



Exhibit No.
24A

Date
Call Letters
Location
Customer
Antenna Type

01 Nov 2004
KLCS-DT
Los Angeles
Los Angeles Unified School District
TFU-16DSB-I

Channel 41

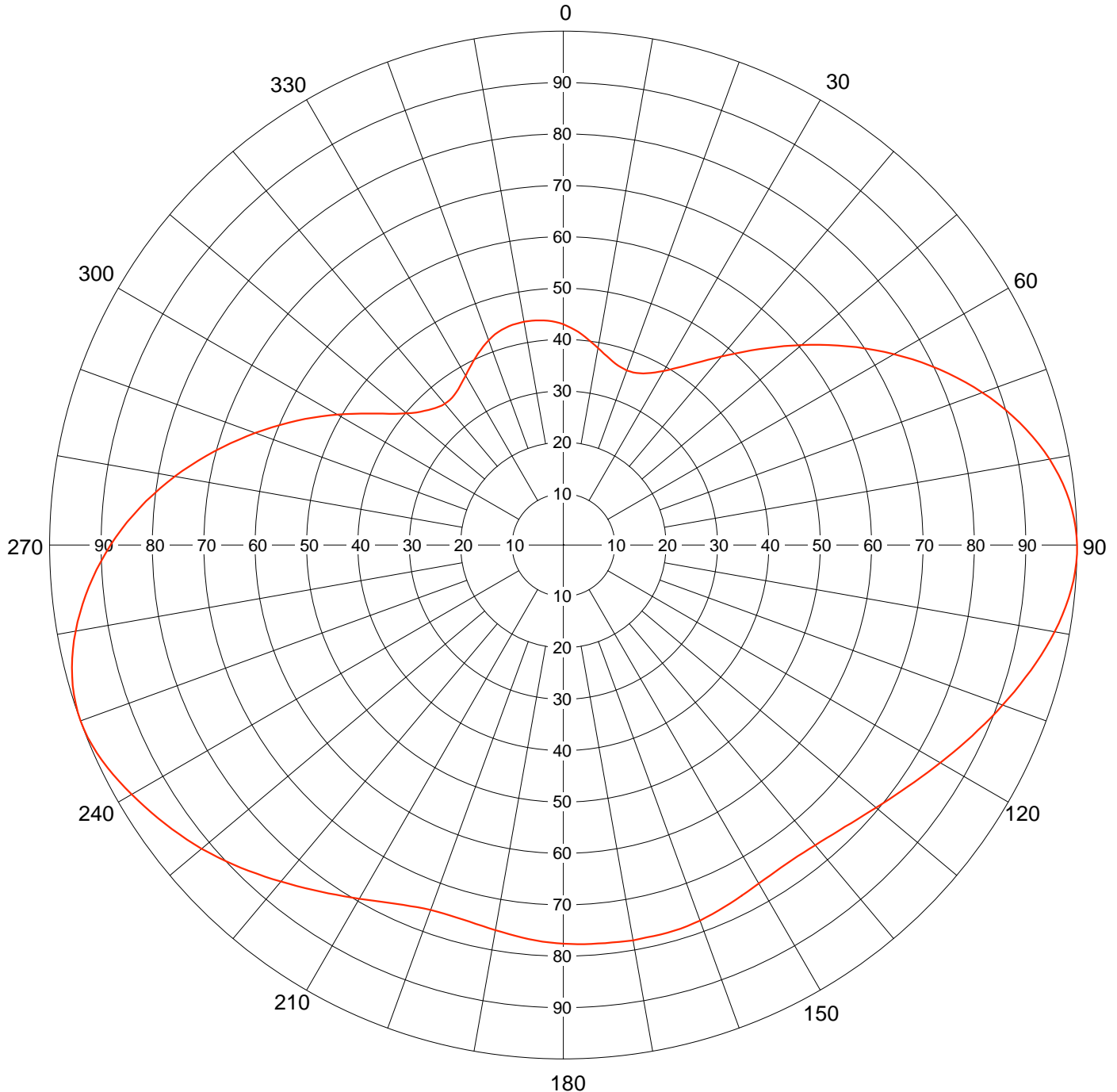
AZIMUTH PATTERN

Gain
Calculated / Measured

1.80 (2.55 dB)
Calculated

Frequency
Drawing #

635 MHz
DSB-I



Remarks:



