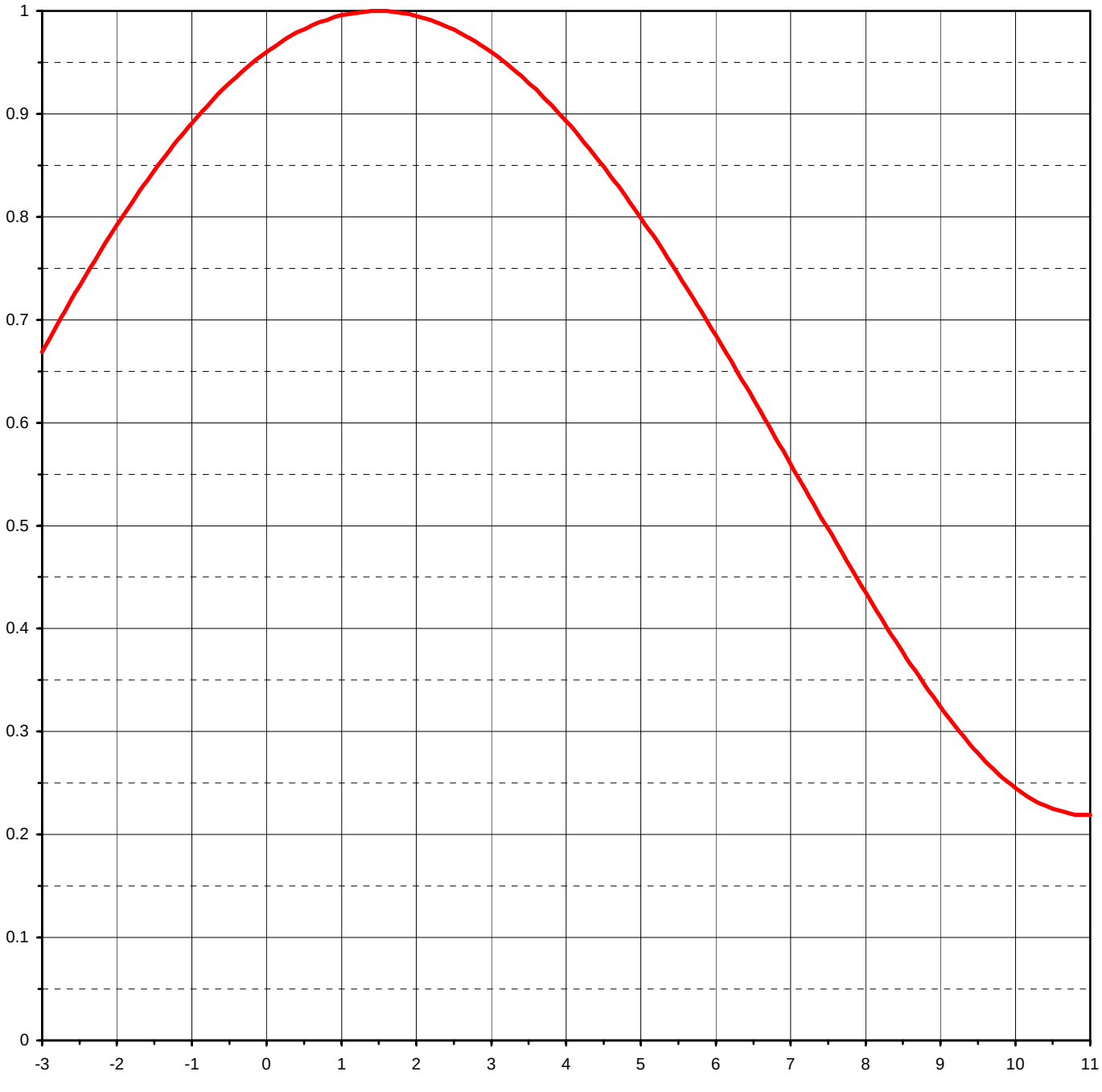
Dielectric

Proposal Number	**DCA-11353**	Revision:	**4**
Date	**17-May-07**		
Call Letters	**WNJB-DT**	Channel	**8**
Location	**New Brunswick, NJ**		
Customer	**NJPBA**		
Antenna Type	**TUV-32GTH/6HV-R O6/S190**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**6.00**	**(7.78 dB)**	
RMS Gain at Horizontal	**5.50**	**(7.40 dB)**	
Calculated / Measured	**Calculated**		

