3,810	9,430	15,225	3,175	15,613
3,8400	4,452	0,0000	3,358	3,840	9,520	15,263	3,180	15,631
3,8700	4,463	0,0000	3,363	3,870	9,610	15,300	3,186	15,650
3,9000	4,474	0,0000	3,368	3,900	9,700	15,338	3,191	15,669
3,9300	4,485	0,0000	3,372	3,930	9,790	15,375	3,196	15,688
3,9600	4,496	0,0000	3,377	3,960	9,880	15,413	3,202	15,706
3,9900	4,507	0,0000	3,382	3,990	9,970	15,450	3,207	15,725
4,0200	4,518	0,0000	3,387	4,020	10,060	15,488	3,212	15,741
4,0500	4,529	0,0000	3,392	4,050	10,150	15,513	3,216	15,757
4,0800	4,540	0,0000	3,397	4,080	10,240	15,545	3,221	15,772
4,1100	4,550	0,0000	3,402	4,110	10,330	15,576	3,225	15,788
4,1400	4,561	0,0000	3,407	4,140	10,420	15,608	3,230	15,804
4,1700	4,571	0,0000	3,412	4,170	10,510	15,639	3,234	15,820
4,2000	4,582	0,0000	3,416	4,200	10,600	15,671	3,239	15,835
4,2300	4,592	0,0000	3,421	4,230	10,690	15,702	3,243	15,851
4,2600	4,602	0,0000	3,426	4,260	10,780	15,734	3,248	15,867
4,2900	4,612	0,0000	3,431	4,290	10,870	15,765	3,252	15,883
4,3200	4,623	0,0000	3,436	4,320	10,960	15,797	3,257	15,898
4,3500	4,633	0,0000	3,441	4,350	11,050	15,828	3,261	15,914
4,3800	4,643	0,0000	3,446	4,380	11,140	15,860	3,266	15,930
4,4100	4,652	0,0000	3,451	4,410	11,230	15,891	3,270	15,946
4,4400	4,662	0,0000	3,456	4,440	11,320	15,923	3,275	15,961
4,4700	4,672	0,0000	3,460	4,470	11,410	15,954	3,279	15,977
4,5000	4,682	0,0000	3,465	4,500	11,500	15,986	3,284	15,993
4,5300	4,691	0,0000	3,470	4,530	11,590	16,017	3,288	16,009
4,5600	4,701	0,0000	3,475	4,560	11,680	16,049	3,293	16,024
4,5900	4,710	0,0000	3,480	4,590	11,770	16,080	3,297	16,040
4,6200	4,720	0,0000	3,485	4,620	11,860	16,112	3,302	16,056
4,6500	4,729	0,0000	3,490	4,650	11,950	16,143	3,306	16,072
4,6800	4,739	0,0000	3,495	4,680	12,040	16,175	3,311	16,087
4,7100	4,748	0,0000	3,500	4,710	12,130	16,206	3,315	16,103
4,7400	4,757	0,0000	3,504	4,740	12,220	16,238	3,320	16,119
4,7700	4,766	0,0000	3,509	4,770	12,310	16,269	3,324	16,135
4,8000	4,775	0,0000	3,514	4,800	12,400	16,301	3,329	16,150
4,8300	4,784	0,0000	3,519	4,830	12,490	16,332	3,333	16,166
4,8600	4,793	0,0000	3,524	4,860	12,580	16,364	3,338	16,182
4,8900	4,802	0,0000	3,529	4,890	12,670	16,395	3,342	16,198
4,9200	4,811	0,0000	3,534	4,920	12,760	16,427	3,347	16,213
4,9500	4,820	0,0000	3,539	4,950	12,850	16,458	3,351	16,229
4,9800	4,829	0,0000	3,543	4,980	12,940	16,490	3,356	16,245
5,0100	4,837	0,0000	3,548	5,010	13,030	16,522	3,360	16,261
5,0400	4,846	0,0000	3,553	5,040	13,120	16,554	3,365	16,277
5,0700	4,855	0,0000	3,558	5,070	13,210	16,586	3,369	16,293
5,1000	4,863	0,0000	3,563	5,100	13,300	16,618	3,374	16,309
5,1300	4,872	0,0000	3,568	5,130	13,390	16,651	3,379	16,325
5,1600	4,880	0,0000	3,573	5,160	13,480	16,683	3,383	16,341
5,1900	4,889	0,0000	3,578	5,190	13,570	16,715	3,388	16,357
5,2200	4,897	0,0000	3,583	5,220	13,660	16,747	3,392	16,373
5,2500	4,905	0,0000	3,587	5,250	13,750	16,779	3,397	16,389
5,2800	4,914	0,0000	3,592	5,280	13,840	16,811	3,402	16,406
5,3100	4,922	0,0000	3,597	5,310	13,930	16,843	3,406	16,422
5,3400	4,930	0,0000	3,602	5,340	14,020	16,875	3,411	16,438
5,3700	4,938	0,0000	3,607	5,370	14,110	16,907	3,415	16,454
5,4000	4,946	0,0000	3,612	5,400	14,200	16,939	3,420	16,470
5,4650	4,964	0,0000	3,617	5,465	14,350	16,972	3,425	16,486
5,5300	4,981	0,0000	3,622	5,530	14,500	17,004	3,429	16,502
5,5950	4,998	0,0000	3,627	5,595	14,650	17,036	3,434	16,518
5,6600	5,014	0,0000	3,631	5,660	14,800	17,068	3,438	16,534
5,7250	5,031	0,0000	3,636	5,725	14,950	17,100	3,443	16,550