Date **01 Nov 2004**
 Call Letters **KLCS-DT** Channel **41**
 Location **Los Angeles**
 Customer **Los Angeles Unified School District**
 Antenna Type **TFU-16DSB-I**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **DSB-I**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.429	45	0.539	90	1.000	135	0.776	180	0.776	225	0.888	270	0.881	315	0.372
1	0.426	46	0.552	91	1.000	136	0.772	181	0.775	226	0.894	271	0.871	316	0.368
2	0.423	47	0.565	92	0.999	137	0.770	182	0.774	227	0.901	272	0.861	317	0.365
3	0.420	48	0.578	93	0.998	138	0.767	183	0.773	228	0.907	273	0.850	318	0.362
4	0.416	49	0.592	94	0.995	139	0.765	184	0.771	229	0.913	274	0.839	319	0.360
5	0.411	50	0.605	95	0.993	140	0.763	185	0.770	230	0.919	275	0.828	320	0.359
6	0.407	51	0.619	96	0.989	141	0.761	186	0.768	231	0.925	276	0.817	321	0.358
7	0.403	52	0.633	97	0.985	142	0.759	187	0.766	232	0.930	277	0.805	322	0.358
8	0.398	53	0.647	98	0.981	143	0.758	188	0.765	233	0.936	278	0.793	323	0.359
9	0.394	54	0.661	99	0.976	144	0.758	189	0.763	234	0.941	279	0.781	324	0.361
10	0.389	55	0.675	100	0.971	145	0.757	190	0.761	235	0.946	280	0.768	325	0.363
11	0.385	56	0.688	101	0.966	146	0.757	191	0.759	236	0.951	281	0.755	326	0.366
12	0.381	57	0.702	102	0.960	147	0.758	192	0.758	237	0.956	282	0.743	327	0.369
13	0.377	58	0.716	103	0.954	148	0.758	193	0.756	238	0.961	283	0.730	328	0.373
14	0.373	59	0.729	104	0.948	149	0.759	194	0.755	239	0.966	284	0.717	329	0.376
15	0.370	60	0.743	105	0.942	150	0.761	195	0.754	240	0.970	285	0.704	330	0.381
16	0.367	61	0.756	106	0.936	151	0.762	196	0.754	241	0.975	286	0.691	331	0.385
17	0.365	62	0.769	107	0.929	152	0.764	197	0.754	242	0.979	287	0.677	332	0.390
18	0.363	63	0.783	108	0.923	153	0.766	198	0.754	243	0.984	288	0.664	333	0.394
19	0.362	64	0.795	109	0.917	154	0.767	199	0.755	244	0.988	289	0.651	334	0.399
20	0.362	65	0.808	110	0.910	155	0.769	200	0.756	245	0.991	290	0.638	335	0.403