Beam Tilt	**1.50 deg**
Frequency	**183.00 MHz**
Drawing #	**06V060150**



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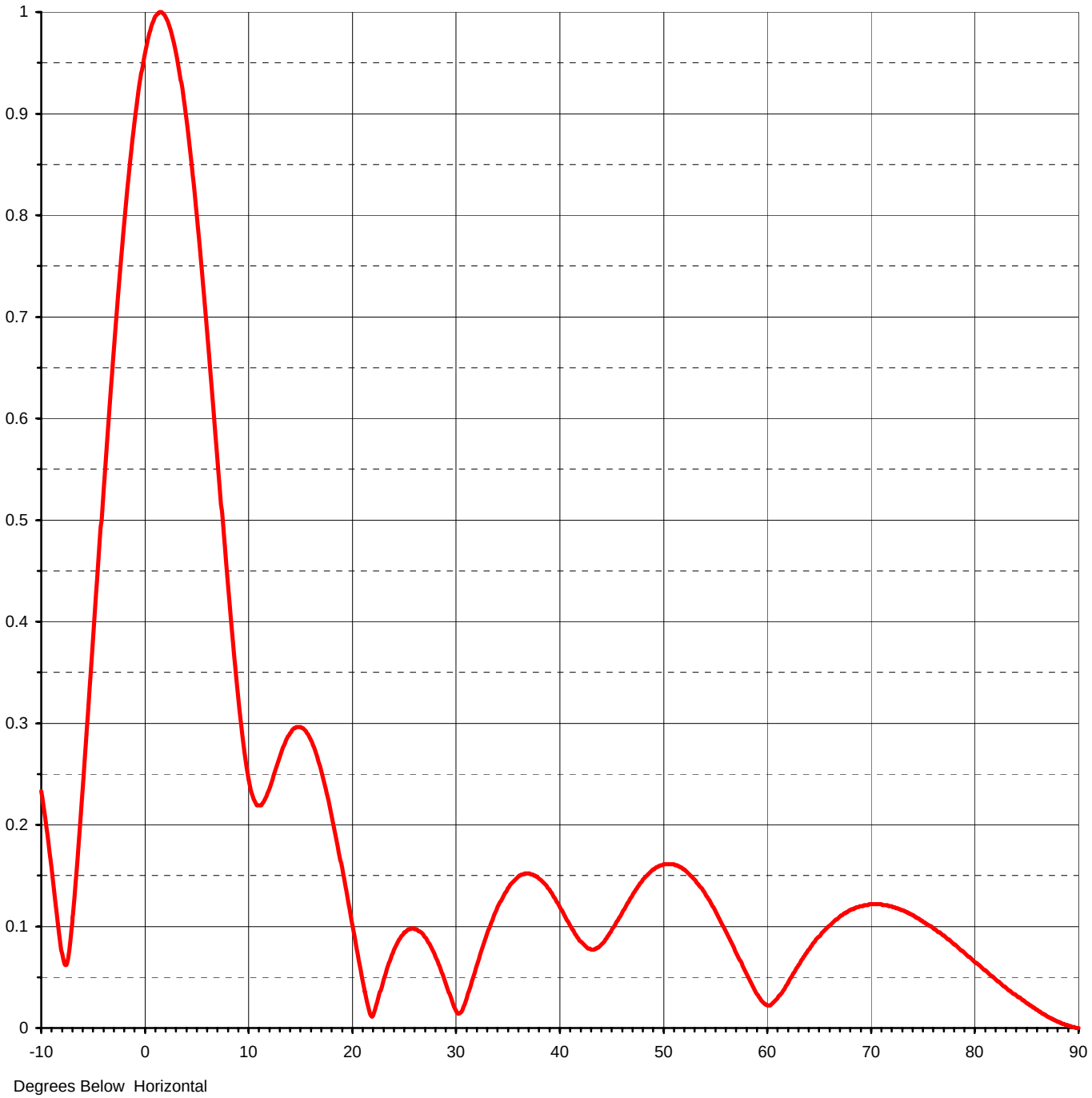
ELEVATION PATTERN