5,7900	5,047	0,0000	3,641	5,790	15,100	17,132	3,447	16,566
5,8550	5,064	0,0000	3,646	5,855	15,250	17,164	3,452	16,582
5,9200	5,080	0,0000	3,651	5,920	15,400	17,196	3,457	16,598
5,9850	5,095	0,0000	3,656	5,985	15,550	17,228	3,461	16,614
6,0500	5,111	0,0000	3,661	6,050	15,700	17,260	3,466	16,630
6,1150	5,127	0,0000	3,666	6,115	15,850	17,293	3,470	16,646
6,1800	5,142	0,0000	3,671	6,180	16,000	17,325	3,475	16,662
6,2450	5,157	0,0000	3,675	6,245	16,150	17,357	3,480	16,678
6,3100	5,172	0,0000	3,680	6,310	16,300	17,389	3,484	16,694
6,3750	5,187	0,0000	3,685	6,375	16,450	17,421	3,489	16,710
6,4400	5,202	0,0000	3,690	6,440	16,600	17,453	3,493	16,727
6,5050	5,216	0,0000	3,695	6,505	16,750	17,485	3,498	16,743
6,5700	5,231	0,0000	3,700	6,570	16,900	17,517	3,502	16,759

6,6350	5,245	0,0000	3,705	6,635	10,000	17,550	3,507	16,775
6,7000	5,259	0,0000	3,710	6,700	10,000	17,587	3,512	16,794
6,7650	5,273	0,0000	3,715	6,765	10,000	17,625	3,518	16,812
6,8300	5,287	0,0000	3,719	6,830	10,000	17,662	3,523	16,831
6,8950	5,301	0,0000	3,724	6,895	10,000	17,699	3,528	16,850
6,9600	5,314	0,0000	3,729	6,960	10,000	17,737	3,534	16,868
7,0250	5,328	0,0000	3,734	7,025	10,000	17,774	3,539	16,887
7,0900	5,341	0,0000	3,739	7,090	10,000	17,811	3,544	16,906
7,1550	5,354	0,0000	3,744	7,155	10,000	17,848	3,550	16,924
7,2200	5,368	0,0000	3,749	7,220	10,000	17,886	3,555	16,943
7,2900	5,382	0,0000	3,754	7,290	10,000	17,923	3,560	16,962
7,3600	5,395	0,0000	3,759	7,360	10,000	17,960	3,566	16,980
7,4300	5,409	0,0000	3,763	7,430	10,000	17,998	3,571	16,999
7,5000	5,423	0,0000	3,768	7,500	10,000	18,035	3,576	17,017
7,6250	5,447	0,0000	3,773	7,625	10,000	18,072	3,582	17,036
7,7500	5,470	0,0000	3,778	7,750	10,000	18,110	3,587	17,055
7,8750	5,493	0,0000	3,783	7,875	10,000	18,147	3,592	17,073
8,0000	5,516	0,0000	3,788	8,000	10,000	18,184	3,598	17,092
8,1250	5,539	0,0000	3,793	8,125	10,000	18,221	3,603	17,111
8,2500	5,561	0,0000	3,798	8,250	10,000	18,259	3,608	17,129
8,3750	5,583	0,0000	3,803	8,375	10,000	18,296	3,614	17,148
8,5000	5,604	0,0000	3,807	8,500	10,000	18,333	3,619	17,167
8,6250	5,625	0,0000	3,812	8,625	10,000	18,371	3,624	17,185
8,7500	5,646	0,0000	3,817	8,750	10,000	18,408	3,630	17,204
8,8750	5,667	0,0000	3,822	8,875	10,000	18,445	3,635	17,223
9,0000	5,687	0,0000	3,827	9,000	10,000	18,483	3,640	17,241
9,1250	5,707	0,0000	3,832	9,125	10,000	18,520	3,646	17,260
9,2500	5,727	0,0000	3,837	9,250	10,000	18,557	3,651	17,279
9,3750	5,746	0,0000	3,842	9,375	10,000	18,594	3,656	17,297
9,5000	5,766	0,0000	3,847	9,500	10,000	18,632	3,662	17,316
9,6250	5,785	0,0000	3,851	9,625	10,000	18,669	3,667	17,335
9,7500	5,803	0,0000	3,856	9,750	10,000	18,706	3,672	17,353
9,8750	5,822	0,0000	3,861	9,875	10,000	18,744	3,678	17,372
10,0000	5,840	0,0000	3,866	10,000	10,000	18,780	3,683	17,390
10,2500	5,876	0,0000	3,871	10,000	10,000	18,816	3,688	17,408
10,5000	5,911	0,0000	3,876	10,000	10,000	18,853	3,693	17,426
10,7500	5,945	0,0000	3,881	10,000	10,000	18,889	3,698	17,445
11,0000	5,978	0,0000	3,886	10,000	10,000	18,926	3,704	17,463
11,2500	6,011	0,0000	3,891	10,000	10,000	18,962	3,709	17,481
11,5000	6,043	0,0000	3,895	10,000	10,000	18,998	3,714	17,499
11,7500	6,074	0,0000	3,900	10,000	10,000	19,035	3,719	17,517
12,0000	6,104	0,0000	3,905	10,000	10,000	19,071	3,724	17,536
12,1250	6,119	0,0000	3,910	10,000	10,000	19,108	3,730	17,554
12,2500	6,134	0,0000	3,915	10,000	10,000	19,144	3,735	17,572
12,3750	6,149	0,0000	3,920	10,000	10,000	19,180	3,740	17,590
12,5000	6,164	0,0000	3,925	10,000	10,000	20,990	3,999	18,495