21	0.362	66	0.821	111	0.904	156	0.771	201	0.758	246	0.994	291	0.625	336	0.408
22	0.362	67	0.833	112	0.897	157	0.773	202	0.760	247	0.997	292	0.612	337	0.412
23	0.364	68	0.845	113	0.891	158	0.775	203	0.763	248	0.998	293	0.599	338	0.417
24	0.366	69	0.856	114	0.885	159	0.776	204	0.766	249	1.000	294	0.585	339	0.420
25	0.368	70	0.868	115	0.878	160	0.778	205	0.770	250	1.000	295	0.572	340	0.424
26	0.372	71	0.879	116	0.872	161	0.779	206	0.775	251	0.999	296	0.559	341	0.428
27	0.376	72	0.890	117	0.866	162	0.780	207	0.779	252	0.998	297	0.546	342	0.431
28	0.380	73	0.900	118	0.859	163	0.781	208	0.784	253	0.996	298	0.533	343	0.433
29	0.386	74	0.910	119	0.853	164	0.781	209	0.789	254	0.993	299	0.520	344	0.436
30	0.391	75	0.920	120	0.847	165	0.781	210	0.795	255	0.990	300	0.508	345	0.437
31	0.398	76	0.929	121	0.841	166	0.781	211	0.800	256	0.986	301	0.495	346	0.439
32	0.405	77	0.938	122	0.836	167	0.781	212	0.806	257	0.981	302	0.482	347	0.440
33	0.412	78	0.946	123	0.830	168	0.781	213	0.812	258	0.976	303	0.470	348	0.440
34	0.420	79	0.954	124	0.825	169	0.781	214	0.817	259	0.970	304	0.458	349	0.441
35	0.429	80	0.961	125	0.819	170	0.781	215	0.823	260	0.964	305	0.446	350	0.441
36	0.438	81	0.968	126	0.814	171	0.780	216	0.830	261	0.957	306	0.435	351	0.441
37	0.447	82	0.974	127	0.809	172	0.780	217	0.836	262	0.950	307	0.425	352	0.441
38	0.457	83	0.980	128	0.804	173	0.779	218	0.842	263	0.943	308	0.415	353	0.440
39	0.468	84	0.985	129	0.799	174	0.779	219	0.848	264	0.935	309	0.406	354	0.440
40	0.479	85	0.989	130	0.795	175	0.779	220	0.855	265	0.927	310	0.399	355	0.439
41	0.490	86	0.993	131	0.791	176	0.778	221	0.862	266	0.918	311	0.392	356	0.438
42	0.502	87	0.995	132	0.786	177	0.778	222	0.868	267	0.910	312	0.386	357	0.436
43	0.514	88	0.998	133	0.783	178	0.777	223	0.875	268	0.900	313	0.380	358	0.434
44	0.526	89	0.999	134	0.779	179	0.776	224	0.881	269	0.891	314	0.376	359	0.432