RMS Gain at Main Lobe	**6.00**	**(7.78 dB)**	
RMS Gain at Horizontal	**5.50**	**(7.40 dB)**	
Calculated / Measured	**Calculated**		

Beam Tilt	**1.50 deg**
Frequency	**183.00 MHz**
Drawing #	**06V060150-90**



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Antenna Type	**TUV-32GTH/6HV-R O6/S190**		

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **06V060150-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.233	2.4	0.985	10.6	0.225	30.5	0.015	51.0	0.161	71.5	0.121
-9.5	0.198	2.6	0.978	10.8	0.221	31.0	0.026	51.5	0.159	72.0	0.120
-9.0	0.158	2.8	0.970	11.0	0.219	31.5	0.042	52.0	0.156	72.5	0.118
-8.5	0.114	3.0	0.960	11.5	0.222	32.0	0.059	52.5	0.152	73.0	0.116
-8.0	0.073	3.2	0.949	12.0	0.233	32.5	0.075	53.0	0.147	73.5	0.114
-7.5	0.065	3.4	0.937	12.5	0.249	33.0	0.090	53.5	0.141	74.0	0.111
-7.0	0.106	3.6	0.924	13.0	0.264	33.5	0.104	54.0	0.134	74.5	0.108
-6.5	0.167	3.8	0.909	13.5	0.278	34.0	0.116	54.5	0.126	75.0	0.105
-6.0	0.236	4.0	0.893	14.0	0.288	34.5	0.127	55.0	0.117	75.5	0.102
-5.5	0.308	4.2	0.876	14.5	0.295	35.0	0.136	55.5	0.107	76.0	0.098
-5.0	0.382	4.4	0.858	15.0	0.296	35.5	0.143	56.0	0.097	76.5	0.094
-4.5	0.456	4.6	0.839	15.5	0.293	36.0	0.148	56.5	0.087	77.0	0.091
-4.0	0.530	4.8	0.820	16.0	0.285	36.5	0.151	57.0	0.076	77.5	0.087
-3.5	0.601	5.0	0.799	16.5	0.273	37.0	0.152	57.5	0.066	78.0	0.082
-3.0	0.669	5.2	0.778	17.0	0.257	37.5	0.151	58.0	0.055	78.5	0.078
-2.8	0.695	5.4	0.755	17.5	0.237	38.0	0.148	58.5	0.045	79.0	0.074
-2.6	0.721	5.6	0.732	18.0	0.214	38.5	0.143	59.0	0.035	79.5	0.070
-2.4	0.745	5.8	0.709	18.5	0.189	39.0	0.137	59.5	0.027	80.0	0.065
-2.2	0.769	6.0	0.685	19.0	0.162	39.5	0.129	60.0	0.023	80.5	0.061
-2.0	0.792	6.2	0.661	19.5	0.135	40.0	0.121	60.5	0.023	81.0	0.057
-1.8	0.814	6.4	0.636	20.0	0.106	40.5	0.112	61.0	0.028	81.5	0.052
-1.6	0.835	6.6	0.611	20.5	0.078	41.0	0.103	61.5	0.035	82.0	0.048
-1.4	0.855	6.8	0.585	21.0	0.051	41.5	0.094	62.0	0.043	82.5	0.044
-1.2	0.874	7.0	0.560	21.5	0.026	42.0	0.086	62.5	0.052	83.0	0.040
-1.0	0.891	7.2	0.535	22.0	0.011	42.5	0.081	63.0	0.060	83.5	0.036
-0.8	0.907	7.4	0.509	22.5	0.025	43.0	0.078	63.5	0.068	84.0	0.032
-0.6	0.923	7.6	0.484	23.0	0.044	43.5	0.078	64.0	0.076	84.5	0.028
-0.4	0.936	7.8	0.459	23.5	0.061	44.0	0.081	64.5	0.084	85.0	0.024
-0.2	0.949	8.0	0.435	24.0	0.074	44.5	0.087	65.0	0.090	85.5	0.021
0.0	0.960	8.2	0.411	24.5	0.085	45.0	0.094	65.5	0.096	86.0	0.018
0.2	0.970	8.4	0.388	25.0	0.092	45.5	0.103	66.0	0.101	86.5	0.014
0.4	0.979	8.6	0.365	25.5	0.097	46.0	0.112	66.5	0.106	87.0	0.011
0.6	0.986	8.8	0.344	26.0	0.098	46.5	0.121	67.0	0.110	87.5	0.009
0.8	0.991	9.0	0.324	26.5	0.095	47.0	0.129	67.5	0.113	88.0	0.006
1.0	0.996	9.2	0.305	27.0	0.090	47.5	0.137	68.0	0.116	88.5	0.004
1.2	0.998	9.4	0.287	27.5	0.083	48.0	0.144	68.5	0.118	89.0	0.002
1.4	1.000	9.6	0.271	28.0	0.073	48.5	0.150	69.0	0.120	89.5	0.001
1.6	1.000	9.8	0.264	28.5	0.061	49.0	0.155	69.5	0.121	90.0	0.000
1.8	0.998	10.0	0.251	29.0	0.047	49.5	0.158	70.0	0.122		
2.0	0.995	10.2	0.240	29.5	0.033	50.0	0.160	70.5	0.122		
2.2	0.991	10.4	0.231	30.0	0.019	50.5	0.161	71.0	0.122		

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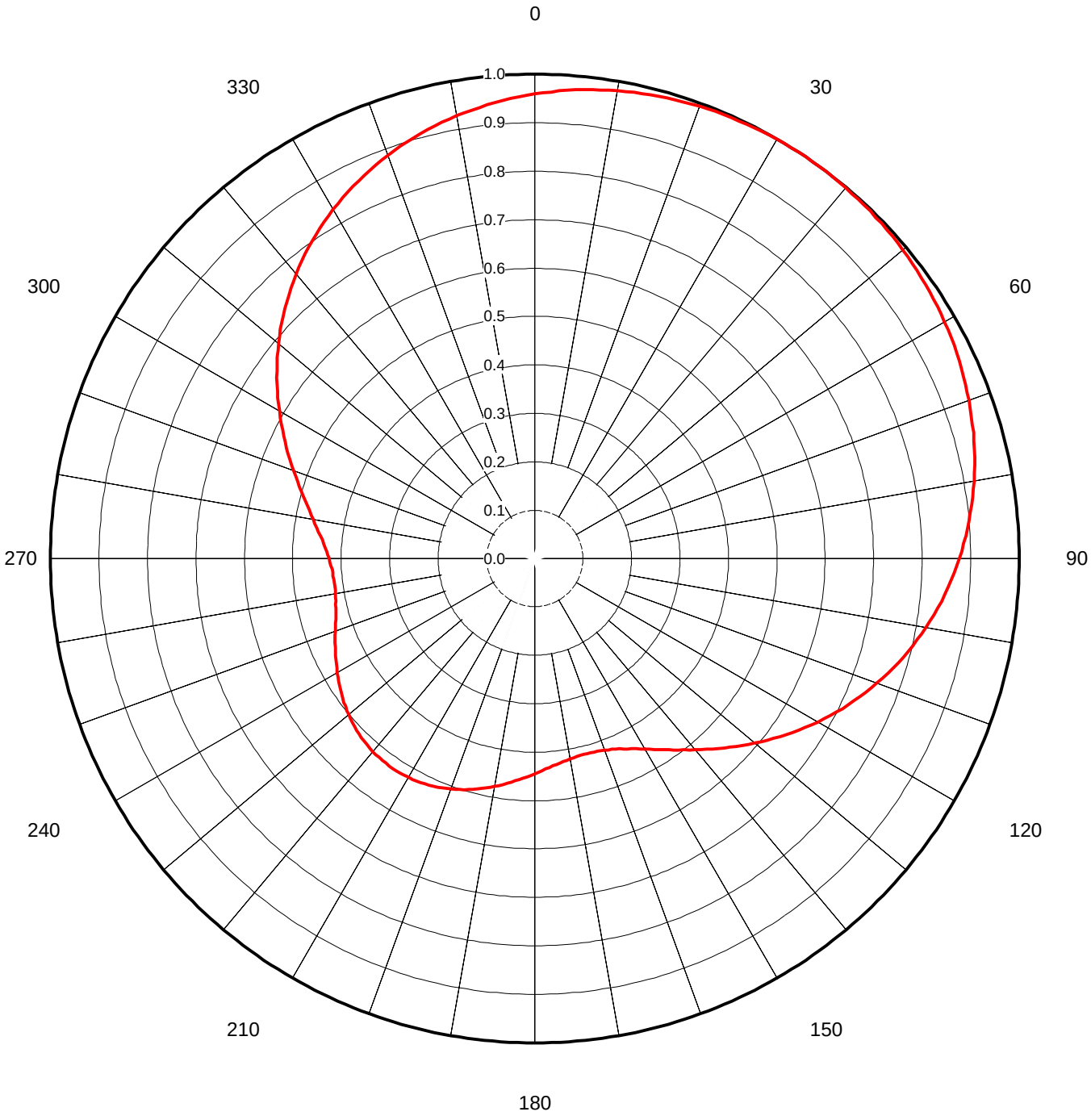
Antenna Type	**TUV-32GTH/6HV-R O6/S190**		

AZIMUTH PATTERN

Gain	**1.90**	**(2.79 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**183.00 MHz**		
Drawing #	**TUV-S190-1830**		



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Antenna Type	**TUV-32GTH/6HV-R O6/S190**		

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TUV-S190-1830**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.959	45	0.996	90	0.877	135	0.553	180	0.444	225	0.513	270	0.425	315	0.730
1	0.962	46	0.995	91	0.871	136	0.545	181	0.447	226	0.511	271	0.427	316	0.737
2	0.964	47	0.994	92	0.866	137	0.538	182	0.451	227	0.508	272	0.430	317	0.745
3	0.966	48	0.994	93	0.861	138	0.530	183	0.454	228	0.506	273	0.433	318	0.752
4	0.969	49	0.993	94	0.855	139	0.523	184	0.457	229	0.504	274	0.437	319	0.759
5	0.971	50	0.992	95	0.850	140	0.515	185	0.461	230	0.501	275	0.441	320	0.766
6	0.973	51	0.990	96	0.844	141	0.508	186	0.464	231	0.499	276	0.445	321	0.773
7	0.975	52	0.989	97	0.838	142	0.501	187	0.467	232	0.496	277	0.449	322	0.781
8	0.977	53	0.988	98	0.832	143	0.495	188	0.471	233	0.493	278	0.454	323	0.787
9	0.979	54	0.987	99	0.826	144	0.488	189	0.474	234	0.490	279	0.459	324	0.794
10	0.980	55	0.985	100	0.820	145	0.482	190	0.477	235	0.487	280	0.464	325	0.801
11	0.982	56	0.984	101	0.814	146	0.476	191	0.481	236	0.484	281	0.470	326	0.807
12	0.984	57	0.982	102	0.807	147	0.470	192	0.484	237	0.481	282	0.476	327	0.814
13	0.985	58	0.980	103	0.801	148	0.464	193	0.487	238	0.477	283	0.482	328	0.820
14	0.987	59	0.979	104	0.794	149	0.459	194	0.490	239	0.474	284	0.488	329	0.826
15	0.988	60	0.977	105	0.787	150	0.454	195	0.493	240	0.471	285	0.495	330	0.832
16	0.989	61	0.975	106	0.781	151	0.449	196	0.496	241	0.467	286	0.501	331	0.838
17	0.990	62	0.973	107	0.773	152	0.445	197	0.499	242	0.464	287	0.508	332	0.844
18	0.992	63	0.971	108	0.766	153	0.441	198	0.501	243	0.461	288	0.515	333	0.850
19	0.993	64	0.969	109	0.759	154	0.437	199	0.504	244	0.457	289	0.523	334	0.855
20	0.994	65	0.966	110	0.752	155	0.433	200	0.506	245	0.454	290	0.530	335	0.861
21	0.994	66	0.964	111	0.745	156	0.430	201	0.508	246	0.451	291	0.538	336	0.866
22	0.995	67	0.962	112	0.737	157	0.427	202	0.511	247	0.447	292	0.545	337	0.871
23	0.996	68	0.959	113	0.730	158	0.425	203	0.513	248	0.444	293	0.553	338	0.877
24	0.997	69	0.957	114	0.722	159	0.423	204	0.514	249	0.441	294	0.561	339	0.881
25	0.997	70	0.954	115	0.714	160	0.421	205	0.516	250	0.438	295	0.569	340	0.886
26	0.998	71	0.951	116	0.706	161	0.419	206	0.518	251	0.435	296	0.577	341	0.891
27	0.998	72	0.948	117	0.698	162	0.418	207	0.519	252	0.433	297	0.585	342	0.896
28	0.999	73	0.945	118	0.691	163	0.417	208	0.520	253	0.430	298	0.593	343	0.900
29	0.999	74	0.942	119	0.683	164	0.417	209	0.521	254	0.428	299	0.601	344	0.905
30	0.999	75	0.939	120	0.675	165	0.417	210	0.522	255	0.426	300	0.609	345	0.909
31	1.000	76	0.935	121	0.666	166	0.417	211	0.522	256	0.424	301	0.617	346	0.913
32	1.000	77	0.932	122	0.658	167	0.417	212	0.523	257	0.422	302	0.626	347	0.917
33	1.000	78	0.928	123	0.650	168	0.418	213	0.523	258	0.420	303	0.634	348	0.921
34	1.000	79	0.925	124	0.642	169	0.419	214	0.523	259	0.419	304	0.642	349	0.925
35	1.000	80	0.921	125	0.634	170	0.420	215	0.523	260	0.418	305	0.650	350	0.928
36	1.000	81	0.917	126	0.626	171	0.422	216	0.523	261	0.417	306	0.658	351	0.932
37	1.000	82	0.913	127	0.617	172	0.424	217	0.522	262	0.417	307	0.666	352	0.935
38	0.999	83	0.909	128	0.609	173	0.426	218	0.522	263	0.417	308	0.675	353	0.939
39	0.999	84	0.905	129	0.601	174	0.428	219	0.521	264	0.417	309	0.683	354	0.942
40	0.999	85	0.900	130	0.593	175	0.430	220	0.520	265	0.417	310	0.691	355	0.945
41	0.998	86	0.896	131	0.585	176	0.433	221	0.519	266	0.418	311	0.698	356	0.948
42	0.998	87	0.891	132	0.577	177	0.435	222	0.518	267	0.419	312	0.706	357	0.951
43	0.997	88	0.886	133	0.569	178	0.438	223	0.516	268	0.421	313	0.714	358	0.954
44	0.997	89	0.881	134	0.561	179	0.441	224	0.514	269	0.423	314	0.722	359	0.957