Remarks:



Exhibit No.
24C

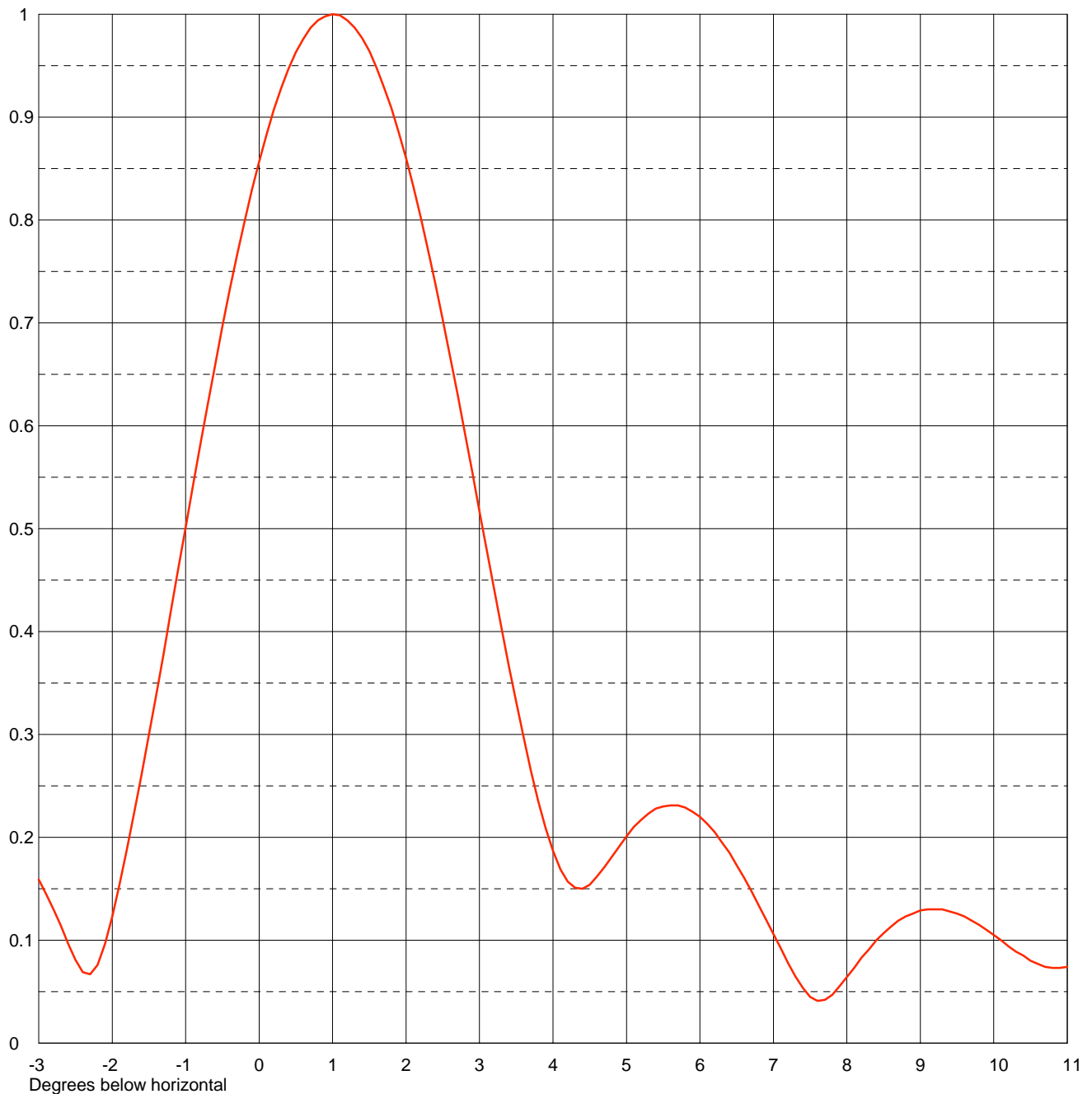
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01 Nov 2004
KLCS-DT
Los Angeles
Los Angeles Unified School District
TFU-16DSB-I

Channel 41

ELEVATION PATTERN

RMS Gain at Main Lobe	16.0 (12.04 dB)	Beam Tilt	1.00 Degrees
RMS Gain at Horizontal	11.8 (10.72 dB)	Frequency	635.00 MHz
Calculated / Measured	Calculated	Drawing #	16B160100



Remarks:



Exhibit No.
24D

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Channel 41

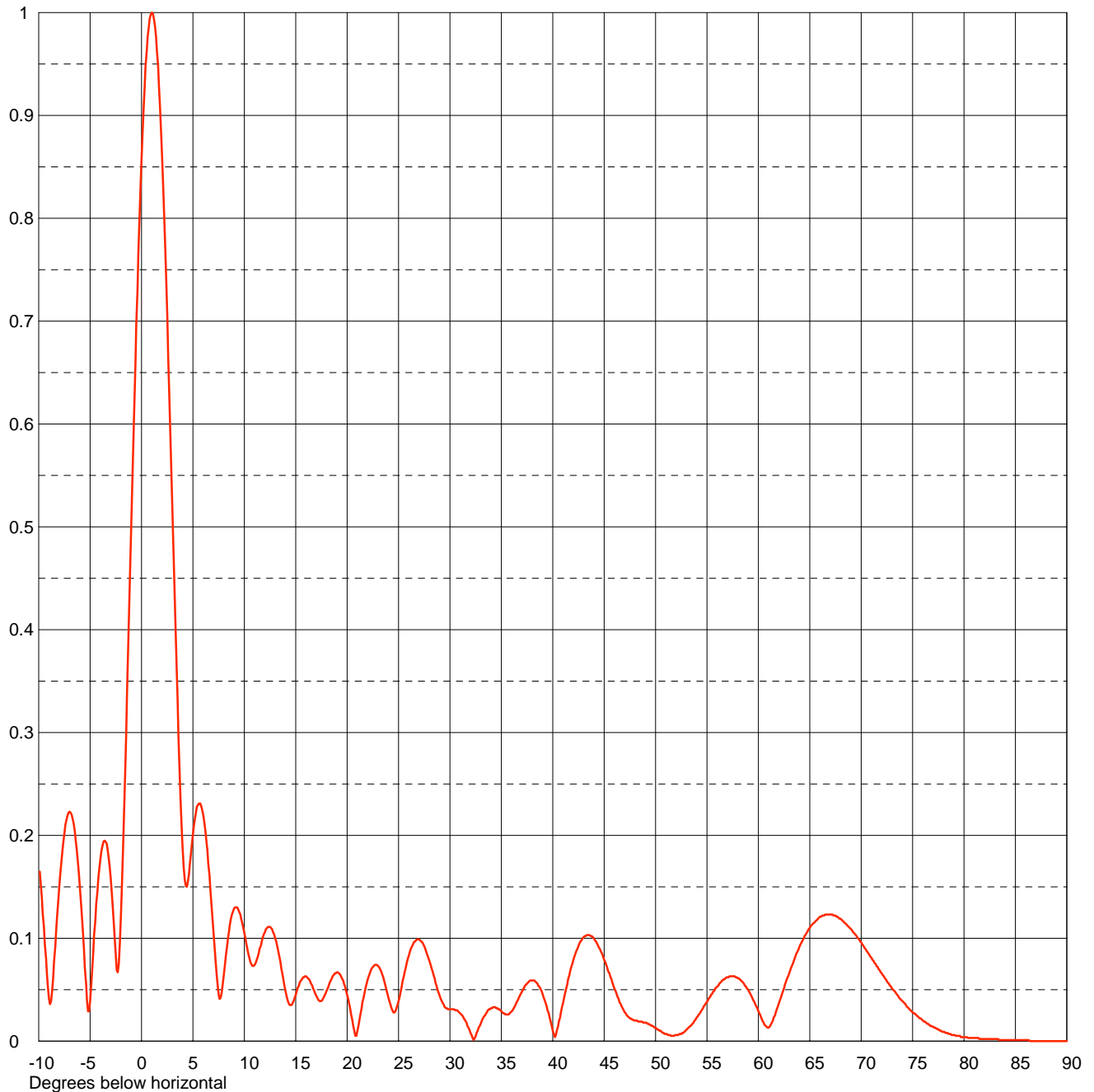
ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

16.0 (12.04 dB)
11.8 (10.72 dB)
Calculated

Beam Tilt
Frequency
Drawing #

1.00 Degrees
635.00 MHz
16B160100-90



Remarks:



Date **01 Nov 2004**
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TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **16B160100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.177	2.4	0.738	10.6	0.077	30.5	0.030	51.0	0.007	71.5	0.073
-9.5	0.110	2.6	0.667	10.8	0.073	31.0	0.027	51.5	0.005	72.0	0.066
-9.0	0.041	2.8	0.593	11.0	0.074	31.5	0.020	52.0	0.006	72.5	0.058
-8.5	0.077	3.0	0.517	11.5	0.090	32.0	0.008	52.5	0.007	73.0	0.051
-8.0	0.150	3.2	0.441	12.0	0.106	32.5	0.005	53.0	0.011	73.5	0.045
-7.5	0.203	3.4	0.366	12.5	0.111	33.0	0.017	53.5	0.016	74.0	0.039
-7.0	0.223	3.6	0.297	13.0	0.100	33.5	0.027	54.0	0.023	74.5	0.033
-6.5	0.204	3.8	0.235	13.5	0.077	34.0	0.032	54.5	0.030	75.0	0.028
-6.0	0.150	4.0	0.187	14.0	0.049	34.5	0.032	55.0	0.038	75.5	0.024
-5.5	0.071	4.2	0.157	14.5	0.035	35.0	0.029	55.5	0.046	76.0	0.020
-5.0	0.039	4.4	0.150	15.0	0.045	35.5	0.026	56.0	0.053	76.5	0.017
-4.5	0.118	4.6	0.162	15.5	0.059	36.0	0.029	56.5	0.059	77.0	0.014
-4.0	0.177	4.8	0.181	16.0	0.063	36.5	0.038	57.0	0.062	77.5	0.011
-3.5	0.194	5.0	0.201	16.5	0.056	37.0	0.048	57.5	0.063	78.0	0.009
-3.0	0.159	5.2	0.217	17.0	0.044	37.5	0.056	58.0	0.061	78.5	0.007
-2.8	0.130	5.4	0.228	17.5	0.039	38.0	0.059	58.5	0.057	79.0	0.006
-2.6	0.097	5.6	0.231	18.0	0.049	38.5	0.056	59.0	0.050	79.5	0.005
-2.4	0.069	5.8	0.229	18.5	0.061	39.0	0.046	59.5	0.040	80.0	0.004
-2.2	0.076	6.0	0.220	19.0	0.067	39.5	0.030	60.0	0.029	80.5	0.003
-2.0	0.123	6.2	0.205	19.5	0.061	40.0	0.010	60.5	0.018	81.0	0.003
-1.8	0.188	6.4	0.185	20.0	0.045	40.5	0.014	61.0	0.013	81.5	0.002
-1.6	0.261	6.6	0.161	20.5	0.020	41.0	0.037	61.5	0.023	82.0	0.002
-1.4	0.339	6.8	0.134	21.0	0.010	41.5	0.060	62.0	0.037	82.5	0.002
-1.2	0.420	7.0	0.106	21.5	0.038	42.0	0.079	62.5	0.052	83.0	0.002
-1.0	0.501	7.2	0.078	22.0	0.060	42.5	0.093	63.0	0.066	83.5	0.001
-0.8	0.582	7.4	0.054	22.5	0.072	43.0	0.101	63.5	0.080	84.0	0.001
-0.6	0.659	7.6	0.041	23.0	0.073	43.5	0.103	64.0	0.092	84.5	0.001
-0.4	0.732	7.8	0.047	23.5	0.062	44.0	0.100	64.5	0.102	85.0	0.001
-0.2	0.798	8.0	0.064	24.0	0.043	44.5	0.091	65.0	0.110	85.5	0.001
0.0	0.857	8.2	0.083	24.5	0.028	45.0	0.079	65.5	0.116	86.0	0.001
0.2	0.907	8.4	0.100	25.0	0.039	45.5	0.066	66.0	0.121	86.5	0.000
0.4	0.947	8.6	0.113	25.5	0.063	46.0	0.051	66.5	0.123	87.0	0.000
0.6	0.976	8.8	0.123	26.0	0.083	46.5	0.038	67.0	0.123	87.5	0.000
0.8	0.994	9.0	0.129	26.5	0.096	47.0	0.028	67.5	0.122	88.0	0.000
1.0	1.000	9.2	0.130	27.0	0.099	47.5	0.022	68.0	0.119	88.5	0.000
1.2	0.994	9.4	0.128	27.5	0.092	48.0	0.020	68.5	0.114	89.0	0.000
1.4	0.977	9.6	0.123	28.0	0.078	48.5	0.019	69.0	0.109	89.5	0.000
1.6	0.948	9.8	0.115	28.5	0.061	49.0	0.018	69.5	0.103	90.0	0.000
1.8	0.909	10.0	0.105	29.0	0.044	49.5	0.016	70.0	0.096		
2.0	0.860	10.2	0.094	29.5	0.033	50.0	0.013	70.5	0.088		
2.2	0.802	10.4	0.085	30.0	0.031	50.5	0.010	71.0	0.081		

Remarks: