Exhibit 5A.2 - §25.115(g)(1) PLOTS & TABLES FOR KU-BAND ANTENNAS

Exhibit Contains:

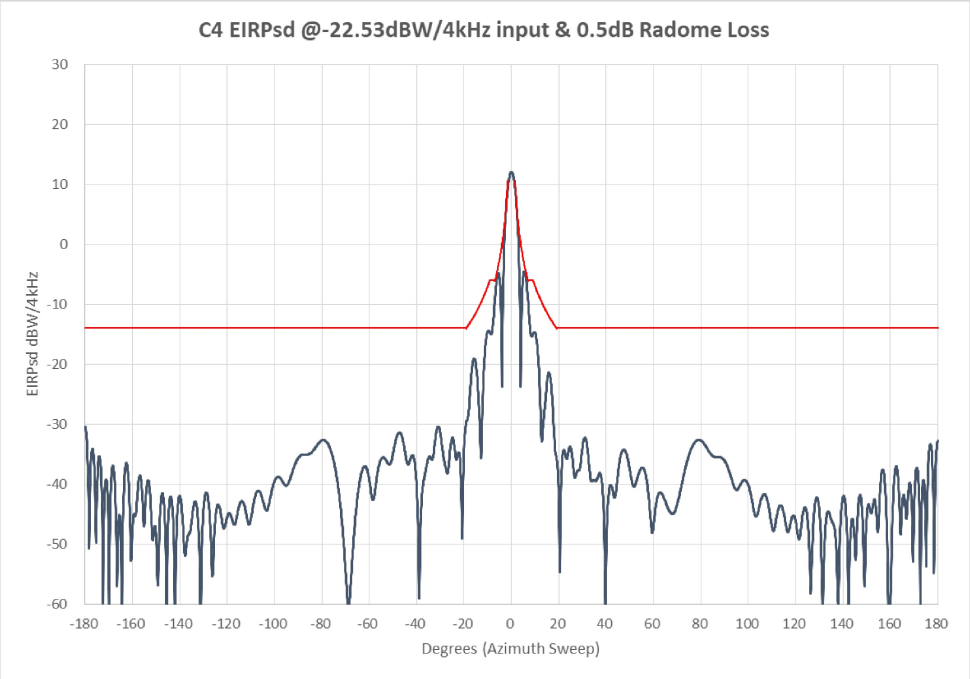
Plots and Tables for KNS C4, Z6 & Z7 antennas

KNS C4 Ku-band

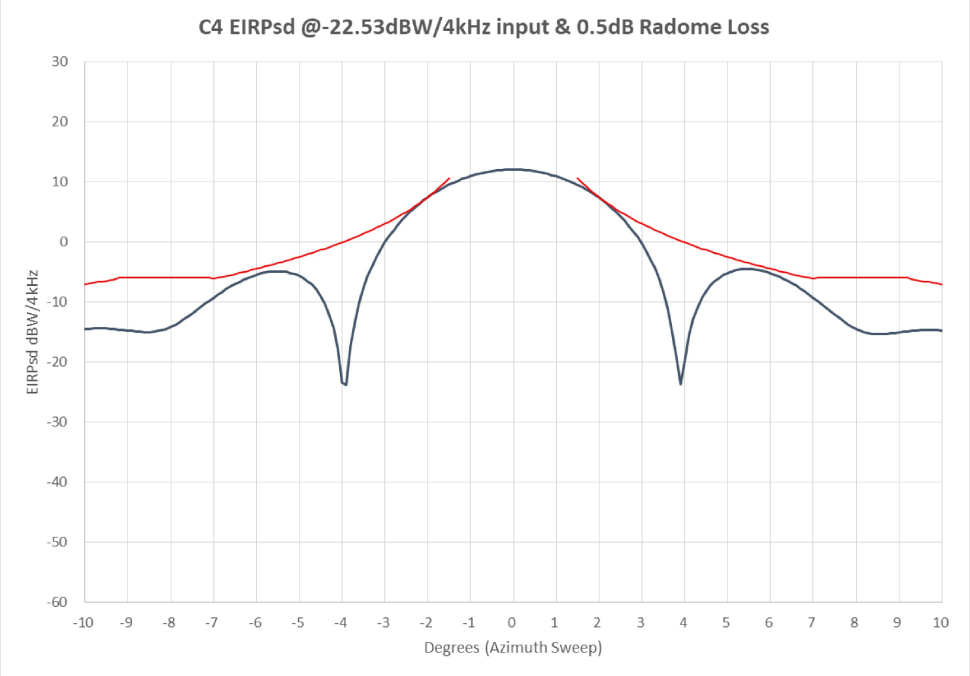
1. Maximum co-polarized EIRP density

1) 14GHz

a) At off-axis angles from ±180° range (Tangent)



b) At off-axis angles from ±10° range (Tangent)



Model	C4		Min input: (@all freq.)	-22.53
Frequency	14.00	[GHz]		
GSO arc	Tangent			
EIRPsd Input	-21.75	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	33.81			out of spec

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-8.67	-30.41	-14	5.33	0
-179.9	-8.70	-30.45	-14	5.30	0
-179.8	-8.81	-30.56	-14	5.19	0
-179.7	-9.00	-30.75	-14	5.00	0
-179.6	-9.27	-31.01	-14	4.73	0
-179.5	-9.61	-31.36	-14	4.39	0
-179.4	-10.05	-31.80	-14	3.95	0
-179.3	-10.58	-32.33	-14	3.42	0
-179.2	-11.23	-32.97	-14	2.77	0
-179.1	-11.99	-33.74	-14	2.01	0
-179.0	-12.90	-34.65	-14	1.10	0
-178.9	-13.98	-35.73	-14	0.02	0
-178.8	-15.27	-37.02	-14	-1.27	0
-178.7	-16.85	-38.60	-14	-2.85	0
-178.6	-18.80	-40.54	-14	-4.80	0
-178.5	-21.28	-43.03	-14	-7.28	0
-178.4	-24.52	-46.27	-14	-10.52	0
-178.3	-28.29	-50.03	-14	-14.29	0
-178.2	-29.00	-50.75	-14	-15.00	0
-178.1	-25.62	-47.37	-14	-11.62	0
-178.0	-22.40	-44.15	-14	-8.40	0
-177.9	-19.98	-41.72	-14	-5.98	0
-177.8	-18.13	-39.88	-14	-4.13	0
-177.7	-16.70	-38.45	-14	-2.70	0
-177.6	-15.57	-37.31	-14	-1.57	0
-177.5	-14.66	-36.41	-14	-0.66	0
-177.4	-13.95	-35.69	-14	0.05	0
-177.3	-13.39	-35.14	-14	0.61	0
-177.2	-12.96	-34.71	-14	1.04	0
-177.1	-12.66	-34.41	-14	1.34	0
-177.0	-12.47	-34.22	-14	1.53	0
-176.9	-12.38	-34.13	-14	1.62	0
-176.8	-12.40	-34.15	-14	1.60	0
-176.7	-12.52	-34.26	-14	1.48	0
-176.6	-12.74	-34.48	-14	1.26	0
-176.5	-13.06	-34.81	-14	0.94	0
-176.4	-13.49	-35.24	-14	0.51	0
-176.3	-14.05	-35.80	-14	-0.05	0
-176.2	-14.74	-36.49	-14	-0.74	0
-176.1	-15.58	-37.33	-14	-1.58	0
-176.0	-16.61	-38.36	-14	-2.61	0
-175.9	-17.85	-39.60	-14	-3.85	0

-175.8	-19.37	-41.12	-14	-5.37	0
-175.7	-21.24	-42.98	-14	-7.24	0
-175.6	-23.52	-45.27	-14	-9.52	0
-175.5	-26.13	-47.87	-14	-12.13	0
-175.4	-28.07	-49.82	-14	-14.07	0
-175.3	-27.43	-49.17	-14	-13.43	0
-175.2	-25.02	-46.77	-14	-11.02	0
-175.1	-22.61	-44.36	-14	-8.61	0
-175.0	-20.62	-42.37	-14	-6.62	0
-174.9	-19.02	-40.77	-14	-5.02	0
-174.8	-17.72	-39.47	-14	-3.72	0
-174.7	-16.67	-38.42	-14	-2.67	0
-174.6	-15.82	-37.57	-14	-1.82	0
-174.5	-15.14	-36.88	-14	-1.14	0
-174.4	-14.59	-36.34	-14	-0.59	0
-174.3	-14.17	-35.92	-14	-0.17	0
-174.2	-13.87	-35.62	-14	0.13	0
-174.1	-13.67	-35.42	-14	0.33	0
-174.0	-13.57	-35.32	-14	0.43	0
-173.9	-13.56	-35.31	-14	0.44	0
-173.8	-13.65	-35.40	-14	0.35	0
-173.7	-13.84	-35.59	-14	0.16	0
-173.6	-14.12	-35.87	-14	-0.12	0
-173.5	-14.51	-36.25	-14	-0.51	0
-173.4	-15.00	-36.75	-14	-1.00	0
-173.3	-15.62	-37.37	-14	-1.62	0
-173.2	-16.38	-38.13	-14	-2.38	0
-173.1	-17.29	-39.04	-14	-3.29	0
-173.0	-18.40	-40.15	-14	-4.40	0
-172.9	-19.75	-41.50	-14	-5.75	0
-172.8	-21.43	-43.18	-14	-7.43	0
-172.7	-23.58	-45.32	-14	-9.58	0
-172.6	-26.46	-48.21	-14	-12.46	0
-172.5	-30.75	-52.49	-14	-16.75	0
-172.4	-38.13	-59.88	-14	-24.13	0
-172.3	-37.73	-59.47	-14	-23.73	0
-172.2	-30.81	-52.56	-14	-16.81	0
-172.1	-26.88	-48.62	-14	-12.88	0
-172.0	-24.29	-46.03	-14	-10.29	0
-171.9	-22.42	-44.17	-14	-8.42	0
-171.8	-21.01	-42.76	-14	-7.01	0
-171.7	-19.93	-41.68	-14	-5.93	0
-171.6	-19.10	-40.85	-14	-5.10	0
-171.5	-18.47	-40.21	-14	-4.47	0
-171.4	-18.00	-39.75	-14	-4.00	0
-171.3	-17.69	-39.43	-14	-3.69	0
-171.2	-17.51	-39.26	-14	-3.51	0
-171.1	-17.46	-39.21	-14	-3.46	0
-171.0	-17.54	-39.29	-14	-3.54	0
-170.9	-17.75	-39.50	-14	-3.75	0

-170.8	-18.09	-39.84	-14	-4.09	0
-170.7	-18.58	-40.33	-14	-4.58	0
-170.6	-19.23	-40.97	-14	-5.23	0
-170.5	-20.06	-41.81	-14	-6.06	0
-170.4	-21.13	-42.88	-14	-7.13	0
-170.3	-22.49	-44.24	-14	-8.49	0
-170.2	-24.26	-46.01	-14	-10.26	0
-170.1	-26.65	-48.39	-14	-12.65	0
-170.0	-30.10	-51.85	-14	-16.10	0
-169.9	-35.86	-57.60	-14	-21.86	0
-169.8	-41.56	-63.31	-14	-27.56	0
-169.7	-33.61	-55.36	-14	-19.61	0
-169.6	-28.67	-50.41	-14	-14.67	0
-169.5	-25.50	-47.25	-14	-11.50	0
-169.4	-23.22	-44.97	-14	-9.22	0
-169.3	-21.47	-43.22	-14	-7.47	0
-169.2	-20.09	-41.83	-14	-6.09	0
-169.1	-18.96	-40.71	-14	-4.96	0
-169.0	-18.04	-39.79	-14	-4.04	0
-168.9	-17.28	-39.03	-14	-3.28	0
-168.8	-16.67	-38.42	-14	-2.67	0
-168.7	-16.18	-37.92	-14	-2.18	0
-168.6	-15.79	-37.54	-14	-1.79	0
-168.5	-15.50	-37.25	-14	-1.50	0
-168.4	-15.31	-37.06	-14	-1.31	0
-168.3	-15.20	-36.95	-14	-1.20	0
-168.2	-15.18	-36.93	-14	-1.18	0
-168.1	-15.24	-36.99	-14	-1.24	0
-168.0	-15.38	-37.13	-14	-1.38	0
-167.9	-15.61	-37.35	-14	-1.61	0
-167.8	-15.92	-37.66	-14	-1.92	0
-167.7	-16.32	-38.07	-14	-2.32	0
-167.6	-16.82	-38.56	-14	-2.82	0
-167.5	-17.42	-39.17	-14	-3.42	0
-167.4	-18.14	-39.88	-14	-4.14	0
-167.3	-18.98	-40.73	-14	-4.98	0
-167.2	-19.98	-41.73	-14	-5.98	0
-167.1	-21.16	-42.91	-14	-7.16	0
-167.0	-22.56	-44.31	-14	-8.56	0
-166.9	-24.25	-46.00	-14	-10.25	0
-166.8	-26.32	-48.06	-14	-12.32	0
-166.7	-28.89	-50.64	-14	-14.89	0
-166.6	-32.07	-53.82	-14	-18.07	0
-166.5	-35.21	-56.96	-14	-21.21	0
-166.4	-35.28	-57.03	-14	-21.28	0
-166.3	-32.55	-54.29	-14	-18.55	0
-166.2	-29.91	-51.66	-14	-15.91	0
-166.1	-27.89	-49.64	-14	-13.89	0
-166.0	-26.38	-48.13	-14	-12.38	0
-165.9	-25.26	-47.01	-14	-11.26	0

-165.8	-24.44	-46.18	-14	-10.44	0
-165.7	-23.86	-45.61	-14	-9.86	0
-165.6	-23.50	-45.25	-14	-9.50	0
-165.5	-23.33	-45.08	-14	-9.33	0
-165.4	-23.35	-45.10	-14	-9.35	0
-165.3	-23.56	-45.31	-14	-9.56	0
-165.2	-23.97	-45.72	-14	-9.97	0
-165.1	-24.60	-46.34	-14	-10.60	0
-165.0	-25.49	-47.24	-14	-11.49	0
-164.9	-26.72	-48.47	-14	-12.72	0
-164.8	-28.40	-50.15	-14	-14.40	0
-164.7	-30.79	-52.53	-14	-16.79	0
-164.6	-34.38	-56.12	-14	-20.38	0
-164.5	-40.06	-61.81	-14	-26.06	0
-164.4	-40.40	-62.15	-14	-26.40	0
-164.3	-34.09	-55.84	-14	-20.09	0
-164.2	-29.88	-51.63	-14	-15.88	0
-164.1	-26.93	-48.68	-14	-12.93	0
-164.0	-24.69	-46.44	-14	-10.69	0
-163.9	-22.91	-44.66	-14	-8.91	0
-163.8	-21.45	-43.20	-14	-7.45	0
-163.7	-20.22	-41.97	-14	-6.22	0
-163.6	-19.19	-40.94	-14	-5.19	0
-163.5	-18.30	-40.05	-14	-4.30	0
-163.4	-17.55	-39.30	-14	-3.55	0
-163.3	-16.91	-38.65	-14	-2.91	0
-163.2	-16.36	-38.11	-14	-2.36	0
-163.1	-15.91	-37.66	-14	-1.91	0
-163.0	-15.54	-37.29	-14	-1.54	0
-162.9	-15.24	-36.99	-14	-1.24	0
-162.8	-15.02	-36.77	-14	-1.02	0
-162.7	-14.87	-36.61	-14	-0.87	0
-162.6	-14.78	-36.52	-14	-0.78	0
-162.5	-14.75	-36.50	-14	-0.75	0
-162.4	-14.80	-36.54	-14	-0.80	0
-162.3	-14.90	-36.65	-14	-0.90	0
-162.2	-15.07	-36.82	-14	-1.07	0
-162.1	-15.31	-37.06	-14	-1.31	0
-162.0	-15.61	-37.36	-14	-1.61	0
-161.9	-15.99	-37.74	-14	-1.99	0
-161.8	-16.44	-38.19	-14	-2.44	0
-161.7	-16.97	-38.72	-14	-2.97	0
-161.6	-17.59	-39.34	-14	-3.59	0
-161.5	-18.30	-40.05	-14	-4.30	0
-161.4	-19.12	-40.86	-14	-5.12	0
-161.3	-20.05	-41.80	-14	-6.05	0
-161.2	-21.12	-42.86	-14	-7.12	0
-161.1	-22.33	-44.08	-14	-8.33	0
-161.0	-23.72	-45.47	-14	-9.72	0
-160.9	-25.30	-47.05	-14	-11.30	0

-160.8	-27.05	-48.80	-14	-13.05	0
-160.7	-28.87	-50.61	-14	-14.87	0
-160.6	-30.40	-52.15	-14	-16.40	0
-160.5	-31.07	-52.82	-14	-17.07	0
-160.4	-30.60	-52.35	-14	-16.60	0
-160.3	-29.44	-51.19	-14	-15.44	0
-160.2	-28.13	-49.88	-14	-14.13	0
-160.1	-26.94	-48.69	-14	-12.94	0
-160.0	-25.94	-47.69	-14	-11.94	0
-159.9	-25.13	-46.88	-14	-11.13	0
-159.8	-24.49	-46.24	-14	-10.49	0
-159.7	-24.00	-45.75	-14	-10.00	0
-159.6	-23.65	-45.40	-14	-9.65	0
-159.5	-23.41	-45.16	-14	-9.41	0
-159.4	-23.28	-45.02	-14	-9.28	0
-159.3	-23.23	-44.97	-14	-9.23	0
-159.2	-23.25	-44.99	-14	-9.25	0
-159.1	-23.32	-45.06	-14	-9.32	0
-159.0	-23.41	-45.16	-14	-9.41	0
-158.9	-23.50	-45.25	-14	-9.50	0
-158.8	-23.56	-45.31	-14	-9.56	0
-158.7	-23.55	-45.29	-14	-9.55	0
-158.6	-23.43	-45.18	-14	-9.43	0
-158.5	-23.20	-44.95	-14	-9.20	0
-158.4	-22.86	-44.60	-14	-8.86	0
-158.3	-22.41	-44.16	-14	-8.41	0
-158.2	-21.89	-43.64	-14	-7.89	0
-158.1	-21.32	-43.07	-14	-7.32	0
-158.0	-20.74	-42.49	-14	-6.74	0
-157.9	-20.17	-41.91	-14	-6.17	0
-157.8	-19.62	-41.36	-14	-5.62	0
-157.7	-19.10	-40.85	-14	-5.10	0
-157.6	-18.63	-40.38	-14	-4.63	0
-157.5	-18.21	-39.96	-14	-4.21	0
-157.4	-17.84	-39.59	-14	-3.84	0
-157.3	-17.53	-39.28	-14	-3.53	0
-157.2	-17.27	-39.02	-14	-3.27	0
-157.1	-17.07	-38.82	-14	-3.07	0
-157.0	-16.93	-38.67	-14	-2.93	0
-156.9	-16.84	-38.59	-14	-2.84	0
-156.8	-16.81	-38.56	-14	-2.81	0
-156.7	-16.84	-38.59	-14	-2.84	0
-156.6	-16.94	-38.68	-14	-2.94	0
-156.5	-17.09	-38.84	-14	-3.09	0
-156.4	-17.31	-39.06	-14	-3.31	0
-156.3	-17.59	-39.34	-14	-3.59	0
-156.2	-17.95	-39.70	-14	-3.95	0
-156.1	-18.37	-40.12	-14	-4.37	0
-156.0	-18.88	-40.63	-14	-4.88	0
-155.9	-19.46	-41.21	-14	-5.46	0

-155.8	-20.13	-41.87	-14	-6.13	0
-155.7	-20.87	-42.62	-14	-6.87	0
-155.6	-21.69	-43.44	-14	-7.69	0
-155.5	-22.57	-44.32	-14	-8.57	0
-155.4	-23.46	-45.20	-14	-9.46	0
-155.3	-24.28	-46.03	-14	-10.28	0
-155.2	-24.92	-46.67	-14	-10.92	0
-155.1	-25.25	-47.00	-14	-11.25	0
-155.0	-25.18	-46.92	-14	-11.18	0
-154.9	-24.73	-46.48	-14	-10.73	0
-154.8	-24.03	-45.78	-14	-10.03	0
-154.7	-23.21	-44.96	-14	-9.21	0
-154.6	-22.37	-44.12	-14	-8.37	0
-154.5	-21.56	-43.31	-14	-7.56	0
-154.4	-20.82	-42.57	-14	-6.82	0
-154.3	-20.16	-41.91	-14	-6.16	0
-154.2	-19.58	-41.33	-14	-5.58	0
-154.1	-19.08	-40.83	-14	-5.08	0
-154.0	-18.66	-40.41	-14	-4.66	0
-153.9	-18.32	-40.06	-14	-4.32	0
-153.8	-18.04	-39.79	-14	-4.04	0
-153.7	-17.83	-39.58	-14	-3.83	0
-153.6	-17.69	-39.44	-14	-3.69	0
-153.5	-17.62	-39.36	-14	-3.62	0
-153.4	-17.60	-39.35	-14	-3.60	0
-153.3	-17.65	-39.39	-14	-3.65	0
-153.2	-17.75	-39.50	-14	-3.75	0
-153.1	-17.92	-39.67	-14	-3.92	0
-153.0	-18.15	-39.90	-14	-4.15	0
-152.9	-18.44	-40.19	-14	-4.44	0
-152.8	-18.79	-40.54	-14	-4.79	0
-152.7	-19.21	-40.96	-14	-5.21	0
-152.6	-19.70	-41.44	-14	-5.70	0
-152.5	-20.25	-42.00	-14	-6.25	0
-152.4	-20.87	-42.62	-14	-6.87	0
-152.3	-21.56	-43.31	-14	-7.56	0
-152.2	-22.32	-44.06	-14	-8.32	0
-152.1	-23.13	-44.88	-14	-9.13	0
-152.0	-24.00	-45.75	-14	-10.00	0
-151.9	-24.89	-46.63	-14	-10.89	0
-151.8	-25.75	-47.50	-14	-11.75	0
-151.7	-26.53	-48.28	-14	-12.53	0
-151.6	-27.14	-48.89	-14	-13.14	0
-151.5	-27.52	-49.27	-14	-13.52	0
-151.4	-27.63	-49.38	-14	-13.63	0
-151.3	-27.50	-49.25	-14	-13.50	0
-151.2	-27.19	-48.94	-14	-13.19	0
-151.1	-26.80	-48.55	-14	-12.80	0
-151.0	-26.39	-48.14	-14	-12.39	0
-150.9	-26.01	-47.75	-14	-12.01	0

-150.8	-25.68	-47.43	-14	-11.68	0
-150.7	-25.44	-47.18	-14	-11.44	0
-150.6	-25.28	-47.03	-14	-11.28	0
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6.5	14.91	-6.84	-5.322833916	20.23	0
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6.7	14.03	-7.72	-5.651870068	19.68	0
6.8	13.54	-8.20	-5.812722818	19.36	0
6.9	13.04	-8.71	-5.971227268	19.01	0
7.0	12.51	-9.24	-6.127451	18.64	0
7.1	11.96	-9.79	-6	17.96	0
7.2	11.40	-10.35	-6	17.40	0
7.3	10.83	-10.92	-6	16.83	0
7.4	10.25	-11.49	-6	16.25	0
7.5	9.69	-12.06	-6	15.69	0
7.6	9.13	-12.62	-6	15.13	0
7.7	8.60	-13.14	-6	14.60	0
7.8	8.11	-13.63	-6	14.11	0
7.9	7.67	-14.08	-6	13.67	0
8.0	7.29	-14.46	-6	13.29	0
8.1	6.97	-14.78	-6	12.97	0
8.2	6.73	-15.02	-6	12.73	0
8.3	6.55	-15.19	-6	12.55	0
8.4	6.45	-15.30	-6	12.45	0
8.5	6.40	-15.34	-6	12.40	0
8.6	6.41	-15.34	-6	12.41	0
8.7	6.45	-15.30	-6	12.45	0
8.8	6.52	-15.23	-6	12.52	0
8.9	6.61	-15.14	-6	12.61	0
9.0	6.70	-15.04	-6	12.70	0
9.1	6.80	-14.95	-6	12.80	0

9.2	6.89	-14.86	-6	12.89	0
9.3	6.97	-14.78	-6.212073714	13.18	0
9.4	7.04	-14.71	-6.32819634	13.36	0
9.5	7.08	-14.67	-6.443090132	13.53	0
9.6	7.11	-14.64	-6.556780826	13.67	0
9.7	7.11	-14.64	-6.669293357	13.78	0
9.8	7.09	-14.66	-6.780651892	13.87	0
9.9	7.04	-14.70	-6.890879865	13.93	0
10.0	6.97	-14.78	-7	13.97	0
10.1	6.87	-14.88	-7.108034345	13.98	0
10.2	6.73	-15.01	-7.215004294	13.95	0
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10.5	6.15	-15.60	-7.529732477	13.68	0
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10.7	5.58	-16.16	-7.734594442	13.32	0
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10.9	4.87	-16.88	-7.935662449	12.81	0
11.0	4.45	-17.30	-8.034817129	12.49	0
11.1	3.99	-17.76	-8.13307447	12.12	0
11.2	3.48	-18.27	-8.230450567	11.71	0
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11.4	2.31	-19.43	-8.422621283	10.74	0
11.5	1.65	-20.10	-8.517446009	10.16	0
11.6	0.92	-20.83	-8.611449731	9.53	0
11.7	0.12	-21.62	-8.704646544	8.83	0
11.8	-0.74	-22.49	-8.797050183	8.06	0
11.9	-1.68	-23.43	-8.888674035	7.20	0
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12.1	-3.82	-25.56	-9.069634258	5.25	0
12.2	-5.01	-26.76	-9.158995767	4.15	0
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12.4	-7.59	-29.34	-9.335542129	1.75	0
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12.6	-10.01	-31.76	-9.509263628	-0.51	0
12.7	-10.84	-32.59	-9.595093024	-1.24	0
12.8	-11.21	-32.96	-9.680249241	-1.53	0
12.9	-11.13	-32.88	-9.764742757	-1.36	0
13.0	-10.72	-32.47	-9.848583808	-0.88	0
13.1	-10.16	-31.91	-9.931782391	-0.23	0
13.2	-9.58	-31.33	-10.01434828	0.43	0
13.3	-9.04	-30.79	-10.09629102	1.05	0
13.4	-8.59	-30.33	-10.17761996	1.59	0
13.5	-8.12	-29.87	-10.25834421	2.13	0
13.6	-7.56	-29.31	-10.33847271	2.78	0
13.7	-7.10	-28.84	-10.41801418	3.32	0
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14.0	-5.95	-27.69	-10.65320089	4.71	0
14.1	-5.53	-27.28	-10.73047782	5.20	0

14.2	-5.00	-26.74	-10.80720861	5.81	0
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14.9	-1.49	-23.24	-11.32965671	9.84	0
15.0	-1.31	-23.06	-11.40228148	10.09	0
15.1	-0.61	-22.36	-11.47442368	10.87	0
15.2	-0.36	-22.11	-11.5460897	11.19	0
15.3	-0.15	-21.90	-11.61728577	11.47	0
15.4	0.02	-21.73	-11.68801802	11.71	0
15.5	0.15	-21.59	-11.75829245	11.91	0
15.6	0.25	-21.50	-11.82811496	12.08	0
15.7	0.30	-21.44	-11.89749131	12.20	0
15.8	0.32	-21.43	-11.96642717	12.29	0
15.9	0.30	-21.45	-12.03492811	12.33	0
16.0	0.24	-21.51	-12.10299957	12.34	0
16.1	0.13	-21.61	-12.1706469	12.31	0
16.2	-0.01	-21.75	-12.23787536	12.23	0
16.3	-0.19	-21.93	-12.30469011	12.12	0
16.4	-0.41	-22.15	-12.3710962	11.97	0
16.5	-0.67	-22.41	-12.43709861	11.77	0
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16.7	-1.31	-23.06	-12.56791178	11.25	0
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18.4	-12.29	-34.04	-13.62044558	1.33	0
18.5	-12.72	-34.46	-13.67929321	0.96	0
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18.7	-13.25	-35.00	-13.79604016	0.54	0
18.8	-13.42	-35.17	-13.85394623	0.43	0
18.9	-13.56	-35.31	-13.9115451	0.35	0
19.0	-13.71	-35.46	-13.96884002	0.26	0
19.1	-13.89	-35.64	-14.02583418	0.13	0

19.2	-14.13	-35.88	-14	-0.13	0
19.3	-14.44	-36.19	-14	-0.44	0
19.4	-14.85	-36.60	-14	-0.85	0
19.5	-15.37	-37.12	-14	-1.37	0
19.6	-16.03	-37.77	-14	-2.03	0
19.7	-16.84	-38.59	-14	-2.84	0
19.8	-17.85	-39.60	-14	-3.85	0
19.9	-19.11	-40.85	-14	-5.11	0
20.0	-20.69	-42.44	-14	-6.69	0
20.1	-22.74	-44.49	-14	-8.74	0
20.2	-25.47	-47.22	-14	-11.47	0
20.3	-29.22	-50.97	-14	-15.22	0
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20.5	-31.00	-52.74	-14	-17.00	0
20.6	-26.81	-48.56	-14	-12.81	0
20.7	-23.64	-45.39	-14	-9.64	0
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21.1	-16.85	-38.60	-14	-2.85	0
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21.3	-15.10	-36.85	-14	-1.10	0
21.4	-14.45	-36.20	-14	-0.45	0
21.5	-13.91	-35.66	-14	0.09	0
21.6	-13.49	-35.23	-14	0.51	0
21.7	-13.15	-34.90	-14	0.85	0
21.8	-12.90	-34.64	-14	1.10	0
21.9	-12.72	-34.46	-14	1.28	0
22.0	-12.61	-34.35	-14	1.39	0
22.1	-12.56	-34.31	-14	1.44	0
22.2	-12.57	-34.32	-14	1.43	0
22.3	-12.63	-34.38	-14	1.37	0
22.4	-12.74	-34.48	-14	1.26	0
22.5	-12.88	-34.63	-14	1.12	0
22.6	-13.05	-34.80	-14	0.95	0
22.7	-13.24	-34.99	-14	0.76	0
22.8	-13.44	-35.19	-14	0.56	0
22.9	-13.63	-35.38	-14	0.37	0
23.0	-13.81	-35.55	-14	0.19	0
23.1	-13.95	-35.69	-14	0.05	0
23.2	-14.04	-35.79	-14	-0.04	0
23.3	-14.08	-35.83	-14	-0.08	0
23.4	-14.05	-35.80	-14	-0.05	0
23.5	-13.97	-35.72	-14	0.03	0
23.6	-13.84	-35.58	-14	0.16	0
23.7	-13.66	-35.41	-14	0.34	0
23.8	-13.45	-35.20	-14	0.55	0
23.9	-13.23	-34.97	-14	0.77	0
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24.1	-12.77	-34.52	-14	1.23	0

24.2	-12.57	-34.32	-14	1.43	0
24.3	-12.39	-34.13	-14	1.61	0
24.4	-12.23	-33.98	-14	1.77	0
24.5	-12.11	-33.86	-14	1.89	0
24.6	-12.03	-33.77	-14	1.97	0
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24.8	-11.98	-33.72	-14	2.02	0
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25.0	-12.09	-33.84	-14	1.91	0
25.1	-12.21	-33.96	-14	1.79	0
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25.4	-12.83	-34.58	-14	1.17	0
25.5	-13.12	-34.87	-14	0.88	0
25.6	-13.45	-35.20	-14	0.55	0
25.7	-13.81	-35.56	-14	0.19	0
25.8	-14.20	-35.95	-14	-0.20	0
25.9	-14.61	-36.36	-14	-0.61	0
26.0	-15.04	-36.79	-14	-1.04	0
26.1	-15.47	-37.22	-14	-1.47	0
26.2	-15.89	-37.63	-14	-1.89	0
26.3	-16.27	-38.02	-14	-2.27	0
26.4	-16.61	-38.36	-14	-2.61	0
26.5	-16.89	-38.64	-14	-2.89	0
26.6	-17.09	-38.83	-14	-3.09	0
26.7	-17.20	-38.95	-14	-3.20	0
26.8	-17.24	-38.98	-14	-3.24	0
26.9	-17.20	-38.95	-14	-3.20	0
27.0	-17.11	-38.85	-14	-3.11	0
27.1	-16.97	-38.72	-14	-2.97	0
27.2	-16.81	-38.56	-14	-2.81	0
27.3	-16.65	-38.40	-14	-2.65	0
27.4	-16.49	-38.24	-14	-2.49	0
27.5	-16.34	-38.09	-14	-2.34	0
27.6	-16.22	-37.97	-14	-2.22	0
27.7	-16.12	-37.87	-14	-2.12	0
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28.3	-15.99	-37.74	-14	-1.99	0
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28.5	-16.00	-37.75	-14	-2.00	0
28.6	-15.97	-37.72	-14	-1.97	0
28.7	-15.91	-37.66	-14	-1.91	0
28.8	-15.81	-37.56	-14	-1.81	0
28.9	-15.66	-37.41	-14	-1.66	0
29.0	-15.46	-37.21	-14	-1.46	0
29.1	-15.21	-36.96	-14	-1.21	0

29.2	-14.92	-36.67	-14	-0.92	0
29.3	-14.60	-36.35	-14	-0.60	0
29.4	-14.26	-36.00	-14	-0.26	0
29.5	-13.90	-35.64	-14	0.10	0
29.6	-13.53	-35.28	-14	0.47	0
29.7	-13.17	-34.91	-14	0.83	0
29.8	-12.81	-34.56	-14	1.19	0
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30.2	-11.59	-33.34	-14	2.41	0
30.3	-11.35	-33.10	-14	2.65	0
30.4	-11.14	-32.89	-14	2.86	0
30.5	-10.96	-32.70	-14	3.04	0
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30.8	-10.60	-32.35	-14	3.40	0
30.9	-10.55	-32.30	-14	3.45	0
31.0	-10.53	-32.27	-14	3.47	0
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31.2	-10.58	-32.33	-14	3.42	0
31.3	-10.65	-32.40	-14	3.35	0
31.4	-10.76	-32.51	-14	3.24	0
31.5	-10.90	-32.65	-14	3.10	0
31.6	-11.07	-32.81	-14	2.93	0
31.7	-11.27	-33.02	-14	2.73	0
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31.9	-11.76	-33.51	-14	2.24	0
32.0	-12.05	-33.80	-14	1.95	0
32.1	-12.37	-34.12	-14	1.63	0
32.2	-12.72	-34.46	-14	1.28	0
32.3	-13.09	-34.83	-14	0.91	0
32.4	-13.48	-35.23	-14	0.52	0
32.5	-13.89	-35.64	-14	0.11	0
32.6	-14.31	-36.06	-14	-0.31	0
32.7	-14.74	-36.49	-14	-0.74	0
32.8	-15.18	-36.93	-14	-1.18	0
32.9	-15.60	-37.35	-14	-1.60	0
33.0	-16.01	-37.76	-14	-2.01	0
33.1	-16.39	-38.14	-14	-2.39	0
33.2	-16.74	-38.49	-14	-2.74	0
33.3	-17.04	-38.79	-14	-3.04	0
33.4	-17.29	-39.04	-14	-3.29	0
33.5	-17.49	-39.23	-14	-3.49	0
33.6	-17.63	-39.37	-14	-3.63	0
33.7	-17.72	-39.46	-14	-3.72	0
33.8	-17.76	-39.51	-14	-3.76	0
33.9	-17.77	-39.52	-14	-3.77	0
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34.4	-17.60	-39.35	-14	-3.60	0
34.5	-17.57	-39.32	-14	-3.57	0
34.6	-17.55	-39.30	-14	-3.55	0
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34.8	-17.55	-39.30	-14	-3.55	0
34.9	-17.56	-39.31	-14	-3.56	0
35.0	-17.59	-39.33	-14	-3.59	0
35.1	-17.62	-39.36	-14	-3.62	0
35.2	-17.65	-39.39	-14	-3.65	0
35.3	-17.68	-39.42	-14	-3.68	0
35.4	-17.70	-39.45	-14	-3.70	0
35.5	-17.72	-39.47	-14	-3.72	0
35.6	-17.72	-39.47	-14	-3.72	0
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36.5	-17.04	-38.78	-14	-3.04	0
36.6	-16.92	-38.66	-14	-2.92	0
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36.8	-16.69	-38.44	-14	-2.69	0
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37.3	-16.43	-38.17	-14	-2.43	0
37.4	-16.45	-38.19	-14	-2.45	0
37.5	-16.50	-38.24	-14	-2.50	0
37.6	-16.58	-38.33	-14	-2.58	0
37.7	-16.70	-38.44	-14	-2.70	0
37.8	-16.85	-38.60	-14	-2.85	0
37.9	-17.04	-38.79	-14	-3.04	0
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38.1	-17.56	-39.31	-14	-3.56	0
38.2	-17.89	-39.64	-14	-3.89	0
38.3	-18.28	-40.03	-14	-4.28	0
38.4	-18.73	-40.47	-14	-4.73	0
38.5	-19.24	-40.98	-14	-5.24	0
38.6	-19.82	-41.57	-14	-5.82	0
38.7	-20.49	-42.24	-14	-6.49	0
38.8	-21.25	-43.00	-14	-7.25	0
38.9	-22.13	-43.88	-14	-8.13	0
39.0	-23.16	-44.90	-14	-9.16	0
39.1	-24.35	-46.10	-14	-10.35	0

39.2	-25.78	-47.53	-14	-11.78	0
39.3	-27.52	-49.27	-14	-13.52	0
39.4	-29.74	-51.48	-14	-15.74	0
39.5	-32.72	-54.47	-14	-18.72	0
39.6	-37.23	-58.97	-14	-23.23	0
39.7	-45.21	-66.96	-14	-31.21	0
39.8	-42.68	-64.42	-14	-28.68	0
39.9	-35.93	-57.68	-14	-21.93	0
40.0	-32.05	-53.80	-14	-18.05	0
40.1	-29.41	-51.16	-14	-15.41	0
40.2	-27.43	-49.18	-14	-13.43	0
40.3	-25.87	-47.62	-14	-11.87	0
40.4	-24.60	-46.35	-14	-10.60	0
40.5	-23.54	-45.29	-14	-9.54	0
40.6	-22.65	-44.39	-14	-8.65	0
40.7	-21.89	-43.63	-14	-7.89	0
40.8	-21.23	-42.98	-14	-7.23	0
40.9	-20.67	-42.42	-14	-6.67	0
41.0	-20.19	-41.94	-14	-6.19	0
41.1	-19.79	-41.53	-14	-5.79	0
41.2	-19.44	-41.19	-14	-5.44	0
41.3	-19.15	-40.90	-14	-5.15	0
41.4	-18.91	-40.66	-14	-4.91	0
41.5	-18.73	-40.47	-14	-4.73	0
41.6	-18.58	-40.33	-14	-4.58	0
41.7	-18.48	-40.23	-14	-4.48	0
41.8	-18.42	-40.16	-14	-4.42	0
41.9	-18.39	-40.14	-14	-4.39	0
42.0	-18.40	-40.15	-14	-4.40	0
42.1	-18.44	-40.19	-14	-4.44	0
42.2	-18.51	-40.26	-14	-4.51	0
42.3	-18.61	-40.36	-14	-4.61	0
42.4	-18.74	-40.49	-14	-4.74	0
42.5	-18.89	-40.64	-14	-4.89	0
42.6	-19.06	-40.80	-14	-5.06	0
42.7	-19.24	-40.99	-14	-5.24	0
42.8	-19.44	-41.18	-14	-5.44	0
42.9	-19.64	-41.38	-14	-5.64	0
43.0	-19.83	-41.58	-14	-5.83	0
43.1	-20.02	-41.77	-14	-6.02	0
43.2	-20.19	-41.93	-14	-6.19	0
43.3	-20.32	-42.07	-14	-6.32	0
43.4	-20.42	-42.17	-14	-6.42	0
43.5	-20.47	-42.22	-14	-6.47	0
43.6	-20.47	-42.22	-14	-6.47	0
43.7	-20.41	-42.15	-14	-6.41	0
43.8	-20.28	-42.03	-14	-6.28	0
43.9	-20.10	-41.85	-14	-6.10	0
44.0	-19.87	-41.62	-14	-5.87	0
44.1	-19.59	-41.34	-14	-5.59	0

44.2	-19.28	-41.03	-14	-5.28	0
44.3	-18.94	-40.69	-14	-4.94	0
44.4	-18.59	-40.33	-14	-4.59	0
44.5	-18.22	-39.97	-14	-4.22	0
44.6	-17.85	-39.60	-14	-3.85	0
44.7	-17.48	-39.23	-14	-3.48	0
44.8	-17.11	-38.86	-14	-3.11	0
44.9	-16.76	-38.50	-14	-2.76	0
45.0	-16.41	-38.16	-14	-2.41	0
45.1	-16.08	-37.83	-14	-2.08	0
45.2	-15.76	-37.51	-14	-1.76	0
45.3	-15.46	-37.21	-14	-1.46	0
45.4	-15.17	-36.92	-14	-1.17	0
45.5	-14.90	-36.65	-14	-0.90	0
45.6	-14.64	-36.39	-14	-0.64	0
45.7	-14.40	-36.15	-14	-0.40	0
45.8	-14.17	-35.92	-14	-0.17	0
45.9	-13.96	-35.71	-14	0.04	0
46.0	-13.77	-35.52	-14	0.23	0
46.1	-13.59	-35.33	-14	0.41	0
46.2	-13.42	-35.17	-14	0.58	0
46.3	-13.27	-35.02	-14	0.73	0
46.4	-13.13	-34.88	-14	0.87	0
46.5	-13.01	-34.76	-14	0.99	0
46.6	-12.90	-34.64	-14	1.10	0
46.7	-12.80	-34.55	-14	1.20	0
46.8	-12.72	-34.46	-14	1.28	0
46.9	-12.64	-34.39	-14	1.36	0
47.0	-12.59	-34.33	-14	1.41	0
47.1	-12.54	-34.29	-14	1.46	0
47.2	-12.51	-34.25	-14	1.49	0
47.3	-12.48	-34.23	-14	1.52	0
47.4	-12.47	-34.22	-14	1.53	0
47.5	-12.48	-34.22	-14	1.52	0
47.6	-12.49	-34.24	-14	1.51	0
47.7	-12.52	-34.26	-14	1.48	0
47.8	-12.55	-34.30	-14	1.45	0
47.9	-12.60	-34.35	-14	1.40	0
48.0	-12.66	-34.41	-14	1.34	0
48.1	-12.73	-34.48	-14	1.27	0
48.2	-12.82	-34.56	-14	1.18	0
48.3	-12.91	-34.66	-14	1.09	0
48.4	-13.01	-34.76	-14	0.99	0
48.5	-13.13	-34.88	-14	0.87	0
48.6	-13.25	-35.00	-14	0.75	0
48.7	-13.39	-35.14	-14	0.61	0
48.8	-13.54	-35.28	-14	0.46	0
48.9	-13.69	-35.44	-14	0.31	0
49.0	-13.86	-35.60	-14	0.14	0
49.1	-14.03	-35.78	-14	-0.03	0

49.2	-14.21	-35.96	-14	-0.21	0
49.3	-14.41	-36.15	-14	-0.41	0
49.4	-14.61	-36.35	-14	-0.61	0
49.5	-14.81	-36.56	-14	-0.81	0
49.6	-15.03	-36.78	-14	-1.03	0
49.7	-15.25	-37.00	-14	-1.25	0
49.8	-15.47	-37.22	-14	-1.47	0
49.9	-15.70	-37.45	-14	-1.70	0
50.0	-15.93	-37.68	-14	-1.93	0
50.1	-16.17	-37.92	-14	-2.17	0
50.2	-16.40	-38.15	-14	-2.40	0
50.3	-16.63	-38.38	-14	-2.63	0
50.4	-16.86	-38.61	-14	-2.86	0
50.5	-17.09	-38.83	-14	-3.09	0
50.6	-17.30	-39.05	-14	-3.30	0
50.7	-17.51	-39.26	-14	-3.51	0
50.8	-17.71	-39.45	-14	-3.71	0
50.9	-17.89	-39.64	-14	-3.89	0
51.0	-18.06	-39.80	-14	-4.06	0
51.1	-18.20	-39.95	-14	-4.20	0
51.2	-18.33	-40.08	-14	-4.33	0
51.3	-18.44	-40.19	-14	-4.44	0
51.4	-18.53	-40.28	-14	-4.53	0
51.5	-18.59	-40.34	-14	-4.59	0
51.6	-18.64	-40.38	-14	-4.64	0
51.7	-18.66	-40.40	-14	-4.66	0
51.8	-18.65	-40.40	-14	-4.65	0
51.9	-18.63	-40.38	-14	-4.63	0
52.0	-18.59	-40.34	-14	-4.59	0
52.1	-18.53	-40.28	-14	-4.53	0
52.2	-18.45	-40.20	-14	-4.45	0
52.3	-18.36	-40.11	-14	-4.36	0
52.4	-18.26	-40.01	-14	-4.26	0
52.5	-18.15	-39.89	-14	-4.15	0
52.6	-18.03	-39.77	-14	-4.03	0
52.7	-17.90	-39.65	-14	-3.90	0
52.8	-17.76	-39.51	-14	-3.76	0
52.9	-17.63	-39.38	-14	-3.63	0
53.0	-17.49	-39.24	-14	-3.49	0
53.1	-17.35	-39.10	-14	-3.35	0
53.2	-17.21	-38.96	-14	-3.21	0
53.3	-17.07	-38.82	-14	-3.07	0
53.4	-16.94	-38.68	-14	-2.94	0
53.5	-16.80	-38.55	-14	-2.80	0
53.6	-16.67	-38.42	-14	-2.67	0
53.7	-16.55	-38.30	-14	-2.55	0
53.8	-16.43	-38.18	-14	-2.43	0
53.9	-16.31	-38.06	-14	-2.31	0
54.0	-16.20	-37.95	-14	-2.20	0
54.1	-16.10	-37.85	-14	-2.10	0

54.2	-16.00	-37.75	-14	-2.00	0
54.3	-15.92	-37.66	-14	-1.92	0
54.4	-15.83	-37.58	-14	-1.83	0
54.5	-15.76	-37.51	-14	-1.76	0
54.6	-15.69	-37.44	-14	-1.69	0
54.7	-15.64	-37.39	-14	-1.64	0
54.8	-15.59	-37.34	-14	-1.59	0
54.9	-15.55	-37.30	-14	-1.55	0
55.0	-15.52	-37.27	-14	-1.52	0
55.1	-15.50	-37.25	-14	-1.50	0
55.2	-15.49	-37.24	-14	-1.49	0
55.3	-15.49	-37.24	-14	-1.49	0
55.4	-15.50	-37.25	-14	-1.50	0
55.5	-15.52	-37.27	-14	-1.52	0
55.6	-15.55	-37.30	-14	-1.55	0
55.7	-15.60	-37.34	-14	-1.60	0
55.8	-15.65	-37.40	-14	-1.65	0
55.9	-15.72	-37.47	-14	-1.72	0
56.0	-15.80	-37.54	-14	-1.80	0
56.1	-15.89	-37.64	-14	-1.89	0
56.2	-15.99	-37.74	-14	-1.99	0
56.3	-16.11	-37.86	-14	-2.11	0
56.4	-16.24	-37.99	-14	-2.24	0
56.5	-16.39	-38.13	-14	-2.39	0
56.6	-16.55	-38.29	-14	-2.55	0
56.7	-16.72	-38.47	-14	-2.72	0
56.8	-16.91	-38.66	-14	-2.91	0
56.9	-17.11	-38.86	-14	-3.11	0
57.0	-17.34	-39.08	-14	-3.34	0
57.1	-17.57	-39.32	-14	-3.57	0
57.2	-17.83	-39.58	-14	-3.83	0
57.3	-18.10	-39.85	-14	-4.10	0
57.4	-18.39	-40.14	-14	-4.39	0
57.5	-18.70	-40.45	-14	-4.70	0
57.6	-19.03	-40.78	-14	-5.03	0
57.7	-19.38	-41.13	-14	-5.38	0
57.8	-19.75	-41.50	-14	-5.75	0
57.9	-20.14	-41.89	-14	-6.14	0
58.0	-20.55	-42.30	-14	-6.55	0
58.1	-20.98	-42.73	-14	-6.98	0
58.2	-21.43	-43.18	-14	-7.43	0
58.3	-21.90	-43.64	-14	-7.90	0
58.4	-22.38	-44.13	-14	-8.38	0
58.5	-22.88	-44.62	-14	-8.88	0
58.6	-23.38	-45.13	-14	-9.38	0
58.7	-23.88	-45.63	-14	-9.88	0
58.8	-24.38	-46.13	-14	-10.38	0
58.9	-24.85	-46.60	-14	-10.85	0
59.0	-25.29	-47.03	-14	-11.29	0
59.1	-25.67	-47.41	-14	-11.67	0

59.2	-25.97	-47.72	-14	-11.97	0
59.3	-26.19	-47.94	-14	-12.19	0
59.4	-26.31	-48.05	-14	-12.31	0
59.5	-26.31	-48.06	-14	-12.31	0
59.6	-26.22	-47.97	-14	-12.22	0
59.7	-26.04	-47.78	-14	-12.04	0
59.8	-25.78	-47.53	-14	-11.78	0
59.9	-25.47	-47.21	-14	-11.47	0
60.0	-25.12	-46.86	-14	-11.12	0
60.1	-24.74	-46.49	-14	-10.74	0
60.2	-24.36	-46.11	-14	-10.36	0
60.3	-23.98	-45.73	-14	-9.98	0
60.4	-23.60	-45.35	-14	-9.60	0
60.5	-23.24	-44.99	-14	-9.24	0
60.6	-22.89	-44.64	-14	-8.89	0
60.7	-22.56	-44.31	-14	-8.56	0
60.8	-22.25	-44.00	-14	-8.25	0
60.9	-21.96	-43.71	-14	-7.96	0
61.0	-21.69	-43.43	-14	-7.69	0
61.1	-21.43	-43.18	-14	-7.43	0
61.2	-21.20	-42.95	-14	-7.20	0
61.3	-20.98	-42.73	-14	-6.98	0
61.4	-20.79	-42.54	-14	-6.79	0
61.5	-20.61	-42.36	-14	-6.61	0
61.6	-20.45	-42.19	-14	-6.45	0
61.7	-20.30	-42.05	-14	-6.30	0
61.8	-20.17	-41.92	-14	-6.17	0
61.9	-20.06	-41.80	-14	-6.06	0
62.0	-19.96	-41.70	-14	-5.96	0
62.1	-19.87	-41.62	-14	-5.87	0
62.2	-19.80	-41.54	-14	-5.80	0
62.3	-19.74	-41.48	-14	-5.74	0
62.4	-19.69	-41.44	-14	-5.69	0
62.5	-19.65	-41.40	-14	-5.65	0
62.6	-19.63	-41.37	-14	-5.63	0
62.7	-19.61	-41.36	-14	-5.61	0
62.8	-19.61	-41.36	-14	-5.61	0
62.9	-19.62	-41.36	-14	-5.62	0
63.0	-19.63	-41.38	-14	-5.63	0
63.1	-19.66	-41.40	-14	-5.66	0
63.2	-19.69	-41.44	-14	-5.69	0
63.3	-19.73	-41.48	-14	-5.73	0
63.4	-19.78	-41.52	-14	-5.78	0
63.5	-19.83	-41.58	-14	-5.83	0
63.6	-19.89	-41.64	-14	-5.89	0
63.7	-19.96	-41.71	-14	-5.96	0
63.8	-20.04	-41.78	-14	-6.04	0
63.9	-20.11	-41.86	-14	-6.11	0
64.0	-20.20	-41.95	-14	-6.20	0
64.1	-20.29	-42.03	-14	-6.29	0

64.2	-20.38	-42.13	-14	-6.38	0
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64.4	-20.57	-42.32	-14	-6.57	0
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64.7	-20.88	-42.63	-14	-6.88	0
64.8	-20.98	-42.73	-14	-6.98	0
64.9	-21.09	-42.84	-14	-7.09	0
65.0	-21.20	-42.95	-14	-7.20	0
65.1	-21.30	-43.05	-14	-7.30	0
65.2	-21.41	-43.16	-14	-7.41	0
65.3	-21.52	-43.26	-14	-7.52	0
65.4	-21.62	-43.37	-14	-7.62	0
65.5	-21.72	-43.47	-14	-7.72	0
65.6	-21.82	-43.57	-14	-7.82	0
65.7	-21.92	-43.67	-14	-7.92	0
65.8	-22.02	-43.77	-14	-8.02	0
65.9	-22.11	-43.86	-14	-8.11	0
66.0	-22.21	-43.95	-14	-8.21	0
66.1	-22.29	-44.04	-14	-8.29	0
66.2	-22.38	-44.13	-14	-8.38	0
66.3	-22.46	-44.21	-14	-8.46	0
66.4	-22.54	-44.29	-14	-8.54	0
66.5	-22.62	-44.37	-14	-8.62	0
66.6	-22.69	-44.44	-14	-8.69	0
66.7	-22.76	-44.51	-14	-8.76	0
66.8	-22.82	-44.57	-14	-8.82	0
66.9	-22.88	-44.63	-14	-8.88	0
67.0	-22.94	-44.69	-14	-8.94	0
67.1	-22.99	-44.74	-14	-8.99	0
67.2	-23.04	-44.78	-14	-9.04	0
67.3	-23.08	-44.83	-14	-9.08	0
67.4	-23.12	-44.86	-14	-9.12	0
67.5	-23.15	-44.89	-14	-9.15	0
67.6	-23.17	-44.92	-14	-9.17	0
67.7	-23.19	-44.94	-14	-9.19	0
67.8	-23.21	-44.95	-14	-9.21	0
67.9	-23.21	-44.96	-14	-9.21	0
68.0	-23.21	-44.96	-14	-9.21	0
68.1	-23.21	-44.95	-14	-9.21	0
68.2	-23.19	-44.94	-14	-9.19	0
68.3	-23.17	-44.92	-14	-9.17	0
68.4	-23.14	-44.89	-14	-9.14	0
68.5	-23.11	-44.85	-14	-9.11	0
68.6	-23.06	-44.81	-14	-9.06	0
68.7	-23.01	-44.76	-14	-9.01	0
68.8	-22.95	-44.69	-14	-8.95	0
68.9	-22.88	-44.62	-14	-8.88	0
69.0	-22.80	-44.55	-14	-8.80	0
69.1	-22.71	-44.46	-14	-8.71	0

69.2	-22.62	-44.37	-14	-8.62	0
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69.4	-22.41	-44.16	-14	-8.41	0
69.5	-22.29	-44.04	-14	-8.29	0
69.6	-22.17	-43.92	-14	-8.17	0
69.7	-22.04	-43.79	-14	-8.04	0
69.8	-21.91	-43.65	-14	-7.91	0
69.9	-21.76	-43.51	-14	-7.76	0
70.0	-21.62	-43.36	-14	-7.62	0
70.1	-21.46	-43.21	-14	-7.46	0
70.2	-21.31	-43.05	-14	-7.31	0
70.3	-21.15	-42.89	-14	-7.15	0
70.4	-20.98	-42.73	-14	-6.98	0
70.5	-20.81	-42.56	-14	-6.81	0
70.6	-20.64	-42.39	-14	-6.64	0
70.7	-20.47	-42.21	-14	-6.47	0
70.8	-20.29	-42.04	-14	-6.29	0
70.9	-20.11	-41.86	-14	-6.11	0
71.0	-19.93	-41.68	-14	-5.93	0
71.1	-19.75	-41.49	-14	-5.75	0
71.2	-19.56	-41.31	-14	-5.56	0
71.3	-19.38	-41.13	-14	-5.38	0
71.4	-19.20	-40.94	-14	-5.20	0
71.5	-19.01	-40.76	-14	-5.01	0
71.6	-18.83	-40.57	-14	-4.83	0
71.7	-18.64	-40.39	-14	-4.64	0
71.8	-18.46	-40.20	-14	-4.46	0
71.9	-18.27	-40.02	-14	-4.27	0
72.0	-18.09	-39.84	-14	-4.09	0
72.1	-17.90	-39.65	-14	-3.90	0
72.2	-17.72	-39.47	-14	-3.72	0
72.3	-17.54	-39.29	-14	-3.54	0
72.4	-17.36	-39.11	-14	-3.36	0
72.5	-17.18	-38.93	-14	-3.18	0
72.6	-17.00	-38.75	-14	-3.00	0
72.7	-16.83	-38.58	-14	-2.83	0
72.8	-16.65	-38.40	-14	-2.65	0
72.9	-16.48	-38.23	-14	-2.48	0
73.0	-16.31	-38.06	-14	-2.31	0
73.1	-16.14	-37.89	-14	-2.14	0
73.2	-15.97	-37.72	-14	-1.97	0
73.3	-15.81	-37.56	-14	-1.81	0
73.4	-15.64	-37.39	-14	-1.64	0
73.5	-15.48	-37.23	-14	-1.48	0
73.6	-15.32	-37.07	-14	-1.32	0
73.7	-15.17	-36.91	-14	-1.17	0
73.8	-15.01	-36.76	-14	-1.01	0
73.9	-14.86	-36.61	-14	-0.86	0
74.0	-14.71	-36.46	-14	-0.71	0
74.1	-14.56	-36.31	-14	-0.56	0

74.2	-14.42	-36.16	-14	-0.42	0
74.3	-14.27	-36.02	-14	-0.27	0
74.4	-14.13	-35.88	-14	-0.13	0
74.5	-14.00	-35.74	-14	0.00	0
74.6	-13.86	-35.61	-14	0.14	0
74.7	-13.73	-35.48	-14	0.27	0
74.8	-13.60	-35.35	-14	0.40	0
74.9	-13.47	-35.22	-14	0.53	0
75.0	-13.35	-35.10	-14	0.65	0
75.1	-13.23	-34.97	-14	0.77	0
75.2	-13.11	-34.86	-14	0.89	0
75.3	-12.99	-34.74	-14	1.01	0
75.4	-12.88	-34.63	-14	1.12	0
75.5	-12.77	-34.52	-14	1.23	0
75.6	-12.67	-34.41	-14	1.33	0
75.7	-12.56	-34.31	-14	1.44	0
75.8	-12.46	-34.21	-14	1.54	0
75.9	-12.36	-34.11	-14	1.64	0
76.0	-12.27	-34.02	-14	1.73	0
76.1	-12.18	-33.93	-14	1.82	0
76.2	-12.09	-33.84	-14	1.91	0
76.3	-12.00	-33.75	-14	2.00	0
76.4	-11.92	-33.67	-14	2.08	0
76.5	-11.84	-33.59	-14	2.16	0
76.6	-11.77	-33.51	-14	2.23	0
76.7	-11.69	-33.44	-14	2.31	0
76.8	-11.62	-33.37	-14	2.38	0
76.9	-11.56	-33.31	-14	2.44	0
77.0	-11.49	-33.24	-14	2.51	0
77.1	-11.43	-33.18	-14	2.57	0
77.2	-11.38	-33.12	-14	2.62	0
77.3	-11.32	-33.07	-14	2.68	0
77.4	-11.27	-33.02	-14	2.73	0
77.5	-11.22	-32.97	-14	2.78	0
77.6	-11.18	-32.92	-14	2.82	0
77.7	-11.14	-32.88	-14	2.86	0
77.8	-11.10	-32.84	-14	2.90	0
77.9	-11.06	-32.81	-14	2.94	0
78.0	-11.03	-32.78	-14	2.97	0
78.1	-11.00	-32.75	-14	3.00	0
78.2	-10.97	-32.72	-14	3.03	0
78.3	-10.95	-32.70	-14	3.05	0
78.4	-10.93	-32.67	-14	3.07	0
78.5	-10.91	-32.66	-14	3.09	0
78.6	-10.89	-32.64	-14	3.11	0
78.7	-10.88	-32.63	-14	3.12	0
78.8	-10.87	-32.62	-14	3.13	0
78.9	-10.87	-32.61	-14	3.13	0
79.0	-10.86	-32.61	-14	3.14	0
79.1	-10.86	-32.61	-14	3.14	0

79.2	-10.87	-32.61	-14	3.13	0
79.3	-10.87	-32.62	-14	3.13	0
79.4	-10.88	-32.63	-14	3.12	0
79.5	-10.89	-32.64	-14	3.11	0
79.6	-10.90	-32.65	-14	3.10	0
79.7	-10.92	-32.67	-14	3.08	0
79.8	-10.94	-32.69	-14	3.06	0
79.9	-10.96	-32.71	-14	3.04	0
80.0	-10.98	-32.73	-14	3.02	0
80.1	-11.01	-32.76	-14	2.99	0
80.2	-11.04	-32.79	-14	2.96	0
80.3	-11.07	-32.82	-14	2.93	0
80.4	-11.10	-32.85	-14	2.90	0
80.5	-11.14	-32.89	-14	2.86	0
80.6	-11.18	-32.93	-14	2.82	0
80.7	-11.22	-32.97	-14	2.78	0
80.8	-11.26	-33.01	-14	2.74	0
80.9	-11.31	-33.05	-14	2.69	0
81.0	-11.35	-33.10	-14	2.65	0
81.1	-11.40	-33.15	-14	2.60	0
81.2	-11.45	-33.20	-14	2.55	0
81.3	-11.50	-33.25	-14	2.50	0
81.4	-11.56	-33.30	-14	2.44	0
81.5	-11.61	-33.36	-14	2.39	0
81.6	-11.67	-33.42	-14	2.33	0
81.7	-11.73	-33.47	-14	2.27	0
81.8	-11.78	-33.53	-14	2.22	0
81.9	-11.85	-33.59	-14	2.15	0
82.0	-11.91	-33.65	-14	2.09	0
82.1	-11.97	-33.72	-14	2.03	0
82.2	-12.03	-33.78	-14	1.97	0
82.3	-12.10	-33.84	-14	1.90	0
82.4	-12.16	-33.91	-14	1.84	0
82.5	-12.22	-33.97	-14	1.78	0
82.6	-12.29	-34.04	-14	1.71	0
82.7	-12.35	-34.10	-14	1.65	0
82.8	-12.42	-34.17	-14	1.58	0
82.9	-12.48	-34.23	-14	1.52	0
83.0	-12.55	-34.29	-14	1.45	0
83.1	-12.61	-34.36	-14	1.39	0
83.2	-12.67	-34.42	-14	1.33	0
83.3	-12.74	-34.48	-14	1.26	0
83.4	-12.80	-34.55	-14	1.20	0
83.5	-12.86	-34.61	-14	1.14	0
83.6	-12.92	-34.66	-14	1.08	0
83.7	-12.97	-34.72	-14	1.03	0
83.8	-13.03	-34.78	-14	0.97	0
83.9	-13.09	-34.83	-14	0.91	0
84.0	-13.14	-34.89	-14	0.86	0
84.1	-13.19	-34.94	-14	0.81	0

84.2	-13.24	-34.99	-14	0.76	0
84.3	-13.28	-35.03	-14	0.72	0
84.4	-13.33	-35.08	-14	0.67	0
84.5	-13.37	-35.12	-14	0.63	0
84.6	-13.41	-35.16	-14	0.59	0
84.7	-13.45	-35.20	-14	0.55	0
84.8	-13.48	-35.23	-14	0.52	0
84.9	-13.52	-35.26	-14	0.48	0
85.0	-13.55	-35.29	-14	0.45	0
85.1	-13.57	-35.32	-14	0.43	0
85.2	-13.60	-35.35	-14	0.40	0
85.3	-13.62	-35.37	-14	0.38	0
85.4	-13.64	-35.39	-14	0.36	0
85.5	-13.66	-35.41	-14	0.34	0
85.6	-13.68	-35.43	-14	0.32	0
85.7	-13.69	-35.44	-14	0.31	0
85.8	-13.70	-35.45	-14	0.30	0
85.9	-13.71	-35.46	-14	0.29	0
86.0	-13.72	-35.47	-14	0.28	0
86.1	-13.73	-35.48	-14	0.27	0
86.2	-13.74	-35.48	-14	0.26	0
86.3	-13.74	-35.49	-14	0.26	0
86.4	-13.74	-35.49	-14	0.26	0
86.5	-13.74	-35.49	-14	0.26	0
86.6	-13.75	-35.49	-14	0.25	0
86.7	-13.75	-35.49	-14	0.25	0
86.8	-13.75	-35.49	-14	0.25	0
86.9	-13.75	-35.49	-14	0.25	0
87.0	-13.74	-35.49	-14	0.26	0
87.1	-13.74	-35.49	-14	0.26	0
87.2	-13.74	-35.49	-14	0.26	0
87.3	-13.74	-35.49	-14	0.26	0
87.4	-13.74	-35.49	-14	0.26	0
87.5	-13.74	-35.49	-14	0.26	0
87.6	-13.75	-35.49	-14	0.25	0
87.7	-13.75	-35.49	-14	0.25	0
87.8	-13.75	-35.50	-14	0.25	0
87.9	-13.76	-35.50	-14	0.24	0
88.0	-13.76	-35.51	-14	0.24	0
88.1	-13.77	-35.52	-14	0.23	0
88.2	-13.78	-35.53	-14	0.22	0
88.3	-13.79	-35.54	-14	0.21	0
88.4	-13.80	-35.55	-14	0.20	0
88.5	-13.82	-35.56	-14	0.18	0
88.6	-13.83	-35.58	-14	0.17	0
88.7	-13.85	-35.60	-14	0.15	0
88.8	-13.87	-35.62	-14	0.13	0
88.9	-13.90	-35.65	-14	0.10	0
89.0	-13.92	-35.67	-14	0.08	0
89.1	-13.95	-35.70	-14	0.05	0

89.2	-13.98	-35.73	-14	0.02	0
89.3	-14.02	-35.77	-14	-0.02	0
89.4	-14.06	-35.80	-14	-0.06	0
89.5	-14.10	-35.84	-14	-0.10	0
89.6	-14.14	-35.89	-14	-0.14	0
89.7	-14.19	-35.93	-14	-0.19	0
89.8	-14.24	-35.98	-14	-0.24	0
89.9	-14.29	-36.04	-14	-0.29	0
90.0	-14.34	-36.09	-14	-0.34	0
90.1	-14.40	-36.15	-14	-0.40	0
90.2	-14.47	-36.21	-14	-0.47	0
90.3	-14.53	-36.28	-14	-0.53	0
90.4	-14.60	-36.35	-14	-0.60	0
90.5	-14.67	-36.42	-14	-0.67	0
90.6	-14.75	-36.50	-14	-0.75	0
90.7	-14.83	-36.58	-14	-0.83	0
90.8	-14.91	-36.66	-14	-0.91	0
90.9	-15.00	-36.75	-14	-1.00	0
91.0	-15.09	-36.84	-14	-1.09	0
91.1	-15.18	-36.93	-14	-1.18	0
91.2	-15.28	-37.03	-14	-1.28	0
91.3	-15.38	-37.13	-14	-1.38	0
91.4	-15.49	-37.23	-14	-1.49	0
91.5	-15.59	-37.34	-14	-1.59	0
91.6	-15.70	-37.45	-14	-1.70	0
91.7	-15.82	-37.56	-14	-1.82	0
91.8	-15.93	-37.68	-14	-1.93	0
91.9	-16.05	-37.80	-14	-2.05	0
92.0	-16.17	-37.92	-14	-2.17	0
92.1	-16.30	-38.05	-14	-2.30	0
92.2	-16.43	-38.17	-14	-2.43	0
92.3	-16.56	-38.30	-14	-2.56	0
92.4	-16.69	-38.43	-14	-2.69	0
92.5	-16.82	-38.57	-14	-2.82	0
92.6	-16.95	-38.70	-14	-2.95	0
92.7	-17.09	-38.84	-14	-3.09	0
92.8	-17.22	-38.97	-14	-3.22	0
92.9	-17.36	-39.11	-14	-3.36	0
93.0	-17.49	-39.24	-14	-3.49	0
93.1	-17.63	-39.38	-14	-3.63	0
93.2	-17.76	-39.51	-14	-3.76	0
93.3	-17.89	-39.64	-14	-3.89	0
93.4	-18.02	-39.77	-14	-4.02	0
93.5	-18.14	-39.89	-14	-4.14	0
93.6	-18.26	-40.01	-14	-4.26	0
93.7	-18.38	-40.13	-14	-4.38	0
93.8	-18.49	-40.24	-14	-4.49	0
93.9	-18.60	-40.34	-14	-4.60	0
94.0	-18.69	-40.44	-14	-4.69	0
94.1	-18.78	-40.53	-14	-4.78	0

94.2	-18.87	-40.61	-14	-4.87	0
94.3	-18.94	-40.69	-14	-4.94	0
94.4	-19.01	-40.75	-14	-5.01	0
94.5	-19.06	-40.81	-14	-5.06	0
94.6	-19.11	-40.86	-14	-5.11	0
94.7	-19.14	-40.89	-14	-5.14	0
94.8	-19.17	-40.92	-14	-5.17	0
94.9	-19.19	-40.93	-14	-5.19	0
95.0	-19.19	-40.94	-14	-5.19	0
95.1	-19.19	-40.94	-14	-5.19	0
95.2	-19.18	-40.93	-14	-5.18	0
95.3	-19.16	-40.91	-14	-5.16	0
95.4	-19.13	-40.88	-14	-5.13	0
95.5	-19.09	-40.84	-14	-5.09	0
95.6	-19.05	-40.80	-14	-5.05	0
95.7	-19.00	-40.75	-14	-5.00	0
95.8	-18.95	-40.69	-14	-4.95	0
95.9	-18.89	-40.63	-14	-4.89	0
96.0	-18.82	-40.57	-14	-4.82	0
96.1	-18.76	-40.50	-14	-4.76	0
96.2	-18.69	-40.43	-14	-4.69	0
96.3	-18.61	-40.36	-14	-4.61	0
96.4	-18.54	-40.29	-14	-4.54	0
96.5	-18.47	-40.22	-14	-4.47	0
96.6	-18.39	-40.14	-14	-4.39	0
96.7	-18.32	-40.07	-14	-4.32	0
96.8	-18.25	-40.00	-14	-4.25	0
96.9	-18.18	-39.93	-14	-4.18	0
97.0	-18.11	-39.86	-14	-4.11	0
97.1	-18.05	-39.80	-14	-4.05	0
97.2	-17.99	-39.73	-14	-3.99	0
97.3	-17.93	-39.67	-14	-3.93	0
97.4	-17.87	-39.62	-14	-3.87	0
97.5	-17.82	-39.57	-14	-3.82	0
97.6	-17.77	-39.52	-14	-3.77	0
97.7	-17.73	-39.48	-14	-3.73	0
97.8	-17.69	-39.44	-14	-3.69	0
97.9	-17.66	-39.41	-14	-3.66	0
98.0	-17.63	-39.38	-14	-3.63	0
98.1	-17.61	-39.36	-14	-3.61	0
98.2	-17.60	-39.34	-14	-3.60	0
98.3	-17.59	-39.33	-14	-3.59	0
98.4	-17.58	-39.33	-14	-3.58	0
98.5	-17.58	-39.33	-14	-3.58	0
98.6	-17.59	-39.34	-14	-3.59	0
98.7	-17.60	-39.35	-14	-3.60	0
98.8	-17.62	-39.37	-14	-3.62	0
98.9	-17.65	-39.40	-14	-3.65	0
99.0	-17.68	-39.43	-14	-3.68	0
99.1	-17.72	-39.47	-14	-3.72	0

99.2	-17.77	-39.52	-14	-3.77	0
99.3	-17.82	-39.57	-14	-3.82	0
99.4	-17.88	-39.63	-14	-3.88	0
99.5	-17.95	-39.70	-14	-3.95	0
99.6	-18.03	-39.78	-14	-4.03	0
99.7	-18.11	-39.86	-14	-4.11	0
99.8	-18.20	-39.95	-14	-4.20	0
99.9	-18.30	-40.04	-14	-4.30	0
100.0	-18.40	-40.15	-14	-4.40	0
100.1	-18.51	-40.26	-14	-4.51	0
100.2	-18.63	-40.38	-14	-4.63	0
100.3	-18.76	-40.51	-14	-4.76	0
100.4	-18.90	-40.64	-14	-4.90	0
100.5	-19.04	-40.79	-14	-5.04	0
100.6	-19.19	-40.94	-14	-5.19	0
100.7	-19.35	-41.09	-14	-5.35	0
100.8	-19.51	-41.26	-14	-5.51	0
100.9	-19.68	-41.43	-14	-5.68	0
101.0	-19.86	-41.61	-14	-5.86	0
101.1	-20.05	-41.80	-14	-6.05	0
101.2	-20.24	-41.99	-14	-6.24	0
101.3	-20.44	-42.19	-14	-6.44	0
101.4	-20.64	-42.39	-14	-6.64	0
101.5	-20.85	-42.60	-14	-6.85	0
101.6	-21.06	-42.81	-14	-7.06	0
101.7	-21.28	-43.03	-14	-7.28	0
101.8	-21.50	-43.24	-14	-7.50	0
101.9	-21.71	-43.46	-14	-7.71	0
102.0	-21.93	-43.68	-14	-7.93	0
102.1	-22.14	-43.89	-14	-8.14	0
102.2	-22.35	-44.10	-14	-8.35	0
102.3	-22.55	-44.30	-14	-8.55	0
102.4	-22.74	-44.49	-14	-8.74	0
102.5	-22.92	-44.67	-14	-8.92	0
102.6	-23.09	-44.84	-14	-9.09	0
102.7	-23.24	-44.99	-14	-9.24	0
102.8	-23.37	-45.11	-14	-9.37	0
102.9	-23.47	-45.22	-14	-9.47	0
103.0	-23.56	-45.30	-14	-9.56	0
103.1	-23.61	-45.36	-14	-9.61	0
103.2	-23.64	-45.39	-14	-9.64	0
103.3	-23.65	-45.40	-14	-9.65	0
103.4	-23.63	-45.37	-14	-9.63	0
103.5	-23.58	-45.33	-14	-9.58	0
103.6	-23.51	-45.26	-14	-9.51	0
103.7	-23.42	-45.16	-14	-9.42	0
103.8	-23.31	-45.05	-14	-9.31	0
103.9	-23.18	-44.93	-14	-9.18	0
104.0	-23.04	-44.78	-14	-9.04	0
104.1	-22.88	-44.63	-14	-8.88	0

104.2	-22.72	-44.47	-14	-8.72	0
104.3	-22.56	-44.30	-14	-8.56	0
104.4	-22.38	-44.13	-14	-8.38	0
104.5	-22.21	-43.96	-14	-8.21	0
104.6	-22.04	-43.78	-14	-8.04	0
104.7	-21.87	-43.61	-14	-7.87	0
104.8	-21.70	-43.44	-14	-7.70	0
104.9	-21.53	-43.28	-14	-7.53	0
105.0	-21.37	-43.12	-14	-7.37	0
105.1	-21.22	-42.97	-14	-7.22	0
105.2	-21.07	-42.82	-14	-7.07	0
105.3	-20.93	-42.68	-14	-6.93	0
105.4	-20.80	-42.55	-14	-6.80	0
105.5	-20.68	-42.43	-14	-6.68	0
105.6	-20.56	-42.31	-14	-6.56	0
105.7	-20.46	-42.21	-14	-6.46	0
105.8	-20.36	-42.11	-14	-6.36	0
105.9	-20.28	-42.02	-14	-6.28	0
106.0	-20.20	-41.95	-14	-6.20	0
106.1	-20.13	-41.88	-14	-6.13	0
106.2	-20.08	-41.82	-14	-6.08	0
106.3	-20.03	-41.78	-14	-6.03	0
106.4	-19.99	-41.74	-14	-5.99	0
106.5	-19.97	-41.71	-14	-5.97	0
106.6	-19.95	-41.70	-14	-5.95	0
106.7	-19.95	-41.69	-14	-5.95	0
106.8	-19.95	-41.70	-14	-5.95	0
106.9	-19.97	-41.71	-14	-5.97	0
107.0	-19.99	-41.74	-14	-5.99	0
107.1	-20.03	-41.78	-14	-6.03	0
107.2	-20.08	-41.83	-14	-6.08	0
107.3	-20.14	-41.89	-14	-6.14	0
107.4	-20.21	-41.96	-14	-6.21	0
107.5	-20.29	-42.04	-14	-6.29	0
107.6	-20.38	-42.13	-14	-6.38	0
107.7	-20.49	-42.24	-14	-6.49	0
107.8	-20.60	-42.35	-14	-6.60	0
107.9	-20.73	-42.48	-14	-6.73	0
108.0	-20.87	-42.62	-14	-6.87	0
108.1	-21.02	-42.77	-14	-7.02	0
108.2	-21.19	-42.93	-14	-7.19	0
108.3	-21.36	-43.11	-14	-7.36	0
108.4	-21.55	-43.29	-14	-7.55	0
108.5	-21.74	-43.49	-14	-7.74	0
108.6	-21.95	-43.70	-14	-7.95	0
108.7	-22.17	-43.92	-14	-8.17	0
108.8	-22.40	-44.15	-14	-8.40	0
108.9	-22.64	-44.39	-14	-8.64	0
109.0	-22.89	-44.64	-14	-8.89	0
109.1	-23.15	-44.89	-14	-9.15	0

109.2	-23.41	-45.16	-14	-9.41	0
109.3	-23.68	-45.43	-14	-9.68	0
109.4	-23.95	-45.70	-14	-9.95	0
109.5	-24.22	-45.97	-14	-10.22	0
109.6	-24.49	-46.24	-14	-10.49	0
109.7	-24.75	-46.50	-14	-10.75	0
109.8	-25.00	-46.75	-14	-11.00	0
109.9	-25.24	-46.99	-14	-11.24	0
110.0	-25.46	-47.21	-14	-11.46	0
110.1	-25.65	-47.40	-14	-11.65	0
110.2	-25.81	-47.56	-14	-11.81	0
110.3	-25.94	-47.68	-14	-11.94	0
110.4	-26.02	-47.77	-14	-12.02	0
110.5	-26.07	-47.82	-14	-12.07	0
110.6	-26.08	-47.82	-14	-12.08	0
110.7	-26.04	-47.79	-14	-12.04	0
110.8	-25.96	-47.71	-14	-11.96	0
110.9	-25.85	-47.60	-14	-11.85	0
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111.2	-25.35	-47.09	-14	-11.35	0
111.3	-25.14	-46.89	-14	-11.14	0
111.4	-24.92	-46.67	-14	-10.92	0
111.5	-24.69	-46.44	-14	-10.69	0
111.6	-24.46	-46.21	-14	-10.46	0
111.7	-24.23	-45.98	-14	-10.23	0
111.8	-24.00	-45.75	-14	-10.00	0
111.9	-23.78	-45.53	-14	-9.78	0
112.0	-23.56	-45.31	-14	-9.56	0
112.1	-23.36	-45.10	-14	-9.36	0
112.2	-23.16	-44.91	-14	-9.16	0
112.3	-22.98	-44.72	-14	-8.98	0
112.4	-22.80	-44.55	-14	-8.80	0
112.5	-22.64	-44.39	-14	-8.64	0
112.6	-22.49	-44.24	-14	-8.49	0
112.7	-22.36	-44.11	-14	-8.36	0
112.8	-22.24	-43.99	-14	-8.24	0
112.9	-22.13	-43.88	-14	-8.13	0
113.0	-22.04	-43.79	-14	-8.04	0
113.1	-21.96	-43.71	-14	-7.96	0
113.2	-21.90	-43.64	-14	-7.90	0
113.3	-21.85	-43.59	-14	-7.85	0
113.4	-21.81	-43.56	-14	-7.81	0
113.5	-21.79	-43.54	-14	-7.79	0
113.6	-21.78	-43.53	-14	-7.78	0
113.7	-21.79	-43.54	-14	-7.79	0
113.8	-21.81	-43.56	-14	-7.81	0
113.9	-21.85	-43.59	-14	-7.85	0
114.0	-21.90	-43.65	-14	-7.90	0
114.1	-21.96	-43.71	-14	-7.96	0

114.2	-22.04	-43.79	-14	-8.04	0
114.3	-22.14	-43.88	-14	-8.14	0
114.4	-22.24	-43.99	-14	-8.24	0
114.5	-22.37	-44.11	-14	-8.37	0
114.6	-22.50	-44.25	-14	-8.50	0
114.7	-22.65	-44.40	-14	-8.65	0
114.8	-22.82	-44.56	-14	-8.82	0
114.9	-22.99	-44.74	-14	-8.99	0
115.0	-23.18	-44.93	-14	-9.18	0
115.1	-23.38	-45.13	-14	-9.38	0
115.2	-23.59	-45.34	-14	-9.59	0
115.3	-23.81	-45.56	-14	-9.81	0
115.4	-24.04	-45.78	-14	-10.04	0
115.5	-24.27	-46.02	-14	-10.27	0
115.6	-24.50	-46.25	-14	-10.50	0
115.7	-24.74	-46.49	-14	-10.74	0
115.8	-24.97	-46.72	-14	-10.97	0
115.9	-25.20	-46.94	-14	-11.20	0
116.0	-25.41	-47.16	-14	-11.41	0
116.1	-25.61	-47.36	-14	-11.61	0
116.2	-25.79	-47.53	-14	-11.79	0
116.3	-25.94	-47.69	-14	-11.94	0
116.4	-26.06	-47.81	-14	-12.06	0
116.5	-26.15	-47.90	-14	-12.15	0
116.6	-26.21	-47.96	-14	-12.21	0
116.7	-26.23	-47.97	-14	-12.23	0
116.8	-26.21	-47.96	-14	-12.21	0
116.9	-26.16	-47.90	-14	-12.16	0
117.0	-26.07	-47.82	-14	-12.07	0
117.1	-25.96	-47.70	-14	-11.96	0
117.2	-25.82	-47.56	-14	-11.82	0
117.3	-25.66	-47.41	-14	-11.66	0
117.4	-25.49	-47.24	-14	-11.49	0
117.5	-25.31	-47.05	-14	-11.31	0
117.6	-25.12	-46.87	-14	-11.12	0
117.7	-24.93	-46.68	-14	-10.93	0
117.8	-24.75	-46.49	-14	-10.75	0
117.9	-24.57	-46.31	-14	-10.57	0
118.0	-24.39	-46.14	-14	-10.39	0
118.1	-24.23	-45.98	-14	-10.23	0
118.2	-24.08	-45.83	-14	-10.08	0
118.3	-23.95	-45.69	-14	-9.95	0
118.4	-23.83	-45.57	-14	-9.83	0
118.5	-23.72	-45.47	-14	-9.72	0
118.6	-23.63	-45.38	-14	-9.63	0
118.7	-23.56	-45.31	-14	-9.56	0
118.8	-23.51	-45.25	-14	-9.51	0
118.9	-23.47	-45.22	-14	-9.47	0
119.0	-23.46	-45.20	-14	-9.46	0
119.1	-23.46	-45.21	-14	-9.46	0

119.2	-23.49	-45.23	-14	-9.49	0
119.3	-23.53	-45.28	-14	-9.53	0
119.4	-23.59	-45.34	-14	-9.59	0
119.5	-23.68	-45.43	-14	-9.68	0
119.6	-23.79	-45.53	-14	-9.79	0
119.7	-23.91	-45.66	-14	-9.91	0
119.8	-24.06	-45.81	-14	-10.06	0
119.9	-24.23	-45.98	-14	-10.23	0
120.0	-24.42	-46.17	-14	-10.42	0
120.1	-24.63	-46.38	-14	-10.63	0
120.2	-24.86	-46.61	-14	-10.86	0
120.3	-25.10	-46.85	-14	-11.10	0
120.4	-25.36	-47.11	-14	-11.36	0
120.5	-25.63	-47.38	-14	-11.63	0
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120.8	-26.47	-48.22	-14	-12.47	0
120.9	-26.73	-48.48	-14	-12.73	0
121.0	-26.97	-48.72	-14	-12.97	0
121.1	-27.18	-48.93	-14	-13.18	0
121.2	-27.35	-49.09	-14	-13.35	0
121.3	-27.46	-49.20	-14	-13.46	0
121.4	-27.50	-49.25	-14	-13.50	0
121.5	-27.48	-49.23	-14	-13.48	0
121.6	-27.39	-49.14	-14	-13.39	0
121.7	-27.24	-48.99	-14	-13.24	0
121.8	-27.03	-48.77	-14	-13.03	0
121.9	-26.76	-48.51	-14	-12.76	0
122.0	-26.46	-48.21	-14	-12.46	0
122.1	-26.14	-47.88	-14	-12.14	0
122.2	-25.79	-47.54	-14	-11.79	0
122.3	-25.44	-47.19	-14	-11.44	0
122.4	-25.09	-46.84	-14	-11.09	0
122.5	-24.75	-46.50	-14	-10.75	0
122.6	-24.42	-46.17	-14	-10.42	0
122.7	-24.10	-45.85	-14	-10.10	0
122.8	-23.80	-45.55	-14	-9.80	0
122.9	-23.53	-45.27	-14	-9.53	0
123.0	-23.27	-45.02	-14	-9.27	0
123.1	-23.04	-44.79	-14	-9.04	0
123.2	-22.83	-44.58	-14	-8.83	0
123.3	-22.65	-44.39	-14	-8.65	0
123.4	-22.49	-44.24	-14	-8.49	0
123.5	-22.36	-44.11	-14	-8.36	0
123.6	-22.25	-44.00	-14	-8.25	0
123.7	-22.17	-43.92	-14	-8.17	0
123.8	-22.12	-43.87	-14	-8.12	0
123.9	-22.10	-43.85	-14	-8.10	0
124.0	-22.11	-43.86	-14	-8.11	0
124.1	-22.15	-43.89	-14	-8.15	0

124.2	-22.21	-43.96	-14	-8.21	0
124.3	-22.31	-44.06	-14	-8.31	0
124.4	-22.45	-44.19	-14	-8.45	0
124.5	-22.61	-44.36	-14	-8.61	0
124.6	-22.82	-44.57	-14	-8.82	0
124.7	-23.06	-44.81	-14	-9.06	0
124.8	-23.35	-45.10	-14	-9.35	0
124.9	-23.68	-45.43	-14	-9.68	0
125.0	-24.06	-45.81	-14	-10.06	0
125.1	-24.49	-46.24	-14	-10.49	0
125.2	-24.99	-46.73	-14	-10.99	0
125.3	-25.55	-47.29	-14	-11.55	0
125.4	-26.18	-47.93	-14	-12.18	0
125.5	-26.90	-48.65	-14	-12.90	0
125.6	-27.72	-49.47	-14	-13.72	0
125.7	-28.65	-50.40	-14	-14.65	0
125.8	-29.71	-51.46	-14	-15.71	0
125.9	-30.92	-52.67	-14	-16.92	0
126.0	-32.29	-54.04	-14	-18.29	0
126.1	-33.78	-55.52	-14	-19.78	0
126.2	-35.25	-57.00	-14	-21.25	0
126.3	-36.34	-58.09	-14	-22.34	0
126.4	-36.52	-58.27	-14	-22.52	0
126.5	-35.65	-57.40	-14	-21.65	0
126.6	-34.18	-55.93	-14	-20.18	0
126.7	-32.60	-54.34	-14	-18.60	0
126.8	-31.10	-52.84	-14	-17.10	0
126.9	-29.75	-51.49	-14	-15.75	0
127.0	-28.55	-50.30	-14	-14.55	0
127.1	-27.49	-49.24	-14	-13.49	0
127.2	-26.56	-48.30	-14	-12.56	0
127.3	-25.72	-47.47	-14	-11.72	0
127.4	-24.98	-46.73	-14	-10.98	0
127.5	-24.32	-46.07	-14	-10.32	0
127.6	-23.73	-45.48	-14	-9.73	0
127.7	-23.20	-44.95	-14	-9.20	0
127.8	-22.73	-44.48	-14	-8.73	0
127.9	-22.32	-44.06	-14	-8.32	0
128.0	-21.95	-43.69	-14	-7.95	0
128.1	-21.62	-43.37	-14	-7.62	0
128.2	-21.34	-43.09	-14	-7.34	0
128.3	-21.10	-42.85	-14	-7.10	0
128.4	-20.90	-42.65	-14	-6.90	0
128.5	-20.74	-42.48	-14	-6.74	0
128.6	-20.61	-42.36	-14	-6.61	0
128.7	-20.52	-42.26	-14	-6.52	0
128.8	-20.46	-42.21	-14	-6.46	0
128.9	-20.44	-42.18	-14	-6.44	0
129.0	-20.45	-42.20	-14	-6.45	0
129.1	-20.50	-42.24	-14	-6.50	0

129.2	-20.58	-42.32	-14	-6.58	0
129.3	-20.70	-42.44	-14	-6.70	0
129.4	-20.85	-42.60	-14	-6.85	0
129.5	-21.04	-42.79	-14	-7.04	0
129.6	-21.28	-43.03	-14	-7.28	0
129.7	-21.55	-43.30	-14	-7.55	0
129.8	-21.88	-43.62	-14	-7.88	0
129.9	-22.25	-43.99	-14	-8.25	0
130.0	-22.67	-44.41	-14	-8.67	0
130.1	-23.14	-44.89	-14	-9.14	0
130.2	-23.68	-45.43	-14	-9.68	0
130.3	-24.30	-46.04	-14	-10.30	0
130.4	-24.99	-46.73	-14	-10.99	0
130.5	-25.77	-47.52	-14	-11.77	0
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130.9	-30.26	-52.01	-14	-16.26	0
131.0	-31.91	-53.66	-14	-17.91	0
131.1	-33.91	-55.66	-14	-19.91	0
131.2	-36.37	-58.11	-14	-22.37	0
131.3	-39.23	-60.98	-14	-25.23	0
131.4	-41.44	-63.19	-14	-27.44	0
131.5	-40.62	-62.37	-14	-26.62	0
131.6	-37.91	-59.66	-14	-23.91	0
131.7	-35.33	-57.07	-14	-21.33	0
131.8	-33.22	-54.96	-14	-19.22	0
131.9	-31.51	-53.25	-14	-17.51	0
132.0	-30.10	-51.85	-14	-16.10	0
132.1	-28.92	-50.67	-14	-14.92	0
132.2	-27.93	-49.67	-14	-13.93	0
132.3	-27.08	-48.82	-14	-13.08	0
132.4	-26.34	-48.09	-14	-12.34	0
132.5	-25.71	-47.46	-14	-11.71	0
132.6	-25.17	-46.92	-14	-11.17	0
132.7	-24.70	-46.44	-14	-10.70	0
132.8	-24.29	-46.04	-14	-10.29	0
132.9	-23.95	-45.70	-14	-9.95	0
133.0	-23.66	-45.41	-14	-9.66	0
133.1	-23.42	-45.16	-14	-9.42	0
133.2	-23.22	-44.97	-14	-9.22	0
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133.5	-22.87	-44.62	-14	-8.87	0
133.6	-22.82	-44.57	-14	-8.82	0
133.7	-22.80	-44.55	-14	-8.80	0
133.8	-22.82	-44.56	-14	-8.82	0
133.9	-22.85	-44.60	-14	-8.85	0
134.0	-22.91	-44.66	-14	-8.91	0
134.1	-23.00	-44.74	-14	-9.00	0

134.2	-23.10	-44.84	-14	-9.10	0
134.3	-23.21	-44.96	-14	-9.21	0
134.4	-23.34	-45.08	-14	-9.34	0
134.5	-23.47	-45.22	-14	-9.47	0
134.6	-23.61	-45.36	-14	-9.61	0
134.7	-23.75	-45.50	-14	-9.75	0
134.8	-23.89	-45.64	-14	-9.89	0
134.9	-24.03	-45.77	-14	-10.03	0
135.0	-24.15	-45.90	-14	-10.15	0
135.1	-24.27	-46.02	-14	-10.27	0
135.2	-24.38	-46.12	-14	-10.38	0
135.3	-24.47	-46.22	-14	-10.47	0
135.4	-24.56	-46.31	-14	-10.56	0
135.5	-24.64	-46.38	-14	-10.64	0
135.6	-24.71	-46.46	-14	-10.71	0
135.7	-24.78	-46.53	-14	-10.78	0
135.8	-24.85	-46.60	-14	-10.85	0
135.9	-24.93	-46.68	-14	-10.93	0
136.0	-25.03	-46.77	-14	-11.03	0
136.1	-25.14	-46.88	-14	-11.14	0
136.2	-25.27	-47.02	-14	-11.27	0
136.3	-25.43	-47.18	-14	-11.43	0
136.4	-25.63	-47.38	-14	-11.63	0
136.5	-25.87	-47.62	-14	-11.87	0
136.6	-26.16	-47.91	-14	-12.16	0
136.7	-26.51	-48.25	-14	-12.51	0
136.8	-26.92	-48.66	-14	-12.92	0
136.9	-27.40	-49.15	-14	-13.40	0
137.0	-27.98	-49.73	-14	-13.98	0
137.1	-28.65	-50.40	-14	-14.65	0
137.2	-29.46	-51.20	-14	-15.46	0
137.3	-30.40	-52.15	-14	-16.40	0
137.4	-31.52	-53.27	-14	-17.52	0
137.5	-32.85	-54.60	-14	-18.85	0
137.6	-34.41	-56.16	-14	-20.41	0
137.7	-36.15	-57.90	-14	-22.15	0
137.8	-37.76	-59.51	-14	-23.76	0
137.9	-38.43	-60.18	-14	-24.43	0
138.0	-37.54	-59.28	-14	-23.54	0
138.1	-35.67	-57.42	-14	-21.67	0
138.2	-33.65	-55.40	-14	-19.65	0
138.3	-31.81	-53.56	-14	-17.81	0
138.4	-30.20	-51.95	-14	-16.20	0
138.5	-28.80	-50.55	-14	-14.80	0
138.6	-27.58	-49.33	-14	-13.58	0
138.7	-26.51	-48.26	-14	-12.51	0
138.8	-25.57	-47.32	-14	-11.57	0
138.9	-24.74	-46.49	-14	-10.74	0
139.0	-24.00	-45.75	-14	-10.00	0
139.1	-23.35	-45.10	-14	-9.35	0

139.2	-22.78	-44.52	-14	-8.78	0
139.3	-22.27	-44.02	-14	-8.27	0
139.4	-21.82	-43.57	-14	-7.82	0
139.5	-21.44	-43.19	-14	-7.44	0
139.6	-21.11	-42.86	-14	-7.11	0
139.7	-20.83	-42.58	-14	-6.83	0
139.8	-20.60	-42.35	-14	-6.60	0
139.9	-20.43	-42.17	-14	-6.43	0
140.0	-20.30	-42.04	-14	-6.30	0
140.1	-20.21	-41.96	-14	-6.21	0
140.2	-20.18	-41.92	-14	-6.18	0
140.3	-20.19	-41.94	-14	-6.19	0
140.4	-20.25	-42.00	-14	-6.25	0
140.5	-20.36	-42.10	-14	-6.36	0
140.6	-20.52	-42.26	-14	-6.52	0
140.7	-20.73	-42.48	-14	-6.73	0
140.8	-21.00	-42.75	-14	-7.00	0
140.9	-21.33	-43.08	-14	-7.33	0
141.0	-21.72	-43.47	-14	-7.72	0
141.1	-22.18	-43.93	-14	-8.18	0
141.2	-22.72	-44.47	-14	-8.72	0
141.3	-23.35	-45.10	-14	-9.35	0
141.4	-24.08	-45.82	-14	-10.08	0
141.5	-24.92	-46.67	-14	-10.92	0
141.6	-25.90	-47.65	-14	-11.90	0
141.7	-27.05	-48.80	-14	-13.05	0
141.8	-28.42	-50.17	-14	-14.42	0
141.9	-30.08	-51.82	-14	-16.08	0
142.0	-32.13	-53.88	-14	-18.13	0
142.1	-34.78	-56.53	-14	-20.78	0
142.2	-38.27	-60.01	-14	-24.27	0
142.3	-42.14	-63.89	-14	-28.14	0
142.4	-41.77	-63.52	-14	-27.77	0
142.5	-37.95	-59.70	-14	-23.95	0
142.6	-34.75	-56.50	-14	-20.75	0
142.7	-32.37	-54.11	-14	-18.37	0
142.8	-30.54	-52.28	-14	-16.54	0
142.9	-29.09	-50.84	-14	-15.09	0
143.0	-27.93	-49.68	-14	-13.93	0
143.1	-26.98	-48.73	-14	-12.98	0
143.2	-26.21	-47.96	-14	-12.21	0
143.3	-25.58	-47.33	-14	-11.58	0
143.4	-25.07	-46.82	-14	-11.07	0
143.5	-24.68	-46.43	-14	-10.68	0
143.6	-24.38	-46.13	-14	-10.38	0
143.7	-24.18	-45.92	-14	-10.18	0
143.8	-24.06	-45.81	-14	-10.06	0
143.9	-24.03	-45.77	-14	-10.03	0
144.0	-24.08	-45.82	-14	-10.08	0
144.1	-24.21	-45.96	-14	-10.21	0

144.2	-24.43	-46.17	-14	-10.43	0
144.3	-24.73	-46.48	-14	-10.73	0
144.4	-25.12	-46.87	-14	-11.12	0
144.5	-25.61	-47.35	-14	-11.61	0
144.6	-26.19	-47.94	-14	-12.19	0
144.7	-26.87	-48.62	-14	-12.87	0
144.8	-27.64	-49.39	-14	-13.64	0
144.9	-28.48	-50.23	-14	-14.48	0
145.0	-29.34	-51.09	-14	-15.34	0
145.1	-30.14	-51.88	-14	-16.14	0
145.2	-30.70	-52.45	-14	-16.70	0
145.3	-30.86	-52.61	-14	-16.86	0
145.4	-30.53	-52.28	-14	-16.53	0
145.5	-29.78	-51.53	-14	-15.78	0
145.6	-28.80	-50.54	-14	-14.80	0
145.7	-27.72	-49.47	-14	-13.72	0
145.8	-26.67	-48.41	-14	-12.67	0
145.9	-25.67	-47.42	-14	-11.67	0
146.0	-24.77	-46.52	-14	-10.77	0
146.1	-23.96	-45.70	-14	-9.96	0
146.2	-23.23	-44.98	-14	-9.23	0
146.3	-22.60	-44.34	-14	-8.60	0
146.4	-22.04	-43.79	-14	-8.04	0
146.5	-21.56	-43.31	-14	-7.56	0
146.6	-21.15	-42.90	-14	-7.15	0
146.7	-20.81	-42.56	-14	-6.81	0
146.8	-20.54	-42.29	-14	-6.54	0
146.9	-20.33	-42.08	-14	-6.33	0
147.0	-20.18	-41.93	-14	-6.18	0
147.1	-20.09	-41.84	-14	-6.09	0
147.2	-20.07	-41.81	-14	-6.07	0
147.3	-20.10	-41.85	-14	-6.10	0
147.4	-20.20	-41.94	-14	-6.20	0
147.5	-20.36	-42.10	-14	-6.36	0
147.6	-20.58	-42.33	-14	-6.58	0
147.7	-20.88	-42.62	-14	-6.88	0
147.8	-21.25	-42.99	-14	-7.25	0
147.9	-21.70	-43.45	-14	-7.70	0
148.0	-22.24	-43.98	-14	-8.24	0
148.1	-22.87	-44.62	-14	-8.87	0
148.2	-23.63	-45.37	-14	-9.63	0
148.3	-24.50	-46.25	-14	-10.50	0
148.4	-25.54	-47.28	-14	-11.54	0
148.5	-26.75	-48.50	-14	-12.75	0
148.6	-28.18	-49.93	-14	-14.18	0
148.7	-29.86	-51.61	-14	-15.86	0
148.8	-31.80	-53.55	-14	-17.80	0
148.9	-33.81	-55.56	-14	-19.81	0
149.0	-35.21	-56.96	-14	-21.21	0
149.1	-34.98	-56.73	-14	-20.98	0

149.2	-33.37	-55.11	-14	-19.37	0
149.3	-31.42	-53.16	-14	-17.42	0
149.4	-29.63	-51.38	-14	-15.63	0
149.5	-28.11	-49.86	-14	-14.11	0
149.6	-26.84	-48.59	-14	-12.84	0
149.7	-25.77	-47.52	-14	-11.77	0
149.8	-24.88	-46.62	-14	-10.88	0
149.9	-24.13	-45.87	-14	-10.13	0
150.0	-23.50	-45.25	-14	-9.50	0
150.1	-22.99	-44.73	-14	-8.99	0
150.2	-22.57	-44.32	-14	-8.57	0
150.3	-22.24	-43.98	-14	-8.24	0
150.4	-21.98	-43.73	-14	-7.98	0
150.5	-21.80	-43.55	-14	-7.80	0
150.6	-21.69	-43.43	-14	-7.69	0
150.7	-21.63	-43.38	-14	-7.63	0
150.8	-21.63	-43.38	-14	-7.63	0
150.9	-21.69	-43.44	-14	-7.69	0
151.0	-21.79	-43.54	-14	-7.79	0
151.1	-21.93	-43.67	-14	-7.93	0
151.2	-22.10	-43.84	-14	-8.10	0
151.3	-22.29	-44.04	-14	-8.29	0
151.4	-22.49	-44.24	-14	-8.49	0
151.5	-22.69	-44.43	-14	-8.69	0
151.6	-22.86	-44.61	-14	-8.86	0
151.7	-23.00	-44.75	-14	-9.00	0
151.8	-23.09	-44.84	-14	-9.09	0
151.9	-23.12	-44.87	-14	-9.12	0
152.0	-23.08	-44.82	-14	-9.08	0
152.1	-22.97	-44.71	-14	-8.97	0
152.2	-22.80	-44.54	-14	-8.80	0
152.3	-22.58	-44.33	-14	-8.58	0
152.4	-22.33	-44.08	-14	-8.33	0
152.5	-22.07	-43.82	-14	-8.07	0
152.6	-21.80	-43.55	-14	-7.80	0
152.7	-21.55	-43.30	-14	-7.55	0
152.8	-21.32	-43.07	-14	-7.32	0
152.9	-21.13	-42.88	-14	-7.13	0
153.0	-20.98	-42.72	-14	-6.98	0
153.1	-20.87	-42.61	-14	-6.87	0
153.2	-20.81	-42.56	-14	-6.81	0
153.3	-20.81	-42.56	-14	-6.81	0
153.4	-20.87	-42.62	-14	-6.87	0
153.5	-20.99	-42.74	-14	-6.99	0
153.6	-21.18	-42.93	-14	-7.18	0
153.7	-21.44	-43.19	-14	-7.44	0
153.8	-21.77	-43.52	-14	-7.77	0
153.9	-22.18	-43.93	-14	-8.18	0
154.0	-22.66	-44.41	-14	-8.66	0
154.1	-23.22	-44.97	-14	-9.22	0

154.2	-23.84	-45.59	-14	-9.84	0
154.3	-24.50	-46.25	-14	-10.50	0
154.4	-25.16	-46.91	-14	-11.16	0
154.5	-25.73	-47.48	-14	-11.73	0
154.6	-26.11	-47.86	-14	-12.11	0
154.7	-26.19	-47.94	-14	-12.19	0
154.8	-25.91	-47.66	-14	-11.91	0
154.9	-25.31	-47.06	-14	-11.31	0
155.0	-24.50	-46.25	-14	-10.50	0
155.1	-23.57	-45.32	-14	-9.57	0
155.2	-22.63	-44.38	-14	-8.63	0
155.3	-21.71	-43.46	-14	-7.71	0
155.4	-20.85	-42.60	-14	-6.85	0
155.5	-20.06	-41.81	-14	-6.06	0
155.6	-19.35	-41.09	-14	-5.35	0
155.7	-18.71	-40.45	-14	-4.71	0
155.8	-18.13	-39.88	-14	-4.13	0
155.9	-17.63	-39.38	-14	-3.63	0
156.0	-17.20	-38.94	-14	-3.20	0
156.1	-16.82	-38.57	-14	-2.82	0
156.2	-16.51	-38.26	-14	-2.51	0
156.3	-16.25	-38.00	-14	-2.25	0
156.4	-16.05	-37.80	-14	-2.05	0
156.5	-15.91	-37.66	-14	-1.91	0
156.6	-15.82	-37.57	-14	-1.82	0
156.7	-15.78	-37.53	-14	-1.78	0
156.8	-15.79	-37.54	-14	-1.79	0
156.9	-15.86	-37.61	-14	-1.86	0
157.0	-15.98	-37.72	-14	-1.98	0
157.1	-16.15	-37.90	-14	-2.15	0
157.2	-16.38	-38.12	-14	-2.38	0
157.3	-16.66	-38.41	-14	-2.66	0
157.4	-17.00	-38.75	-14	-3.00	0
157.5	-17.40	-39.15	-14	-3.40	0
157.6	-17.87	-39.62	-14	-3.87	0
157.7	-18.40	-40.15	-14	-4.40	0
157.8	-19.01	-40.76	-14	-5.01	0
157.9	-19.69	-41.44	-14	-5.69	0
158.0	-20.46	-42.21	-14	-6.46	0
158.1	-21.32	-43.07	-14	-7.32	0
158.2	-22.29	-44.03	-14	-8.29	0
158.3	-23.37	-45.12	-14	-9.37	0
158.4	-24.59	-46.33	-14	-10.59	0
158.5	-25.96	-47.71	-14	-11.96	0
158.6	-27.51	-49.26	-14	-13.51	0
158.7	-29.29	-51.04	-14	-15.29	0
158.8	-31.32	-53.07	-14	-17.32	0
158.9	-33.66	-55.41	-14	-19.66	0
159.0	-36.30	-58.05	-14	-22.30	0
159.1	-39.03	-60.78	-14	-25.03	0

159.2	-41.04	-62.79	-14	-27.04	0
159.3	-41.38	-63.12	-14	-27.38	0
159.4	-40.54	-62.28	-14	-26.54	0
159.5	-39.58	-61.32	-14	-25.58	0
159.6	-38.90	-60.65	-14	-24.90	0
159.7	-38.54	-60.29	-14	-24.54	0
159.8	-38.35	-60.09	-14	-24.35	0
159.9	-38.06	-59.81	-14	-24.06	0
160.0	-37.34	-59.09	-14	-23.34	0
160.1	-36.02	-57.77	-14	-22.02	0
160.2	-34.25	-56.00	-14	-20.25	0
160.3	-32.30	-54.05	-14	-18.30	0
160.4	-30.38	-52.13	-14	-16.38	0
160.5	-28.59	-50.34	-14	-14.59	0
160.6	-26.96	-48.71	-14	-12.96	0
160.7	-25.48	-47.23	-14	-11.48	0
160.8	-24.15	-45.90	-14	-10.15	0
160.9	-22.95	-44.70	-14	-8.95	0
161.0	-21.87	-43.62	-14	-7.87	0
161.1	-20.90	-42.65	-14	-6.90	0
161.2	-20.03	-41.78	-14	-6.03	0
161.3	-19.25	-41.00	-14	-5.25	0
161.4	-18.56	-40.31	-14	-4.56	0
161.5	-17.94	-39.69	-14	-3.94	0
161.6	-17.39	-39.14	-14	-3.39	0
161.7	-16.92	-38.67	-14	-2.92	0
161.8	-16.51	-38.26	-14	-2.51	0
161.9	-16.16	-37.91	-14	-2.16	0
162.0	-15.88	-37.62	-14	-1.88	0
162.1	-15.65	-37.40	-14	-1.65	0
162.2	-15.48	-37.23	-14	-1.48	0
162.3	-15.37	-37.12	-14	-1.37	0
162.4	-15.33	-37.07	-14	-1.33	0
162.5	-15.33	-37.08	-14	-1.33	0
162.6	-15.40	-37.15	-14	-1.40	0
162.7	-15.53	-37.28	-14	-1.53	0
162.8	-15.73	-37.47	-14	-1.73	0
162.9	-15.98	-37.73	-14	-1.98	0
163.0	-16.31	-38.06	-14	-2.31	0
163.1	-16.71	-38.46	-14	-2.71	0
163.2	-17.19	-38.93	-14	-3.19	0
163.3	-17.75	-39.49	-14	-3.75	0
163.4	-18.40	-40.14	-14	-4.40	0
163.5	-19.14	-40.89	-14	-5.14	0
163.6	-19.99	-41.74	-14	-5.99	0
163.7	-20.96	-42.70	-14	-6.96	0
163.8	-22.03	-43.77	-14	-8.03	0
163.9	-23.19	-44.94	-14	-9.19	0
164.0	-24.39	-46.14	-14	-10.39	0
164.1	-25.52	-47.27	-14	-11.52	0

164.2	-26.37	-48.12	-14	-12.37	0
164.3	-26.70	-48.45	-14	-12.70	0
164.4	-26.44	-48.19	-14	-12.44	0
164.5	-25.73	-47.48	-14	-11.73	0
164.6	-24.82	-46.56	-14	-10.82	0
164.7	-23.87	-45.62	-14	-9.87	0
164.8	-23.00	-44.74	-14	-9.00	0
164.9	-22.23	-43.97	-14	-8.23	0
165.0	-21.58	-43.32	-14	-7.58	0
165.1	-21.05	-42.79	-14	-7.05	0
165.2	-20.63	-42.38	-14	-6.63	0
165.3	-20.32	-42.07	-14	-6.32	0
165.4	-20.12	-41.87	-14	-6.12	0
165.5	-20.01	-41.76	-14	-6.01	0
165.6	-20.01	-41.76	-14	-6.01	0
165.7	-20.09	-41.84	-14	-6.09	0
165.8	-20.27	-42.02	-14	-6.27	0
165.9	-20.54	-42.29	-14	-6.54	0
166.0	-20.89	-42.64	-14	-6.89	0
166.1	-21.33	-43.07	-14	-7.33	0
166.2	-21.83	-43.57	-14	-7.83	0
166.3	-22.37	-44.12	-14	-8.37	0
166.4	-22.93	-44.68	-14	-8.93	0
166.5	-23.44	-45.19	-14	-9.44	0
166.6	-23.84	-45.58	-14	-9.84	0
166.7	-24.03	-45.78	-14	-10.03	0
166.8	-23.98	-45.73	-14	-9.98	0
166.9	-23.67	-45.41	-14	-9.67	0
167.0	-23.15	-44.89	-14	-9.15	0
167.1	-22.50	-44.25	-14	-8.50	0
167.2	-21.81	-43.55	-14	-7.81	0
167.3	-21.12	-42.86	-14	-7.12	0
167.4	-20.47	-42.21	-14	-6.47	0
167.5	-19.88	-41.63	-14	-5.88	0
167.6	-19.37	-41.12	-14	-5.37	0
167.7	-18.94	-40.69	-14	-4.94	0
167.8	-18.59	-40.34	-14	-4.59	0
167.9	-18.33	-40.08	-14	-4.33	0
168.0	-18.16	-39.90	-14	-4.16	0
168.1	-18.07	-39.82	-14	-4.07	0
168.2	-18.08	-39.82	-14	-4.08	0
168.3	-18.18	-39.92	-14	-4.18	0
168.4	-18.37	-40.12	-14	-4.37	0
168.5	-18.68	-40.43	-14	-4.68	0
168.6	-19.10	-40.85	-14	-5.10	0
168.7	-19.65	-41.40	-14	-5.65	0
168.8	-20.35	-42.10	-14	-6.35	0
168.9	-21.23	-42.97	-14	-7.23	0
169.0	-22.31	-44.05	-14	-8.31	0
169.1	-23.64	-45.39	-14	-9.64	0

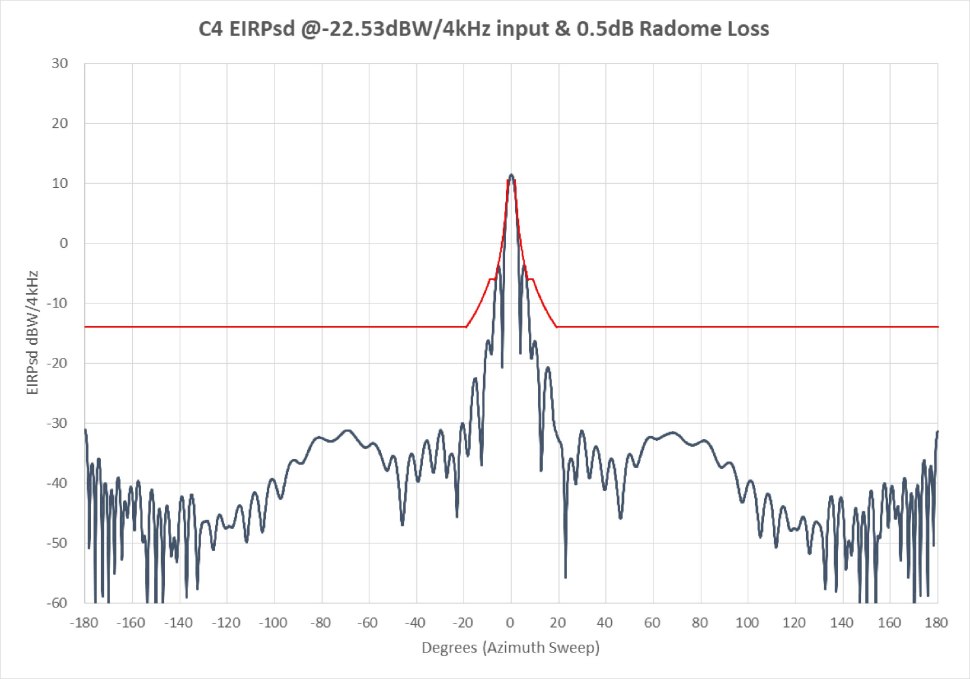
169.2	-25.28	-47.03	-14	-11.28	0
169.3	-27.28	-49.03	-14	-13.28	0
169.4	-29.50	-51.25	-14	-15.50	0
169.5	-31.10	-52.85	-14	-17.10	0
169.6	-30.59	-52.34	-14	-16.59	0
169.7	-28.43	-50.18	-14	-14.43	0
169.8	-26.08	-47.83	-14	-12.08	0
169.9	-24.05	-45.79	-14	-10.05	0
170.0	-22.35	-44.10	-14	-8.35	0
170.1	-20.94	-42.69	-14	-6.94	0
170.2	-19.77	-41.52	-14	-5.77	0
170.3	-18.79	-40.54	-14	-4.79	0
170.4	-17.97	-39.72	-14	-3.97	0
170.5	-17.29	-39.04	-14	-3.29	0
170.6	-16.74	-38.49	-14	-2.74	0
170.7	-16.29	-38.04	-14	-2.29	0
170.8	-15.95	-37.70	-14	-1.95	0
170.9	-15.70	-37.45	-14	-1.70	0
171.0	-15.55	-37.30	-14	-1.55	0
171.1	-15.48	-37.23	-14	-1.48	0
171.2	-15.51	-37.26	-14	-1.51	0
171.3	-15.63	-37.37	-14	-1.63	0
171.4	-15.84	-37.58	-14	-1.84	0
171.5	-16.15	-37.89	-14	-2.15	0
171.6	-16.56	-38.31	-14	-2.56	0
171.7	-17.09	-38.84	-14	-3.09	0
171.8	-17.76	-39.51	-14	-3.76	0
171.9	-18.58	-40.33	-14	-4.58	0
172.0	-19.59	-41.34	-14	-5.59	0
172.1	-20.83	-42.57	-14	-6.83	0
172.2	-22.37	-44.12	-14	-8.37	0
172.3	-24.35	-46.10	-14	-10.35	0
172.4	-27.00	-48.75	-14	-13.00	0
172.5	-30.85	-52.60	-14	-16.85	0
172.6	-37.10	-58.85	-14	-23.10	0
172.7	-39.00	-60.74	-14	-25.00	0
172.8	-32.21	-53.96	-14	-18.21	0
172.9	-28.02	-49.77	-14	-14.02	0
173.0	-25.25	-46.99	-14	-11.25	0
173.1	-23.24	-44.99	-14	-9.24	0
173.2	-21.71	-43.46	-14	-7.71	0
173.3	-20.53	-42.27	-14	-6.53	0
173.4	-19.60	-41.34	-14	-5.60	0
173.5	-18.87	-40.62	-14	-4.87	0
173.6	-18.33	-40.07	-14	-4.33	0
173.7	-17.93	-39.68	-14	-3.93	0
173.8	-17.68	-39.43	-14	-3.68	0
173.9	-17.56	-39.31	-14	-3.56	0
174.0	-17.58	-39.33	-14	-3.58	0
174.1	-17.73	-39.48	-14	-3.73	0

174.2	-18.03	-39.77	-14	-4.03	0
174.3	-18.47	-40.22	-14	-4.47	0
174.4	-19.10	-40.85	-14	-5.10	0
174.5	-19.93	-41.67	-14	-5.93	0
174.6	-21.00	-42.75	-14	-7.00	0
174.7	-22.40	-44.15	-14	-8.40	0
174.8	-24.23	-45.98	-14	-10.23	0
174.9	-26.65	-48.40	-14	-12.65	0
175.0	-29.69	-51.43	-14	-15.69	0
175.1	-31.93	-53.68	-14	-17.93	0
175.2	-30.11	-51.86	-14	-16.11	0
175.3	-26.66	-48.41	-14	-12.66	0
175.4	-23.73	-45.47	-14	-9.73	0
175.5	-21.41	-43.16	-14	-7.41	0
175.6	-19.55	-41.30	-14	-5.55	0
175.7	-18.03	-39.78	-14	-4.03	0
175.8	-16.76	-38.51	-14	-2.76	0
175.9	-15.69	-37.44	-14	-1.69	0
176.0	-14.79	-36.54	-14	-0.79	0
176.1	-14.03	-35.78	-14	-0.03	0
176.2	-13.39	-35.14	-14	0.61	0
176.3	-12.86	-34.61	-14	1.14	0
176.4	-12.42	-34.17	-14	1.58	0
176.5	-12.08	-33.83	-14	1.92	0
176.6	-11.83	-33.58	-14	2.17	0
176.7	-11.66	-33.40	-14	2.34	0
176.8	-11.57	-33.32	-14	2.43	0
176.9	-11.56	-33.31	-14	2.44	0
177.0	-11.64	-33.38	-14	2.36	0
177.1	-11.80	-33.55	-14	2.20	0
177.2	-12.05	-33.80	-14	1.95	0
177.3	-12.40	-34.14	-14	1.60	0
177.4	-12.85	-34.60	-14	1.15	0
177.5	-13.42	-35.17	-14	0.58	0
177.6	-14.12	-35.87	-14	-0.12	0
177.7	-14.99	-36.74	-14	-0.99	0
177.8	-16.05	-37.80	-14	-2.05	0
177.9	-17.36	-39.10	-14	-3.36	0
178.0	-19.00	-40.75	-14	-5.00	0
178.1	-21.13	-42.87	-14	-7.13	0
178.2	-24.01	-45.76	-14	-10.01	0
178.3	-28.18	-49.92	-14	-14.18	0
178.4	-33.12	-54.87	-14	-19.12	0
178.5	-30.33	-52.08	-14	-16.33	0
178.6	-25.46	-47.21	-14	-11.46	0
178.7	-22.10	-43.84	-14	-8.10	0
178.8	-19.67	-41.41	-14	-5.67	0
178.9	-17.81	-39.56	-14	-3.81	0
179.0	-16.35	-38.09	-14	-2.35	0
179.1	-15.16	-36.91	-14	-1.16	0

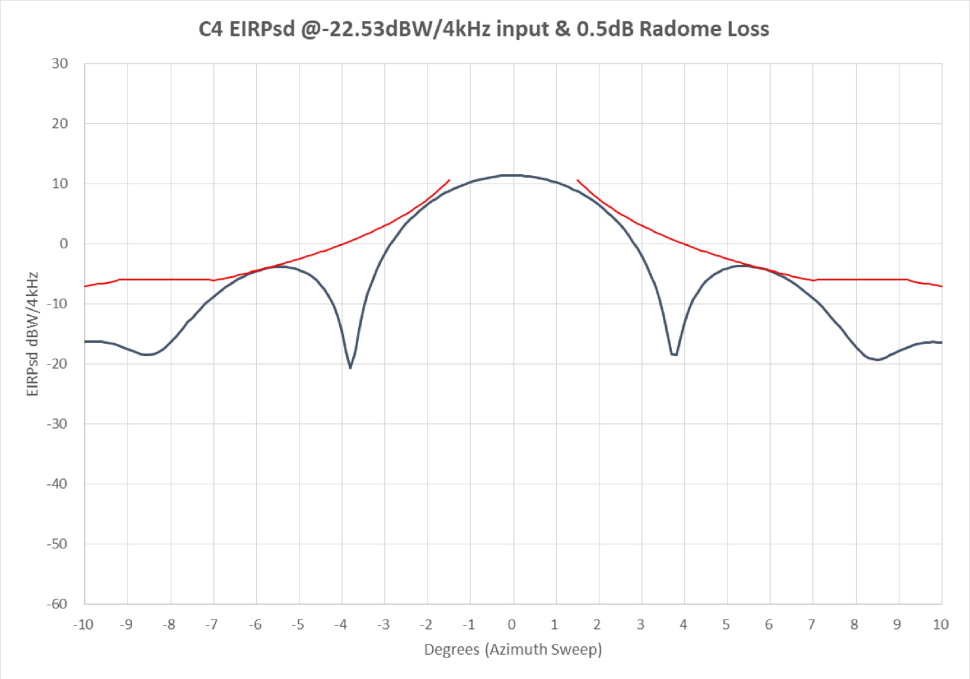
179.2	-14.19	-35.93	-14	-0.19	0
179.3	-13.39	-35.13	-14	0.61	0
179.4	-12.73	-34.48	-14	1.27	0
179.5	-12.20	-33.95	-14	1.80	0
179.6	-11.79	-33.53	-14	2.21	0
179.7	-11.47	-33.22	-14	2.53	0
179.8	-11.25	-33.00	-14	2.75	0
179.9	-11.12	-32.86	-14	2.88	0
180.0	-11.07	-32.82	-14	2.93	0

3) 14.5GHz

a) At off-axis angles from ±180° range (Tangent)



b) At off-axis angles from ±10° range (Tangent)



Model	C4		Min input: (@all freq.)	-22.53
Frequency	14.50	[GHz]		
GSO arc	Tangent			
EIRPsd Input	-22.53	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	33.95			out of spec

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-8.58	-31.12	-14	5.42	0
-179.9	-8.62	-31.16	-14	5.38	0
-179.8	-8.73	-31.27	-14	5.27	0
-179.7	-8.92	-31.45	-14	5.08	0
-179.6	-9.18	-31.72	-14	4.82	0
-179.5	-9.53	-32.07	-14	4.47	0
-179.4	-9.97	-32.50	-14	4.03	0
-179.3	-10.50	-33.03	-14	3.50	0
-179.2	-11.13	-33.67	-14	2.87	0
-179.1	-11.89	-34.42	-14	2.11	0
-179.0	-12.78	-35.31	-14	1.22	0
-178.9	-13.83	-36.36	-14	0.17	0
-178.8	-15.08	-37.61	-14	-1.08	0
-178.7	-16.58	-39.11	-14	-2.58	0
-178.6	-18.40	-40.93	-14	-4.40	0
-178.5	-20.66	-43.19	-14	-6.66	0
-178.4	-23.48	-46.02	-14	-9.48	0
-178.3	-26.71	-49.25	-14	-12.71	0
-178.2	-28.36	-50.90	-14	-14.36	0
-178.1	-26.35	-48.88	-14	-12.35	0
-178.0	-23.46	-46.00	-14	-9.46	0
-177.9	-21.10	-43.63	-14	-7.10	0
-177.8	-19.28	-41.81	-14	-5.28	0
-177.7	-17.87	-40.41	-14	-3.87	0
-177.6	-16.78	-39.31	-14	-2.78	0
-177.5	-15.93	-38.46	-14	-1.93	0
-177.4	-15.28	-37.82	-14	-1.28	0
-177.3	-14.80	-37.34	-14	-0.80	0
-177.2	-14.48	-37.01	-14	-0.48	0
-177.1	-14.29	-36.83	-14	-0.29	0
-177.0	-14.23	-36.77	-14	-0.23	0
-176.9	-14.30	-36.84	-14	-0.30	0
-176.8	-14.50	-37.03	-14	-0.50	0
-176.7	-14.83	-37.36	-14	-0.83	0
-176.6	-15.30	-37.83	-14	-1.30	0
-176.5	-15.92	-38.46	-14	-1.92	0
-176.4	-16.73	-39.26	-14	-2.73	0
-176.3	-17.75	-40.28	-14	-3.75	0
-176.2	-19.04	-41.57	-14	-5.04	0
-176.1	-20.70	-43.23	-14	-6.70	0
-176.0	-22.89	-45.42	-14	-8.89	0
-175.9	-25.96	-48.49	-14	-11.96	0

-175.8	-30.74	-53.28	-14	-16.74	0
-175.7	-37.92	-60.45	-14	-23.92	0
-175.6	-32.70	-55.23	-14	-18.70	0
-175.5	-27.07	-49.61	-14	-13.07	0
-175.4	-23.59	-46.13	-14	-9.59	0
-175.3	-21.16	-43.69	-14	-7.16	0
-175.2	-19.33	-41.86	-14	-5.33	0
-175.1	-17.90	-40.43	-14	-3.90	0
-175.0	-16.76	-39.29	-14	-2.76	0
-174.9	-15.84	-38.38	-14	-1.84	0
-174.8	-15.10	-37.64	-14	-1.10	0
-174.7	-14.52	-37.05	-14	-0.52	0
-174.6	-14.06	-36.60	-14	-0.06	0
-174.5	-13.73	-36.26	-14	0.27	0
-174.4	-13.50	-36.03	-14	0.50	0
-174.3	-13.37	-35.90	-14	0.63	0
-174.2	-13.34	-35.88	-14	0.66	0
-174.1	-13.41	-35.94	-14	0.59	0
-174.0	-13.58	-36.11	-14	0.42	0
-173.9	-13.84	-36.37	-14	0.16	0
-173.8	-14.21	-36.74	-14	-0.21	0
-173.7	-14.69	-37.22	-14	-0.69	0
-173.6	-15.28	-37.82	-14	-1.28	0
-173.5	-16.02	-38.56	-14	-2.02	0
-173.4	-16.91	-39.45	-14	-2.91	0
-173.3	-17.99	-40.53	-14	-3.99	0
-173.2	-19.31	-41.85	-14	-5.31	0
-173.1	-20.94	-43.47	-14	-6.94	0
-173.0	-23.00	-45.53	-14	-9.00	0
-172.9	-25.72	-48.26	-14	-11.72	0
-172.8	-29.59	-52.12	-14	-15.59	0
-172.7	-35.38	-57.91	-14	-21.38	0
-172.6	-36.46	-58.99	-14	-22.46	0
-172.5	-30.72	-53.26	-14	-16.72	0
-172.4	-26.86	-49.40	-14	-12.86	0
-172.3	-24.26	-46.80	-14	-10.26	0
-172.2	-22.39	-44.92	-14	-8.39	0
-172.1	-20.97	-43.51	-14	-6.97	0
-172.0	-19.89	-42.42	-14	-5.89	0
-171.9	-19.06	-41.59	-14	-5.06	0
-171.8	-18.43	-40.96	-14	-4.43	0
-171.7	-17.97	-40.51	-14	-3.97	0
-171.6	-17.67	-40.20	-14	-3.67	0
-171.5	-17.50	-40.04	-14	-3.50	0
-171.4	-17.46	-40.00	-14	-3.46	0
-171.3	-17.56	-40.09	-14	-3.56	0
-171.2	-17.78	-40.31	-14	-3.78	0
-171.1	-18.13	-40.66	-14	-4.13	0
-171.0	-18.62	-41.15	-14	-4.62	0
-170.9	-19.27	-41.81	-14	-5.27	0

-170.8	-20.10	-42.64	-14	-6.10	0
-170.7	-21.15	-43.68	-14	-7.15	0
-170.6	-22.46	-45.00	-14	-8.46	0
-170.5	-24.15	-46.68	-14	-10.15	0
-170.4	-26.37	-48.90	-14	-12.37	0
-170.3	-29.50	-52.03	-14	-15.50	0
-170.2	-34.55	-57.09	-14	-20.55	0
-170.1	-47.21	-69.75	-14	-33.21	0
-170.0	-38.74	-61.28	-14	-24.74	0
-169.9	-31.71	-54.25	-14	-17.71	0
-169.8	-27.97	-50.50	-14	-13.97	0
-169.7	-25.47	-48.01	-14	-11.47	0
-169.6	-23.65	-46.18	-14	-9.65	0
-169.5	-22.26	-44.80	-14	-8.26	0
-169.4	-21.19	-43.72	-14	-7.19	0
-169.3	-20.35	-42.88	-14	-6.35	0
-169.2	-19.71	-42.24	-14	-5.71	0
-169.1	-19.23	-41.76	-14	-5.23	0
-169.0	-18.90	-41.44	-14	-4.90	0
-168.9	-18.71	-41.25	-14	-4.71	0
-168.8	-18.65	-41.18	-14	-4.65	0
-168.7	-18.71	-41.25	-14	-4.71	0
-168.6	-18.90	-41.44	-14	-4.90	0
-168.5	-19.23	-41.76	-14	-5.23	0
-168.4	-19.70	-42.23	-14	-5.70	0
-168.3	-20.32	-42.85	-14	-6.32	0
-168.2	-21.12	-43.66	-14	-7.12	0
-168.1	-22.14	-44.67	-14	-8.14	0
-168.0	-23.41	-45.95	-14	-9.41	0
-167.9	-25.01	-47.55	-14	-11.01	0
-167.8	-27.03	-49.56	-14	-13.03	0
-167.7	-29.50	-52.04	-14	-15.50	0
-167.6	-32.00	-54.54	-14	-18.00	0
-167.5	-32.60	-55.13	-14	-18.60	0
-167.4	-30.47	-53.00	-14	-16.47	0
-167.3	-27.76	-50.30	-14	-13.76	0
-167.2	-25.44	-47.98	-14	-11.44	0
-167.1	-23.57	-46.10	-14	-9.57	0
-167.0	-22.05	-44.59	-14	-8.05	0
-166.9	-20.81	-43.35	-14	-6.81	0
-166.8	-19.79	-42.33	-14	-5.79	0
-166.7	-18.96	-41.49	-14	-4.96	0
-166.6	-18.27	-40.81	-14	-4.27	0
-166.5	-17.72	-40.26	-14	-3.72	0
-166.4	-17.29	-39.83	-14	-3.29	0
-166.3	-16.97	-39.50	-14	-2.97	0
-166.2	-16.74	-39.27	-14	-2.74	0
-166.1	-16.61	-39.14	-14	-2.61	0
-166.0	-16.57	-39.10	-14	-2.57	0
-165.9	-16.62	-39.16	-14	-2.62	0

-165.8	-16.76	-39.30	-14	-2.76	0
-165.7	-16.99	-39.53	-14	-2.99	0
-165.6	-17.32	-39.85	-14	-3.32	0
-165.5	-17.74	-40.28	-14	-3.74	0
-165.4	-18.27	-40.81	-14	-4.27	0
-165.3	-18.92	-41.45	-14	-4.92	0
-165.2	-19.69	-42.22	-14	-5.69	0
-165.1	-20.60	-43.14	-14	-6.60	0
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-164.9	-22.95	-45.49	-14	-8.95	0
-164.8	-24.43	-46.97	-14	-10.43	0
-164.7	-26.12	-48.66	-14	-12.12	0
-164.6	-27.94	-50.47	-14	-13.94	0
-164.5	-29.55	-52.08	-14	-15.55	0
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-164.3	-29.62	-52.16	-14	-15.62	0
-164.2	-28.20	-50.74	-14	-14.20	0
-164.1	-26.65	-49.18	-14	-12.65	0
-164.0	-25.25	-47.78	-14	-11.25	0
-163.9	-24.07	-46.60	-14	-10.07	0
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-163.1	-20.52	-43.06	-14	-6.52	0
-163.0	-20.60	-43.14	-14	-6.60	0
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-162.6	-21.71	-44.25	-14	-7.71	0
-162.5	-22.12	-44.65	-14	-8.12	0
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-162.1	-23.23	-45.77	-14	-9.23	0
-162.0	-23.16	-45.69	-14	-9.16	0
-161.9	-22.90	-45.43	-14	-8.90	0
-161.8	-22.49	-45.03	-14	-8.49	0
-161.7	-21.98	-44.52	-14	-7.98	0
-161.6	-21.42	-43.96	-14	-7.42	0
-161.5	-20.85	-43.39	-14	-6.85	0
-161.4	-20.30	-42.84	-14	-6.30	0
-161.3	-19.80	-42.33	-14	-5.80	0
-161.2	-19.35	-41.88	-14	-5.35	0
-161.1	-18.96	-41.49	-14	-4.96	0
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-160.9	-18.40	-40.93	-14	-4.40	0

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-160.5	-18.15	-40.68	-14	-4.15	0
-160.4	-18.27	-40.81	-14	-4.27	0
-160.3	-18.48	-41.02	-14	-4.48	0
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-160.1	-19.15	-41.68	-14	-5.15	0
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-159.9	-20.17	-42.71	-14	-6.17	0
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-159.5	-23.25	-45.78	-14	-9.25	0
-159.4	-24.10	-46.63	-14	-10.10	0
-159.3	-24.81	-47.34	-14	-10.81	0
-159.2	-25.24	-47.78	-14	-11.24	0
-159.1	-25.27	-47.80	-14	-11.27	0
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-158.9	-24.15	-46.69	-14	-10.15	0
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-3.9	4.46	-18.08	0.223384824	4.23	0
-3.8	1.82	-20.72	0.505410085	1.31	0
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-3.6	8.47	-14.07	1.092437481	7.37	0
-3.5	11.71	-10.82	1.398298891	10.32	0
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-3.2	18.11	-4.42	2.371250542	15.74	0
-3.1	19.63	-2.90	2.715957654	16.91	0
-3.0	20.97	-1.57	3.071968632	17.89	0
-2.9	22.16	-0.38	3.440050053	18.72	0
-2.8	23.23	0.70	3.821049216	19.41	0
-2.7	24.20	1.67	4.215905896	19.99	0
-2.6	25.09	2.56	4.625666301	20.47	0
-2.5	25.91	3.38	5.051499783	20.86	0
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-2.1	28.60	6.07	6.944517632	21.66	0
-2.0	29.16	6.62	7.474250108	21.68	0
-1.9	29.67	7.14	8.031159976	21.64	0
-1.8	30.15	7.62	8.618187372	21.53	0
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-1.5	31.38	8.85	10.59771852	20.78	0
-1.4	31.73	9.20			
-1.3	32.05	9.52			
-1.2	32.34	9.81			
-1.1	32.61	10.07			
-1.0	32.85	10.31			
-0.9	33.06	10.53			

-0.8	33.25	10.72			
-0.7	33.42	10.89			
-0.6	33.57	11.03			
-0.5	33.69	11.15			
-0.4	33.78	11.25			
-0.3	33.86	11.32			
-0.2	33.91	11.38			
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0.1	33.94	11.40			
0.2	33.90	11.37			
0.3	33.84	11.31			
0.4	33.76	11.23			
0.5	33.66	11.12			
0.6	33.53	11.00			
0.7	33.38	10.85			
0.8	33.21	10.68			
0.9	33.01	10.48			
1.0	32.79	10.26			
1.1	32.54	10.01			
1.2	32.27	9.74			
1.3	31.97	9.44			
1.4	31.64	9.11			
1.5	31.29	8.75	10.59771852	20.69	0
1.6	30.90	8.36	9.897000434	21.00	0
1.7	30.48	7.94	9.238776966	21.24	0
1.8	30.02	7.49	8.618187372	21.41	0
1.9	29.53	7.00	8.031159976	21.50	0
2.0	29.01	6.47	7.474250108	21.53	0
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2.2	27.82	5.29	6.439432979	21.38	0
2.3	27.16	4.63	5.9568041	21.20	0
2.4	26.44	3.91	5.494718957	20.95	0
2.5	25.67	3.13	5.051499783	20.62	0
2.6	24.82	2.29	4.625666301	20.20	0
2.7	23.90	1.37	4.215905896	19.69	0
2.8	22.89	0.36	3.821049216	19.07	0
2.9	21.78	-0.76	3.440050053	18.34	0
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3.4	13.46	-9.08	1.713027074	11.75	0
3.5	10.75	-11.78	1.398298891	9.35	0
3.6	7.44	-15.09	1.092437481	6.35	0
3.7	4.19	-18.34	0.794956898	3.40	0
3.8	4.12	-18.42	0.505410085	3.61	0
3.9	6.90	-15.64	0.223384824	6.68	0
4.0	9.58	-12.95	-0.051499783	9.63	0
4.1	11.66	-10.87	-0.319596418	11.98	0

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4.3	14.52	-8.01	-0.836711389	15.36	0
4.4	15.53	-7.01	-1.086316912	16.61	0
4.5	16.33	-6.20	-1.330312844	17.66	0
4.6	16.98	-5.55	-1.568945792	18.55	0
4.7	17.51	-5.03	-1.802446448	19.31	0
4.8	17.93	-4.61	-2.031030934	19.96	0
4.9	18.26	-4.28	-2.254902001	20.51	0
5.0	18.50	-4.03	-2.474250108	20.98	0
5.1	18.69	-3.85	-2.689254402	21.37	0
5.2	18.80	-3.73	-2.900083591	21.70	0
5.3	18.86	-3.67	-3.10689674	21.97	0
5.4	18.87	-3.66	-3.309843996	22.18	0
5.5	18.83	-3.70	-3.509067237	22.34	0
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6.4	16.63	-5.91	-5.15449935	21.78	0
6.5	16.20	-6.34	-5.322833916	21.52	0
6.6	15.73	-6.81	-5.488598389	21.21	0
6.7	15.22	-7.32	-5.651870068	20.87	0
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7.1	12.80	-9.73	-6	18.80	0
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7.3	11.35	-11.18	-6	17.35	0
7.4	10.57	-11.97	-6	16.57	0
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7.7	7.99	-14.54	-6	13.99	0
7.8	7.09	-15.44	-6	13.09	0
7.9	6.20	-16.33	-6	12.20	0
8.0	5.36	-17.18	-6	11.36	0
8.1	4.60	-17.94	-6	10.60	0
8.2	3.98	-18.56	-6	9.98	0
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8.5	3.30	-19.24	-6	9.30	0
8.6	3.44	-19.10	-6	9.44	0
8.7	3.70	-18.84	-6	9.70	0
8.8	4.02	-18.51	-6	10.02	0
8.9	4.37	-18.16	-6	10.37	0
9.0	4.72	-17.82	-6	10.72	0
9.1	5.05	-17.49	-6	11.05	0

9.2	5.34	-17.20	-6	11.34	0
9.3	5.59	-16.94	-6.212073714	11.80	0
9.4	5.80	-16.73	-6.32819634	12.13	0
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9.7	6.17	-16.37	-6.669293357	12.83	0
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12.5	-14.67	-37.20	-9.422750325	-5.25	0
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15.9	1.37	-21.17	-12.03492811	13.40	0
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16.1	0.94	-21.60	-12.1706469	13.11	0
16.2	0.67	-21.87	-12.23787536	12.91	0
16.3	0.36	-22.17	-12.30469011	12.67	0
16.4	0.02	-22.51	-12.3710962	12.39	0
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19.7	-10.05	-32.59	-14	3.95	0
19.8	-10.17	-32.70	-14	3.83	0
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20.8	-10.83	-33.37	-14	3.17	0
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21.7	-13.49	-36.02	-14	0.51	0
21.8	-14.10	-36.63	-14	-0.10	0
21.9	-14.81	-37.34	-14	-0.81	0
22.0	-15.63	-38.17	-14	-1.63	0
22.1	-16.59	-39.12	-14	-2.59	0
22.2	-17.70	-40.24	-14	-3.70	0
22.3	-19.02	-41.56	-14	-5.02	0
22.4	-20.61	-43.14	-14	-6.61	0
22.5	-22.55	-45.08	-14	-8.55	0
22.6	-25.01	-47.54	-14	-11.01	0
22.7	-28.20	-50.73	-14	-14.20	0
22.8	-32.02	-54.55	-14	-18.02	0
22.9	-33.21	-55.74	-14	-19.21	0
23.0	-29.92	-52.45	-14	-15.92	0
23.1	-26.59	-49.12	-14	-12.59	0
23.2	-24.06	-46.59	-14	-10.06	0
23.3	-22.12	-44.66	-14	-8.12	0
23.4	-20.59	-43.13	-14	-6.59	0
23.5	-19.35	-41.89	-14	-5.35	0
23.6	-18.33	-40.86	-14	-4.33	0
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24.2	-14.83	-37.36	-14	-0.83	0
24.3	-14.51	-37.05	-14	-0.51	0
24.4	-14.25	-36.79	-14	-0.25	0
24.5	-14.04	-36.57	-14	-0.04	0
24.6	-13.86	-36.40	-14	0.14	0
24.7	-13.72	-36.26	-14	0.28	0
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25.0	-13.48	-36.01	-14	0.52	0
25.1	-13.45	-35.99	-14	0.55	0
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25.3	-13.47	-36.01	-14	0.53	0
25.4	-13.52	-36.05	-14	0.48	0
25.5	-13.58	-36.12	-14	0.42	0
25.6	-13.68	-36.21	-14	0.32	0
25.7	-13.80	-36.33	-14	0.20	0
25.8	-13.94	-36.48	-14	0.06	0
25.9	-14.12	-36.65	-14	-0.12	0
26.0	-14.32	-36.86	-14	-0.32	0
26.1	-14.56	-37.09	-14	-0.56	0
26.2	-14.82	-37.35	-14	-0.82	0
26.3	-15.11	-37.65	-14	-1.11	0
26.4	-15.43	-37.97	-14	-1.43	0
26.5	-15.78	-38.31	-14	-1.78	0
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26.9	-17.17	-39.70	-14	-3.17	0
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27.1	-17.57	-40.10	-14	-3.57	0
27.2	-17.59	-40.13	-14	-3.59	0
27.3	-17.47	-40.01	-14	-3.47	0
27.4	-17.21	-39.74	-14	-3.21	0
27.5	-16.82	-39.35	-14	-2.82	0
27.6	-16.32	-38.86	-14	-2.32	0
27.7	-15.76	-38.30	-14	-1.76	0
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27.9	-14.55	-37.08	-14	-0.55	0
28.0	-13.94	-36.48	-14	0.06	0
28.1	-13.36	-35.89	-14	0.64	0
28.2	-12.80	-35.33	-14	1.20	0
28.3	-12.27	-34.81	-14	1.73	0
28.4	-11.79	-34.32	-14	2.21	0
28.5	-11.33	-33.87	-14	2.67	0
28.6	-10.92	-33.46	-14	3.08	0
28.7	-10.55	-33.08	-14	3.45	0
28.8	-10.21	-32.75	-14	3.79	0
28.9	-9.92	-32.45	-14	4.08	0
29.0	-9.65	-32.19	-14	4.35	0
29.1	-9.43	-31.96	-14	4.57	0

29.2	-9.24	-31.77	-14	4.76	0
29.3	-9.08	-31.61	-14	4.92	0
29.4	-8.95	-31.49	-14	5.05	0
29.5	-8.86	-31.39	-14	5.14	0
29.6	-8.80	-31.33	-14	5.20	0
29.7	-8.76	-31.30	-14	5.24	0
29.8	-8.76	-31.29	-14	5.24	0
29.9	-8.79	-31.32	-14	5.21	0
30.0	-8.84	-31.37	-14	5.16	0
30.1	-8.92	-31.46	-14	5.08	0
30.2	-9.03	-31.56	-14	4.97	0
30.3	-9.16	-31.70	-14	4.84	0
30.4	-9.32	-31.86	-14	4.68	0
30.5	-9.51	-32.04	-14	4.49	0
30.6	-9.72	-32.25	-14	4.28	0
30.7	-9.95	-32.49	-14	4.05	0
30.8	-10.21	-32.74	-14	3.79	0
30.9	-10.48	-33.02	-14	3.52	0
31.0	-10.78	-33.32	-14	3.22	0
31.1	-11.10	-33.63	-14	2.90	0
31.2	-11.44	-33.97	-14	2.56	0
31.3	-11.79	-34.32	-14	2.21	0
31.4	-12.15	-34.69	-14	1.85	0
31.5	-12.53	-35.07	-14	1.47	0
31.6	-12.92	-35.46	-14	1.08	0
31.7	-13.32	-35.85	-14	0.68	0
31.8	-13.72	-36.25	-14	0.28	0
31.9	-14.11	-36.65	-14	-0.11	0
32.0	-14.51	-37.04	-14	-0.51	0
32.1	-14.88	-37.42	-14	-0.88	0
32.2	-15.24	-37.78	-14	-1.24	0
32.3	-15.58	-38.11	-14	-1.58	0
32.4	-15.88	-38.41	-14	-1.88	0
32.5	-16.14	-38.67	-14	-2.14	0
32.6	-16.34	-38.88	-14	-2.34	0
32.7	-16.50	-39.03	-14	-2.50	0
32.8	-16.59	-39.12	-14	-2.59	0
32.9	-16.62	-39.15	-14	-2.62	0
33.0	-16.59	-39.12	-14	-2.59	0
33.1	-16.50	-39.03	-14	-2.50	0
33.2	-16.36	-38.89	-14	-2.36	0
33.3	-16.17	-38.70	-14	-2.17	0
33.4	-15.94	-38.47	-14	-1.94	0
33.5	-15.68	-38.22	-14	-1.68	0
33.6	-15.40	-37.94	-14	-1.40	0
33.7	-15.11	-37.64	-14	-1.11	0
33.8	-14.80	-37.34	-14	-0.80	0
33.9	-14.50	-37.03	-14	-0.50	0
34.0	-14.19	-36.73	-14	-0.19	0
34.1	-13.90	-36.43	-14	0.10	0

34.2	-13.61	-36.14	-14	0.39	0
34.3	-13.33	-35.86	-14	0.67	0
34.4	-13.07	-35.60	-14	0.93	0
34.5	-12.82	-35.36	-14	1.18	0
34.6	-12.59	-35.13	-14	1.41	0
34.7	-12.38	-34.92	-14	1.62	0
34.8	-12.19	-34.72	-14	1.81	0
34.9	-12.02	-34.55	-14	1.98	0
35.0	-11.86	-34.40	-14	2.14	0
35.1	-11.73	-34.27	-14	2.27	0
35.2	-11.62	-34.15	-14	2.38	0
35.3	-11.53	-34.06	-14	2.47	0
35.4	-11.46	-33.99	-14	2.54	0
35.5	-11.41	-33.94	-14	2.59	0
35.6	-11.38	-33.91	-14	2.62	0
35.7	-11.37	-33.90	-14	2.63	0
35.8	-11.38	-33.91	-14	2.62	0
35.9	-11.40	-33.94	-14	2.60	0
36.0	-11.45	-33.99	-14	2.55	0
36.1	-11.52	-34.05	-14	2.48	0
36.2	-11.60	-34.14	-14	2.40	0
36.3	-11.71	-34.24	-14	2.29	0
36.4	-11.83	-34.36	-14	2.17	0
36.5	-11.96	-34.50	-14	2.04	0
36.6	-12.12	-34.65	-14	1.88	0
36.7	-12.29	-34.82	-14	1.71	0
36.8	-12.47	-35.00	-14	1.53	0
36.9	-12.67	-35.20	-14	1.33	0
37.0	-12.88	-35.41	-14	1.12	0
37.1	-13.10	-35.63	-14	0.90	0
37.2	-13.33	-35.87	-14	0.67	0
37.3	-13.58	-36.11	-14	0.42	0
37.4	-13.83	-36.36	-14	0.17	0
37.5	-14.09	-36.63	-14	-0.09	0
37.6	-14.36	-36.90	-14	-0.36	0
37.7	-14.64	-37.17	-14	-0.64	0
37.8	-14.92	-37.46	-14	-0.92	0
37.9	-15.21	-37.75	-14	-1.21	0
38.0	-15.50	-38.04	-14	-1.50	0
38.1	-15.80	-38.33	-14	-1.80	0
38.2	-16.09	-38.63	-14	-2.09	0
38.3	-16.39	-38.92	-14	-2.39	0
38.4	-16.68	-39.21	-14	-2.68	0
38.5	-16.96	-39.50	-14	-2.96	0
38.6	-17.24	-39.78	-14	-3.24	0
38.7	-17.51	-40.04	-14	-3.51	0
38.8	-17.76	-40.30	-14	-3.76	0
38.9	-17.99	-40.53	-14	-3.99	0
39.0	-18.20	-40.73	-14	-4.20	0
39.1	-18.37	-40.90	-14	-4.37	0

39.2	-18.50	-41.04	-14	-4.50	0
39.3	-18.59	-41.13	-14	-4.59	0
39.4	-18.63	-41.17	-14	-4.63	0
39.5	-18.62	-41.16	-14	-4.62	0
39.6	-18.56	-41.10	-14	-4.56	0
39.7	-18.45	-40.98	-14	-4.45	0
39.8	-18.29	-40.82	-14	-4.29	0
39.9	-18.09	-40.62	-14	-4.09	0
40.0	-17.85	-40.38	-14	-3.85	0
40.1	-17.59	-40.12	-14	-3.59	0
40.2	-17.30	-39.84	-14	-3.30	0
40.3	-17.00	-39.54	-14	-3.00	0
40.4	-16.70	-39.23	-14	-2.70	0
40.5	-16.39	-38.92	-14	-2.39	0
40.6	-16.09	-38.62	-14	-2.09	0
40.7	-15.79	-38.32	-14	-1.79	0
40.8	-15.50	-38.04	-14	-1.50	0
40.9	-15.23	-37.77	-14	-1.23	0
41.0	-14.98	-37.51	-14	-0.98	0
41.1	-14.74	-37.27	-14	-0.74	0
41.2	-14.52	-37.05	-14	-0.52	0
41.3	-14.32	-36.85	-14	-0.32	0
41.4	-14.13	-36.67	-14	-0.13	0
41.5	-13.97	-36.51	-14	0.03	0
41.6	-13.83	-36.37	-14	0.17	0
41.7	-13.72	-36.25	-14	0.28	0
41.8	-13.62	-36.15	-14	0.38	0
41.9	-13.54	-36.08	-14	0.46	0
42.0	-13.49	-36.02	-14	0.51	0
42.1	-13.46	-35.99	-14	0.54	0
42.2	-13.44	-35.98	-14	0.56	0
42.3	-13.45	-35.99	-14	0.55	0
42.4	-13.48	-36.02	-14	0.52	0
42.5	-13.53	-36.07	-14	0.47	0
42.6	-13.60	-36.14	-14	0.40	0
42.7	-13.69	-36.23	-14	0.31	0
42.8	-13.80	-36.34	-14	0.20	0
42.9	-13.93	-36.47	-14	0.07	0
43.0	-14.08	-36.62	-14	-0.08	0
43.1	-14.25	-36.79	-14	-0.25	0
43.2	-14.44	-36.97	-14	-0.44	0
43.3	-14.64	-37.18	-14	-0.64	0
43.4	-14.87	-37.40	-14	-0.87	0
43.5	-15.11	-37.64	-14	-1.11	0
43.6	-15.36	-37.90	-14	-1.36	0
43.7	-15.63	-38.17	-14	-1.63	0
43.8	-15.92	-38.46	-14	-1.92	0
43.9	-16.22	-38.76	-14	-2.22	0
44.0	-16.54	-39.07	-14	-2.54	0
44.1	-16.86	-39.40	-14	-2.86	0

44.2	-17.20	-39.73	-14	-3.20	0
44.3	-17.55	-40.08	-14	-3.55	0
44.4	-17.91	-40.44	-14	-3.91	0
44.5	-18.27	-40.81	-14	-4.27	0
44.6	-18.65	-41.18	-14	-4.65	0
44.7	-19.03	-41.56	-14	-5.03	0
44.8	-19.41	-41.95	-14	-5.41	0
44.9	-19.80	-42.33	-14	-5.80	0
45.0	-20.19	-42.72	-14	-6.19	0
45.1	-20.58	-43.11	-14	-6.58	0
45.2	-20.97	-43.50	-14	-6.97	0
45.3	-21.35	-43.88	-14	-7.35	0
45.4	-21.72	-44.26	-14	-7.72	0
45.5	-22.08	-44.61	-14	-8.08	0
45.6	-22.41	-44.95	-14	-8.41	0
45.7	-22.72	-45.25	-14	-8.72	0
45.8	-22.98	-45.52	-14	-8.98	0
45.9	-23.20	-45.73	-14	-9.20	0
46.0	-23.34	-45.88	-14	-9.34	0
46.1	-23.41	-45.95	-14	-9.41	0
46.2	-23.40	-45.93	-14	-9.40	0
46.3	-23.29	-45.83	-14	-9.29	0
46.4	-23.10	-45.64	-14	-9.10	0
46.5	-22.82	-45.36	-14	-8.82	0
46.6	-22.48	-45.01	-14	-8.48	0
46.7	-22.07	-44.60	-14	-8.07	0
46.8	-21.62	-44.15	-14	-7.62	0
46.9	-21.13	-43.67	-14	-7.13	0
47.0	-20.63	-43.16	-14	-6.63	0
47.1	-20.12	-42.65	-14	-6.12	0
47.2	-19.60	-42.14	-14	-5.60	0
47.3	-19.10	-41.63	-14	-5.10	0
47.4	-18.60	-41.14	-14	-4.60	0
47.5	-18.12	-40.66	-14	-4.12	0
47.6	-17.66	-40.20	-14	-3.66	0
47.7	-17.22	-39.75	-14	-3.22	0
47.8	-16.80	-39.33	-14	-2.80	0
47.9	-16.40	-38.93	-14	-2.40	0
48.0	-16.02	-38.55	-14	-2.02	0
48.1	-15.66	-38.19	-14	-1.66	0
48.2	-15.32	-37.86	-14	-1.32	0
48.3	-15.01	-37.54	-14	-1.01	0
48.4	-14.71	-37.25	-14	-0.71	0
48.5	-14.44	-36.98	-14	-0.44	0
48.6	-14.19	-36.73	-14	-0.19	0
48.7	-13.96	-36.49	-14	0.04	0
48.8	-13.75	-36.28	-14	0.25	0
48.9	-13.56	-36.09	-14	0.44	0
49.0	-13.39	-35.92	-14	0.61	0
49.1	-13.23	-35.77	-14	0.77	0

49.2	-13.10	-35.63	-14	0.90	0
49.3	-12.98	-35.51	-14	1.02	0
49.4	-12.88	-35.42	-14	1.12	0
49.5	-12.80	-35.33	-14	1.20	0
49.6	-12.73	-35.27	-14	1.27	0
49.7	-12.69	-35.22	-14	1.31	0
49.8	-12.65	-35.19	-14	1.35	0
49.9	-12.64	-35.17	-14	1.36	0
50.0	-12.63	-35.17	-14	1.37	0
50.1	-12.65	-35.18	-14	1.35	0
50.2	-12.67	-35.21	-14	1.33	0
50.3	-12.71	-35.25	-14	1.29	0
50.4	-12.76	-35.30	-14	1.24	0
50.5	-12.83	-35.36	-14	1.17	0
50.6	-12.90	-35.44	-14	1.10	0
50.7	-12.99	-35.53	-14	1.01	0
50.8	-13.09	-35.62	-14	0.91	0
50.9	-13.19	-35.73	-14	0.81	0
51.0	-13.30	-35.84	-14	0.70	0
51.1	-13.42	-35.96	-14	0.58	0
51.2	-13.54	-36.08	-14	0.46	0
51.3	-13.67	-36.20	-14	0.33	0
51.4	-13.80	-36.33	-14	0.20	0
51.5	-13.92	-36.46	-14	0.08	0
51.6	-14.05	-36.58	-14	-0.05	0
51.7	-14.17	-36.70	-14	-0.17	0
51.8	-14.29	-36.82	-14	-0.29	0
51.9	-14.39	-36.93	-14	-0.39	0
52.0	-14.49	-37.02	-14	-0.49	0
52.1	-14.58	-37.11	-14	-0.58	0
52.2	-14.65	-37.18	-14	-0.65	0
52.3	-14.71	-37.24	-14	-0.71	0
52.4	-14.75	-37.28	-14	-0.75	0
52.5	-14.77	-37.31	-14	-0.77	0
52.6	-14.78	-37.32	-14	-0.78	0
52.7	-14.78	-37.31	-14	-0.78	0
52.8	-14.75	-37.29	-14	-0.75	0
52.9	-14.71	-37.25	-14	-0.71	0
53.0	-14.66	-37.19	-14	-0.66	0
53.1	-14.59	-37.12	-14	-0.59	0
53.2	-14.50	-37.04	-14	-0.50	0
53.3	-14.41	-36.94	-14	-0.41	0
53.4	-14.31	-36.84	-14	-0.31	0
53.5	-14.19	-36.73	-14	-0.19	0
53.6	-14.08	-36.61	-14	-0.08	0
53.7	-13.95	-36.49	-14	0.05	0
53.8	-13.82	-36.36	-14	0.18	0
53.9	-13.69	-36.23	-14	0.31	0
54.0	-13.56	-36.09	-14	0.44	0
54.1	-13.42	-35.96	-14	0.58	0

54.2	-13.28	-35.82	-14	0.72	0
54.3	-13.15	-35.68	-14	0.85	0
54.4	-13.01	-35.55	-14	0.99	0
54.5	-12.88	-35.41	-14	1.12	0
54.6	-12.74	-35.28	-14	1.26	0
54.7	-12.61	-35.15	-14	1.39	0
54.8	-12.48	-35.02	-14	1.52	0
54.9	-12.35	-34.89	-14	1.65	0
55.0	-12.23	-34.76	-14	1.77	0
55.1	-12.10	-34.64	-14	1.90	0
55.2	-11.98	-34.52	-14	2.02	0
55.3	-11.87	-34.40	-14	2.13	0
55.4	-11.75	-34.28	-14	2.25	0
55.5	-11.64	-34.17	-14	2.36	0
55.6	-11.53	-34.06	-14	2.47	0
55.7	-11.42	-33.95	-14	2.58	0
55.8	-11.31	-33.85	-14	2.69	0
55.9	-11.21	-33.74	-14	2.79	0
56.0	-11.11	-33.65	-14	2.89	0
56.1	-11.01	-33.55	-14	2.99	0
56.2	-10.92	-33.46	-14	3.08	0
56.3	-10.83	-33.37	-14	3.17	0
56.4	-10.74	-33.28	-14	3.26	0
56.5	-10.66	-33.19	-14	3.34	0
56.6	-10.58	-33.11	-14	3.42	0
56.7	-10.50	-33.04	-14	3.50	0
56.8	-10.43	-32.96	-14	3.57	0
56.9	-10.36	-32.89	-14	3.64	0
57.0	-10.29	-32.83	-14	3.71	0
57.1	-10.23	-32.77	-14	3.77	0
57.2	-10.17	-32.71	-14	3.83	0
57.3	-10.12	-32.66	-14	3.88	0
57.4	-10.07	-32.61	-14	3.93	0
57.5	-10.02	-32.56	-14	3.98	0
57.6	-9.98	-32.52	-14	4.02	0
57.7	-9.95	-32.48	-14	4.05	0
57.8	-9.91	-32.45	-14	4.09	0
57.9	-9.88	-32.42	-14	4.12	0
58.0	-9.86	-32.39	-14	4.14	0
58.1	-9.84	-32.37	-14	4.16	0
58.2	-9.82	-32.35	-14	4.18	0
58.3	-9.80	-32.34	-14	4.20	0
58.4	-9.79	-32.33	-14	4.21	0
58.5	-9.79	-32.32	-14	4.21	0
58.6	-9.78	-32.32	-14	4.22	0
58.7	-9.79	-32.32	-14	4.21	0
58.8	-9.79	-32.32	-14	4.21	0
58.9	-9.80	-32.33	-14	4.20	0
59.0	-9.80	-32.34	-14	4.20	0
59.1	-9.82	-32.35	-14	4.18	0

59.2	-9.83	-32.37	-14	4.17	0
59.3	-9.85	-32.38	-14	4.15	0
59.4	-9.87	-32.40	-14	4.13	0
59.5	-9.88	-32.42	-14	4.12	0
59.6	-9.91	-32.44	-14	4.09	0
59.7	-9.93	-32.46	-14	4.07	0
59.8	-9.95	-32.48	-14	4.05	0
59.9	-9.97	-32.51	-14	4.03	0
60.0	-9.99	-32.53	-14	4.01	0
60.1	-10.02	-32.55	-14	3.98	0
60.2	-10.04	-32.57	-14	3.96	0
60.3	-10.06	-32.59	-14	3.94	0
60.4	-10.08	-32.61	-14	3.92	0
60.5	-10.10	-32.63	-14	3.90	0
60.6	-10.11	-32.65	-14	3.89	0
60.7	-10.13	-32.66	-14	3.87	0
60.8	-10.14	-32.68	-14	3.86	0
60.9	-10.15	-32.69	-14	3.85	0
61.0	-10.16	-32.70	-14	3.84	0
61.1	-10.17	-32.70	-14	3.83	0
61.2	-10.17	-32.71	-14	3.83	0
61.3	-10.17	-32.71	-14	3.83	0
61.4	-10.17	-32.71	-14	3.83	0
61.5	-10.17	-32.70	-14	3.83	0
61.6	-10.16	-32.70	-14	3.84	0
61.7	-10.15	-32.69	-14	3.85	0
61.8	-10.14	-32.68	-14	3.86	0
61.9	-10.13	-32.66	-14	3.87	0
62.0	-10.11	-32.65	-14	3.89	0
62.1	-10.10	-32.63	-14	3.90	0
62.2	-10.08	-32.61	-14	3.92	0
62.3	-10.06	-32.59	-14	3.94	0
62.4	-10.04	-32.57	-14	3.96	0
62.5	-10.01	-32.55	-14	3.99	0
62.6	-9.99	-32.53	-14	4.01	0
62.7	-9.97	-32.50	-14	4.03	0
62.8	-9.94	-32.48	-14	4.06	0
62.9	-9.92	-32.45	-14	4.08	0
63.0	-9.89	-32.42	-14	4.11	0
63.1	-9.86	-32.40	-14	4.14	0
63.2	-9.84	-32.37	-14	4.16	0
63.3	-9.81	-32.35	-14	4.19	0
63.4	-9.79	-32.32	-14	4.21	0
63.5	-9.76	-32.29	-14	4.24	0
63.6	-9.73	-32.27	-14	4.27	0
63.7	-9.71	-32.24	-14	4.29	0
63.8	-9.68	-32.22	-14	4.32	0
63.9	-9.66	-32.20	-14	4.34	0
64.0	-9.64	-32.17	-14	4.36	0
64.1	-9.61	-32.15	-14	4.39	0

64.2	-9.59	-32.13	-14	4.41	0
64.3	-9.57	-32.11	-14	4.43	0
64.4	-9.55	-32.08	-14	4.45	0
64.5	-9.53	-32.06	-14	4.47	0
64.6	-9.51	-32.04	-14	4.49	0
64.7	-9.49	-32.02	-14	4.51	0
64.8	-9.47	-32.01	-14	4.53	0
64.9	-9.45	-31.99	-14	4.55	0
65.0	-9.44	-31.97	-14	4.56	0
65.1	-9.42	-31.95	-14	4.58	0
65.2	-9.40	-31.94	-14	4.60	0
65.3	-9.38	-31.92	-14	4.62	0
65.4	-9.37	-31.90	-14	4.63	0
65.5	-9.35	-31.89	-14	4.65	0
65.6	-9.34	-31.87	-14	4.66	0
65.7	-9.32	-31.85	-14	4.68	0
65.8	-9.30	-31.84	-14	4.70	0
65.9	-9.29	-31.82	-14	4.71	0
66.0	-9.27	-31.81	-14	4.73	0
66.1	-9.26	-31.79	-14	4.74	0
66.2	-9.25	-31.78	-14	4.75	0
66.3	-9.23	-31.77	-14	4.77	0
66.4	-9.22	-31.75	-14	4.78	0
66.5	-9.20	-31.74	-14	4.80	0
66.6	-9.19	-31.73	-14	4.81	0
66.7	-9.18	-31.71	-14	4.82	0
66.8	-9.17	-31.70	-14	4.83	0
66.9	-9.15	-31.69	-14	4.85	0
67.0	-9.14	-31.68	-14	4.86	0
67.1	-9.13	-31.67	-14	4.87	0
67.2	-9.12	-31.66	-14	4.88	0
67.3	-9.11	-31.65	-14	4.89	0
67.4	-9.10	-31.64	-14	4.90	0
67.5	-9.10	-31.63	-14	4.90	0
67.6	-9.09	-31.62	-14	4.91	0
67.7	-9.08	-31.62	-14	4.92	0
67.8	-9.08	-31.61	-14	4.92	0
67.9	-9.08	-31.61	-14	4.92	0
68.0	-9.07	-31.61	-14	4.93	0
68.1	-9.07	-31.61	-14	4.93	0
68.2	-9.07	-31.61	-14	4.93	0
68.3	-9.07	-31.61	-14	4.93	0
68.4	-9.07	-31.61	-14	4.93	0
68.5	-9.08	-31.61	-14	4.92	0
68.6	-9.08	-31.62	-14	4.92	0
68.7	-9.09	-31.63	-14	4.91	0
68.8	-9.10	-31.63	-14	4.90	0
68.9	-9.11	-31.64	-14	4.89	0
69.0	-9.12	-31.66	-14	4.88	0
69.1	-9.13	-31.67	-14	4.87	0

69.2	-9.15	-31.68	-14	4.85	0
69.3	-9.16	-31.70	-14	4.84	0
69.4	-9.18	-31.72	-14	4.82	0
69.5	-9.20	-31.74	-14	4.80	0
69.6	-9.22	-31.76	-14	4.78	0
69.7	-9.24	-31.78	-14	4.76	0
69.8	-9.27	-31.80	-14	4.73	0
69.9	-9.29	-31.83	-14	4.71	0
70.0	-9.32	-31.85	-14	4.68	0
70.1	-9.35	-31.88	-14	4.65	0
70.2	-9.38	-31.91	-14	4.62	0
70.3	-9.41	-31.94	-14	4.59	0
70.4	-9.44	-31.97	-14	4.56	0
70.5	-9.47	-32.01	-14	4.53	0
70.6	-9.51	-32.04	-14	4.49	0
70.7	-9.54	-32.08	-14	4.46	0
70.8	-9.58	-32.11	-14	4.42	0
70.9	-9.62	-32.15	-14	4.38	0
71.0	-9.65	-32.19	-14	4.35	0
71.1	-9.69	-32.23	-14	4.31	0
71.2	-9.73	-32.27	-14	4.27	0
71.3	-9.77	-32.31	-14	4.23	0
71.4	-9.81	-32.35	-14	4.19	0
71.5	-9.85	-32.39	-14	4.15	0
71.6	-9.89	-32.43	-14	4.11	0
71.7	-9.93	-32.47	-14	4.07	0
71.8	-9.98	-32.51	-14	4.02	0
71.9	-10.02	-32.55	-14	3.98	0
72.0	-10.06	-32.59	-14	3.94	0
72.1	-10.10	-32.63	-14	3.90	0
72.2	-10.14	-32.68	-14	3.86	0
72.3	-10.18	-32.72	-14	3.82	0
72.4	-10.22	-32.76	-14	3.78	0
72.5	-10.26	-32.80	-14	3.74	0
72.6	-10.30	-32.84	-14	3.70	0
72.7	-10.34	-32.88	-14	3.66	0
72.8	-10.38	-32.92	-14	3.62	0
72.9	-10.42	-32.95	-14	3.58	0
73.0	-10.46	-32.99	-14	3.54	0
73.1	-10.49	-33.03	-14	3.51	0
73.2	-10.53	-33.06	-14	3.47	0
73.3	-10.57	-33.10	-14	3.43	0
73.4	-10.60	-33.13	-14	3.40	0
73.5	-10.63	-33.17	-14	3.37	0
73.6	-10.67	-33.20	-14	3.33	0
73.7	-10.70	-33.23	-14	3.30	0
73.8	-10.73	-33.26	-14	3.27	0
73.9	-10.76	-33.29	-14	3.24	0
74.0	-10.79	-33.32	-14	3.21	0
74.1	-10.82	-33.35	-14	3.18	0

74.2	-10.84	-33.38	-14	3.16	0
74.3	-10.87	-33.40	-14	3.13	0
74.4	-10.89	-33.43	-14	3.11	0
74.5	-10.92	-33.45	-14	3.08	0
74.6	-10.94	-33.47	-14	3.06	0
74.7	-10.96	-33.49	-14	3.04	0
74.8	-10.98	-33.51	-14	3.02	0
74.9	-11.00	-33.53	-14	3.00	0
75.0	-11.02	-33.55	-14	2.98	0
75.1	-11.03	-33.57	-14	2.97	0
75.2	-11.05	-33.58	-14	2.95	0
75.3	-11.06	-33.60	-14	2.94	0
75.4	-11.08	-33.61	-14	2.92	0
75.5	-11.09	-33.62	-14	2.91	0
75.6	-11.10	-33.64	-14	2.90	0
75.7	-11.11	-33.65	-14	2.89	0
75.8	-11.12	-33.65	-14	2.88	0
75.9	-11.13	-33.66	-14	2.87	0
76.0	-11.13	-33.67	-14	2.87	0
76.1	-11.14	-33.67	-14	2.86	0
76.2	-11.14	-33.68	-14	2.86	0
76.3	-11.14	-33.68	-14	2.86	0
76.4	-11.15	-33.68	-14	2.85	0
76.5	-11.15	-33.68	-14	2.85	0
76.6	-11.14	-33.68	-14	2.86	0
76.7	-11.14	-33.68	-14	2.86	0
76.8	-11.14	-33.67	-14	2.86	0
76.9	-11.13	-33.67	-14	2.87	0
77.0	-11.12	-33.66	-14	2.88	0
77.1	-11.12	-33.65	-14	2.88	0
77.2	-11.11	-33.64	-14	2.89	0
77.3	-11.10	-33.63	-14	2.90	0
77.4	-11.09	-33.62	-14	2.91	0
77.5	-11.07	-33.61	-14	2.93	0
77.6	-11.06	-33.59	-14	2.94	0
77.7	-11.04	-33.58	-14	2.96	0
77.8	-11.03	-33.56	-14	2.97	0
77.9	-11.01	-33.55	-14	2.99	0
78.0	-10.99	-33.53	-14	3.01	0
78.1	-10.98	-33.51	-14	3.02	0
78.2	-10.96	-33.49	-14	3.04	0
78.3	-10.94	-33.47	-14	3.06	0
78.4	-10.92	-33.45	-14	3.08	0
78.5	-10.89	-33.43	-14	3.11	0
78.6	-10.87	-33.41	-14	3.13	0
78.7	-10.85	-33.39	-14	3.15	0
78.8	-10.83	-33.36	-14	3.17	0
78.9	-10.81	-33.34	-14	3.19	0
79.0	-10.78	-33.32	-14	3.22	0
79.1	-10.76	-33.29	-14	3.24	0

79.2	-10.74	-33.27	-14	3.26	0
79.3	-10.71	-33.25	-14	3.29	0
79.4	-10.69	-33.23	-14	3.31	0
79.5	-10.67	-33.20	-14	3.33	0
79.6	-10.65	-33.18	-14	3.35	0
79.7	-10.63	-33.16	-14	3.37	0
79.8	-10.60	-33.14	-14	3.40	0
79.9	-10.58	-33.12	-14	3.42	0
80.0	-10.56	-33.10	-14	3.44	0
80.1	-10.55	-33.08	-14	3.45	0
80.2	-10.53	-33.06	-14	3.47	0
80.3	-10.51	-33.05	-14	3.49	0
80.4	-10.50	-33.03	-14	3.50	0
80.5	-10.48	-33.02	-14	3.52	0
80.6	-10.47	-33.01	-14	3.53	0
80.7	-10.46	-32.99	-14	3.54	0
80.8	-10.45	-32.98	-14	3.55	0
80.9	-10.44	-32.98	-14	3.56	0
81.0	-10.43	-32.97	-14	3.57	0
81.1	-10.43	-32.96	-14	3.57	0
81.2	-10.43	-32.96	-14	3.57	0
81.3	-10.42	-32.96	-14	3.58	0
81.4	-10.43	-32.96	-14	3.57	0
81.5	-10.43	-32.96	-14	3.57	0
81.6	-10.43	-32.97	-14	3.57	0
81.7	-10.44	-32.97	-14	3.56	0
81.8	-10.45	-32.98	-14	3.55	0
81.9	-10.46	-32.99	-14	3.54	0
82.0	-10.47	-33.01	-14	3.53	0
82.1	-10.49	-33.02	-14	3.51	0
82.2	-10.51	-33.04	-14	3.49	0
82.3	-10.53	-33.06	-14	3.47	0
82.4	-10.55	-33.08	-14	3.45	0
82.5	-10.57	-33.11	-14	3.43	0
82.6	-10.60	-33.14	-14	3.40	0
82.7	-10.63	-33.17	-14	3.37	0
82.8	-10.67	-33.20	-14	3.33	0
82.9	-10.70	-33.24	-14	3.30	0
83.0	-10.74	-33.27	-14	3.26	0
83.1	-10.78	-33.31	-14	3.22	0
83.2	-10.82	-33.36	-14	3.18	0
83.3	-10.87	-33.40	-14	3.13	0
83.4	-10.92	-33.45	-14	3.08	0
83.5	-10.97	-33.50	-14	3.03	0
83.6	-11.02	-33.56	-14	2.98	0
83.7	-11.08	-33.61	-14	2.92	0
83.8	-11.14	-33.67	-14	2.86	0
83.9	-11.20	-33.74	-14	2.80	0
84.0	-11.27	-33.80	-14	2.73	0
84.1	-11.33	-33.87	-14	2.67	0

84.2	-11.40	-33.94	-14	2.60	0
84.3	-11.48	-34.01	-14	2.52	0
84.4	-11.55	-34.08	-14	2.45	0
84.5	-11.63	-34.16	-14	2.37	0
84.6	-11.71	-34.24	-14	2.29	0
84.7	-11.79	-34.32	-14	2.21	0
84.8	-11.87	-34.41	-14	2.13	0
84.9	-11.96	-34.50	-14	2.04	0
85.0	-12.05	-34.58	-14	1.95	0
85.1	-12.14	-34.67	-14	1.86	0
85.2	-12.23	-34.77	-14	1.77	0
85.3	-12.33	-34.86	-14	1.67	0
85.4	-12.42	-34.96	-14	1.58	0
85.5	-12.52	-35.06	-14	1.48	0
85.6	-12.62	-35.15	-14	1.38	0
85.7	-12.72	-35.25	-14	1.28	0
85.8	-12.82	-35.35	-14	1.18	0
85.9	-12.92	-35.46	-14	1.08	0
86.0	-13.02	-35.56	-14	0.98	0
86.1	-13.12	-35.66	-14	0.88	0
86.2	-13.23	-35.76	-14	0.77	0
86.3	-13.33	-35.86	-14	0.67	0
86.4	-13.43	-35.96	-14	0.57	0
86.5	-13.53	-36.06	-14	0.47	0
86.6	-13.63	-36.16	-14	0.37	0
86.7	-13.73	-36.26	-14	0.27	0
86.8	-13.82	-36.36	-14	0.18	0
86.9	-13.91	-36.45	-14	0.09	0
87.0	-14.00	-36.54	-14	0.00	0
87.1	-14.09	-36.63	-14	-0.09	0
87.2	-14.18	-36.71	-14	-0.18	0
87.3	-14.26	-36.79	-14	-0.26	0
87.4	-14.33	-36.87	-14	-0.33	0
87.5	-14.40	-36.94	-14	-0.40	0
87.6	-14.47	-37.01	-14	-0.47	0
87.7	-14.53	-37.07	-14	-0.53	0
87.8	-14.59	-37.12	-14	-0.59	0
87.9	-14.64	-37.18	-14	-0.64	0
88.0	-14.69	-37.22	-14	-0.69	0
88.1	-14.73	-37.26	-14	-0.73	0
88.2	-14.76	-37.30	-14	-0.76	0
88.3	-14.79	-37.33	-14	-0.79	0
88.4	-14.82	-37.35	-14	-0.82	0
88.5	-14.83	-37.37	-14	-0.83	0
88.6	-14.84	-37.38	-14	-0.84	0
88.7	-14.85	-37.38	-14	-0.85	0
88.8	-14.85	-37.38	-14	-0.85	0
88.9	-14.85	-37.38	-14	-0.85	0
89.0	-14.84	-37.37	-14	-0.84	0
89.1	-14.82	-37.36	-14	-0.82	0

89.2	-14.80	-37.34	-14	-0.80	0
89.3	-14.78	-37.32	-14	-0.78	0
89.4	-14.76	-37.29	-14	-0.76	0
89.5	-14.73	-37.26	-14	-0.73	0
89.6	-14.69	-37.23	-14	-0.69	0
89.7	-14.66	-37.19	-14	-0.66	0
89.8	-14.62	-37.16	-14	-0.62	0
89.9	-14.59	-37.12	-14	-0.59	0
90.0	-14.55	-37.08	-14	-0.55	0
90.1	-14.51	-37.04	-14	-0.51	0
90.2	-14.47	-37.00	-14	-0.47	0
90.3	-14.43	-36.96	-14	-0.43	0
90.4	-14.39	-36.92	-14	-0.39	0
90.5	-14.35	-36.88	-14	-0.35	0
90.6	-14.31	-36.84	-14	-0.31	0
90.7	-14.27	-36.81	-14	-0.27	0
90.8	-14.24	-36.77	-14	-0.24	0
90.9	-14.20	-36.74	-14	-0.20	0
91.0	-14.17	-36.71	-14	-0.17	0
91.1	-14.14	-36.68	-14	-0.14	0
91.2	-14.12	-36.65	-14	-0.12	0
91.3	-14.09	-36.63	-14	-0.09	0
91.4	-14.07	-36.61	-14	-0.07	0
91.5	-14.06	-36.59	-14	-0.06	0
91.6	-14.04	-36.58	-14	-0.04	0
91.7	-14.03	-36.57	-14	-0.03	0
91.8	-14.03	-36.56	-14	-0.03	0
91.9	-14.03	-36.56	-14	-0.03	0
92.0	-14.03	-36.56	-14	-0.03	0
92.1	-14.04	-36.57	-14	-0.04	0
92.2	-14.05	-36.58	-14	-0.05	0
92.3	-14.06	-36.60	-14	-0.06	0
92.4	-14.08	-36.62	-14	-0.08	0
92.5	-14.11	-36.64	-14	-0.11	0
92.6	-14.14	-36.68	-14	-0.14	0
92.7	-14.18	-36.71	-14	-0.18	0
92.8	-14.22	-36.75	-14	-0.22	0
92.9	-14.26	-36.80	-14	-0.26	0
93.0	-14.32	-36.85	-14	-0.32	0
93.1	-14.37	-36.91	-14	-0.37	0
93.2	-14.44	-36.97	-14	-0.44	0
93.3	-14.51	-37.04	-14	-0.51	0
93.4	-14.58	-37.12	-14	-0.58	0
93.5	-14.66	-37.20	-14	-0.66	0
93.6	-14.75	-37.28	-14	-0.75	0
93.7	-14.84	-37.38	-14	-0.84	0
93.8	-14.94	-37.48	-14	-0.94	0
93.9	-15.05	-37.58	-14	-1.05	0
94.0	-15.16	-37.69	-14	-1.16	0
94.1	-15.28	-37.81	-14	-1.28	0

94.2	-15.40	-37.94	-14	-1.40	0
94.3	-15.53	-38.07	-14	-1.53	0
94.4	-15.67	-38.21	-14	-1.67	0
94.5	-15.82	-38.35	-14	-1.82	0
94.6	-15.97	-38.50	-14	-1.97	0
94.7	-16.13	-38.66	-14	-2.13	0
94.8	-16.29	-38.82	-14	-2.29	0
94.9	-16.46	-39.00	-14	-2.46	0
95.0	-16.64	-39.17	-14	-2.64	0
95.1	-16.82	-39.36	-14	-2.82	0
95.2	-17.01	-39.54	-14	-3.01	0
95.3	-17.20	-39.74	-14	-3.20	0
95.4	-17.40	-39.94	-14	-3.40	0
95.5	-17.61	-40.14	-14	-3.61	0
95.6	-17.81	-40.35	-14	-3.81	0
95.7	-18.03	-40.56	-14	-4.03	0
95.8	-18.24	-40.77	-14	-4.24	0
95.9	-18.45	-40.99	-14	-4.45	0
96.0	-18.67	-41.20	-14	-4.67	0
96.1	-18.88	-41.42	-14	-4.88	0
96.2	-19.09	-41.63	-14	-5.09	0
96.3	-19.30	-41.83	-14	-5.30	0
96.4	-19.50	-42.03	-14	-5.50	0
96.5	-19.69	-42.23	-14	-5.69	0
96.6	-19.87	-42.41	-14	-5.87	0
96.7	-20.04	-42.57	-14	-6.04	0
96.8	-20.19	-42.73	-14	-6.19	0
96.9	-20.33	-42.86	-14	-6.33	0
97.0	-20.44	-42.98	-14	-6.44	0
97.1	-20.54	-43.07	-14	-6.54	0
97.2	-20.61	-43.14	-14	-6.61	0
97.3	-20.65	-43.19	-14	-6.65	0
97.4	-20.68	-43.21	-14	-6.68	0
97.5	-20.67	-43.21	-14	-6.67	0
97.6	-20.65	-43.18	-14	-6.65	0
97.7	-20.60	-43.13	-14	-6.60	0
97.8	-20.53	-43.06	-14	-6.53	0
97.9	-20.44	-42.97	-14	-6.44	0
98.0	-20.33	-42.86	-14	-6.33	0
98.1	-20.21	-42.74	-14	-6.21	0
98.2	-20.07	-42.61	-14	-6.07	0
98.3	-19.93	-42.46	-14	-5.93	0
98.4	-19.77	-42.31	-14	-5.77	0
98.5	-19.61	-42.15	-14	-5.61	0
98.6	-19.45	-41.99	-14	-5.45	0
98.7	-19.29	-41.82	-14	-5.29	0
98.8	-19.12	-41.66	-14	-5.12	0
98.9	-18.96	-41.49	-14	-4.96	0
99.0	-18.80	-41.33	-14	-4.80	0
99.1	-18.64	-41.17	-14	-4.64	0

99.2	-18.49	-41.02	-14	-4.49	0
99.3	-18.34	-40.87	-14	-4.34	0
99.4	-18.20	-40.73	-14	-4.20	0
99.5	-18.06	-40.60	-14	-4.06	0
99.6	-17.94	-40.47	-14	-3.94	0
99.7	-17.82	-40.35	-14	-3.82	0
99.8	-17.70	-40.24	-14	-3.70	0
99.9	-17.60	-40.14	-14	-3.60	0
100.0	-17.51	-40.04	-14	-3.51	0
100.1	-17.42	-39.96	-14	-3.42	0
100.2	-17.34	-39.88	-14	-3.34	0
100.3	-17.28	-39.81	-14	-3.28	0
100.4	-17.22	-39.75	-14	-3.22	0
100.5	-17.17	-39.71	-14	-3.17	0
100.6	-17.13	-39.67	-14	-3.13	0
100.7	-17.10	-39.64	-14	-3.10	0
100.8	-17.09	-39.62	-14	-3.09	0
100.9	-17.08	-39.61	-14	-3.08	0
101.0	-17.08	-39.61	-14	-3.08	0
101.1	-17.09	-39.63	-14	-3.09	0
101.2	-17.11	-39.65	-14	-3.11	0
101.3	-17.15	-39.68	-14	-3.15	0
101.4	-17.19	-39.73	-14	-3.19	0
101.5	-17.25	-39.78	-14	-3.25	0
101.6	-17.31	-39.85	-14	-3.31	0
101.7	-17.39	-39.93	-14	-3.39	0
101.8	-17.48	-40.02	-14	-3.48	0
101.9	-17.59	-40.12	-14	-3.59	0
102.0	-17.70	-40.23	-14	-3.70	0
102.1	-17.83	-40.36	-14	-3.83	0
102.2	-17.97	-40.50	-14	-3.97	0
102.3	-18.12	-40.65	-14	-4.12	0
102.4	-18.29	-40.82	-14	-4.29	0
102.5	-18.47	-41.00	-14	-4.47	0
102.6	-18.66	-41.19	-14	-4.66	0
102.7	-18.87	-41.40	-14	-4.87	0
102.8	-19.09	-41.63	-14	-5.09	0
102.9	-19.33	-41.87	-14	-5.33	0
103.0	-19.59	-42.12	-14	-5.59	0
103.1	-19.86	-42.39	-14	-5.86	0
103.2	-20.15	-42.68	-14	-6.15	0
103.3	-20.45	-42.99	-14	-6.45	0
103.4	-20.78	-43.31	-14	-6.78	0
103.5	-21.12	-43.65	-14	-7.12	0
103.6	-21.48	-44.01	-14	-7.48	0
103.7	-21.85	-44.38	-14	-7.85	0
103.8	-22.24	-44.78	-14	-8.24	0
103.9	-22.65	-45.18	-14	-8.65	0
104.0	-23.06	-45.60	-14	-9.06	0
104.1	-23.49	-46.03	-14	-9.49	0

104.2	-23.93	-46.46	-14	-9.93	0
104.3	-24.36	-46.90	-14	-10.36	0
104.4	-24.79	-47.32	-14	-10.79	0
104.5	-25.19	-47.73	-14	-11.19	0
104.6	-25.57	-48.10	-14	-11.57	0
104.7	-25.90	-48.43	-14	-11.90	0
104.8	-26.17	-48.70	-14	-12.17	0
104.9	-26.36	-48.89	-14	-12.36	0
105.0	-26.47	-49.00	-14	-12.47	0
105.1	-26.49	-49.02	-14	-12.49	0
105.2	-26.41	-48.95	-14	-12.41	0
105.3	-26.25	-48.79	-14	-12.25	0
105.4	-26.02	-48.55	-14	-12.02	0
105.5	-25.72	-48.26	-14	-11.72	0
105.6	-25.39	-47.92	-14	-11.39	0
105.7	-25.02	-47.55	-14	-11.02	0
105.8	-24.63	-47.17	-14	-10.63	0
105.9	-24.24	-46.78	-14	-10.24	0
106.0	-23.85	-46.38	-14	-9.85	0
106.1	-23.46	-46.00	-14	-9.46	0
106.2	-23.09	-45.62	-14	-9.09	0
106.3	-22.73	-45.26	-14	-8.73	0
106.4	-22.38	-44.92	-14	-8.38	0
106.5	-22.05	-44.59	-14	-8.05	0
106.6	-21.75	-44.28	-14	-7.75	0
106.7	-21.46	-43.99	-14	-7.46	0
106.8	-21.18	-43.72	-14	-7.18	0
106.9	-20.93	-43.47	-14	-6.93	0
107.0	-20.70	-43.23	-14	-6.70	0
107.1	-20.48	-43.02	-14	-6.48	0
107.2	-20.29	-42.82	-14	-6.29	0
107.3	-20.11	-42.64	-14	-6.11	0
107.4	-19.95	-42.48	-14	-5.95	0
107.5	-19.80	-42.34	-14	-5.80	0
107.6	-19.68	-42.21	-14	-5.68	0
107.7	-19.57	-42.10	-14	-5.57	0
107.8	-19.47	-42.01	-14	-5.47	0
107.9	-19.40	-41.93	-14	-5.40	0
108.0	-19.34	-41.87	-14	-5.34	0
108.1	-19.30	-41.83	-14	-5.30	0
108.2	-19.27	-41.80	-14	-5.27	0
108.3	-19.26	-41.79	-14	-5.26	0
108.4	-19.27	-41.80	-14	-5.27	0
108.5	-19.29	-41.82	-14	-5.29	0
108.6	-19.33	-41.86	-14	-5.33	0
108.7	-19.38	-41.92	-14	-5.38	0
108.8	-19.45	-41.99	-14	-5.45	0
108.9	-19.54	-42.08	-14	-5.54	0
109.0	-19.65	-42.18	-14	-5.65	0
109.1	-19.77	-42.30	-14	-5.77	0

109.2	-19.91	-42.45	-14	-5.91	0
109.3	-20.07	-42.60	-14	-6.07	0
109.4	-20.25	-42.78	-14	-6.25	0
109.5	-20.44	-42.98	-14	-6.44	0
109.6	-20.66	-43.19	-14	-6.66	0
109.7	-20.89	-43.42	-14	-6.89	0
109.8	-21.14	-43.68	-14	-7.14	0
109.9	-21.42	-43.95	-14	-7.42	0
110.0	-21.71	-44.25	-14	-7.71	0
110.1	-22.03	-44.57	-14	-8.03	0
110.2	-22.37	-44.91	-14	-8.37	0
110.3	-22.73	-45.27	-14	-8.73	0
110.4	-23.11	-45.65	-14	-9.11	0
110.5	-23.52	-46.05	-14	-9.52	0
110.6	-23.94	-46.48	-14	-9.94	0
110.7	-24.38	-46.92	-14	-10.38	0
110.8	-24.84	-47.38	-14	-10.84	0
110.9	-25.31	-47.84	-14	-11.31	0
111.0	-25.78	-48.32	-14	-11.78	0
111.1	-26.25	-48.78	-14	-12.25	0
111.2	-26.70	-49.23	-14	-12.70	0
111.3	-27.12	-49.65	-14	-13.12	0
111.4	-27.49	-50.02	-14	-13.49	0
111.5	-27.79	-50.33	-14	-13.79	0
111.6	-28.01	-50.54	-14	-14.01	0
111.7	-28.12	-50.65	-14	-14.12	0
111.8	-28.13	-50.66	-14	-14.13	0
111.9	-28.03	-50.56	-14	-14.03	0
112.0	-27.83	-50.37	-14	-13.83	0
112.1	-27.56	-50.09	-14	-13.56	0
112.2	-27.22	-49.76	-14	-13.22	0
112.3	-26.85	-49.38	-14	-12.85	0
112.4	-26.45	-48.98	-14	-12.45	0
112.5	-26.04	-48.57	-14	-12.04	0
112.6	-25.62	-48.16	-14	-11.62	0
112.7	-25.22	-47.75	-14	-11.22	0
112.8	-24.83	-47.36	-14	-10.83	0
112.9	-24.46	-46.99	-14	-10.46	0
113.0	-24.10	-46.64	-14	-10.10	0
113.1	-23.77	-46.31	-14	-9.77	0
113.2	-23.46	-46.00	-14	-9.46	0
113.3	-23.18	-45.71	-14	-9.18	0
113.4	-22.91	-45.45	-14	-8.91	0
113.5	-22.67	-45.20	-14	-8.67	0
113.6	-22.45	-44.98	-14	-8.45	0
113.7	-22.25	-44.79	-14	-8.25	0
113.8	-22.07	-44.61	-14	-8.07	0
113.9	-21.92	-44.45	-14	-7.92	0
114.0	-21.78	-44.32	-14	-7.78	0
114.1	-21.67	-44.20	-14	-7.67	0

114.2	-21.57	-44.10	-14	-7.57	0
114.3	-21.49	-44.02	-14	-7.49	0
114.4	-21.43	-43.97	-14	-7.43	0
114.5	-21.39	-43.92	-14	-7.39	0
114.6	-21.37	-43.90	-14	-7.37	0
114.7	-21.36	-43.89	-14	-7.36	0
114.8	-21.37	-43.90	-14	-7.37	0
114.9	-21.40	-43.93	-14	-7.40	0
115.0	-21.44	-43.97	-14	-7.44	0
115.1	-21.50	-44.03	-14	-7.50	0
115.2	-21.57	-44.11	-14	-7.57	0
115.3	-21.66	-44.20	-14	-7.66	0
115.4	-21.77	-44.30	-14	-7.77	0
115.5	-21.88	-44.42	-14	-7.88	0
115.6	-22.02	-44.55	-14	-8.02	0
115.7	-22.16	-44.69	-14	-8.16	0
115.8	-22.31	-44.85	-14	-8.31	0
115.9	-22.48	-45.02	-14	-8.48	0
116.0	-22.66	-45.19	-14	-8.66	0
116.1	-22.84	-45.38	-14	-8.84	0
116.2	-23.03	-45.57	-14	-9.03	0
116.3	-23.23	-45.76	-14	-9.23	0
116.4	-23.43	-45.96	-14	-9.43	0
116.5	-23.63	-46.17	-14	-9.63	0
116.6	-23.83	-46.37	-14	-9.83	0
116.7	-24.03	-46.57	-14	-10.03	0
116.8	-24.23	-46.76	-14	-10.23	0
116.9	-24.41	-46.95	-14	-10.41	0
117.0	-24.59	-47.12	-14	-10.59	0
117.1	-24.75	-47.28	-14	-10.75	0
117.2	-24.90	-47.43	-14	-10.90	0
117.3	-25.03	-47.56	-14	-11.03	0
117.4	-25.14	-47.67	-14	-11.14	0
117.5	-25.23	-47.76	-14	-11.23	0
117.6	-25.30	-47.83	-14	-11.30	0
117.7	-25.35	-47.89	-14	-11.35	0
117.8	-25.39	-47.92	-14	-11.39	0
117.9	-25.40	-47.94	-14	-11.40	0
118.0	-25.40	-47.94	-14	-11.40	0
118.1	-25.39	-47.93	-14	-11.39	0
118.2	-25.37	-47.90	-14	-11.37	0
118.3	-25.34	-47.87	-14	-11.34	0
118.4	-25.30	-47.83	-14	-11.30	0
118.5	-25.26	-47.79	-14	-11.26	0
118.6	-25.22	-47.75	-14	-11.22	0
118.7	-25.18	-47.71	-14	-11.18	0
118.8	-25.14	-47.67	-14	-11.14	0
118.9	-25.10	-47.64	-14	-11.10	0
119.0	-25.07	-47.61	-14	-11.07	0
119.1	-25.05	-47.58	-14	-11.05	0

119.2	-25.03	-47.57	-14	-11.03	0
119.3	-25.02	-47.56	-14	-11.02	0
119.4	-25.02	-47.56	-14	-11.02	0
119.5	-25.03	-47.56	-14	-11.03	0
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119.8	-25.08	-47.61	-14	-11.08	0
119.9	-25.10	-47.64	-14	-11.10	0
120.0	-25.13	-47.67	-14	-11.13	0
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120.2	-25.19	-47.73	-14	-11.19	0
120.3	-25.22	-47.75	-14	-11.22	0
120.4	-25.24	-47.77	-14	-11.24	0
120.5	-25.25	-47.79	-14	-11.25	0
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120.7	-25.25	-47.79	-14	-11.25	0
120.8	-25.24	-47.77	-14	-11.24	0
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121.0	-25.16	-47.69	-14	-11.16	0
121.1	-25.10	-47.63	-14	-11.10	0
121.2	-25.03	-47.56	-14	-11.03	0
121.3	-24.94	-47.47	-14	-10.94	0
121.4	-24.84	-47.37	-14	-10.84	0
121.5	-24.73	-47.26	-14	-10.73	0
121.6	-24.61	-47.14	-14	-10.61	0
121.7	-24.48	-47.01	-14	-10.48	0
121.8	-24.34	-46.88	-14	-10.34	0
121.9	-24.21	-46.74	-14	-10.21	0
122.0	-24.07	-46.61	-14	-10.07	0
122.1	-23.94	-46.47	-14	-9.94	0
122.2	-23.80	-46.34	-14	-9.80	0
122.3	-23.68	-46.21	-14	-9.68	0
122.4	-23.56	-46.09	-14	-9.56	0
122.5	-23.45	-45.99	-14	-9.45	0
122.6	-23.35	-45.89	-14	-9.35	0
122.7	-23.27	-45.80	-14	-9.27	0
122.8	-23.20	-45.73	-14	-9.20	0
122.9	-23.14	-45.67	-14	-9.14	0
123.0	-23.10	-45.63	-14	-9.10	0
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123.2	-23.07	-45.60	-14	-9.07	0
123.3	-23.08	-45.62	-14	-9.08	0
123.4	-23.11	-45.65	-14	-9.11	0
123.5	-23.17	-45.70	-14	-9.17	0
123.6	-23.24	-45.78	-14	-9.24	0
123.7	-23.34	-45.87	-14	-9.34	0
123.8	-23.46	-45.99	-14	-9.46	0
123.9	-23.60	-46.13	-14	-9.60	0
124.0	-23.76	-46.30	-14	-9.76	0
124.1	-23.96	-46.49	-14	-9.96	0

124.2	-24.17	-46.70	-14	-10.17	0
124.3	-24.41	-46.95	-14	-10.41	0
124.4	-24.68	-47.21	-14	-10.68	0
124.5	-24.97	-47.50	-14	-10.97	0
124.6	-25.28	-47.82	-14	-11.28	0
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124.8	-25.98	-48.52	-14	-11.98	0
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125.2	-27.58	-50.11	-14	-13.58	0
125.3	-27.97	-50.51	-14	-13.97	0
125.4	-28.35	-50.88	-14	-14.35	0
125.5	-28.69	-51.22	-14	-14.69	0
125.6	-28.97	-51.50	-14	-14.97	0
125.7	-29.17	-51.71	-14	-15.17	0
125.8	-29.30	-51.83	-14	-15.30	0
125.9	-29.32	-51.86	-14	-15.32	0
126.0	-29.25	-51.78	-14	-15.25	0
126.1	-29.09	-51.62	-14	-15.09	0
126.2	-28.85	-51.39	-14	-14.85	0
126.3	-28.56	-51.10	-14	-14.56	0
126.4	-28.23	-50.76	-14	-14.23	0
126.5	-27.87	-50.40	-14	-13.87	0
126.6	-27.50	-50.03	-14	-13.50	0
126.7	-27.12	-49.66	-14	-13.12	0
126.8	-26.76	-49.30	-14	-12.76	0
126.9	-26.42	-48.95	-14	-12.42	0
127.0	-26.09	-48.62	-14	-12.09	0
127.1	-25.78	-48.31	-14	-11.78	0
127.2	-25.50	-48.03	-14	-11.50	0
127.3	-25.24	-47.77	-14	-11.24	0
127.4	-25.00	-47.54	-14	-11.00	0
127.5	-24.79	-47.33	-14	-10.79	0
127.6	-24.61	-47.14	-14	-10.61	0
127.7	-24.45	-46.98	-14	-10.45	0
127.8	-24.31	-46.84	-14	-10.31	0
127.9	-24.19	-46.72	-14	-10.19	0
128.0	-24.09	-46.63	-14	-10.09	0
128.1	-24.01	-46.55	-14	-10.01	0
128.2	-23.95	-46.49	-14	-9.95	0
128.3	-23.91	-46.45	-14	-9.91	0
128.4	-23.88	-46.42	-14	-9.88	0
128.5	-23.87	-46.40	-14	-9.87	0
128.6	-23.87	-46.40	-14	-9.87	0
128.7	-23.88	-46.41	-14	-9.88	0
128.8	-23.89	-46.43	-14	-9.89	0
128.9	-23.92	-46.45	-14	-9.92	0
129.0	-23.95	-46.48	-14	-9.95	0
129.1	-23.98	-46.52	-14	-9.98	0

129.2	-24.02	-46.56	-14	-10.02	0
129.3	-24.06	-46.59	-14	-10.06	0
129.4	-24.10	-46.64	-14	-10.10	0
129.5	-24.14	-46.68	-14	-10.14	0
129.6	-24.18	-46.72	-14	-10.18	0
129.7	-24.23	-46.76	-14	-10.23	0
129.8	-24.27	-46.81	-14	-10.27	0
129.9	-24.32	-46.85	-14	-10.32	0
130.0	-24.37	-46.90	-14	-10.37	0
130.1	-24.42	-46.96	-14	-10.42	0
130.2	-24.49	-47.02	-14	-10.49	0
130.3	-24.56	-47.10	-14	-10.56	0
130.4	-24.65	-47.19	-14	-10.65	0
130.5	-24.75	-47.29	-14	-10.75	0
130.6	-24.88	-47.41	-14	-10.88	0
130.7	-25.02	-47.56	-14	-11.02	0
130.8	-25.20	-47.73	-14	-11.20	0
130.9	-25.40	-47.94	-14	-11.40	0
131.0	-25.64	-48.18	-14	-11.64	0
131.1	-25.92	-48.45	-14	-11.92	0
131.2	-26.24	-48.78	-14	-12.24	0
131.3	-26.62	-49.15	-14	-12.62	0
131.4	-27.05	-49.59	-14	-13.05	0
131.5	-27.55	-50.09	-14	-13.55	0
131.6	-28.13	-50.66	-14	-14.13	0
131.7	-28.78	-51.32	-14	-14.78	0
131.8	-29.53	-52.07	-14	-15.53	0
131.9	-30.39	-52.92	-14	-16.39	0
132.0	-31.35	-53.88	-14	-17.35	0
132.1	-32.41	-54.94	-14	-18.41	0
132.2	-33.50	-56.04	-14	-19.50	0
132.3	-34.51	-57.04	-14	-20.51	0
132.4	-35.18	-57.71	-14	-21.18	0
132.5	-35.22	-57.76	-14	-21.22	0
132.6	-34.56	-57.10	-14	-20.56	0
132.7	-33.41	-55.94	-14	-19.41	0
132.8	-32.06	-54.59	-14	-18.06	0
132.9	-30.70	-53.23	-14	-16.70	0
133.0	-29.42	-51.95	-14	-15.42	0
133.1	-28.24	-50.78	-14	-14.24	0
133.2	-27.17	-49.71	-14	-13.17	0
133.3	-26.21	-48.75	-14	-12.21	0
133.4	-25.34	-47.88	-14	-11.34	0
133.5	-24.56	-47.09	-14	-10.56	0
133.6	-23.85	-46.39	-14	-9.85	0
133.7	-23.22	-45.75	-14	-9.22	0
133.8	-22.65	-45.18	-14	-8.65	0
133.9	-22.13	-44.67	-14	-8.13	0
134.0	-21.68	-44.21	-14	-7.68	0
134.1	-21.27	-43.81	-14	-7.27	0

134.2	-20.91	-43.45	-14	-6.91	0
134.3	-20.60	-43.14	-14	-6.60	0
134.4	-20.34	-42.87	-14	-6.34	0
134.5	-20.12	-42.65	-14	-6.12	0
134.6	-19.94	-42.47	-14	-5.94	0
134.7	-19.80	-42.34	-14	-5.80	0
134.8	-19.71	-42.24	-14	-5.71	0
134.9	-19.66	-42.19	-14	-5.66	0
135.0	-19.65	-42.18	-14	-5.65	0
135.1	-19.68	-42.21	-14	-5.68	0
135.2	-19.75	-42.29	-14	-5.75	0
135.3	-19.88	-42.41	-14	-5.88	0
135.4	-20.05	-42.58	-14	-6.05	0
135.5	-20.26	-42.80	-14	-6.26	0
135.6	-20.54	-43.07	-14	-6.54	0
135.7	-20.86	-43.40	-14	-6.86	0
135.8	-21.25	-43.79	-14	-7.25	0
135.9	-21.71	-44.25	-14	-7.71	0
136.0	-22.24	-44.78	-14	-8.24	0
136.1	-22.86	-45.39	-14	-8.86	0
136.2	-23.57	-46.11	-14	-9.57	0
136.3	-24.39	-46.93	-14	-10.39	0
136.4	-25.35	-47.88	-14	-11.35	0
136.5	-26.46	-48.99	-14	-12.46	0
136.6	-27.76	-50.30	-14	-13.76	0
136.7	-29.29	-51.83	-14	-15.29	0
136.8	-31.08	-53.61	-14	-17.08	0
136.9	-33.07	-55.60	-14	-19.07	0
137.0	-34.90	-57.43	-14	-20.90	0
137.1	-35.59	-58.12	-14	-21.59	0
137.2	-34.53	-57.07	-14	-20.53	0
137.3	-32.60	-55.13	-14	-18.60	0
137.4	-30.63	-53.16	-14	-16.63	0
137.5	-28.89	-51.43	-14	-14.89	0
137.6	-27.41	-49.94	-14	-13.41	0
137.7	-26.15	-48.68	-14	-12.15	0
137.8	-25.07	-47.60	-14	-11.07	0
137.9	-24.14	-46.68	-14	-10.14	0
138.0	-23.34	-45.88	-14	-9.34	0
138.1	-22.66	-45.19	-14	-8.66	0
138.2	-22.06	-44.60	-14	-8.06	0
138.3	-21.56	-44.09	-14	-7.56	0
138.4	-21.12	-43.66	-14	-7.12	0
138.5	-20.76	-43.30	-14	-6.76	0
138.6	-20.46	-43.00	-14	-6.46	0
138.7	-20.23	-42.76	-14	-6.23	0
138.8	-20.04	-42.58	-14	-6.04	0
138.9	-19.92	-42.45	-14	-5.92	0
139.0	-19.84	-42.38	-14	-5.84	0
139.1	-19.82	-42.35	-14	-5.82	0

139.2	-19.85	-42.38	-14	-5.85	0
139.3	-19.93	-42.46	-14	-5.93	0
139.4	-20.06	-42.59	-14	-6.06	0
139.5	-20.24	-42.77	-14	-6.24	0
139.6	-20.47	-43.00	-14	-6.47	0
139.7	-20.76	-43.29	-14	-6.76	0
139.8	-21.10	-43.63	-14	-7.10	0
139.9	-21.50	-44.03	-14	-7.50	0
140.0	-21.96	-44.50	-14	-7.96	0
140.1	-22.49	-45.02	-14	-8.49	0
140.2	-23.08	-45.62	-14	-9.08	0
140.3	-23.75	-46.29	-14	-9.75	0
140.4	-24.50	-47.03	-14	-10.50	0
140.5	-25.33	-47.86	-14	-11.33	0
140.6	-26.24	-48.77	-14	-12.24	0
140.7	-27.23	-49.76	-14	-13.23	0
140.8	-28.28	-50.81	-14	-14.28	0
140.9	-29.35	-51.89	-14	-15.35	0
141.0	-30.38	-52.91	-14	-16.38	0
141.1	-31.24	-53.78	-14	-17.24	0
141.2	-31.80	-54.33	-14	-17.80	0
141.3	-31.93	-54.47	-14	-17.93	0
141.4	-31.67	-54.21	-14	-17.67	0
141.5	-31.14	-53.67	-14	-17.14	0
141.6	-30.46	-53.00	-14	-16.46	0
141.7	-29.77	-52.31	-14	-15.77	0
141.8	-29.12	-51.66	-14	-15.12	0
141.9	-28.55	-51.08	-14	-14.55	0
142.0	-28.07	-50.60	-14	-14.07	0
142.1	-27.68	-50.21	-14	-13.68	0
142.2	-27.38	-49.92	-14	-13.38	0
142.3	-27.18	-49.71	-14	-13.18	0
142.4	-27.07	-49.60	-14	-13.07	0
142.5	-27.04	-49.57	-14	-13.04	0
142.6	-27.10	-49.63	-14	-13.10	0
142.7	-27.23	-49.77	-14	-13.23	0
142.8	-27.44	-49.98	-14	-13.44	0
142.9	-27.72	-50.26	-14	-13.72	0
143.0	-28.05	-50.59	-14	-14.05	0
143.1	-28.43	-50.96	-14	-14.43	0
143.2	-28.81	-51.34	-14	-14.81	0
143.3	-29.15	-51.69	-14	-15.15	0
143.4	-29.42	-51.95	-14	-15.42	0
143.5	-29.54	-52.07	-14	-15.54	0
143.6	-29.47	-52.00	-14	-15.47	0
143.7	-29.19	-51.73	-14	-15.19	0
143.8	-28.73	-51.26	-14	-14.73	0
143.9	-28.13	-50.66	-14	-14.13	0
144.0	-27.44	-49.97	-14	-13.44	0
144.1	-26.72	-49.26	-14	-12.72	0

144.2	-26.01	-48.54	-14	-12.01	0
144.3	-25.32	-47.86	-14	-11.32	0
144.4	-24.69	-47.22	-14	-10.69	0
144.5	-24.10	-46.64	-14	-10.10	0
144.6	-23.58	-46.12	-14	-9.58	0
144.7	-23.12	-45.66	-14	-9.12	0
144.8	-22.73	-45.26	-14	-8.73	0
144.9	-22.39	-44.93	-14	-8.39	0
145.0	-22.12	-44.66	-14	-8.12	0
145.1	-21.91	-44.45	-14	-7.91	0
145.2	-21.77	-44.30	-14	-7.77	0
145.3	-21.69	-44.22	-14	-7.69	0
145.4	-21.67	-44.21	-14	-7.67	0
145.5	-21.72	-44.26	-14	-7.72	0
145.6	-21.84	-44.37	-14	-7.84	0
145.7	-22.03	-44.56	-14	-8.03	0
145.8	-22.30	-44.83	-14	-8.30	0
145.9	-22.65	-45.18	-14	-8.65	0
146.0	-23.08	-45.62	-14	-9.08	0
146.1	-23.62	-46.16	-14	-9.62	0
146.2	-24.27	-46.81	-14	-10.27	0
146.3	-25.06	-47.59	-14	-11.06	0
146.4	-25.99	-48.53	-14	-11.99	0
146.5	-27.12	-49.65	-14	-13.12	0
146.6	-28.48	-51.01	-14	-14.48	0
146.7	-30.14	-52.67	-14	-16.14	0
146.8	-32.17	-54.70	-14	-18.17	0
146.9	-34.61	-57.14	-14	-20.61	0
147.0	-37.06	-59.59	-14	-23.06	0
147.1	-37.83	-60.36	-14	-23.83	0
147.2	-36.00	-58.54	-14	-22.00	0
147.3	-33.45	-55.98	-14	-19.45	0
147.4	-31.19	-53.72	-14	-17.19	0
147.5	-29.34	-51.88	-14	-15.34	0
147.6	-27.84	-50.37	-14	-13.84	0
147.7	-26.60	-49.13	-14	-12.60	0
147.8	-25.58	-48.11	-14	-11.58	0
147.9	-24.74	-47.27	-14	-10.74	0
148.0	-24.04	-46.58	-14	-10.04	0
148.1	-23.48	-46.01	-14	-9.48	0
148.2	-23.03	-45.57	-14	-9.03	0
148.3	-22.69	-45.22	-14	-8.69	0
148.4	-22.45	-44.98	-14	-8.45	0
148.5	-22.30	-44.84	-14	-8.30	0
148.6	-22.25	-44.78	-14	-8.25	0
148.7	-22.29	-44.82	-14	-8.29	0
148.8	-22.42	-44.96	-14	-8.42	0
148.9	-22.66	-45.19	-14	-8.66	0
149.0	-23.00	-45.54	-14	-9.00	0
149.1	-23.46	-46.00	-14	-9.46	0

149.2	-24.06	-46.59	-14	-10.06	0
149.3	-24.81	-47.35	-14	-10.81	0
149.4	-25.75	-48.29	-14	-11.75	0
149.5	-26.94	-49.47	-14	-12.94	0
149.6	-28.44	-50.98	-14	-14.44	0
149.7	-30.42	-52.96	-14	-16.42	0
149.8	-33.17	-55.70	-14	-19.17	0
149.9	-37.47	-60.00	-14	-23.47	0
150.0	-46.87	-69.41	-14	-32.87	0
150.1	-46.58	-69.11	-14	-32.58	0
150.2	-37.12	-59.66	-14	-23.12	0
150.3	-32.67	-55.20	-14	-18.67	0
150.4	-29.75	-52.28	-14	-15.75	0
150.5	-27.59	-50.12	-14	-13.59	0
150.6	-25.90	-48.43	-14	-11.90	0
150.7	-24.52	-47.06	-14	-10.52	0
150.8	-23.39	-45.92	-14	-9.39	0
150.9	-22.43	-44.97	-14	-8.43	0
151.0	-21.63	-44.17	-14	-7.63	0
151.1	-20.96	-43.49	-14	-6.96	0
151.2	-20.39	-42.93	-14	-6.39	0
151.3	-19.92	-42.46	-14	-5.92	0
151.4	-19.54	-42.08	-14	-5.54	0
151.5	-19.25	-41.78	-14	-5.25	0
151.6	-19.02	-41.56	-14	-5.02	0
151.7	-18.88	-41.41	-14	-4.88	0
151.8	-18.80	-41.34	-14	-4.80	0
151.9	-18.79	-41.33	-14	-4.79	0
152.0	-18.86	-41.39	-14	-4.86	0
152.1	-18.99	-41.52	-14	-4.99	0
152.2	-19.19	-41.73	-14	-5.19	0
152.3	-19.47	-42.01	-14	-5.47	0
152.4	-19.83	-42.36	-14	-5.83	0
152.5	-20.27	-42.80	-14	-6.27	0
152.6	-20.80	-43.33	-14	-6.80	0
152.7	-21.43	-43.96	-14	-7.43	0
152.8	-22.17	-44.70	-14	-8.17	0
152.9	-23.04	-45.57	-14	-9.04	0
153.0	-24.06	-46.60	-14	-10.06	0
153.1	-25.27	-47.81	-14	-11.27	0
153.2	-26.72	-49.26	-14	-12.72	0
153.3	-28.49	-51.03	-14	-14.49	0
153.4	-30.73	-53.26	-14	-16.73	0
153.5	-33.72	-56.26	-14	-19.72	0
153.6	-38.21	-60.75	-14	-24.21	0
153.7	-47.42	-69.96	-14	-33.42	0
153.8	-48.77	-71.31	-14	-34.77	0
153.9	-39.25	-61.78	-14	-25.25	0
154.0	-35.03	-57.56	-14	-21.03	0
154.1	-32.40	-54.94	-14	-18.40	0

154.2	-30.57	-53.11	-14	-16.57	0
154.3	-29.23	-51.76	-14	-15.23	0
154.4	-28.23	-50.76	-14	-14.23	0
154.5	-27.48	-50.01	-14	-13.48	0
154.6	-26.93	-49.47	-14	-12.93	0
154.7	-26.56	-49.09	-14	-12.56	0
154.8	-26.32	-48.86	-14	-12.32	0
154.9	-26.21	-48.74	-14	-12.21	0
155.0	-26.20	-48.74	-14	-12.20	0
155.1	-26.27	-48.81	-14	-12.27	0
155.2	-26.40	-48.93	-14	-12.40	0
155.3	-26.54	-49.08	-14	-12.54	0
155.4	-26.66	-49.19	-14	-12.66	0
155.5	-26.69	-49.22	-14	-12.69	0
155.6	-26.58	-49.11	-14	-12.58	0
155.7	-26.30	-48.83	-14	-12.30	0
155.8	-25.84	-48.37	-14	-11.84	0
155.9	-25.22	-47.76	-14	-11.22	0
156.0	-24.50	-47.04	-14	-10.50	0
156.1	-23.73	-46.26	-14	-9.73	0
156.2	-22.94	-45.47	-14	-8.94	0
156.3	-22.17	-44.70	-14	-8.17	0
156.4	-21.44	-43.97	-14	-7.44	0
156.5	-20.76	-43.29	-14	-6.76	0
156.6	-20.14	-42.68	-14	-6.14	0
156.7	-19.59	-42.12	-14	-5.59	0
156.8	-19.10	-41.63	-14	-5.10	0
156.9	-18.67	-41.21	-14	-4.67	0
157.0	-18.31	-40.85	-14	-4.31	0
157.1	-18.02	-40.55	-14	-4.02	0
157.2	-17.79	-40.32	-14	-3.79	0
157.3	-17.62	-40.15	-14	-3.62	0
157.4	-17.52	-40.05	-14	-3.52	0
157.5	-17.48	-40.01	-14	-3.48	0
157.6	-17.50	-40.04	-14	-3.50	0
157.7	-17.60	-40.13	-14	-3.60	0
157.8	-17.76	-40.29	-14	-3.76	0
157.9	-17.99	-40.52	-14	-3.99	0
158.0	-18.29	-40.83	-14	-4.29	0
158.1	-18.67	-41.21	-14	-4.67	0
158.2	-19.13	-41.66	-14	-5.13	0
158.3	-19.67	-42.20	-14	-5.67	0
158.4	-20.29	-42.82	-14	-6.29	0
158.5	-20.99	-43.52	-14	-6.99	0
158.6	-21.76	-44.29	-14	-7.76	0
158.7	-22.57	-45.11	-14	-8.57	0
158.8	-23.39	-45.92	-14	-9.39	0
158.9	-24.12	-46.65	-14	-10.12	0
159.0	-24.65	-47.19	-14	-10.65	0
159.1	-24.87	-47.41	-14	-10.87	0

159.2	-24.72	-47.26	-14	-10.72	0
159.3	-24.24	-46.78	-14	-10.24	0
159.4	-23.55	-46.09	-14	-9.55	0
159.5	-22.76	-45.30	-14	-8.76	0
159.6	-21.97	-44.50	-14	-7.97	0
159.7	-21.21	-43.74	-14	-7.21	0
159.8	-20.52	-43.06	-14	-6.52	0
159.9	-19.92	-42.45	-14	-5.92	0
160.0	-19.40	-41.93	-14	-5.40	0
160.1	-18.96	-41.49	-14	-4.96	0
160.2	-18.61	-41.14	-14	-4.61	0
160.3	-18.33	-40.87	-14	-4.33	0
160.4	-18.13	-40.67	-14	-4.13	0
160.5	-18.01	-40.55	-14	-4.01	0
160.6	-17.97	-40.50	-14	-3.97	0
160.7	-17.99	-40.53	-14	-3.99	0
160.8	-18.09	-40.62	-14	-4.09	0
160.9	-18.25	-40.79	-14	-4.25	0
161.0	-18.49	-41.03	-14	-4.49	0
161.1	-18.80	-41.33	-14	-4.80	0
161.2	-19.17	-41.70	-14	-5.17	0
161.3	-19.60	-42.14	-14	-5.60	0
161.4	-20.09	-42.63	-14	-6.09	0
161.5	-20.63	-43.17	-14	-6.63	0
161.6	-21.21	-43.74	-14	-7.21	0
161.7	-21.78	-44.32	-14	-7.78	0
161.8	-22.34	-44.87	-14	-8.34	0
161.9	-22.82	-45.35	-14	-8.82	0
162.0	-23.18	-45.72	-14	-9.18	0
162.1	-23.39	-45.93	-14	-9.39	0
162.2	-23.43	-45.96	-14	-9.43	0
162.3	-23.31	-45.84	-14	-9.31	0
162.4	-23.06	-45.60	-14	-9.06	0
162.5	-22.75	-45.28	-14	-8.75	0
162.6	-22.40	-44.94	-14	-8.40	0
162.7	-22.07	-44.61	-14	-8.07	0
162.8	-21.78	-44.32	-14	-7.78	0
162.9	-21.55	-44.09	-14	-7.55	0
163.0	-21.40	-43.93	-14	-7.40	0
163.1	-21.33	-43.87	-14	-7.33	0
163.2	-21.36	-43.89	-14	-7.36	0
163.3	-21.49	-44.02	-14	-7.49	0
163.4	-21.73	-44.26	-14	-7.73	0
163.5	-22.09	-44.63	-14	-8.09	0
163.6	-22.59	-45.13	-14	-8.59	0
163.7	-23.25	-45.78	-14	-9.25	0
163.8	-24.07	-46.61	-14	-10.07	0
163.9	-25.09	-47.62	-14	-11.09	0
164.0	-26.32	-48.85	-14	-12.32	0
164.1	-27.74	-50.27	-14	-13.74	0

164.2	-29.21	-51.75	-14	-15.21	0
164.3	-30.31	-52.85	-14	-16.31	0
164.4	-30.37	-52.90	-14	-16.37	0
164.5	-29.22	-51.76	-14	-15.22	0
164.6	-27.50	-50.03	-14	-13.50	0
164.7	-25.73	-48.27	-14	-11.73	0
164.8	-24.13	-46.67	-14	-10.13	0
164.9	-22.74	-45.27	-14	-8.74	0
165.0	-21.54	-44.08	-14	-7.54	0
165.1	-20.52	-43.05	-14	-6.52	0
165.2	-19.65	-42.18	-14	-5.65	0
165.3	-18.91	-41.45	-14	-4.91	0
165.4	-18.30	-40.83	-14	-4.30	0
165.5	-17.79	-40.32	-14	-3.79	0
165.6	-17.38	-39.92	-14	-3.38	0
165.7	-17.07	-39.61	-14	-3.07	0
165.8	-16.85	-39.39	-14	-2.85	0
165.9	-16.72	-39.26	-14	-2.72	0
166.0	-16.68	-39.21	-14	-2.68	0
166.1	-16.72	-39.26	-14	-2.72	0
166.2	-16.85	-39.39	-14	-2.85	0
166.3	-17.08	-39.61	-14	-3.08	0
166.4	-17.40	-39.93	-14	-3.40	0
166.5	-17.83	-40.36	-14	-3.83	0
166.6	-18.37	-40.90	-14	-4.37	0
166.7	-19.04	-41.57	-14	-5.04	0
166.8	-19.86	-42.39	-14	-5.86	0
166.9	-20.85	-43.39	-14	-6.85	0
167.0	-22.06	-44.60	-14	-8.06	0
167.1	-23.55	-46.08	-14	-9.55	0
167.2	-25.38	-47.91	-14	-11.38	0
167.3	-27.67	-50.21	-14	-13.67	0
167.4	-30.48	-53.01	-14	-16.48	0
167.5	-33.18	-55.72	-14	-19.18	0
167.6	-33.31	-55.84	-14	-19.31	0
167.7	-30.77	-53.31	-14	-16.77	0
167.8	-28.08	-50.62	-14	-14.08	0
167.9	-25.91	-48.44	-14	-11.91	0
168.0	-24.20	-46.73	-14	-10.20	0
168.1	-22.85	-45.39	-14	-8.85	0
168.2	-21.78	-44.32	-14	-7.78	0
168.3	-20.94	-43.48	-14	-6.94	0
168.4	-20.29	-42.83	-14	-6.29	0
168.5	-19.80	-42.34	-14	-5.80	0
168.6	-19.46	-42.00	-14	-5.46	0
168.7	-19.26	-41.79	-14	-5.26	0
168.8	-19.18	-41.72	-14	-5.18	0
168.9	-19.24	-41.78	-14	-5.24	0
169.0	-19.43	-41.96	-14	-5.43	0
169.1	-19.76	-42.29	-14	-5.76	0

169.2	-20.23	-42.77	-14	-6.23	0
169.3	-20.88	-43.41	-14	-6.88	0
169.4	-21.72	-44.26	-14	-7.72	0
169.5	-22.82	-45.35	-14	-8.82	0
169.6	-24.22	-46.76	-14	-10.22	0
169.7	-26.08	-48.62	-14	-12.08	0
169.8	-28.64	-51.18	-14	-14.64	0
169.9	-32.53	-55.06	-14	-18.53	0
170.0	-40.01	-62.54	-14	-26.01	0
170.1	-45.32	-67.86	-14	-31.32	0
170.2	-34.37	-56.91	-14	-20.37	0
170.3	-29.57	-52.11	-14	-15.57	0
170.4	-26.55	-49.08	-14	-12.55	0
170.5	-24.38	-46.91	-14	-10.38	0
170.6	-22.73	-45.26	-14	-8.73	0
170.7	-21.43	-43.96	-14	-7.43	0
170.8	-20.40	-42.93	-14	-6.40	0
170.9	-19.58	-42.11	-14	-5.58	0
171.0	-18.94	-41.47	-14	-4.94	0
171.1	-18.45	-40.99	-14	-4.45	0
171.2	-18.11	-40.64	-14	-4.11	0
171.3	-17.89	-40.43	-14	-3.89	0
171.4	-17.80	-40.34	-14	-3.80	0
171.5	-17.84	-40.38	-14	-3.84	0
171.6	-18.01	-40.55	-14	-4.01	0
171.7	-18.32	-40.86	-14	-4.32	0
171.8	-18.78	-41.32	-14	-4.78	0
171.9	-19.41	-41.95	-14	-5.41	0
172.0	-20.25	-42.78	-14	-6.25	0
172.1	-21.34	-43.87	-14	-7.34	0
172.2	-22.75	-45.28	-14	-8.75	0
172.3	-24.63	-47.16	-14	-10.63	0
172.4	-27.22	-49.75	-14	-13.22	0
172.5	-31.02	-53.55	-14	-17.02	0
172.6	-36.33	-58.87	-14	-22.33	0
172.7	-35.11	-57.65	-14	-21.11	0
172.8	-29.70	-52.23	-14	-15.70	0
172.9	-25.94	-48.47	-14	-11.94	0
173.0	-23.26	-45.79	-14	-9.26	0
173.1	-21.22	-43.76	-14	-7.22	0
173.2	-19.61	-42.14	-14	-5.61	0
173.3	-18.30	-40.84	-14	-4.30	0
173.4	-17.23	-39.76	-14	-3.23	0
173.5	-16.34	-38.87	-14	-2.34	0
173.6	-15.61	-38.14	-14	-1.61	0
173.7	-15.01	-37.54	-14	-1.01	0
173.8	-14.53	-37.07	-14	-0.53	0
173.9	-14.17	-36.70	-14	-0.17	0
174.0	-13.90	-36.44	-14	0.10	0
174.1	-13.74	-36.28	-14	0.26	0

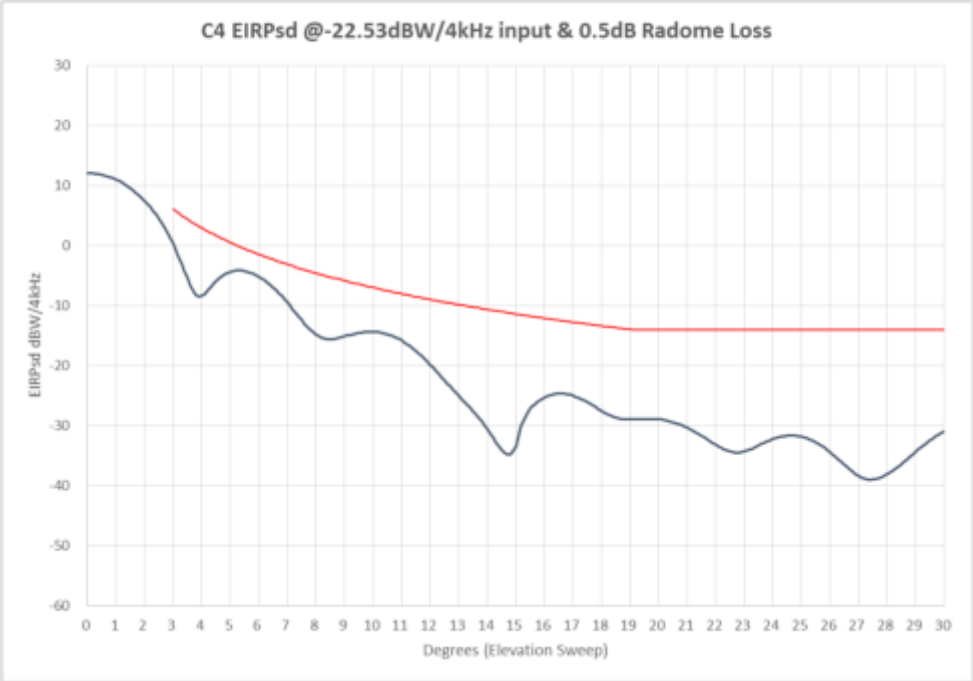
174.2	-13.67	-36.21	-14	0.33	0
174.3	-13.70	-36.24	-14	0.30	0
174.4	-13.83	-36.36	-14	0.17	0
174.5	-14.06	-36.59	-14	-0.06	0
174.6	-14.39	-36.93	-14	-0.39	0
174.7	-14.85	-37.38	-14	-0.85	0
174.8	-15.43	-37.97	-14	-1.43	0
174.9	-16.17	-38.70	-14	-2.17	0
175.0	-17.08	-39.62	-14	-3.08	0
175.1	-18.21	-40.75	-14	-4.21	0
175.2	-19.63	-42.17	-14	-5.63	0
175.3	-21.44	-43.97	-14	-7.44	0
175.4	-23.83	-46.36	-14	-9.83	0
175.5	-27.19	-49.72	-14	-13.19	0
175.6	-32.28	-54.82	-14	-18.28	0
175.7	-36.23	-58.77	-14	-22.23	0
175.8	-30.66	-53.19	-14	-16.66	0
175.9	-26.18	-48.71	-14	-12.18	0
176.0	-23.18	-45.72	-14	-9.18	0
176.1	-21.02	-43.55	-14	-7.02	0
176.2	-19.38	-41.91	-14	-5.38	0
176.3	-18.09	-40.63	-14	-4.09	0
176.4	-17.08	-39.61	-14	-3.08	0
176.5	-16.28	-38.81	-14	-2.28	0
176.6	-15.65	-38.19	-14	-1.65	0
176.7	-15.19	-37.72	-14	-1.19	0
176.8	-14.86	-37.39	-14	-0.86	0
176.9	-14.66	-37.20	-14	-0.66	0
177.0	-14.60	-37.13	-14	-0.60	0
177.1	-14.66	-37.19	-14	-0.66	0
177.2	-14.85	-37.38	-14	-0.85	0
177.3	-15.17	-37.71	-14	-1.17	0
177.4	-15.65	-38.19	-14	-1.65	0
177.5	-16.30	-38.84	-14	-2.30	0
177.6	-17.15	-39.68	-14	-3.15	0
177.7	-18.24	-40.77	-14	-4.24	0
177.8	-19.63	-42.17	-14	-5.63	0
177.9	-21.42	-43.96	-14	-7.42	0
178.0	-23.70	-46.23	-14	-9.70	0
178.1	-26.32	-48.85	-14	-12.32	0
178.2	-27.86	-50.40	-14	-13.86	0
178.3	-26.26	-48.80	-14	-12.26	0
178.4	-23.32	-45.86	-14	-9.32	0
178.5	-20.67	-43.21	-14	-6.67	0
178.6	-18.51	-41.04	-14	-4.51	0
178.7	-16.74	-39.27	-14	-2.74	0
178.8	-15.27	-37.81	-14	-1.27	0
178.9	-14.05	-36.58	-14	-0.05	0
179.0	-13.01	-35.54	-14	0.99	0
179.1	-12.13	-34.66	-14	1.87	0

179.2	-11.38	-33.92	-14	2.62	0
179.3	-10.76	-33.29	-14	3.24	0
179.4	-10.23	-32.76	-14	3.77	0
179.5	-9.80	-32.33	-14	4.20	0
179.6	-9.45	-31.99	-14	4.55	0
179.7	-9.19	-31.73	-14	4.81	0
179.8	-9.01	-31.54	-14	4.99	0
179.9	-8.90	-31.43	-14	5.10	0
180.0	-8.86	-31.39	-14	5.14	0

1. Maximum co-polarized EIRP density

1) 14GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model	C4		Min input: (@all freq.)	-22.53
Frequency	14.00	[GHz]		
GSO arc	Perpendicular			
EIRPsd Input	-21.75	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	33.81			out of spec

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	33.81	12.07			
0.1	33.80	12.05			
0.2	33.77	12.02			
0.3	33.72	11.97			
0.4	33.64	11.89			
0.5	33.54	11.80			
0.6	33.43	11.68			
0.7	33.28	11.54			
0.8	33.12	11.37			
0.9	32.94	11.19			
1.0	32.73	10.98			
1.1	32.49	10.74			
1.2	32.23	10.49			
1.3	31.95	10.20			
1.4	31.64	9.89			
1.5	31.31	9.56			
1.6	30.94	9.20			
1.7	30.55	8.80			
1.8	30.13	8.38			
1.9	29.68	7.93			
2.0	29.19	7.44			
2.1	28.67	6.92			
2.2	28.11	6.36			
2.3	27.51	5.77			
2.4	26.88	5.13			
2.5	26.19	4.44			
2.6	25.46	3.71			
2.7	24.68	2.93			
2.8	23.84	2.10			
2.9	22.95	1.20			
3.0	21.99	0.24	6.071968632	15.92	0
3.1	20.97	-0.78	5.715957654	15.25	0
3.2	19.88	-1.87	5.371250542	14.51	0
3.3	18.73	-3.02	5.037151503	13.70	0
3.4	17.54	-4.20	4.713027074	12.83	0
3.5	16.35	-5.40	4.398298891	11.95	0
3.6	15.22	-6.53	4.092437481	11.12	0
3.7	14.25	-7.50	3.794956898	10.45	0
3.8	13.57	-8.18	3.505410085	10.07	0
3.9	13.27	-8.48	3.223384824	10.05	0
4.0	13.34	-8.41	2.948500217	10.39	0
4.1	13.69	-8.06	2.680403582	11.01	0

4.2	14.20	-7.55	2.41876774	11.78	0
4.3	14.76	-6.99	2.163288611	12.59	0
4.4	15.31	-6.44	1.913683088	13.39	0
4.5	15.81	-5.94	1.669687156	14.14	0
4.6	16.25	-5.49	1.431054208	14.82	0
4.7	16.63	-5.12	1.197553552	15.43	0
4.8	16.94	-4.81	0.968969066	15.97	0
4.9	17.18	-4.56	0.745097999	16.44	0
5.0	17.37	-4.38	0.525749892	16.84	0
5.1	17.50	-4.25	0.310745598	17.19	0
5.2	17.57	-4.18	0.099916409	17.47	0
5.3	17.59	-4.15	-0.10689674	17.70	0
5.4	17.57	-4.18	-0.309843996	17.88	0
5.5	17.50	-4.25	-0.509067237	18.01	0
5.6	17.39	-4.36	-0.704700675	18.10	0
5.7	17.24	-4.51	-0.896871392	18.14	0
5.8	17.05	-4.70	-1.085699839	18.14	0
5.9	16.82	-4.93	-1.271300291	18.09	0
6.0	16.56	-5.19	-1.45378126	18.01	0
6.1	16.26	-5.49	-1.633245875	17.90	0
6.2	15.93	-5.82	-1.809792237	17.74	0
6.3	15.57	-6.18	-1.983513736	17.55	0
6.4	15.18	-6.57	-2.15449935	17.33	0
6.5	14.75	-6.99	-2.322833916	17.08	0
6.6	14.30	-7.44	-2.488598389	16.79	0
6.7	13.83	-7.92	-2.651870068	16.48	0
6.8	13.32	-8.43	-2.812722818	16.13	0
6.9	12.79	-8.95	-2.971227268	15.77	0
7.0	12.25	-9.50	-3.127451	15.37	0
7.1	11.68	-10.07	-3.281458718	14.96	0
7.2	11.10	-10.65	-3.433312411	14.53	0
7.3	10.51	-11.23	-3.583071503	14.10	0
7.4	9.92	-11.82	-3.730792993	13.66	0
7.5	9.34	-12.41	-3.876531585	13.22	0
7.6	8.78	-12.97	-4.020339807	12.80	0
7.7	8.24	-13.51	-4.162268129	12.40	0
7.8	7.74	-14.01	-4.302365067	12.04	0
7.9	7.29	-14.46	-4.440677282	11.73	0
8.0	6.91	-14.84	-4.577249675	11.49	0
8.1	6.60	-15.15	-4.712125472	11.31	0
8.2	6.37	-15.38	-4.84534631	11.21	0
8.3	6.22	-15.53	-4.976952309	11.19	0
8.4	6.13	-15.61	-5.106982152	11.24	0
8.5	6.12	-15.63	-5.235473143	11.35	0
8.6	6.15	-15.59	-5.362461281	11.52	0
8.7	6.23	-15.52	-5.487981315	11.72	0
8.8	6.34	-15.41	-5.612066804	11.95	0
8.9	6.46	-15.29	-5.734750166	12.20	0
9.0	6.60	-15.15	-5.856062736	12.45	0
9.1	6.73	-15.01	-5.976034808	12.71	0

9.2	6.87	-14.88	-6.094695684	12.96	0
9.3	6.99	-14.76	-6.212073714	13.20	0
9.4	7.10	-14.65	-6.32819634	13.43	0
9.5	7.20	-14.55	-6.443090132	13.64	0
9.6	7.27	-14.47	-6.556780826	13.83	0
9.7	7.33	-14.42	-6.669293357	14.00	0
9.8	7.37	-14.38	-6.780651892	14.15	0
9.9	7.38	-14.36	-6.890879865	14.27	0
10.0	7.37	-14.37	-7	14.37	0
10.1	7.34	-14.40	-7.108034345	14.45	0
10.2	7.29	-14.46	-7.215004294	14.50	0
10.3	7.21	-14.54	-7.320930618	14.53	0
10.4	7.10	-14.65	-7.425833482	14.53	0
10.5	6.97	-14.78	-7.529732477	14.50	0
10.6	6.81	-14.93	-7.632646632	14.45	0
10.7	6.63	-15.12	-7.734594442	14.37	0
10.8	6.42	-15.33	-7.835593887	14.26	0
10.9	6.19	-15.56	-7.935662449	14.12	0
11.0	5.92	-15.82	-8.034817129	13.96	0
11.1	5.63	-16.11	-8.13307447	13.77	0
11.2	5.32	-16.43	-8.230450567	13.55	0
11.3	4.98	-16.77	-8.326961087	13.30	0
11.4	4.61	-17.14	-8.422621283	13.03	0
11.5	4.22	-17.53	-8.517446009	12.73	0
11.6	3.80	-17.95	-8.611449731	12.41	0
11.7	3.36	-18.39	-8.704646544	12.07	0
11.8	2.90	-18.85	-8.797050183	11.70	0
11.9	2.42	-19.33	-8.888674035	11.31	0
12.0	1.93	-19.82	-8.979531151	10.91	0
12.1	1.42	-20.33	-9.069634258	10.49	0
12.2	0.90	-20.85	-9.158995767	10.05	0
12.3	0.37	-21.38	-9.247627786	9.62	0
12.4	-0.16	-21.91	-9.335542129	9.17	0
12.5	-0.69	-22.44	-9.422750325	8.73	0
12.6	-1.22	-22.97	-9.509263628	8.29	0
12.7	-1.74	-23.49	-9.595093024	7.85	0
12.8	-2.25	-24.00	-9.680249241	7.43	0
12.9	-2.76	-24.51	-9.764742757	7.01	0
13.0	-3.26	-25.00	-9.848583808	6.59	0
13.1	-3.75	-25.50	-9.931782391	6.18	0
13.2	-4.24	-25.99	-10.01434828	5.77	0
13.3	-4.74	-26.48	-10.09629102	5.36	0
13.4	-5.24	-26.99	-10.17761996	4.94	0
13.5	-5.76	-27.51	-10.25834421	4.50	0
13.6	-6.30	-28.05	-10.33847271	4.04	0
13.7	-6.87	-28.62	-10.41801418	3.55	0
13.8	-7.47	-29.22	-10.49697716	3.02	0
13.9	-8.11	-29.86	-10.57537001	2.46	0
14.0	-8.79	-30.53	-10.65320089	1.87	0
14.1	-9.49	-31.24	-10.73047782	1.24	0

14.2	-10.22	-31.97	-10.80720861	0.59	0
14.3	-10.95	-32.70	-10.88340094	-0.07	0
14.4	-11.66	-33.40	-10.9590623	-0.70	0
14.5	-12.29	-34.04	-11.03420006	-1.25	0
14.6	-12.80	-34.55	-11.10882139	-1.69	0
14.7	-13.04	-34.79	-11.18293337	-1.86	0
14.8	-13.03	-34.78	-11.25654288	-1.78	0
14.9	-12.54	-34.29	-11.32965671	-1.21	0
15.0	-11.64	-33.39	-11.40228148	-0.24	0
15.1	-9.88	-31.63	-11.47442368	1.59	0
15.2	-8.20	-29.95	-11.5460897	3.34	0
15.3	-7.17	-28.92	-11.61728577	4.45	0
15.4	-6.28	-28.03	-11.68801802	5.40	0
15.5	-5.45	-27.20	-11.75829245	6.31	0
15.6	-4.98	-26.72	-11.82811496	6.85	0
15.7	-4.55	-26.30	-11.89749131	7.34	0
15.8	-4.19	-25.93	-11.96642717	7.78	0
15.9	-3.87	-25.62	-12.03492811	8.17	0
16.0	-3.60	-25.35	-12.10299957	8.50	0
16.1	-3.38	-25.13	-12.1706469	8.79	0
16.2	-3.20	-24.95	-12.23787536	9.04	0
16.3	-3.07	-24.82	-12.30469011	9.23	0
16.4	-2.98	-24.73	-12.3710962	9.39	0
16.5	-2.93	-24.68	-12.43709861	9.50	0
16.6	-2.92	-24.67	-12.5027022	9.58	0
16.7	-2.95	-24.70	-12.56791178	9.62	0
16.8	-3.01	-24.76	-12.63273204	9.62	0
16.9	-3.11	-24.86	-12.69716762	9.58	0
17.0	-3.24	-24.99	-12.76122303	9.52	0
17.1	-3.41	-25.15	-12.82490276	9.42	0
17.2	-3.60	-25.35	-12.88821117	9.29	0
17.3	-3.82	-25.56	-12.95115258	9.14	0
17.4	-4.06	-25.80	-13.01373121	8.96	0
17.5	-4.32	-26.07	-13.07595122	8.76	0
17.6	-4.60	-26.34	-13.1378167	8.54	0
17.7	-4.88	-26.63	-13.19933166	8.31	0
17.8	-5.18	-26.93	-13.26050006	8.08	0
17.9	-5.48	-27.22	-13.32132577	7.84	0
18.0	-5.77	-27.51	-13.38181263	7.62	0
18.1	-6.04	-27.79	-13.44196437	7.40	0
18.2	-6.30	-28.05	-13.5017847	7.20	0
18.3	-6.53	-28.28	-13.56127724	7.03	0
18.4	-6.74	-28.48	-13.62044558	6.89	0
18.5	-6.90	-28.65	-13.67929321	6.78	0
18.6	-7.03	-28.78	-13.73782361	6.70	0
18.7	-7.13	-28.88	-13.79604016	6.67	0
18.8	-7.19	-28.94	-13.85394623	6.66	0
18.9	-7.22	-28.97	-13.9115451	6.69	0
19.0	-7.23	-28.98	-13.96884002	6.73	0
19.1	-7.23	-28.97	-14.02583418	6.80	0

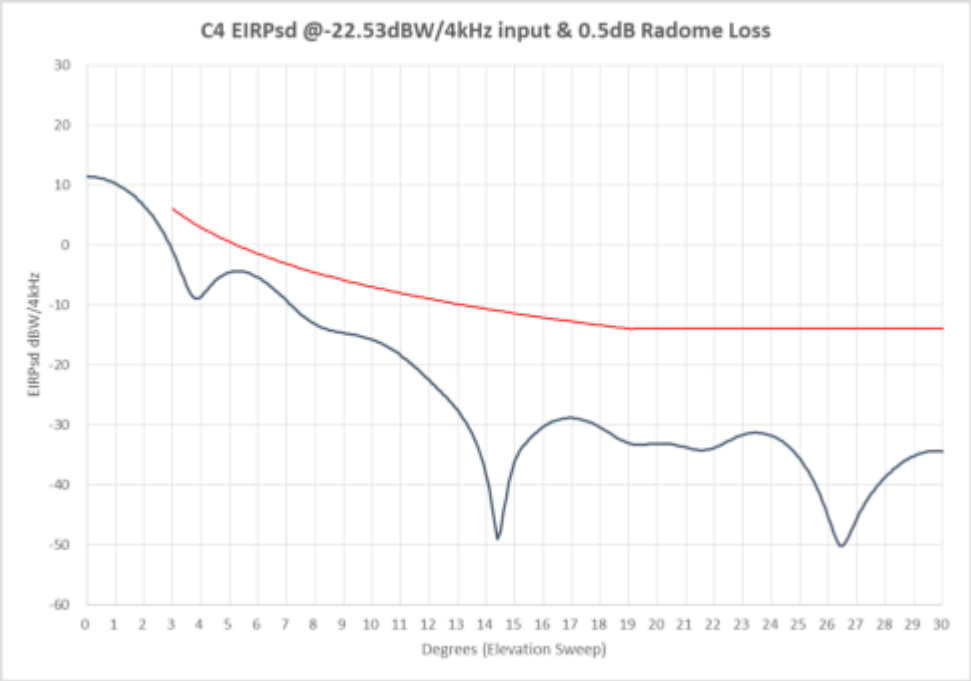
19.2	-7.20	-28.95	-14	6.80	0
19.3	-7.18	-28.93	-14	6.82	0
19.4	-7.15	-28.90	-14	6.85	0
19.5	-7.13	-28.87	-14	6.87	0
19.6	-7.11	-28.86	-14	6.89	0
19.7	-7.10	-28.85	-14	6.90	0
19.8	-7.11	-28.86	-14	6.89	0
19.9	-7.14	-28.88	-14	6.86	0
20.0	-7.18	-28.92	-14	6.82	0
20.1	-7.23	-28.98	-14	6.77	0
20.2	-7.31	-29.06	-14	6.69	0
20.3	-7.41	-29.15	-14	6.59	0
20.4	-7.52	-29.27	-14	6.48	0
20.5	-7.65	-29.40	-14	6.35	0
20.6	-7.81	-29.55	-14	6.19	0
20.7	-7.98	-29.72	-14	6.02	0
20.8	-8.16	-29.91	-14	5.84	0
20.9	-8.37	-30.12	-14	5.63	0
21.0	-8.59	-30.34	-14	5.41	0
21.1	-8.83	-30.58	-14	5.17	0
21.2	-9.08	-30.83	-14	4.92	0
21.3	-9.35	-31.10	-14	4.65	0
21.4	-9.63	-31.38	-14	4.37	0
21.5	-9.92	-31.67	-14	4.08	0
21.6	-10.22	-31.96	-14	3.78	0
21.7	-10.52	-32.27	-14	3.48	0
21.8	-10.83	-32.58	-14	3.17	0
21.9	-11.14	-32.88	-14	2.86	0
22.0	-11.43	-33.18	-14	2.57	0
22.1	-11.72	-33.47	-14	2.28	0
22.2	-11.99	-33.73	-14	2.01	0
22.3	-12.22	-33.97	-14	1.78	0
22.4	-12.42	-34.17	-14	1.58	0
22.5	-12.58	-34.33	-14	1.42	0
22.6	-12.69	-34.44	-14	1.31	0
22.7	-12.74	-34.49	-14	1.26	0
22.8	-12.74	-34.49	-14	1.26	0
22.9	-12.68	-34.43	-14	1.32	0
23.0	-12.58	-34.33	-14	1.42	0
23.1	-12.43	-34.18	-14	1.57	0
23.2	-12.25	-34.00	-14	1.75	0
23.3	-12.04	-33.79	-14	1.96	0
23.4	-11.81	-33.56	-14	2.19	0
23.5	-11.58	-33.33	-14	2.42	0
23.6	-11.35	-33.09	-14	2.65	0
23.7	-11.12	-32.86	-14	2.88	0
23.8	-10.90	-32.65	-14	3.10	0
23.9	-10.69	-32.44	-14	3.31	0
24.0	-10.51	-32.26	-14	3.49	0
24.1	-10.35	-32.10	-14	3.65	0

24.2	-10.21	-31.96	-14	3.79	0
24.3	-10.10	-31.84	-14	3.90	0
24.4	-10.01	-31.76	-14	3.99	0
24.5	-9.95	-31.70	-14	4.05	0
24.6	-9.92	-31.67	-14	4.08	0
24.7	-9.92	-31.67	-14	4.08	0
24.8	-9.95	-31.69	-14	4.05	0
24.9	-10.01	-31.75	-14	3.99	0
25.0	-10.09	-31.84	-14	3.91	0
25.1	-10.21	-31.96	-14	3.79	0
25.2	-10.36	-32.11	-14	3.64	0
25.3	-10.54	-32.29	-14	3.46	0
25.4	-10.75	-32.50	-14	3.25	0
25.5	-10.99	-32.74	-14	3.01	0
25.6	-11.26	-33.01	-14	2.74	0
25.7	-11.56	-33.31	-14	2.44	0
25.8	-11.88	-33.63	-14	2.12	0
25.9	-12.23	-33.98	-14	1.77	0
26.0	-12.61	-34.36	-14	1.39	0
26.1	-13.01	-34.75	-14	0.99	0
26.2	-13.42	-35.17	-14	0.58	0
26.3	-13.85	-35.60	-14	0.15	0
26.4	-14.29	-36.04	-14	-0.29	0
26.5	-14.73	-36.48	-14	-0.73	0
26.6	-15.16	-36.91	-14	-1.16	0
26.7	-15.58	-37.33	-14	-1.58	0
26.8	-15.97	-37.72	-14	-1.97	0
26.9	-16.33	-38.08	-14	-2.33	0
27.0	-16.64	-38.38	-14	-2.64	0
27.1	-16.89	-38.63	-14	-2.89	0
27.2	-17.08	-38.82	-14	-3.08	0
27.3	-17.20	-38.94	-14	-3.20	0
27.4	-17.25	-39.00	-14	-3.25	0
27.5	-17.23	-38.98	-14	-3.23	0
27.6	-17.16	-38.91	-14	-3.16	0
27.7	-17.03	-38.77	-14	-3.03	0
27.8	-16.84	-38.59	-14	-2.84	0
27.9	-16.62	-38.37	-14	-2.62	0
28.0	-16.36	-38.11	-14	-2.36	0
28.1	-16.07	-37.82	-14	-2.07	0
28.2	-15.75	-37.50	-14	-1.75	0
28.3	-15.41	-37.16	-14	-1.41	0
28.4	-15.05	-36.80	-14	-1.05	0
28.5	-14.67	-36.42	-14	-0.67	0
28.6	-14.28	-36.03	-14	-0.28	0
28.7	-13.89	-35.64	-14	0.11	0
28.8	-13.49	-35.23	-14	0.51	0
28.9	-13.08	-34.83	-14	0.92	0
29.0	-12.68	-34.42	-14	1.32	0
29.1	-12.28	-34.03	-14	1.72	0

29.2	-11.89	-33.63	-14	2.11	0
29.3	-11.50	-33.25	-14	2.50	0
29.4	-11.13	-32.88	-14	2.87	0
29.5	-10.77	-32.52	-14	3.23	0
29.6	-10.43	-32.18	-14	3.57	0
29.7	-10.10	-31.85	-14	3.90	0
29.8	-9.79	-31.54	-14	4.21	0
29.9	-9.50	-31.25	-14	4.50	0
30.0	-9.24	-30.98	-14	4.76	0

3) 14.5GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model	C4		Min input: (@all freq.)	-22.53
Frequency	14.50	[GHz]		
GSO arc	Perpendicular			
EIRPsd Input	-22.53	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	33.95			out of spec

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	33.95	11.42			
0.1	33.94	11.40			
0.2	33.90	11.37			
0.3	33.84	11.31			
0.4	33.76	11.23			
0.5	33.66	11.12			
0.6	33.53	11.00			
0.7	33.39	10.85			
0.8	33.21	10.68			
0.9	33.02	10.48			
1.0	32.80	10.27			
1.1	32.56	10.02			
1.2	32.29	9.75			
1.3	31.99	9.46			
1.4	31.67	9.13			
1.5	31.32	8.79			
1.6	30.94	8.41			
1.7	30.53	8.00			
1.8	30.09	7.56			
1.9	29.62	7.09			
2.0	29.12	6.58			
2.1	28.57	6.04			
2.2	27.99	5.46			
2.3	27.37	4.83			
2.4	26.70	4.17			
2.5	25.99	3.45			
2.6	25.22	2.69			
2.7	24.40	1.87			
2.8	23.53	0.99			
2.9	22.59	0.05			
3.0	21.58	-0.96	6.071968632	15.51	0
3.1	20.50	-2.03	5.715957654	14.79	0
3.2	19.36	-3.17	5.371250542	13.99	0
3.3	18.17	-4.36	5.037151503	13.14	0
3.4	16.96	-5.58	4.713027074	12.24	0
3.5	15.78	-6.76	4.398298891	11.38	0
3.6	14.73	-7.81	4.092437481	10.64	0
3.7	13.94	-8.59	3.794956898	10.15	0
3.8	13.54	-9.00	3.505410085	10.03	0
3.9	13.53	-9.00	3.223384824	10.31	0
4.0	13.85	-8.68	2.948500217	10.91	0
4.1	14.37	-8.17	2.680403582	11.69	0

4.2	14.96	-7.58	2.41876774	12.54	0
4.3	15.55	-6.99	2.163288611	13.38	0
4.4	16.09	-6.44	1.913683088	14.18	0
4.5	16.58	-5.96	1.669687156	14.91	0
4.6	16.99	-5.54	1.431054208	15.56	0
4.7	17.34	-5.19	1.197553552	16.14	0
4.8	17.62	-4.91	0.968969066	16.65	0
4.9	17.84	-4.69	0.745097999	17.10	0
5.0	18.00	-4.53	0.525749892	17.48	0
5.1	18.11	-4.43	0.310745598	17.80	0
5.2	18.16	-4.37	0.099916409	18.06	0
5.3	18.17	-4.36	-0.10689674	18.28	0
5.4	18.13	-4.40	-0.309843996	18.44	0
5.5	18.05	-4.48	-0.509067237	18.56	0
5.6	17.94	-4.60	-0.704700675	18.64	0
5.7	17.78	-4.75	-0.896871392	18.68	0
5.8	17.59	-4.95	-1.085699839	18.68	0
5.9	17.37	-5.17	-1.271300291	18.64	0
6.0	17.11	-5.42	-1.45378126	18.56	0
6.1	16.82	-5.71	-1.633245875	18.46	0
6.2	16.51	-6.02	-1.809792237	18.32	0
6.3	16.17	-6.36	-1.983513736	18.16	0
6.4	15.81	-6.72	-2.15449935	17.96	0
6.5	15.42	-7.11	-2.322833916	17.75	0
6.6	15.02	-7.51	-2.488598389	17.51	0
6.7	14.60	-7.94	-2.651870068	17.25	0
6.8	14.16	-8.37	-2.812722818	16.98	0
6.9	13.72	-8.82	-2.971227268	16.69	0
7.0	13.26	-9.27	-3.127451	16.39	0
7.1	12.81	-9.73	-3.281458718	16.09	0
7.2	12.35	-10.18	-3.433312411	15.78	0
7.3	11.90	-10.63	-3.583071503	15.48	0
7.4	11.46	-11.07	-3.730792993	15.19	0
7.5	11.04	-11.50	-3.876531585	14.91	0
7.6	10.63	-11.90	-4.020339807	14.65	0
7.7	10.25	-12.28	-4.162268129	14.42	0
7.8	9.90	-12.63	-4.302365067	14.20	0
7.9	9.58	-12.95	-4.440677282	14.02	0
8.0	9.30	-13.24	-4.577249675	13.87	0
8.1	9.04	-13.49	-4.712125472	13.75	0
8.2	8.82	-13.72	-4.84534631	13.66	0
8.3	8.63	-13.91	-4.976952309	13.60	0
8.4	8.46	-14.07	-5.106982152	13.57	0
8.5	8.32	-14.21	-5.235473143	13.56	0
8.6	8.20	-14.33	-5.362461281	13.56	0
8.7	8.10	-14.44	-5.487981315	13.59	0
8.8	8.01	-14.53	-5.612066804	13.62	0
8.9	7.92	-14.61	-5.734750166	13.66	0
9.0	7.84	-14.69	-5.856062736	13.70	0
9.1	7.76	-14.77	-5.976034808	13.74	0

9.2	7.68	-14.85	-6.094695684	13.78	0
9.3	7.60	-14.94	-6.212073714	13.81	0
9.4	7.51	-15.03	-6.32819634	13.84	0
9.5	7.41	-15.12	-6.443090132	13.85	0
9.6	7.30	-15.23	-6.556780826	13.86	0
9.7	7.18	-15.35	-6.669293357	13.85	0
9.8	7.05	-15.49	-6.780651892	13.83	0
9.9	6.90	-15.63	-6.890879865	13.79	0
10.0	6.74	-15.79	-7	13.74	0
10.1	6.56	-15.97	-7.108034345	13.67	0
10.2	6.37	-16.17	-7.215004294	13.58	0
10.3	6.15	-16.38	-7.320930618	13.48	0
10.4	5.92	-16.61	-7.425833482	13.35	0
10.5	5.68	-16.86	-7.529732477	13.20	0
10.6	5.41	-17.13	-7.632646632	13.04	0
10.7	5.12	-17.41	-7.734594442	12.86	0
10.8	4.82	-17.72	-7.835593887	12.65	0
10.9	4.49	-18.04	-7.935662449	12.43	0
11.0	4.15	-18.38	-8.034817129	12.19	0
11.1	3.80	-18.74	-8.13307447	11.93	0
11.2	3.42	-19.11	-8.230450567	11.65	0
11.3	3.03	-19.50	-8.326961087	11.36	0
11.4	2.63	-19.91	-8.422621283	11.05	0
11.5	2.21	-20.32	-8.517446009	10.73	0
11.6	1.78	-20.75	-8.611449731	10.39	0
11.7	1.35	-21.19	-8.704646544	10.05	0
11.8	0.90	-21.63	-8.797050183	9.70	0
11.9	0.45	-22.09	-8.888674035	9.34	0
12.0	-0.01	-22.54	-8.979531151	8.97	0
12.1	-0.47	-23.01	-9.069634258	8.60	0
12.2	-0.94	-23.47	-9.158995767	8.22	0
12.3	-1.41	-23.94	-9.247627786	7.84	0
12.4	-1.89	-24.42	-9.335542129	7.45	0
12.5	-2.37	-24.91	-9.422750325	7.05	0
12.6	-2.87	-25.41	-9.509263628	6.64	0
12.7	-3.38	-25.92	-9.595093024	6.21	0
12.8	-3.92	-26.45	-9.680249241	5.76	0
12.9	-4.48	-27.01	-9.764742757	5.29	0
13.0	-5.07	-27.61	-9.848583808	4.78	0
13.1	-5.71	-28.24	-9.931782391	4.22	0
13.2	-6.39	-28.93	-10.01434828	3.62	0
13.3	-7.14	-29.67	-10.09629102	2.96	0
13.4	-7.96	-30.49	-10.17761996	2.22	0
13.5	-8.87	-31.40	-10.25834421	1.39	0
13.6	-9.89	-32.42	-10.33847271	0.45	0
13.7	-11.04	-33.57	-10.41801418	-0.62	0
13.8	-12.36	-34.89	-10.49697716	-1.86	0
13.9	-13.90	-36.43	-10.57537001	-3.32	0
14.0	-15.72	-38.26	-10.65320089	-5.07	0
14.1	-17.95	-40.48	-10.73047782	-7.22	0

14.2	-20.71	-43.25	-10.80720861	-9.91	0
14.3	-24.05	-46.58	-10.88340094	-13.16	0
14.4	-26.58	-49.11	-10.9590623	-15.62	0
14.5	-25.20	-47.74	-11.03420006	-14.17	0
14.6	-22.13	-44.66	-11.10882139	-11.02	0
14.7	-19.49	-42.03	-11.18293337	-8.31	0
14.8	-16.93	-39.47	-11.25654288	-5.68	0
14.9	-14.99	-37.53	-11.32965671	-3.66	0
15.0	-13.56	-36.09	-11.40228148	-2.15	0
15.1	-12.65	-35.19	-11.47442368	-1.18	0
15.2	-11.65	-34.19	-11.5460897	-0.11	0
15.3	-11.06	-33.59	-11.61728577	0.56	0
15.4	-10.49	-33.03	-11.68801802	1.20	0
15.5	-9.95	-32.49	-11.75829245	1.81	0
15.6	-9.45	-31.99	-11.82811496	2.38	0
15.7	-8.99	-31.52	-11.89749131	2.91	0
15.8	-8.56	-31.09	-11.96642717	3.41	0
15.9	-8.17	-30.71	-12.03492811	3.86	0
16.0	-7.83	-30.36	-12.10299957	4.28	0
16.1	-7.52	-30.05	-12.1706469	4.66	0
16.2	-7.24	-29.78	-12.23787536	5.00	0
16.3	-7.01	-29.54	-12.30469011	5.30	0
16.4	-6.81	-29.34	-12.3710962	5.56	0
16.5	-6.64	-29.18	-12.43709861	5.80	0
16.6	-6.51	-29.04	-12.5027022	5.99	0
16.7	-6.41	-28.95	-12.56791178	6.16	0
16.8	-6.35	-28.88	-12.63273204	6.28	0
16.9	-6.32	-28.85	-12.69716762	6.38	0
17.0	-6.32	-28.85	-12.76122303	6.45	0
17.1	-6.35	-28.88	-12.82490276	6.48	0
17.2	-6.41	-28.94	-12.88821117	6.48	0
17.3	-6.50	-29.03	-12.95115258	6.45	0
17.4	-6.62	-29.15	-13.01373121	6.39	0
17.5	-6.77	-29.30	-13.07595122	6.31	0
17.6	-6.94	-29.48	-13.1378167	6.19	0
17.7	-7.15	-29.68	-13.19933166	6.05	0
17.8	-7.37	-29.91	-13.26050006	5.89	0
17.9	-7.62	-30.15	-13.32132577	5.70	0
18.0	-7.89	-30.42	-13.38181263	5.50	0
18.1	-8.17	-30.70	-13.44196437	5.27	0
18.2	-8.46	-31.00	-13.5017847	5.04	0
18.3	-8.77	-31.30	-13.56127724	4.79	0
18.4	-9.07	-31.60	-13.62044558	4.55	0
18.5	-9.37	-31.90	-13.67929321	4.31	0
18.6	-9.65	-32.18	-13.73782361	4.09	0
18.7	-9.91	-32.45	-13.79604016	3.88	0
18.8	-10.15	-32.68	-13.85394623	3.71	0
18.9	-10.35	-32.88	-13.9115451	3.56	0
19.0	-10.51	-33.05	-13.96884002	3.46	0
19.1	-10.64	-33.17	-14.02583418	3.39	0

19.2	-10.72	-33.25	-14	3.28	0
19.3	-10.77	-33.30	-14	3.23	0
19.4	-10.78	-33.32	-14	3.22	0
19.5	-10.77	-33.31	-14	3.23	0
19.6	-10.74	-33.28	-14	3.26	0
19.7	-10.70	-33.24	-14	3.30	0
19.8	-10.66	-33.20	-14	3.34	0
19.9	-10.62	-33.16	-14	3.38	0
20.0	-10.60	-33.13	-14	3.40	0
20.1	-10.58	-33.11	-14	3.42	0
20.2	-10.58	-33.12	-14	3.42	0
20.3	-10.60	-33.14	-14	3.40	0
20.4	-10.64	-33.18	-14	3.36	0
20.5	-10.70	-33.24	-14	3.30	0
20.6	-10.78	-33.32	-14	3.22	0
20.7	-10.88	-33.42	-14	3.12	0
20.8	-10.99	-33.53	-14	3.01	0
20.9	-11.12	-33.65	-14	2.88	0
21.0	-11.25	-33.78	-14	2.75	0
21.1	-11.37	-33.91	-14	2.63	0
21.2	-11.49	-34.03	-14	2.51	0
21.3	-11.59	-34.13	-14	2.41	0
21.4	-11.67	-34.20	-14	2.33	0
21.5	-11.71	-34.25	-14	2.29	0
21.6	-11.71	-34.25	-14	2.29	0
21.7	-11.67	-34.21	-14	2.33	0
21.8	-11.58	-34.12	-14	2.42	0
21.9	-11.46	-33.99	-14	2.54	0
22.0	-11.29	-33.82	-14	2.71	0
22.1	-11.09	-33.62	-14	2.91	0
22.2	-10.87	-33.40	-14	3.13	0
22.3	-10.63	-33.17	-14	3.37	0
22.4	-10.39	-32.92	-14	3.61	0
22.5	-10.14	-32.68	-14	3.86	0
22.6	-9.91	-32.44	-14	4.09	0
22.7	-9.69	-32.22	-14	4.31	0
22.8	-9.48	-32.02	-14	4.52	0
22.9	-9.30	-31.83	-14	4.70	0
23.0	-9.14	-31.67	-14	4.86	0
23.1	-9.01	-31.54	-14	4.99	0
23.2	-8.90	-31.44	-14	5.10	0
23.3	-8.83	-31.37	-14	5.17	0
23.4	-8.79	-31.33	-14	5.21	0
23.5	-8.78	-31.32	-14	5.22	0
23.6	-8.81	-31.34	-14	5.19	0
23.7	-8.87	-31.40	-14	5.13	0
23.8	-8.96	-31.49	-14	5.04	0
23.9	-9.09	-31.62	-14	4.91	0
24.0	-9.25	-31.79	-14	4.75	0
24.1	-9.45	-31.99	-14	4.55	0

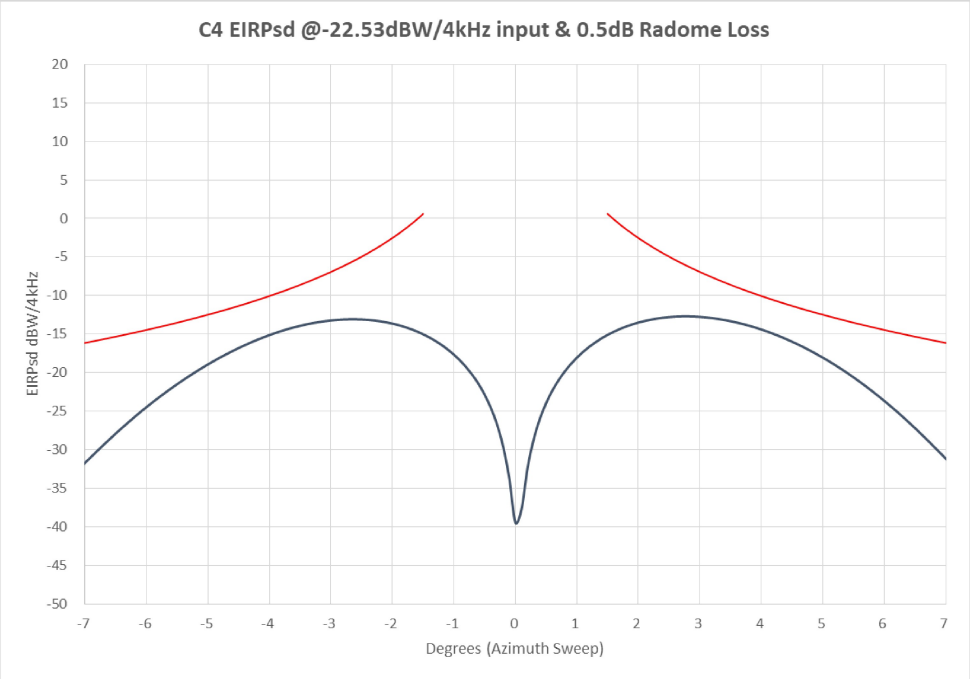
24.2	-9.69	-32.23	-14	4.31	0
24.3	-9.97	-32.50	-14	4.03	0
24.4	-10.29	-32.82	-14	3.71	0
24.5	-10.64	-33.18	-14	3.36	0
24.6	-11.04	-33.58	-14	2.96	0
24.7	-11.49	-34.02	-14	2.51	0
24.8	-11.98	-34.52	-14	2.02	0
24.9	-12.52	-35.05	-14	1.48	0
25.0	-13.11	-35.64	-14	0.89	0
25.1	-13.76	-36.29	-14	0.24	0
25.2	-14.46	-36.99	-14	-0.46	0
25.3	-15.22	-37.76	-14	-1.22	0
25.4	-16.06	-38.59	-14	-2.06	0
25.5	-16.96	-39.50	-14	-2.96	0
25.6	-17.95	-40.49	-14	-3.95	0
25.7	-19.03	-41.56	-14	-5.03	0
25.8	-20.20	-42.73	-14	-6.20	0
25.9	-21.47	-44.00	-14	-7.47	0
26.0	-22.82	-45.36	-14	-8.82	0
26.1	-24.24	-46.78	-14	-10.24	0
26.2	-25.64	-48.17	-14	-11.64	0
26.3	-26.83	-49.37	-14	-12.83	0
26.4	-27.57	-50.10	-14	-13.57	0
26.5	-27.64	-50.17	-14	-13.64	0
26.6	-27.09	-49.63	-14	-13.09	0
26.7	-26.17	-48.71	-14	-12.17	0
26.8	-25.12	-47.65	-14	-11.12	0
26.9	-24.06	-46.60	-14	-10.06	0
27.0	-23.06	-45.60	-14	-9.06	0
27.1	-22.13	-44.67	-14	-8.13	0
27.2	-21.27	-43.81	-14	-7.27	0
27.3	-20.48	-43.01	-14	-6.48	0
27.4	-19.74	-42.28	-14	-5.74	0
27.5	-19.05	-41.59	-14	-5.05	0
27.6	-18.40	-40.94	-14	-4.40	0
27.7	-17.80	-40.33	-14	-3.80	0
27.8	-17.22	-39.76	-14	-3.22	0
27.9	-16.68	-39.22	-14	-2.68	0
28.0	-16.17	-38.70	-14	-2.17	0
28.1	-15.69	-38.22	-14	-1.69	0
28.2	-15.24	-37.77	-14	-1.24	0
28.3	-14.81	-37.35	-14	-0.81	0
28.4	-14.42	-36.95	-14	-0.42	0
28.5	-14.05	-36.59	-14	-0.05	0
28.6	-13.71	-36.25	-14	0.29	0
28.7	-13.40	-35.94	-14	0.60	0
28.8	-13.12	-35.66	-14	0.88	0
28.9	-12.87	-35.40	-14	1.13	0
29.0	-12.64	-35.18	-14	1.36	0
29.1	-12.44	-34.98	-14	1.56	0

29.2	-12.27	-34.81	-14	1.73	0
29.3	-12.13	-34.67	-14	1.87	0
29.4	-12.02	-34.55	-14	1.98	0
29.5	-11.93	-34.46	-14	2.07	0
29.6	-11.87	-34.40	-14	2.13	0
29.7	-11.84	-34.37	-14	2.16	0
29.8	-11.83	-34.36	-14	2.17	0
29.9	-11.85	-34.38	-14	2.15	0
30.0	-11.90	-34.43	-14	2.10	0

2. Maximum cross-polarized EIRP density

4) 14GHz

a) At off-axis angles from ±7° range (Tangent)



Model	C4		Min input: (@all freq.)	-22.53
Frequency	14.00	[GHz]		
GSO arc	Tangent			
EIRPsd Input	-21.75	[dBW/4kHz]		
Radome Loss	0.5	[dB]		

out of spec

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-20.81	-42.56	-24.40228148	3.59	0
-14.9	-20.70	-42.45	-24.32965671	3.62	0
-14.8	-20.65	-42.40	-24.25654288	3.61	0
-14.7	-20.65	-42.39	-24.18293337	3.54	0
-14.6	-20.69	-42.43	-24.10882139	3.42	0
-14.5	-20.77	-42.51	-24.03420006	3.27	0
-14.4	-20.88	-42.63	-23.9590623	3.08	0
-14.3	-21.01	-42.76	-23.88340094	2.87	0
-14.2	-21.15	-42.89	-23.80720861	2.66	0
-14.1	-21.27	-43.02	-23.73047782	2.46	0
-14.0	-21.35	-43.10	-23.65320089	2.30	0
-13.9	-21.38	-43.13	-23.57537001	2.19	0
-13.8	-21.33	-43.08	-23.49697716	2.16	0
-13.7	-21.19	-42.94	-23.41801418	2.22	0
-13.6	-20.96	-42.71	-23.33847271	2.38	0
-13.5	-20.63	-42.38	-23.25834421	2.62	0
-13.4	-20.24	-41.99	-23.17761996	2.94	0
-13.3	-19.79	-41.54	-23.09629102	3.31	0
-13.2	-19.31	-41.06	-23.01434828	3.70	0
-13.1	-18.82	-40.57	-22.93178239	4.11	0
-13.0	-18.34	-40.08	-22.84858381	4.51	0
-12.9	-17.87	-39.62	-22.76474276	4.89	0
-12.8	-17.43	-39.18	-22.68024924	5.25	0
-12.7	-17.03	-38.77	-22.59509302	5.57	0
-12.6	-16.66	-38.41	-22.50926363	5.85	0
-12.5	-16.34	-38.09	-22.42275033	6.08	0
-12.4	-16.06	-37.81	-22.33554213	6.28	0
-12.3	-15.83	-37.57	-22.24762779	6.42	0
-12.2	-15.64	-37.39	-22.15899577	6.52	0
-12.1	-15.50	-37.25	-22.06963426	6.57	0
-12.0	-15.40	-37.15	-21.97953115	6.58	0
-11.9	-15.36	-37.10	-21.88867403	6.53	0
-11.8	-15.36	-37.11	-21.79705018	6.44	0
-11.7	-15.41	-37.15	-21.70464654	6.30	0
-11.6	-15.50	-37.25	-21.61144973	6.11	0
-11.5	-15.65	-37.40	-21.51744601	5.87	0
-11.4	-15.85	-37.60	-21.42262128	5.57	0
-11.3	-16.10	-37.85	-21.32696109	5.23	0
-11.2	-16.40	-38.15	-21.23045057	4.83	0
-11.1	-16.77	-38.51	-21.13307447	4.37	0
-11.0	-17.19	-38.93	-21.03481713	3.85	0
-10.9	-17.67	-39.42	-20.93566245	3.27	0

-10.8	-18.22	-39.97	-20.83559389	2.62	0
-10.7	-18.84	-40.59	-20.73459444	1.89	0
-10.6	-19.55	-41.29	-20.63264663	1.09	0
-10.5	-20.33	-42.08	-20.52973248	0.20	0
-10.4	-21.21	-42.96	-20.42583348	-0.78	0
-10.3	-22.19	-43.93	-20.32093062	-1.86	0
-10.2	-23.26	-45.00	-20.21500429	-3.04	0
-10.1	-24.41	-46.16	-20.10803434	-4.30	0
-10.0	-25.60	-47.35	-20	-5.60	0
-9.9	-26.73	-48.48	-19.89087986	-6.84	0
-9.8	-27.60	-49.35	-19.78065189	-7.82	0
-9.7	-28.00	-49.75	-19.66929336	-8.33	0
-9.6	-27.80	-49.55	-19.55678083	-8.24	0
-9.5	-27.10	-48.85	-19.44309013	-7.66	0
-9.4	-26.14	-47.89	-19.32819634	-6.81	0
-9.3	-25.10	-46.85	-19.21207371	-5.89	0
-9.2	-24.09	-45.84	-19.09469568	-5.00	0
-9.1	-23.16	-44.91	-18.97603481	-4.18	0
-9.0	-22.31	-44.06	-18.85606274	-3.46	0
-8.9	-21.55	-43.30	-18.73475017	-2.82	0
-8.8	-20.87	-42.62	-18.6120668	-2.26	0
-8.7	-20.26	-42.00	-18.48798132	-1.77	0
-8.6	-19.70	-41.45	-18.36246128	-1.34	0
-8.5	-19.18	-40.93	-18.23547314	-0.95	0
-8.4	-18.69	-40.44	-18.10698215	-0.59	0
-8.3	-18.22	-39.97	-17.97695231	-0.25	0
-8.2	-17.76	-39.51	-17.84534631	0.09	0
-8.1	-17.28	-39.03	-17.71212547	0.43	0
-8.0	-16.78	-38.53	-17.57724967	0.79	0
-7.9	-16.25	-38.00	-17.44067728	1.19	0
-7.8	-15.69	-37.43	-17.30236507	1.62	0
-7.7	-15.08	-36.82	-17.16226813	2.08	0
-7.6	-14.43	-36.17	-17.02033981	2.59	0
-7.5	-13.74	-35.48	-16.87653158	3.14	0
-7.4	-13.01	-34.76	-16.73079299	3.72	0
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-7.2	-11.50	-33.25	-16.43331241	4.93	0
-7.1	-10.72	-32.47	-16.28145872	5.56	0
-7.0	-9.94	-31.69	-16.127451	6.19	0
-6.9	-9.16	-30.91	-15.97122727	6.81	0
-6.8	-8.39	-30.13	-15.81272282	7.43	0
-6.7	-7.62	-29.37	-15.65187007	8.03	0
-6.6	-6.87	-28.62	-15.48859839	8.62	0
-6.5	-6.13	-27.88	-15.32283392	9.19	0
-6.4	-5.41	-27.16	-15.15449935	9.74	0
-6.3	-4.71	-26.46	-14.98351374	10.27	0
-6.2	-4.03	-25.77	-14.80979224	10.78	0
-6.1	-3.36	-25.11	-14.63324588	11.27	0
-6.0	-2.71	-24.46	-14.45378126	11.74	0
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-5.8	-1.46	-23.21	-14.08569984	12.62	0
-5.7	-0.87	-22.61	-13.89687139	13.03	0
-5.6	-0.29	-22.04	-13.70470068	13.42	0
-5.5	0.27	-21.47	-13.50906724	13.78	0
-5.4	0.82	-20.93	-13.309844	14.13	0
-5.3	1.35	-20.40	-13.10689674	14.45	0
-5.2	1.86	-19.89	-12.90008359	14.76	0
-5.1	2.35	-19.40	-12.6892544	15.04	0
-5.0	2.83	-18.92	-12.47425011	15.30	0
-4.9	3.29	-18.46	-12.254902	15.54	0
-4.8	3.73	-18.02	-12.03103093	15.76	0
-4.7	4.15	-17.59	-11.80244645	15.96	0
-4.6	4.56	-17.19	-11.56894579	16.13	0
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-4.4	5.32	-16.42	-11.08631691	16.41	0
-4.3	5.68	-16.07	-10.83671139	16.51	0
-4.2	6.01	-15.73	-10.58123226	16.60	0
-4.1	6.33	-15.42	-10.31959642	16.65	0
-4.0	6.63	-15.12	-10.05149978	16.68	0
-3.9	6.91	-14.84	-9.776615176	16.69	0
-3.8	7.17	-14.58	-9.494589915	16.67	0
-3.7	7.41	-14.34	-9.205043102	16.62	0
-3.6	7.63	-14.11	-8.907562519	16.54	0
-3.5	7.83	-13.91	-8.601701109	16.44	0
-3.4	8.02	-13.73	-8.286972926	16.30	0
-3.3	8.18	-13.57	-7.962848497	16.14	0
-3.2	8.31	-13.43	-7.628749458	15.94	0
-3.1	8.43	-13.32	-7.284042346	15.72	0
-3.0	8.53	-13.22	-6.928031368	15.45	0
-2.9	8.60	-13.15	-6.559949947	15.16	0
-2.8	8.65	-13.10	-6.178950784	14.83	0
-2.7	8.67	-13.07	-5.784094104	14.46	0
-2.6	8.68	-13.07	-5.374333699	14.05	0
-2.5	8.65	-13.10	-4.948500217	13.60	0
-2.4	8.60	-13.15	-4.505281043	13.11	0
-2.3	8.52	-13.22	-4.0431959	12.57	0
-2.2	8.42	-13.33	-3.560567021	11.98	0
-2.1	8.28	-13.46	-3.055482368	11.34	0
-2.0	8.12	-13.63	-2.525749892	10.64	0
-1.9	7.92	-13.83	-1.968840024	9.88	0
-1.8	7.68	-14.07	-1.381812628	9.06	0
-1.7	7.41	-14.34	-0.761223034	8.17	0
-1.6	7.09	-14.65	-0.102999566	7.20	0
-1.5	6.73	-15.01	0.597718524	6.14	0
-1.4	6.33	-15.42			
-1.3	5.87	-15.88			
-1.2	5.35	-16.40			
-1.1	4.76	-16.99			
-1.0	4.09	-17.66			
-0.9	3.33	-18.42			

-0.8	2.46	-19.29			
-0.7	1.46	-20.29			
-0.6	0.29	-21.46			
-0.5	-1.11	-22.86			
-0.4	-2.81	-24.55			
-0.3	-4.95	-26.70			
-0.2	-7.81	-29.55			
-0.1	-11.93	-33.68			
0.0	-17.70	-39.45			
0.1	-15.98	-37.73			
0.2	-10.50	-32.25			
0.3	-6.82	-28.57			
0.4	-4.20	-25.95			
0.5	-2.20	-23.95			
0.6	-0.59	-22.34			
0.7	0.75	-21.00			
0.8	1.88	-19.87			
0.9	2.85	-18.89			
1.0	3.70	-18.05			
1.1	4.45	-17.30			
1.2	5.10	-16.65			
1.3	5.68	-16.06			
1.4	6.20	-15.55			
1.5	6.66	-15.09	0.597718524	6.06	0
1.6	7.06	-14.69	-0.102999566	7.17	0
1.7	7.42	-14.33	-0.761223034	8.18	0
1.8	7.74	-14.01	-1.381812628	9.12	0
1.9	8.01	-13.74	-1.968840024	9.98	0
2.0	8.25	-13.50	-2.525749892	10.78	0
2.1	8.45	-13.29	-3.055482368	11.51	0
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2.3	8.76	-12.98	-4.0431959	12.81	0
2.4	8.87	-12.87	-4.505281043	13.38	0
2.5	8.96	-12.79	-4.948500217	13.91	0
2.6	9.01	-12.73	-5.374333699	14.39	0
2.7	9.04	-12.70	-5.784094104	14.83	0
2.8	9.05	-12.70	-6.178950784	15.23	0
2.9	9.03	-12.72	-6.559949947	15.59	0
3.0	8.99	-12.76	-6.928031368	15.91	0
3.1	8.92	-12.83	-7.284042346	16.20	0
3.2	8.83	-12.92	-7.628749458	16.46	0
3.3	8.72	-13.03	-7.962848497	16.68	0
3.4	8.59	-13.16	-8.286972926	16.87	0
3.5	8.43	-13.31	-8.601701109	17.03	0
3.6	8.26	-13.49	-8.907562519	17.17	0
3.7	8.06	-13.68	-9.205043102	17.27	0
3.8	7.85	-13.90	-9.494589915	17.34	0
3.9	7.61	-14.14	-9.776615176	17.39	0
4.0	7.35	-14.39	-10.05149978	17.41	0
4.1	7.08	-14.67	-10.31959642	17.40	0

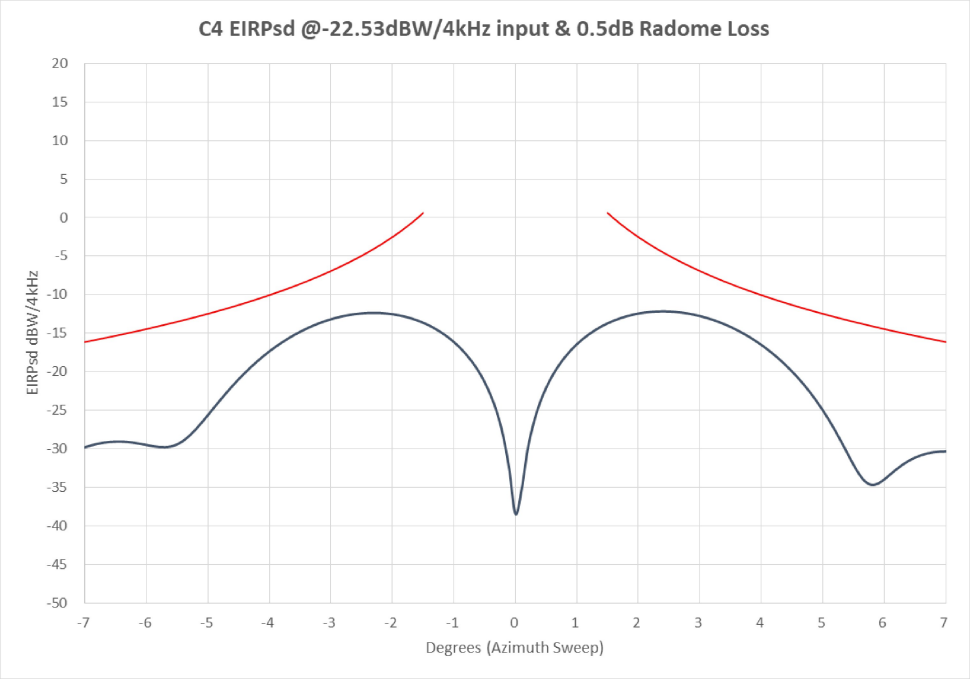
4.2	6.78	-14.97	-10.58123226	17.36	0
4.3	6.46	-15.28	-10.83671139	17.30	0
4.4	6.13	-15.62	-11.08631691	17.22	0
4.5	5.77	-15.97	-11.33031284	17.10	0
4.6	5.40	-16.35	-11.56894579	16.97	0
4.7	5.01	-16.74	-11.80244645	16.81	0
4.8	4.59	-17.16	-12.03103093	16.62	0
4.9	4.16	-17.59	-12.254902	16.41	0
5.0	3.71	-18.04	-12.47425011	16.18	0
5.1	3.23	-18.51	-12.6892544	15.92	0
5.2	2.74	-19.01	-12.90008359	15.64	0
5.3	2.23	-19.52	-13.10689674	15.34	0
5.4	1.70	-20.05	-13.309844	15.01	0
5.5	1.15	-20.60	-13.50906724	14.66	0
5.6	0.58	-21.17	-13.70470068	14.28	0
5.7	-0.01	-21.76	-13.89687139	13.89	0
5.8	-0.62	-22.37	-14.08569984	13.47	0
5.9	-1.25	-23.00	-14.27130029	13.02	0
6.0	-1.90	-23.65	-14.45378126	12.55	0
6.1	-2.57	-24.32	-14.63324588	12.07	0
6.2	-3.26	-25.00	-14.80979224	11.55	0
6.3	-3.96	-25.71	-14.98351374	11.02	0
6.4	-4.69	-26.44	-15.15449935	10.46	0
6.5	-5.44	-27.18	-15.32283392	9.89	0
6.6	-6.20	-27.95	-15.48859839	9.29	0
6.7	-6.98	-28.73	-15.65187007	8.67	0
6.8	-7.77	-29.52	-15.81272282	8.04	0
6.9	-8.58	-30.32	-15.97122727	7.40	0
7.0	-9.39	-31.14	-16.127451	6.74	0
7.1	-10.21	-31.96	-16.28145872	6.07	0
7.2	-11.03	-32.77	-16.43331241	5.41	0
7.3	-11.84	-33.58	-16.5830715	4.75	0
7.4	-12.63	-34.38	-16.73079299	4.10	0
7.5	-13.41	-35.16	-16.87653158	3.47	0
7.6	-14.15	-35.90	-17.02033981	2.87	0
7.7	-14.85	-36.60	-17.16226813	2.31	0
7.8	-15.51	-37.25	-17.30236507	1.80	0
7.9	-16.11	-37.86	-17.44067728	1.33	0
8.0	-16.65	-38.40	-17.57724967	0.92	0
8.1	-17.14	-38.89	-17.71212547	0.57	0
8.2	-17.58	-39.33	-17.84534631	0.27	0
8.3	-17.97	-39.72	-17.97695231	0.00	0
8.4	-18.33	-40.08	-18.10698215	-0.22	0
8.5	-18.66	-40.40	-18.23547314	-0.42	0
8.6	-18.96	-40.71	-18.36246128	-0.60	0
8.7	-19.26	-41.00	-18.48798132	-0.77	0
8.8	-19.54	-41.28	-18.6120668	-0.93	0
8.9	-19.81	-41.56	-18.73475017	-1.07	0
9.0	-20.07	-41.82	-18.85606274	-1.21	0
9.1	-20.31	-42.06	-18.97603481	-1.33	0

9.2	-20.52	-42.27	-19.09469568	-1.43	0
9.3	-20.70	-42.45	-19.21207371	-1.49	0
9.4	-20.83	-42.58	-19.32819634	-1.50	0
9.5	-20.89	-42.64	-19.44309013	-1.45	0
9.6	-20.88	-42.63	-19.55678083	-1.32	0
9.7	-20.79	-42.54	-19.66929336	-1.12	0
9.8	-20.61	-42.36	-19.78065189	-0.83	0
9.9	-20.37	-42.11	-19.89087986	-0.48	0
10.0	-20.06	-41.80	-20	-0.06	0
10.1	-19.70	-41.44	-20.10803434	0.41	0
10.2	-19.30	-41.05	-20.21500429	0.91	0
10.3	-18.89	-40.64	-20.32093062	1.43	0
10.4	-18.47	-40.22	-20.42583348	1.96	0
10.5	-18.05	-39.80	-20.52973248	2.48	0
10.6	-17.65	-39.40	-20.63264663	2.98	0
10.7	-17.26	-39.01	-20.73459444	3.47	0
10.8	-16.90	-38.65	-20.83559389	3.94	0
10.9	-16.56	-38.31	-20.93566245	4.38	0
11.0	-16.25	-38.00	-21.03481713	4.78	0
11.1	-15.97	-37.72	-21.13307447	5.16	0
11.2	-15.72	-37.46	-21.23045057	5.51	0
11.3	-15.49	-37.24	-21.32696109	5.83	0
11.4	-15.30	-37.05	-21.42262128	6.12	0
11.5	-15.14	-36.89	-21.51744601	6.38	0
11.6	-15.01	-36.76	-21.61144973	6.60	0
11.7	-14.91	-36.65	-21.70464654	6.80	0
11.8	-14.83	-36.58	-21.79705018	6.96	0
11.9	-14.79	-36.54	-21.88867403	7.10	0
12.0	-14.77	-36.52	-21.97953115	7.20	0
12.1	-14.79	-36.53	-22.06963426	7.28	0
12.2	-14.83	-36.58	-22.15899577	7.33	0
12.3	-14.90	-36.64	-22.24762779	7.35	0
12.4	-14.99	-36.74	-22.33554213	7.34	0
12.5	-15.11	-36.86	-22.42275033	7.31	0
12.6	-15.26	-37.01	-22.50926363	7.25	0
12.7	-15.44	-37.19	-22.59509302	7.16	0
12.8	-15.64	-37.39	-22.68024924	7.04	0
12.9	-15.87	-37.62	-22.76474276	6.89	0
13.0	-16.12	-37.87	-22.84858381	6.72	0
13.1	-16.40	-38.15	-22.93178239	6.53	0
13.2	-16.71	-38.46	-23.01434828	6.30	0
13.3	-17.04	-38.79	-23.09629102	6.06	0
13.4	-17.40	-39.14	-23.17761996	5.78	0
13.5	-17.77	-39.52	-23.25834421	5.48	0
13.6	-18.18	-39.92	-23.33847271	5.16	0
13.7	-18.60	-40.35	-23.41801418	4.82	0
13.8	-19.04	-40.79	-23.49697716	4.46	0
13.9	-19.50	-41.25	-23.57537001	4.08	0
14.0	-19.97	-41.72	-23.65320089	3.68	0
14.1	-20.45	-42.20	-23.73047782	3.28	0

14.2	-20.94	-42.69	-23.80720861	2.87	0
14.3	-21.42	-43.17	-23.88340094	2.46	0
14.4	-21.90	-43.64	-23.9590623	2.06	0
14.5	-22.35	-44.09	-24.03420006	1.69	0
14.6	-22.76	-44.51	-24.10882139	1.35	0
14.7	-23.13	-44.88	-24.18293337	1.05	0
14.8	-23.45	-45.19	-24.25654288	0.81	0
14.9	-23.69	-45.44	-24.32965671	0.64	0
15.0	-23.86	-45.61	-24.40228148	0.54	0

6) 14.5GHz

a) At off-axis angles from ±7° range (Tangent)



Model	C4		Min input: (@all freq.) -22.53
Frequency	14.50	[GHz]	
GSO arc	Tangent		
EIRPsd Input	-22.53	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-18.45	-40.98	-24.40228148	5.95	0
-14.9	-18.50	-41.03	-24.32965671	5.83	0
-14.8	-18.58	-41.11	-24.25654288	5.68	0
-14.7	-18.69	-41.22	-24.18293337	5.50	0
-14.6	-18.83	-41.37	-24.10882139	5.28	0
-14.5	-19.02	-41.55	-24.03420006	5.02	0
-14.4	-19.25	-41.78	-23.9590623	4.71	0
-14.3	-19.53	-42.06	-23.88340094	4.36	0
-14.2	-19.85	-42.39	-23.80720861	3.95	0
-14.1	-20.23	-42.77	-23.73047782	3.50	0
-14.0	-20.67	-43.20	-23.65320089	2.99	0
-13.9	-21.15	-43.68	-23.57537001	2.43	0
-13.8	-21.67	-44.20	-23.49697716	1.83	0
-13.7	-22.22	-44.75	-23.41801418	1.20	0
-13.6	-22.78	-45.31	-23.33847271	0.56	0
-13.5	-23.31	-45.84	-23.25834421	-0.05	0
-13.4	-23.77	-46.31	-23.17761996	-0.59	0
-13.3	-24.11	-46.65	-23.09629102	-1.02	0
-13.2	-24.29	-46.82	-23.01434828	-1.28	0
-13.1	-24.28	-46.82	-22.93178239	-1.35	0
-13.0	-24.10	-46.63	-22.84858381	-1.25	0
-12.9	-23.78	-46.31	-22.76474276	-1.01	0
-12.8	-23.37	-45.90	-22.68024924	-0.69	0
-12.7	-22.93	-45.46	-22.59509302	-0.33	0
-12.6	-22.50	-45.03	-22.50926363	0.01	0
-12.5	-22.10	-44.64	-22.42275033	0.32	0
-12.4	-21.77	-44.31	-22.33554213	0.56	0
-12.3	-21.52	-44.06	-22.24762779	0.73	0
-12.2	-21.36	-43.89	-22.15899577	0.80	0
-12.1	-21.29	-43.83	-22.06963426	0.78	0
-12.0	-21.33	-43.87	-21.97953115	0.65	0
-11.9	-21.49	-44.03	-21.88867403	0.40	0
-11.8	-21.78	-44.32	-21.79705018	0.01	0
-11.7	-22.22	-44.76	-21.70464654	-0.52	0
-11.6	-22.84	-45.37	-21.61144973	-1.22	0
-11.5	-23.66	-46.19	-21.51744601	-2.14	0
-11.4	-24.73	-47.27	-21.42262128	-3.31	0
-11.3	-26.14	-48.67	-21.32696109	-4.81	0
-11.2	-27.97	-50.51	-21.23045057	-6.74	0
-11.1	-30.35	-52.89	-21.13307447	-9.22	0
-11.0	-33.05	-55.59	-21.03481713	-12.02	0
-10.9	-34.09	-56.63	-20.93566245	-13.16	0

-10.8	-31.72	-54.25	-20.83559389	-10.88	0
-10.7	-28.54	-51.07	-20.73459444	-7.80	0
-10.6	-25.83	-48.37	-20.63264663	-5.20	0
-10.5	-23.64	-46.17	-20.52973248	-3.11	0
-10.4	-21.83	-44.37	-20.42583348	-1.41	0
-10.3	-20.33	-42.86	-20.32093062	-0.01	0
-10.2	-19.05	-41.59	-20.21500429	1.16	0
-10.1	-17.96	-40.50	-20.10803434	2.14	0
-10.0	-17.03	-39.56	-20	2.97	0
-9.9	-16.21	-38.75	-19.89087986	3.68	0
-9.8	-15.51	-38.05	-19.78065189	4.27	0
-9.7	-14.91	-37.44	-19.66929336	4.76	0
-9.6	-14.39	-36.93	-19.55678083	5.17	0
-9.5	-13.95	-36.48	-19.44309013	5.49	0
-9.4	-13.58	-36.11	-19.32819634	5.75	0
-9.3	-13.26	-35.80	-19.21207371	5.95	0
-9.2	-13.01	-35.54	-19.09469568	6.09	0
-9.1	-12.79	-35.33	-18.97603481	6.18	0
-9.0	-12.62	-35.16	-18.85606274	6.23	0
-8.9	-12.48	-35.01	-18.73475017	6.25	0
-8.8	-12.36	-34.89	-18.6120668	6.25	0
-8.7	-12.25	-34.78	-18.48798132	6.24	0
-8.6	-12.14	-34.67	-18.36246128	6.22	0
-8.5	-12.02	-34.55	-18.23547314	6.22	0
-8.4	-11.87	-34.40	-18.10698215	6.24	0
-8.3	-11.69	-34.22	-17.97695231	6.29	0
-8.2	-11.47	-34.00	-17.84534631	6.38	0
-8.1	-11.21	-33.74	-17.71212547	6.51	0
-8.0	-10.90	-33.43	-17.57724967	6.68	0
-7.9	-10.55	-33.09	-17.44067728	6.89	0
-7.8	-10.18	-32.71	-17.30236507	7.12	0
-7.7	-9.78	-32.32	-17.16226813	7.38	0
-7.6	-9.38	-31.91	-17.02033981	7.64	0
-7.5	-8.97	-31.51	-16.87653158	7.91	0
-7.4	-8.57	-31.11	-16.73079299	8.16	0
-7.3	-8.20	-30.73	-16.5830715	8.38	0
-7.2	-7.85	-30.38	-16.43331241	8.59	0
-7.1	-7.53	-30.06	-16.28145872	8.75	0
-7.0	-7.25	-29.78	-16.127451	8.88	0
-6.9	-7.01	-29.54	-15.97122727	8.96	0
-6.8	-6.81	-29.35	-15.81272282	9.00	0
-6.7	-6.67	-29.20	-15.65187007	8.98	0
-6.6	-6.57	-29.10	-15.48859839	8.92	0
-6.5	-6.52	-29.06	-15.32283392	8.80	0
-6.4	-6.53	-29.06	-15.15449935	8.63	0
-6.3	-6.58	-29.11	-14.98351374	8.40	0
-6.2	-6.68	-29.21	-14.80979224	8.13	0
-6.1	-6.81	-29.34	-14.63324588	7.83	0
-6.0	-6.96	-29.49	-14.45378126	7.49	0
-5.9	-7.11	-29.64	-14.27130029	7.16	0

-5.8	-7.22	-29.75	-14.08569984	6.87	0
-5.7	-7.25	-29.78	-13.89687139	6.65	0
-5.6	-7.15	-29.68	-13.70470068	6.56	0
-5.5	-6.87	-29.40	-13.50906724	6.64	0
-5.4	-6.40	-28.93	-13.309844	6.91	0
-5.3	-5.74	-28.28	-13.10689674	7.37	0
-5.2	-4.94	-27.47	-12.90008359	7.96	0
-5.1	-4.03	-26.56	-12.6892544	8.66	0
-5.0	-3.07	-25.60	-12.47425011	9.41	0
-4.9	-2.09	-24.62	-12.254902	10.16	0
-4.8	-1.12	-23.66	-12.03103093	10.91	0
-4.7	-0.18	-22.71	-11.80244645	11.62	0
-4.6	0.72	-21.81	-11.56894579	12.29	0
-4.5	1.58	-20.95	-11.33031284	12.91	0
-4.4	2.40	-20.14	-11.08631691	13.48	0
-4.3	3.17	-19.37	-10.83671139	14.00	0
-4.2	3.89	-18.65	-10.58123226	14.47	0
-4.1	4.56	-17.97	-10.31959642	14.88	0
-4.0	5.19	-17.34	-10.05149978	15.25	0
-3.9	5.78	-16.75	-9.776615176	15.56	0
-3.8	6.33	-16.20	-9.494589915	15.82	0
-3.7	6.84	-15.70	-9.205043102	16.04	0
-3.6	7.31	-15.23	-8.907562519	16.21	0
-3.5	7.74	-14.80	-8.601701109	16.34	0
-3.4	8.13	-14.41	-8.286972926	16.42	0
-3.3	8.49	-14.05	-7.962848497	16.45	0
-3.2	8.81	-13.73	-7.628749458	16.44	0
-3.1	9.10	-13.44	-7.284042346	16.38	0
-3.0	9.35	-13.18	-6.928031368	16.28	0
-2.9	9.57	-12.97	-6.559949947	16.13	0
-2.8	9.76	-12.78	-6.178950784	15.93	0
-2.7	9.91	-12.63	-5.784094104	15.69	0
-2.6	10.03	-12.51	-5.374333699	15.40	0
-2.5	10.11	-12.42	-4.948500217	15.06	0
-2.4	10.16	-12.37	-4.505281043	14.67	0
-2.3	10.18	-12.36	-4.0431959	14.22	0
-2.2	10.16	-12.38	-3.560567021	13.72	0
-2.1	10.10	-12.44	-3.055482368	13.15	0
-2.0	10.00	-12.53	-2.525749892	12.53	0
-1.9	9.87	-12.66	-1.968840024	11.84	0
-1.8	9.69	-12.84	-1.381812628	11.08	0
-1.7	9.48	-13.06	-0.761223034	10.24	0
-1.6	9.21	-13.32	-0.102999566	9.31	0
-1.5	8.90	-13.64	0.597718524	8.30	0
-1.4	8.53	-14.01			
-1.3	8.10	-14.43			
-1.2	7.61	-14.93			
-1.1	7.04	-15.49			
-1.0	6.39	-16.14			
-0.9	5.65	-16.89			

-0.8	4.79	-17.75			
-0.7	3.78	-18.75			
-0.6	2.60	-19.93			
-0.5	1.19	-21.35			
-0.4	-0.55	-23.08			
-0.3	-2.76	-25.29			
-0.2	-5.73	-28.27			
-0.1	-10.10	-32.63			
0.0	-15.91	-38.45			
0.1	-12.83	-35.37			
0.2	-7.52	-30.06			
0.3	-4.01	-26.54			
0.4	-1.49	-24.02			
0.5	0.45	-22.09			
0.6	2.00	-20.53			
0.7	3.29	-19.25			
0.8	4.38	-18.16			
0.9	5.31	-17.23			
1.0	6.11	-16.43			
1.1	6.81	-15.73			
1.2	7.42	-15.12			
1.3	7.95	-14.58			
1.4	8.42	-14.12			
1.5	8.82	-13.71	0.597718524	8.22	0
1.6	9.17	-13.37	-0.102999566	9.27	0
1.7	9.47	-13.07	-0.761223034	10.23	0
1.8	9.72	-12.82	-1.381812628	11.10	0
1.9	9.92	-12.61	-1.968840024	11.89	0
2.0	10.09	-12.45	-2.525749892	12.61	0
2.1	10.21	-12.32	-3.055482368	13.27	0
2.2	10.30	-12.23	-3.560567021	13.86	0
2.3	10.36	-12.18	-4.0431959	14.40	0
2.4	10.37	-12.16	-4.505281043	14.88	0
2.5	10.35	-12.18	-4.948500217	15.30	0
2.6	10.30	-12.23	-5.374333699	15.68	0
2.7	10.22	-12.32	-5.784094104	16.00	0
2.8	10.10	-12.43	-6.178950784	16.28	0
2.9	9.95	-12.58	-6.559949947	16.51	0
3.0	9.77	-12.77	-6.928031368	16.70	0
3.1	9.55	-12.98	-7.284042346	16.84	0
3.2	9.30	-13.23	-7.628749458	16.93	0
3.3	9.02	-13.51	-7.962848497	16.98	0
3.4	8.71	-13.83	-8.286972926	16.99	0
3.5	8.35	-14.18	-8.601701109	16.95	0
3.6	7.97	-14.57	-8.907562519	16.87	0
3.7	7.54	-14.99	-9.205043102	16.75	0
3.8	7.08	-15.46	-9.494589915	16.57	0
3.9	6.57	-15.96	-9.776615176	16.35	0
4.0	6.03	-16.51	-10.05149978	16.08	0
4.1	5.44	-17.10	-10.31959642	15.76	0

4.2	4.80	-17.73	-10.58123226	15.38	0
4.3	4.12	-18.42	-10.83671139	14.95	0
4.4	3.38	-19.16	-11.08631691	14.46	0
4.5	2.58	-19.95	-11.33031284	13.91	0
4.6	1.72	-20.81	-11.56894579	13.29	0
4.7	0.80	-21.74	-11.80244645	12.60	0
4.8	-0.20	-22.74	-12.03103093	11.83	0
4.9	-1.28	-23.82	-12.254902	10.97	0
5.0	-2.45	-24.99	-12.47425011	10.02	0
5.1	-3.71	-26.25	-12.6892544	8.98	0
5.2	-5.07	-27.61	-12.90008359	7.83	0
5.3	-6.52	-29.05	-13.10689674	6.59	0
5.4	-8.03	-30.56	-13.309844	5.28	0
5.5	-9.52	-32.05	-13.50906724	3.99	0
5.6	-10.84	-33.37	-13.70470068	2.87	0
5.7	-11.77	-34.30	-13.89687139	2.13	0
5.8	-12.14	-34.67	-14.08569984	1.95	0
5.9	-11.96	-34.49	-14.27130029	2.31	0
6.0	-11.43	-33.96	-14.45378126	3.02	0
6.1	-10.77	-33.30	-14.63324588	3.87	0
6.2	-10.11	-32.64	-14.80979224	4.70	0
6.3	-9.51	-32.05	-14.98351374	5.47	0
6.4	-9.01	-31.54	-15.15449935	6.15	0
6.5	-8.60	-31.14	-15.32283392	6.72	0
6.6	-8.29	-30.82	-15.48859839	7.20	0
6.7	-8.06	-30.59	-15.65187007	7.60	0
6.8	-7.90	-30.44	-15.81272282	7.91	0
6.9	-7.82	-30.35	-15.97122727	8.15	0
7.0	-7.80	-30.33	-16.127451	8.33	0
7.1	-7.83	-30.37	-16.28145872	8.45	0
7.2	-7.92	-30.45	-16.43331241	8.52	0
7.3	-8.04	-30.58	-16.5830715	8.54	0
7.4	-8.21	-30.74	-16.73079299	8.53	0
7.5	-8.40	-30.93	-16.87653158	8.48	0
7.6	-8.62	-31.15	-17.02033981	8.40	0
7.7	-8.86	-31.39	-17.16226813	8.30	0
7.8	-9.11	-31.65	-17.30236507	8.19	0
7.9	-9.38	-31.91	-17.44067728	8.06	0
8.0	-9.65	-32.19	-17.57724967	7.93	0
8.1	-9.92	-32.46	-17.71212547	7.79	0
8.2	-10.20	-32.73	-17.84534631	7.65	0
8.3	-10.47	-33.00	-17.97695231	7.51	0
8.4	-10.74	-33.27	-18.10698215	7.37	0
8.5	-11.00	-33.54	-18.23547314	7.23	0
8.6	-11.27	-33.80	-18.36246128	7.09	0
8.7	-11.54	-34.08	-18.48798132	6.95	0
8.8	-11.82	-34.36	-18.6120668	6.79	0
8.9	-12.11	-34.65	-18.73475017	6.62	0
9.0	-12.43	-34.96	-18.85606274	6.43	0
9.1	-12.76	-35.30	-18.97603481	6.21	0

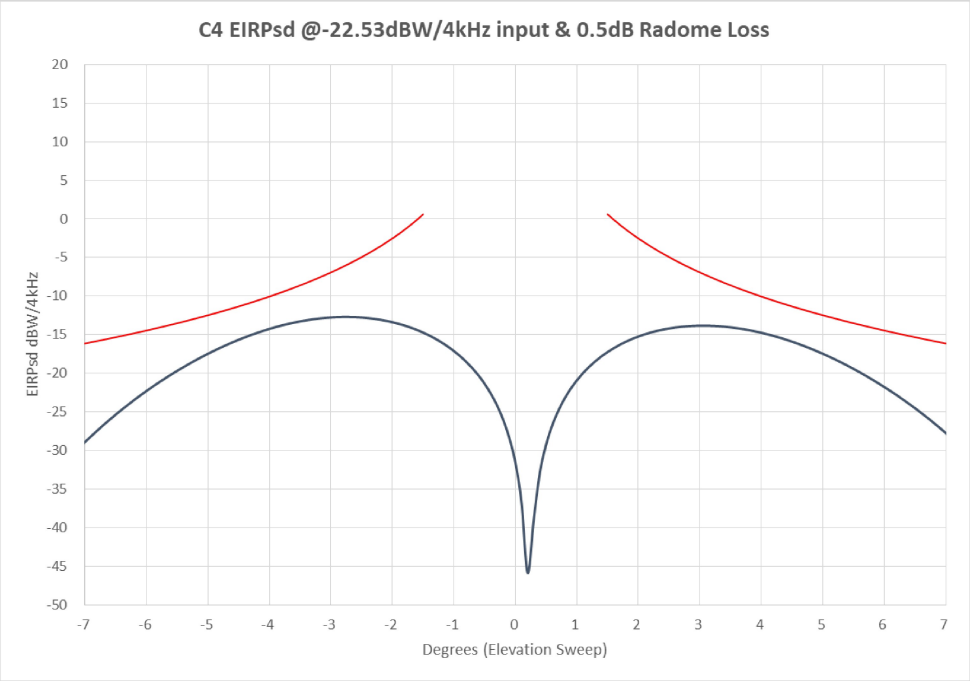
9.2	-13.13	-35.67	-19.09469568	5.96	0
9.3	-13.54	-36.07	-19.21207371	5.67	0
9.4	-13.99	-36.53	-19.32819634	5.34	0
9.5	-14.50	-37.03	-19.44309013	4.95	0
9.6	-15.07	-37.60	-19.55678083	4.49	0
9.7	-15.70	-38.24	-19.66929336	3.96	0
9.8	-16.43	-38.96	-19.78065189	3.35	0
9.9	-17.24	-39.78	-19.89087986	2.65	0
10.0	-18.18	-40.71	-20	1.82	0
10.1	-19.24	-41.78	-20.10803434	0.87	0
10.2	-20.47	-43.00	-20.21500429	-0.25	0
10.3	-21.89	-44.43	-20.32093062	-1.57	0
10.4	-23.56	-46.10	-20.42583348	-3.14	0
10.5	-25.52	-48.06	-20.52973248	-4.99	0
10.6	-27.79	-50.32	-20.63264663	-7.16	0
10.7	-30.12	-52.66	-20.73459444	-9.39	0
10.8	-31.57	-54.10	-20.83559389	-10.73	0
10.9	-30.99	-53.52	-20.93566245	-10.05	0
11.0	-29.14	-51.67	-21.03481713	-8.11	0
11.1	-27.21	-49.74	-21.13307447	-6.07	0
11.2	-25.56	-48.09	-21.23045057	-4.33	0
11.3	-24.22	-46.75	-21.32696109	-2.89	0
11.4	-23.15	-45.68	-21.42262128	-1.72	0
11.5	-22.29	-44.82	-21.51744601	-0.77	0
11.6	-21.62	-44.15	-21.61144973	0.00	0
11.7	-21.10	-43.63	-21.70464654	0.61	0
11.8	-20.71	-43.24	-21.79705018	1.09	0
11.9	-20.44	-42.98	-21.88867403	1.45	0
12.0	-20.28	-42.82	-21.97953115	1.70	0
12.1	-20.22	-42.76	-22.06963426	1.85	0
12.2	-20.25	-42.78	-22.15899577	1.91	0
12.3	-20.36	-42.90	-22.24762779	1.89	0
12.4	-20.55	-43.09	-22.33554213	1.78	0
12.5	-20.82	-43.35	-22.42275033	1.61	0
12.6	-21.14	-43.68	-22.50926363	1.37	0
12.7	-21.52	-44.06	-22.59509302	1.07	0
12.8	-21.93	-44.47	-22.68024924	0.75	0
12.9	-22.36	-44.89	-22.76474276	0.41	0
13.0	-22.76	-45.29	-22.84858381	0.09	0
13.1	-23.10	-45.64	-22.93178239	-0.17	0
13.2	-23.34	-45.88	-23.01434828	-0.33	0
13.3	-23.44	-45.98	-23.09629102	-0.35	0
13.4	-23.38	-45.92	-23.17761996	-0.21	0
13.5	-23.17	-45.70	-23.25834421	0.09	0
13.6	-22.82	-45.35	-23.33847271	0.52	0
13.7	-22.38	-44.91	-23.41801418	1.04	0
13.8	-21.88	-44.42	-23.49697716	1.61	0
13.9	-21.37	-43.91	-23.57537001	2.20	0
14.0	-20.86	-43.40	-23.65320089	2.79	0
14.1	-20.38	-42.92	-23.73047782	3.35	0

14.2	-19.94	-42.47	-23.80720861	3.87	0
14.3	-19.53	-42.06	-23.88340094	4.35	0
14.4	-19.17	-41.70	-23.9590623	4.79	0
14.5	-18.85	-41.39	-24.03420006	5.18	0
14.6	-18.58	-41.11	-24.10882139	5.53	0
14.7	-18.35	-40.88	-24.18293337	5.83	0
14.8	-18.16	-40.69	-24.25654288	6.10	0
14.9	-18.01	-40.54	-24.32965671	6.32	0
15.0	-17.89	-40.43	-24.40228148	6.51	0

2. Maximum cross-polarized EIRP density

4) 14GHz

b) At off-axis angles from ±7° range (Perpendicular)



Model	C4		Min input: (@all freq.) -22.53
Frequency	14.00	[GHz]	
GSO arc	Perpendicular		
EIRPsd Input	-21.75	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-24.10	-45.85	-24.40228148	0.30	0
-14.9	-24.03	-45.78	-24.32965671	0.30	0
-14.8	-23.90	-45.65	-24.25654288	0.35	0
-14.7	-23.71	-45.45	-24.18293337	0.48	0
-14.6	-23.44	-45.19	-24.10882139	0.67	0
-14.5	-23.10	-44.85	-24.03420006	0.93	0
-14.4	-22.70	-44.45	-23.9590623	1.26	0
-14.3	-22.24	-43.99	-23.88340094	1.64	0
-14.2	-21.73	-43.48	-23.80720861	2.08	0
-14.1	-21.18	-42.93	-23.73047782	2.55	0
-14.0	-20.61	-42.36	-23.65320089	3.04	0
-13.9	-20.03	-41.78	-23.57537001	3.54	0
-13.8	-19.45	-41.20	-23.49697716	4.05	0
-13.7	-18.88	-40.62	-23.41801418	4.54	0
-13.6	-18.32	-40.06	-23.33847271	5.02	0
-13.5	-17.78	-39.53	-23.25834421	5.48	0
-13.4	-17.27	-39.02	-23.17761996	5.91	0
-13.3	-16.79	-38.53	-23.09629102	6.31	0
-13.2	-16.33	-38.08	-23.01434828	6.68	0
-13.1	-15.92	-37.67	-22.93178239	7.01	0
-13.0	-15.54	-37.28	-22.84858381	7.31	0
-12.9	-15.19	-36.94	-22.76474276	7.57	0
-12.8	-14.88	-36.63	-22.68024924	7.80	0
-12.7	-14.61	-36.36	-22.59509302	7.98	0
-12.6	-14.38	-36.12	-22.50926363	8.13	0
-12.5	-14.18	-35.93	-22.42275033	8.24	0
-12.4	-14.02	-35.77	-22.33554213	8.31	0
-12.3	-13.90	-35.65	-22.24762779	8.35	0
-12.2	-13.82	-35.57	-22.15899577	8.34	0
-12.1	-13.77	-35.52	-22.06963426	8.30	0
-12.0	-13.77	-35.51	-21.97953115	8.21	0
-11.9	-13.80	-35.54	-21.88867403	8.09	0
-11.8	-13.86	-35.61	-21.79705018	7.93	0
-11.7	-13.97	-35.72	-21.70464654	7.74	0
-11.6	-14.11	-35.86	-21.61144973	7.50	0
-11.5	-14.29	-36.04	-21.51744601	7.23	0
-11.4	-14.51	-36.25	-21.42262128	6.92	0
-11.3	-14.76	-36.51	-21.32696109	6.57	0
-11.2	-15.05	-36.80	-21.23045057	6.18	0
-11.1	-15.38	-37.13	-21.13307447	5.75	0
-11.0	-15.74	-37.49	-21.03481713	5.29	0
-10.9	-16.14	-37.89	-20.93566245	4.79	0

-10.8	-16.58	-38.33	-20.83559389	4.26	0
-10.7	-17.05	-38.80	-20.73459444	3.69	0
-10.6	-17.55	-39.30	-20.63264663	3.08	0
-10.5	-18.09	-39.84	-20.52973248	2.44	0
-10.4	-18.66	-40.41	-20.42583348	1.77	0
-10.3	-19.26	-41.00	-20.32093062	1.06	0
-10.2	-19.88	-41.63	-20.21500429	0.33	0
-10.1	-20.52	-42.27	-20.10803434	-0.42	0
-10.0	-21.18	-42.93	-20	-1.18	0
-9.9	-21.85	-43.59	-19.89087986	-1.96	0
-9.8	-22.51	-44.25	-19.78065189	-2.72	0
-9.7	-23.14	-44.89	-19.66929336	-3.47	0
-9.6	-23.73	-45.48	-19.55678083	-4.17	0
-9.5	-24.25	-46.00	-19.44309013	-4.81	0
-9.4	-24.66	-46.41	-19.32819634	-5.33	0
-9.3	-24.92	-46.67	-19.21207371	-5.71	0
-9.2	-25.02	-46.76	-19.09469568	-5.92	0
-9.1	-24.91	-46.66	-18.97603481	-5.93	0
-9.0	-24.60	-46.35	-18.85606274	-5.75	0
-8.9	-24.11	-45.86	-18.73475017	-5.37	0
-8.8	-23.46	-45.20	-18.6120668	-4.84	0
-8.7	-22.68	-44.43	-18.48798132	-4.19	0
-8.6	-21.81	-43.56	-18.36246128	-3.45	0
-8.5	-20.88	-42.63	-18.23547314	-2.65	0
-8.4	-19.92	-41.66	-18.10698215	-1.81	0
-8.3	-18.93	-40.67	-17.97695231	-0.95	0
-8.2	-17.93	-39.68	-17.84534631	-0.08	0
-8.1	-16.93	-38.68	-17.71212547	0.78	0
-8.0	-15.94	-37.69	-17.57724967	1.63	0
-7.9	-14.97	-36.72	-17.44067728	2.47	0
-7.8	-14.01	-35.76	-17.30236507	3.29	0
-7.7	-13.07	-34.82	-17.16226813	4.09	0
-7.6	-12.15	-33.90	-17.02033981	4.87	0
-7.5	-11.26	-33.01	-16.87653158	5.62	0
-7.4	-10.39	-32.14	-16.73079299	6.34	0
-7.3	-9.54	-31.29	-16.5830715	7.04	0
-7.2	-8.72	-30.47	-16.43331241	7.72	0
-7.1	-7.92	-29.66	-16.28145872	8.36	0
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-6.9	-6.39	-28.13	-15.97122727	9.59	0
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-6.6	-4.25	-26.00	-15.48859839	11.23	0
-6.5	-3.59	-25.33	-15.32283392	11.74	0
-6.4	-2.94	-24.68	-15.15449935	12.22	0
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-6.2	-1.70	-23.45	-14.80979224	13.11	0
-6.1	-1.11	-22.85	-14.63324588	13.53	0
-6.0	-0.53	-22.28	-14.45378126	13.92	0
-5.9	0.02	-21.72	-14.27130029	14.30	0

-5.8	0.56	-21.18	-14.08569984	14.65	0
-5.7	1.09	-20.66	-13.89687139	14.98	0
-5.6	1.59	-20.16	-13.70470068	15.30	0
-5.5	2.08	-19.67	-13.50906724	15.59	0
-5.4	2.55	-19.19	-13.309844	15.86	0
-5.3	3.01	-18.74	-13.10689674	16.12	0
-5.2	3.45	-18.30	-12.90008359	16.35	0
-5.1	3.88	-17.87	-12.6892544	16.57	0
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-4.8	5.06	-16.69	-12.03103093	17.09	0
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-4.0	7.51	-14.24	-10.05149978	17.56	0
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-3.2	8.84	-12.90	-7.628749458	16.47	0
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-2.2	8.69	-13.06	-3.560567021	12.25	0
-2.1	8.54	-13.20	-3.055482368	11.60	0
-2.0	8.37	-13.38	-2.525749892	10.90	0
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-1.4	6.65	-15.10			
-1.3	6.22	-15.53			
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-1.1	5.22	-16.52			
-1.0	4.64	-17.11			
-0.9	3.98	-17.77			

-0.8	3.25	-18.50			
-0.7	2.41	-19.33			
-0.6	1.47	-20.28			
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-0.4	-0.88	-22.63			
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-0.1	-6.60	-28.35			
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0.1	-15.00	-36.75			
0.2	-24.11	-45.86			
0.3	-17.04	-38.78			
0.4	-11.06	-32.80			
0.5	-7.49	-29.23			
0.6	-4.98	-26.73			
0.7	-3.06	-24.81			
0.8	-1.52	-23.27			
0.9	-0.24	-21.99			
1.0	0.84	-20.90			
1.1	1.78	-19.97			
1.2	2.60	-19.15			
1.3	3.31	-18.43			
1.4	3.95	-17.80			
1.5	4.51	-17.24	0.597718524	3.91	0
1.6	5.01	-16.74	-0.102999566	5.11	0
1.7	5.46	-16.29	-0.761223034	6.22	0
1.8	5.85	-15.90	-1.381812628	7.23	0
1.9	6.20	-15.54	-1.968840024	8.17	0
2.0	6.52	-15.23	-2.525749892	9.04	0
2.1	6.79	-14.96	-3.055482368	9.85	0
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2.3	7.24	-14.51	-4.0431959	11.28	0
2.4	7.41	-14.33	-4.505281043	11.92	0
2.5	7.56	-14.19	-4.948500217	12.51	0
2.6	7.68	-14.07	-5.374333699	13.06	0
2.7	7.78	-13.97	-5.784094104	13.56	0
2.8	7.85	-13.90	-6.178950784	14.03	0
2.9	7.89	-13.86	-6.559949947	14.45	0
3.0	7.91	-13.83	-6.928031368	14.84	0
3.1	7.92	-13.83	-7.284042346	15.20	0
3.2	7.89	-13.85	-7.628749458	15.52	0
3.3	7.85	-13.90	-7.962848497	15.81	0
3.4	7.79	-13.96	-8.286972926	16.08	0
3.5	7.71	-14.04	-8.601701109	16.31	0
3.6	7.60	-14.15	-8.907562519	16.51	0
3.7	7.48	-14.27	-9.205043102	16.69	0
3.8	7.34	-14.41	-9.494589915	16.83	0
3.9	7.18	-14.57	-9.776615176	16.96	0
4.0	7.00	-14.75	-10.05149978	17.05	0
4.1	6.81	-14.94	-10.31959642	17.13	0

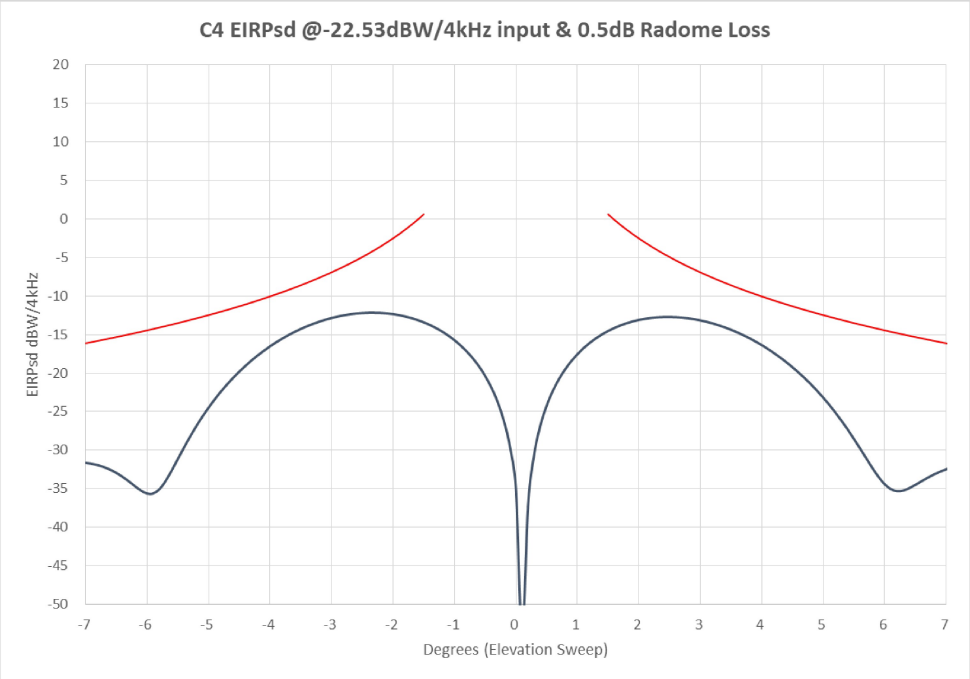
4.2	6.59	-15.15	-10.58123226	17.18	0
4.3	6.36	-15.38	-10.83671139	17.20	0
4.4	6.12	-15.63	-11.08631691	17.20	0
4.5	5.85	-15.90	-11.33031284	17.18	0
4.6	5.57	-16.18	-11.56894579	17.14	0
4.7	5.27	-16.47	-11.80244645	17.08	0
4.8	4.96	-16.79	-12.03103093	16.99	0
4.9	4.63	-17.12	-12.254902	16.89	0
5.0	4.29	-17.46	-12.47425011	16.76	0
5.1	3.92	-17.82	-12.6892544	16.61	0
5.2	3.55	-18.20	-12.90008359	16.45	0
5.3	3.16	-18.59	-13.10689674	16.26	0
5.4	2.75	-19.00	-13.309844	16.06	0
5.5	2.33	-19.42	-13.50906724	15.83	0
5.6	1.89	-19.86	-13.70470068	15.59	0
5.7	1.43	-20.31	-13.89687139	15.33	0
5.8	0.97	-20.78	-14.08569984	15.05	0
5.9	0.48	-21.27	-14.27130029	14.75	0
6.0	-0.02	-21.77	-14.45378126	14.44	0
6.1	-0.53	-22.28	-14.63324588	14.10	0
6.2	-1.07	-22.81	-14.80979224	13.74	0
6.3	-1.62	-23.36	-14.98351374	13.37	0
6.4	-2.18	-23.93	-15.15449935	12.97	0
6.5	-2.77	-24.51	-15.32283392	12.56	0
6.6	-3.37	-25.12	-15.48859839	12.12	0
6.7	-3.99	-25.74	-15.65187007	11.66	0
6.8	-4.63	-26.38	-15.81272282	11.18	0
6.9	-5.29	-27.04	-15.97122727	10.68	0
7.0	-5.98	-27.73	-16.127451	10.15	0
7.1	-6.69	-28.44	-16.28145872	9.59	0
7.2	-7.42	-29.17	-16.43331241	9.01	0
7.3	-8.18	-29.93	-16.5830715	8.40	0
7.4	-8.97	-30.72	-16.73079299	7.76	0
7.5	-9.79	-31.54	-16.87653158	7.08	0
7.6	-10.64	-32.39	-17.02033981	6.38	0
7.7	-11.53	-33.27	-17.16226813	5.64	0
7.8	-12.44	-34.19	-17.30236507	4.86	0
7.9	-13.40	-35.14	-17.44067728	4.05	0
8.0	-14.38	-36.13	-17.57724967	3.19	0
8.1	-15.41	-37.16	-17.71212547	2.30	0
8.2	-16.47	-38.21	-17.84534631	1.38	0
8.3	-17.55	-39.30	-17.97695231	0.43	0
8.4	-18.65	-40.40	-18.10698215	-0.55	0
8.5	-19.76	-41.51	-18.23547314	-1.52	0
8.6	-20.84	-42.59	-18.36246128	-2.48	0
8.7	-21.87	-43.62	-18.48798132	-3.38	0
8.8	-22.79	-44.54	-18.6120668	-4.18	0
8.9	-23.56	-45.31	-18.73475017	-4.82	0
9.0	-24.13	-45.87	-18.85606274	-5.27	0
9.1	-24.47	-46.22	-18.97603481	-5.49	0

9.2	-24.59	-46.34	-19.09469568	-5.50	0
9.3	-24.52	-46.27	-19.21207371	-5.31	0
9.4	-24.31	-46.06	-19.32819634	-4.98	0
9.5	-24.00	-45.75	-19.44309013	-4.56	0
9.6	-23.62	-45.37	-19.55678083	-4.06	0
9.7	-23.20	-44.94	-19.66929336	-3.53	0
9.8	-22.75	-44.50	-19.78065189	-2.97	0
9.9	-22.29	-44.04	-19.89087986	-2.40	0
10.0	-21.82	-43.57	-20	-1.82	0
10.1	-21.35	-43.10	-20.10803434	-1.24	0
10.2	-20.89	-42.64	-20.21500429	-0.67	0
10.3	-20.43	-42.18	-20.32093062	-0.11	0
10.4	-19.98	-41.73	-20.42583348	0.44	0
10.5	-19.55	-41.29	-20.52973248	0.98	0
10.6	-19.12	-40.87	-20.63264663	1.51	0
10.7	-18.72	-40.47	-20.73459444	2.01	0
10.8	-18.34	-40.08	-20.83559389	2.50	0
10.9	-17.97	-39.72	-20.93566245	2.96	0
11.0	-17.63	-39.38	-21.03481713	3.40	0
11.1	-17.31	-39.06	-21.13307447	3.82	0
11.2	-17.02	-38.77	-21.23045057	4.21	0
11.3	-16.75	-38.50	-21.32696109	4.58	0
11.4	-16.50	-38.25	-21.42262128	4.92	0
11.5	-16.28	-38.03	-21.51744601	5.23	0
11.6	-16.09	-37.84	-21.61144973	5.52	0
11.7	-15.92	-37.67	-21.70464654	5.79	0
11.8	-15.77	-37.52	-21.79705018	6.02	0
11.9	-15.65	-37.40	-21.88867403	6.24	0
12.0	-15.56	-37.31	-21.97953115	6.42	0
12.1	-15.49	-37.23	-22.06963426	6.58	0
12.2	-15.44	-37.19	-22.15899577	6.72	0
12.3	-15.42	-37.17	-22.24762779	6.83	0
12.4	-15.42	-37.17	-22.33554213	6.91	0
12.5	-15.45	-37.19	-22.42275033	6.98	0
12.6	-15.50	-37.24	-22.50926363	7.01	0
12.7	-15.57	-37.32	-22.59509302	7.03	0
12.8	-15.66	-37.41	-22.68024924	7.02	0
12.9	-15.78	-37.53	-22.76474276	6.98	0
13.0	-15.92	-37.67	-22.84858381	6.93	0
13.1	-16.08	-37.83	-22.93178239	6.85	0
13.2	-16.27	-38.02	-23.01434828	6.74	0
13.3	-16.48	-38.22	-23.09629102	6.62	0
13.4	-16.71	-38.45	-23.17761996	6.47	0
13.5	-16.96	-38.70	-23.25834421	6.30	0
13.6	-17.23	-38.98	-23.33847271	6.11	0
13.7	-17.52	-39.27	-23.41801418	5.89	0
13.8	-17.84	-39.59	-23.49697716	5.66	0
13.9	-18.18	-39.93	-23.57537001	5.40	0
14.0	-18.54	-40.29	-23.65320089	5.11	0
14.1	-18.93	-40.67	-23.73047782	4.80	0

14.2	-19.34	-41.08	-23.80720861	4.47	0
14.3	-19.77	-41.52	-23.88340094	4.11	0
14.4	-20.24	-41.98	-23.9590623	3.72	0
14.5	-20.73	-42.48	-24.03420006	3.31	0
14.6	-21.25	-43.00	-24.10882139	2.86	0
14.7	-21.81	-43.56	-24.18293337	2.37	0
14.8	-22.40	-44.15	-24.25654288	1.85	0
14.9	-23.04	-44.78	-24.32965671	1.29	0
15.0	-23.71	-45.46	-24.40228148	0.69	0

6) 14.5GHz

b) At off-axis angles from ±7° range (Perpendicular)



Model	C4		Min input: (@all freq.) -22.53
Frequency	14.50	[GHz]	
GSO arc	Perpendicular		
EIRPsd Input	-22.53	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-18.72	-41.26	-24.40228148	5.68	0
-14.9	-19.19	-41.72	-24.32965671	5.14	0
-14.8	-19.71	-42.25	-24.25654288	4.55	0
-14.7	-20.29	-42.83	-24.18293337	3.89	0
-14.6	-20.94	-43.47	-24.10882139	3.17	0
-14.5	-21.63	-44.16	-24.03420006	2.40	0
-14.4	-22.36	-44.89	-23.9590623	1.60	0
-14.3	-23.10	-45.63	-23.88340094	0.78	0
-14.2	-23.79	-46.33	-23.80720861	0.01	0
-14.1	-24.36	-46.90	-23.73047782	-0.63	0
-14.0	-24.72	-47.26	-23.65320089	-1.07	0
-13.9	-24.79	-47.32	-23.57537001	-1.21	0
-13.8	-24.54	-47.08	-23.49697716	-1.05	0
-13.7	-24.04	-46.57	-23.41801418	-0.62	0
-13.6	-23.36	-45.90	-23.33847271	-0.02	0
-13.5	-22.60	-45.14	-23.25834421	0.66	0
-13.4	-21.83	-44.36	-23.17761996	1.35	0
-13.3	-21.09	-43.62	-23.09629102	2.01	0
-13.2	-20.39	-42.93	-23.01434828	2.62	0
-13.1	-19.76	-42.30	-22.93178239	3.17	0
-13.0	-19.20	-41.74	-22.84858381	3.65	0
-12.9	-18.71	-41.25	-22.76474276	4.05	0
-12.8	-18.29	-40.83	-22.68024924	4.39	0
-12.7	-17.94	-40.47	-22.59509302	4.66	0
-12.6	-17.66	-40.19	-22.50926363	4.85	0
-12.5	-17.44	-39.97	-22.42275033	4.98	0
-12.4	-17.29	-39.82	-22.33554213	5.05	0
-12.3	-17.20	-39.74	-22.24762779	5.04	0
-12.2	-17.19	-39.72	-22.15899577	4.97	0
-12.1	-17.24	-39.77	-22.06963426	4.83	0
-12.0	-17.36	-39.90	-21.97953115	4.62	0
-11.9	-17.55	-40.09	-21.88867403	4.33	0
-11.8	-17.82	-40.36	-21.79705018	3.97	0
-11.7	-18.17	-40.71	-21.70464654	3.53	0
-11.6	-18.60	-41.13	-21.61144973	3.01	0
-11.5	-19.10	-41.64	-21.51744601	2.42	0
-11.4	-19.68	-42.21	-21.42262128	1.74	0
-11.3	-20.32	-42.85	-21.32696109	1.01	0
-11.2	-20.98	-43.51	-21.23045057	0.25	0
-11.1	-21.60	-44.14	-21.13307447	-0.47	0
-11.0	-22.10	-44.63	-21.03481713	-1.06	0
-10.9	-22.33	-44.86	-20.93566245	-1.39	0

-10.8	-22.21	-44.74	-20.83559389	-1.37	0
-10.7	-21.72	-44.25	-20.73459444	-0.98	0
-10.6	-20.93	-43.47	-20.63264663	-0.30	0
-10.5	-19.98	-42.52	-20.52973248	0.54	0
-10.4	-18.98	-41.51	-20.42583348	1.45	0
-10.3	-17.98	-40.51	-20.32093062	2.34	0
-10.2	-17.03	-39.56	-20.21500429	3.19	0
-10.1	-16.15	-38.68	-20.10803434	3.96	0
-10.0	-15.34	-37.87	-20	4.66	0
-9.9	-14.60	-37.14	-19.89087986	5.29	0
-9.8	-13.94	-36.48	-19.78065189	5.84	0
-9.7	-13.35	-35.88	-19.66929336	6.32	0
-9.6	-12.82	-35.35	-19.55678083	6.74	0
-9.5	-12.35	-34.88	-19.44309013	7.10	0
-9.4	-11.93	-34.46	-19.32819634	7.40	0
-9.3	-11.56	-34.10	-19.21207371	7.65	0
-9.2	-11.24	-33.78	-19.09469568	7.85	0
-9.1	-10.97	-33.50	-18.97603481	8.01	0
-9.0	-10.73	-33.26	-18.85606274	8.13	0
-8.9	-10.53	-33.06	-18.73475017	8.21	0
-8.8	-10.35	-32.89	-18.6120668	8.26	0
-8.7	-10.21	-32.74	-18.48798132	8.28	0
-8.6	-10.08	-32.61	-18.36246128	8.28	0
-8.5	-9.97	-32.50	-18.23547314	8.27	0
-8.4	-9.87	-32.40	-18.10698215	8.24	0
-8.3	-9.78	-32.31	-17.97695231	8.20	0
-8.2	-9.69	-32.23	-17.84534631	8.15	0
-8.1	-9.61	-32.14	-17.71212547	8.10	0
-8.0	-9.53	-32.06	-17.57724967	8.05	0
-7.9	-9.44	-31.97	-17.44067728	8.00	0
-7.8	-9.35	-31.89	-17.30236507	7.95	0
-7.7	-9.27	-31.80	-17.16226813	7.90	0
-7.6	-9.18	-31.72	-17.02033981	7.84	0
-7.5	-9.11	-31.65	-16.87653158	7.76	0
-7.4	-9.05	-31.59	-16.73079299	7.68	0
-7.3	-9.02	-31.55	-16.5830715	7.57	0
-7.2	-9.01	-31.54	-16.43331241	7.43	0
-7.1	-9.03	-31.57	-16.28145872	7.25	0
-7.0	-9.10	-31.64	-16.127451	7.03	0
-6.9	-9.22	-31.76	-15.97122727	6.75	0
-6.8	-9.40	-31.94	-15.81272282	6.41	0
-6.7	-9.66	-32.19	-15.65187007	6.00	0
-6.6	-9.99	-32.52	-15.48859839	5.50	0
-6.5	-10.40	-32.94	-15.32283392	4.92	0
-6.4	-10.90	-33.44	-15.15449935	4.25	0
-6.3	-11.48	-34.02	-14.98351374	3.50	0
-6.2	-12.10	-34.64	-14.80979224	2.71	0
-6.1	-12.69	-35.22	-14.63324588	1.95	0
-6.0	-13.08	-35.61	-14.45378126	1.37	0
-5.9	-13.07	-35.61	-14.27130029	1.20	0

-5.8	-12.52	-35.06	-14.08569984	1.56	0
-5.7	-11.47	-34.00	-13.89687139	2.43	0
-5.6	-10.10	-32.63	-13.70470068	3.61	0
-5.5	-8.61	-31.14	-13.50906724	4.90	0
-5.4	-7.12	-29.65	-13.309844	6.19	0
-5.3	-5.69	-28.22	-13.10689674	7.42	0
-5.2	-4.35	-26.88	-12.90008359	8.55	0
-5.1	-3.10	-25.63	-12.6892544	9.59	0
-5.0	-1.94	-24.48	-12.47425011	10.53	0
-4.9	-0.86	-23.40	-12.254902	11.39	0
-4.8	0.13	-22.40	-12.03103093	12.17	0
-4.7	1.06	-21.47	-11.80244645	12.87	0
-4.6	1.93	-20.61	-11.56894579	13.50	0
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-3.9	6.53	-16.00	-9.776615176	16.31	0
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-3.4	8.61	-13.92	-8.286972926	16.90	0
-3.3	8.93	-13.61	-7.962848497	16.89	0
-3.2	9.21	-13.32	-7.628749458	16.84	0
-3.1	9.46	-13.07	-7.284042346	16.75	0
-3.0	9.68	-12.85	-6.928031368	16.61	0
-2.9	9.87	-12.66	-6.559949947	16.43	0
-2.8	10.03	-12.50	-6.178950784	16.21	0
-2.7	10.16	-12.37	-5.784094104	15.95	0
-2.6	10.26	-12.27	-5.374333699	15.64	0
-2.5	10.33	-12.20	-4.948500217	15.28	0
-2.4	10.37	-12.17	-4.505281043	14.87	0
-2.3	10.37	-12.16	-4.0431959	14.42	0
-2.2	10.34	-12.19	-3.560567021	13.91	0
-2.1	10.28	-12.25	-3.055482368	13.34	0
-2.0	10.19	-12.35	-2.525749892	12.71	0
-1.9	10.06	-12.48	-1.968840024	12.02	0
-1.8	9.89	-12.65	-1.381812628	11.27	0
-1.7	9.68	-12.86	-0.761223034	10.44	0
-1.6	9.43	-13.11	-0.102999566	9.53	0
-1.5	9.13	-13.40	0.597718524	8.53	0
-1.4	8.78	-13.75			
-1.3	8.39	-14.15			
-1.2	7.93	-14.61			
-1.1	7.41	-15.13			
-1.0	6.81	-15.72			
-0.9	6.13	-16.40			

-0.8	5.35	-17.19			
-0.7	4.45	-18.09			
-0.6	3.40	-19.13			
-0.5	2.17	-20.37			
-0.4	0.68	-21.85			
-0.3	-1.16	-23.69			
-0.2	-3.54	-26.08			
-0.1	-6.89	-29.42			
0.0	-12.46	-34.99			
0.1	-31.47	-54.01			
0.2	-14.32	-36.86			
0.3	-7.84	-30.38			
0.4	-4.21	-26.74			
0.5	-1.69	-24.22			
0.6	0.23	-22.31			
0.7	1.76	-20.78			
0.8	3.02	-19.52			
0.9	4.08	-18.45			
1.0	4.99	-17.54			
1.1	5.77	-16.76			
1.2	6.45	-16.08			
1.3	7.04	-15.49			
1.4	7.56	-14.98			
1.5	8.01	-14.53	0.597718524	7.41	0
1.6	8.39	-14.14	-0.102999566	8.50	0
1.7	8.72	-13.81	-0.761223034	9.49	0
1.8	9.01	-13.53	-1.381812628	10.39	0
1.9	9.24	-13.29	-1.968840024	11.21	0
2.0	9.43	-13.10	-2.525749892	11.96	0
2.1	9.59	-12.95	-3.055482368	12.64	0
2.2	9.70	-12.83	-3.560567021	13.26	0
2.3	9.78	-12.76	-4.0431959	13.82	0
2.4	9.82	-12.72	-4.505281043	14.32	0
2.5	9.82	-12.71	-4.948500217	14.77	0
2.6	9.80	-12.74	-5.374333699	15.17	0
2.7	9.74	-12.79	-5.784094104	15.52	0
2.8	9.65	-12.88	-6.178950784	15.83	0
2.9	9.53	-13.01	-6.559949947	16.09	0
3.0	9.38	-13.16	-6.928031368	16.31	0
3.1	9.19	-13.34	-7.284042346	16.48	0
3.2	8.98	-13.55	-7.628749458	16.61	0
3.3	8.74	-13.80	-7.962848497	16.70	0
3.4	8.47	-14.07	-8.286972926	16.75	0
3.5	8.16	-14.37	-8.601701109	16.76	0
3.6	7.83	-14.71	-8.907562519	16.73	0
3.7	7.46	-15.07	-9.205043102	16.67	0
3.8	7.06	-15.47	-9.494589915	16.56	0
3.9	6.63	-15.90	-9.776615176	16.41	0
4.0	6.17	-16.37	-10.05149978	16.22	0
4.1	5.67	-16.87	-10.31959642	15.99	0

4.2	5.13	-17.40	-10.58123226	15.71	0
4.3	4.56	-17.98	-10.83671139	15.40	0
4.4	3.95	-18.59	-11.08631691	15.03	0
4.5	3.30	-19.24	-11.33031284	14.63	0
4.6	2.60	-19.93	-11.56894579	14.17	0
4.7	1.86	-20.67	-11.80244645	13.67	0
4.8	1.08	-21.46	-12.03103093	13.11	0
4.9	0.24	-22.29	-12.254902	12.49	0
5.0	-0.65	-23.19	-12.47425011	11.82	0
5.1	-1.60	-24.13	-12.6892544	11.09	0
5.2	-2.61	-25.14	-12.90008359	10.29	0
5.3	-3.68	-26.21	-13.10689674	9.43	0
5.4	-4.81	-27.35	-13.309844	8.50	0
5.5	-6.01	-28.54	-13.50906724	7.50	0
5.6	-7.26	-29.79	-13.70470068	6.45	0
5.7	-8.53	-31.06	-13.89687139	5.37	0
5.8	-9.78	-32.32	-14.08569984	4.30	0
5.9	-10.94	-33.47	-14.27130029	3.33	0
6.0	-11.88	-34.42	-14.45378126	2.57	0
6.1	-12.51	-35.05	-14.63324588	2.12	0
6.2	-12.77	-35.30	-14.80979224	2.04	0
6.3	-12.69	-35.22	-14.98351374	2.30	0
6.4	-12.38	-34.91	-15.15449935	2.78	0
6.5	-11.95	-34.48	-15.32283392	3.38	0
6.6	-11.48	-34.01	-15.48859839	4.01	0
6.7	-11.03	-33.56	-15.65187007	4.63	0
6.8	-10.61	-33.15	-15.81272282	5.20	0
6.9	-10.25	-32.78	-15.97122727	5.72	0
7.0	-9.93	-32.47	-16.127451	6.19	0
7.1	-9.67	-32.21	-16.28145872	6.61	0
7.2	-9.46	-31.99	-16.43331241	6.98	0
7.3	-9.29	-31.82	-16.5830715	7.30	0
7.4	-9.15	-31.68	-16.73079299	7.58	0
7.5	-9.05	-31.58	-16.87653158	7.83	0
7.6	-8.97	-31.50	-17.02033981	8.05	0
7.7	-8.92	-31.45	-17.16226813	8.24	0
7.8	-8.89	-31.43	-17.30236507	8.41	0
7.9	-8.88	-31.42	-17.44067728	8.56	0
8.0	-8.89	-31.42	-17.57724967	8.69	0
8.1	-8.91	-31.45	-17.71212547	8.80	0
8.2	-8.96	-31.49	-17.84534631	8.89	0
8.3	-9.01	-31.55	-17.97695231	8.96	0
8.4	-9.09	-31.62	-18.10698215	9.02	0
8.5	-9.18	-31.72	-18.23547314	9.05	0
8.6	-9.29	-31.83	-18.36246128	9.07	0
8.7	-9.43	-31.96	-18.48798132	9.06	0
8.8	-9.59	-32.12	-18.6120668	9.02	0
8.9	-9.77	-32.31	-18.73475017	8.96	0
9.0	-9.99	-32.52	-18.85606274	8.87	0
9.1	-10.23	-32.77	-18.97603481	8.74	0

9.2	-10.52	-33.05	-19.09469568	8.58	0
9.3	-10.84	-33.37	-19.21207371	8.37	0
9.4	-11.20	-33.73	-19.32819634	8.13	0
9.5	-11.61	-34.14	-19.44309013	7.83	0
9.6	-12.07	-34.60	-19.55678083	7.49	0
9.7	-12.58	-35.11	-19.66929336	7.09	0
9.8	-13.15	-35.69	-19.78065189	6.63	0
9.9	-13.79	-36.32	-19.89087986	6.10	0
10.0	-14.50	-37.03	-20	5.50	0
10.1	-15.28	-37.82	-20.10803434	4.82	0
10.2	-16.15	-38.69	-20.21500429	4.06	0
10.3	-17.11	-39.64	-20.32093062	3.21	0
10.4	-18.15	-40.69	-20.42583348	2.27	0
10.5	-19.28	-41.82	-20.52973248	1.24	0
10.6	-20.47	-43.01	-20.63264663	0.16	0
10.7	-21.67	-44.20	-20.73459444	-0.93	0
10.8	-22.75	-45.29	-20.83559389	-1.92	0
10.9	-23.56	-46.09	-20.93566245	-2.62	0
11.0	-23.92	-46.46	-21.03481713	-2.89	0
11.1	-23.80	-46.34	-21.13307447	-2.67	0
11.2	-23.30	-45.84	-21.23045057	-2.07	0
11.3	-22.61	-45.15	-21.32696109	-1.28	0
11.4	-21.87	-44.41	-21.42262128	-0.45	0
11.5	-21.17	-43.70	-21.51744601	0.35	0
11.6	-20.54	-43.08	-21.61144973	1.07	0
11.7	-20.02	-42.55	-21.70464654	1.69	0
11.8	-19.59	-42.12	-21.79705018	2.21	0
11.9	-19.25	-41.79	-21.88867403	2.64	0
12.0	-19.01	-41.54	-21.97953115	2.97	0
12.1	-18.85	-41.39	-22.06963426	3.22	0
12.2	-18.78	-41.31	-22.15899577	3.38	0
12.3	-18.78	-41.31	-22.24762779	3.47	0
12.4	-18.85	-41.39	-22.33554213	3.48	0
12.5	-19.00	-41.53	-22.42275033	3.42	0
12.6	-19.21	-41.74	-22.50926363	3.30	0
12.7	-19.47	-42.01	-22.59509302	3.12	0
12.8	-19.79	-42.33	-22.68024924	2.89	0
12.9	-20.15	-42.69	-22.76474276	2.61	0
13.0	-20.55	-43.09	-22.84858381	2.29	0
13.1	-20.98	-43.51	-22.93178239	1.96	0
13.2	-21.40	-43.94	-23.01434828	1.61	0
13.3	-21.81	-44.35	-23.09629102	1.28	0
13.4	-22.18	-44.71	-23.17761996	1.00	0
13.5	-22.48	-45.01	-23.25834421	0.78	0
13.6	-22.68	-45.22	-23.33847271	0.66	0
13.7	-22.78	-45.32	-23.41801418	0.64	0
13.8	-22.77	-45.30	-23.49697716	0.73	0
13.9	-22.66	-45.19	-23.57537001	0.92	0
14.0	-22.46	-44.99	-23.65320089	1.19	0
14.1	-22.20	-44.74	-23.73047782	1.53	0

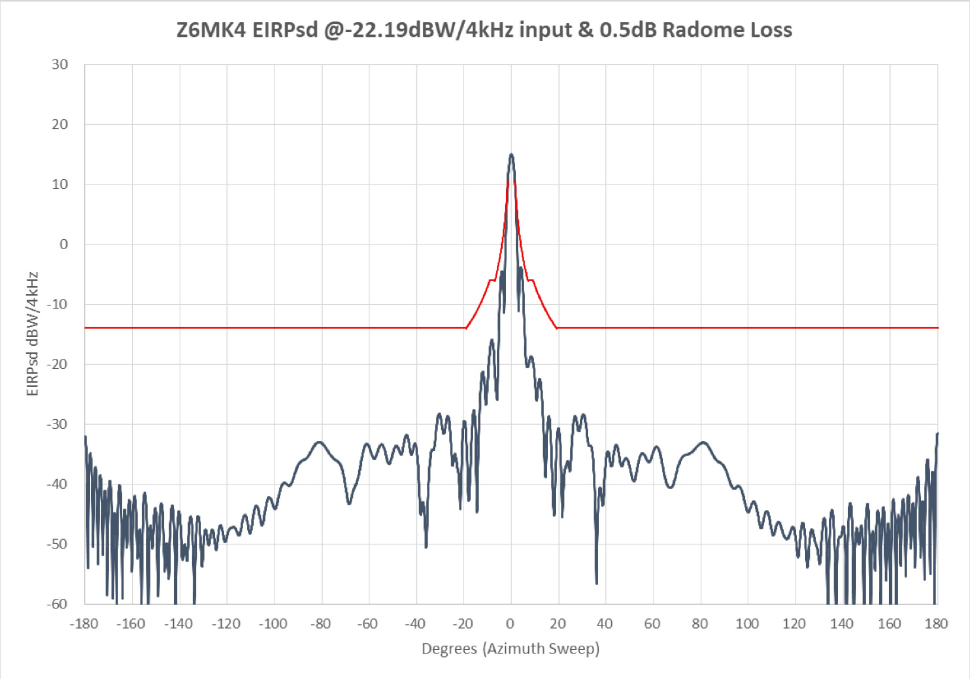
14.2	-21.91	-44.44	-23.80720861	1.90	0
14.3	-21.60	-44.13	-23.88340094	2.29	0
14.4	-21.29	-43.82	-23.9590623	2.67	0
14.5	-20.99	-43.52	-24.03420006	3.05	0
14.6	-20.71	-43.24	-24.10882139	3.40	0
14.7	-20.45	-42.99	-24.18293337	3.73	0
14.8	-20.23	-42.76	-24.25654288	4.03	0
14.9	-20.03	-42.56	-24.32965671	4.30	0
15.0	-19.85	-42.39	-24.40228148	4.55	0

KNS Z6 Ku-band

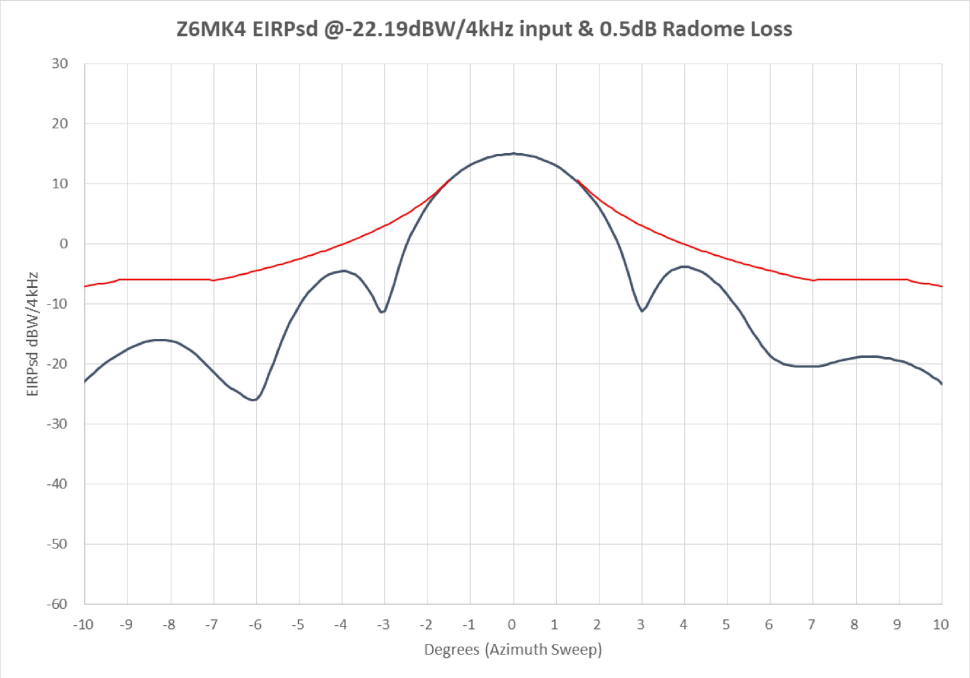
1. Maximum co-polarized EIRP density

1) 14GHz

a) At off-axis angles from ±180° range (Tangent)



b) At off-axis angles from ±10° range (Tangent)



Model	Z6MK4		Min input: (@all freq.)	-22.19
Frequency	14.00	[GHz]		
GSO arc	Tangent			
EIRPsd Input	-22.19	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	37.22			out of spec.

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-9.86	-32.05	-14	4.14	0
-179.9	-9.93	-32.12	-14	4.07	0
-179.8	-10.15	-32.35	-14	3.85	0
-179.7	-10.54	-32.73	-14	3.46	0
-179.6	-11.09	-33.28	-14	2.91	0
-179.5	-11.83	-34.02	-14	2.17	0
-179.4	-12.80	-34.99	-14	1.20	0
-179.3	-14.04	-36.23	-14	-0.04	0
-179.2	-15.63	-37.83	-14	-1.63	0
-179.1	-17.74	-39.93	-14	-3.74	0
-179.0	-20.63	-42.82	-14	-6.63	0
-178.9	-24.96	-47.15	-14	-10.96	0
-178.8	-31.80	-53.99	-14	-17.80	0
-178.7	-29.80	-51.99	-14	-15.80	0
-178.6	-23.86	-46.05	-14	-9.86	0
-178.5	-20.27	-42.46	-14	-6.27	0
-178.4	-17.87	-40.06	-14	-3.87	0
-178.3	-16.16	-38.35	-14	-2.16	0
-178.2	-14.91	-37.10	-14	-0.91	0
-178.1	-14.00	-36.19	-14	0.00	0
-178.0	-13.36	-35.55	-14	0.64	0
-177.9	-12.94	-35.13	-14	1.06	0
-177.8	-12.73	-34.92	-14	1.27	0
-177.7	-12.70	-34.89	-14	1.30	0
-177.6	-12.86	-35.05	-14	1.14	0
-177.5	-13.20	-35.39	-14	0.80	0
-177.4	-13.74	-35.93	-14	0.26	0
-177.3	-14.49	-36.68	-14	-0.49	0
-177.2	-15.49	-37.68	-14	-1.49	0
-177.1	-16.78	-38.97	-14	-2.78	0
-177.0	-18.46	-40.65	-14	-4.46	0
-176.9	-20.63	-42.82	-14	-6.63	0
-176.8	-23.45	-45.64	-14	-9.45	0
-176.7	-26.78	-48.97	-14	-12.78	0
-176.6	-28.26	-50.45	-14	-14.26	0
-176.5	-25.82	-48.01	-14	-11.82	0
-176.4	-22.79	-44.98	-14	-8.79	0
-176.3	-20.43	-42.62	-14	-6.43	0
-176.2	-18.66	-40.85	-14	-4.66	0
-176.1	-17.35	-39.54	-14	-3.35	0
-176.0	-16.38	-38.57	-14	-2.38	0
-175.9	-15.70	-37.89	-14	-1.70	0

-175.8	-15.25	-37.45	-14	-1.25	0
-175.7	-15.03	-37.22	-14	-1.03	0
-175.6	-15.00	-37.19	-14	-1.00	0
-175.5	-15.17	-37.36	-14	-1.17	0
-175.4	-15.54	-37.73	-14	-1.54	0
-175.3	-16.12	-38.31	-14	-2.12	0
-175.2	-16.95	-39.14	-14	-2.95	0
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-80.8	-10.83	-33.02	-14	3.17	0
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13.6	-8.80	-30.99	-10.33847271	1.54	0
13.7	-9.77	-31.96	-10.41801418	0.65	0
13.8	-10.83	-33.02	-10.49697716	-0.33	0
13.9	-11.97	-34.16	-10.57537001	-1.40	0
14.0	-13.21	-35.40	-10.65320089	-2.56	0
14.1	-14.50	-36.69	-10.73047782	-3.77	0

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14.5	-15.81	-38.00	-11.03420006	-4.78	0
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14.7	-13.16	-35.35	-11.18293337	-1.98	0
14.8	-11.81	-34.00	-11.25654288	-0.55	0
14.9	-10.59	-32.78	-11.32965671	0.74	0
15.0	-9.52	-31.71	-11.40228148	1.88	0
15.1	-8.50	-30.69	-11.47442368	2.97	0
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15.4	-7.17	-29.36	-11.68801802	4.52	0
15.5	-6.86	-29.05	-11.75829245	4.90	0
15.6	-6.65	-28.84	-11.82811496	5.18	0
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15.8	-6.53	-28.72	-11.96642717	5.43	0
15.9	-6.62	-28.81	-12.03492811	5.42	0
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16.7	-10.73	-32.93	-12.56791178	1.83	0
16.8	-11.68	-33.87	-12.63273204	0.96	0
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17.0	-13.79	-35.98	-12.76122303	-1.03	0
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17.3	-17.16	-39.36	-12.95115258	-4.21	0
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17.6	-19.96	-42.15	-13.1378167	-6.82	0
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17.8	-21.48	-43.67	-13.26050006	-8.22	0
17.9	-22.20	-44.39	-13.32132577	-8.88	0
18.0	-22.79	-44.98	-13.38181263	-9.41	0
18.1	-23.05	-45.24	-13.44196437	-9.60	0
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18.5	-18.60	-40.79	-13.67929321	-4.92	0
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18.8	-14.27	-36.46	-13.85394623	-0.42	0
18.9	-13.13	-35.32	-13.9115451	0.78	0
19.0	-12.13	-34.32	-13.96884002	1.84	0
19.1	-11.27	-33.47	-14.02583418	2.75	0

19.2	-10.54	-32.74	-14	3.46	0
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19.5	-9.05	-31.24	-14	4.95	0
19.6	-8.76	-30.95	-14	5.24	0
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19.8	-8.48	-30.67	-14	5.52	0
19.9	-8.48	-30.67	-14	5.52	0
20.0	-8.58	-30.77	-14	5.42	0
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20.4	-9.98	-32.17	-14	4.02	0
20.5	-10.60	-32.80	-14	3.40	0
20.6	-11.36	-33.55	-14	2.64	0
20.7	-12.25	-34.44	-14	1.75	0
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20.9	-14.52	-36.72	-14	-0.52	0
21.0	-15.95	-38.14	-14	-1.95	0
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21.2	-19.43	-41.62	-14	-5.43	0
21.3	-21.33	-43.52	-14	-7.33	0
21.4	-22.86	-45.05	-14	-8.86	0
21.5	-23.34	-45.53	-14	-9.34	0
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21.7	-21.36	-43.55	-14	-7.36	0
21.8	-20.04	-42.23	-14	-6.04	0
21.9	-18.89	-41.08	-14	-4.89	0
22.0	-17.95	-40.14	-14	-3.95	0
22.1	-17.19	-39.39	-14	-3.19	0
22.2	-16.60	-38.79	-14	-2.60	0
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22.4	-15.79	-37.99	-14	-1.79	0
22.5	-15.53	-37.72	-14	-1.53	0
22.6	-15.33	-37.52	-14	-1.33	0
22.7	-15.17	-37.36	-14	-1.17	0
22.8	-15.03	-37.22	-14	-1.03	0
22.9	-14.91	-37.10	-14	-0.91	0
23.0	-14.79	-36.98	-14	-0.79	0
23.1	-14.66	-36.85	-14	-0.66	0
23.2	-14.53	-36.72	-14	-0.53	0
23.3	-14.41	-36.60	-14	-0.41	0
23.4	-14.28	-36.48	-14	-0.28	0
23.5	-14.18	-36.37	-14	-0.18	0
23.6	-14.10	-36.29	-14	-0.10	0
23.7	-14.06	-36.25	-14	-0.06	0
23.8	-14.07	-36.26	-14	-0.07	0
23.9	-14.12	-36.31	-14	-0.12	0
24.0	-14.23	-36.42	-14	-0.23	0
24.1	-14.39	-36.58	-14	-0.39	0

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24.3	-14.85	-37.04	-14	-0.85	0
24.4	-15.11	-37.30	-14	-1.11	0
24.5	-15.36	-37.55	-14	-1.36	0
24.6	-15.54	-37.73	-14	-1.54	0
24.7	-15.61	-37.80	-14	-1.61	0
24.8	-15.51	-37.70	-14	-1.51	0
24.9	-15.22	-37.41	-14	-1.22	0
25.0	-14.74	-36.94	-14	-0.74	0
25.1	-14.12	-36.31	-14	-0.12	0
25.2	-13.41	-35.60	-14	0.59	0
25.3	-12.65	-34.84	-14	1.35	0
25.4	-11.88	-34.07	-14	2.12	0
25.5	-11.14	-33.34	-14	2.86	0
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25.8	-9.22	-31.42	-14	4.78	0
25.9	-8.70	-30.89	-14	5.30	0
26.0	-8.24	-30.43	-14	5.76	0
26.1	-7.84	-30.03	-14	6.16	0
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26.8	-6.53	-28.72	-14	7.47	0
26.9	-6.53	-28.72	-14	7.47	0
27.0	-6.57	-28.76	-14	7.43	0
27.1	-6.65	-28.84	-14	7.35	0
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27.5	-7.27	-29.47	-14	6.73	0
27.6	-7.49	-29.68	-14	6.51	0
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28.9	-8.61	-30.80	-14	5.39	0
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29.2	-7.97	-30.16	-14	6.03	0
29.3	-7.74	-29.93	-14	6.26	0
29.4	-7.50	-29.69	-14	6.50	0
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29.6	-7.06	-29.25	-14	6.94	0
29.7	-6.86	-29.05	-14	7.14	0
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31.8	-9.13	-31.32	-14	4.87	0
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32.5	-11.18	-33.37	-14	2.82	0
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32.7	-11.39	-33.58	-14	2.61	0
32.8	-11.43	-33.62	-14	2.57	0
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33.0	-11.43	-33.62	-14	2.57	0
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33.3	-11.37	-33.56	-14	2.63	0
33.4	-11.37	-33.56	-14	2.63	0
33.5	-11.40	-33.59	-14	2.60	0
33.6	-11.45	-33.64	-14	2.55	0
33.7	-11.54	-33.73	-14	2.46	0
33.8	-11.66	-33.85	-14	2.34	0
33.9	-11.82	-34.01	-14	2.18	0
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34.1	-12.27	-34.46	-14	1.73	0

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34.7	-14.86	-37.05	-14	-0.86	0
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35.1	-18.08	-40.27	-14	-4.08	0
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36.6	-21.68	-43.87	-14	-7.68	0
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38.5	-21.36	-43.55	-14	-7.36	0
38.6	-21.36	-43.55	-14	-7.36	0
38.7	-21.15	-43.34	-14	-7.15	0
38.8	-20.72	-42.91	-14	-6.72	0
38.9	-20.12	-42.31	-14	-6.12	0
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39.5	-15.82	-38.01	-14	-1.82	0
39.6	-15.23	-37.42	-14	-1.23	0
39.7	-14.70	-36.89	-14	-0.70	0
39.8	-14.23	-36.42	-14	-0.23	0
39.9	-13.81	-36.00	-14	0.19	0
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40.3	-12.67	-34.86	-14	1.33	0
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40.6	-12.33	-34.52	-14	1.67	0
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40.8	-12.33	-34.52	-14	1.67	0
40.9	-12.39	-34.58	-14	1.61	0
41.0	-12.49	-34.68	-14	1.51	0
41.1	-12.63	-34.82	-14	1.37	0
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41.4	-13.23	-35.42	-14	0.77	0
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41.6	-13.73	-35.92	-14	0.27	0
41.7	-13.99	-36.18	-14	0.01	0
41.8	-14.24	-36.43	-14	-0.24	0
41.9	-14.46	-36.65	-14	-0.46	0
42.0	-14.65	-36.84	-14	-0.65	0
42.1	-14.79	-36.98	-14	-0.79	0
42.2	-14.86	-37.06	-14	-0.86	0
42.3	-14.87	-37.06	-14	-0.87	0
42.4	-14.81	-37.00	-14	-0.81	0
42.5	-14.68	-36.87	-14	-0.68	0
42.6	-14.48	-36.68	-14	-0.48	0
42.7	-14.25	-36.44	-14	-0.25	0
42.8	-13.97	-36.16	-14	0.03	0
42.9	-13.68	-35.87	-14	0.32	0
43.0	-13.38	-35.57	-14	0.62	0
43.1	-13.08	-35.27	-14	0.92	0
43.2	-12.79	-34.98	-14	1.21	0
43.3	-12.51	-34.70	-14	1.49	0
43.4	-12.26	-34.45	-14	1.74	0
43.5	-12.03	-34.22	-14	1.97	0
43.6	-11.83	-34.02	-14	2.17	0
43.7	-11.65	-33.84	-14	2.35	0
43.8	-11.50	-33.70	-14	2.50	0
43.9	-11.39	-33.58	-14	2.61	0
44.0	-11.30	-33.49	-14	2.70	0
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44.4	-11.25	-33.44	-14	2.75	0
44.5	-11.31	-33.50	-14	2.69	0
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44.8	-11.64	-33.83	-14	2.36	0
44.9	-11.80	-33.99	-14	2.20	0
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45.6	-13.38	-35.57	-14	0.62	0
45.7	-13.63	-35.82	-14	0.37	0
45.8	-13.87	-36.06	-14	0.13	0
45.9	-14.09	-36.29	-14	-0.09	0
46.0	-14.30	-36.49	-14	-0.30	0
46.1	-14.47	-36.67	-14	-0.47	0
46.2	-14.62	-36.81	-14	-0.62	0
46.3	-14.73	-36.92	-14	-0.73	0
46.4	-14.80	-36.99	-14	-0.80	0
46.5	-14.83	-37.03	-14	-0.83	0
46.6	-14.83	-37.02	-14	-0.83	0
46.7	-14.80	-36.99	-14	-0.80	0
46.8	-14.73	-36.93	-14	-0.73	0
46.9	-14.65	-36.84	-14	-0.65	0
47.0	-14.54	-36.74	-14	-0.54	0
47.1	-14.43	-36.62	-14	-0.43	0
47.2	-14.31	-36.50	-14	-0.31	0
47.3	-14.18	-36.38	-14	-0.18	0
47.4	-14.06	-36.25	-14	-0.06	0
47.5	-13.95	-36.14	-14	0.05	0
47.6	-13.84	-36.03	-14	0.16	0
47.7	-13.74	-35.93	-14	0.26	0
47.8	-13.66	-35.85	-14	0.34	0
47.9	-13.58	-35.78	-14	0.42	0
48.0	-13.53	-35.72	-14	0.47	0
48.1	-13.48	-35.67	-14	0.52	0
48.2	-13.45	-35.65	-14	0.55	0
48.3	-13.44	-35.63	-14	0.56	0
48.4	-13.44	-35.63	-14	0.56	0
48.5	-13.46	-35.65	-14	0.54	0
48.6	-13.49	-35.68	-14	0.51	0
48.7	-13.53	-35.72	-14	0.47	0
48.8	-13.59	-35.78	-14	0.41	0
48.9	-13.66	-35.85	-14	0.34	0
49.0	-13.74	-35.93	-14	0.26	0
49.1	-13.83	-36.02	-14	0.17	0

49.2	-13.94	-36.13	-14	0.06	0
49.3	-14.05	-36.24	-14	-0.05	0
49.4	-14.17	-36.36	-14	-0.17	0
49.5	-14.30	-36.49	-14	-0.30	0
49.6	-14.44	-36.63	-14	-0.44	0
49.7	-14.59	-36.78	-14	-0.59	0
49.8	-14.74	-36.93	-14	-0.74	0
49.9	-14.90	-37.09	-14	-0.90	0
50.0	-15.06	-37.25	-14	-1.06	0
50.1	-15.23	-37.42	-14	-1.23	0
50.2	-15.40	-37.59	-14	-1.40	0
50.3	-15.57	-37.77	-14	-1.57	0
50.4	-15.75	-37.94	-14	-1.75	0
50.5	-15.92	-38.11	-14	-1.92	0
50.6	-16.10	-38.29	-14	-2.10	0
50.7	-16.27	-38.46	-14	-2.27	0
50.8	-16.43	-38.63	-14	-2.43	0
50.9	-16.59	-38.79	-14	-2.59	0
51.0	-16.75	-38.94	-14	-2.75	0
51.1	-16.89	-39.08	-14	-2.89	0
51.2	-17.01	-39.20	-14	-3.01	0
51.3	-17.12	-39.31	-14	-3.12	0
51.4	-17.21	-39.40	-14	-3.21	0
51.5	-17.28	-39.47	-14	-3.28	0
51.6	-17.33	-39.52	-14	-3.33	0
51.7	-17.34	-39.54	-14	-3.34	0
51.8	-17.34	-39.53	-14	-3.34	0
51.9	-17.30	-39.49	-14	-3.30	0
52.0	-17.23	-39.42	-14	-3.23	0
52.1	-17.14	-39.33	-14	-3.14	0
52.2	-17.02	-39.21	-14	-3.02	0
52.3	-16.88	-39.07	-14	-2.88	0
52.4	-16.71	-38.91	-14	-2.71	0
52.5	-16.53	-38.73	-14	-2.53	0
52.6	-16.34	-38.53	-14	-2.34	0
52.7	-16.14	-38.33	-14	-2.14	0
52.8	-15.92	-38.11	-14	-1.92	0
52.9	-15.71	-37.90	-14	-1.71	0
53.0	-15.49	-37.68	-14	-1.49	0
53.1	-15.27	-37.46	-14	-1.27	0
53.2	-15.05	-37.24	-14	-1.05	0
53.3	-14.84	-37.03	-14	-0.84	0
53.4	-14.64	-36.83	-14	-0.64	0
53.5	-14.44	-36.63	-14	-0.44	0
53.6	-14.25	-36.44	-14	-0.25	0
53.7	-14.07	-36.26	-14	-0.07	0
53.8	-13.90	-36.09	-14	0.10	0
53.9	-13.74	-35.93	-14	0.26	0
54.0	-13.59	-35.78	-14	0.41	0
54.1	-13.45	-35.64	-14	0.55	0

54.2	-13.33	-35.52	-14	0.67	0
54.3	-13.21	-35.40	-14	0.79	0
54.4	-13.11	-35.30	-14	0.89	0
54.5	-13.02	-35.21	-14	0.98	0
54.6	-12.93	-35.12	-14	1.07	0
54.7	-12.86	-35.05	-14	1.14	0
54.8	-12.80	-35.00	-14	1.20	0
54.9	-12.76	-34.95	-14	1.24	0
55.0	-12.72	-34.91	-14	1.28	0
55.1	-12.69	-34.88	-14	1.31	0
55.2	-12.67	-34.86	-14	1.33	0
55.3	-12.66	-34.85	-14	1.34	0
55.4	-12.66	-34.85	-14	1.34	0
55.5	-12.67	-34.86	-14	1.33	0
55.6	-12.69	-34.88	-14	1.31	0
55.7	-12.72	-34.91	-14	1.28	0
55.8	-12.75	-34.94	-14	1.25	0
55.9	-12.80	-34.99	-14	1.20	0
56.0	-12.84	-35.04	-14	1.16	0
56.1	-12.90	-35.09	-14	1.10	0
56.2	-12.96	-35.15	-14	1.04	0
56.3	-13.03	-35.22	-14	0.97	0
56.4	-13.10	-35.29	-14	0.90	0
56.5	-13.18	-35.37	-14	0.82	0
56.6	-13.26	-35.45	-14	0.74	0
56.7	-13.34	-35.53	-14	0.66	0
56.8	-13.42	-35.61	-14	0.58	0
56.9	-13.51	-35.70	-14	0.49	0
57.0	-13.59	-35.78	-14	0.41	0
57.1	-13.67	-35.86	-14	0.33	0
57.2	-13.75	-35.94	-14	0.25	0
57.3	-13.82	-36.01	-14	0.18	0
57.4	-13.89	-36.08	-14	0.11	0
57.5	-13.95	-36.14	-14	0.05	0
57.6	-14.01	-36.20	-14	-0.01	0
57.7	-14.05	-36.24	-14	-0.05	0
57.8	-14.08	-36.27	-14	-0.08	0
57.9	-14.10	-36.30	-14	-0.10	0
58.0	-14.11	-36.30	-14	-0.11	0
58.1	-14.11	-36.30	-14	-0.11	0
58.2	-14.09	-36.28	-14	-0.09	0
58.3	-14.06	-36.25	-14	-0.06	0
58.4	-14.01	-36.21	-14	-0.01	0
58.5	-13.96	-36.15	-14	0.04	0
58.6	-13.89	-36.08	-14	0.11	0
58.7	-13.80	-36.00	-14	0.20	0
58.8	-13.71	-35.90	-14	0.29	0
58.9	-13.61	-35.80	-14	0.39	0
59.0	-13.50	-35.69	-14	0.50	0
59.1	-13.39	-35.58	-14	0.61	0

59.2	-13.27	-35.46	-14	0.73	0
59.3	-13.15	-35.34	-14	0.85	0
59.4	-13.02	-35.21	-14	0.98	0
59.5	-12.90	-35.09	-14	1.10	0
59.6	-12.77	-34.96	-14	1.23	0
59.7	-12.65	-34.84	-14	1.35	0
59.8	-12.53	-34.72	-14	1.47	0
59.9	-12.41	-34.60	-14	1.59	0
60.0	-12.30	-34.49	-14	1.70	0
60.1	-12.19	-34.39	-14	1.81	0
60.2	-12.10	-34.29	-14	1.90	0
60.3	-12.00	-34.19	-14	2.00	0
60.4	-11.92	-34.11	-14	2.08	0
60.5	-11.84	-34.03	-14	2.16	0
60.6	-11.77	-33.96	-14	2.23	0
60.7	-11.71	-33.91	-14	2.29	0
60.8	-11.66	-33.86	-14	2.34	0
60.9	-11.62	-33.82	-14	2.38	0
61.0	-11.59	-33.78	-14	2.41	0
61.1	-11.57	-33.76	-14	2.43	0
61.2	-11.56	-33.75	-14	2.44	0
61.3	-11.56	-33.75	-14	2.44	0
61.4	-11.57	-33.76	-14	2.43	0
61.5	-11.59	-33.78	-14	2.41	0
61.6	-11.62	-33.81	-14	2.38	0
61.7	-11.66	-33.85	-14	2.34	0
61.8	-11.71	-33.90	-14	2.29	0
61.9	-11.77	-33.96	-14	2.23	0
62.0	-11.84	-34.03	-14	2.16	0
62.1	-11.92	-34.11	-14	2.08	0
62.2	-12.01	-34.21	-14	1.99	0
62.3	-12.12	-34.31	-14	1.88	0
62.4	-12.23	-34.42	-14	1.77	0
62.5	-12.35	-34.54	-14	1.65	0
62.6	-12.48	-34.67	-14	1.52	0
62.7	-12.62	-34.81	-14	1.38	0
62.8	-12.77	-34.96	-14	1.23	0
62.9	-12.92	-35.11	-14	1.08	0
63.0	-13.09	-35.28	-14	0.91	0
63.1	-13.26	-35.45	-14	0.74	0
63.2	-13.44	-35.63	-14	0.56	0
63.3	-13.63	-35.82	-14	0.37	0
63.4	-13.82	-36.01	-14	0.18	0
63.5	-14.02	-36.21	-14	-0.02	0
63.6	-14.22	-36.42	-14	-0.22	0
63.7	-14.43	-36.62	-14	-0.43	0
63.8	-14.64	-36.83	-14	-0.64	0
63.9	-14.86	-37.05	-14	-0.86	0
64.0	-15.07	-37.26	-14	-1.07	0
64.1	-15.29	-37.48	-14	-1.29	0

64.2	-15.50	-37.69	-14	-1.50	0
64.3	-15.71	-37.90	-14	-1.71	0
64.4	-15.92	-38.11	-14	-1.92	0
64.5	-16.12	-38.31	-14	-2.12	0
64.6	-16.32	-38.51	-14	-2.32	0
64.7	-16.51	-38.70	-14	-2.51	0
64.8	-16.70	-38.89	-14	-2.70	0
64.9	-16.87	-39.06	-14	-2.87	0
65.0	-17.04	-39.23	-14	-3.04	0
65.1	-17.19	-39.38	-14	-3.19	0
65.2	-17.34	-39.53	-14	-3.34	0
65.3	-17.47	-39.66	-14	-3.47	0
65.4	-17.60	-39.79	-14	-3.60	0
65.5	-17.71	-39.90	-14	-3.71	0
65.6	-17.81	-40.00	-14	-3.81	0
65.7	-17.91	-40.10	-14	-3.91	0
65.8	-17.99	-40.18	-14	-3.99	0
65.9	-18.06	-40.25	-14	-4.06	0
66.0	-18.13	-40.32	-14	-4.13	0
66.1	-18.19	-40.38	-14	-4.19	0
66.2	-18.24	-40.43	-14	-4.24	0
66.3	-18.28	-40.47	-14	-4.28	0
66.4	-18.32	-40.51	-14	-4.32	0
66.5	-18.35	-40.55	-14	-4.35	0
66.6	-18.38	-40.57	-14	-4.38	0
66.7	-18.40	-40.60	-14	-4.40	0
66.8	-18.42	-40.61	-14	-4.42	0
66.9	-18.43	-40.63	-14	-4.43	0
67.0	-18.44	-40.63	-14	-4.44	0
67.1	-18.44	-40.64	-14	-4.44	0
67.2	-18.44	-40.63	-14	-4.44	0
67.3	-18.43	-40.62	-14	-4.43	0
67.4	-18.42	-40.61	-14	-4.42	0
67.5	-18.39	-40.58	-14	-4.39	0
67.6	-18.36	-40.55	-14	-4.36	0
67.7	-18.32	-40.51	-14	-4.32	0
67.8	-18.28	-40.47	-14	-4.28	0
67.9	-18.22	-40.41	-14	-4.22	0
68.0	-18.15	-40.34	-14	-4.15	0
68.1	-18.08	-40.27	-14	-4.08	0
68.2	-17.99	-40.18	-14	-3.99	0
68.3	-17.90	-40.09	-14	-3.90	0
68.4	-17.80	-39.99	-14	-3.80	0
68.5	-17.68	-39.88	-14	-3.68	0
68.6	-17.56	-39.76	-14	-3.56	0
68.7	-17.44	-39.63	-14	-3.44	0
68.8	-17.30	-39.49	-14	-3.30	0
68.9	-17.16	-39.35	-14	-3.16	0
69.0	-17.01	-39.21	-14	-3.01	0
69.1	-16.86	-39.06	-14	-2.86	0

69.2	-16.71	-38.90	-14	-2.71	0
69.3	-16.55	-38.74	-14	-2.55	0
69.4	-16.39	-38.59	-14	-2.39	0
69.5	-16.24	-38.43	-14	-2.24	0
69.6	-16.08	-38.27	-14	-2.08	0
69.7	-15.92	-38.11	-14	-1.92	0
69.8	-15.76	-37.95	-14	-1.76	0
69.9	-15.61	-37.80	-14	-1.61	0
70.0	-15.45	-37.64	-14	-1.45	0
70.1	-15.30	-37.50	-14	-1.30	0
70.2	-15.16	-37.35	-14	-1.16	0
70.3	-15.02	-37.21	-14	-1.02	0
70.4	-14.88	-37.07	-14	-0.88	0
70.5	-14.75	-36.94	-14	-0.75	0
70.6	-14.62	-36.81	-14	-0.62	0
70.7	-14.50	-36.69	-14	-0.50	0
70.8	-14.38	-36.57	-14	-0.38	0
70.9	-14.27	-36.46	-14	-0.27	0
71.0	-14.16	-36.35	-14	-0.16	0
71.1	-14.06	-36.25	-14	-0.06	0
71.2	-13.96	-36.16	-14	0.04	0
71.3	-13.87	-36.06	-14	0.13	0
71.4	-13.79	-35.98	-14	0.21	0
71.5	-13.71	-35.90	-14	0.29	0
71.6	-13.63	-35.83	-14	0.37	0
71.7	-13.57	-35.76	-14	0.43	0
71.8	-13.50	-35.69	-14	0.50	0
71.9	-13.44	-35.63	-14	0.56	0
72.0	-13.39	-35.58	-14	0.61	0
72.1	-13.34	-35.53	-14	0.66	0
72.2	-13.29	-35.48	-14	0.71	0
72.3	-13.25	-35.44	-14	0.75	0
72.4	-13.21	-35.40	-14	0.79	0
72.5	-13.17	-35.36	-14	0.83	0
72.6	-13.14	-35.33	-14	0.86	0
72.7	-13.11	-35.30	-14	0.89	0
72.8	-13.09	-35.28	-14	0.91	0
72.9	-13.06	-35.25	-14	0.94	0
73.0	-13.04	-35.23	-14	0.96	0
73.1	-13.02	-35.21	-14	0.98	0
73.2	-13.00	-35.20	-14	1.00	0
73.3	-12.99	-35.18	-14	1.01	0
73.4	-12.97	-35.17	-14	1.03	0
73.5	-12.96	-35.15	-14	1.04	0
73.6	-12.95	-35.14	-14	1.05	0
73.7	-12.94	-35.13	-14	1.06	0
73.8	-12.92	-35.12	-14	1.08	0
73.9	-12.91	-35.10	-14	1.09	0
74.0	-12.90	-35.09	-14	1.10	0
74.1	-12.89	-35.08	-14	1.11	0

74.2	-12.88	-35.07	-14	1.12	0
74.3	-12.86	-35.06	-14	1.14	0
74.4	-12.85	-35.04	-14	1.15	0
74.5	-12.84	-35.03	-14	1.16	0
74.6	-12.82	-35.01	-14	1.18	0
74.7	-12.80	-35.00	-14	1.20	0
74.8	-12.79	-34.98	-14	1.21	0
74.9	-12.77	-34.96	-14	1.23	0
75.0	-12.75	-34.94	-14	1.25	0
75.1	-12.73	-34.92	-14	1.27	0
75.2	-12.70	-34.90	-14	1.30	0
75.3	-12.68	-34.87	-14	1.32	0
75.4	-12.66	-34.85	-14	1.34	0
75.5	-12.63	-34.82	-14	1.37	0
75.6	-12.60	-34.79	-14	1.40	0
75.7	-12.57	-34.76	-14	1.43	0
75.8	-12.54	-34.73	-14	1.46	0
75.9	-12.51	-34.70	-14	1.49	0
76.0	-12.48	-34.67	-14	1.52	0
76.1	-12.44	-34.64	-14	1.56	0
76.2	-12.41	-34.60	-14	1.59	0
76.3	-12.37	-34.56	-14	1.63	0
76.4	-12.34	-34.53	-14	1.66	0
76.5	-12.30	-34.49	-14	1.70	0
76.6	-12.26	-34.45	-14	1.74	0
76.7	-12.22	-34.41	-14	1.78	0
76.8	-12.18	-34.37	-14	1.82	0
76.9	-12.14	-34.33	-14	1.86	0
77.0	-12.10	-34.29	-14	1.90	0
77.1	-12.06	-34.25	-14	1.94	0
77.2	-12.02	-34.21	-14	1.98	0
77.3	-11.98	-34.17	-14	2.02	0
77.4	-11.93	-34.13	-14	2.07	0
77.5	-11.89	-34.08	-14	2.11	0
77.6	-11.85	-34.04	-14	2.15	0
77.7	-11.81	-34.00	-14	2.19	0
77.8	-11.76	-33.95	-14	2.24	0
77.9	-11.72	-33.91	-14	2.28	0
78.0	-11.68	-33.87	-14	2.32	0
78.1	-11.64	-33.83	-14	2.36	0
78.2	-11.59	-33.79	-14	2.41	0
78.3	-11.55	-33.74	-14	2.45	0
78.4	-11.51	-33.70	-14	2.49	0
78.5	-11.47	-33.66	-14	2.53	0
78.6	-11.43	-33.62	-14	2.57	0
78.7	-11.39	-33.58	-14	2.61	0
78.8	-11.35	-33.55	-14	2.65	0
78.9	-11.32	-33.51	-14	2.68	0
79.0	-11.28	-33.47	-14	2.72	0
79.1	-11.24	-33.44	-14	2.76	0

79.2	-11.21	-33.40	-14	2.79	0
79.3	-11.18	-33.37	-14	2.82	0
79.4	-11.15	-33.34	-14	2.85	0
79.5	-11.12	-33.31	-14	2.88	0
79.6	-11.09	-33.28	-14	2.91	0
79.7	-11.06	-33.25	-14	2.94	0
79.8	-11.03	-33.22	-14	2.97	0
79.9	-11.01	-33.20	-14	2.99	0
80.0	-10.99	-33.18	-14	3.01	0
80.1	-10.97	-33.16	-14	3.03	0
80.2	-10.95	-33.14	-14	3.05	0
80.3	-10.93	-33.12	-14	3.07	0
80.4	-10.92	-33.11	-14	3.08	0
80.5	-10.91	-33.10	-14	3.09	0
80.6	-10.90	-33.09	-14	3.10	0
80.7	-10.89	-33.08	-14	3.11	0
80.8	-10.89	-33.08	-14	3.11	0
80.9	-10.88	-33.08	-14	3.12	0
81.0	-10.88	-33.08	-14	3.12	0
81.1	-10.89	-33.08	-14	3.11	0
81.2	-10.89	-33.08	-14	3.11	0
81.3	-10.90	-33.09	-14	3.10	0
81.4	-10.91	-33.10	-14	3.09	0
81.5	-10.93	-33.12	-14	3.07	0
81.6	-10.94	-33.13	-14	3.06	0
81.7	-10.96	-33.15	-14	3.04	0
81.8	-10.98	-33.17	-14	3.02	0
81.9	-11.01	-33.20	-14	2.99	0
82.0	-11.04	-33.23	-14	2.96	0
82.1	-11.07	-33.26	-14	2.93	0
82.2	-11.10	-33.29	-14	2.90	0
82.3	-11.14	-33.33	-14	2.86	0
82.4	-11.17	-33.37	-14	2.83	0
82.5	-11.22	-33.41	-14	2.78	0
82.6	-11.26	-33.45	-14	2.74	0
82.7	-11.31	-33.50	-14	2.69	0
82.8	-11.36	-33.55	-14	2.64	0
82.9	-11.41	-33.60	-14	2.59	0
83.0	-11.46	-33.66	-14	2.54	0
83.1	-11.52	-33.71	-14	2.48	0
83.2	-11.58	-33.77	-14	2.42	0
83.3	-11.64	-33.83	-14	2.36	0
83.4	-11.71	-33.90	-14	2.29	0
83.5	-11.77	-33.96	-14	2.23	0
83.6	-11.84	-34.03	-14	2.16	0
83.7	-11.91	-34.10	-14	2.09	0
83.8	-11.98	-34.17	-14	2.02	0
83.9	-12.05	-34.24	-14	1.95	0
84.0	-12.12	-34.32	-14	1.88	0
84.1	-12.20	-34.39	-14	1.80	0

84.2	-12.27	-34.47	-14	1.73	0
84.3	-12.35	-34.54	-14	1.65	0
84.4	-12.43	-34.62	-14	1.57	0
84.5	-12.50	-34.69	-14	1.50	0
84.6	-12.58	-34.77	-14	1.42	0
84.7	-12.66	-34.85	-14	1.34	0
84.8	-12.73	-34.93	-14	1.27	0
84.9	-12.81	-35.00	-14	1.19	0
85.0	-12.89	-35.08	-14	1.11	0
85.1	-12.96	-35.15	-14	1.04	0
85.2	-13.03	-35.22	-14	0.97	0
85.3	-13.10	-35.30	-14	0.90	0
85.4	-13.17	-35.37	-14	0.83	0
85.5	-13.24	-35.43	-14	0.76	0
85.6	-13.31	-35.50	-14	0.69	0
85.7	-13.37	-35.56	-14	0.63	0
85.8	-13.43	-35.63	-14	0.57	0
85.9	-13.49	-35.69	-14	0.51	0
86.0	-13.55	-35.74	-14	0.45	0
86.1	-13.60	-35.80	-14	0.40	0
86.2	-13.66	-35.85	-14	0.34	0
86.3	-13.71	-35.90	-14	0.29	0
86.4	-13.75	-35.94	-14	0.25	0
86.5	-13.79	-35.99	-14	0.21	0
86.6	-13.84	-36.03	-14	0.16	0
86.7	-13.87	-36.07	-14	0.13	0
86.8	-13.91	-36.10	-14	0.09	0
86.9	-13.94	-36.13	-14	0.06	0
87.0	-13.97	-36.17	-14	0.03	0
87.1	-14.00	-36.20	-14	0.00	0
87.2	-14.03	-36.22	-14	-0.03	0
87.3	-14.06	-36.25	-14	-0.06	0
87.4	-14.08	-36.27	-14	-0.08	0
87.5	-14.10	-36.30	-14	-0.10	0
87.6	-14.13	-36.32	-14	-0.13	0
87.7	-14.15	-36.34	-14	-0.15	0
87.8	-14.17	-36.36	-14	-0.17	0
87.9	-14.19	-36.38	-14	-0.19	0
88.0	-14.21	-36.40	-14	-0.21	0
88.1	-14.23	-36.43	-14	-0.23	0
88.2	-14.26	-36.45	-14	-0.26	0
88.3	-14.28	-36.47	-14	-0.28	0
88.4	-14.30	-36.50	-14	-0.30	0
88.5	-14.33	-36.52	-14	-0.33	0
88.6	-14.36	-36.55	-14	-0.36	0
88.7	-14.39	-36.58	-14	-0.39	0
88.8	-14.42	-36.61	-14	-0.42	0
88.9	-14.45	-36.64	-14	-0.45	0
89.0	-14.49	-36.68	-14	-0.49	0
89.1	-14.53	-36.72	-14	-0.53	0

89.2	-14.57	-36.76	-14	-0.57	0
89.3	-14.62	-36.81	-14	-0.62	0
89.4	-14.67	-36.86	-14	-0.67	0
89.5	-14.72	-36.91	-14	-0.72	0
89.6	-14.77	-36.96	-14	-0.77	0
89.7	-14.83	-37.02	-14	-0.83	0
89.8	-14.90	-37.09	-14	-0.90	0
89.9	-14.96	-37.15	-14	-0.96	0
90.0	-15.03	-37.22	-14	-1.03	0
90.1	-15.11	-37.30	-14	-1.11	0
90.2	-15.19	-37.38	-14	-1.19	0
90.3	-15.27	-37.46	-14	-1.27	0
90.4	-15.35	-37.55	-14	-1.35	0
90.5	-15.45	-37.64	-14	-1.45	0
90.6	-15.54	-37.73	-14	-1.54	0
90.7	-15.64	-37.83	-14	-1.64	0
90.8	-15.74	-37.93	-14	-1.74	0
90.9	-15.84	-38.04	-14	-1.84	0
91.0	-15.95	-38.14	-14	-1.95	0
91.1	-16.06	-38.26	-14	-2.06	0
91.2	-16.18	-38.37	-14	-2.18	0
91.3	-16.30	-38.49	-14	-2.30	0
91.4	-16.42	-38.61	-14	-2.42	0
91.5	-16.54	-38.73	-14	-2.54	0
91.6	-16.66	-38.85	-14	-2.66	0
91.7	-16.78	-38.97	-14	-2.78	0
91.8	-16.91	-39.10	-14	-2.91	0
91.9	-17.03	-39.22	-14	-3.03	0
92.0	-17.15	-39.35	-14	-3.15	0
92.1	-17.28	-39.47	-14	-3.28	0
92.2	-17.40	-39.59	-14	-3.40	0
92.3	-17.51	-39.71	-14	-3.51	0
92.4	-17.63	-39.82	-14	-3.63	0
92.5	-17.74	-39.93	-14	-3.74	0
92.6	-17.85	-40.04	-14	-3.85	0
92.7	-17.95	-40.14	-14	-3.95	0
92.8	-18.04	-40.23	-14	-4.04	0
92.9	-18.13	-40.32	-14	-4.13	0
93.0	-18.21	-40.40	-14	-4.21	0
93.1	-18.28	-40.47	-14	-4.28	0
93.2	-18.35	-40.54	-14	-4.35	0
93.3	-18.40	-40.59	-14	-4.40	0
93.4	-18.45	-40.64	-14	-4.45	0
93.5	-18.49	-40.68	-14	-4.49	0
93.6	-18.52	-40.71	-14	-4.52	0
93.7	-18.54	-40.73	-14	-4.54	0
93.8	-18.55	-40.74	-14	-4.55	0
93.9	-18.56	-40.75	-14	-4.56	0
94.0	-18.56	-40.75	-14	-4.56	0
94.1	-18.55	-40.74	-14	-4.55	0

94.2	-18.54	-40.73	-14	-4.54	0
94.3	-18.52	-40.71	-14	-4.52	0
94.4	-18.49	-40.68	-14	-4.49	0
94.5	-18.47	-40.66	-14	-4.47	0
94.6	-18.44	-40.63	-14	-4.44	0
94.7	-18.40	-40.59	-14	-4.40	0
94.8	-18.37	-40.56	-14	-4.37	0
94.9	-18.34	-40.53	-14	-4.34	0
95.0	-18.30	-40.50	-14	-4.30	0
95.1	-18.27	-40.46	-14	-4.27	0
95.2	-18.24	-40.43	-14	-4.24	0
95.3	-18.22	-40.41	-14	-4.22	0
95.4	-18.19	-40.38	-14	-4.19	0
95.5	-18.17	-40.36	-14	-4.17	0
95.6	-18.16	-40.35	-14	-4.16	0
95.7	-18.15	-40.34	-14	-4.15	0
95.8	-18.14	-40.33	-14	-4.14	0
95.9	-18.14	-40.33	-14	-4.14	0
96.0	-18.15	-40.34	-14	-4.15	0
96.1	-18.16	-40.35	-14	-4.16	0
96.2	-18.18	-40.37	-14	-4.18	0
96.3	-18.21	-40.40	-14	-4.21	0
96.4	-18.25	-40.44	-14	-4.25	0
96.5	-18.29	-40.48	-14	-4.29	0
96.6	-18.34	-40.53	-14	-4.34	0
96.7	-18.40	-40.59	-14	-4.40	0
96.8	-18.47	-40.66	-14	-4.47	0
96.9	-18.54	-40.74	-14	-4.54	0
97.0	-18.63	-40.82	-14	-4.63	0
97.1	-18.72	-40.91	-14	-4.72	0
97.2	-18.82	-41.01	-14	-4.82	0
97.3	-18.93	-41.12	-14	-4.93	0
97.4	-19.05	-41.24	-14	-5.05	0
97.5	-19.18	-41.37	-14	-5.18	0
97.6	-19.31	-41.50	-14	-5.31	0
97.7	-19.46	-41.65	-14	-5.46	0
97.8	-19.61	-41.80	-14	-5.61	0
97.9	-19.76	-41.95	-14	-5.76	0
98.0	-19.93	-42.12	-14	-5.93	0
98.1	-20.09	-42.29	-14	-6.09	0
98.2	-20.27	-42.46	-14	-6.27	0
98.3	-20.45	-42.64	-14	-6.45	0
98.4	-20.63	-42.82	-14	-6.63	0
98.5	-20.81	-43.00	-14	-6.81	0
98.6	-20.99	-43.18	-14	-6.99	0
98.7	-21.17	-43.36	-14	-7.17	0
98.8	-21.35	-43.54	-14	-7.35	0
98.9	-21.52	-43.71	-14	-7.52	0
99.0	-21.68	-43.87	-14	-7.68	0
99.1	-21.84	-44.03	-14	-7.84	0

99.2	-21.98	-44.17	-14	-7.98	0
99.3	-22.10	-44.30	-14	-8.10	0
99.4	-22.22	-44.41	-14	-8.22	0
99.5	-22.31	-44.50	-14	-8.31	0
99.6	-22.38	-44.57	-14	-8.38	0
99.7	-22.43	-44.62	-14	-8.43	0
99.8	-22.46	-44.65	-14	-8.46	0
99.9	-22.47	-44.66	-14	-8.47	0
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100.2	-22.38	-44.57	-14	-8.38	0
100.3	-22.32	-44.51	-14	-8.32	0
100.4	-22.24	-44.43	-14	-8.24	0
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101.3	-21.29	-43.48	-14	-7.29	0
101.4	-21.19	-43.38	-14	-7.19	0
101.5	-21.10	-43.29	-14	-7.10	0
101.6	-21.02	-43.21	-14	-7.02	0
101.7	-20.95	-43.14	-14	-6.95	0
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101.9	-20.83	-43.02	-14	-6.83	0
102.0	-20.79	-42.98	-14	-6.79	0
102.1	-20.76	-42.96	-14	-6.76	0
102.2	-20.75	-42.94	-14	-6.75	0
102.3	-20.75	-42.94	-14	-6.75	0
102.4	-20.76	-42.95	-14	-6.76	0
102.5	-20.78	-42.97	-14	-6.78	0
102.6	-20.82	-43.01	-14	-6.82	0
102.7	-20.87	-43.06	-14	-6.87	0
102.8	-20.93	-43.13	-14	-6.93	0
102.9	-21.01	-43.20	-14	-7.01	0
103.0	-21.11	-43.30	-14	-7.11	0
103.1	-21.22	-43.41	-14	-7.22	0
103.2	-21.34	-43.53	-14	-7.34	0
103.3	-21.47	-43.66	-14	-7.47	0
103.4	-21.62	-43.81	-14	-7.62	0
103.5	-21.79	-43.98	-14	-7.79	0
103.6	-21.96	-44.16	-14	-7.96	0
103.7	-22.15	-44.34	-14	-8.15	0
103.8	-22.35	-44.55	-14	-8.35	0
103.9	-22.57	-44.76	-14	-8.57	0
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104.1	-23.01	-45.21	-14	-9.01	0

104.2	-23.25	-45.44	-14	-9.25	0
104.3	-23.49	-45.68	-14	-9.49	0
104.4	-23.72	-45.91	-14	-9.72	0
104.5	-23.95	-46.15	-14	-9.95	0
104.6	-24.18	-46.37	-14	-10.18	0
104.7	-24.39	-46.58	-14	-10.39	0
104.8	-24.59	-46.78	-14	-10.59	0
104.9	-24.76	-46.95	-14	-10.76	0
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105.3	-25.15	-47.35	-14	-11.15	0
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105.7	-24.97	-47.16	-14	-10.97	0
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106.2	-24.18	-46.37	-14	-10.18	0
106.3	-23.99	-46.18	-14	-9.99	0
106.4	-23.80	-45.99	-14	-9.80	0
106.5	-23.61	-45.80	-14	-9.61	0
106.6	-23.43	-45.62	-14	-9.43	0
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107.6	-22.32	-44.51	-14	-8.32	0
107.7	-22.30	-44.49	-14	-8.30	0
107.8	-22.29	-44.48	-14	-8.29	0
107.9	-22.31	-44.50	-14	-8.31	0
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108.6	-22.90	-45.09	-14	-8.90	0
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109.4	-24.50	-46.69	-14	-10.50	0
109.5	-24.74	-46.93	-14	-10.74	0
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109.7	-25.21	-47.40	-14	-11.21	0
109.8	-25.43	-47.63	-14	-11.43	0
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110.0	-25.83	-48.02	-14	-11.83	0
110.1	-26.00	-48.19	-14	-12.00	0
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110.6	-26.33	-48.52	-14	-12.33	0
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110.8	-26.22	-48.41	-14	-12.22	0
110.9	-26.12	-48.31	-14	-12.12	0
111.0	-26.00	-48.19	-14	-12.00	0
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111.5	-25.22	-47.41	-14	-11.22	0
111.6	-25.06	-47.25	-14	-11.06	0
111.7	-24.91	-47.10	-14	-10.91	0
111.8	-24.77	-46.96	-14	-10.77	0
111.9	-24.64	-46.83	-14	-10.64	0
112.0	-24.52	-46.71	-14	-10.52	0
112.1	-24.41	-46.60	-14	-10.41	0
112.2	-24.32	-46.51	-14	-10.32	0
112.3	-24.25	-46.44	-14	-10.25	0
112.4	-24.19	-46.38	-14	-10.19	0
112.5	-24.14	-46.34	-14	-10.14	0
112.6	-24.12	-46.31	-14	-10.12	0
112.7	-24.10	-46.30	-14	-10.10	0
112.8	-24.11	-46.30	-14	-10.11	0
112.9	-24.13	-46.32	-14	-10.13	0
113.0	-24.16	-46.35	-14	-10.16	0
113.1	-24.21	-46.40	-14	-10.21	0
113.2	-24.27	-46.46	-14	-10.27	0
113.3	-24.34	-46.53	-14	-10.34	0
113.4	-24.43	-46.62	-14	-10.43	0
113.5	-24.52	-46.71	-14	-10.52	0
113.6	-24.63	-46.82	-14	-10.63	0
113.7	-24.74	-46.93	-14	-10.74	0
113.8	-24.86	-47.06	-14	-10.86	0
113.9	-24.99	-47.18	-14	-10.99	0
114.0	-25.12	-47.32	-14	-11.12	0
114.1	-25.26	-47.45	-14	-11.26	0

114.2	-25.40	-47.59	-14	-11.40	0
114.3	-25.53	-47.72	-14	-11.53	0
114.4	-25.67	-47.86	-14	-11.67	0
114.5	-25.80	-47.99	-14	-11.80	0
114.6	-25.93	-48.12	-14	-11.93	0
114.7	-26.05	-48.24	-14	-12.05	0
114.8	-26.17	-48.36	-14	-12.17	0
114.9	-26.28	-48.47	-14	-12.28	0
115.0	-26.38	-48.57	-14	-12.38	0
115.1	-26.47	-48.66	-14	-12.47	0
115.2	-26.55	-48.74	-14	-12.55	0
115.3	-26.63	-48.82	-14	-12.63	0
115.4	-26.70	-48.89	-14	-12.70	0
115.5	-26.75	-48.95	-14	-12.75	0
115.6	-26.81	-49.00	-14	-12.81	0
115.7	-26.85	-49.04	-14	-12.85	0
115.8	-26.88	-49.08	-14	-12.88	0
115.9	-26.91	-49.10	-14	-12.91	0
116.0	-26.93	-49.12	-14	-12.93	0
116.1	-26.95	-49.14	-14	-12.95	0
116.2	-26.95	-49.14	-14	-12.95	0
116.3	-26.95	-49.14	-14	-12.95	0
116.4	-26.94	-49.13	-14	-12.94	0
116.5	-26.92	-49.11	-14	-12.92	0
116.6	-26.89	-49.08	-14	-12.89	0
116.7	-26.84	-49.04	-14	-12.84	0
116.8	-26.79	-48.98	-14	-12.79	0
116.9	-26.73	-48.92	-14	-12.73	0
117.0	-26.66	-48.85	-14	-12.66	0
117.1	-26.57	-48.76	-14	-12.57	0
117.2	-26.47	-48.67	-14	-12.47	0
117.3	-26.37	-48.56	-14	-12.37	0
117.4	-26.25	-48.45	-14	-12.25	0
117.5	-26.13	-48.33	-14	-12.13	0
117.6	-26.01	-48.20	-14	-12.01	0
117.7	-25.88	-48.07	-14	-11.88	0
117.8	-25.75	-47.94	-14	-11.75	0
117.9	-25.62	-47.81	-14	-11.62	0
118.0	-25.50	-47.69	-14	-11.50	0
118.1	-25.38	-47.57	-14	-11.38	0
118.2	-25.27	-47.46	-14	-11.27	0
118.3	-25.17	-47.36	-14	-11.17	0
118.4	-25.09	-47.28	-14	-11.09	0
118.5	-25.01	-47.21	-14	-11.01	0
118.6	-24.96	-47.15	-14	-10.96	0
118.7	-24.92	-47.11	-14	-10.92	0
118.8	-24.91	-47.10	-14	-10.91	0
118.9	-24.91	-47.10	-14	-10.91	0
119.0	-24.94	-47.13	-14	-10.94	0
119.1	-24.99	-47.18	-14	-10.99	0

119.2	-25.07	-47.26	-14	-11.07	0
119.3	-25.18	-47.37	-14	-11.18	0
119.4	-25.31	-47.51	-14	-11.31	0
119.5	-25.48	-47.67	-14	-11.48	0
119.6	-25.68	-47.87	-14	-11.68	0
119.7	-25.91	-48.10	-14	-11.91	0
119.8	-26.17	-48.36	-14	-12.17	0
119.9	-26.46	-48.65	-14	-12.46	0
120.0	-26.79	-48.98	-14	-12.79	0
120.1	-27.14	-49.33	-14	-13.14	0
120.2	-27.52	-49.71	-14	-13.52	0
120.3	-27.92	-50.11	-14	-13.92	0
120.4	-28.33	-50.53	-14	-14.33	0
120.5	-28.74	-50.93	-14	-14.74	0
120.6	-29.13	-51.32	-14	-15.13	0
120.7	-29.47	-51.66	-14	-15.47	0
120.8	-29.75	-51.94	-14	-15.75	0
120.9	-29.93	-52.12	-14	-15.93	0
121.0	-29.99	-52.18	-14	-15.99	0
121.1	-29.92	-52.11	-14	-15.92	0
121.2	-29.73	-51.92	-14	-15.73	0
121.3	-29.43	-51.62	-14	-15.43	0
121.4	-29.05	-51.24	-14	-15.05	0
121.5	-28.62	-50.81	-14	-14.62	0
121.6	-28.15	-50.34	-14	-14.15	0
121.7	-27.67	-49.86	-14	-13.67	0
121.8	-27.20	-49.39	-14	-13.20	0
121.9	-26.75	-48.94	-14	-12.75	0
122.0	-26.33	-48.52	-14	-12.33	0
122.1	-25.94	-48.13	-14	-11.94	0
122.2	-25.59	-47.78	-14	-11.59	0
122.3	-25.28	-47.47	-14	-11.28	0
122.4	-25.00	-47.20	-14	-11.00	0
122.5	-24.77	-46.97	-14	-10.77	0
122.6	-24.58	-46.78	-14	-10.58	0
122.7	-24.44	-46.63	-14	-10.44	0
122.8	-24.33	-46.53	-14	-10.33	0
122.9	-24.27	-46.46	-14	-10.27	0
123.0	-24.26	-46.45	-14	-10.26	0
123.1	-24.28	-46.47	-14	-10.28	0
123.2	-24.35	-46.55	-14	-10.35	0
123.3	-24.47	-46.66	-14	-10.47	0
123.4	-24.63	-46.83	-14	-10.63	0
123.5	-24.85	-47.04	-14	-10.85	0
123.6	-25.11	-47.30	-14	-11.11	0
123.7	-25.42	-47.61	-14	-11.42	0
123.8	-25.78	-47.98	-14	-11.78	0
123.9	-26.20	-48.39	-14	-12.20	0
124.0	-26.67	-48.87	-14	-12.67	0
124.1	-27.20	-49.39	-14	-13.20	0

124.2	-27.78	-49.97	-14	-13.78	0
124.3	-28.40	-50.59	-14	-14.40	0
124.4	-29.06	-51.25	-14	-15.06	0
124.5	-29.73	-51.93	-14	-15.73	0
124.6	-30.39	-52.58	-14	-16.39	0
124.7	-30.97	-53.16	-14	-16.97	0
124.8	-31.43	-53.62	-14	-17.43	0
124.9	-31.69	-53.88	-14	-17.69	0
125.0	-31.72	-53.91	-14	-17.72	0
125.1	-31.52	-53.71	-14	-17.52	0
125.2	-31.13	-53.32	-14	-17.13	0
125.3	-30.60	-52.79	-14	-16.60	0
125.4	-30.01	-52.20	-14	-16.01	0
125.5	-29.40	-51.59	-14	-15.40	0
125.6	-28.80	-50.99	-14	-14.80	0
125.7	-28.24	-50.43	-14	-14.24	0
125.8	-27.72	-49.91	-14	-13.72	0
125.9	-27.26	-49.45	-14	-13.26	0
126.0	-26.85	-49.04	-14	-12.85	0
126.1	-26.49	-48.68	-14	-12.49	0
126.2	-26.19	-48.38	-14	-12.19	0
126.3	-25.94	-48.13	-14	-11.94	0
126.4	-25.74	-47.94	-14	-11.74	0
126.5	-25.59	-47.79	-14	-11.59	0
126.6	-25.49	-47.68	-14	-11.49	0
126.7	-25.43	-47.62	-14	-11.43	0
126.8	-25.41	-47.60	-14	-11.41	0
126.9	-25.43	-47.62	-14	-11.43	0
127.0	-25.49	-47.68	-14	-11.49	0
127.1	-25.58	-47.77	-14	-11.58	0
127.2	-25.69	-47.89	-14	-11.69	0
127.3	-25.84	-48.03	-14	-11.84	0
127.4	-26.01	-48.20	-14	-12.01	0
127.5	-26.19	-48.38	-14	-12.19	0
127.6	-26.38	-48.57	-14	-12.38	0
127.7	-26.58	-48.77	-14	-12.58	0
127.8	-26.78	-48.97	-14	-12.78	0
127.9	-26.98	-49.17	-14	-12.98	0
128.0	-27.16	-49.35	-14	-13.16	0
128.1	-27.33	-49.52	-14	-13.33	0
128.2	-27.48	-49.67	-14	-13.48	0
128.3	-27.61	-49.81	-14	-13.61	0
128.4	-27.73	-49.92	-14	-13.73	0
128.5	-27.83	-50.03	-14	-13.83	0
128.6	-27.93	-50.12	-14	-13.93	0
128.7	-28.02	-50.21	-14	-14.02	0
128.8	-28.12	-50.31	-14	-14.12	0
128.9	-28.23	-50.42	-14	-14.23	0
129.0	-28.35	-50.54	-14	-14.35	0
129.1	-28.50	-50.69	-14	-14.50	0

129.2	-28.68	-50.87	-14	-14.68	0
129.3	-28.89	-51.09	-14	-14.89	0
129.4	-29.14	-51.33	-14	-15.14	0
129.5	-29.42	-51.61	-14	-15.42	0
129.6	-29.73	-51.93	-14	-15.73	0
129.7	-30.06	-52.25	-14	-16.06	0
129.8	-30.39	-52.58	-14	-16.39	0
129.9	-30.70	-52.89	-14	-16.70	0
130.0	-30.94	-53.13	-14	-16.94	0
130.1	-31.07	-53.27	-14	-17.07	0
130.2	-31.07	-53.26	-14	-17.07	0
130.3	-30.90	-53.09	-14	-16.90	0
130.4	-30.56	-52.75	-14	-16.56	0
130.5	-30.08	-52.27	-14	-16.08	0
130.6	-29.49	-51.68	-14	-15.49	0
130.7	-28.84	-51.04	-14	-14.84	0
130.8	-28.17	-50.36	-14	-14.17	0
130.9	-27.51	-49.70	-14	-13.51	0
131.0	-26.87	-49.06	-14	-12.87	0
131.1	-26.27	-48.46	-14	-12.27	0
131.2	-25.72	-47.91	-14	-11.72	0
131.3	-25.23	-47.42	-14	-11.23	0
131.4	-24.79	-46.99	-14	-10.79	0
131.5	-24.42	-46.61	-14	-10.42	0
131.6	-24.11	-46.30	-14	-10.11	0
131.7	-23.86	-46.05	-14	-9.86	0
131.8	-23.67	-45.86	-14	-9.67	0
131.9	-23.55	-45.74	-14	-9.55	0
132.0	-23.49	-45.68	-14	-9.49	0
132.1	-23.50	-45.69	-14	-9.50	0
132.2	-23.59	-45.78	-14	-9.59	0
132.3	-23.75	-45.94	-14	-9.75	0
132.4	-23.99	-46.18	-14	-9.99	0
132.5	-24.32	-46.51	-14	-10.32	0
132.6	-24.75	-46.94	-14	-10.75	0
132.7	-25.29	-47.48	-14	-11.29	0
132.8	-25.95	-48.15	-14	-11.95	0
132.9	-26.77	-48.97	-14	-12.77	0
133.0	-27.78	-49.97	-14	-13.78	0
133.1	-29.03	-51.22	-14	-15.03	0
133.2	-30.60	-52.79	-14	-16.60	0
133.3	-32.65	-54.84	-14	-18.65	0
133.4	-35.48	-57.67	-14	-21.48	0
133.5	-39.89	-62.08	-14	-25.89	0
133.6	-49.26	-71.45	-14	-35.26	0
133.7	-47.54	-69.73	-14	-33.54	0
133.8	-39.10	-61.29	-14	-25.10	0
133.9	-34.85	-57.04	-14	-20.85	0
134.0	-32.03	-54.22	-14	-18.03	0
134.1	-29.95	-52.14	-14	-15.95	0

134.2	-28.33	-50.52	-14	-14.33	0
134.3	-27.02	-49.21	-14	-13.02	0
134.4	-25.95	-48.14	-14	-11.95	0
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134.6	-24.32	-46.51	-14	-10.32	0
134.7	-23.71	-45.90	-14	-9.71	0
134.8	-23.22	-45.41	-14	-9.22	0
134.9	-22.82	-45.02	-14	-8.82	0
135.0	-22.52	-44.72	-14	-8.52	0
135.1	-22.31	-44.50	-14	-8.31	0
135.2	-22.18	-44.38	-14	-8.18	0
135.3	-22.14	-44.33	-14	-8.14	0
135.4	-22.17	-44.36	-14	-8.17	0
135.5	-22.28	-44.48	-14	-8.28	0
135.6	-22.48	-44.67	-14	-8.48	0
135.7	-22.76	-44.95	-14	-8.76	0
135.8	-23.13	-45.32	-14	-9.13	0
135.9	-23.60	-45.79	-14	-9.60	0
136.0	-24.17	-46.36	-14	-10.17	0
136.1	-24.85	-47.04	-14	-10.85	0
136.2	-25.67	-47.86	-14	-11.67	0
136.3	-26.64	-48.83	-14	-12.64	0
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136.5	-29.18	-51.37	-14	-15.18	0
136.6	-30.85	-53.04	-14	-16.85	0
136.7	-32.91	-55.10	-14	-18.91	0
136.8	-35.45	-57.64	-14	-21.45	0
136.9	-38.42	-60.62	-14	-24.42	0
137.0	-40.67	-62.87	-14	-26.67	0
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137.2	-37.10	-59.29	-14	-23.10	0
137.3	-34.66	-56.85	-14	-20.66	0
137.4	-32.72	-54.91	-14	-18.72	0
137.5	-31.21	-53.40	-14	-17.21	0
137.6	-30.02	-52.21	-14	-16.02	0
137.7	-29.08	-51.27	-14	-15.08	0
137.8	-28.34	-50.53	-14	-14.34	0
137.9	-27.76	-49.95	-14	-13.76	0
138.0	-27.32	-49.51	-14	-13.32	0
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138.6	-26.56	-48.76	-14	-12.56	0
138.7	-26.60	-48.79	-14	-12.60	0
138.8	-26.64	-48.83	-14	-12.64	0
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139.5	-25.84	-48.03	-14	-11.84	0
139.6	-25.59	-47.78	-14	-11.59	0
139.7	-25.36	-47.55	-14	-11.36	0
139.8	-25.15	-47.34	-14	-11.15	0
139.9	-24.97	-47.16	-14	-10.97	0
140.0	-24.85	-47.05	-14	-10.85	0
140.1	-24.80	-46.99	-14	-10.80	0
140.2	-24.82	-47.01	-14	-10.82	0
140.3	-24.92	-47.11	-14	-10.92	0
140.4	-25.12	-47.32	-14	-11.12	0
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140.8	-27.23	-49.42	-14	-13.23	0
140.9	-28.22	-50.42	-14	-14.22	0
141.0	-29.51	-51.70	-14	-15.51	0
141.1	-31.20	-53.39	-14	-17.20	0
141.2	-33.51	-55.70	-14	-19.51	0
141.3	-36.92	-59.11	-14	-22.92	0
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141.5	-49.18	-71.37	-14	-35.18	0
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141.7	-35.10	-57.29	-14	-21.10	0
141.8	-31.83	-54.02	-14	-17.83	0
141.9	-29.47	-51.66	-14	-15.47	0
142.0	-27.65	-49.84	-14	-13.65	0
142.1	-26.19	-48.38	-14	-12.19	0
142.2	-25.00	-47.20	-14	-11.00	0
142.3	-24.03	-46.22	-14	-10.03	0
142.4	-23.22	-45.41	-14	-9.22	0
142.5	-22.56	-44.75	-14	-8.56	0
142.6	-22.03	-44.23	-14	-8.03	0
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142.8	-21.32	-43.51	-14	-7.32	0
142.9	-21.12	-43.31	-14	-7.12	0
143.0	-21.01	-43.20	-14	-7.01	0
143.1	-21.01	-43.20	-14	-7.01	0
143.2	-21.10	-43.29	-14	-7.10	0
143.3	-21.29	-43.48	-14	-7.29	0
143.4	-21.59	-43.78	-14	-7.59	0
143.5	-22.00	-44.19	-14	-8.00	0
143.6	-22.53	-44.72	-14	-8.53	0
143.7	-23.20	-45.39	-14	-9.20	0
143.8	-24.03	-46.22	-14	-10.03	0
143.9	-25.04	-47.23	-14	-11.04	0
144.0	-26.28	-48.47	-14	-12.28	0
144.1	-27.83	-50.02	-14	-13.83	0

144.2	-29.79	-51.98	-14	-15.79	0
144.3	-32.39	-54.58	-14	-18.39	0
144.4	-36.12	-58.31	-14	-22.12	0
144.5	-42.23	-64.42	-14	-28.23	0
144.6	-46.84	-69.03	-14	-32.84	0
144.7	-39.33	-61.53	-14	-25.33	0
144.8	-34.82	-57.01	-14	-20.82	0
144.9	-31.96	-54.15	-14	-17.96	0
145.0	-29.95	-52.14	-14	-15.95	0
145.1	-28.48	-50.67	-14	-14.48	0
145.2	-27.36	-49.56	-14	-13.36	0
145.3	-26.53	-48.72	-14	-12.53	0
145.4	-25.91	-48.10	-14	-11.91	0
145.5	-25.47	-47.66	-14	-11.47	0
145.6	-25.20	-47.39	-14	-11.20	0
145.7	-25.06	-47.26	-14	-11.06	0
145.8	-25.06	-47.25	-14	-11.06	0
145.9	-25.18	-47.37	-14	-11.18	0
146.0	-25.40	-47.59	-14	-11.40	0
146.1	-25.72	-47.91	-14	-11.72	0
146.2	-26.12	-48.31	-14	-12.12	0
146.3	-26.57	-48.76	-14	-12.57	0
146.4	-27.02	-49.21	-14	-13.02	0
146.5	-27.43	-49.62	-14	-13.43	0
146.6	-27.73	-49.92	-14	-13.73	0
146.7	-27.86	-50.05	-14	-13.86	0
146.8	-27.78	-49.97	-14	-13.78	0
146.9	-27.51	-49.70	-14	-13.51	0
147.0	-27.10	-49.29	-14	-13.10	0
147.1	-26.61	-48.80	-14	-12.61	0
147.2	-26.11	-48.30	-14	-12.11	0
147.3	-25.64	-47.83	-14	-11.64	0
147.4	-25.24	-47.43	-14	-11.24	0
147.5	-24.93	-47.12	-14	-10.93	0
147.6	-24.73	-46.92	-14	-10.73	0
147.7	-24.64	-46.83	-14	-10.64	0
147.8	-24.67	-46.86	-14	-10.67	0
147.9	-24.85	-47.04	-14	-10.85	0
148.0	-25.17	-47.36	-14	-11.17	0
148.1	-25.67	-47.86	-14	-11.67	0
148.2	-26.38	-48.57	-14	-12.38	0
148.3	-27.33	-49.52	-14	-13.33	0
148.4	-28.59	-50.79	-14	-14.59	0
148.5	-30.30	-52.49	-14	-16.30	0
148.6	-32.66	-54.85	-14	-18.66	0
148.7	-36.14	-58.33	-14	-22.14	0
148.8	-41.62	-63.81	-14	-27.62	0
148.9	-43.53	-65.73	-14	-29.53	0
149.0	-37.30	-59.49	-14	-23.30	0
149.1	-33.00	-55.19	-14	-19.00	0

149.2	-30.07	-52.26	-14	-16.07	0
149.3	-27.91	-50.10	-14	-13.91	0
149.4	-26.24	-48.43	-14	-12.24	0
149.5	-24.91	-47.10	-14	-10.91	0
149.6	-23.85	-46.04	-14	-9.85	0
149.7	-23.00	-45.19	-14	-9.00	0
149.8	-22.32	-44.52	-14	-8.32	0
149.9	-21.81	-44.00	-14	-7.81	0
150.0	-21.43	-43.62	-14	-7.43	0
150.1	-21.19	-43.38	-14	-7.19	0
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150.3	-21.07	-43.26	-14	-7.07	0
150.4	-21.19	-43.38	-14	-7.19	0
150.5	-21.45	-43.64	-14	-7.45	0
150.6	-21.83	-44.02	-14	-7.83	0
150.7	-22.36	-44.55	-14	-8.36	0
150.8	-23.06	-45.25	-14	-9.06	0
150.9	-23.94	-46.13	-14	-9.94	0
151.0	-25.04	-47.23	-14	-11.04	0
151.1	-26.43	-48.62	-14	-12.43	0
151.2	-28.19	-50.38	-14	-14.19	0
151.3	-30.50	-52.70	-14	-16.50	0
151.4	-33.72	-55.91	-14	-19.72	0
151.5	-38.70	-60.89	-14	-24.70	0
151.6	-46.22	-68.41	-14	-32.22	0
151.7	-40.92	-63.11	-14	-26.92	0
151.8	-35.46	-57.66	-14	-21.46	0
151.9	-32.21	-54.40	-14	-18.21	0
152.0	-30.02	-52.21	-14	-16.02	0
152.1	-28.47	-50.67	-14	-14.47	0
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152.5	-25.76	-47.95	-14	-11.76	0
152.6	-25.67	-47.86	-14	-11.67	0
152.7	-25.79	-47.98	-14	-11.79	0
152.8	-26.11	-48.30	-14	-12.11	0
152.9	-26.63	-48.83	-14	-12.63	0
153.0	-27.37	-49.56	-14	-13.37	0
153.1	-28.32	-50.52	-14	-14.32	0
153.2	-29.48	-51.67	-14	-15.48	0
153.3	-30.73	-52.92	-14	-16.73	0
153.4	-31.80	-54.00	-14	-17.80	0
153.5	-32.20	-54.40	-14	-18.20	0
153.6	-31.60	-53.79	-14	-17.60	0
153.7	-30.28	-52.47	-14	-16.28	0
153.8	-28.75	-50.94	-14	-14.75	0
153.9	-27.30	-49.49	-14	-13.30	0
154.0	-26.03	-48.22	-14	-12.03	0
154.1	-24.97	-47.16	-14	-10.97	0

154.2	-24.10	-46.29	-14	-10.10	0
154.3	-23.41	-45.60	-14	-9.41	0
154.4	-22.89	-45.08	-14	-8.89	0
154.5	-22.52	-44.72	-14	-8.52	0
154.6	-22.32	-44.51	-14	-8.32	0
154.7	-22.26	-44.45	-14	-8.26	0
154.8	-22.35	-44.54	-14	-8.35	0
154.9	-22.60	-44.79	-14	-8.60	0
155.0	-23.03	-45.22	-14	-9.03	0
155.1	-23.65	-45.84	-14	-9.65	0
155.2	-24.49	-46.68	-14	-10.49	0
155.3	-25.60	-47.79	-14	-11.60	0
155.4	-27.07	-49.26	-14	-13.07	0
155.5	-29.02	-51.22	-14	-15.02	0
155.6	-31.72	-53.91	-14	-17.72	0
155.7	-35.63	-57.83	-14	-21.63	0
155.8	-40.57	-62.76	-14	-26.57	0
155.9	-38.71	-60.91	-14	-24.71	0
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156.1	-30.41	-52.60	-14	-16.41	0
156.2	-28.00	-50.19	-14	-14.00	0
156.3	-26.20	-48.39	-14	-12.20	0
156.4	-24.84	-47.03	-14	-10.84	0
156.5	-23.79	-45.98	-14	-9.79	0
156.6	-22.99	-45.19	-14	-8.99	0
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156.9	-21.79	-43.98	-14	-7.79	0
157.0	-21.73	-43.92	-14	-7.73	0
157.1	-21.82	-44.01	-14	-7.82	0
157.2	-22.08	-44.27	-14	-8.08	0
157.3	-22.50	-44.69	-14	-8.50	0
157.4	-23.11	-45.30	-14	-9.11	0
157.5	-23.91	-46.11	-14	-9.91	0
157.6	-24.95	-47.14	-14	-10.95	0
157.7	-26.26	-48.45	-14	-12.26	0
157.8	-27.89	-50.08	-14	-13.89	0
157.9	-29.87	-52.07	-14	-15.87	0
158.0	-32.11	-54.30	-14	-18.11	0
158.1	-33.92	-56.11	-14	-19.92	0
158.2	-33.92	-56.11	-14	-19.92	0
158.3	-32.22	-54.41	-14	-18.22	0
158.4	-30.19	-52.38	-14	-16.19	0
158.5	-28.43	-50.62	-14	-14.43	0
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158.7	-25.99	-48.18	-14	-11.99	0
158.8	-25.22	-47.41	-14	-11.22	0
158.9	-24.71	-46.90	-14	-10.71	0
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159.1	-24.36	-46.56	-14	-10.36	0

159.2	-24.53	-46.72	-14	-10.53	0
159.3	-24.94	-47.13	-14	-10.94	0
159.4	-25.61	-47.80	-14	-11.61	0
159.5	-26.60	-48.79	-14	-12.60	0
159.6	-28.01	-50.20	-14	-14.01	0
159.7	-30.01	-52.20	-14	-16.01	0
159.8	-32.96	-55.15	-14	-18.96	0
159.9	-37.75	-59.95	-14	-23.75	0
160.0	-44.45	-66.64	-14	-30.45	0
160.1	-38.29	-60.48	-14	-24.29	0
160.2	-32.82	-55.01	-14	-18.82	0
160.3	-29.38	-51.57	-14	-15.38	0
160.4	-26.95	-49.14	-14	-12.95	0
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160.6	-23.73	-45.92	-14	-9.73	0
160.7	-22.64	-44.83	-14	-8.64	0
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161.0	-20.72	-42.91	-14	-6.72	0
161.1	-20.44	-42.63	-14	-6.44	0
161.2	-20.32	-42.51	-14	-6.32	0
161.3	-20.36	-42.56	-14	-6.36	0
161.4	-20.57	-42.76	-14	-6.57	0
161.5	-20.94	-43.13	-14	-6.94	0
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161.7	-22.26	-44.45	-14	-8.26	0
161.8	-23.27	-45.46	-14	-9.27	0
161.9	-24.59	-46.78	-14	-10.59	0
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162.2	-32.08	-54.27	-14	-18.08	0
162.3	-37.79	-59.98	-14	-23.79	0
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162.5	-37.86	-60.05	-14	-23.86	0
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162.7	-29.20	-51.39	-14	-15.20	0
162.8	-27.06	-49.25	-14	-13.06	0
162.9	-25.54	-47.73	-14	-11.54	0
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163.4	-22.90	-45.10	-14	-8.90	0
163.5	-23.09	-45.28	-14	-9.09	0
163.6	-23.50	-45.69	-14	-9.50	0
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163.8	-25.06	-47.25	-14	-11.06	0
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164.5	-28.16	-50.36	-14	-14.16	0
164.6	-26.29	-48.48	-14	-12.29	0
164.7	-24.69	-46.88	-14	-10.69	0
164.8	-23.39	-45.58	-14	-9.39	0
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165.1	-20.94	-43.14	-14	-6.94	0
165.2	-20.54	-42.73	-14	-6.54	0
165.3	-20.31	-42.51	-14	-6.31	0
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166.5	-32.40	-54.59	-14	-18.40	0
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167.2	-20.50	-42.69	-14	-6.50	0
167.3	-20.02	-42.21	-14	-6.02	0
167.4	-19.73	-41.92	-14	-5.73	0
167.5	-19.62	-41.81	-14	-5.62	0
167.6	-19.69	-41.88	-14	-5.69	0
167.7	-19.93	-42.13	-14	-5.93	0
167.8	-20.36	-42.55	-14	-6.36	0
167.9	-20.99	-43.18	-14	-6.99	0
168.0	-21.82	-44.01	-14	-7.82	0
168.1	-22.88	-45.07	-14	-8.88	0
168.2	-24.18	-46.37	-14	-10.18	0
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173.6	-20.69	-42.89	-14	-6.69	0
173.7	-20.96	-43.16	-14	-6.96	0
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173.9	-22.51	-44.70	-14	-8.51	0
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174.3	-33.55	-55.74	-14	-19.55	0
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175.6	-13.71	-35.90	-14	0.29	0
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175.9	-14.29	-36.48	-14	-0.29	0
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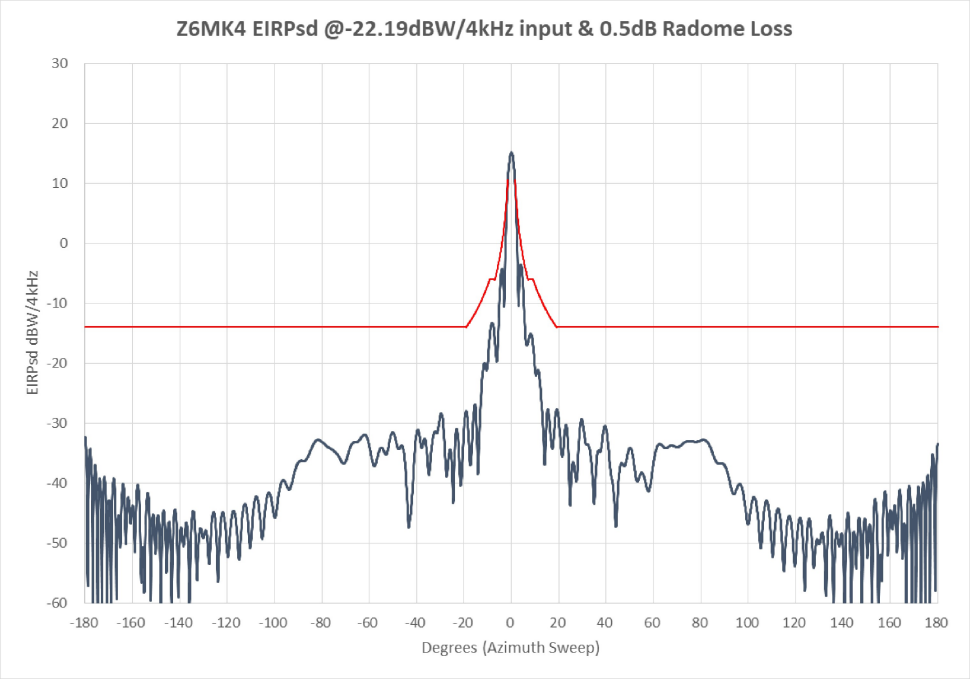
176.8	-32.78	-54.97	-14	-18.78	0
176.9	-28.22	-50.41	-14	-14.22	0
177.0	-24.19	-46.38	-14	-10.19	0
177.1	-21.45	-43.64	-14	-7.45	0
177.2	-19.51	-41.70	-14	-5.51	0
177.3	-18.10	-40.29	-14	-4.10	0
177.4	-17.08	-39.27	-14	-3.08	0
177.5	-16.37	-38.56	-14	-2.37	0
177.6	-15.93	-38.12	-14	-1.93	0
177.7	-15.74	-37.93	-14	-1.74	0
177.8	-15.78	-37.97	-14	-1.78	0
177.9	-16.07	-38.26	-14	-2.07	0
178.0	-16.63	-38.82	-14	-2.63	0
178.1	-17.52	-39.71	-14	-3.52	0
178.2	-18.81	-41.00	-14	-4.81	0
178.3	-20.69	-42.88	-14	-6.69	0
178.4	-23.54	-45.73	-14	-9.54	0
178.5	-28.47	-50.66	-14	-14.47	0
178.6	-42.52	-64.71	-14	-28.52	0
178.7	-31.18	-53.38	-14	-17.18	0
178.8	-24.15	-46.34	-14	-10.15	0
178.9	-20.25	-42.44	-14	-6.25	0
179.0	-17.57	-39.76	-14	-3.57	0
179.1	-15.57	-37.76	-14	-1.57	0

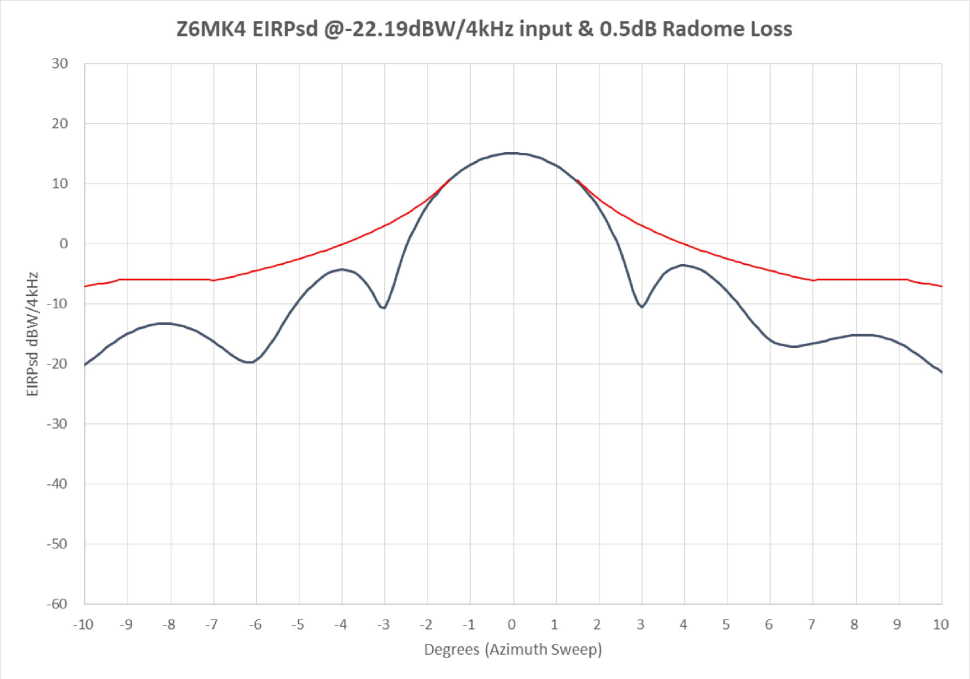
179.2	-14.00	-36.19	-14	0.00	0
179.3	-12.75	-34.95	-14	1.25	0
179.4	-11.76	-33.95	-14	2.24	0
179.5	-10.96	-33.15	-14	3.04	0
179.6	-10.34	-32.53	-14	3.66	0
179.7	-9.87	-32.06	-14	4.13	0
179.8	-9.55	-31.74	-14	4.45	0
179.9	-9.35	-31.55	-14	4.65	0
180.0	-9.29	-31.48	-14	4.71	0

3) 14.5GHz

a) At off-axis angles from ±180° range (Tangent)



b) At off-axis angles from ±10° range (Tangent)



Model	Z6MK4	Min input: (@all freq.)	-22.19
Frequency	14.50 [GHz]		
GSO arc	Tangent		
EIRPsd Input	-21.80 [dBW/4kHz]		
Radome Loss	0.5 [dB]		
	36.91		out of spec.

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-10.52	-32.32	-14	3.48	0
-179.9	-10.60	-32.40	-14	3.40	0
-179.8	-10.86	-32.66	-14	3.14	0
-179.7	-11.29	-33.09	-14	2.71	0
-179.6	-11.92	-33.72	-14	2.08	0
-179.5	-12.78	-34.58	-14	1.22	0
-179.4	-13.91	-35.72	-14	0.09	0
-179.3	-15.40	-37.20	-14	-1.40	0
-179.2	-17.38	-39.18	-14	-3.38	0
-179.1	-20.14	-41.94	-14	-6.14	0
-179.0	-24.40	-46.20	-14	-10.40	0
-178.9	-33.35	-55.15	-14	-19.35	0
-178.8	-35.40	-57.20	-14	-21.40	0
-178.7	-25.29	-47.09	-14	-11.29	0
-178.6	-20.92	-42.72	-14	-6.92	0
-178.5	-18.21	-40.01	-14	-4.21	0
-178.4	-16.33	-38.13	-14	-2.33	0
-178.3	-14.97	-36.77	-14	-0.97	0
-178.2	-13.98	-35.78	-14	0.02	0
-178.1	-13.28	-35.08	-14	0.72	0
-178.0	-12.82	-34.62	-14	1.18	0
-177.9	-12.57	-34.38	-14	1.43	0
-177.8	-12.53	-34.33	-14	1.47	0
-177.7	-12.67	-34.47	-14	1.33	0
-177.6	-13.01	-34.81	-14	0.99	0
-177.5	-13.55	-35.36	-14	0.45	0
-177.4	-14.33	-36.13	-14	-0.33	0
-177.3	-15.37	-37.18	-14	-1.37	0
-177.2	-16.75	-38.55	-14	-2.75	0
-177.1	-18.57	-40.38	-14	-4.57	0
-177.0	-21.07	-42.88	-14	-7.07	0
-176.9	-24.76	-46.56	-14	-10.76	0
-176.8	-31.24	-53.04	-14	-17.24	0
-176.7	-39.54	-61.34	-14	-25.54	0
-176.6	-28.78	-50.58	-14	-14.78	0
-176.5	-23.84	-45.64	-14	-9.84	0
-176.4	-20.89	-42.70	-14	-6.89	0
-176.3	-18.91	-40.71	-14	-4.91	0
-176.2	-17.51	-39.31	-14	-3.51	0
-176.1	-16.51	-38.31	-14	-2.51	0
-176.0	-15.83	-37.64	-14	-1.83	0
-175.9	-15.42	-37.22	-14	-1.42	0

-175.8	-15.24	-37.04	-14	-1.24	0
-175.7	-15.28	-37.08	-14	-1.28	0
-175.6	-15.53	-37.34	-14	-1.53	0
-175.5	-16.01	-37.82	-14	-2.01	0
-175.4	-16.74	-38.54	-14	-2.74	0
-175.3	-17.75	-39.55	-14	-3.75	0
-175.2	-19.12	-40.92	-14	-5.12	0
-175.1	-20.96	-42.76	-14	-6.96	0
-175.0	-23.53	-45.33	-14	-9.53	0
-174.9	-27.41	-49.21	-14	-13.41	0
-174.8	-34.79	-56.59	-14	-20.79	0
-174.7	-42.78	-64.59	-14	-28.78	0
-174.6	-30.35	-52.15	-14	-16.35	0
-174.5	-25.56	-47.37	-14	-11.56	0
-174.4	-22.71	-44.51	-14	-8.71	0
-174.3	-20.78	-42.59	-14	-6.78	0
-174.2	-19.43	-41.23	-14	-5.43	0
-174.1	-18.49	-40.29	-14	-4.49	0
-174.0	-17.86	-39.67	-14	-3.86	0
-173.9	-17.51	-39.31	-14	-3.51	0
-173.8	-17.40	-39.21	-14	-3.40	0
-173.7	-17.53	-39.33	-14	-3.53	0
-173.6	-17.90	-39.70	-14	-3.90	0
-173.5	-18.53	-40.33	-14	-4.53	0
-173.4	-19.46	-41.26	-14	-5.46	0
-173.3	-20.75	-42.55	-14	-6.75	0
-173.2	-22.54	-44.34	-14	-8.54	0
-173.1	-25.08	-46.89	-14	-11.08	0
-173.0	-29.02	-50.82	-14	-15.02	0
-172.9	-36.72	-58.52	-14	-22.72	0
-172.8	-40.86	-62.67	-14	-26.86	0
-172.7	-30.60	-52.40	-14	-16.60	0
-172.6	-26.02	-47.82	-14	-12.02	0
-172.5	-23.18	-44.98	-14	-9.18	0
-172.4	-21.21	-43.01	-14	-7.21	0
-172.3	-19.78	-41.59	-14	-5.78	0
-172.2	-18.74	-40.54	-14	-4.74	0
-172.1	-18.00	-39.80	-14	-4.00	0
-172.0	-17.51	-39.31	-14	-3.51	0
-171.9	-17.24	-39.04	-14	-3.24	0
-171.8	-17.18	-38.98	-14	-3.18	0
-171.7	-17.31	-39.12	-14	-3.31	0
-171.6	-17.65	-39.45	-14	-3.65	0
-171.5	-18.20	-40.00	-14	-4.20	0
-171.4	-18.99	-40.79	-14	-4.99	0
-171.3	-20.06	-41.86	-14	-6.06	0
-171.2	-21.47	-43.27	-14	-7.47	0
-171.1	-23.35	-45.15	-14	-9.35	0
-171.0	-25.93	-47.73	-14	-11.93	0
-170.9	-29.74	-51.55	-14	-15.74	0

-170.8	-36.44	-58.24	-14	-22.44	0
-170.7	-42.13	-63.93	-14	-28.13	0
-170.6	-32.95	-54.76	-14	-18.95	0
-170.5	-28.39	-50.20	-14	-14.39	0
-170.4	-25.65	-47.45	-14	-11.65	0
-170.3	-23.82	-45.63	-14	-9.82	0
-170.2	-22.58	-44.38	-14	-8.58	0
-170.1	-21.75	-43.55	-14	-7.75	0
-170.0	-21.26	-43.07	-14	-7.26	0
-169.9	-21.07	-42.88	-14	-7.07	0
-169.8	-21.17	-42.97	-14	-7.17	0
-169.7	-21.54	-43.35	-14	-7.54	0
-169.6	-22.24	-44.04	-14	-8.24	0
-169.5	-23.30	-45.11	-14	-9.30	0
-169.4	-24.85	-46.65	-14	-10.85	0
-169.3	-27.10	-48.90	-14	-13.10	0
-169.2	-30.55	-52.36	-14	-16.55	0
-169.1	-36.52	-58.33	-14	-22.52	0
-169.0	-40.20	-62.00	-14	-26.20	0
-168.9	-32.46	-54.26	-14	-18.46	0
-168.8	-27.82	-49.63	-14	-13.82	0
-168.7	-24.82	-46.62	-14	-10.82	0
-168.6	-22.68	-44.48	-14	-8.68	0
-168.5	-21.07	-42.88	-14	-7.07	0
-168.4	-19.85	-41.66	-14	-5.85	0
-168.3	-18.93	-40.73	-14	-4.93	0
-168.2	-18.24	-40.04	-14	-4.24	0
-168.1	-17.76	-39.56	-14	-3.76	0
-168.0	-17.47	-39.27	-14	-3.47	0
-167.9	-17.34	-39.15	-14	-3.34	0
-167.8	-17.39	-39.20	-14	-3.39	0
-167.7	-17.61	-39.41	-14	-3.61	0
-167.6	-17.99	-39.80	-14	-3.99	0
-167.5	-18.56	-40.37	-14	-4.56	0
-167.4	-19.34	-41.14	-14	-5.34	0
-167.3	-20.35	-42.15	-14	-6.35	0
-167.2	-21.64	-43.44	-14	-7.64	0
-167.1	-23.29	-45.09	-14	-9.29	0
-167.0	-25.43	-47.24	-14	-11.43	0
-166.9	-28.31	-50.12	-14	-14.31	0
-166.8	-32.37	-54.17	-14	-18.37	0
-166.7	-37.49	-59.30	-14	-23.49	0
-166.6	-36.41	-58.21	-14	-22.41	0
-166.5	-31.88	-53.68	-14	-17.88	0
-166.4	-28.77	-50.57	-14	-14.77	0
-166.3	-26.70	-48.50	-14	-12.70	0
-166.2	-25.29	-47.09	-14	-11.29	0
-166.1	-24.36	-46.16	-14	-10.36	0
-166.0	-23.80	-45.61	-14	-9.80	0
-165.9	-23.56	-45.36	-14	-9.56	0

-165.8	-23.60	-45.40	-14	-9.60	0
-165.7	-23.91	-45.72	-14	-9.91	0
-165.6	-24.50	-46.30	-14	-10.50	0
-165.5	-25.36	-47.17	-14	-11.36	0
-165.4	-26.47	-48.28	-14	-12.47	0
-165.3	-27.72	-49.52	-14	-13.72	0
-165.2	-28.75	-50.55	-14	-14.75	0
-165.1	-28.95	-50.75	-14	-14.95	0
-165.0	-28.04	-49.84	-14	-14.04	0
-164.9	-26.46	-48.26	-14	-12.46	0
-164.8	-24.77	-46.57	-14	-10.77	0
-164.7	-23.24	-45.05	-14	-9.24	0
-164.6	-21.94	-43.75	-14	-7.94	0
-164.5	-20.87	-42.67	-14	-6.87	0
-164.4	-20.01	-41.81	-14	-6.01	0
-164.3	-19.33	-41.14	-14	-5.33	0
-164.2	-18.84	-40.64	-14	-4.84	0
-164.1	-18.50	-40.31	-14	-4.50	0
-164.0	-18.33	-40.13	-14	-4.33	0
-163.9	-18.30	-40.11	-14	-4.30	0
-163.8	-18.43	-40.24	-14	-4.43	0
-163.7	-18.72	-40.52	-14	-4.72	0
-163.6	-19.16	-40.97	-14	-5.16	0
-163.5	-19.78	-41.59	-14	-5.78	0
-163.4	-20.59	-42.40	-14	-6.59	0
-163.3	-21.61	-43.41	-14	-7.61	0
-163.2	-22.85	-44.65	-14	-8.85	0
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-163.0	-25.95	-47.75	-14	-11.95	0
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-162.7	-28.06	-49.86	-14	-14.06	0
-162.6	-26.86	-48.67	-14	-12.86	0
-162.5	-25.42	-47.22	-14	-11.42	0
-162.4	-24.08	-45.89	-14	-10.08	0
-162.3	-22.97	-44.77	-14	-8.97	0
-162.2	-22.09	-43.89	-14	-8.09	0
-162.1	-21.42	-43.22	-14	-7.42	0
-162.0	-20.96	-42.76	-14	-6.96	0
-161.9	-20.67	-42.47	-14	-6.67	0
-161.8	-20.56	-42.36	-14	-6.56	0
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-161.5	-21.14	-42.94	-14	-7.14	0
-161.4	-21.61	-43.41	-14	-7.61	0
-161.3	-22.20	-44.01	-14	-8.20	0
-161.2	-22.88	-44.69	-14	-8.88	0
-161.1	-23.60	-45.40	-14	-9.60	0
-161.0	-24.26	-46.06	-14	-10.26	0
-160.9	-24.75	-46.55	-14	-10.75	0

-160.8	-24.95	-46.75	-14	-10.95	0
-160.7	-24.83	-46.63	-14	-10.83	0
-160.6	-24.44	-46.24	-14	-10.44	0
-160.5	-23.90	-45.70	-14	-9.90	0
-160.4	-23.32	-45.12	-14	-9.32	0
-160.3	-22.79	-44.59	-14	-8.79	0
-160.2	-22.35	-44.16	-14	-8.35	0
-160.1	-22.05	-43.85	-14	-8.05	0
-160.0	-21.89	-43.70	-14	-7.89	0
-159.9	-21.89	-43.70	-14	-7.89	0
-159.8	-22.06	-43.86	-14	-8.06	0
-159.7	-22.41	-44.21	-14	-8.41	0
-159.6	-22.95	-44.76	-14	-8.95	0
-159.5	-23.72	-45.52	-14	-9.72	0
-159.4	-24.71	-46.52	-14	-10.71	0
-159.3	-25.96	-47.76	-14	-11.96	0
-159.2	-27.41	-49.21	-14	-13.41	0
-159.1	-28.84	-50.65	-14	-14.84	0
-159.0	-29.69	-51.49	-14	-15.69	0
-158.9	-29.31	-51.11	-14	-15.31	0
-158.8	-27.88	-49.68	-14	-13.88	0
-158.7	-26.13	-47.93	-14	-12.13	0
-158.6	-24.47	-46.28	-14	-10.47	0
-158.5	-23.04	-44.85	-14	-9.04	0
-158.4	-21.85	-43.65	-14	-7.85	0
-158.3	-20.87	-42.67	-14	-6.87	0
-158.2	-20.08	-41.89	-14	-6.08	0
-158.1	-19.47	-41.27	-14	-5.47	0
-158.0	-19.01	-40.81	-14	-5.01	0
-157.9	-18.70	-40.50	-14	-4.70	0
-157.8	-18.52	-40.32	-14	-4.52	0
-157.7	-18.47	-40.28	-14	-4.47	0
-157.6	-18.56	-40.36	-14	-4.56	0
-157.5	-18.77	-40.57	-14	-4.77	0
-157.4	-19.11	-40.92	-14	-5.11	0
-157.3	-19.59	-41.40	-14	-5.59	0
-157.2	-20.22	-42.03	-14	-6.22	0
-157.1	-21.02	-42.82	-14	-7.02	0
-157.0	-21.99	-43.79	-14	-7.99	0
-156.9	-23.17	-44.97	-14	-9.17	0
-156.8	-24.59	-46.39	-14	-10.59	0
-156.7	-26.30	-48.10	-14	-12.30	0
-156.6	-28.35	-50.15	-14	-14.35	0
-156.5	-30.74	-52.54	-14	-16.74	0
-156.4	-33.24	-55.04	-14	-19.24	0
-156.3	-34.83	-56.64	-14	-20.83	0
-156.2	-34.43	-56.23	-14	-20.43	0
-156.1	-32.87	-54.67	-14	-18.87	0
-156.0	-31.32	-53.13	-14	-17.32	0
-155.9	-30.15	-51.95	-14	-16.15	0

-155.8	-29.37	-51.17	-14	-15.37	0
-155.7	-28.97	-50.77	-14	-14.97	0
-155.6	-28.91	-50.71	-14	-14.91	0
-155.5	-29.20	-51.01	-14	-15.20	0
-155.4	-29.87	-51.67	-14	-15.87	0
-155.3	-30.95	-52.75	-14	-16.95	0
-155.2	-32.51	-54.32	-14	-18.51	0
-155.1	-34.55	-56.35	-14	-20.55	0
-155.0	-36.46	-58.26	-14	-22.46	0
-154.9	-36.31	-58.11	-14	-22.31	0
-154.8	-33.82	-55.62	-14	-19.82	0
-154.7	-30.99	-52.79	-14	-16.99	0
-154.6	-28.58	-50.38	-14	-14.58	0
-154.5	-26.61	-48.41	-14	-12.61	0
-154.4	-25.01	-46.81	-14	-11.01	0
-154.3	-23.70	-45.51	-14	-9.70	0
-154.2	-22.64	-44.44	-14	-8.64	0
-154.1	-21.78	-43.58	-14	-7.78	0
-154.0	-21.10	-42.90	-14	-7.10	0
-153.9	-20.57	-42.37	-14	-6.57	0
-153.8	-20.19	-41.99	-14	-6.19	0
-153.7	-19.95	-41.75	-14	-5.95	0
-153.6	-19.84	-41.65	-14	-5.84	0
-153.5	-19.87	-41.67	-14	-5.87	0
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-90.7	-15.29	-37.09	-14	-1.29	0
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-90.4	-15.02	-36.83	-14	-1.02	0
-90.3	-14.95	-36.75	-14	-0.95	0
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4.5	16.98	-4.82	-1.330312844	18.31	0
4.6	16.49	-5.31	-1.568945792	18.06	0
4.7	15.93	-5.87	-1.802446448	17.73	0
4.8	15.30	-6.50	-2.031030934	17.33	0
4.9	14.61	-7.19	-2.254902001	16.87	0
5.0	13.86	-7.94	-2.474250108	16.34	0
5.1	13.06	-8.74	-2.689254402	15.75	0
5.2	12.22	-9.59	-2.900083591	15.12	0
5.3	11.34	-10.47	-3.10689674	14.44	0
5.4	10.44	-11.37	-3.309843996	13.75	0
5.5	9.54	-12.27	-3.509067237	13.05	0
5.6	8.65	-13.15	-3.704700675	12.36	0
5.7	7.82	-13.98	-3.896871392	11.72	0
5.8	7.06	-14.74	-4.085699839	11.14	0
5.9	6.40	-15.41	-4.271300291	10.67	0
6.0	5.85	-15.96	-4.45378126	10.30	0
6.1	5.42	-16.38	-4.633245875	10.06	0
6.2	5.11	-16.69	-4.809792237	9.92	0
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6.4	4.80	-17.01	-5.15449935	9.95	0
6.5	4.75	-17.05	-5.322833916	10.08	0
6.6	4.77	-17.04	-5.488598389	10.25	0
6.7	4.82	-16.98	-5.651870068	10.48	0
6.8	4.92	-16.88	-5.812722818	10.73	0
6.9	5.04	-16.76	-5.971227268	11.01	0
7.0	5.19	-16.61	-6.127451	11.32	0
7.1	5.36	-16.45	-6	11.36	0
7.2	5.53	-16.27	-6	11.53	0
7.3	5.71	-16.09	-6	11.71	0
7.4	5.89	-15.91	-6	11.89	0
7.5	6.06	-15.74	-6	12.06	0
7.6	6.22	-15.58	-6	12.22	0
7.7	6.36	-15.44	-6	12.36	0
7.8	6.48	-15.32	-6	12.48	0
7.9	6.58	-15.22	-6	12.58	0
8.0	6.64	-15.16	-6	12.64	0
8.1	6.68	-15.13	-6	12.68	0
8.2	6.68	-15.13	-6	12.68	0
8.3	6.64	-15.16	-6	12.64	0
8.4	6.57	-15.23	-6	12.57	0
8.5	6.46	-15.34	-6	12.46	0
8.6	6.31	-15.49	-6	12.31	0
8.7	6.12	-15.69	-6	12.12	0
8.8	5.88	-15.92	-6	11.88	0
8.9	5.61	-16.19	-6	11.61	0
9.0	5.29	-16.51	-6	11.29	0
9.1	4.93	-16.88	-6	10.93	0

9.2	4.52	-17.28	-6	10.52	0
9.3	4.08	-17.73	-6.212073714	10.29	0
9.4	3.59	-18.21	-6.32819634	9.92	0
9.5	3.08	-18.73	-6.443090132	9.52	0
9.6	2.54	-19.26	-6.556780826	9.10	0
9.7	1.99	-19.81	-6.669293357	8.66	0
9.8	1.46	-20.34	-6.780651892	8.24	0
9.9	0.96	-20.85	-6.890879865	7.85	0
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10.2	-0.09	-21.89	-7.215004294	7.13	0
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10.4	-0.24	-22.05	-7.425833482	7.18	0
10.5	-0.18	-21.98	-7.529732477	7.35	0
10.6	-0.05	-21.85	-7.632646632	7.59	0
10.7	0.12	-21.69	-7.734594442	7.85	0
10.8	0.28	-21.52	-7.835593887	8.12	0
10.9	0.44	-21.36	-7.935662449	8.37	0
11.0	0.56	-21.24	-8.034817129	8.60	0
11.1	0.64	-21.16	-8.13307447	8.78	0
11.2	0.68	-21.13	-8.230450567	8.91	0
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11.5	0.43	-21.37	-8.517446009	8.95	0
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13.3	-8.39	-30.19	-10.09629102	1.71	0
13.4	-9.19	-30.99	-10.17761996	0.99	0
13.5	-10.09	-31.90	-10.25834421	0.16	0
13.6	-11.12	-32.92	-10.33847271	-0.78	0
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14.4	-11.81	-33.62	-10.9590623	-0.85	0
14.5	-10.60	-32.40	-11.03420006	0.43	0
14.6	-9.52	-31.33	-11.10882139	1.58	0
14.7	-8.60	-30.40	-11.18293337	2.59	0
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17.1	-12.22	-34.02	-12.82490276	0.61	0
17.2	-12.37	-34.17	-12.88821117	0.52	0
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17.4	-12.39	-34.20	-13.01373121	0.62	0
17.5	-12.24	-34.04	-13.07595122	0.84	0
17.6	-11.97	-33.77	-13.1378167	1.17	0
17.7	-11.58	-33.38	-13.19933166	1.62	0
17.8	-11.09	-32.90	-13.26050006	2.17	0
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19.0	-5.94	-27.74	-13.96884002	8.03	0
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19.4	-6.03	-27.83	-14	7.97	0
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19.7	-6.71	-28.52	-14	7.29	0
19.8	-7.05	-28.85	-14	6.95	0
19.9	-7.43	-29.23	-14	6.57	0
20.0	-7.85	-29.65	-14	6.15	0
20.1	-8.31	-30.11	-14	5.69	0
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20.3	-9.30	-31.11	-14	4.70	0
20.4	-9.82	-31.63	-14	4.18	0
20.5	-10.35	-32.15	-14	3.65	0
20.6	-10.87	-32.68	-14	3.13	0
20.7	-11.39	-33.19	-14	2.61	0
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21.2	-13.46	-35.26	-14	0.54	0
21.3	-13.69	-35.49	-14	0.31	0
21.4	-13.81	-35.61	-14	0.19	0
21.5	-13.81	-35.61	-14	0.19	0
21.6	-13.68	-35.48	-14	0.32	0
21.7	-13.41	-35.22	-14	0.59	0
21.8	-13.04	-34.84	-14	0.96	0
21.9	-12.58	-34.39	-14	1.42	0
22.0	-12.07	-33.88	-14	1.93	0
22.1	-11.54	-33.34	-14	2.46	0
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22.3	-10.51	-32.31	-14	3.49	0
22.4	-10.05	-31.85	-14	3.95	0
22.5	-9.63	-31.43	-14	4.37	0
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22.8	-8.76	-30.56	-14	5.24	0
22.9	-8.61	-30.41	-14	5.39	0
23.0	-8.53	-30.33	-14	5.47	0
23.1	-8.52	-30.33	-14	5.48	0
23.2	-8.60	-30.40	-14	5.40	0
23.3	-8.75	-30.55	-14	5.25	0
23.4	-8.99	-30.79	-14	5.01	0
23.5	-9.31	-31.12	-14	4.69	0
23.6	-9.73	-31.54	-14	4.27	0
23.7	-10.25	-32.06	-14	3.75	0
23.8	-10.88	-32.68	-14	3.12	0
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24.0	-12.49	-34.29	-14	1.51	0
24.1	-13.50	-35.30	-14	0.50	0

24.2	-14.67	-36.47	-14	-0.67	0
24.3	-16.00	-37.80	-14	-2.00	0
24.4	-17.49	-39.30	-14	-3.49	0
24.5	-19.10	-40.90	-14	-5.10	0
24.6	-20.63	-42.43	-14	-6.63	0
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24.8	-21.96	-43.76	-14	-7.96	0
24.9	-21.33	-43.13	-14	-7.33	0
25.0	-20.25	-42.05	-14	-6.25	0
25.1	-19.11	-40.91	-14	-5.11	0
25.2	-18.07	-39.87	-14	-4.07	0
25.3	-17.19	-38.99	-14	-3.19	0
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25.5	-15.89	-37.70	-14	-1.89	0
25.6	-15.45	-37.25	-14	-1.45	0
25.7	-15.13	-36.93	-14	-1.13	0
25.8	-14.90	-36.71	-14	-0.90	0
25.9	-14.77	-36.58	-14	-0.77	0
26.0	-14.72	-36.52	-14	-0.72	0
26.1	-14.74	-36.54	-14	-0.74	0
26.2	-14.82	-36.62	-14	-0.82	0
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26.4	-15.14	-36.94	-14	-1.14	0
26.5	-15.37	-37.17	-14	-1.37	0
26.6	-15.63	-37.44	-14	-1.63	0
26.7	-15.93	-37.73	-14	-1.93	0
26.8	-16.26	-38.06	-14	-2.26	0
26.9	-16.60	-38.40	-14	-2.60	0
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27.1	-17.29	-39.09	-14	-3.29	0
27.2	-17.59	-39.39	-14	-3.59	0
27.3	-17.81	-39.61	-14	-3.81	0
27.4	-17.91	-39.72	-14	-3.91	0
27.5	-17.86	-39.66	-14	-3.86	0
27.6	-17.61	-39.41	-14	-3.61	0
27.7	-17.17	-38.98	-14	-3.17	0
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27.9	-15.86	-37.66	-14	-1.86	0
28.0	-15.07	-36.87	-14	-1.07	0
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28.4	-11.93	-33.73	-14	2.07	0
28.5	-11.24	-33.05	-14	2.76	0
28.6	-10.62	-32.42	-14	3.38	0
28.7	-10.05	-31.85	-14	3.95	0
28.8	-9.54	-31.34	-14	4.46	0
28.9	-9.09	-30.90	-14	4.91	0
29.0	-8.70	-30.51	-14	5.30	0
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29.5	-7.62	-29.42	-14	6.38	0
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31.6	-11.79	-33.59	-14	2.21	0
31.7	-11.80	-33.60	-14	2.20	0
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31.9	-11.77	-33.57	-14	2.23	0
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32.9	-12.32	-34.12	-14	1.68	0
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33.2	-12.94	-34.74	-14	1.06	0
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33.7	-14.51	-36.31	-14	-0.51	0
33.8	-14.93	-36.73	-14	-0.93	0
33.9	-15.40	-37.20	-14	-1.40	0
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34.6	-20.13	-41.93	-14	-6.13	0
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35.5	-17.58	-39.39	-14	-3.58	0
35.6	-16.78	-38.58	-14	-2.78	0
35.7	-16.05	-37.85	-14	-2.05	0
35.8	-15.40	-37.20	-14	-1.40	0
35.9	-14.83	-36.63	-14	-0.83	0
36.0	-14.34	-36.14	-14	-0.34	0
36.1	-13.93	-35.73	-14	0.07	0
36.2	-13.58	-35.38	-14	0.42	0
36.3	-13.30	-35.11	-14	0.70	0
36.4	-13.09	-34.89	-14	0.91	0
36.5	-12.93	-34.73	-14	1.07	0
36.6	-12.82	-34.62	-14	1.18	0
36.7	-12.76	-34.57	-14	1.24	0
36.8	-12.74	-34.55	-14	1.26	0
36.9	-12.76	-34.56	-14	1.24	0
37.0	-12.80	-34.61	-14	1.20	0
37.1	-12.86	-34.66	-14	1.14	0
37.2	-12.92	-34.72	-14	1.08	0
37.3	-12.97	-34.77	-14	1.03	0
37.4	-13.00	-34.80	-14	1.00	0
37.5	-12.99	-34.79	-14	1.01	0
37.6	-12.94	-34.74	-14	1.06	0
37.7	-12.83	-34.63	-14	1.17	0
37.8	-12.66	-34.47	-14	1.34	0
37.9	-12.44	-34.25	-14	1.56	0
38.0	-12.18	-33.98	-14	1.82	0
38.1	-11.87	-33.68	-14	2.13	0
38.2	-11.55	-33.35	-14	2.45	0
38.3	-11.20	-33.01	-14	2.80	0
38.4	-10.86	-32.66	-14	3.14	0
38.5	-10.53	-32.33	-14	3.47	0
38.6	-10.21	-32.01	-14	3.79	0
38.7	-9.91	-31.71	-14	4.09	0
38.8	-9.64	-31.44	-14	4.36	0
38.9	-9.40	-31.20	-14	4.60	0
39.0	-9.19	-30.99	-14	4.81	0
39.1	-9.01	-30.82	-14	4.99	0

39.2	-8.88	-30.68	-14	5.12	0
39.3	-8.77	-30.58	-14	5.23	0
39.4	-8.71	-30.51	-14	5.29	0
39.5	-8.68	-30.49	-14	5.32	0
39.6	-8.69	-30.49	-14	5.31	0
39.7	-8.74	-30.54	-14	5.26	0
39.8	-8.82	-30.62	-14	5.18	0
39.9	-8.94	-30.74	-14	5.06	0
40.0	-9.10	-30.90	-14	4.90	0
40.1	-9.29	-31.09	-14	4.71	0
40.2	-9.52	-31.32	-14	4.48	0
40.3	-9.78	-31.58	-14	4.22	0
40.4	-10.07	-31.88	-14	3.93	0
40.5	-10.40	-32.20	-14	3.60	0
40.6	-10.76	-32.56	-14	3.24	0
40.7	-11.15	-32.95	-14	2.85	0
40.8	-11.56	-33.36	-14	2.44	0
40.9	-12.00	-33.80	-14	2.00	0
41.0	-12.45	-34.25	-14	1.55	0
41.1	-12.92	-34.72	-14	1.08	0
41.2	-13.40	-35.20	-14	0.60	0
41.3	-13.87	-35.68	-14	0.13	0
41.4	-14.34	-36.15	-14	-0.34	0
41.5	-14.80	-36.60	-14	-0.80	0
41.6	-15.23	-37.03	-14	-1.23	0
41.7	-15.63	-37.43	-14	-1.63	0
41.8	-15.99	-37.80	-14	-1.99	0
41.9	-16.32	-38.12	-14	-2.32	0
42.0	-16.61	-38.41	-14	-2.61	0
42.1	-16.87	-38.67	-14	-2.87	0
42.2	-17.10	-38.90	-14	-3.10	0
42.3	-17.31	-39.11	-14	-3.31	0
42.4	-17.51	-39.31	-14	-3.51	0
42.5	-17.72	-39.52	-14	-3.72	0
42.6	-17.93	-39.74	-14	-3.93	0
42.7	-18.17	-39.98	-14	-4.17	0
42.8	-18.44	-40.25	-14	-4.44	0
42.9	-18.75	-40.55	-14	-4.75	0
43.0	-19.11	-40.91	-14	-5.11	0
43.1	-19.51	-41.32	-14	-5.51	0
43.2	-19.98	-41.78	-14	-5.98	0
43.3	-20.51	-42.31	-14	-6.51	0
43.4	-21.11	-42.91	-14	-7.11	0
43.5	-21.77	-43.57	-14	-7.77	0
43.6	-22.49	-44.29	-14	-8.49	0
43.7	-23.25	-45.05	-14	-9.25	0
43.8	-24.01	-45.81	-14	-10.01	0
43.9	-24.70	-46.50	-14	-10.70	0
44.0	-25.22	-47.02	-14	-11.22	0
44.1	-25.45	-47.26	-14	-11.45	0

44.2	-25.33	-47.13	-14	-11.33	0
44.3	-24.86	-46.66	-14	-10.86	0
44.4	-24.14	-45.94	-14	-10.14	0
44.5	-23.29	-45.09	-14	-9.29	0
44.6	-22.39	-44.20	-14	-8.39	0
44.7	-21.51	-43.31	-14	-7.51	0
44.8	-20.68	-42.48	-14	-6.68	0
44.9	-19.90	-41.71	-14	-5.90	0
45.0	-19.20	-41.00	-14	-5.20	0
45.1	-18.56	-40.36	-14	-4.56	0
45.2	-17.98	-39.78	-14	-3.98	0
45.3	-17.47	-39.27	-14	-3.47	0
45.4	-17.01	-38.81	-14	-3.01	0
45.5	-16.61	-38.41	-14	-2.61	0
45.6	-16.25	-38.05	-14	-2.25	0
45.7	-15.95	-37.75	-14	-1.95	0
45.8	-15.68	-37.49	-14	-1.68	0
45.9	-15.46	-37.27	-14	-1.46	0
46.0	-15.28	-37.08	-14	-1.28	0
46.1	-15.13	-36.94	-14	-1.13	0
46.2	-15.02	-36.83	-14	-1.02	0
46.3	-14.94	-36.75	-14	-0.94	0
46.4	-14.89	-36.69	-14	-0.89	0
46.5	-14.87	-36.67	-14	-0.87	0
46.6	-14.87	-36.67	-14	-0.87	0
46.7	-14.89	-36.69	-14	-0.89	0
46.8	-14.93	-36.73	-14	-0.93	0
46.9	-14.98	-36.78	-14	-0.98	0
47.0	-15.04	-36.85	-14	-1.04	0
47.1	-15.11	-36.92	-14	-1.11	0
47.2	-15.18	-36.99	-14	-1.18	0
47.3	-15.25	-37.06	-14	-1.25	0
47.4	-15.31	-37.11	-14	-1.31	0
47.5	-15.36	-37.16	-14	-1.36	0
47.6	-15.38	-37.18	-14	-1.38	0
47.7	-15.39	-37.19	-14	-1.39	0
47.8	-15.36	-37.17	-14	-1.36	0
47.9	-15.31	-37.12	-14	-1.31	0
48.0	-15.23	-37.04	-14	-1.23	0
48.1	-15.13	-36.93	-14	-1.13	0
48.2	-15.00	-36.80	-14	-1.00	0
48.3	-14.84	-36.64	-14	-0.84	0
48.4	-14.67	-36.47	-14	-0.67	0
48.5	-14.48	-36.28	-14	-0.48	0
48.6	-14.28	-36.09	-14	-0.28	0
48.7	-14.08	-35.89	-14	-0.08	0
48.8	-13.88	-35.68	-14	0.12	0
48.9	-13.68	-35.48	-14	0.32	0
49.0	-13.48	-35.29	-14	0.52	0
49.1	-13.30	-35.10	-14	0.70	0

49.2	-13.12	-34.93	-14	0.88	0
49.3	-12.96	-34.77	-14	1.04	0
49.4	-12.82	-34.62	-14	1.18	0
49.5	-12.69	-34.49	-14	1.31	0
49.6	-12.57	-34.38	-14	1.43	0
49.7	-12.48	-34.28	-14	1.52	0
49.8	-12.40	-34.21	-14	1.60	0
49.9	-12.35	-34.15	-14	1.65	0
50.0	-12.31	-34.12	-14	1.69	0
50.1	-12.30	-34.10	-14	1.70	0
50.2	-12.30	-34.10	-14	1.70	0
50.3	-12.33	-34.13	-14	1.67	0
50.4	-12.37	-34.18	-14	1.63	0
50.5	-12.44	-34.24	-14	1.56	0
50.6	-12.53	-34.33	-14	1.47	0
50.7	-12.63	-34.44	-14	1.37	0
50.8	-12.76	-34.57	-14	1.24	0
50.9	-12.91	-34.71	-14	1.09	0
51.0	-13.08	-34.88	-14	0.92	0
51.1	-13.27	-35.07	-14	0.73	0
51.2	-13.47	-35.28	-14	0.53	0
51.3	-13.70	-35.50	-14	0.30	0
51.4	-13.94	-35.75	-14	0.06	0
51.5	-14.20	-36.00	-14	-0.20	0
51.6	-14.48	-36.28	-14	-0.48	0
51.7	-14.76	-36.57	-14	-0.76	0
51.8	-15.06	-36.86	-14	-1.06	0
51.9	-15.36	-37.17	-14	-1.36	0
52.0	-15.67	-37.48	-14	-1.67	0
52.1	-15.98	-37.79	-14	-1.98	0
52.2	-16.29	-38.09	-14	-2.29	0
52.3	-16.58	-38.39	-14	-2.58	0
52.4	-16.86	-38.66	-14	-2.86	0
52.5	-17.12	-38.92	-14	-3.12	0
52.6	-17.35	-39.15	-14	-3.35	0
52.7	-17.55	-39.35	-14	-3.55	0
52.8	-17.70	-39.51	-14	-3.70	0
52.9	-17.82	-39.63	-14	-3.82	0
53.0	-17.90	-39.71	-14	-3.90	0
53.1	-17.94	-39.74	-14	-3.94	0
53.2	-17.94	-39.74	-14	-3.94	0
53.3	-17.91	-39.71	-14	-3.91	0
53.4	-17.84	-39.65	-14	-3.84	0
53.5	-17.76	-39.56	-14	-3.76	0
53.6	-17.65	-39.46	-14	-3.65	0
53.7	-17.54	-39.34	-14	-3.54	0
53.8	-17.42	-39.22	-14	-3.42	0
53.9	-17.29	-39.10	-14	-3.29	0
54.0	-17.17	-38.97	-14	-3.17	0
54.1	-17.05	-38.86	-14	-3.05	0

54.2	-16.94	-38.75	-14	-2.94	0
54.3	-16.84	-38.65	-14	-2.84	0
54.4	-16.75	-38.56	-14	-2.75	0
54.5	-16.68	-38.48	-14	-2.68	0
54.6	-16.62	-38.42	-14	-2.62	0
54.7	-16.57	-38.37	-14	-2.57	0
54.8	-16.53	-38.34	-14	-2.53	0
54.9	-16.52	-38.32	-14	-2.52	0
55.0	-16.51	-38.31	-14	-2.51	0
55.1	-16.52	-38.32	-14	-2.52	0
55.2	-16.54	-38.35	-14	-2.54	0
55.3	-16.58	-38.38	-14	-2.58	0
55.4	-16.63	-38.43	-14	-2.63	0
55.5	-16.70	-38.50	-14	-2.70	0
55.6	-16.77	-38.57	-14	-2.77	0
55.7	-16.86	-38.66	-14	-2.86	0
55.8	-16.96	-38.76	-14	-2.96	0
55.9	-17.07	-38.87	-14	-3.07	0
56.0	-17.19	-38.99	-14	-3.19	0
56.1	-17.32	-39.12	-14	-3.32	0
56.2	-17.45	-39.26	-14	-3.45	0
56.3	-17.60	-39.40	-14	-3.60	0
56.4	-17.75	-39.55	-14	-3.75	0
56.5	-17.90	-39.71	-14	-3.90	0
56.6	-18.06	-39.87	-14	-4.06	0
56.7	-18.23	-40.03	-14	-4.23	0
56.8	-18.39	-40.19	-14	-4.39	0
56.9	-18.55	-40.36	-14	-4.55	0
57.0	-18.71	-40.52	-14	-4.71	0
57.1	-18.87	-40.67	-14	-4.87	0
57.2	-19.02	-40.82	-14	-5.02	0
57.3	-19.15	-40.96	-14	-5.15	0
57.4	-19.28	-41.08	-14	-5.28	0
57.5	-19.38	-41.19	-14	-5.38	0
57.6	-19.47	-41.27	-14	-5.47	0
57.7	-19.53	-41.33	-14	-5.53	0
57.8	-19.56	-41.37	-14	-5.56	0
57.9	-19.57	-41.37	-14	-5.57	0
58.0	-19.54	-41.34	-14	-5.54	0
58.1	-19.48	-41.28	-14	-5.48	0
58.2	-19.38	-41.18	-14	-5.38	0
58.3	-19.25	-41.05	-14	-5.25	0
58.4	-19.09	-40.89	-14	-5.09	0
58.5	-18.90	-40.70	-14	-4.90	0
58.6	-18.68	-40.48	-14	-4.68	0
58.7	-18.44	-40.24	-14	-4.44	0
58.8	-18.18	-39.98	-14	-4.18	0
58.9	-17.91	-39.71	-14	-3.91	0
59.0	-17.62	-39.42	-14	-3.62	0
59.1	-17.32	-39.13	-14	-3.32	0

59.2	-17.02	-38.83	-14	-3.02	0
59.3	-16.72	-38.52	-14	-2.72	0
59.4	-16.42	-38.22	-14	-2.42	0
59.5	-16.12	-37.92	-14	-2.12	0
59.6	-15.83	-37.63	-14	-1.83	0
59.7	-15.54	-37.34	-14	-1.54	0
59.8	-15.26	-37.06	-14	-1.26	0
59.9	-14.99	-36.79	-14	-0.99	0
60.0	-14.73	-36.53	-14	-0.73	0
60.1	-14.47	-36.28	-14	-0.47	0
60.2	-14.23	-36.04	-14	-0.23	0
60.3	-14.00	-35.81	-14	0.00	0
60.4	-13.78	-35.59	-14	0.22	0
60.5	-13.58	-35.38	-14	0.42	0
60.6	-13.38	-35.18	-14	0.62	0
60.7	-13.20	-35.00	-14	0.80	0
60.8	-13.02	-34.83	-14	0.98	0
60.9	-12.86	-34.67	-14	1.14	0
61.0	-12.71	-34.52	-14	1.29	0
61.1	-12.57	-34.38	-14	1.43	0
61.2	-12.45	-34.25	-14	1.55	0
61.3	-12.33	-34.13	-14	1.67	0
61.4	-12.23	-34.03	-14	1.77	0
61.5	-12.13	-33.93	-14	1.87	0
61.6	-12.05	-33.85	-14	1.95	0
61.7	-11.97	-33.77	-14	2.03	0
61.8	-11.91	-33.71	-14	2.09	0
61.9	-11.85	-33.65	-14	2.15	0
62.0	-11.80	-33.61	-14	2.20	0
62.1	-11.76	-33.57	-14	2.24	0
62.2	-11.74	-33.54	-14	2.26	0
62.3	-11.71	-33.52	-14	2.29	0
62.4	-11.70	-33.50	-14	2.30	0
62.5	-11.69	-33.50	-14	2.31	0
62.6	-11.69	-33.50	-14	2.31	0
62.7	-11.70	-33.50	-14	2.30	0
62.8	-11.71	-33.51	-14	2.29	0
62.9	-11.73	-33.53	-14	2.27	0
63.0	-11.75	-33.55	-14	2.25	0
63.1	-11.78	-33.58	-14	2.22	0
63.2	-11.81	-33.61	-14	2.19	0
63.3	-11.84	-33.64	-14	2.16	0
63.4	-11.88	-33.68	-14	2.12	0
63.5	-11.91	-33.72	-14	2.09	0
63.6	-11.95	-33.76	-14	2.05	0
63.7	-11.99	-33.80	-14	2.01	0
63.8	-12.03	-33.84	-14	1.97	0
63.9	-12.07	-33.88	-14	1.93	0
64.0	-12.11	-33.92	-14	1.89	0
64.1	-12.15	-33.95	-14	1.85	0

64.2	-12.19	-33.99	-14	1.81	0
64.3	-12.22	-34.02	-14	1.78	0
64.4	-12.25	-34.05	-14	1.75	0
64.5	-12.28	-34.08	-14	1.72	0
64.6	-12.30	-34.10	-14	1.70	0
64.7	-12.32	-34.12	-14	1.68	0
64.8	-12.33	-34.14	-14	1.67	0
64.9	-12.35	-34.15	-14	1.65	0
65.0	-12.35	-34.16	-14	1.65	0
65.1	-12.35	-34.16	-14	1.65	0
65.2	-12.35	-34.16	-14	1.65	0
65.3	-12.35	-34.15	-14	1.65	0
65.4	-12.34	-34.14	-14	1.66	0
65.5	-12.33	-34.13	-14	1.67	0
65.6	-12.31	-34.11	-14	1.69	0
65.7	-12.29	-34.09	-14	1.71	0
65.8	-12.27	-34.07	-14	1.73	0
65.9	-12.25	-34.05	-14	1.75	0
66.0	-12.22	-34.03	-14	1.78	0
66.1	-12.20	-34.00	-14	1.80	0
66.2	-12.17	-33.97	-14	1.83	0
66.3	-12.14	-33.95	-14	1.86	0
66.4	-12.12	-33.92	-14	1.88	0
66.5	-12.09	-33.89	-14	1.91	0
66.6	-12.07	-33.87	-14	1.93	0
66.7	-12.04	-33.85	-14	1.96	0
66.8	-12.02	-33.82	-14	1.98	0
66.9	-12.00	-33.80	-14	2.00	0
67.0	-11.98	-33.79	-14	2.02	0
67.1	-11.97	-33.77	-14	2.03	0
67.2	-11.95	-33.76	-14	2.05	0
67.3	-11.94	-33.75	-14	2.06	0
67.4	-11.93	-33.74	-14	2.07	0
67.5	-11.93	-33.73	-14	2.07	0
67.6	-11.93	-33.73	-14	2.07	0
67.7	-11.93	-33.73	-14	2.07	0
67.8	-11.93	-33.73	-14	2.07	0
67.9	-11.94	-33.74	-14	2.06	0
68.0	-11.94	-33.75	-14	2.06	0
68.1	-11.95	-33.76	-14	2.05	0
68.2	-11.97	-33.77	-14	2.03	0
68.3	-11.98	-33.78	-14	2.02	0
68.4	-12.00	-33.80	-14	2.00	0
68.5	-12.01	-33.82	-14	1.99	0
68.6	-12.03	-33.84	-14	1.97	0
68.7	-12.05	-33.86	-14	1.95	0
68.8	-12.07	-33.87	-14	1.93	0
68.9	-12.09	-33.89	-14	1.91	0
69.0	-12.11	-33.91	-14	1.89	0
69.1	-12.13	-33.93	-14	1.87	0

69.2	-12.15	-33.95	-14	1.85	0
69.3	-12.17	-33.97	-14	1.83	0
69.4	-12.18	-33.98	-14	1.82	0
69.5	-12.19	-34.00	-14	1.81	0
69.6	-12.21	-34.01	-14	1.79	0
69.7	-12.22	-34.02	-14	1.78	0
69.8	-12.22	-34.02	-14	1.78	0
69.9	-12.23	-34.03	-14	1.77	0
70.0	-12.23	-34.03	-14	1.77	0
70.1	-12.23	-34.03	-14	1.77	0
70.2	-12.22	-34.02	-14	1.78	0
70.3	-12.21	-34.02	-14	1.79	0
70.4	-12.20	-34.00	-14	1.80	0
70.5	-12.19	-33.99	-14	1.81	0
70.6	-12.17	-33.97	-14	1.83	0
70.7	-12.15	-33.95	-14	1.85	0
70.8	-12.13	-33.93	-14	1.87	0
70.9	-12.10	-33.91	-14	1.90	0
71.0	-12.08	-33.88	-14	1.92	0
71.1	-12.05	-33.85	-14	1.95	0
71.2	-12.02	-33.82	-14	1.98	0
71.3	-11.99	-33.79	-14	2.01	0
71.4	-11.95	-33.76	-14	2.05	0
71.5	-11.92	-33.72	-14	2.08	0
71.6	-11.89	-33.69	-14	2.11	0
71.7	-11.85	-33.65	-14	2.15	0
71.8	-11.81	-33.62	-14	2.19	0
71.9	-11.78	-33.58	-14	2.22	0
72.0	-11.74	-33.55	-14	2.26	0
72.1	-11.71	-33.51	-14	2.29	0
72.2	-11.67	-33.48	-14	2.33	0
72.3	-11.64	-33.44	-14	2.36	0
72.4	-11.61	-33.41	-14	2.39	0
72.5	-11.58	-33.38	-14	2.42	0
72.6	-11.55	-33.35	-14	2.45	0
72.7	-11.52	-33.32	-14	2.48	0
72.8	-11.49	-33.29	-14	2.51	0
72.9	-11.46	-33.26	-14	2.54	0
73.0	-11.44	-33.24	-14	2.56	0
73.1	-11.41	-33.22	-14	2.59	0
73.2	-11.39	-33.19	-14	2.61	0
73.3	-11.37	-33.17	-14	2.63	0
73.4	-11.35	-33.15	-14	2.65	0
73.5	-11.33	-33.13	-14	2.67	0
73.6	-11.31	-33.12	-14	2.69	0
73.7	-11.30	-33.10	-14	2.70	0
73.8	-11.29	-33.09	-14	2.71	0
73.9	-11.27	-33.08	-14	2.73	0
74.0	-11.26	-33.07	-14	2.74	0
74.1	-11.25	-33.06	-14	2.75	0

74.2	-11.24	-33.05	-14	2.76	0
74.3	-11.24	-33.04	-14	2.76	0
74.4	-11.23	-33.03	-14	2.77	0
74.5	-11.23	-33.03	-14	2.77	0
74.6	-11.22	-33.02	-14	2.78	0
74.7	-11.22	-33.02	-14	2.78	0
74.8	-11.22	-33.02	-14	2.78	0
74.9	-11.21	-33.02	-14	2.79	0
75.0	-11.21	-33.02	-14	2.79	0
75.1	-11.21	-33.02	-14	2.79	0
75.2	-11.22	-33.02	-14	2.78	0
75.3	-11.22	-33.02	-14	2.78	0
75.4	-11.22	-33.02	-14	2.78	0
75.5	-11.22	-33.03	-14	2.78	0
75.6	-11.23	-33.03	-14	2.77	0
75.7	-11.23	-33.03	-14	2.77	0
75.8	-11.23	-33.04	-14	2.77	0
75.9	-11.24	-33.04	-14	2.76	0
76.0	-11.24	-33.05	-14	2.76	0
76.1	-11.25	-33.05	-14	2.75	0
76.2	-11.26	-33.06	-14	2.74	0
76.3	-11.26	-33.06	-14	2.74	0
76.4	-11.27	-33.07	-14	2.73	0
76.5	-11.27	-33.08	-14	2.73	0
76.6	-11.28	-33.08	-14	2.72	0
76.7	-11.29	-33.09	-14	2.71	0
76.8	-11.29	-33.09	-14	2.71	0
76.9	-11.30	-33.10	-14	2.70	0
77.0	-11.30	-33.11	-14	2.70	0
77.1	-11.31	-33.11	-14	2.69	0
77.2	-11.31	-33.11	-14	2.69	0
77.3	-11.32	-33.12	-14	2.68	0
77.4	-11.32	-33.12	-14	2.68	0
77.5	-11.32	-33.13	-14	2.68	0
77.6	-11.32	-33.13	-14	2.68	0
77.7	-11.33	-33.13	-14	2.67	0
77.8	-11.33	-33.13	-14	2.67	0
77.9	-11.33	-33.13	-14	2.67	0
78.0	-11.32	-33.13	-14	2.68	0
78.1	-11.32	-33.13	-14	2.68	0
78.2	-11.32	-33.12	-14	2.68	0
78.3	-11.31	-33.12	-14	2.69	0
78.4	-11.31	-33.11	-14	2.69	0
78.5	-11.30	-33.11	-14	2.70	0
78.6	-11.30	-33.10	-14	2.70	0
78.7	-11.29	-33.09	-14	2.71	0
78.8	-11.28	-33.08	-14	2.72	0
78.9	-11.27	-33.07	-14	2.73	0
79.0	-11.26	-33.06	-14	2.74	0
79.1	-11.24	-33.05	-14	2.76	0

79.2	-11.23	-33.03	-14	2.77	0
79.3	-11.22	-33.02	-14	2.78	0
79.4	-11.20	-33.01	-14	2.80	0
79.5	-11.19	-32.99	-14	2.81	0
79.6	-11.17	-32.98	-14	2.83	0
79.7	-11.16	-32.96	-14	2.84	0
79.8	-11.14	-32.94	-14	2.86	0
79.9	-11.13	-32.93	-14	2.87	0
80.0	-11.11	-32.91	-14	2.89	0
80.1	-11.10	-32.90	-14	2.90	0
80.2	-11.08	-32.89	-14	2.92	0
80.3	-11.07	-32.87	-14	2.93	0
80.4	-11.06	-32.86	-14	2.94	0
80.5	-11.04	-32.85	-14	2.96	0
80.6	-11.03	-32.84	-14	2.97	0
80.7	-11.02	-32.83	-14	2.98	0
80.8	-11.02	-32.82	-14	2.98	0
80.9	-11.01	-32.81	-14	2.99	0
81.0	-11.01	-32.81	-14	2.99	0
81.1	-11.00	-32.81	-14	3.00	0
81.2	-11.00	-32.81	-14	3.00	0
81.3	-11.01	-32.81	-14	2.99	0
81.4	-11.01	-32.81	-14	2.99	0
81.5	-11.02	-32.82	-14	2.98	0
81.6	-11.03	-32.83	-14	2.97	0
81.7	-11.04	-32.85	-14	2.96	0
81.8	-11.06	-32.86	-14	2.94	0
81.9	-11.08	-32.88	-14	2.92	0
82.0	-11.10	-32.90	-14	2.90	0
82.1	-11.12	-32.93	-14	2.88	0
82.2	-11.15	-32.96	-14	2.85	0
82.3	-11.18	-32.99	-14	2.82	0
82.4	-11.22	-33.02	-14	2.78	0
82.5	-11.26	-33.06	-14	2.74	0
82.6	-11.30	-33.10	-14	2.70	0
82.7	-11.35	-33.15	-14	2.65	0
82.8	-11.40	-33.20	-14	2.60	0
82.9	-11.45	-33.25	-14	2.55	0
83.0	-11.51	-33.31	-14	2.49	0
83.1	-11.57	-33.37	-14	2.43	0
83.2	-11.63	-33.43	-14	2.37	0
83.3	-11.70	-33.50	-14	2.30	0
83.4	-11.77	-33.57	-14	2.23	0
83.5	-11.84	-33.65	-14	2.16	0
83.6	-11.92	-33.73	-14	2.08	0
83.7	-12.00	-33.81	-14	2.00	0
83.8	-12.09	-33.89	-14	1.91	0
83.9	-12.18	-33.98	-14	1.82	0
84.0	-12.27	-34.07	-14	1.73	0
84.1	-12.36	-34.16	-14	1.64	0

84.2	-12.46	-34.26	-14	1.54	0
84.3	-12.55	-34.36	-14	1.45	0
84.4	-12.66	-34.46	-14	1.34	0
84.5	-12.76	-34.56	-14	1.24	0
84.6	-12.86	-34.67	-14	1.14	0
84.7	-12.97	-34.77	-14	1.03	0
84.8	-13.07	-34.88	-14	0.93	0
84.9	-13.18	-34.98	-14	0.82	0
85.0	-13.29	-35.09	-14	0.71	0
85.1	-13.40	-35.20	-14	0.60	0
85.2	-13.50	-35.31	-14	0.50	0
85.3	-13.61	-35.41	-14	0.39	0
85.4	-13.72	-35.52	-14	0.28	0
85.5	-13.82	-35.62	-14	0.18	0
85.6	-13.92	-35.72	-14	0.08	0
85.7	-14.02	-35.82	-14	-0.02	0
85.8	-14.11	-35.92	-14	-0.11	0
85.9	-14.21	-36.01	-14	-0.21	0
86.0	-14.30	-36.10	-14	-0.30	0
86.1	-14.38	-36.18	-14	-0.38	0
86.2	-14.46	-36.26	-14	-0.46	0
86.3	-14.53	-36.34	-14	-0.53	0
86.4	-14.60	-36.40	-14	-0.60	0
86.5	-14.67	-36.47	-14	-0.67	0
86.6	-14.72	-36.53	-14	-0.72	0
86.7	-14.78	-36.58	-14	-0.78	0
86.8	-14.82	-36.62	-14	-0.82	0
86.9	-14.86	-36.67	-14	-0.86	0
87.0	-14.90	-36.70	-14	-0.90	0
87.1	-14.93	-36.73	-14	-0.93	0
87.2	-14.95	-36.75	-14	-0.95	0
87.3	-14.97	-36.77	-14	-0.97	0
87.4	-14.99	-36.79	-14	-0.99	0
87.5	-15.00	-36.80	-14	-1.00	0
87.6	-15.00	-36.81	-14	-1.00	0
87.7	-15.01	-36.81	-14	-1.01	0
87.8	-15.01	-36.81	-14	-1.01	0
87.9	-15.00	-36.81	-14	-1.00	0
88.0	-15.00	-36.80	-14	-1.00	0
88.1	-14.99	-36.80	-14	-0.99	0
88.2	-14.99	-36.79	-14	-0.99	0
88.3	-14.98	-36.78	-14	-0.98	0
88.4	-14.97	-36.78	-14	-0.97	0
88.5	-14.97	-36.77	-14	-0.97	0
88.6	-14.96	-36.77	-14	-0.96	0
88.7	-14.96	-36.76	-14	-0.96	0
88.8	-14.96	-36.76	-14	-0.96	0
88.9	-14.96	-36.77	-14	-0.96	0
89.0	-14.97	-36.77	-14	-0.97	0
89.1	-14.97	-36.78	-14	-0.97	0

89.2	-14.99	-36.79	-14	-0.99	0
89.3	-15.00	-36.80	-14	-1.00	0
89.4	-15.02	-36.82	-14	-1.02	0
89.5	-15.05	-36.85	-14	-1.05	0
89.6	-15.08	-36.88	-14	-1.08	0
89.7	-15.11	-36.91	-14	-1.11	0
89.8	-15.15	-36.95	-14	-1.15	0
89.9	-15.20	-37.00	-14	-1.20	0
90.0	-15.25	-37.05	-14	-1.25	0
90.1	-15.31	-37.11	-14	-1.31	0
90.2	-15.37	-37.18	-14	-1.37	0
90.3	-15.44	-37.25	-14	-1.44	0
90.4	-15.52	-37.32	-14	-1.52	0
90.5	-15.61	-37.41	-14	-1.61	0
90.6	-15.70	-37.50	-14	-1.70	0
90.7	-15.79	-37.60	-14	-1.79	0
90.8	-15.90	-37.70	-14	-1.90	0
90.9	-16.01	-37.81	-14	-2.01	0
91.0	-16.13	-37.93	-14	-2.13	0
91.1	-16.26	-38.06	-14	-2.26	0
91.2	-16.39	-38.19	-14	-2.39	0
91.3	-16.53	-38.33	-14	-2.53	0
91.4	-16.67	-38.48	-14	-2.67	0
91.5	-16.82	-38.63	-14	-2.82	0
91.6	-16.98	-38.78	-14	-2.98	0
91.7	-17.15	-38.95	-14	-3.15	0
91.8	-17.31	-39.12	-14	-3.31	0
91.9	-17.49	-39.29	-14	-3.49	0
92.0	-17.66	-39.47	-14	-3.66	0
92.1	-17.84	-39.65	-14	-3.84	0
92.2	-18.03	-39.83	-14	-4.03	0
92.3	-18.21	-40.01	-14	-4.21	0
92.4	-18.39	-40.20	-14	-4.39	0
92.5	-18.58	-40.38	-14	-4.58	0
92.6	-18.75	-40.56	-14	-4.75	0
92.7	-18.93	-40.73	-14	-4.93	0
92.8	-19.10	-40.90	-14	-5.10	0
92.9	-19.26	-41.06	-14	-5.26	0
93.0	-19.41	-41.21	-14	-5.41	0
93.1	-19.55	-41.35	-14	-5.55	0
93.2	-19.68	-41.48	-14	-5.68	0
93.3	-19.79	-41.59	-14	-5.79	0
93.4	-19.88	-41.68	-14	-5.88	0
93.5	-19.96	-41.76	-14	-5.96	0
93.6	-20.01	-41.82	-14	-6.01	0
93.7	-20.05	-41.86	-14	-6.05	0
93.8	-20.07	-41.87	-14	-6.07	0
93.9	-20.07	-41.88	-14	-6.07	0
94.0	-20.05	-41.86	-14	-6.05	0
94.1	-20.02	-41.82	-14	-6.02	0

94.2	-19.97	-41.77	-14	-5.97	0
94.3	-19.91	-41.71	-14	-5.91	0
94.4	-19.83	-41.63	-14	-5.83	0
94.5	-19.74	-41.55	-14	-5.74	0
94.6	-19.65	-41.45	-14	-5.65	0
94.7	-19.55	-41.35	-14	-5.55	0
94.8	-19.45	-41.25	-14	-5.45	0
94.9	-19.34	-41.14	-14	-5.34	0
95.0	-19.23	-41.04	-14	-5.23	0
95.1	-19.13	-40.93	-14	-5.13	0
95.2	-19.02	-40.83	-14	-5.02	0
95.3	-18.92	-40.73	-14	-4.92	0
95.4	-18.83	-40.63	-14	-4.83	0
95.5	-18.74	-40.54	-14	-4.74	0
95.6	-18.66	-40.46	-14	-4.66	0
95.7	-18.59	-40.39	-14	-4.59	0
95.8	-18.52	-40.33	-14	-4.52	0
95.9	-18.47	-40.27	-14	-4.47	0
96.0	-18.42	-40.22	-14	-4.42	0
96.1	-18.39	-40.19	-14	-4.39	0
96.2	-18.36	-40.16	-14	-4.36	0
96.3	-18.35	-40.15	-14	-4.35	0
96.4	-18.35	-40.15	-14	-4.35	0
96.5	-18.36	-40.16	-14	-4.36	0
96.6	-18.38	-40.18	-14	-4.38	0
96.7	-18.42	-40.22	-14	-4.42	0
96.8	-18.47	-40.27	-14	-4.47	0
96.9	-18.53	-40.33	-14	-4.53	0
97.0	-18.60	-40.41	-14	-4.60	0
97.1	-18.70	-40.50	-14	-4.70	0
97.2	-18.80	-40.60	-14	-4.80	0
97.3	-18.92	-40.72	-14	-4.92	0
97.4	-19.05	-40.86	-14	-5.05	0
97.5	-19.20	-41.01	-14	-5.20	0
97.6	-19.37	-41.17	-14	-5.37	0
97.7	-19.55	-41.35	-14	-5.55	0
97.8	-19.75	-41.55	-14	-5.75	0
97.9	-19.96	-41.76	-14	-5.96	0
98.0	-20.19	-41.99	-14	-6.19	0
98.1	-20.44	-42.24	-14	-6.44	0
98.2	-20.70	-42.50	-14	-6.70	0
98.3	-20.98	-42.78	-14	-6.98	0
98.4	-21.27	-43.07	-14	-7.27	0
98.5	-21.58	-43.38	-14	-7.58	0
98.6	-21.90	-43.70	-14	-7.90	0
98.7	-22.23	-44.03	-14	-8.23	0
98.8	-22.57	-44.37	-14	-8.57	0
98.9	-22.91	-44.71	-14	-8.91	0
99.0	-23.25	-45.06	-14	-9.25	0
99.1	-23.59	-45.40	-14	-9.59	0

99.2	-23.92	-45.72	-14	-9.92	0
99.3	-24.23	-46.03	-14	-10.23	0
99.4	-24.50	-46.31	-14	-10.50	0
99.5	-24.74	-46.54	-14	-10.74	0
99.6	-24.93	-46.73	-14	-10.93	0
99.7	-25.06	-46.87	-14	-11.06	0
99.8	-25.13	-46.94	-14	-11.13	0
99.9	-25.14	-46.94	-14	-11.14	0
100.0	-25.08	-46.88	-14	-11.08	0
100.1	-24.96	-46.77	-14	-10.96	0
100.2	-24.79	-46.60	-14	-10.79	0
100.3	-24.58	-46.38	-14	-10.58	0
100.4	-24.33	-46.13	-14	-10.33	0
100.5	-24.06	-45.86	-14	-10.06	0
100.6	-23.77	-45.58	-14	-9.77	0
100.7	-23.48	-45.28	-14	-9.48	0
100.8	-23.18	-44.99	-14	-9.18	0
100.9	-22.89	-44.70	-14	-8.89	0
101.0	-22.61	-44.41	-14	-8.61	0
101.1	-22.34	-44.14	-14	-8.34	0
101.2	-22.08	-43.89	-14	-8.08	0
101.3	-21.85	-43.65	-14	-7.85	0
101.4	-21.62	-43.43	-14	-7.62	0
101.5	-21.42	-43.22	-14	-7.42	0
101.6	-21.24	-43.04	-14	-7.24	0
101.7	-21.07	-42.87	-14	-7.07	0
101.8	-20.93	-42.73	-14	-6.93	0
101.9	-20.80	-42.61	-14	-6.80	0
102.0	-20.70	-42.51	-14	-6.70	0
102.1	-20.62	-42.42	-14	-6.62	0
102.2	-20.56	-42.36	-14	-6.56	0
102.3	-20.52	-42.33	-14	-6.52	0
102.4	-20.51	-42.31	-14	-6.51	0
102.5	-20.51	-42.32	-14	-6.51	0
102.6	-20.54	-42.35	-14	-6.54	0
102.7	-20.59	-42.40	-14	-6.59	0
102.8	-20.67	-42.47	-14	-6.67	0
102.9	-20.77	-42.57	-14	-6.77	0
103.0	-20.89	-42.69	-14	-6.89	0
103.1	-21.04	-42.84	-14	-7.04	0
103.2	-21.21	-43.01	-14	-7.21	0
103.3	-21.41	-43.21	-14	-7.41	0
103.4	-21.63	-43.44	-14	-7.63	0
103.5	-21.89	-43.69	-14	-7.89	0
103.6	-22.17	-43.98	-14	-8.17	0
103.7	-22.49	-44.29	-14	-8.49	0
103.8	-22.83	-44.64	-14	-8.83	0
103.9	-23.21	-45.01	-14	-9.21	0
104.0	-23.62	-45.42	-14	-9.62	0
104.1	-24.06	-45.87	-14	-10.06	0

104.2	-24.54	-46.34	-14	-10.54	0
104.3	-25.05	-46.85	-14	-11.05	0
104.4	-25.58	-47.39	-14	-11.58	0
104.5	-26.14	-47.95	-14	-12.14	0
104.6	-26.71	-48.52	-14	-12.71	0
104.7	-27.28	-49.09	-14	-13.28	0
104.8	-27.83	-49.63	-14	-13.83	0
104.9	-28.32	-50.12	-14	-14.32	0
105.0	-28.71	-50.52	-14	-14.71	0
105.1	-28.98	-50.78	-14	-14.98	0
105.2	-29.08	-50.89	-14	-15.08	0
105.3	-29.02	-50.82	-14	-15.02	0
105.4	-28.78	-50.59	-14	-14.78	0
105.5	-28.42	-50.22	-14	-14.42	0
105.6	-27.95	-49.75	-14	-13.95	0
105.7	-27.42	-49.22	-14	-13.42	0
105.8	-26.86	-48.66	-14	-12.86	0
105.9	-26.30	-48.10	-14	-12.30	0
106.0	-25.75	-47.55	-14	-11.75	0
106.1	-25.22	-47.02	-14	-11.22	0
106.2	-24.71	-46.52	-14	-10.71	0
106.3	-24.25	-46.05	-14	-10.25	0
106.4	-23.81	-45.61	-14	-9.81	0
106.5	-23.41	-45.21	-14	-9.41	0
106.6	-23.05	-44.85	-14	-9.05	0
106.7	-22.72	-44.52	-14	-8.72	0
106.8	-22.42	-44.22	-14	-8.42	0
106.9	-22.16	-43.96	-14	-8.16	0
107.0	-21.92	-43.73	-14	-7.92	0
107.1	-21.72	-43.53	-14	-7.72	0
107.2	-21.55	-43.36	-14	-7.55	0
107.3	-21.41	-43.22	-14	-7.41	0
107.4	-21.30	-43.11	-14	-7.30	0
107.5	-21.22	-43.03	-14	-7.22	0
107.6	-21.17	-42.98	-14	-7.17	0
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107.9	-21.19	-43.00	-14	-7.19	0
108.0	-21.26	-43.06	-14	-7.26	0
108.1	-21.36	-43.16	-14	-7.36	0
108.2	-21.48	-43.28	-14	-7.48	0
108.3	-21.64	-43.44	-14	-7.64	0
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108.5	-22.05	-43.85	-14	-8.05	0
108.6	-22.31	-44.11	-14	-8.31	0
108.7	-22.60	-44.40	-14	-8.60	0
108.8	-22.92	-44.73	-14	-8.92	0
108.9	-23.29	-45.09	-14	-9.29	0
109.0	-23.70	-45.50	-14	-9.70	0
109.1	-24.15	-45.95	-14	-10.15	0

109.2	-24.64	-46.44	-14	-10.64	0
109.3	-25.18	-46.98	-14	-11.18	0
109.4	-25.76	-47.56	-14	-11.76	0
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109.6	-27.04	-48.84	-14	-13.04	0
109.7	-27.73	-49.53	-14	-13.73	0
109.8	-28.42	-50.23	-14	-14.42	0
109.9	-29.10	-50.90	-14	-15.10	0
110.0	-29.71	-51.51	-14	-15.71	0
110.1	-30.20	-52.00	-14	-16.20	0
110.2	-30.50	-52.31	-14	-16.50	0
110.3	-30.58	-52.38	-14	-16.58	0
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110.5	-30.04	-51.85	-14	-16.04	0
110.6	-29.52	-51.32	-14	-15.52	0
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110.8	-28.26	-50.06	-14	-14.26	0
110.9	-27.60	-49.41	-14	-13.60	0
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111.6	-24.04	-45.84	-14	-10.04	0
111.7	-23.70	-45.51	-14	-9.70	0
111.8	-23.41	-45.21	-14	-9.41	0
111.9	-23.16	-44.96	-14	-9.16	0
112.0	-22.95	-44.75	-14	-8.95	0
112.1	-22.77	-44.57	-14	-8.77	0
112.2	-22.63	-44.43	-14	-8.63	0
112.3	-22.53	-44.33	-14	-8.53	0
112.4	-22.46	-44.26	-14	-8.46	0
112.5	-22.42	-44.23	-14	-8.42	0
112.6	-22.42	-44.23	-14	-8.42	0
112.7	-22.46	-44.26	-14	-8.46	0
112.8	-22.53	-44.33	-14	-8.53	0
112.9	-22.63	-44.44	-14	-8.63	0
113.0	-22.77	-44.58	-14	-8.77	0
113.1	-22.95	-44.75	-14	-8.95	0
113.2	-23.16	-44.97	-14	-9.16	0
113.3	-23.42	-45.22	-14	-9.42	0
113.4	-23.71	-45.51	-14	-9.71	0
113.5	-24.05	-45.85	-14	-10.05	0
113.6	-24.42	-46.23	-14	-10.42	0
113.7	-24.85	-46.65	-14	-10.85	0
113.8	-25.32	-47.13	-14	-11.32	0
113.9	-25.85	-47.65	-14	-11.85	0
114.0	-26.43	-48.23	-14	-12.43	0
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114.2	-27.76	-49.56	-14	-13.76	0
114.3	-28.50	-50.31	-14	-14.50	0
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114.6	-30.95	-52.75	-14	-16.95	0
114.7	-31.71	-53.52	-14	-17.71	0
114.8	-32.34	-54.15	-14	-18.34	0
114.9	-32.74	-54.55	-14	-18.74	0
115.0	-32.83	-54.64	-14	-18.83	0
115.1	-32.61	-54.41	-14	-18.61	0
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115.4	-30.69	-52.50	-14	-16.69	0
115.5	-29.92	-51.72	-14	-15.92	0
115.6	-29.17	-50.97	-14	-15.17	0
115.7	-28.46	-50.27	-14	-14.46	0
115.8	-27.81	-49.61	-14	-13.81	0
115.9	-27.20	-49.01	-14	-13.20	0
116.0	-26.66	-48.46	-14	-12.66	0
116.1	-26.17	-47.97	-14	-12.17	0
116.2	-25.73	-47.53	-14	-11.73	0
116.3	-25.34	-47.14	-14	-11.34	0
116.4	-24.99	-46.80	-14	-10.99	0
116.5	-24.69	-46.50	-14	-10.69	0
116.6	-24.43	-46.24	-14	-10.43	0
116.7	-24.21	-46.02	-14	-10.21	0
116.8	-24.03	-45.84	-14	-10.03	0
116.9	-23.89	-45.69	-14	-9.89	0
117.0	-23.78	-45.58	-14	-9.78	0
117.1	-23.70	-45.50	-14	-9.70	0
117.2	-23.66	-45.46	-14	-9.66	0
117.3	-23.65	-45.45	-14	-9.65	0
117.4	-23.68	-45.48	-14	-9.68	0
117.5	-23.73	-45.53	-14	-9.73	0
117.6	-23.82	-45.62	-14	-9.82	0
117.7	-23.94	-45.75	-14	-9.94	0
117.8	-24.10	-45.90	-14	-10.10	0
117.9	-24.29	-46.09	-14	-10.29	0
118.0	-24.51	-46.31	-14	-10.51	0
118.1	-24.77	-46.57	-14	-10.77	0
118.2	-25.07	-46.87	-14	-11.07	0
118.3	-25.40	-47.21	-14	-11.40	0
118.4	-25.78	-47.58	-14	-11.78	0
118.5	-26.19	-47.99	-14	-12.19	0
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119.6	-32.05	-53.85	-14	-18.05	0
119.7	-32.10	-53.91	-14	-18.10	0
119.8	-31.93	-53.73	-14	-17.93	0
119.9	-31.56	-53.36	-14	-17.56	0
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121.6	-24.09	-45.89	-14	-10.09	0
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122.2	-24.27	-46.07	-14	-10.27	0
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122.5	-25.02	-46.82	-14	-11.02	0
122.6	-25.38	-47.18	-14	-11.38	0
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124.5	-29.29	-51.10	-14	-15.29	0
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125.0	-25.76	-47.57	-14	-11.76	0
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125.3	-24.68	-46.48	-14	-10.68	0
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125.5	-24.28	-46.09	-14	-10.28	0
125.6	-24.18	-45.98	-14	-10.18	0
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125.8	-24.14	-45.95	-14	-10.14	0
125.9	-24.21	-46.01	-14	-10.21	0
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126.8	-27.52	-49.32	-14	-13.52	0
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127.5	-32.21	-54.01	-14	-18.21	0
127.6	-32.36	-54.17	-14	-18.36	0
127.7	-32.25	-54.05	-14	-18.25	0
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127.9	-31.43	-53.24	-14	-17.43	0
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129.2	-27.63	-49.43	-14	-13.63	0
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131.3	-26.38	-48.18	-14	-12.38	0
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131.6	-26.80	-48.60	-14	-12.80	0
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132.5	-34.43	-56.23	-14	-20.43	0
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133.5	-27.20	-49.01	-14	-13.20	0
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133.7	-25.68	-47.48	-14	-11.68	0
133.8	-25.10	-46.90	-14	-11.10	0
133.9	-24.62	-46.42	-14	-10.62	0
134.0	-24.24	-46.05	-14	-10.24	0
134.1	-23.96	-45.76	-14	-9.96	0

134.2	-23.76	-45.57	-14	-9.76	0
134.3	-23.65	-45.45	-14	-9.65	0
134.4	-23.63	-45.43	-14	-9.63	0
134.5	-23.68	-45.49	-14	-9.68	0
134.6	-23.83	-45.63	-14	-9.83	0
134.7	-24.07	-45.87	-14	-10.07	0
134.8	-24.40	-46.20	-14	-10.40	0
134.9	-24.83	-46.63	-14	-10.83	0
135.0	-25.38	-47.18	-14	-11.38	0
135.1	-26.05	-47.85	-14	-12.05	0
135.2	-26.86	-48.66	-14	-12.86	0
135.3	-27.84	-49.64	-14	-13.84	0
135.4	-29.02	-50.83	-14	-15.02	0
135.5	-30.46	-52.26	-14	-16.46	0
135.6	-32.21	-54.02	-14	-18.21	0
135.7	-34.37	-56.17	-14	-20.37	0
135.8	-36.96	-58.76	-14	-22.96	0
135.9	-39.50	-61.31	-14	-25.50	0
136.0	-40.09	-61.89	-14	-26.09	0
136.1	-38.09	-59.89	-14	-24.09	0
136.2	-35.57	-57.37	-14	-21.57	0
136.3	-33.43	-55.23	-14	-19.43	0
136.4	-31.72	-53.52	-14	-17.72	0
136.5	-30.36	-52.17	-14	-16.36	0
136.6	-29.28	-51.08	-14	-15.28	0
136.7	-28.42	-50.22	-14	-14.42	0
136.8	-27.74	-49.54	-14	-13.74	0
136.9	-27.22	-49.02	-14	-13.22	0
137.0	-26.83	-48.64	-14	-12.83	0
137.1	-26.57	-48.37	-14	-12.57	0
137.2	-26.42	-48.22	-14	-12.42	0
137.3	-26.36	-48.17	-14	-12.36	0
137.4	-26.41	-48.21	-14	-12.41	0
137.5	-26.53	-48.34	-14	-12.53	0
137.6	-26.74	-48.54	-14	-12.74	0
137.7	-27.00	-48.81	-14	-13.00	0
137.8	-27.32	-49.12	-14	-13.32	0
137.9	-27.67	-49.47	-14	-13.67	0
138.0	-28.02	-49.82	-14	-14.02	0
138.1	-28.34	-50.14	-14	-14.34	0
138.2	-28.59	-50.39	-14	-14.59	0
138.3	-28.73	-50.53	-14	-14.73	0
138.4	-28.75	-50.55	-14	-14.75	0
138.5	-28.63	-50.44	-14	-14.63	0
138.6	-28.41	-50.21	-14	-14.41	0
138.7	-28.11	-49.92	-14	-14.11	0
138.8	-27.78	-49.58	-14	-13.78	0
138.9	-27.44	-49.24	-14	-13.44	0
139.0	-27.13	-48.93	-14	-13.13	0
139.1	-26.87	-48.67	-14	-12.87	0

139.2	-26.68	-48.49	-14	-12.68	0
139.3	-26.58	-48.38	-14	-12.58	0
139.4	-26.57	-48.37	-14	-12.57	0
139.5	-26.66	-48.47	-14	-12.66	0
139.6	-26.88	-48.68	-14	-12.88	0
139.7	-27.22	-49.02	-14	-13.22	0
139.8	-27.72	-49.52	-14	-13.72	0
139.9	-28.38	-50.19	-14	-14.38	0
140.0	-29.26	-51.07	-14	-15.26	0
140.1	-30.40	-52.21	-14	-16.40	0
140.2	-31.88	-53.69	-14	-17.88	0
140.3	-33.83	-55.63	-14	-19.83	0
140.4	-36.43	-58.24	-14	-22.43	0
140.5	-39.77	-61.57	-14	-25.77	0
140.6	-42.06	-63.86	-14	-28.06	0
140.7	-39.67	-61.47	-14	-25.67	0
140.8	-36.05	-57.86	-14	-22.05	0
140.9	-33.16	-54.96	-14	-19.16	0
141.0	-30.93	-52.73	-14	-16.93	0
141.1	-29.17	-50.98	-14	-15.17	0
141.2	-27.76	-49.56	-14	-13.76	0
141.3	-26.61	-48.41	-14	-12.61	0
141.4	-25.67	-47.48	-14	-11.67	0
141.5	-24.91	-46.72	-14	-10.91	0
141.6	-24.30	-46.11	-14	-10.30	0
141.7	-23.83	-45.64	-14	-9.83	0
141.8	-23.49	-45.29	-14	-9.49	0
141.9	-23.26	-45.06	-14	-9.26	0
142.0	-23.14	-44.94	-14	-9.14	0
142.1	-23.13	-44.94	-14	-9.13	0
142.2	-23.24	-45.04	-14	-9.24	0
142.3	-23.46	-45.27	-14	-9.46	0
142.4	-23.81	-45.61	-14	-9.81	0
142.5	-24.28	-46.08	-14	-10.28	0
142.6	-24.90	-46.70	-14	-10.90	0
142.7	-25.69	-47.49	-14	-11.69	0
142.8	-26.67	-48.47	-14	-12.67	0
142.9	-27.89	-49.69	-14	-13.89	0
143.0	-29.41	-51.21	-14	-15.41	0
143.1	-31.35	-53.15	-14	-17.35	0
143.2	-33.87	-55.68	-14	-19.87	0
143.3	-37.24	-59.04	-14	-23.24	0
143.4	-41.16	-62.96	-14	-27.16	0
143.5	-41.36	-63.16	-14	-27.36	0
143.6	-37.66	-59.46	-14	-23.66	0
143.7	-34.47	-56.27	-14	-20.47	0
143.8	-32.13	-53.93	-14	-18.13	0
143.9	-30.39	-52.19	-14	-16.39	0
144.0	-29.08	-50.89	-14	-15.08	0
144.1	-28.09	-49.90	-14	-14.09	0

144.2	-27.36	-49.16	-14	-13.36	0
144.3	-26.84	-48.64	-14	-12.84	0
144.4	-26.51	-48.31	-14	-12.51	0
144.5	-26.35	-48.16	-14	-12.35	0
144.6	-26.36	-48.16	-14	-12.36	0
144.7	-26.53	-48.33	-14	-12.53	0
144.8	-26.85	-48.66	-14	-12.85	0
144.9	-27.34	-49.15	-14	-13.34	0
145.0	-28.00	-49.80	-14	-14.00	0
145.1	-28.83	-50.63	-14	-14.83	0
145.2	-29.80	-51.60	-14	-15.80	0
145.3	-30.86	-52.66	-14	-16.86	0
145.4	-31.85	-53.65	-14	-17.85	0
145.5	-32.47	-54.28	-14	-18.47	0
145.6	-32.44	-54.24	-14	-18.44	0
145.7	-31.71	-53.51	-14	-17.71	0
145.8	-30.56	-52.37	-14	-16.56	0
145.9	-29.31	-51.11	-14	-15.31	0
146.0	-28.12	-49.93	-14	-14.12	0
146.1	-27.07	-48.88	-14	-13.07	0
146.2	-26.18	-47.99	-14	-12.18	0
146.3	-25.45	-47.25	-14	-11.45	0
146.4	-24.87	-46.67	-14	-10.87	0
146.5	-24.43	-46.24	-14	-10.43	0
146.6	-24.14	-45.94	-14	-10.14	0
146.7	-23.98	-45.78	-14	-9.98	0
146.8	-23.95	-45.76	-14	-9.95	0
146.9	-24.07	-45.87	-14	-10.07	0
147.0	-24.33	-46.14	-14	-10.33	0
147.1	-24.76	-46.56	-14	-10.76	0
147.2	-25.35	-47.16	-14	-11.35	0
147.3	-26.16	-47.96	-14	-12.16	0
147.4	-27.21	-49.01	-14	-13.21	0
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147.7	-32.88	-54.69	-14	-18.88	0
147.8	-36.62	-58.42	-14	-22.62	0
147.9	-43.56	-65.36	-14	-29.56	0
148.0	-52.37	-74.17	-14	-38.37	0
148.1	-39.76	-61.56	-14	-25.76	0
148.2	-34.72	-56.53	-14	-20.72	0
148.3	-31.66	-53.46	-14	-17.66	0
148.4	-29.51	-51.31	-14	-15.51	0
148.5	-27.92	-49.72	-14	-13.92	0
148.6	-26.71	-48.51	-14	-12.71	0
148.7	-25.79	-47.59	-14	-11.79	0
148.8	-25.10	-46.90	-14	-11.10	0
148.9	-24.60	-46.40	-14	-10.60	0
149.0	-24.28	-46.08	-14	-10.28	0
149.1	-24.11	-45.92	-14	-10.11	0

149.2	-24.10	-45.91	-14	-10.10	0
149.3	-24.24	-46.04	-14	-10.24	0
149.4	-24.52	-46.32	-14	-10.52	0
149.5	-24.95	-46.76	-14	-10.95	0
149.6	-25.53	-47.34	-14	-11.53	0
149.7	-26.27	-48.07	-14	-12.27	0
149.8	-27.15	-48.96	-14	-13.15	0
149.9	-28.15	-49.96	-14	-14.15	0
150.0	-29.20	-51.01	-14	-15.20	0
150.1	-30.14	-51.94	-14	-16.14	0
150.2	-30.73	-52.53	-14	-16.73	0
150.3	-30.74	-52.54	-14	-16.74	0
150.4	-30.19	-52.00	-14	-16.19	0
150.5	-29.31	-51.11	-14	-15.31	0
150.6	-28.32	-50.13	-14	-14.32	0
150.7	-27.40	-49.20	-14	-13.40	0
150.8	-26.61	-48.41	-14	-12.61	0
150.9	-25.97	-47.77	-14	-11.97	0
151.0	-25.50	-47.30	-14	-11.50	0
151.1	-25.20	-47.00	-14	-11.20	0
151.2	-25.07	-46.87	-14	-11.07	0
151.3	-25.12	-46.92	-14	-11.12	0
151.4	-25.35	-47.15	-14	-11.35	0
151.5	-25.78	-47.59	-14	-11.78	0
151.6	-26.45	-48.25	-14	-12.45	0
151.7	-27.40	-49.20	-14	-13.40	0
151.8	-28.69	-50.49	-14	-14.69	0
151.9	-30.46	-52.26	-14	-16.46	0
152.0	-32.91	-54.72	-14	-18.91	0
152.1	-36.38	-58.18	-14	-22.38	0
152.2	-40.25	-62.05	-14	-26.25	0
152.3	-38.74	-60.54	-14	-24.74	0
152.4	-34.37	-56.17	-14	-20.37	0
152.5	-31.01	-52.81	-14	-17.01	0
152.6	-28.52	-50.32	-14	-14.52	0
152.7	-26.62	-48.42	-14	-12.62	0
152.8	-25.13	-46.93	-14	-11.13	0
152.9	-23.94	-45.74	-14	-9.94	0
153.0	-22.99	-44.79	-14	-8.99	0
153.1	-22.25	-44.05	-14	-8.25	0
153.2	-21.67	-43.48	-14	-7.67	0
153.3	-21.25	-43.06	-14	-7.25	0
153.4	-20.98	-42.78	-14	-6.98	0
153.5	-20.84	-42.64	-14	-6.84	0
153.6	-20.82	-42.63	-14	-6.82	0
153.7	-20.94	-42.74	-14	-6.94	0
153.8	-21.19	-42.99	-14	-7.19	0
153.9	-21.58	-43.38	-14	-7.58	0
154.0	-22.11	-43.91	-14	-8.11	0
154.1	-22.80	-44.60	-14	-8.80	0

154.2	-23.67	-45.47	-14	-9.67	0
154.3	-24.74	-46.55	-14	-10.74	0
154.4	-26.07	-47.87	-14	-12.07	0
154.5	-27.70	-49.51	-14	-13.70	0
154.6	-29.75	-51.55	-14	-15.75	0
154.7	-32.34	-54.14	-14	-18.34	0
154.8	-35.64	-57.44	-14	-21.64	0
154.9	-39.20	-61.01	-14	-25.20	0
155.0	-39.80	-61.60	-14	-25.80	0
155.1	-37.08	-58.88	-14	-23.08	0
155.2	-34.48	-56.28	-14	-20.48	0
155.3	-32.62	-54.42	-14	-18.62	0
155.4	-31.37	-53.17	-14	-17.37	0
155.5	-30.59	-52.40	-14	-16.59	0
155.6	-30.22	-52.02	-14	-16.22	0
155.7	-30.19	-52.00	-14	-16.19	0
155.8	-30.51	-52.31	-14	-16.51	0
155.9	-31.17	-52.97	-14	-17.17	0
156.0	-32.16	-53.96	-14	-18.16	0
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156.2	-34.46	-56.26	-14	-20.46	0
156.3	-34.55	-56.35	-14	-20.55	0
156.4	-33.21	-55.02	-14	-19.21	0
156.5	-31.13	-52.93	-14	-17.13	0
156.6	-29.02	-50.82	-14	-15.02	0
156.7	-27.13	-48.94	-14	-13.13	0
156.8	-25.53	-47.33	-14	-11.53	0
156.9	-24.17	-45.97	-14	-10.17	0
157.0	-23.03	-44.84	-14	-9.03	0
157.1	-22.09	-43.90	-14	-8.09	0
157.2	-21.32	-43.13	-14	-7.32	0
157.3	-20.71	-42.51	-14	-6.71	0
157.4	-20.24	-42.04	-14	-6.24	0
157.5	-19.91	-41.71	-14	-5.91	0
157.6	-19.71	-41.51	-14	-5.71	0
157.7	-19.63	-41.43	-14	-5.63	0
157.8	-19.68	-41.49	-14	-5.68	0
157.9	-19.87	-41.67	-14	-5.87	0
158.0	-20.19	-41.99	-14	-6.19	0
158.1	-20.65	-42.46	-14	-6.65	0
158.2	-21.27	-43.07	-14	-7.27	0
158.3	-22.06	-43.86	-14	-8.06	0
158.4	-23.04	-44.84	-14	-9.04	0
158.5	-24.23	-46.03	-14	-10.23	0
158.6	-25.64	-47.44	-14	-11.64	0
158.7	-27.23	-49.04	-14	-13.23	0
158.8	-28.86	-50.66	-14	-14.86	0
158.9	-30.07	-51.87	-14	-16.07	0
159.0	-30.25	-52.05	-14	-16.25	0
159.1	-29.36	-51.16	-14	-15.36	0

159.2	-27.99	-49.79	-14	-13.99	0
159.3	-26.62	-48.43	-14	-12.62	0
159.4	-25.44	-47.25	-14	-11.44	0
159.5	-24.49	-46.30	-14	-10.49	0
159.6	-23.76	-45.57	-14	-9.76	0
159.7	-23.24	-45.04	-14	-9.24	0
159.8	-22.90	-44.71	-14	-8.90	0
159.9	-22.74	-44.54	-14	-8.74	0
160.0	-22.74	-44.54	-14	-8.74	0
160.1	-22.90	-44.70	-14	-8.90	0
160.2	-23.19	-45.00	-14	-9.19	0
160.3	-23.62	-45.42	-14	-9.62	0
160.4	-24.14	-45.95	-14	-10.14	0
160.5	-24.73	-46.53	-14	-10.73	0
160.6	-25.29	-47.10	-14	-11.29	0
160.7	-25.74	-47.54	-14	-11.74	0
160.8	-25.94	-47.75	-14	-11.94	0
160.9	-25.84	-47.64	-14	-11.84	0
161.0	-25.44	-47.25	-14	-11.44	0
161.1	-24.85	-46.66	-14	-10.85	0
161.2	-24.19	-45.99	-14	-10.19	0
161.3	-23.53	-45.34	-14	-9.53	0
161.4	-22.96	-44.76	-14	-8.96	0
161.5	-22.50	-44.30	-14	-8.50	0
161.6	-22.16	-43.97	-14	-8.16	0
161.7	-21.98	-43.78	-14	-7.98	0
161.8	-21.94	-43.74	-14	-7.94	0
161.9	-22.07	-43.87	-14	-8.07	0
162.0	-22.36	-44.17	-14	-8.36	0
162.1	-22.85	-44.65	-14	-8.85	0
162.2	-23.54	-45.34	-14	-9.54	0
162.3	-24.45	-46.25	-14	-10.45	0
162.4	-25.60	-47.41	-14	-11.60	0
162.5	-26.98	-48.78	-14	-12.98	0
162.6	-28.45	-50.25	-14	-14.45	0
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163.2	-23.85	-45.65	-14	-9.85	0
163.3	-22.62	-44.42	-14	-8.62	0
163.4	-21.61	-43.42	-14	-7.61	0
163.5	-20.82	-42.62	-14	-6.82	0
163.6	-20.21	-42.01	-14	-6.21	0
163.7	-19.77	-41.57	-14	-5.77	0
163.8	-19.49	-41.30	-14	-5.49	0
163.9	-19.37	-41.18	-14	-5.37	0
164.0	-19.40	-41.21	-14	-5.40	0
164.1	-19.58	-41.39	-14	-5.58	0

164.2	-19.92	-41.73	-14	-5.92	0
164.3	-20.43	-42.23	-14	-6.43	0
164.4	-21.11	-42.91	-14	-7.11	0
164.5	-21.99	-43.79	-14	-7.99	0
164.6	-23.08	-44.89	-14	-9.08	0
164.7	-24.42	-46.23	-14	-10.42	0
164.8	-26.02	-47.83	-14	-12.02	0
164.9	-27.84	-49.64	-14	-13.84	0
165.0	-29.64	-51.44	-14	-15.64	0
165.1	-30.80	-52.61	-14	-16.80	0
165.2	-30.67	-52.47	-14	-16.67	0
165.3	-29.52	-51.33	-14	-15.52	0
165.4	-28.14	-49.94	-14	-14.14	0
165.5	-26.92	-48.72	-14	-12.92	0
165.6	-25.98	-47.78	-14	-11.98	0
165.7	-25.34	-47.14	-14	-11.34	0
165.8	-24.99	-46.79	-14	-10.99	0
165.9	-24.93	-46.73	-14	-10.93	0
166.0	-25.16	-46.96	-14	-11.16	0
166.1	-25.72	-47.52	-14	-11.72	0
166.2	-26.66	-48.46	-14	-12.66	0
166.3	-28.10	-49.90	-14	-14.10	0
166.4	-30.26	-52.06	-14	-16.26	0
166.5	-33.63	-55.44	-14	-19.63	0
166.6	-39.32	-61.12	-14	-25.32	0
166.7	-41.11	-62.91	-14	-27.11	0
166.8	-34.24	-56.04	-14	-20.24	0
166.9	-29.80	-51.60	-14	-15.80	0
167.0	-26.81	-48.61	-14	-12.81	0
167.1	-24.62	-46.42	-14	-10.62	0
167.2	-22.94	-44.75	-14	-8.94	0
167.3	-21.64	-43.44	-14	-7.64	0
167.4	-20.63	-42.43	-14	-6.63	0
167.5	-19.85	-41.66	-14	-5.85	0
167.6	-19.28	-41.09	-14	-5.28	0
167.7	-18.90	-40.70	-14	-4.90	0
167.8	-18.69	-40.49	-14	-4.69	0
167.9	-18.65	-40.46	-14	-4.65	0
168.0	-18.79	-40.59	-14	-4.79	0
168.1	-19.10	-40.90	-14	-5.10	0
168.2	-19.60	-41.40	-14	-5.60	0
168.3	-20.31	-42.12	-14	-6.31	0
168.4	-21.28	-43.08	-14	-7.28	0
168.5	-22.56	-44.36	-14	-8.56	0
168.6	-24.25	-46.06	-14	-10.25	0
168.7	-26.55	-48.35	-14	-12.55	0
168.8	-29.86	-51.67	-14	-15.86	0
168.9	-35.38	-57.19	-14	-21.38	0
169.0	-46.94	-68.74	-14	-32.94	0
169.1	-36.71	-58.51	-14	-22.71	0

169.2	-30.90	-52.70	-14	-16.90	0
169.3	-27.63	-49.43	-14	-13.63	0
169.4	-25.48	-47.29	-14	-11.48	0
169.5	-24.00	-45.80	-14	-10.00	0
169.6	-22.97	-44.77	-14	-8.97	0
169.7	-22.29	-44.10	-14	-8.29	0
169.8	-21.92	-43.72	-14	-7.92	0
169.9	-21.82	-43.62	-14	-7.82	0
170.0	-21.99	-43.79	-14	-7.99	0
170.1	-22.43	-44.24	-14	-8.43	0
170.2	-23.20	-45.00	-14	-9.20	0
170.3	-24.34	-46.14	-14	-10.34	0
170.4	-25.99	-47.79	-14	-11.99	0
170.5	-28.40	-50.20	-14	-14.40	0
170.6	-32.12	-53.92	-14	-18.12	0
170.7	-38.42	-60.22	-14	-24.42	0
170.8	-38.96	-60.76	-14	-24.96	0
170.9	-32.14	-53.95	-14	-18.14	0
171.0	-27.99	-49.79	-14	-13.99	0
171.1	-25.22	-47.02	-14	-11.22	0
171.2	-23.23	-45.03	-14	-9.23	0
171.3	-21.74	-43.55	-14	-7.74	0
171.4	-20.63	-42.43	-14	-6.63	0
171.5	-19.81	-41.62	-14	-5.81	0
171.6	-19.25	-41.05	-14	-5.25	0
171.7	-18.90	-40.71	-14	-4.90	0
171.8	-18.77	-40.58	-14	-4.77	0
171.9	-18.85	-40.65	-14	-4.85	0
172.0	-19.15	-40.95	-14	-5.15	0
172.1	-19.68	-41.48	-14	-5.68	0
172.2	-20.47	-42.28	-14	-6.47	0
172.3	-21.60	-43.41	-14	-7.60	0
172.4	-23.17	-44.97	-14	-9.17	0
172.5	-25.37	-47.17	-14	-11.37	0
172.6	-28.66	-50.47	-14	-14.66	0
172.7	-34.48	-56.28	-14	-20.48	0
172.8	-50.57	-72.37	-14	-36.57	0
172.9	-34.30	-56.10	-14	-20.30	0
173.0	-28.45	-50.25	-14	-14.45	0
173.1	-25.09	-46.89	-14	-11.09	0
173.2	-22.82	-44.62	-14	-8.82	0
173.3	-21.19	-42.99	-14	-7.19	0
173.4	-19.99	-41.79	-14	-5.99	0
173.5	-19.12	-40.93	-14	-5.12	0
173.6	-18.53	-40.34	-14	-4.53	0
173.7	-18.19	-39.99	-14	-4.19	0
173.8	-18.06	-39.87	-14	-4.06	0
173.9	-18.17	-39.97	-14	-4.17	0
174.0	-18.50	-40.30	-14	-4.50	0
174.1	-19.09	-40.89	-14	-5.09	0

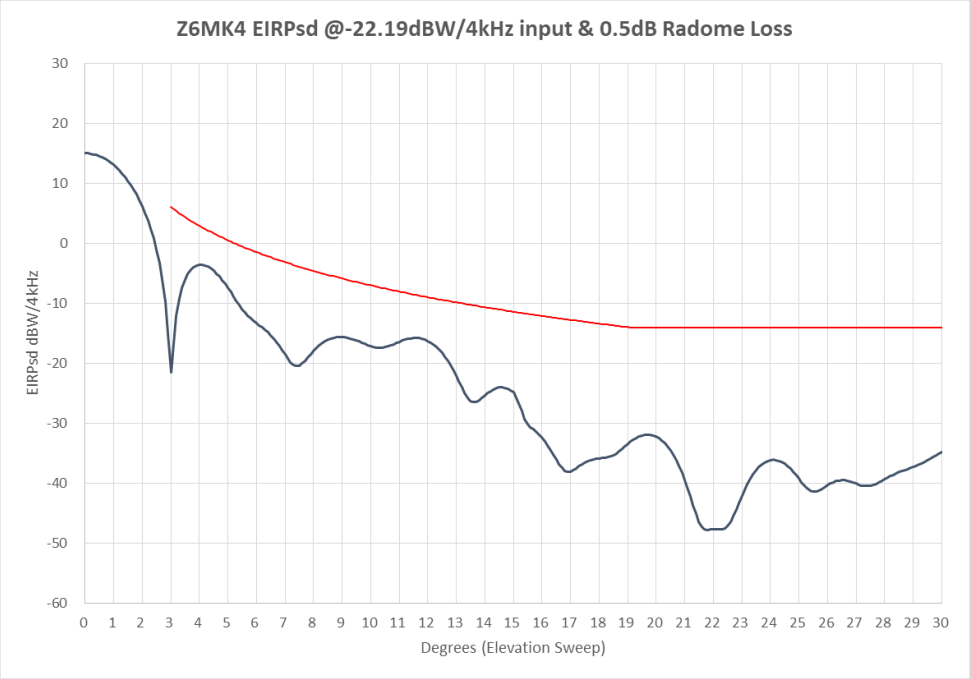
174.2	-19.97	-41.77	-14	-5.97	0
174.3	-21.22	-43.03	-14	-7.22	0
174.4	-22.98	-44.78	-14	-8.98	0
174.5	-25.50	-47.30	-14	-11.50	0
174.6	-29.48	-51.29	-14	-15.48	0
174.7	-37.68	-59.48	-14	-23.68	0
174.8	-40.83	-62.63	-14	-26.83	0
174.9	-30.41	-52.21	-14	-16.41	0
175.0	-25.84	-47.64	-14	-11.84	0
175.1	-22.97	-44.78	-14	-8.97	0
175.2	-20.97	-42.77	-14	-6.97	0
175.3	-19.51	-41.31	-14	-5.51	0
175.4	-18.44	-40.24	-14	-4.44	0
175.5	-17.68	-39.48	-14	-3.68	0
175.6	-17.18	-38.98	-14	-3.18	0
175.7	-16.92	-38.72	-14	-2.92	0
175.8	-16.88	-38.69	-14	-2.88	0
175.9	-17.08	-38.88	-14	-3.08	0
176.0	-17.53	-39.33	-14	-3.53	0
176.1	-18.26	-40.06	-14	-4.26	0
176.2	-19.34	-41.14	-14	-5.34	0
176.3	-20.87	-42.67	-14	-6.87	0
176.4	-23.08	-44.88	-14	-9.08	0
176.5	-26.46	-48.26	-14	-12.46	0
176.6	-32.51	-54.32	-14	-18.51	0
176.7	-39.55	-61.36	-14	-25.55	0
176.8	-29.59	-51.40	-14	-15.59	0
176.9	-24.46	-46.26	-14	-10.46	0
177.0	-21.26	-43.06	-14	-7.26	0
177.1	-19.00	-40.80	-14	-5.00	0
177.2	-17.32	-39.12	-14	-3.32	0
177.3	-16.03	-37.84	-14	-2.03	0
177.4	-15.06	-36.86	-14	-1.06	0
177.5	-14.33	-36.13	-14	-0.33	0
177.6	-13.82	-35.62	-14	0.18	0
177.7	-13.50	-35.30	-14	0.50	0
177.8	-13.37	-35.18	-14	0.63	0
177.9	-13.43	-35.24	-14	0.57	0
178.0	-13.68	-35.49	-14	0.32	0
178.1	-14.14	-35.95	-14	-0.14	0
178.2	-14.84	-36.64	-14	-0.84	0
178.3	-15.81	-37.61	-14	-1.81	0
178.4	-17.15	-38.95	-14	-3.15	0
178.5	-18.98	-40.78	-14	-4.98	0
178.6	-21.59	-43.40	-14	-7.59	0
178.7	-25.73	-47.53	-14	-11.73	0
178.8	-34.63	-56.43	-14	-20.63	0
178.9	-36.19	-57.99	-14	-22.19	0
179.0	-26.06	-47.86	-14	-12.06	0
179.1	-21.56	-43.37	-14	-7.56	0

179.2	-18.71	-40.51	-14	-4.71	0
179.3	-16.67	-38.48	-14	-2.67	0
179.4	-15.16	-36.96	-14	-1.16	0
179.5	-14.00	-35.81	-14	0.00	0
179.6	-13.13	-34.93	-14	0.87	0
179.7	-12.49	-34.29	-14	1.51	0
179.8	-12.05	-33.85	-14	1.95	0
179.9	-11.79	-33.60	-14	2.21	0
180.0	-11.71	-33.51	-14	2.29	0

1. Maximum co-polarized EIRP density

1) 14GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model	Z6MK4		Min input: (@all freq.)	-22.19
Frequency	14.00	[GHz]		
GSO arc	Perpendicular			
EIRPsd Input	-22.19	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	37.22			out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	37.22	15.03			
0.1	37.20	15.00			
0.2	37.14	14.94			
0.3	37.04	14.85			
0.4	36.90	14.71			
0.5	36.73	14.54			
0.6	36.52	14.33			
0.7	36.27	14.08			
0.8	35.98	13.78			
0.9	35.64	13.45			
1.0	35.26	13.07			
1.1	34.84	12.65			
1.2	34.37	12.18			
1.3	33.84	11.65			
1.4	33.27	11.08			
1.5	32.63	10.44			
1.6	31.94	9.75			
1.7	31.17	8.98			
1.8	30.34	8.14			
1.9	29.41	7.22			
2.0	28.39	6.20			
2.1	27.27	5.07			
2.2	26.01	3.82			
2.3	24.59	2.40			
2.4	22.98	0.79			
2.5	21.11	-1.09			
2.6	18.88	-3.31			
2.7	16.11	-6.08			
2.8	12.47	-9.72			
2.9	7.14	-15.05			
3.0	0.70	-21.49	6.071968632	-5.38	0
3.1	5.45	-16.74	5.715957654	-0.27	0
3.2	10.10	-12.09	5.371250542	4.73	0
3.3	12.93	-9.26	5.037151503	7.90	0
3.4	14.81	-7.38	4.713027074	10.10	0
3.5	16.13	-6.06	4.398298891	11.73	0
3.6	17.06	-5.13	4.092437481	12.97	0
3.7	17.73	-4.47	3.794956898	13.93	0
3.8	18.17	-4.02	3.505410085	14.67	0
3.9	18.45	-3.74	3.223384824	15.23	0
4.0	18.58	-3.61	2.948500217	15.64	0
4.1	18.59	-3.60	2.680403582	15.91	0

4.2	18.49	-3.70	2.41876774	16.07	0
4.3	18.29	-3.90	2.163288611	16.13	0
4.4	18.00	-4.19	1.913683088	16.08	0
4.5	17.62	-4.57	1.669687156	15.96	0
4.6	17.18	-5.02	1.431054208	15.74	0
4.7	16.66	-5.54	1.197553552	15.46	0
4.8	16.07	-6.12	0.968969066	15.11	0
4.9	15.44	-6.75	0.745097999	14.69	0
5.0	14.76	-7.43	0.525749892	14.24	0
5.1	14.05	-8.14	0.310745598	13.74	0
5.2	13.33	-8.86	0.099916409	13.23	0
5.3	12.61	-9.58	-0.10689674	12.72	0
5.4	11.91	-10.28	-0.309843996	12.22	0
5.5	11.26	-10.93	-0.509067237	11.77	0
5.6	10.67	-11.53	-0.704700675	11.37	0
5.7	10.14	-12.05	-0.896871392	11.03	0
5.8	9.67	-12.52	-1.085699839	10.76	0
5.9	9.26	-12.93	-1.271300291	10.54	0
6.0	8.89	-13.30	-1.45378126	10.35	0
6.1	8.54	-13.65	-1.633245875	10.17	0
6.2	8.18	-14.02	-1.809792237	9.99	0
6.3	7.79	-14.40	-1.983513736	9.77	0
6.4	7.36	-14.83	-2.15449935	9.52	0
6.5	6.88	-15.31	-2.322833916	9.21	0
6.6	6.34	-15.85	-2.488598389	8.83	0
6.7	5.74	-16.45	-2.651870068	8.39	0
6.8	5.08	-17.11	-2.812722818	7.89	0
6.9	4.37	-17.82	-2.971227268	7.34	0
7.0	3.64	-18.55	-3.127451	6.77	0
7.1	2.94	-19.25	-3.281458718	6.23	0
7.2	2.34	-19.85	-3.433312411	5.78	0
7.3	1.92	-20.27	-3.583071503	5.50	0
7.4	1.73	-20.46	-3.730792993	5.46	0
7.5	1.81	-20.38	-3.876531585	5.68	0
7.6	2.11	-20.08	-4.020339807	6.13	0
7.7	2.58	-19.62	-4.162268129	6.74	0
7.8	3.12	-19.07	-4.302365067	7.42	0
7.9	3.68	-18.51	-4.440677282	8.12	0
8.0	4.23	-17.96	-4.577249675	8.80	0
8.1	4.73	-17.46	-4.712125472	9.44	0
8.2	5.17	-17.02	-4.84534631	10.02	0
8.3	5.55	-16.64	-4.976952309	10.53	0
8.4	5.87	-16.32	-5.106982152	10.98	0
8.5	6.13	-16.06	-5.235473143	11.37	0
8.6	6.33	-15.86	-5.362461281	11.69	0
8.7	6.47	-15.72	-5.487981315	11.96	0
8.8	6.56	-15.63	-5.612066804	12.18	0
8.9	6.60	-15.59	-5.734750166	12.34	0
9.0	6.60	-15.59	-5.856062736	12.45	0
9.1	6.55	-15.64	-5.976034808	12.52	0

9.2	6.46	-15.73	-6.094695684	12.56	0
9.3	6.34	-15.85	-6.212073714	12.55	0
9.4	6.18	-16.01	-6.32819634	12.51	0
9.5	6.00	-16.19	-6.443090132	12.45	0
9.6	5.81	-16.38	-6.556780826	12.36	0
9.7	5.60	-16.59	-6.669293357	12.27	0
9.8	5.40	-16.79	-6.780651892	12.18	0
9.9	5.21	-16.98	-6.890879865	12.10	0
10.0	5.04	-17.15	-7	12.04	0
10.1	4.91	-17.28	-7.108034345	12.02	0
10.2	4.83	-17.36	-7.215004294	12.05	0
10.3	4.80	-17.39	-7.320930618	12.12	0
10.4	4.83	-17.36	-7.425833482	12.25	0
10.5	4.91	-17.28	-7.529732477	12.44	0
10.6	5.03	-17.16	-7.632646632	12.66	0
10.7	5.19	-17.00	-7.734594442	12.93	0
10.8	5.38	-16.81	-7.835593887	13.21	0
10.9	5.57	-16.62	-7.935662449	13.51	0
11.0	5.77	-16.42	-8.034817129	13.80	0
11.1	5.95	-16.24	-8.13307447	14.08	0
11.2	6.11	-16.08	-8.230450567	14.34	0
11.3	6.24	-15.95	-8.326961087	14.57	0
11.4	6.33	-15.86	-8.422621283	14.76	0
11.5	6.39	-15.80	-8.517446009	14.90	0
11.6	6.40	-15.80	-8.611449731	15.01	0
11.7	6.36	-15.84	-8.704646544	15.06	0
11.8	6.26	-15.93	-8.797050183	15.06	0
11.9	6.11	-16.08	-8.888674035	15.00	0
12.0	5.91	-16.28	-8.979531151	14.89	0
12.1	5.64	-16.55	-9.069634258	14.71	0
12.2	5.31	-16.88	-9.158995767	14.47	0
12.3	4.92	-17.27	-9.247627786	14.17	0
12.4	4.45	-17.74	-9.335542129	13.79	0
12.5	3.92	-18.27	-9.422750325	13.34	0
12.6	3.31	-18.89	-9.509263628	12.81	0
12.7	2.62	-19.58	-9.595093024	12.21	0
12.8	1.85	-20.34	-9.680249241	11.53	0
12.9	1.01	-21.19	-9.764742757	10.77	0
13.0	0.10	-22.10	-9.848583808	9.94	0
13.1	-0.86	-23.05	-9.931782391	9.07	0
13.2	-1.83	-24.02	-10.01434828	8.19	0
13.3	-2.75	-24.94	-10.09629102	7.35	0
13.4	-3.52	-25.71	-10.17761996	6.65	0
13.5	-4.07	-26.26	-10.25834421	6.19	0
13.6	-4.31	-26.50	-10.33847271	6.03	0
13.7	-4.26	-26.45	-10.41801418	6.16	0
13.8	-3.99	-26.18	-10.49697716	6.50	0
13.9	-3.60	-25.79	-10.57537001	6.97	0
14.0	-3.17	-25.36	-10.65320089	7.48	0
14.1	-2.76	-24.96	-10.73047782	7.97	0

14.2	-2.42	-24.61	-10.80720861	8.39	0
14.3	-2.14	-24.33	-10.88340094	8.74	0
14.4	-1.95	-24.15	-10.9590623	9.00	0
14.5	-1.86	-24.05	-11.03420006	9.18	0
14.6	-1.85	-24.04	-11.10882139	9.26	0
14.7	-1.92	-24.11	-11.18293337	9.26	0
14.8	-2.09	-24.28	-11.25654288	9.17	0
14.9	-2.33	-24.52	-11.32965671	9.00	0
15.0	-2.66	-24.85	-11.40228148	8.74	0
15.1	-3.56	-25.75	-11.47442368	7.92	0
15.2	-4.56	-26.75	-11.5460897	6.99	0
15.3	-5.81	-28.01	-11.61728577	5.80	0
15.4	-7.13	-29.32	-11.68801802	4.56	0
15.5	-7.90	-30.09	-11.75829245	3.86	0
15.6	-8.54	-30.73	-11.82811496	3.29	0
15.7	-8.84	-31.03	-11.89749131	3.05	0
15.8	-9.23	-31.42	-11.96642717	2.74	0
15.9	-9.68	-31.87	-12.03492811	2.35	0
16.0	-10.22	-32.41	-12.10299957	1.88	0
16.1	-10.84	-33.03	-12.1706469	1.33	0
16.2	-11.53	-33.72	-12.23787536	0.71	0
16.3	-12.28	-34.47	-12.30469011	0.02	0
16.4	-13.08	-35.27	-12.3710962	-0.71	0
16.5	-13.89	-36.08	-12.43709861	-1.45	0
16.6	-14.65	-36.84	-12.5027022	-2.14	0
16.7	-15.29	-37.48	-12.56791178	-2.72	0
16.8	-15.73	-37.92	-12.63273204	-3.10	0
16.9	-15.94	-38.13	-12.69716762	-3.24	0
17.0	-15.90	-38.10	-12.76122303	-3.14	0
17.1	-15.69	-37.88	-12.82490276	-2.86	0
17.2	-15.36	-37.55	-12.88821117	-2.47	0
17.3	-15.00	-37.19	-12.95115258	-2.05	0
17.4	-14.65	-36.84	-13.01373121	-1.63	0
17.5	-14.34	-36.54	-13.07595122	-1.27	0
17.6	-14.10	-36.29	-13.1378167	-0.96	0
17.7	-13.92	-36.11	-13.19933166	-0.72	0
17.8	-13.80	-35.99	-13.26050006	-0.54	0
17.9	-13.72	-35.92	-13.32132577	-0.40	0
18.0	-13.68	-35.87	-13.38181263	-0.30	0
18.1	-13.64	-35.83	-13.44196437	-0.20	0
18.2	-13.59	-35.78	-13.5017847	-0.08	0
18.3	-13.49	-35.68	-13.56127724	0.07	0
18.4	-13.34	-35.53	-13.62044558	0.28	0
18.5	-13.12	-35.31	-13.67929321	0.56	0
18.6	-12.83	-35.02	-13.73782361	0.91	0
18.7	-12.48	-34.67	-13.79604016	1.32	0
18.8	-12.09	-34.28	-13.85394623	1.76	0
18.9	-11.69	-33.88	-13.9115451	2.22	0
19.0	-11.29	-33.48	-13.96884002	2.68	0
19.1	-10.91	-33.10	-14.02583418	3.12	0

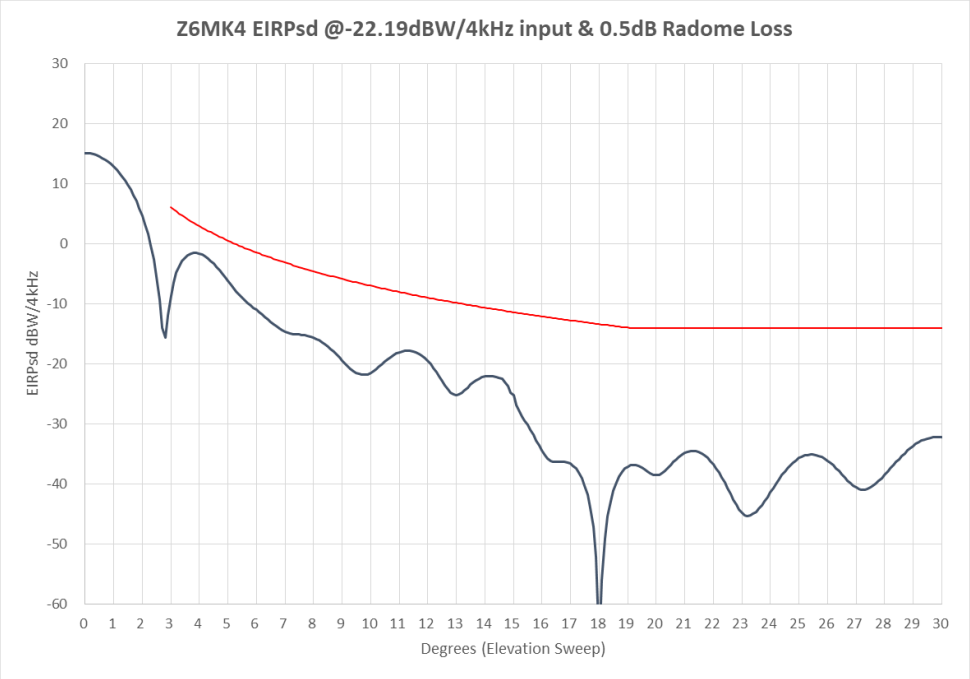
19.2	-10.56	-32.75	-14	3.44	0
19.3	-10.27	-32.46	-14	3.73	0
19.4	-10.03	-32.22	-14	3.97	0
19.5	-9.85	-32.04	-14	4.15	0
19.6	-9.75	-31.94	-14	4.25	0
19.7	-9.71	-31.90	-14	4.29	0
19.8	-9.75	-31.94	-14	4.25	0
19.9	-9.86	-32.05	-14	4.14	0
20.0	-10.06	-32.25	-14	3.94	0
20.1	-10.33	-32.52	-14	3.67	0
20.2	-10.69	-32.89	-14	3.31	0
20.3	-11.14	-33.34	-14	2.86	0
20.4	-11.69	-33.88	-14	2.31	0
20.5	-12.33	-34.52	-14	1.67	0
20.6	-13.08	-35.27	-14	0.92	0
20.7	-13.93	-36.12	-14	0.07	0
20.8	-14.90	-37.10	-14	-0.90	0
20.9	-16.00	-38.19	-14	-2.00	0
21.0	-17.22	-39.41	-14	-3.22	0
21.1	-18.56	-40.75	-14	-4.56	0
21.2	-20.00	-42.19	-14	-6.00	0
21.3	-21.50	-43.69	-14	-7.50	0
21.4	-22.95	-45.14	-14	-8.95	0
21.5	-24.20	-46.39	-14	-10.20	0
21.6	-25.07	-47.27	-14	-11.07	0
21.7	-25.52	-47.71	-14	-11.52	0
21.8	-25.63	-47.82	-14	-11.63	0
21.9	-25.56	-47.75	-14	-11.56	0
22.0	-25.48	-47.67	-14	-11.48	0
22.1	-25.43	-47.63	-14	-11.43	0
22.2	-25.44	-47.63	-14	-11.44	0
22.3	-25.43	-47.62	-14	-11.43	0
22.4	-25.31	-47.50	-14	-11.31	0
22.5	-24.95	-47.14	-14	-10.95	0
22.6	-24.29	-46.48	-14	-10.29	0
22.7	-23.36	-45.55	-14	-9.36	0
22.8	-22.25	-44.44	-14	-8.25	0
22.9	-21.08	-43.28	-14	-7.08	0
23.0	-19.94	-42.13	-14	-5.94	0
23.1	-18.87	-41.06	-14	-4.87	0
23.2	-17.90	-40.09	-14	-3.90	0
23.3	-17.03	-39.22	-14	-3.03	0
23.4	-16.28	-38.47	-14	-2.28	0
23.5	-15.64	-37.83	-14	-1.64	0
23.6	-15.11	-37.30	-14	-1.11	0
23.7	-14.68	-36.87	-14	-0.68	0
23.8	-14.34	-36.53	-14	-0.34	0
23.9	-14.11	-36.30	-14	-0.11	0
24.0	-13.96	-36.15	-14	0.04	0
24.1	-13.91	-36.10	-14	0.09	0

24.2	-13.95	-36.14	-14	0.05	0
24.3	-14.07	-36.26	-14	-0.07	0
24.4	-14.28	-36.47	-14	-0.28	0
24.5	-14.57	-36.76	-14	-0.57	0
24.6	-14.94	-37.13	-14	-0.94	0
24.7	-15.39	-37.58	-14	-1.39	0
24.8	-15.90	-38.09	-14	-1.90	0
24.9	-16.47	-38.66	-14	-2.47	0
25.0	-17.07	-39.26	-14	-3.07	0
25.1	-17.67	-39.86	-14	-3.67	0
25.2	-18.23	-40.43	-14	-4.23	0
25.3	-18.70	-40.89	-14	-4.70	0
25.4	-19.03	-41.22	-14	-5.03	0
25.5	-19.19	-41.38	-14	-5.19	0
25.6	-19.17	-41.36	-14	-5.17	0
25.7	-19.01	-41.20	-14	-5.01	0
25.8	-18.75	-40.94	-14	-4.75	0
25.9	-18.45	-40.64	-14	-4.45	0
26.0	-18.14	-40.33	-14	-4.14	0
26.1	-17.86	-40.06	-14	-3.86	0
26.2	-17.64	-39.83	-14	-3.64	0
26.3	-17.47	-39.66	-14	-3.47	0
26.4	-17.36	-39.55	-14	-3.36	0
26.5	-17.32	-39.51	-14	-3.32	0
26.6	-17.34	-39.53	-14	-3.34	0
26.7	-17.42	-39.61	-14	-3.42	0
26.8	-17.54	-39.73	-14	-3.54	0
26.9	-17.70	-39.89	-14	-3.70	0
27.0	-17.87	-40.06	-14	-3.87	0
27.1	-18.03	-40.23	-14	-4.03	0
27.2	-18.17	-40.37	-14	-4.17	0
27.3	-18.27	-40.46	-14	-4.27	0
27.4	-18.30	-40.49	-14	-4.30	0
27.5	-18.26	-40.45	-14	-4.26	0
27.6	-18.14	-40.33	-14	-4.14	0
27.7	-17.96	-40.15	-14	-3.96	0
27.8	-17.73	-39.92	-14	-3.73	0
27.9	-17.47	-39.66	-14	-3.47	0
28.0	-17.19	-39.38	-14	-3.19	0
28.1	-16.91	-39.10	-14	-2.91	0
28.2	-16.65	-38.84	-14	-2.65	0
28.3	-16.40	-38.59	-14	-2.40	0
28.4	-16.17	-38.37	-14	-2.17	0
28.5	-15.97	-38.16	-14	-1.97	0
28.6	-15.79	-37.98	-14	-1.79	0
28.7	-15.61	-37.81	-14	-1.61	0
28.8	-15.45	-37.64	-14	-1.45	0
28.9	-15.29	-37.48	-14	-1.29	0
29.0	-15.12	-37.31	-14	-1.12	0
29.1	-14.93	-37.12	-14	-0.93	0

29.2	-14.73	-36.92	-14	-0.73	0
29.3	-14.50	-36.69	-14	-0.50	0
29.4	-14.25	-36.44	-14	-0.25	0
29.5	-13.98	-36.17	-14	0.02	0
29.6	-13.70	-35.89	-14	0.30	0
29.7	-13.41	-35.60	-14	0.59	0
29.8	-13.11	-35.30	-14	0.89	0
29.9	-12.83	-35.02	-14	1.17	0
30.0	-12.55	-34.75	-14	1.45	0

3) 14.5GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model	Z6MK4		Min input: (@all freq.)	-22.19
Frequency	14.50	[GHz]		
GSO arc	Perpendicular			
EIRPsd Input	-21.80	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	36.91			out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	36.91	15.11			
0.1	36.88	15.08			
0.2	36.81	15.01			
0.3	36.70	14.89			
0.4	36.54	14.74			
0.5	36.34	14.54			
0.6	36.10	14.30			
0.7	35.81	14.01			
0.8	35.48	13.68			
0.9	35.10	13.29			
1.0	34.66	12.86			
1.1	34.18	12.37			
1.2	33.63	11.83			
1.3	33.03	11.22			
1.4	32.36	10.55			
1.5	31.61	9.81			
1.6	30.79	8.99			
1.7	29.88	8.08			
1.8	28.87	7.06			
1.9	27.74	5.94			
2.0	26.47	4.67			
2.1	25.03	3.23			
2.2	23.38	1.58			
2.3	21.45	-0.35			
2.4	19.14	-2.66			
2.5	16.26	-5.55			
2.6	12.50	-9.30			
2.7	7.79	-14.01			
2.8	6.24	-15.57			
2.9	9.93	-11.87			
3.0	13.13	-8.67	6.071968632	7.06	0
3.1	15.35	-6.45	5.715957654	9.64	0
3.2	16.93	-4.87	5.371250542	11.56	0
3.3	18.07	-3.74	5.037151503	13.03	0
3.4	18.89	-2.91	4.713027074	14.18	0
3.5	19.48	-2.32	4.398298891	15.08	0
3.6	19.88	-1.92	4.092437481	15.79	0
3.7	20.13	-1.67	3.794956898	16.34	0
3.8	20.25	-1.56	3.505410085	16.74	0
3.9	20.25	-1.55	3.223384824	17.03	0
4.0	20.15	-1.65	2.948500217	17.20	0
4.1	19.97	-1.84	2.680403582	17.29	0

4.2	19.70	-2.11	2.41876774	17.28	0
4.3	19.36	-2.45	2.163288611	17.19	0
4.4	18.95	-2.85	1.913683088	17.03	0
4.5	18.48	-3.32	1.669687156	16.81	0
4.6	17.97	-3.84	1.431054208	16.54	0
4.7	17.41	-4.39	1.197553552	16.21	0
4.8	16.82	-4.98	0.968969066	15.85	0
4.9	16.21	-5.59	0.745097999	15.47	0
5.0	15.60	-6.20	0.525749892	15.07	0
5.1	14.99	-6.81	0.310745598	14.68	0
5.2	14.40	-7.40	0.099916409	14.30	0
5.3	13.84	-7.97	-0.10689674	13.94	0
5.4	13.31	-8.49	-0.309843996	13.62	0
5.5	12.82	-8.98	-0.509067237	13.33	0
5.6	12.37	-9.43	-0.704700675	13.07	0
5.7	11.95	-9.86	-0.896871392	12.84	0
5.8	11.55	-10.25	-1.085699839	12.63	0
5.9	11.16	-10.64	-1.271300291	12.43	0
6.0	10.78	-11.02	-1.45378126	12.24	0
6.1	10.40	-11.41	-1.633245875	12.03	0
6.2	10.00	-11.80	-1.809792237	11.81	0
6.3	9.60	-12.20	-1.983513736	11.59	0
6.4	9.20	-12.61	-2.15449935	11.35	0
6.5	8.79	-13.01	-2.322833916	11.12	0
6.6	8.40	-13.40	-2.488598389	10.89	0
6.7	8.03	-13.77	-2.651870068	10.68	0
6.8	7.70	-14.11	-2.812722818	10.51	0
6.9	7.41	-14.39	-2.971227268	10.38	0
7.0	7.18	-14.63	-3.127451	10.30	0
7.1	7.00	-14.81	-3.281458718	10.28	0
7.2	6.87	-14.93	-3.433312411	10.30	0
7.3	6.78	-15.02	-3.583071503	10.36	0
7.4	6.72	-15.09	-3.730792993	10.45	0
7.5	6.67	-15.14	-3.876531585	10.54	0
7.6	6.61	-15.19	-4.020339807	10.63	0
7.7	6.55	-15.26	-4.162268129	10.71	0
7.8	6.45	-15.35	-4.302365067	10.75	0
7.9	6.33	-15.48	-4.440677282	10.77	0
8.0	6.16	-15.64	-4.577249675	10.74	0
8.1	5.95	-15.85	-4.712125472	10.66	0
8.2	5.70	-16.10	-4.84534631	10.55	0
8.3	5.41	-16.40	-4.976952309	10.38	0
8.4	5.07	-16.73	-5.106982152	10.18	0
8.5	4.69	-17.11	-5.235473143	9.93	0
8.6	4.28	-17.52	-5.362461281	9.64	0
8.7	3.84	-17.97	-5.487981315	9.33	0
8.8	3.37	-18.43	-5.612066804	8.98	0
8.9	2.89	-18.92	-5.734750166	8.62	0
9.0	2.39	-19.41	-5.856062736	8.25	0
9.1	1.91	-19.90	-5.976034808	7.88	0

9.2	1.44	-20.36	-6.094695684	7.53	0
9.3	1.00	-20.80	-6.212073714	7.22	0
9.4	0.62	-21.18	-6.32819634	6.95	0
9.5	0.31	-21.50	-6.443090132	6.75	0
9.6	0.08	-21.72	-6.556780826	6.64	0
9.7	-0.03	-21.84	-6.669293357	6.64	0
9.8	-0.04	-21.84	-6.780651892	6.74	0
9.9	0.07	-21.73	-6.890879865	6.96	0
10.0	0.29	-21.52	-7	7.29	0
10.1	0.59	-21.22	-7.108034345	7.69	0
10.2	0.95	-20.86	-7.215004294	8.16	0
10.3	1.35	-20.45	-7.320930618	8.67	0
10.4	1.76	-20.04	-7.425833482	9.19	0
10.5	2.18	-19.63	-7.529732477	9.71	0
10.6	2.57	-19.23	-7.632646632	10.20	0
10.7	2.93	-18.87	-7.734594442	10.67	0
10.8	3.25	-18.55	-7.835593887	11.09	0
10.9	3.53	-18.28	-7.935662449	11.46	0
11.0	3.75	-18.06	-8.034817129	11.78	0
11.1	3.91	-17.90	-8.13307447	12.04	0
11.2	4.00	-17.80	-8.230450567	12.24	0
11.3	4.04	-17.76	-8.326961087	12.37	0
11.4	4.01	-17.79	-8.422621283	12.43	0
11.5	3.91	-17.89	-8.517446009	12.43	0
11.6	3.74	-18.06	-8.611449731	12.35	0
11.7	3.50	-18.31	-8.704646544	12.20	0
11.8	3.18	-18.62	-8.797050183	11.98	0
11.9	2.79	-19.01	-8.888674035	11.68	0
12.0	2.32	-19.48	-8.979531151	11.30	0
12.1	1.78	-20.03	-9.069634258	10.85	0
12.2	1.16	-20.64	-9.158995767	10.32	0
12.3	0.48	-21.33	-9.247627786	9.72	0
12.4	-0.26	-22.06	-9.335542129	9.07	0
12.5	-1.03	-22.83	-9.422750325	8.40	0
12.6	-1.78	-23.58	-9.509263628	7.73	0
12.7	-2.46	-24.27	-9.595093024	7.13	0
12.8	-3.01	-24.81	-9.680249241	6.67	0
12.9	-3.34	-25.14	-9.764742757	6.42	0
13.0	-3.43	-25.23	-9.848583808	6.42	0
13.1	-3.29	-25.09	-9.931782391	6.64	0
13.2	-2.98	-24.78	-10.01434828	7.04	0
13.3	-2.57	-24.37	-10.09629102	7.53	0
13.4	-2.12	-23.92	-10.17761996	8.06	0
13.5	-1.68	-23.48	-10.25834421	8.58	0
13.6	-1.28	-23.09	-10.33847271	9.05	0
13.7	-0.94	-22.75	-10.41801418	9.47	0
13.8	-0.67	-22.47	-10.49697716	9.83	0
13.9	-0.46	-22.26	-10.57537001	10.12	0
14.0	-0.32	-22.12	-10.65320089	10.34	0
14.1	-0.24	-22.04	-10.73047782	10.49	0

14.2	-0.22	-22.03	-10.80720861	10.58	0
14.3	-0.27	-22.07	-10.88340094	10.62	0
14.4	-0.37	-22.17	-10.9590623	10.59	0
14.5	-0.52	-22.32	-11.03420006	10.52	0
14.6	-0.71	-22.51	-11.10882139	10.40	0
14.7	-1.21	-23.02	-11.18293337	9.97	0
14.8	-1.91	-23.72	-11.25654288	9.34	0
14.9	-2.99	-24.80	-11.32965671	8.34	0
15.0	-3.43	-25.24	-11.40228148	7.97	0
15.1	-5.09	-26.89	-11.47442368	6.39	0
15.2	-5.83	-27.63	-11.5460897	5.72	0
15.3	-6.93	-28.74	-11.61728577	4.68	0
15.4	-7.61	-29.41	-11.68801802	4.08	0
15.5	-8.35	-30.16	-11.75829245	3.40	0
15.6	-9.16	-30.96	-11.82811496	2.67	0
15.7	-10.01	-31.81	-11.89749131	1.89	0
15.8	-10.90	-32.70	-11.96642717	1.07	0
15.9	-11.78	-33.58	-12.03492811	0.26	0
16.0	-12.62	-34.42	-12.10299957	-0.51	0
16.1	-13.35	-35.15	-12.1706469	-1.18	0
16.2	-13.93	-35.73	-12.23787536	-1.69	0
16.3	-14.31	-36.12	-12.30469011	-2.01	0
16.4	-14.52	-36.32	-12.3710962	-2.15	0
16.5	-14.58	-36.38	-12.43709861	-2.14	0
16.6	-14.56	-36.37	-12.5027022	-2.06	0
16.7	-14.53	-36.33	-12.56791178	-1.96	0
16.8	-14.54	-36.34	-12.63273204	-1.90	0
16.9	-14.62	-36.42	-12.69716762	-1.92	0
17.0	-14.82	-36.62	-12.76122303	-2.06	0
17.1	-15.15	-36.95	-12.82490276	-2.32	0
17.2	-15.64	-37.44	-12.88821117	-2.75	0
17.3	-16.32	-38.13	-12.95115258	-3.37	0
17.4	-17.24	-39.04	-13.01373121	-4.22	0
17.5	-18.44	-40.25	-13.07595122	-5.37	0
17.6	-20.03	-41.84	-13.1378167	-6.90	0
17.7	-22.19	-43.99	-13.19933166	-8.99	0
17.8	-25.29	-47.09	-13.26050006	-12.03	0
17.9	-30.43	-52.23	-13.32132577	-17.10	0
18.0	-45.37	-67.17	-13.38181263	-31.99	0
18.1	-34.23	-56.03	-13.44196437	-20.79	0
18.2	-27.20	-49.00	-13.5017847	-13.70	0
18.3	-23.49	-45.29	-13.56127724	-9.93	0
18.4	-21.04	-42.84	-13.62044558	-7.42	0
18.5	-19.27	-41.07	-13.67929321	-5.59	0
18.6	-17.95	-39.75	-13.73782361	-4.21	0
18.7	-16.95	-38.76	-13.79604016	-3.16	0
18.8	-16.21	-38.01	-13.85394623	-2.36	0
18.9	-15.67	-37.48	-13.9115451	-1.76	0
19.0	-15.31	-37.12	-13.96884002	-1.34	0
19.1	-15.11	-36.91	-14.02583418	-1.08	0

19.2	-15.04	-36.84	-14	-1.04	0
19.3	-15.09	-36.89	-14	-1.09	0
19.4	-15.24	-37.05	-14	-1.24	0
19.5	-15.49	-37.29	-14	-1.49	0
19.6	-15.79	-37.60	-14	-1.79	0
19.7	-16.12	-37.93	-14	-2.12	0
19.8	-16.43	-38.24	-14	-2.43	0
19.9	-16.67	-38.47	-14	-2.67	0
20.0	-16.77	-38.57	-14	-2.77	0
20.1	-16.70	-38.51	-14	-2.70	0
20.2	-16.46	-38.27	-14	-2.46	0
20.3	-16.08	-37.88	-14	-2.08	0
20.4	-15.60	-37.41	-14	-1.60	0
20.5	-15.09	-36.89	-14	-1.09	0
20.6	-14.57	-36.37	-14	-0.57	0
20.7	-14.09	-35.89	-14	-0.09	0
20.8	-13.67	-35.47	-14	0.33	0
20.9	-13.31	-35.12	-14	0.69	0
21.0	-13.04	-34.84	-14	0.96	0
21.1	-12.84	-34.65	-14	1.16	0
21.2	-12.73	-34.54	-14	1.27	0
21.3	-12.71	-34.51	-14	1.29	0
21.4	-12.77	-34.57	-14	1.23	0
21.5	-12.91	-34.72	-14	1.09	0
21.6	-13.14	-34.95	-14	0.86	0
21.7	-13.46	-35.26	-14	0.54	0
21.8	-13.86	-35.66	-14	0.14	0
21.9	-14.34	-36.15	-14	-0.34	0
22.0	-14.92	-36.72	-14	-0.92	0
22.1	-15.57	-37.37	-14	-1.57	0
22.2	-16.31	-38.11	-14	-2.31	0
22.3	-17.12	-38.92	-14	-3.12	0
22.4	-18.00	-39.80	-14	-4.00	0
22.5	-18.92	-40.73	-14	-4.92	0
22.6	-19.87	-41.68	-14	-5.87	0
22.7	-20.81	-42.61	-14	-6.81	0
22.8	-21.68	-43.48	-14	-7.68	0
22.9	-22.43	-44.23	-14	-8.43	0
23.0	-23.00	-44.80	-14	-9.00	0
23.1	-23.35	-45.15	-14	-9.35	0
23.2	-23.49	-45.29	-14	-9.49	0
23.3	-23.43	-45.23	-14	-9.43	0
23.4	-23.20	-45.00	-14	-9.20	0
23.5	-22.83	-44.63	-14	-8.83	0
23.6	-22.34	-44.14	-14	-8.34	0
23.7	-21.76	-43.56	-14	-7.76	0
23.8	-21.10	-42.91	-14	-7.10	0
23.9	-20.39	-42.20	-14	-6.39	0
24.0	-19.65	-41.45	-14	-5.65	0
24.1	-18.89	-40.69	-14	-4.89	0

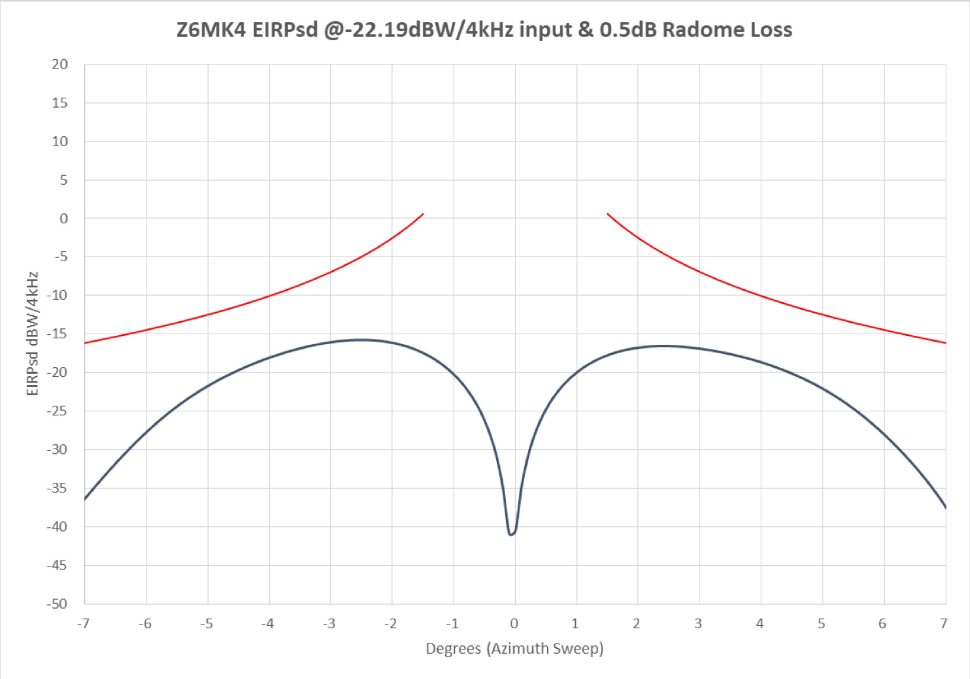
24.2	-18.15	-39.95	-14	-4.15	0
24.3	-17.43	-39.23	-14	-3.43	0
24.4	-16.75	-38.55	-14	-2.75	0
24.5	-16.12	-37.92	-14	-2.12	0
24.6	-15.55	-37.35	-14	-1.55	0
24.7	-15.03	-36.84	-14	-1.03	0
24.8	-14.59	-36.39	-14	-0.59	0
24.9	-14.21	-36.01	-14	-0.21	0
25.0	-13.90	-35.70	-14	0.10	0
25.1	-13.65	-35.45	-14	0.35	0
25.2	-13.47	-35.27	-14	0.53	0
25.3	-13.36	-35.16	-14	0.64	0
25.4	-13.31	-35.11	-14	0.69	0
25.5	-13.32	-35.13	-14	0.68	0
25.6	-13.40	-35.21	-14	0.60	0
25.7	-13.54	-35.35	-14	0.46	0
25.8	-13.75	-35.55	-14	0.25	0
25.9	-14.01	-35.81	-14	-0.01	0
26.0	-14.33	-36.13	-14	-0.33	0
26.1	-14.70	-36.50	-14	-0.70	0
26.2	-15.12	-36.92	-14	-1.12	0
26.3	-15.58	-37.38	-14	-1.58	0
26.4	-16.07	-37.87	-14	-2.07	0
26.5	-16.58	-38.38	-14	-2.58	0
26.6	-17.10	-38.90	-14	-3.10	0
26.7	-17.60	-39.40	-14	-3.60	0
26.8	-18.07	-39.87	-14	-4.07	0
26.9	-18.47	-40.27	-14	-4.47	0
27.0	-18.79	-40.60	-14	-4.79	0
27.1	-19.01	-40.81	-14	-5.01	0
27.2	-19.12	-40.92	-14	-5.12	0
27.3	-19.11	-40.91	-14	-5.11	0
27.4	-18.99	-40.79	-14	-4.99	0
27.5	-18.77	-40.57	-14	-4.77	0
27.6	-18.46	-40.27	-14	-4.46	0
27.7	-18.09	-39.90	-14	-4.09	0
27.8	-17.66	-39.47	-14	-3.66	0
27.9	-17.19	-39.00	-14	-3.19	0
28.0	-16.69	-38.49	-14	-2.69	0
28.1	-16.17	-37.97	-14	-2.17	0
28.2	-15.64	-37.44	-14	-1.64	0
28.3	-15.10	-36.90	-14	-1.10	0
28.4	-14.57	-36.37	-14	-0.57	0
28.5	-14.06	-35.86	-14	-0.06	0
28.6	-13.56	-35.36	-14	0.44	0
28.7	-13.09	-34.90	-14	0.91	0
28.8	-12.65	-34.46	-14	1.35	0
28.9	-12.25	-34.05	-14	1.75	0
29.0	-11.88	-33.68	-14	2.12	0
29.1	-11.55	-33.35	-14	2.45	0

29.2	-11.26	-33.06	-14	2.74	0
29.3	-11.01	-32.82	-14	2.99	0
29.4	-10.81	-32.61	-14	3.19	0
29.5	-10.64	-32.45	-14	3.36	0
29.6	-10.52	-32.32	-14	3.48	0
29.7	-10.44	-32.24	-14	3.56	0
29.8	-10.40	-32.21	-14	3.60	0
29.9	-10.41	-32.21	-14	3.59	0
30.0	-10.45	-32.25	-14	3.55	0

2. Maximum cross-polarized EIRP density

4) 14GHz

a) At off-axis angles from ±7° range (Tangent)



Model	Z6MK4	Min input: (@all freq.)	-22.19
Frequency	14.00 [GHz]		
GSO arc	Tangent		
EIRPsd Input	-22.19 [dBW/4kHz]		
Radome Loss	0.5 [dB]		

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-25.10	-47.29	-24.40228148	-0.70	0
-14.9	-25.28	-47.47	-24.32965671	-0.95	0
-14.8	-25.38	-47.57	-24.25654288	-1.12	0
-14.7	-25.35	-47.54	-24.18293337	-1.17	0
-14.6	-25.17	-47.36	-24.10882139	-1.06	0
-14.5	-24.82	-47.02	-24.03420006	-0.79	0
-14.4	-24.32	-46.51	-23.9590623	-0.36	0
-14.3	-23.69	-45.88	-23.88340094	0.20	0
-14.2	-22.96	-45.15	-23.80720861	0.85	0
-14.1	-22.17	-44.37	-23.73047782	1.56	0
-14.0	-21.37	-43.56	-23.65320089	2.28	0
-13.9	-20.57	-42.76	-23.57537001	3.00	0
-13.8	-19.80	-41.99	-23.49697716	3.70	0
-13.7	-19.06	-41.25	-23.41801418	4.36	0
-13.6	-18.36	-40.55	-23.33847271	4.98	0
-13.5	-17.71	-39.90	-23.25834421	5.55	0
-13.4	-17.11	-39.30	-23.17761996	6.07	0
-13.3	-16.56	-38.75	-23.09629102	6.54	0
-13.2	-16.06	-38.25	-23.01434828	6.96	0
-13.1	-15.60	-37.79	-22.93178239	7.33	0
-13.0	-15.19	-37.38	-22.84858381	7.66	0
-12.9	-14.82	-37.01	-22.76474276	7.94	0
-12.8	-14.49	-36.68	-22.68024924	8.19	0
-12.7	-14.20	-36.39	-22.59509302	8.40	0
-12.6	-13.94	-36.13	-22.50926363	8.57	0
-12.5	-13.71	-35.90	-22.42275033	8.71	0
-12.4	-13.50	-35.69	-22.33554213	8.83	0
-12.3	-13.31	-35.50	-22.24762779	8.94	0
-12.2	-13.14	-35.33	-22.15899577	9.02	0
-12.1	-12.97	-35.16	-22.06963426	9.10	0
-12.0	-12.81	-35.00	-21.97953115	9.17	0
-11.9	-12.64	-34.84	-21.88867403	9.24	0
-11.8	-12.48	-34.67	-21.79705018	9.32	0
-11.7	-12.30	-34.49	-21.70464654	9.41	0
-11.6	-12.11	-34.30	-21.61144973	9.50	0
-11.5	-11.91	-34.10	-21.51744601	9.61	0
-11.4	-11.70	-33.89	-21.42262128	9.72	0
-11.3	-11.48	-33.67	-21.32696109	9.85	0
-11.2	-11.25	-33.45	-21.23045057	9.98	0
-11.1	-11.03	-33.22	-21.13307447	10.11	0
-11.0	-10.80	-32.99	-21.03481713	10.24	0
-10.9	-10.57	-32.77	-20.93566245	10.36	0

-10.8	-10.36	-32.55	-20.83559389	10.47	0
-10.7	-10.16	-32.35	-20.73459444	10.57	0
-10.6	-9.98	-32.17	-20.63264663	10.66	0
-10.5	-9.81	-32.01	-20.52973248	10.72	0
-10.4	-9.67	-31.87	-20.42583348	10.75	0
-10.3	-9.56	-31.75	-20.32093062	10.76	0
-10.2	-9.48	-31.67	-20.21500429	10.74	0
-10.1	-9.42	-31.61	-20.10803434	10.69	0
-10.0	-9.40	-31.59	-20	10.60	0
-9.9	-9.42	-31.61	-19.89087986	10.47	0
-9.8	-9.47	-31.66	-19.78065189	10.31	0
-9.7	-9.56	-31.76	-19.66929336	10.10	0
-9.6	-9.70	-31.89	-19.55678083	9.86	0
-9.5	-9.88	-32.07	-19.44309013	9.56	0
-9.4	-10.10	-32.30	-19.32819634	9.22	0
-9.3	-10.38	-32.57	-19.21207371	8.83	0
-9.2	-10.71	-32.90	-19.09469568	8.39	0
-9.1	-11.09	-33.28	-18.97603481	7.88	0
-9.0	-11.54	-33.73	-18.85606274	7.32	0
-8.9	-12.04	-34.23	-18.73475017	6.69	0
-8.8	-12.62	-34.81	-18.6120668	5.99	0
-8.7	-13.26	-35.46	-18.48798132	5.22	0
-8.6	-13.99	-36.18	-18.36246128	4.38	0
-8.5	-14.79	-36.98	-18.23547314	3.45	0
-8.4	-15.66	-37.85	-18.10698215	2.44	0
-8.3	-16.61	-38.80	-17.97695231	1.37	0
-8.2	-17.60	-39.79	-17.84534631	0.25	0
-8.1	-18.59	-40.78	-17.71212547	-0.88	0
-8.0	-19.49	-41.68	-17.57724967	-1.91	0
-7.9	-20.17	-42.36	-17.44067728	-2.73	0
-7.8	-20.49	-42.68	-17.30236507	-3.19	0
-7.7	-20.37	-42.56	-17.16226813	-3.20	0
-7.6	-19.84	-42.03	-17.02033981	-2.82	0
-7.5	-19.05	-41.24	-16.87653158	-2.17	0
-7.4	-18.10	-40.29	-16.73079299	-1.37	0
-7.3	-17.10	-39.29	-16.5830715	-0.52	0
-7.2	-16.09	-38.29	-16.43331241	0.34	0
-7.1	-15.10	-37.29	-16.28145872	1.18	0
-7.0	-14.13	-36.32	-16.127451	2.00	0
-6.9	-13.17	-35.37	-15.97122727	2.80	0
-6.8	-12.24	-34.43	-15.81272282	3.57	0
-6.7	-11.33	-33.52	-15.65187007	4.33	0
-6.6	-10.43	-32.62	-15.48859839	5.06	0
-6.5	-9.55	-31.74	-15.32283392	5.77	0
-6.4	-8.69	-30.89	-15.15449935	6.46	0
-6.3	-7.86	-30.05	-14.98351374	7.12	0
-6.2	-7.05	-29.24	-14.80979224	7.76	0
-6.1	-6.26	-28.46	-14.63324588	8.37	0
-6.0	-5.51	-27.70	-14.45378126	8.95	0
-5.9	-4.78	-26.97	-14.27130029	9.49	0

-5.8	-4.08	-26.27	-14.08569984	10.01	0
-5.7	-3.41	-25.60	-13.89687139	10.49	0
-5.6	-2.77	-24.96	-13.70470068	10.93	0
-5.5	-2.16	-24.35	-13.50906724	11.35	0
-5.4	-1.58	-23.77	-13.309844	11.73	0
-5.3	-1.03	-23.22	-13.10689674	12.08	0
-5.2	-0.50	-22.69	-12.90008359	12.40	0
-5.1	0.00	-22.19	-12.6892544	12.69	0
-5.0	0.48	-21.71	-12.47425011	12.95	0
-4.9	0.93	-21.26	-12.254902	13.19	0
-4.8	1.36	-20.83	-12.03103093	13.39	0
-4.7	1.77	-20.42	-11.80244645	13.58	0
-4.6	2.16	-20.03	-11.56894579	13.73	0
-4.5	2.54	-19.66	-11.33031284	13.87	0
-4.4	2.89	-19.30	-11.08631691	13.98	0
-4.3	3.23	-18.97	-10.83671139	14.06	0
-4.2	3.55	-18.64	-10.58123226	14.13	0
-4.1	3.85	-18.34	-10.31959642	14.17	0
-4.0	4.14	-18.05	-10.05149978	14.19	0
-3.9	4.41	-17.78	-9.776615176	14.19	0
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-3.6	5.14	-17.05	-8.907562519	14.05	0
-3.5	5.35	-16.84	-8.601701109	13.95	0
-3.4	5.55	-16.64	-8.286972926	13.83	0
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-3.2	5.89	-16.30	-7.628749458	13.52	0
-3.1	6.03	-16.16	-7.284042346	13.31	0
-3.0	6.15	-16.04	-6.928031368	13.08	0
-2.9	6.26	-15.93	-6.559949947	12.82	0
-2.8	6.34	-15.85	-6.178950784	12.52	0
-2.7	6.40	-15.79	-5.784094104	12.18	0
-2.6	6.44	-15.76	-5.374333699	11.81	0
-2.5	6.45	-15.74	-4.948500217	11.40	0
-2.4	6.43	-15.76	-4.505281043	10.94	0
-2.3	6.39	-15.80	-4.0431959	10.43	0
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-2.1	6.21	-15.98	-3.055482368	9.26	0
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-1.7	5.42	-16.78	-0.761223034	6.18	0
-1.6	5.11	-17.08	-0.102999566	5.21	0
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-1.4	4.34	-17.85			
-1.3	3.86	-18.33			
-1.2	3.31	-18.88			
-1.1	2.68	-19.51			
-1.0	1.96	-20.24			
-0.9	1.12	-21.07			

-0.8	0.14	-22.05			
-0.7	-1.00	-23.19			
-0.6	-2.36	-24.55			
-0.5	-4.02	-26.21			
-0.4	-6.12	-28.31			
-0.3	-8.89	-31.08			
-0.2	-12.86	-35.05			
-0.1	-18.67	-40.87			
0.0	-18.33	-40.52			
0.1	-12.64	-34.83			
0.2	-8.81	-31.00			
0.3	-6.14	-28.33			
0.4	-4.13	-26.32			
0.5	-2.54	-24.73			
0.6	-1.24	-23.43			
0.7	-0.15	-22.34			
0.8	0.77	-21.42			
0.9	1.56	-20.63			
1.0	2.24	-19.96			
1.1	2.82	-19.37			
1.2	3.33	-18.87			
1.3	3.76	-18.43			
1.4	4.14	-18.05			
1.5	4.46	-17.73	0.597718524	3.86	0
1.6	4.74	-17.45	-0.102999566	4.84	0
1.7	4.97	-17.22	-0.761223034	5.73	0
1.8	5.16	-17.03	-1.381812628	6.54	0
1.9	5.31	-16.88	-1.968840024	7.28	0
2.0	5.43	-16.76	-2.525749892	7.96	0
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2.2	5.59	-16.60	-3.560567021	9.15	0
2.3	5.63	-16.56	-4.0431959	9.67	0
2.4	5.64	-16.55	-4.505281043	10.15	0
2.5	5.63	-16.56	-4.948500217	10.58	0
2.6	5.60	-16.59	-5.374333699	10.98	0
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2.8	5.49	-16.70	-6.178950784	11.67	0
2.9	5.41	-16.78	-6.559949947	11.97	0
3.0	5.31	-16.88	-6.928031368	12.24	0
3.1	5.19	-17.00	-7.284042346	12.48	0
3.2	5.07	-17.13	-7.628749458	12.69	0
3.3	4.92	-17.27	-7.962848497	12.89	0
3.4	4.77	-17.42	-8.286972926	13.05	0
3.5	4.60	-17.59	-8.601701109	13.20	0
3.6	4.41	-17.78	-8.907562519	13.32	0
3.7	4.22	-17.98	-9.205043102	13.42	0
3.8	4.00	-18.19	-9.494589915	13.50	0
3.9	3.78	-18.41	-9.776615176	13.55	0
4.0	3.54	-18.65	-10.05149978	13.59	0
4.1	3.28	-18.91	-10.31959642	13.60	0

4.2	3.01	-19.18	-10.58123226	13.59	0
4.3	2.72	-19.47	-10.83671139	13.55	0
4.4	2.41	-19.78	-11.08631691	13.49	0
4.5	2.08	-20.11	-11.33031284	13.41	0
4.6	1.73	-20.46	-11.56894579	13.30	0
4.7	1.36	-20.83	-11.80244645	13.17	0
4.8	0.97	-21.22	-12.03103093	13.00	0
4.9	0.56	-21.63	-12.254902	12.81	0
5.0	0.12	-22.07	-12.47425011	12.59	0
5.1	-0.35	-22.54	-12.6892544	12.34	0
5.2	-0.84	-23.03	-12.90008359	12.06	0
5.3	-1.36	-23.55	-13.10689674	11.75	0
5.4	-1.90	-24.10	-13.309844	11.41	0
5.5	-2.48	-24.67	-13.50906724	11.03	0
5.6	-3.09	-25.28	-13.70470068	10.62	0
5.7	-3.72	-25.92	-13.89687139	10.17	0
5.8	-4.39	-26.58	-14.08569984	9.69	0
5.9	-5.09	-27.28	-14.27130029	9.18	0
6.0	-5.82	-28.02	-14.45378126	8.63	0
6.1	-6.59	-28.78	-14.63324588	8.05	0
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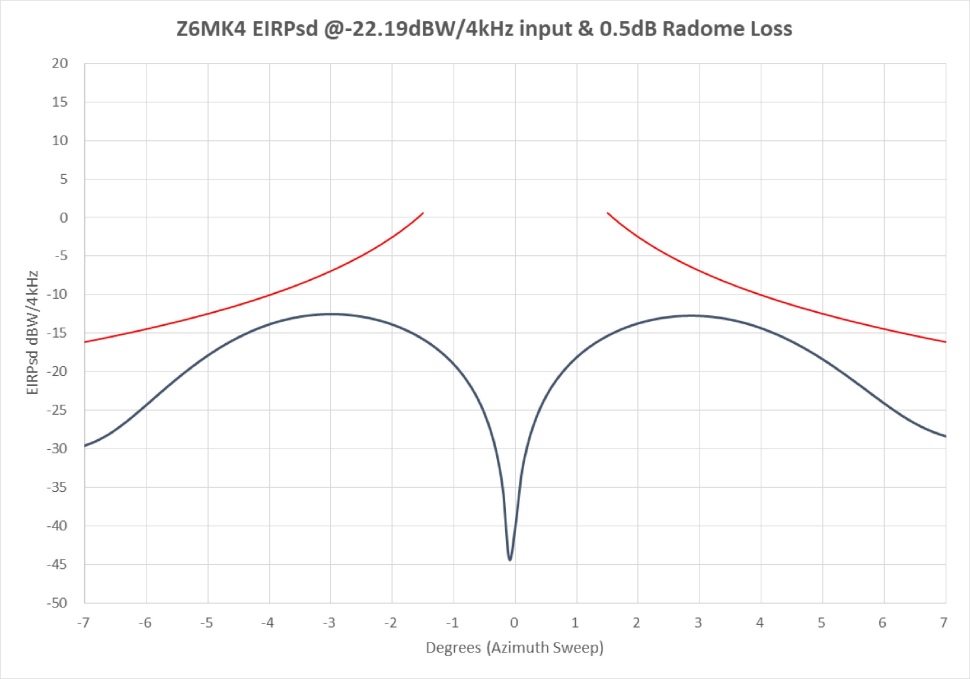
6.3	-8.21	-30.40	-14.98351374	6.77	0
6.4	-9.08	-31.27	-15.15449935	6.08	0
6.5	-9.98	-32.17	-15.32283392	5.35	0
6.6	-10.92	-33.11	-15.48859839	4.57	0
6.7	-11.90	-34.09	-15.65187007	3.75	0
6.8	-12.94	-35.13	-15.81272282	2.87	0
6.9	-14.04	-36.23	-15.97122727	1.93	0
7.0	-15.23	-37.42	-16.127451	0.90	0
7.1	-16.52	-38.71	-16.28145872	-0.24	0
7.2	-17.95	-40.14	-16.43331241	-1.51	0
7.3	-19.53	-41.72	-16.5830715	-2.95	0
7.4	-21.28	-43.48	-16.73079299	-4.55	0
7.5	-23.11	-45.31	-16.87653158	-6.24	0
7.6	-24.64	-46.83	-17.02033981	-7.62	0
7.7	-25.10	-47.29	-17.16226813	-7.94	0
7.8	-24.14	-46.33	-17.30236507	-6.83	0
7.9	-22.41	-44.60	-17.44067728	-4.97	0
8.0	-20.58	-42.77	-17.57724967	-3.00	0
8.1	-18.90	-41.09	-17.71212547	-1.19	0
8.2	-17.43	-39.62	-17.84534631	0.41	0
8.3	-16.15	-38.34	-17.97695231	1.82	0
8.4	-15.04	-37.23	-18.10698215	3.07	0
8.5	-14.07	-36.26	-18.23547314	4.17	0
8.6	-13.22	-35.41	-18.36246128	5.15	0
8.7	-12.47	-34.66	-18.48798132	6.01	0
8.8	-11.82	-34.02	-18.6120668	6.79	0
8.9	-11.26	-33.45	-18.73475017	7.47	0
9.0	-10.77	-32.96	-18.85606274	8.08	0
9.1	-10.36	-32.55	-18.97603481	8.62	0

9.2	-10.01	-32.20	-19.09469568	9.09	0
9.3	-9.71	-31.91	-19.21207371	9.50	0
9.4	-9.48	-31.67	-19.32819634	9.85	0
9.5	-9.30	-31.49	-19.44309013	10.14	0
9.6	-9.17	-31.36	-19.55678083	10.39	0
9.7	-9.09	-31.28	-19.66929336	10.58	0
9.8	-9.05	-31.24	-19.78065189	10.73	0
9.9	-9.05	-31.24	-19.89087986	10.84	0
10.0	-9.10	-31.29	-20	10.90	0
10.1	-9.18	-31.37	-20.10803434	10.93	0
10.2	-9.30	-31.49	-20.21500429	10.92	0
10.3	-9.44	-31.63	-20.32093062	10.88	0
10.4	-9.62	-31.81	-20.42583348	10.81	0
10.5	-9.82	-32.01	-20.52973248	10.71	0
10.6	-10.03	-32.22	-20.63264663	10.60	0
10.7	-10.26	-32.45	-20.73459444	10.48	0
10.8	-10.49	-32.68	-20.83559389	10.34	0
10.9	-10.73	-32.92	-20.93566245	10.21	0
11.0	-10.96	-33.15	-21.03481713	10.08	0
11.1	-11.17	-33.36	-21.13307447	9.96	0
11.2	-11.37	-33.56	-21.23045057	9.86	0
11.3	-11.55	-33.74	-21.32696109	9.78	0
11.4	-11.70	-33.89	-21.42262128	9.72	0
11.5	-11.83	-34.02	-21.51744601	9.69	0
11.6	-11.94	-34.13	-21.61144973	9.67	0
11.7	-12.03	-34.22	-21.70464654	9.68	0
11.8	-12.10	-34.29	-21.79705018	9.70	0
11.9	-12.17	-34.36	-21.88867403	9.72	0
12.0	-12.23	-34.42	-21.97953115	9.75	0
12.1	-12.29	-34.49	-22.06963426	9.78	0
12.2	-12.37	-34.56	-22.15899577	9.79	0
12.3	-12.46	-34.65	-22.24762779	9.79	0
12.4	-12.56	-34.75	-22.33554213	9.77	0
12.5	-12.69	-34.88	-22.42275033	9.73	0
12.6	-12.84	-35.03	-22.50926363	9.67	0
12.7	-13.02	-35.21	-22.59509302	9.57	0
12.8	-13.23	-35.42	-22.68024924	9.45	0
12.9	-13.47	-35.66	-22.76474276	9.30	0
13.0	-13.74	-35.93	-22.84858381	9.11	0
13.1	-14.03	-36.23	-22.93178239	8.90	0
13.2	-14.36	-36.55	-23.01434828	8.65	0
13.3	-14.72	-36.91	-23.09629102	8.38	0
13.4	-15.10	-37.29	-23.17761996	8.08	0
13.5	-15.50	-37.69	-23.25834421	7.76	0
13.6	-15.92	-38.11	-23.33847271	7.42	0
13.7	-16.35	-38.54	-23.41801418	7.07	0
13.8	-16.78	-38.97	-23.49697716	6.72	0
13.9	-17.21	-39.40	-23.57537001	6.37	0
14.0	-17.62	-39.81	-23.65320089	6.03	0
14.1	-18.00	-40.19	-23.73047782	5.73	0

14.2	-18.34	-40.54	-23.80720861	5.46	0
14.3	-18.63	-40.82	-23.88340094	5.25	0
14.4	-18.86	-41.05	-23.9590623	5.10	0
14.5	-19.02	-41.21	-24.03420006	5.01	0
14.6	-19.11	-41.30	-24.10882139	5.00	0
14.7	-19.14	-41.33	-24.18293337	5.04	0
14.8	-19.12	-41.31	-24.25654288	5.14	0
14.9	-19.05	-41.24	-24.32965671	5.28	0
15.0	-18.96	-41.15	-24.40228148	5.45	0

6) 14.5GHz

a) At off-axis angles from ±7° range (Tangent)



Model	Z6MK4		Min input: (@all freq.) -22.19
Frequency	14.50	[GHz]	
GSO arc	Tangent		
EIRPsd Input	-21.80	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-16.22	-38.02	-24.40228148	8.18	0
-14.9	-16.19	-37.99	-24.32965671	8.14	0
-14.8	-16.14	-37.95	-24.25654288	8.11	0
-14.7	-16.08	-37.89	-24.18293337	8.10	0
-14.6	-15.99	-37.80	-24.10882139	8.11	0
-14.5	-15.87	-37.67	-24.03420006	8.17	0
-14.4	-15.70	-37.50	-23.9590623	8.26	0
-14.3	-15.48	-37.29	-23.88340094	8.40	0
-14.2	-15.22	-37.03	-23.80720861	8.58	0
-14.1	-14.93	-36.73	-23.73047782	8.81	0
-14.0	-14.60	-36.40	-23.65320089	9.06	0
-13.9	-14.25	-36.05	-23.57537001	9.32	0
-13.8	-13.90	-35.70	-23.49697716	9.60	0
-13.7	-13.55	-35.36	-23.41801418	9.87	0
-13.6	-13.22	-35.02	-23.33847271	10.12	0
-13.5	-12.91	-34.72	-23.25834421	10.34	0
-13.4	-12.64	-34.44	-23.17761996	10.54	0
-13.3	-12.40	-34.21	-23.09629102	10.69	0
-13.2	-12.21	-34.01	-23.01434828	10.81	0
-13.1	-12.06	-33.86	-22.93178239	10.87	0
-13.0	-11.96	-33.76	-22.84858381	10.89	0
-12.9	-11.91	-33.71	-22.76474276	10.86	0
-12.8	-11.91	-33.71	-22.68024924	10.77	0
-12.7	-11.96	-33.77	-22.59509302	10.63	0
-12.6	-12.07	-33.87	-22.50926363	10.44	0
-12.5	-12.23	-34.03	-22.42275033	10.19	0
-12.4	-12.44	-34.24	-22.33554213	9.90	0
-12.3	-12.70	-34.50	-22.24762779	9.55	0
-12.2	-13.01	-34.81	-22.15899577	9.15	0
-12.1	-13.37	-35.17	-22.06963426	8.70	0
-12.0	-13.76	-35.57	-21.97953115	8.22	0
-11.9	-14.20	-36.00	-21.88867403	7.69	0
-11.8	-14.65	-36.46	-21.79705018	7.14	0
-11.7	-15.13	-36.93	-21.70464654	6.58	0
-11.6	-15.61	-37.41	-21.61144973	6.00	0
-11.5	-16.07	-37.88	-21.51744601	5.44	0
-11.4	-16.52	-38.32	-21.42262128	4.90	0
-11.3	-16.93	-38.73	-21.32696109	4.40	0
-11.2	-17.29	-39.09	-21.23045057	3.94	0
-11.1	-17.60	-39.41	-21.13307447	3.53	0
-11.0	-17.88	-39.68	-21.03481713	3.15	0
-10.9	-18.13	-39.93	-20.93566245	2.81	0

-10.8	-18.37	-40.17	-20.83559389	2.47	0
-10.7	-18.62	-40.42	-20.73459444	2.12	0
-10.6	-18.90	-40.71	-20.63264663	1.73	0
-10.5	-19.24	-41.04	-20.52973248	1.29	0
-10.4	-19.64	-41.45	-20.42583348	0.78	0
-10.3	-20.13	-41.93	-20.32093062	0.19	0
-10.2	-20.69	-42.49	-20.21500429	-0.47	0
-10.1	-21.30	-43.10	-20.10803434	-1.19	0
-10.0	-21.90	-43.71	-20	-1.90	0
-9.9	-22.37	-44.17	-19.89087986	-2.48	0
-9.8	-22.53	-44.34	-19.78065189	-2.75	0
-9.7	-22.24	-44.04	-19.66929336	-2.57	0
-9.6	-21.47	-43.28	-19.55678083	-1.92	0
-9.5	-20.38	-42.18	-19.44309013	-0.94	0
-9.4	-19.14	-40.94	-19.32819634	0.19	0
-9.3	-17.88	-39.68	-19.21207371	1.33	0
-9.2	-16.68	-38.48	-19.09469568	2.42	0
-9.1	-15.57	-37.37	-18.97603481	3.41	0
-9.0	-14.57	-36.37	-18.85606274	4.29	0
-8.9	-13.66	-35.47	-18.73475017	5.07	0
-8.8	-12.86	-34.66	-18.6120668	5.75	0
-8.7	-12.15	-33.95	-18.48798132	6.34	0
-8.6	-11.52	-33.33	-18.36246128	6.84	0
-8.5	-10.98	-32.78	-18.23547314	7.26	0
-8.4	-10.51	-32.31	-18.10698215	7.60	0
-8.3	-10.10	-31.91	-17.97695231	7.87	0
-8.2	-9.76	-31.56	-17.84534631	8.08	0
-8.1	-9.47	-31.28	-17.71212547	8.24	0
-8.0	-9.24	-31.04	-17.57724967	8.34	0
-7.9	-9.04	-30.85	-17.44067728	8.40	0
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-7.1	-7.99	-29.79	-16.28145872	8.29	0
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-6.9	-7.47	-29.27	-15.97122727	8.50	0
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-6.7	-6.71	-28.51	-15.65187007	8.94	0
-6.6	-6.23	-28.04	-15.48859839	9.25	0
-6.5	-5.70	-27.51	-15.32283392	9.62	0
-6.4	-5.12	-26.92	-15.15449935	10.03	0
-6.3	-4.50	-26.30	-14.98351374	10.48	0
-6.2	-3.85	-25.65	-14.80979224	10.96	0
-6.1	-3.17	-24.97	-14.63324588	11.46	0
-6.0	-2.48	-24.28	-14.45378126	11.97	0
-5.9	-1.79	-23.59	-14.27130029	12.49	0

-5.8	-1.09	-22.89	-14.08569984	12.99	0
-5.7	-0.40	-22.21	-13.89687139	13.49	0
-5.6	0.27	-21.53	-13.70470068	13.98	0
-5.5	0.93	-20.87	-13.50906724	14.44	0
-5.4	1.58	-20.22	-13.309844	14.89	0
-5.3	2.20	-19.60	-13.10689674	15.31	0
-5.2	2.80	-19.00	-12.90008359	15.70	0
-5.1	3.38	-18.42	-12.6892544	16.07	0
-5.0	3.93	-17.87	-12.47425011	16.40	0
-4.9	4.46	-17.35	-12.254902	16.71	0
-4.8	4.96	-16.85	-12.03103093	16.99	0
-4.7	5.43	-16.38	-11.80244645	17.23	0
-4.6	5.87	-15.93	-11.56894579	17.44	0
-4.5	6.29	-15.51	-11.33031284	17.62	0
-4.4	6.68	-15.13	-11.08631691	17.76	0
-4.3	7.04	-14.76	-10.83671139	17.88	0
-4.2	7.37	-14.43	-10.58123226	17.95	0
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-4.0	7.96	-13.84	-10.05149978	18.01	0
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-3.4	9.07	-12.73	-8.286972926	17.36	0
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-3.2	9.23	-12.58	-7.628749458	16.86	0
-3.1	9.27	-12.54	-7.284042346	16.55	0
-3.0	9.28	-12.52	-6.928031368	16.21	0
-2.9	9.27	-12.53	-6.559949947	15.83	0
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-2.6	9.07	-12.73	-5.374333699	14.45	0
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-2.2	8.43	-13.38	-3.560567021	11.99	0
-2.1	8.19	-13.61	-3.055482368	11.25	0
-2.0	7.92	-13.88	-2.525749892	10.45	0
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-1.6	6.49	-15.32	-0.102999566	6.59	0
-1.5	6.02	-15.78	0.597718524	5.42	0
-1.4	5.50	-16.30			
-1.3	4.93	-16.87			
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-1.1	3.57	-18.24			
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-0.2	-13.70	-35.50			
-0.1	-22.51	-44.32			
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0.1	-11.51	-33.32			
0.2	-7.66	-29.47			
0.3	-5.01	-26.81			
0.4	-2.99	-24.80			
0.5	-1.38	-23.18			
0.6	-0.04	-21.84			
0.7	1.10	-20.71			
0.8	2.08	-19.72			
0.9	2.94	-18.86			
1.0	3.70	-18.10			
1.1	4.38	-17.42			
1.2	4.99	-16.81			
1.3	5.53	-16.27			
1.4	6.03	-15.78			
1.5	6.47	-15.34	0.597718524	5.87	0
1.6	6.87	-14.94	-0.102999566	6.97	0
1.7	7.23	-14.58	-0.761223034	7.99	0
1.8	7.55	-14.26	-1.381812628	8.93	0
1.9	7.83	-13.97	-1.968840024	9.80	0
2.0	8.09	-13.72	-2.525749892	10.61	0
2.1	8.31	-13.49	-3.055482368	11.36	0
2.2	8.50	-13.30	-3.560567021	12.06	0
2.3	8.66	-13.14	-4.0431959	12.71	0
2.4	8.80	-13.00	-4.505281043	13.31	0
2.5	8.91	-12.89	-4.948500217	13.86	0
2.6	8.99	-12.81	-5.374333699	14.36	0
2.7	9.04	-12.76	-5.784094104	14.83	0
2.8	9.07	-12.73	-6.178950784	15.25	0
2.9	9.08	-12.73	-6.559949947	15.64	0
3.0	9.05	-12.75	-6.928031368	15.98	0
3.1	9.01	-12.80	-7.284042346	16.29	0
3.2	8.93	-12.87	-7.628749458	16.56	0
3.3	8.83	-12.97	-7.962848497	16.80	0
3.4	8.71	-13.09	-8.286972926	17.00	0
3.5	8.56	-13.24	-8.601701109	17.16	0
3.6	8.39	-13.41	-8.907562519	17.30	0
3.7	8.19	-13.61	-9.205043102	17.39	0
3.8	7.97	-13.84	-9.494589915	17.46	0
3.9	7.72	-14.08	-9.776615176	17.49	0
4.0	7.45	-14.36	-10.05149978	17.50	0
4.1	7.15	-14.66	-10.31959642	17.47	0

4.2	6.83	-14.98	-10.58123226	17.41	0
4.3	6.48	-15.32	-10.83671139	17.32	0
4.4	6.11	-15.69	-11.08631691	17.20	0
4.5	5.72	-16.09	-11.33031284	17.05	0
4.6	5.30	-16.50	-11.56894579	16.87	0
4.7	4.86	-16.94	-11.80244645	16.66	0
4.8	4.40	-17.41	-12.03103093	16.43	0
4.9	3.91	-17.89	-12.254902	16.17	0
5.0	3.41	-18.39	-12.47425011	15.89	0
5.1	2.89	-18.91	-12.6892544	15.58	0
5.2	2.35	-19.45	-12.90008359	15.25	0
5.3	1.80	-20.01	-13.10689674	14.90	0
5.4	1.23	-20.58	-13.309844	14.54	0
5.5	0.65	-21.16	-13.50906724	14.16	0
5.6	0.06	-21.74	-13.70470068	13.76	0
5.7	-0.53	-22.34	-13.89687139	13.36	0
5.8	-1.13	-22.93	-14.08569984	12.96	0
5.9	-1.72	-23.52	-14.27130029	12.55	0
6.0	-2.30	-24.10	-14.45378126	12.15	0
6.1	-2.87	-24.67	-14.63324588	11.76	0
6.2	-3.42	-25.22	-14.80979224	11.39	0
6.3	-3.95	-25.75	-14.98351374	11.04	0
6.4	-4.44	-26.24	-15.15449935	10.72	0
6.5	-4.89	-26.70	-15.32283392	10.43	0
6.6	-5.31	-27.11	-15.48859839	10.18	0
6.7	-5.68	-27.49	-15.65187007	9.97	0
6.8	-6.02	-27.82	-15.81272282	9.80	0
6.9	-6.31	-28.11	-15.97122727	9.67	0
7.0	-6.56	-28.36	-16.127451	9.57	0
7.1	-6.79	-28.59	-16.28145872	9.49	0
7.2	-6.99	-28.80	-16.43331241	9.44	0
7.3	-7.19	-28.99	-16.5830715	9.39	0
7.4	-7.38	-29.18	-16.73079299	9.35	0
7.5	-7.58	-29.38	-16.87653158	9.30	0
7.6	-7.79	-29.60	-17.02033981	9.23	0
7.7	-8.03	-29.83	-17.16226813	9.13	0
7.8	-8.30	-30.10	-17.30236507	9.00	0
7.9	-8.60	-30.41	-17.44067728	8.84	0
8.0	-8.95	-30.76	-17.57724967	8.62	0
8.1	-9.35	-31.16	-17.71212547	8.36	0
8.2	-9.81	-31.61	-17.84534631	8.04	0
8.3	-10.32	-32.13	-17.97695231	7.65	0
8.4	-10.90	-32.71	-18.10698215	7.20	0
8.5	-11.56	-33.36	-18.23547314	6.68	0
8.6	-12.29	-34.09	-18.36246128	6.08	0
8.7	-13.10	-34.90	-18.48798132	5.39	0
8.8	-14.00	-35.80	-18.6120668	4.61	0
8.9	-15.00	-36.80	-18.73475017	3.73	0
9.0	-16.11	-37.91	-18.85606274	2.75	0
9.1	-17.33	-39.13	-18.97603481	1.65	0

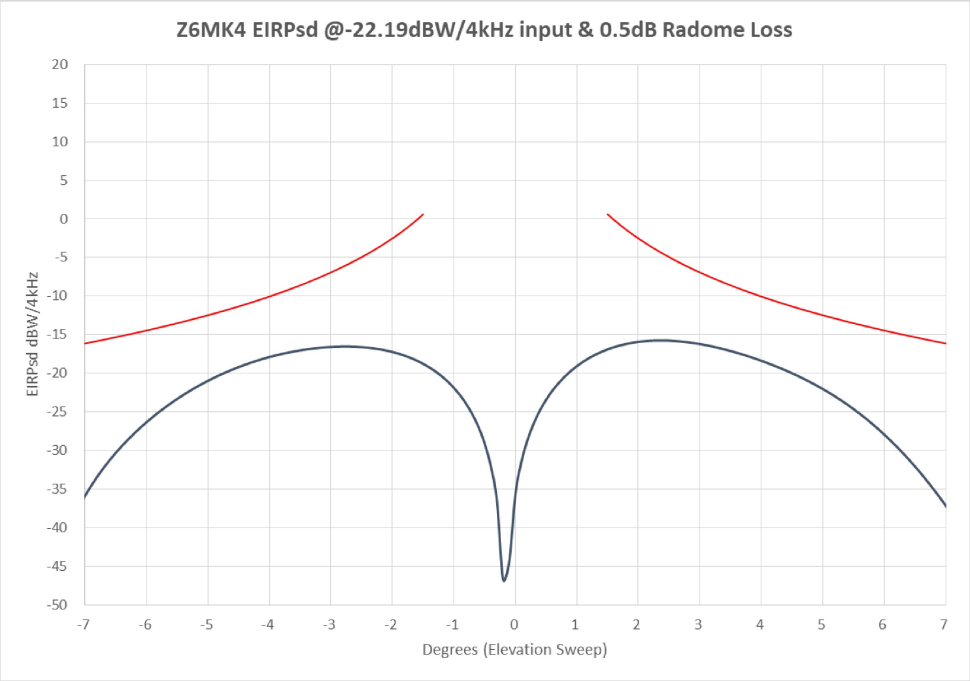
9.2	-18.66	-40.46	-19.09469568	0.43	0
9.3	-20.12	-41.92	-19.21207371	-0.90	0
9.4	-21.68	-43.48	-19.32819634	-2.35	0
9.5	-23.32	-45.13	-19.44309013	-3.88	0
9.6	-24.97	-46.77	-19.55678083	-5.41	0
9.7	-26.48	-48.28	-19.66929336	-6.81	0
9.8	-27.67	-49.47	-19.78065189	-7.89	0
9.9	-28.41	-50.21	-19.89087986	-8.51	0
10.0	-28.69	-50.50	-20	-8.69	0
10.1	-28.68	-50.48	-20.10803434	-8.57	0
10.2	-28.49	-50.30	-20.21500429	-8.28	0
10.3	-28.23	-50.03	-20.32093062	-7.91	0
10.4	-27.87	-49.68	-20.42583348	-7.45	0
10.5	-27.38	-49.18	-20.52973248	-6.85	0
10.6	-26.70	-48.50	-20.63264663	-6.07	0
10.7	-25.82	-47.62	-20.73459444	-5.08	0
10.8	-24.76	-46.57	-20.83559389	-3.93	0
10.9	-23.60	-45.41	-20.93566245	-2.67	0
11.0	-22.41	-44.21	-21.03481713	-1.37	0
11.1	-21.23	-43.04	-21.13307447	-0.10	0
11.2	-20.11	-41.91	-21.23045057	1.12	0
11.3	-19.06	-40.86	-21.32696109	2.27	0
11.4	-18.09	-39.89	-21.42262128	3.33	0
11.5	-17.20	-39.00	-21.51744601	4.32	0
11.6	-16.40	-38.20	-21.61144973	5.21	0
11.7	-15.67	-37.48	-21.70464654	6.03	0
11.8	-15.02	-36.83	-21.79705018	6.77	0
11.9	-14.45	-36.25	-21.88867403	7.44	0
12.0	-13.94	-35.74	-21.97953115	8.04	0
12.1	-13.49	-35.29	-22.06963426	8.58	0
12.2	-13.10	-34.90	-22.15899577	9.06	0
12.3	-12.77	-34.57	-22.24762779	9.48	0
12.4	-12.49	-34.30	-22.33554213	9.84	0
12.5	-12.26	-34.07	-22.42275033	10.16	0
12.6	-12.08	-33.89	-22.50926363	10.43	0
12.7	-11.94	-33.75	-22.59509302	10.65	0
12.8	-11.85	-33.65	-22.68024924	10.83	0
12.9	-11.79	-33.59	-22.76474276	10.98	0
13.0	-11.76	-33.56	-22.84858381	11.09	0
13.1	-11.77	-33.57	-22.93178239	11.16	0
13.2	-11.80	-33.61	-23.01434828	11.21	0
13.3	-11.87	-33.67	-23.09629102	11.23	0
13.4	-11.95	-33.76	-23.17761996	11.22	0
13.5	-12.06	-33.86	-23.25834421	11.20	0
13.6	-12.19	-33.99	-23.33847271	11.15	0
13.7	-12.33	-34.14	-23.41801418	11.08	0
13.8	-12.49	-34.30	-23.49697716	11.00	0
13.9	-12.67	-34.47	-23.57537001	10.91	0
14.0	-12.85	-34.66	-23.65320089	10.80	0
14.1	-13.05	-34.85	-23.73047782	10.68	0

14.2	-13.26	-35.06	-23.80720861	10.55	0
14.3	-13.48	-35.28	-23.88340094	10.41	0
14.4	-13.71	-35.51	-23.9590623	10.25	0
14.5	-13.95	-35.75	-24.03420006	10.09	0
14.6	-14.20	-36.00	-24.10882139	9.91	0
14.7	-14.46	-36.26	-24.18293337	9.72	0
14.8	-14.73	-36.53	-24.25654288	9.53	0
14.9	-15.01	-36.81	-24.32965671	9.32	0
15.0	-15.30	-37.10	-24.40228148	9.11	0

2. Maximum cross-polarized EIRP density

4) 14GHz

b) At off-axis angles from ±7° range (Perpendicular)



Model	Z6MK4		Min input: (@all freq.) -22.19
Frequency	14.00	[GHz]	
GSO arc	Perpendicular		
EIRPsd Input	-22.19	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-19.11	-41.30	-24.40228148	5.30	0
-14.9	-18.79	-40.98	-24.32965671	5.54	0
-14.8	-18.46	-40.65	-24.25654288	5.80	0
-14.7	-18.12	-40.31	-24.18293337	6.06	0
-14.6	-17.78	-39.97	-24.10882139	6.33	0
-14.5	-17.44	-39.63	-24.03420006	6.59	0
-14.4	-17.10	-39.29	-23.9590623	6.86	0
-14.3	-16.77	-38.96	-23.88340094	7.11	0
-14.2	-16.44	-38.64	-23.80720861	7.36	0
-14.1	-16.13	-38.32	-23.73047782	7.60	0
-14.0	-15.82	-38.01	-23.65320089	7.84	0
-13.9	-15.52	-37.71	-23.57537001	8.06	0
-13.8	-15.22	-37.42	-23.49697716	8.27	0
-13.7	-14.94	-37.13	-23.41801418	8.48	0
-13.6	-14.67	-36.86	-23.33847271	8.67	0
-13.5	-14.40	-36.60	-23.25834421	8.85	0
-13.4	-14.15	-36.34	-23.17761996	9.03	0
-13.3	-13.90	-36.09	-23.09629102	9.19	0
-13.2	-13.66	-35.86	-23.01434828	9.35	0
-13.1	-13.43	-35.63	-22.93178239	9.50	0
-13.0	-13.21	-35.41	-22.84858381	9.63	0
-12.9	-13.00	-35.19	-22.76474276	9.76	0
-12.8	-12.80	-34.99	-22.68024924	9.88	0
-12.7	-12.61	-34.80	-22.59509302	9.99	0
-12.6	-12.43	-34.62	-22.50926363	10.08	0
-12.5	-12.26	-34.45	-22.42275033	10.16	0
-12.4	-12.10	-34.29	-22.33554213	10.24	0
-12.3	-11.95	-34.14	-22.24762779	10.30	0
-12.2	-11.81	-34.00	-22.15899577	10.35	0
-12.1	-11.68	-33.87	-22.06963426	10.39	0
-12.0	-11.55	-33.75	-21.97953115	10.43	0
-11.9	-11.44	-33.63	-21.88867403	10.45	0
-11.8	-11.32	-33.51	-21.79705018	10.47	0
-11.7	-11.21	-33.40	-21.70464654	10.49	0
-11.6	-11.10	-33.29	-21.61144973	10.51	0
-11.5	-10.99	-33.18	-21.51744601	10.53	0
-11.4	-10.88	-33.07	-21.42262128	10.54	0
-11.3	-10.77	-32.96	-21.32696109	10.56	0
-11.2	-10.65	-32.84	-21.23045057	10.58	0
-11.1	-10.53	-32.72	-21.13307447	10.61	0
-11.0	-10.40	-32.60	-21.03481713	10.63	0
-10.9	-10.28	-32.47	-20.93566245	10.66	0

-10.8	-10.16	-32.35	-20.83559389	10.68	0
-10.7	-10.04	-32.23	-20.73459444	10.69	0
-10.6	-9.93	-32.12	-20.63264663	10.70	0
-10.5	-9.83	-32.02	-20.52973248	10.70	0
-10.4	-9.74	-31.93	-20.42583348	10.68	0
-10.3	-9.67	-31.86	-20.32093062	10.65	0
-10.2	-9.62	-31.81	-20.21500429	10.60	0
-10.1	-9.59	-31.78	-20.10803434	10.52	0
-10.0	-9.59	-31.78	-20	10.41	0
-9.9	-9.62	-31.81	-19.89087986	10.28	0
-9.8	-9.67	-31.86	-19.78065189	10.11	0
-9.7	-9.76	-31.96	-19.66929336	9.90	0
-9.6	-9.89	-32.08	-19.55678083	9.66	0
-9.5	-10.06	-32.25	-19.44309013	9.38	0
-9.4	-10.27	-32.46	-19.32819634	9.06	0
-9.3	-10.52	-32.71	-19.21207371	8.69	0
-9.2	-10.82	-33.01	-19.09469568	8.27	0
-9.1	-11.17	-33.37	-18.97603481	7.80	0
-9.0	-11.58	-33.77	-18.85606274	7.28	0
-8.9	-12.05	-34.24	-18.73475017	6.69	0
-8.8	-12.58	-34.77	-18.6120668	6.03	0
-8.7	-13.18	-35.38	-18.48798132	5.30	0
-8.6	-13.87	-36.06	-18.36246128	4.49	0
-8.5	-14.66	-36.85	-18.23547314	3.58	0
-8.4	-15.56	-37.75	-18.10698215	2.55	0
-8.3	-16.60	-38.79	-17.97695231	1.38	0
-8.2	-17.80	-40.00	-17.84534631	0.04	0
-8.1	-19.22	-41.41	-17.71212547	-1.51	0
-8.0	-20.90	-43.09	-17.57724967	-3.32	0
-7.9	-22.83	-45.02	-17.44067728	-5.39	0
-7.8	-24.83	-47.03	-17.30236507	-7.53	0
-7.7	-26.04	-48.23	-17.16226813	-8.88	0
-7.6	-25.30	-47.49	-17.02033981	-8.28	0
-7.5	-23.15	-45.34	-16.87653158	-6.28	0
-7.4	-20.80	-42.99	-16.73079299	-4.07	0
-7.3	-18.66	-40.85	-16.5830715	-2.08	0
-7.2	-16.79	-38.98	-16.43331241	-0.36	0
-7.1	-15.15	-37.34	-16.28145872	1.14	0
-7.0	-13.68	-35.88	-16.127451	2.44	0
-6.9	-12.37	-34.56	-15.97122727	3.60	0
-6.8	-11.17	-33.36	-15.81272282	4.64	0
-6.7	-10.07	-32.26	-15.65187007	5.58	0
-6.6	-9.05	-31.24	-15.48859839	6.44	0
-6.5	-8.10	-30.29	-15.32283392	7.22	0
-6.4	-7.21	-29.40	-15.15449935	7.94	0
-6.3	-6.38	-28.57	-14.98351374	8.61	0
-6.2	-5.59	-27.78	-14.80979224	9.22	0
-6.1	-4.84	-27.03	-14.63324588	9.79	0
-6.0	-4.14	-26.33	-14.45378126	10.32	0
-5.9	-3.47	-25.66	-14.27130029	10.80	0

-5.8	-2.83	-25.03	-14.08569984	11.25	0
-5.7	-2.23	-24.42	-13.89687139	11.67	0
-5.6	-1.66	-23.85	-13.70470068	12.05	0
-5.5	-1.11	-23.30	-13.50906724	12.40	0
-5.4	-0.60	-22.79	-13.309844	12.71	0
-5.3	-0.10	-22.30	-13.10689674	13.00	0
-5.2	0.36	-21.83	-12.90008359	13.26	0
-5.1	0.81	-21.39	-12.6892544	13.50	0
-5.0	1.23	-20.96	-12.47425011	13.70	0
-4.9	1.62	-20.57	-12.254902	13.88	0
-4.8	2.00	-20.19	-12.03103093	14.03	0
-4.7	2.36	-19.84	-11.80244645	14.16	0
-4.6	2.69	-19.50	-11.56894579	14.26	0
-4.5	3.01	-19.18	-11.33031284	14.34	0
-4.4	3.30	-18.89	-11.08631691	14.39	0
-4.3	3.58	-18.61	-10.83671139	14.42	0
-4.2	3.84	-18.35	-10.58123226	14.42	0
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-4.0	4.30	-17.89	-10.05149978	14.36	0
-3.9	4.51	-17.68	-9.776615176	14.29	0
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-3.6	5.03	-17.16	-8.907562519	13.93	0
-3.5	5.17	-17.02	-8.601701109	13.77	0
-3.4	5.29	-16.90	-8.286972926	13.58	0
-3.3	5.39	-16.80	-7.962848497	13.36	0
-3.2	5.48	-16.71	-7.628749458	13.11	0
-3.1	5.56	-16.64	-7.284042346	12.84	0
-3.0	5.61	-16.58	-6.928031368	12.54	0
-2.9	5.64	-16.55	-6.559949947	12.20	0
-2.8	5.66	-16.53	-6.178950784	11.84	0
-2.7	5.66	-16.53	-5.784094104	11.44	0
-2.6	5.63	-16.56	-5.374333699	11.01	0
-2.5	5.59	-16.61	-4.948500217	10.53	0
-2.4	5.52	-16.68	-4.505281043	10.02	0
-2.3	5.42	-16.77	-4.0431959	9.46	0
-2.2	5.30	-16.90	-3.560567021	8.86	0
-2.1	5.14	-17.05	-3.055482368	8.20	0
-2.0	4.96	-17.23	-2.525749892	7.48	0
-1.9	4.74	-17.45	-1.968840024	6.71	0
-1.8	4.48	-17.71	-1.381812628	5.86	0
-1.7	4.18	-18.02	-0.761223034	4.94	0
-1.6	3.83	-18.36	-0.102999566	3.93	0
-1.5	3.43	-18.77	0.597718524	2.83	0
-1.4	2.96	-19.23			
-1.3	2.43	-19.76			
-1.2	1.82	-20.37			
-1.1	1.12	-21.07			
-1.0	0.31	-21.89			
-0.9	-0.64	-22.84			

-0.8	-1.77	-23.96			
-0.7	-3.12	-25.31			
-0.6	-4.78	-26.97			
-0.5	-6.91	-29.10			
-0.4	-9.82	-32.02			
-0.3	-14.35	-36.54			
-0.2	-24.49	-46.68			
-0.1	-22.18	-44.38			
0.0	-13.48	-35.67			
0.1	-9.21	-31.40			
0.2	-6.38	-28.57			
0.3	-4.26	-26.46			
0.4	-2.60	-24.79			
0.5	-1.23	-23.42			
0.6	-0.08	-22.27			
0.7	0.90	-21.29			
0.8	1.75	-20.44			
0.9	2.48	-19.71			
1.0	3.13	-19.07			
1.1	3.69	-18.50			
1.2	4.18	-18.01			
1.3	4.60	-17.59			
1.4	4.98	-17.22			
1.5	5.30	-16.90	0.597718524	4.70	0
1.6	5.57	-16.62	-0.102999566	5.67	0
1.7	5.80	-16.39	-0.761223034	6.56	0
1.8	5.99	-16.20	-1.381812628	7.37	0
1.9	6.15	-16.04	-1.968840024	8.12	0
2.0	6.27	-15.92	-2.525749892	8.79	0
2.1	6.36	-15.84	-3.055482368	9.41	0
2.2	6.41	-15.78	-3.560567021	9.97	0
2.3	6.44	-15.75	-4.0431959	10.49	0
2.4	6.45	-15.74	-4.505281043	10.95	0
2.5	6.42	-15.77	-4.948500217	11.37	0
2.6	6.38	-15.81	-5.374333699	11.75	0
2.7	6.31	-15.88	-5.784094104	12.09	0
2.8	6.22	-15.97	-6.178950784	12.40	0
2.9	6.11	-16.08	-6.559949947	12.67	0
3.0	5.98	-16.21	-6.928031368	12.91	0
3.1	5.83	-16.36	-7.284042346	13.12	0
3.2	5.67	-16.52	-7.628749458	13.30	0
3.3	5.49	-16.70	-7.962848497	13.45	0
3.4	5.29	-16.90	-8.286972926	13.58	0
3.5	5.08	-17.11	-8.601701109	13.69	0
3.6	4.86	-17.33	-8.907562519	13.77	0
3.7	4.62	-17.57	-9.205043102	13.82	0
3.8	4.37	-17.83	-9.494589915	13.86	0
3.9	4.10	-18.09	-9.776615176	13.88	0
4.0	3.82	-18.37	-10.05149978	13.87	0
4.1	3.53	-18.67	-10.31959642	13.84	0

4.2	3.22	-18.97	-10.58123226	13.80	0
4.3	2.89	-19.30	-10.83671139	13.73	0
4.4	2.56	-19.63	-11.08631691	13.64	0
4.5	2.20	-19.99	-11.33031284	13.53	0
4.6	1.83	-20.36	-11.56894579	13.40	0
4.7	1.44	-20.75	-11.80244645	13.25	0
4.8	1.04	-21.15	-12.03103093	13.07	0
4.9	0.61	-21.58	-12.254902	12.87	0
5.0	0.16	-22.03	-12.47425011	12.64	0
5.1	-0.31	-22.50	-12.6892544	12.38	0
5.2	-0.80	-22.99	-12.90008359	12.10	0
5.3	-1.32	-23.51	-13.10689674	11.79	0
5.4	-1.86	-24.05	-13.309844	11.45	0
5.5	-2.43	-24.62	-13.50906724	11.08	0
5.6	-3.03	-25.22	-13.70470068	10.67	0
5.7	-3.66	-25.85	-13.89687139	10.24	0
5.8	-4.32	-26.51	-14.08569984	9.77	0
5.9	-5.01	-27.20	-14.27130029	9.26	0
6.0	-5.73	-27.93	-14.45378126	8.72	0
6.1	-6.49	-28.68	-14.63324588	8.14	0
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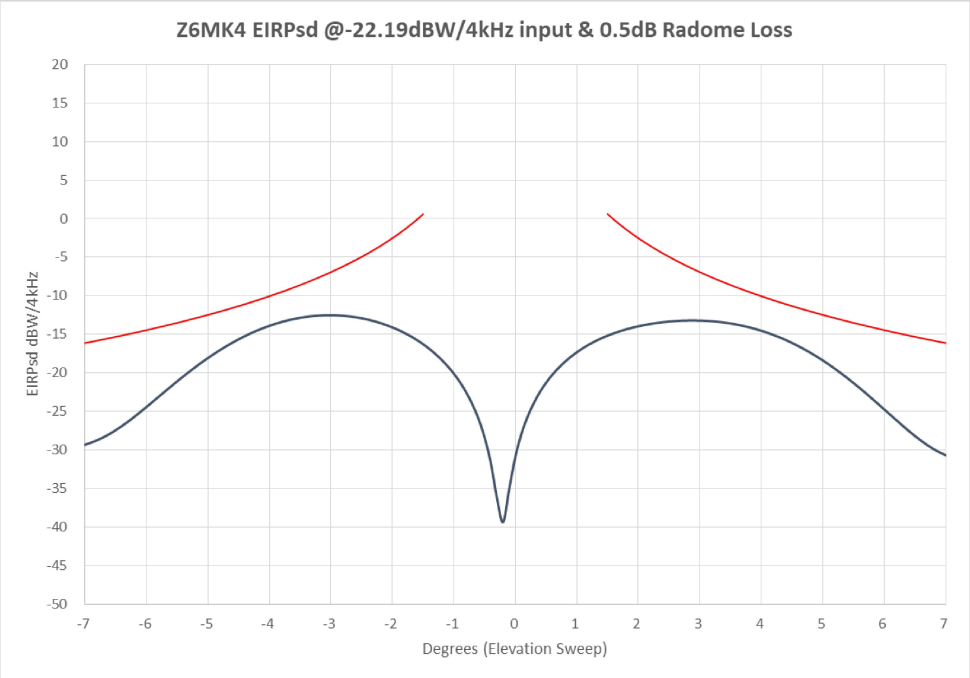
6.3	-8.11	-30.30	-14.98351374	6.87	0
6.4	-8.97	-31.16	-15.15449935	6.18	0
6.5	-9.87	-32.06	-15.32283392	5.45	0
6.6	-10.81	-33.00	-15.48859839	4.68	0
6.7	-11.78	-33.97	-15.65187007	3.87	0
6.8	-12.79	-34.98	-15.81272282	3.02	0
6.9	-13.85	-36.04	-15.97122727	2.12	0
7.0	-14.94	-37.14	-16.127451	1.18	0
7.1	-16.08	-38.27	-16.28145872	0.20	0
7.2	-17.26	-39.45	-16.43331241	-0.83	0
7.3	-18.46	-40.65	-16.5830715	-1.87	0
7.4	-19.64	-41.83	-16.73079299	-2.91	0
7.5	-20.75	-42.94	-16.87653158	-3.87	0
7.6	-21.65	-43.84	-17.02033981	-4.63	0
7.7	-22.20	-44.40	-17.16226813	-5.04	0
7.8	-22.28	-44.48	-17.30236507	-4.98	0
7.9	-21.90	-44.09	-17.44067728	-4.46	0
8.0	-21.17	-43.36	-17.57724967	-3.59	0
8.1	-20.26	-42.45	-17.71212547	-2.55	0
8.2	-19.29	-41.48	-17.84534631	-1.45	0
8.3	-18.34	-40.53	-17.97695231	-0.36	0
8.4	-17.43	-39.62	-18.10698215	0.68	0
8.5	-16.59	-38.78	-18.23547314	1.65	0
8.6	-15.81	-38.00	-18.36246128	2.56	0
8.7	-15.09	-37.29	-18.48798132	3.39	0
8.8	-14.44	-36.64	-18.6120668	4.17	0
8.9	-13.85	-36.04	-18.73475017	4.88	0
9.0	-13.31	-35.50	-18.85606274	5.54	0
9.1	-12.82	-35.02	-18.97603481	6.15	0

9.2	-12.38	-34.57	-19.09469568	6.71	0
9.3	-11.98	-34.17	-19.21207371	7.23	0
9.4	-11.62	-33.81	-19.32819634	7.71	0
9.5	-11.30	-33.49	-19.44309013	8.14	0
9.6	-11.01	-33.20	-19.55678083	8.55	0
9.7	-10.75	-32.94	-19.66929336	8.92	0
9.8	-10.53	-32.72	-19.78065189	9.25	0
9.9	-10.33	-32.52	-19.89087986	9.56	0
10.0	-10.16	-32.35	-20	9.84	0
10.1	-10.02	-32.21	-20.10803434	10.09	0
10.2	-9.90	-32.09	-20.21500429	10.31	0
10.3	-9.81	-32.00	-20.32093062	10.51	0
10.4	-9.74	-31.93	-20.42583348	10.69	0
10.5	-9.69	-31.88	-20.52973248	10.84	0
10.6	-9.66	-31.86	-20.63264663	10.97	0
10.7	-9.66	-31.85	-20.73459444	11.08	0
10.8	-9.67	-31.86	-20.83559389	11.16	0
10.9	-9.70	-31.89	-20.93566245	11.23	0
11.0	-9.75	-31.94	-21.03481713	11.29	0
11.1	-9.81	-32.00	-21.13307447	11.32	0
11.2	-9.88	-32.08	-21.23045057	11.35	0
11.3	-9.97	-32.16	-21.32696109	11.36	0
11.4	-10.06	-32.25	-21.42262128	11.36	0
11.5	-10.16	-32.35	-21.51744601	11.36	0
11.6	-10.27	-32.46	-21.61144973	11.34	0
11.7	-10.38	-32.57	-21.70464654	11.32	0
11.8	-10.49	-32.69	-21.79705018	11.30	0
11.9	-10.61	-32.80	-21.88867403	11.28	0
12.0	-10.73	-32.92	-21.97953115	11.25	0
12.1	-10.86	-33.05	-22.06963426	11.21	0
12.2	-10.99	-33.18	-22.15899577	11.17	0
12.3	-11.12	-33.32	-22.24762779	11.12	0
12.4	-11.27	-33.46	-22.33554213	11.07	0
12.5	-11.43	-33.62	-22.42275033	11.00	0
12.6	-11.60	-33.79	-22.50926363	10.91	0
12.7	-11.79	-33.98	-22.59509302	10.81	0
12.8	-11.99	-34.18	-22.68024924	10.69	0
12.9	-12.22	-34.41	-22.76474276	10.54	0
13.0	-12.48	-34.67	-22.84858381	10.37	0
13.1	-12.76	-34.95	-22.93178239	10.18	0
13.2	-13.06	-35.25	-23.01434828	9.95	0
13.3	-13.40	-35.59	-23.09629102	9.70	0
13.4	-13.77	-35.96	-23.17761996	9.41	0
13.5	-14.16	-36.35	-23.25834421	9.10	0
13.6	-14.58	-36.77	-23.33847271	8.76	0
13.7	-15.01	-37.21	-23.41801418	8.40	0
13.8	-15.46	-37.66	-23.49697716	8.03	0
13.9	-15.92	-38.11	-23.57537001	7.66	0
14.0	-16.37	-38.56	-23.65320089	7.29	0
14.1	-16.80	-38.99	-23.73047782	6.94	0

14.2	-17.19	-39.38	-23.80720861	6.62	0
14.3	-17.54	-39.73	-23.88340094	6.35	0
14.4	-17.83	-40.02	-23.9590623	6.13	0
14.5	-18.05	-40.25	-24.03420006	5.98	0
14.6	-18.22	-40.41	-24.10882139	5.89	0
14.7	-18.33	-40.52	-24.18293337	5.85	0
14.8	-18.40	-40.59	-24.25654288	5.86	0
14.9	-18.43	-40.63	-24.32965671	5.90	0
15.0	-18.46	-40.65	-24.40228148	5.94	0

6) 14.5GHz

b) At off-axis angles from ±7° range (Perpendicular)



Model	Z6MK4		Min input: (@all freq.) -22.19
Frequency	14.50	[GHz]	
GSO arc	Perpendicular		
EIRPsd Input	-21.80	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-14.36	-36.16	-24.40228148	10.04	0
-14.9	-14.29	-36.09	-24.32965671	10.04	0
-14.8	-14.24	-36.04	-24.25654288	10.02	0
-14.7	-14.21	-36.01	-24.18293337	9.97	0
-14.6	-14.19	-35.99	-24.10882139	9.92	0
-14.5	-14.17	-35.98	-24.03420006	9.86	0
-14.4	-14.15	-35.96	-23.9590623	9.80	0
-14.3	-14.12	-35.93	-23.88340094	9.76	0
-14.2	-14.08	-35.88	-23.80720861	9.73	0
-14.1	-14.01	-35.81	-23.73047782	9.72	0
-14.0	-13.92	-35.72	-23.65320089	9.74	0
-13.9	-13.81	-35.61	-23.57537001	9.77	0
-13.8	-13.68	-35.48	-23.49697716	9.82	0
-13.7	-13.53	-35.34	-23.41801418	9.88	0
-13.6	-13.39	-35.19	-23.33847271	9.95	0
-13.5	-13.25	-35.05	-23.25834421	10.01	0
-13.4	-13.12	-34.92	-23.17761996	10.06	0
-13.3	-13.01	-34.81	-23.09629102	10.09	0
-13.2	-12.93	-34.73	-23.01434828	10.08	0
-13.1	-12.89	-34.69	-22.93178239	10.04	0
-13.0	-12.89	-34.69	-22.84858381	9.96	0
-12.9	-12.94	-34.74	-22.76474276	9.83	0
-12.8	-13.04	-34.85	-22.68024924	9.64	0
-12.7	-13.21	-35.01	-22.59509302	9.39	0
-12.6	-13.43	-35.24	-22.50926363	9.08	0
-12.5	-13.73	-35.53	-22.42275033	8.69	0
-12.4	-14.10	-35.91	-22.33554213	8.23	0
-12.3	-14.55	-36.35	-22.24762779	7.70	0
-12.2	-15.08	-36.89	-22.15899577	7.08	0
-12.1	-15.70	-37.50	-22.06963426	6.37	0
-12.0	-16.40	-38.20	-21.97953115	5.58	0
-11.9	-17.18	-38.98	-21.88867403	4.71	0
-11.8	-18.01	-39.82	-21.79705018	3.78	0
-11.7	-18.88	-40.68	-21.70464654	2.82	0
-11.6	-19.72	-41.52	-21.61144973	1.89	0
-11.5	-20.44	-42.24	-21.51744601	1.08	0
-11.4	-20.94	-42.74	-21.42262128	0.48	0
-11.3	-21.15	-42.95	-21.32696109	0.18	0
-11.2	-21.06	-42.87	-21.23045057	0.17	0
-11.1	-20.75	-42.56	-21.13307447	0.38	0
-11.0	-20.33	-42.13	-21.03481713	0.71	0
-10.9	-19.88	-41.68	-20.93566245	1.06	0

-10.8	-19.48	-41.29	-20.83559389	1.35	0
-10.7	-19.18	-40.98	-20.73459444	1.55	0
-10.6	-19.00	-40.81	-20.63264663	1.63	0
-10.5	-18.97	-40.77	-20.52973248	1.56	0
-10.4	-19.09	-40.89	-20.42583348	1.34	0
-10.3	-19.39	-41.19	-20.32093062	0.93	0
-10.2	-19.90	-41.70	-20.21500429	0.32	0
-10.1	-20.65	-42.45	-20.10803434	-0.54	0
-10.0	-21.68	-43.49	-20	-1.68	0
-9.9	-23.08	-44.88	-19.89087986	-3.19	0
-9.8	-24.92	-46.72	-19.78065189	-5.14	0
-9.7	-27.18	-48.98	-19.66929336	-7.51	0
-9.6	-29.10	-50.90	-19.55678083	-9.54	0
-9.5	-28.60	-50.40	-19.44309013	-9.16	0
-9.4	-25.93	-47.73	-19.32819634	-6.60	0
-9.3	-23.10	-44.90	-19.21207371	-3.89	0
-9.2	-20.70	-42.51	-19.09469568	-1.61	0
-9.1	-18.72	-40.52	-18.97603481	0.25	0
-9.0	-17.07	-38.88	-18.85606274	1.78	0
-8.9	-15.68	-37.49	-18.73475017	3.05	0
-8.8	-14.50	-36.31	-18.6120668	4.11	0
-8.7	-13.49	-35.29	-18.48798132	5.00	0
-8.6	-12.62	-34.43	-18.36246128	5.74	0
-8.5	-11.87	-33.68	-18.23547314	6.36	0
-8.4	-11.23	-33.03	-18.10698215	6.88	0
-8.3	-10.68	-32.48	-17.97695231	7.30	0
-8.2	-10.21	-32.01	-17.84534631	7.64	0
-8.1	-9.81	-31.61	-17.71212547	7.91	0
-8.0	-9.47	-31.27	-17.57724967	8.11	0
-7.9	-9.18	-30.98	-17.44067728	8.26	0
-7.8	-8.94	-30.74	-17.30236507	8.36	0
-7.7	-8.74	-30.54	-17.16226813	8.43	0
-7.6	-8.56	-30.36	-17.02033981	8.46	0
-7.5	-8.40	-30.20	-16.87653158	8.47	0
-7.4	-8.25	-30.05	-16.73079299	8.48	0
-7.3	-8.10	-29.90	-16.5830715	8.48	0
-7.2	-7.93	-29.74	-16.43331241	8.50	0
-7.1	-7.74	-29.54	-16.28145872	8.54	0
-7.0	-7.51	-29.32	-16.127451	8.61	0
-6.9	-7.24	-29.05	-15.97122727	8.73	0
-6.8	-6.92	-28.72	-15.81272282	8.89	0
-6.7	-6.54	-28.35	-15.65187007	9.11	0
-6.6	-6.11	-27.91	-15.48859839	9.38	0
-6.5	-5.63	-27.43	-15.32283392	9.70	0
-6.4	-5.09	-26.89	-15.15449935	10.06	0
-6.3	-4.51	-26.32	-14.98351374	10.47	0
-6.2	-3.90	-25.71	-14.80979224	10.91	0
-6.1	-3.27	-25.07	-14.63324588	11.37	0
-6.0	-2.61	-24.41	-14.45378126	11.84	0
-5.9	-1.94	-23.75	-14.27130029	12.33	0

-5.8	-1.27	-23.07	-14.08569984	12.81	0
-5.7	-0.60	-22.40	-13.89687139	13.30	0
-5.6	0.07	-21.74	-13.70470068	13.77	0
-5.5	0.72	-21.08	-13.50906724	14.23	0
-5.4	1.36	-20.44	-13.309844	14.67	0
-5.3	1.99	-19.82	-13.10689674	15.09	0
-5.2	2.59	-19.21	-12.90008359	15.49	0
-5.1	3.18	-18.63	-12.6892544	15.87	0
-5.0	3.74	-18.06	-12.47425011	16.21	0
-4.9	4.28	-17.53	-12.254902	16.53	0
-4.8	4.79	-17.01	-12.03103093	16.82	0
-4.7	5.28	-16.53	-11.80244645	17.08	0
-4.6	5.74	-16.07	-11.56894579	17.31	0
-4.5	6.17	-15.63	-11.33031284	17.50	0
-4.4	6.58	-15.23	-11.08631691	17.66	0
-4.3	6.95	-14.85	-10.83671139	17.79	0
-4.2	7.30	-14.50	-10.58123226	17.88	0
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-3.6	8.80	-13.00	-8.907562519	17.71	0
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-3.3	9.17	-12.63	-7.962848497	17.13	0
-3.2	9.24	-12.57	-7.628749458	16.86	0
-3.1	9.27	-12.53	-7.284042346	16.56	0
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-2.9	9.26	-12.54	-6.559949947	15.82	0
-2.8	9.21	-12.59	-6.178950784	15.39	0
-2.7	9.13	-12.67	-5.784094104	14.92	0
-2.6	9.03	-12.78	-5.374333699	14.40	0
-2.5	8.89	-12.92	-4.948500217	13.84	0
-2.4	8.72	-13.09	-4.505281043	13.22	0
-2.3	8.51	-13.29	-4.0431959	12.56	0
-2.2	8.28	-13.52	-3.560567021	11.84	0
-2.1	8.01	-13.79	-3.055482368	11.07	0
-2.0	7.70	-14.10	-2.525749892	10.23	0
-1.9	7.36	-14.45	-1.968840024	9.33	0
-1.8	6.97	-14.83	-1.381812628	8.35	0
-1.7	6.54	-15.26	-0.761223034	7.30	0
-1.6	6.06	-15.75	-0.102999566	6.16	0
-1.5	5.52	-16.28	0.597718524	4.92	0
-1.4	4.92	-16.88			
-1.3	4.25	-17.55			
-1.2	3.50	-18.30			
-1.1	2.65	-19.15			
-1.0	1.69	-20.12			
-0.9	0.57	-21.23			

-0.8	-0.73	-22.53			
-0.7	-2.28	-24.08			
-0.6	-4.17	-25.98			
-0.5	-6.60	-28.40			
-0.4	-9.87	-31.67			
-0.3	-14.45	-36.25			
-0.2	-17.55	-39.36			
-0.1	-13.22	-35.03			
0.0	-9.04	-30.84			
0.1	-6.07	-27.87			
0.2	-3.85	-25.65			
0.3	-2.10	-23.90			
0.4	-0.67	-22.47			
0.5	0.53	-21.27			
0.6	1.55	-20.25			
0.7	2.44	-19.37			
0.8	3.21	-18.60			
0.9	3.89	-17.92			
1.0	4.49	-17.32			
1.1	5.02	-16.78			
1.2	5.49	-16.31			
1.3	5.92	-15.89			
1.4	6.30	-15.51			
1.5	6.63	-15.17	0.597718524	6.04	0
1.6	6.94	-14.87	-0.102999566	7.04	0
1.7	7.21	-14.60	-0.761223034	7.97	0
1.8	7.45	-14.36	-1.381812628	8.83	0
1.9	7.66	-14.14	-1.968840024	9.63	0
2.0	7.85	-13.96	-2.525749892	10.37	0
2.1	8.01	-13.79	-3.055482368	11.07	0
2.2	8.16	-13.65	-3.560567021	11.72	0
2.3	8.28	-13.53	-4.0431959	12.32	0
2.4	8.38	-13.42	-4.505281043	12.89	0
2.5	8.46	-13.34	-4.948500217	13.41	0
2.6	8.53	-13.28	-5.374333699	13.90	0
2.7	8.57	-13.23	-5.784094104	14.35	0
2.8	8.60	-13.21	-6.178950784	14.77	0
2.9	8.60	-13.20	-6.559949947	15.16	0
3.0	8.59	-13.21	-6.928031368	15.52	0
3.1	8.56	-13.25	-7.284042346	15.84	0
3.2	8.50	-13.30	-7.628749458	16.13	0
3.3	8.43	-13.38	-7.962848497	16.39	0
3.4	8.33	-13.47	-8.286972926	16.62	0
3.5	8.21	-13.59	-8.601701109	16.81	0
3.6	8.07	-13.73	-8.907562519	16.98	0
3.7	7.91	-13.90	-9.205043102	17.11	0
3.8	7.72	-14.08	-9.494589915	17.21	0
3.9	7.51	-14.30	-9.776615176	17.28	0
4.0	7.27	-14.53	-10.05149978	17.32	0
4.1	7.00	-14.80	-10.31959642	17.32	0

4.2	6.72	-15.09	-10.58123226	17.30	0
4.3	6.40	-15.40	-10.83671139	17.24	0
4.4	6.06	-15.75	-11.08631691	17.14	0
4.5	5.69	-16.12	-11.33031284	17.02	0
4.6	5.29	-16.51	-11.56894579	16.86	0
4.7	4.86	-16.94	-11.80244645	16.67	0
4.8	4.41	-17.39	-12.03103093	16.44	0
4.9	3.93	-17.87	-12.254902	16.19	0
5.0	3.42	-18.38	-12.47425011	15.90	0
5.1	2.89	-18.91	-12.6892544	15.58	0
5.2	2.33	-19.48	-12.90008359	15.23	0
5.3	1.74	-20.06	-13.10689674	14.85	0
5.4	1.13	-20.67	-13.309844	14.44	0
5.5	0.50	-21.31	-13.50906724	14.00	0
5.6	-0.16	-21.96	-13.70470068	13.54	0
5.7	-0.83	-22.64	-13.89687139	13.06	0
5.8	-1.52	-23.33	-14.08569984	12.56	0
5.9	-2.22	-24.03	-14.27130029	12.05	0
6.0	-2.93	-24.74	-14.45378126	11.52	0
6.1	-3.65	-25.45	-14.63324588	10.99	0
6.2	-4.35	-26.16	-14.80979224	10.46	0
6.3	-5.05	-26.85	-14.98351374	9.93	0
6.4	-5.73	-27.53	-15.15449935	9.42	0
6.5	-6.38	-28.18	-15.32283392	8.94	0
6.6	-6.99	-28.80	-15.48859839	8.49	0
6.7	-7.56	-29.36	-15.65187007	8.09	0
6.8	-8.07	-29.87	-15.81272282	7.75	0
6.9	-8.51	-30.31	-15.97122727	7.46	0
7.0	-8.88	-30.68	-16.127451	7.25	0
7.1	-9.17	-30.97	-16.28145872	7.11	0
7.2	-9.39	-31.20	-16.43331241	7.04	0
7.3	-9.55	-31.36	-16.5830715	7.03	0
7.4	-9.66	-31.46	-16.73079299	7.07	0
7.5	-9.72	-31.52	-16.87653158	7.16	0
7.6	-9.75	-31.56	-17.02033981	7.27	0
7.7	-9.77	-31.58	-17.16226813	7.39	0
7.8	-9.79	-31.60	-17.30236507	7.51	0
7.9	-9.82	-31.63	-17.44067728	7.62	0
8.0	-9.88	-31.68	-17.57724967	7.70	0
8.1	-9.96	-31.77	-17.71212547	7.75	0
8.2	-10.09	-31.90	-17.84534631	7.75	0
8.3	-10.27	-32.07	-17.97695231	7.71	0
8.4	-10.50	-32.31	-18.10698215	7.60	0
8.5	-10.80	-32.60	-18.23547314	7.44	0
8.6	-11.17	-32.97	-18.36246128	7.20	0
8.7	-11.61	-33.41	-18.48798132	6.88	0
8.8	-12.14	-33.94	-18.6120668	6.47	0
8.9	-12.77	-34.57	-18.73475017	5.97	0
9.0	-13.50	-35.31	-18.85606274	5.35	0
9.1	-14.36	-36.17	-18.97603481	4.61	0

9.2	-15.36	-37.17	-19.09469568	3.73	0
9.3	-16.53	-38.33	-19.21207371	2.68	0
9.4	-17.89	-39.70	-19.32819634	1.43	0
9.5	-19.50	-41.30	-19.44309013	-0.06	0
9.6	-21.40	-43.20	-19.55678083	-1.84	0
9.7	-23.65	-45.45	-19.66929336	-3.98	0
9.8	-26.22	-48.02	-19.78065189	-6.44	0
9.9	-28.62	-50.43	-19.89087986	-8.73	0
10.0	-29.46	-51.26	-20	-9.46	0
10.1	-28.22	-50.03	-20.10803434	-8.12	0
10.2	-26.36	-48.16	-20.21500429	-6.15	0
10.3	-24.72	-46.52	-20.32093062	-4.40	0
10.4	-23.44	-45.25	-20.42583348	-3.02	0
10.5	-22.50	-44.30	-20.52973248	-1.97	0
10.6	-21.83	-43.63	-20.63264663	-1.20	0
10.7	-21.39	-43.19	-20.73459444	-0.65	0
10.8	-21.12	-42.93	-20.83559389	-0.29	0
10.9	-21.00	-42.80	-20.93566245	-0.06	0
11.0	-20.97	-42.77	-21.03481713	0.06	0
11.1	-20.98	-42.79	-21.13307447	0.15	0
11.2	-20.98	-42.78	-21.23045057	0.26	0
11.3	-20.87	-42.68	-21.32696109	0.45	0
11.4	-20.62	-42.43	-21.42262128	0.80	0
11.5	-20.19	-41.99	-21.51744601	1.33	0
11.6	-19.58	-41.39	-21.61144973	2.03	0
11.7	-18.85	-40.66	-21.70464654	2.85	0
11.8	-18.05	-39.86	-21.79705018	3.74	0
11.9	-17.24	-39.04	-21.88867403	4.65	0
12.0	-16.45	-38.25	-21.97953115	5.53	0
12.1	-15.71	-37.51	-22.06963426	6.36	0
12.2	-15.03	-36.83	-22.15899577	7.13	0
12.3	-14.42	-36.22	-22.24762779	7.83	0
12.4	-13.89	-35.69	-22.33554213	8.45	0
12.5	-13.43	-35.23	-22.42275033	8.99	0
12.6	-13.05	-34.85	-22.50926363	9.46	0
12.7	-12.73	-34.54	-22.59509302	9.86	0
12.8	-12.49	-34.29	-22.68024924	10.19	0
12.9	-12.31	-34.11	-22.76474276	10.46	0
13.0	-12.19	-33.99	-22.84858381	10.66	0
13.1	-12.12	-33.93	-22.93178239	10.81	0
13.2	-12.11	-33.91	-23.01434828	10.90	0
13.3	-12.14	-33.95	-23.09629102	10.95	0
13.4	-12.22	-34.02	-23.17761996	10.96	0
13.5	-12.33	-34.13	-23.25834421	10.93	0
13.6	-12.46	-34.26	-23.33847271	10.88	0
13.7	-12.61	-34.42	-23.41801418	10.80	0
13.8	-12.78	-34.58	-23.49697716	10.72	0
13.9	-12.94	-34.75	-23.57537001	10.63	0
14.0	-13.10	-34.91	-23.65320089	10.55	0
14.1	-13.25	-35.05	-23.73047782	10.48	0

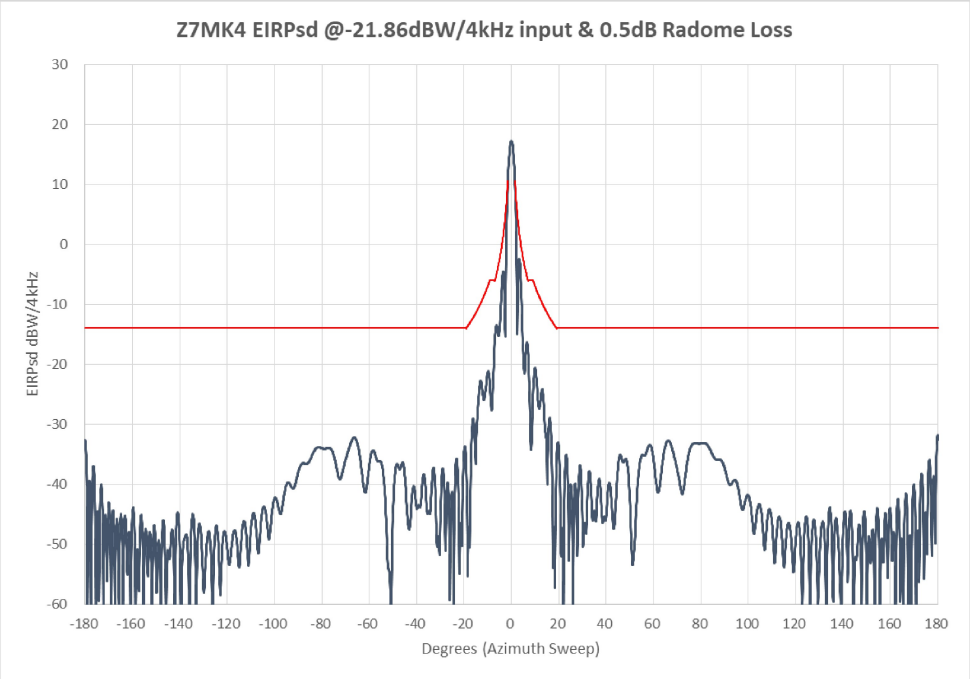
14.2	-13.38	-35.18	-23.80720861	10.43	0
14.3	-13.48	-35.28	-23.88340094	10.40	0
14.4	-13.57	-35.37	-23.9590623	10.39	0
14.5	-13.63	-35.44	-24.03420006	10.40	0
14.6	-13.69	-35.49	-24.10882139	10.42	0
14.7	-13.73	-35.54	-24.18293337	10.45	0
14.8	-13.78	-35.58	-24.25654288	10.48	0
14.9	-13.83	-35.64	-24.32965671	10.50	0
15.0	-13.90	-35.71	-24.40228148	10.50	0

KNS Z7 Ku-band

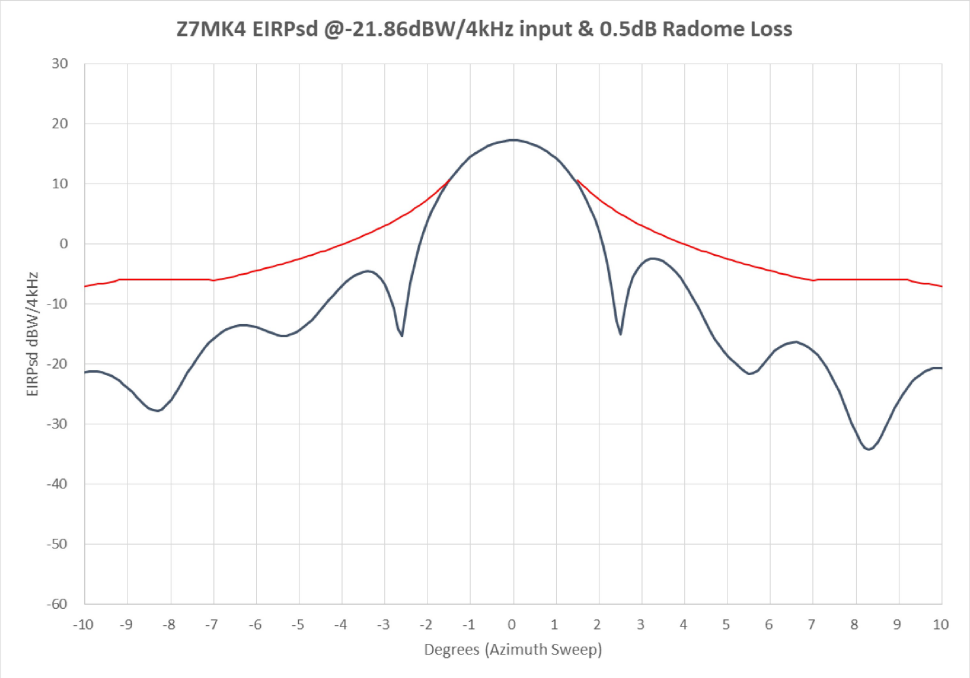
1. Maximum co-polarized EIRP density

1) 14GHz

a) At off-axis angles from ±180° range (Tangent)



b) At off-axis angles from ±10° range (Tangent)



Model	Z7MK4		Min input: (@all freq.)	-21.86
Frequency	14.00	[GHz]		
GSO arc	Tangent			
EIRPsd Input	-21.81	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	39.07			out of spec.

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-10.86	-32.67	-14	3.14	0
-179.9	-10.96	-32.77	-14	3.04	0
-179.8	-11.25	-33.06	-14	2.75	0
-179.7	-11.74	-33.55	-14	2.26	0
-179.6	-12.47	-34.27	-14	1.53	0
-179.5	-13.44	-35.25	-14	0.56	0
-179.4	-14.74	-36.55	-14	-0.74	0
-179.3	-16.43	-38.24	-14	-2.43	0
-179.2	-18.70	-40.51	-14	-4.70	0
-179.1	-21.89	-43.70	-14	-7.89	0
-179.0	-26.98	-48.79	-14	-12.98	0
-178.9	-39.72	-61.53	-14	-25.72	0
-178.8	-32.81	-54.62	-14	-18.81	0
-178.7	-25.61	-47.42	-14	-11.61	0
-178.6	-22.13	-43.94	-14	-8.13	0
-178.5	-20.04	-41.85	-14	-6.04	0
-178.4	-18.73	-40.54	-14	-4.73	0
-178.3	-17.96	-39.77	-14	-3.96	0
-178.2	-17.62	-39.42	-14	-3.62	0
-178.1	-17.66	-39.47	-14	-3.66	0
-178.0	-18.07	-39.88	-14	-4.07	0
-177.9	-18.90	-40.71	-14	-4.90	0
-177.8	-20.23	-42.04	-14	-6.23	0
-177.7	-22.24	-44.05	-14	-8.24	0
-177.6	-25.37	-47.18	-14	-11.37	0
-177.5	-31.04	-52.85	-14	-17.04	0
-177.4	-49.76	-71.56	-14	-35.76	0
-177.3	-31.13	-52.93	-14	-17.13	0
-177.2	-25.14	-46.94	-14	-11.14	0
-177.1	-21.75	-43.56	-14	-7.75	0
-177.0	-19.49	-41.30	-14	-5.49	0
-176.9	-17.90	-39.71	-14	-3.90	0
-176.8	-16.76	-38.57	-14	-2.76	0
-176.7	-15.98	-37.79	-14	-1.98	0
-176.6	-15.49	-37.30	-14	-1.49	0
-176.5	-15.25	-37.06	-14	-1.25	0
-176.4	-15.26	-37.07	-14	-1.26	0
-176.3	-15.50	-37.31	-14	-1.50	0
-176.2	-15.99	-37.80	-14	-1.99	0
-176.1	-16.73	-38.54	-14	-2.73	0
-176.0	-17.77	-39.58	-14	-3.77	0
-175.9	-19.18	-40.99	-14	-5.18	0

-175.8	-21.05	-42.85	-14	-7.05	0
-175.7	-23.60	-45.40	-14	-9.60	0
-175.6	-27.31	-49.12	-14	-13.31	0
-175.5	-33.73	-55.54	-14	-19.73	0
-175.4	-48.29	-70.10	-14	-34.29	0
-175.3	-33.41	-55.22	-14	-19.41	0
-175.2	-28.30	-50.11	-14	-14.30	0
-175.1	-25.58	-47.39	-14	-11.58	0
-175.0	-23.97	-45.78	-14	-9.97	0
-174.9	-23.07	-44.88	-14	-9.07	0
-174.8	-22.70	-44.51	-14	-8.70	0
-174.7	-22.80	-44.61	-14	-8.80	0
-174.6	-23.38	-45.19	-14	-9.38	0
-174.5	-24.49	-46.30	-14	-10.49	0
-174.4	-26.29	-48.10	-14	-12.29	0
-174.3	-29.12	-50.93	-14	-15.12	0
-174.2	-33.67	-55.48	-14	-19.67	0
-174.1	-37.68	-59.49	-14	-23.68	0
-174.0	-32.37	-54.18	-14	-18.37	0
-173.9	-27.73	-49.53	-14	-13.73	0
-173.8	-24.65	-46.46	-14	-10.65	0
-173.7	-22.49	-44.30	-14	-8.49	0
-173.6	-20.92	-42.73	-14	-6.92	0
-173.5	-19.79	-41.60	-14	-5.79	0
-173.4	-19.01	-40.82	-14	-5.01	0
-173.3	-18.51	-40.32	-14	-4.51	0
-173.2	-18.28	-40.09	-14	-4.28	0
-173.1	-18.30	-40.11	-14	-4.30	0
-173.0	-18.56	-40.37	-14	-4.56	0
-172.9	-19.09	-40.90	-14	-5.09	0
-172.8	-19.90	-41.70	-14	-5.90	0
-172.7	-21.04	-42.85	-14	-7.04	0
-172.6	-22.59	-44.40	-14	-8.59	0
-172.5	-24.71	-46.52	-14	-10.71	0
-172.4	-27.71	-49.52	-14	-13.71	0
-172.3	-32.27	-54.07	-14	-18.27	0
-172.2	-39.18	-60.99	-14	-25.18	0
-172.1	-36.19	-58.00	-14	-22.19	0
-172.0	-30.76	-52.57	-14	-16.76	0
-171.9	-27.57	-49.38	-14	-13.57	0
-171.8	-25.57	-47.38	-14	-11.57	0
-171.7	-24.30	-46.11	-14	-10.30	0
-171.6	-23.56	-45.37	-14	-9.56	0
-171.5	-23.24	-45.05	-14	-9.24	0
-171.4	-23.32	-45.13	-14	-9.32	0
-171.3	-23.77	-45.58	-14	-9.77	0
-171.2	-24.64	-46.45	-14	-10.64	0
-171.1	-26.00	-47.81	-14	-12.00	0
-171.0	-27.97	-49.78	-14	-13.97	0
-170.9	-30.72	-52.53	-14	-16.72	0

-170.8	-33.93	-55.74	-14	-19.93	0
-170.7	-34.44	-56.25	-14	-20.44	0
-170.6	-31.26	-53.07	-14	-17.26	0
-170.5	-28.14	-49.95	-14	-14.14	0
-170.4	-25.80	-47.61	-14	-11.80	0
-170.3	-24.09	-45.90	-14	-10.09	0
-170.2	-22.87	-44.68	-14	-8.87	0
-170.1	-22.03	-43.84	-14	-8.03	0
-170.0	-21.52	-43.33	-14	-7.52	0
-169.9	-21.30	-43.11	-14	-7.30	0
-169.8	-21.36	-43.17	-14	-7.36	0
-169.7	-21.71	-43.52	-14	-7.71	0
-169.6	-22.37	-44.18	-14	-8.37	0
-169.5	-23.38	-45.19	-14	-9.38	0
-169.4	-24.85	-46.65	-14	-10.85	0
-169.3	-26.93	-48.74	-14	-12.93	0
-169.2	-29.99	-51.79	-14	-15.99	0
-169.1	-34.93	-56.74	-14	-20.93	0
-169.0	-42.39	-64.20	-14	-28.39	0
-168.9	-36.41	-58.22	-14	-22.41	0
-168.8	-31.02	-52.83	-14	-17.02	0
-168.7	-27.83	-49.64	-14	-13.83	0
-168.6	-25.73	-47.54	-14	-11.73	0
-168.5	-24.31	-46.12	-14	-10.31	0
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-167.7	-26.37	-48.18	-14	-12.37	0
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-167.5	-31.95	-53.76	-14	-17.95	0
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-165.7	-39.02	-60.83	-14	-25.02	0
-165.6	-34.49	-56.30	-14	-20.49	0
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5.4	0.53	-21.28	-3.309843996	3.84	0
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18.4	-35.51	-57.32	-13.62044558	-21.89	0
18.5	-30.66	-52.47	-13.67929321	-16.98	0
18.6	-25.30	-47.11	-13.73782361	-11.56	0
18.7	-21.61	-43.42	-13.79604016	-7.82	0
18.8	-18.93	-40.74	-13.85394623	-5.08	0
18.9	-16.88	-38.69	-13.9115451	-2.97	0
19.0	-15.28	-37.09	-13.96884002	-1.31	0
19.1	-14.03	-35.84	-14.02583418	0.00	0

19.2	-13.05	-34.86	-14	0.95	0
19.3	-12.31	-34.11	-14	1.69	0
19.4	-11.77	-33.58	-14	2.23	0
19.5	-11.43	-33.23	-14	2.57	0
19.6	-11.26	-33.07	-14	2.74	0
19.7	-11.26	-33.07	-14	2.74	0
19.8	-11.44	-33.24	-14	2.56	0
19.9	-11.78	-33.59	-14	2.22	0
20.0	-12.30	-34.11	-14	1.70	0
20.1	-13.02	-34.83	-14	0.98	0
20.2	-13.94	-35.75	-14	0.06	0
20.3	-15.10	-36.91	-14	-1.10	0
20.4	-16.53	-38.34	-14	-2.53	0
20.5	-18.30	-40.11	-14	-4.30	0
20.6	-20.49	-42.30	-14	-6.49	0
20.7	-23.21	-45.02	-14	-9.21	0
20.8	-26.50	-48.31	-14	-12.50	0
20.9	-29.68	-51.49	-14	-15.68	0
21.0	-30.30	-52.11	-14	-16.30	0
21.1	-28.55	-50.36	-14	-14.55	0
21.2	-26.85	-48.65	-14	-12.85	0
21.3	-25.83	-47.64	-14	-11.83	0
21.4	-25.53	-47.34	-14	-11.53	0
21.5	-25.93	-47.74	-14	-11.93	0
21.6	-27.15	-48.96	-14	-13.15	0
21.7	-29.58	-51.39	-14	-15.58	0
21.8	-34.43	-56.24	-14	-20.43	0
21.9	-44.82	-66.63	-14	-30.82	0
22.0	-33.52	-55.33	-14	-19.52	0
22.1	-27.30	-49.11	-14	-13.30	0
22.2	-23.51	-45.32	-14	-9.51	0
22.3	-20.83	-42.64	-14	-6.83	0
22.4	-18.81	-40.62	-14	-4.81	0
22.5	-17.24	-39.05	-14	-3.24	0
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22.7	-15.05	-36.86	-14	-1.05	0
22.8	-14.33	-36.14	-14	-0.33	0
22.9	-13.82	-35.63	-14	0.18	0
23.0	-13.49	-35.30	-14	0.51	0
23.1	-13.35	-35.16	-14	0.65	0
23.2	-13.38	-35.19	-14	0.62	0
23.3	-13.59	-35.40	-14	0.41	0
23.4	-13.99	-35.80	-14	0.01	0
23.5	-14.59	-36.40	-14	-0.59	0
23.6	-15.41	-37.22	-14	-1.41	0
23.7	-16.50	-38.31	-14	-2.50	0
23.8	-17.91	-39.72	-14	-3.91	0
23.9	-19.73	-41.54	-14	-5.73	0
24.0	-22.14	-43.95	-14	-8.14	0
24.1	-25.37	-47.18	-14	-11.37	0

24.2	-29.43	-51.24	-14	-15.43	0
24.3	-30.99	-52.80	-14	-16.99	0
24.4	-27.67	-49.48	-14	-13.67	0
24.5	-24.44	-46.25	-14	-10.44	0
24.6	-22.15	-43.96	-14	-8.15	0
24.7	-20.55	-42.36	-14	-6.55	0
24.8	-19.45	-41.26	-14	-5.45	0
24.9	-18.74	-40.55	-14	-4.74	0
25.0	-18.35	-40.16	-14	-4.35	0
25.1	-18.25	-40.06	-14	-4.25	0
25.2	-18.44	-40.25	-14	-4.44	0
25.3	-18.91	-40.72	-14	-4.91	0
25.4	-19.70	-41.51	-14	-5.70	0
25.5	-20.86	-42.67	-14	-6.86	0
25.6	-22.51	-44.32	-14	-8.51	0
25.7	-24.89	-46.70	-14	-10.89	0
25.8	-28.55	-50.36	-14	-14.55	0
25.9	-35.45	-57.26	-14	-21.45	0
26.0	-44.65	-66.46	-14	-30.65	0
26.1	-31.75	-53.56	-14	-17.75	0
26.2	-26.75	-48.56	-14	-12.75	0
26.3	-23.77	-45.58	-14	-9.77	0
26.4	-21.76	-43.57	-14	-7.76	0
26.5	-20.33	-42.14	-14	-6.33	0
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26.8	-18.26	-40.07	-14	-4.26	0
26.9	-18.12	-39.93	-14	-4.12	0
27.0	-18.24	-40.05	-14	-4.24	0
27.1	-18.60	-40.41	-14	-4.60	0
27.2	-19.24	-41.05	-14	-5.24	0
27.3	-20.18	-41.99	-14	-6.18	0
27.4	-21.50	-43.31	-14	-7.50	0
27.5	-23.30	-45.11	-14	-9.30	0
27.6	-25.69	-47.50	-14	-11.69	0
27.7	-28.57	-50.37	-14	-14.57	0
27.8	-30.18	-51.98	-14	-16.18	0
27.9	-28.18	-49.99	-14	-14.18	0
28.0	-25.10	-46.91	-14	-11.10	0
28.1	-22.51	-44.32	-14	-8.51	0
28.2	-20.51	-42.32	-14	-6.51	0
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28.5	-16.80	-38.61	-14	-2.80	0
28.6	-16.10	-37.91	-14	-2.10	0
28.7	-15.59	-37.40	-14	-1.59	0
28.8	-15.26	-37.07	-14	-1.26	0
28.9	-15.10	-36.91	-14	-1.10	0
29.0	-15.08	-36.89	-14	-1.08	0
29.1	-15.22	-37.03	-14	-1.22	0

29.2	-15.51	-37.32	-14	-1.51	0
29.3	-15.94	-37.75	-14	-1.94	0
29.4	-16.54	-38.35	-14	-2.54	0
29.5	-17.31	-39.12	-14	-3.31	0
29.6	-18.26	-40.07	-14	-4.26	0
29.7	-19.41	-41.22	-14	-5.41	0
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29.9	-22.41	-44.22	-14	-8.41	0
30.0	-24.26	-46.07	-14	-10.26	0
30.1	-26.22	-48.03	-14	-12.22	0
30.2	-27.89	-49.70	-14	-13.89	0
30.3	-28.63	-50.44	-14	-14.63	0
30.4	-28.21	-50.02	-14	-14.21	0
30.5	-27.22	-49.03	-14	-13.22	0
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30.8	-24.91	-46.72	-14	-10.91	0
30.9	-24.68	-46.49	-14	-10.68	0
31.0	-24.71	-46.52	-14	-10.71	0
31.1	-24.98	-46.79	-14	-10.98	0
31.2	-25.43	-47.24	-14	-11.43	0
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31.7	-24.84	-46.65	-14	-10.84	0
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32.2	-18.86	-40.66	-14	-4.86	0
32.3	-18.05	-39.86	-14	-4.05	0
32.4	-17.39	-39.20	-14	-3.39	0
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32.6	-16.48	-38.29	-14	-2.48	0
32.7	-16.21	-38.02	-14	-2.21	0
32.8	-16.07	-37.88	-14	-2.07	0
32.9	-16.05	-37.86	-14	-2.05	0
33.0	-16.14	-37.95	-14	-2.14	0
33.1	-16.36	-38.16	-14	-2.36	0
33.2	-16.68	-38.49	-14	-2.68	0
33.3	-17.13	-38.94	-14	-3.13	0
33.4	-17.69	-39.50	-14	-3.69	0
33.5	-18.38	-40.19	-14	-4.38	0
33.6	-19.18	-40.99	-14	-5.18	0
33.7	-20.09	-41.90	-14	-6.09	0
33.8	-21.07	-42.88	-14	-7.07	0
33.9	-22.08	-43.89	-14	-8.08	0
34.0	-23.02	-44.83	-14	-9.02	0
34.1	-23.76	-45.57	-14	-9.76	0

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34.4	-24.06	-45.87	-14	-10.06	0
34.5	-23.70	-45.51	-14	-9.70	0
34.6	-23.30	-45.11	-14	-9.30	0
34.7	-22.96	-44.77	-14	-8.96	0
34.8	-22.72	-44.53	-14	-8.72	0
34.9	-22.61	-44.42	-14	-8.61	0
35.0	-22.64	-44.45	-14	-8.64	0
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35.2	-23.08	-44.89	-14	-9.08	0
35.3	-23.45	-45.26	-14	-9.45	0
35.4	-23.86	-45.67	-14	-9.86	0
35.5	-24.22	-46.03	-14	-10.22	0
35.6	-24.42	-46.23	-14	-10.42	0
35.7	-24.36	-46.17	-14	-10.36	0
35.8	-23.97	-45.78	-14	-9.97	0
35.9	-23.32	-45.13	-14	-9.32	0
36.0	-22.50	-44.31	-14	-8.50	0
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36.3	-19.96	-41.77	-14	-5.96	0
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36.8	-17.52	-39.33	-14	-3.52	0
36.9	-17.35	-39.16	-14	-3.35	0
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37.5	-18.46	-40.27	-14	-4.46	0
37.6	-19.00	-40.81	-14	-5.00	0
37.7	-19.63	-41.44	-14	-5.63	0
37.8	-20.34	-42.15	-14	-6.34	0
37.9	-21.13	-42.94	-14	-7.13	0
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38.1	-22.79	-44.60	-14	-8.79	0
38.2	-23.54	-45.35	-14	-9.54	0
38.3	-24.15	-45.96	-14	-10.15	0
38.4	-24.54	-46.35	-14	-10.54	0
38.5	-24.69	-46.50	-14	-10.69	0
38.6	-24.63	-46.44	-14	-10.63	0
38.7	-24.43	-46.24	-14	-10.43	0
38.8	-24.18	-45.99	-14	-10.18	0
38.9	-23.94	-45.75	-14	-9.94	0
39.0	-23.75	-45.56	-14	-9.75	0
39.1	-23.63	-45.44	-14	-9.63	0

39.2	-23.61	-45.42	-14	-9.61	0
39.3	-23.66	-45.47	-14	-9.66	0
39.4	-23.79	-45.60	-14	-9.79	0
39.5	-23.95	-45.76	-14	-9.95	0
39.6	-24.13	-45.94	-14	-10.13	0
39.7	-24.25	-46.06	-14	-10.25	0
39.8	-24.26	-46.07	-14	-10.26	0
39.9	-24.12	-45.93	-14	-10.12	0
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40.1	-23.31	-45.12	-14	-9.31	0
40.2	-22.71	-44.51	-14	-8.71	0
40.3	-22.03	-43.84	-14	-8.03	0
40.4	-21.35	-43.16	-14	-7.35	0
40.5	-20.69	-42.50	-14	-6.69	0
40.6	-20.08	-41.88	-14	-6.08	0
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40.8	-19.06	-40.87	-14	-5.06	0
40.9	-18.67	-40.48	-14	-4.67	0
41.0	-18.36	-40.17	-14	-4.36	0
41.1	-18.13	-39.94	-14	-4.13	0
41.2	-17.98	-39.79	-14	-3.98	0
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41.4	-17.93	-39.74	-14	-3.93	0
41.5	-18.02	-39.83	-14	-4.02	0
41.6	-18.19	-40.00	-14	-4.19	0
41.7	-18.43	-40.24	-14	-4.43	0
41.8	-18.76	-40.56	-14	-4.76	0
41.9	-19.15	-40.96	-14	-5.15	0
42.0	-19.62	-41.43	-14	-5.62	0
42.1	-20.15	-41.96	-14	-6.15	0
42.2	-20.75	-42.56	-14	-6.75	0
42.3	-21.40	-43.21	-14	-7.40	0
42.4	-22.09	-43.90	-14	-8.09	0
42.5	-22.80	-44.61	-14	-8.80	0
42.6	-23.50	-45.31	-14	-9.50	0
42.7	-24.16	-45.97	-14	-10.16	0
42.8	-24.74	-46.55	-14	-10.74	0
42.9	-25.21	-47.02	-14	-11.21	0
43.0	-25.52	-47.33	-14	-11.52	0
43.1	-25.68	-47.49	-14	-11.68	0
43.2	-25.67	-47.48	-14	-11.67	0
43.3	-25.52	-47.33	-14	-11.52	0
43.4	-25.25	-47.06	-14	-11.25	0
43.5	-24.87	-46.68	-14	-10.87	0
43.6	-24.39	-46.20	-14	-10.39	0
43.7	-23.82	-45.63	-14	-9.82	0
43.8	-23.19	-45.00	-14	-9.19	0
43.9	-22.50	-44.31	-14	-8.50	0
44.0	-21.77	-43.58	-14	-7.77	0
44.1	-21.02	-42.83	-14	-7.02	0

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44.3	-19.51	-41.32	-14	-5.51	0
44.4	-18.78	-40.59	-14	-4.78	0
44.5	-18.08	-39.89	-14	-4.08	0
44.6	-17.42	-39.23	-14	-3.42	0
44.7	-16.80	-38.61	-14	-2.80	0
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45.0	-15.25	-37.06	-14	-1.25	0
45.1	-14.83	-36.64	-14	-0.83	0
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45.3	-14.16	-35.97	-14	-0.16	0
45.4	-13.90	-35.71	-14	0.10	0
45.5	-13.69	-35.50	-14	0.31	0
45.6	-13.52	-35.33	-14	0.48	0
45.7	-13.40	-35.21	-14	0.60	0
45.8	-13.33	-35.14	-14	0.67	0
45.9	-13.30	-35.11	-14	0.70	0
46.0	-13.31	-35.11	-14	0.69	0
46.1	-13.35	-35.16	-14	0.65	0
46.2	-13.42	-35.23	-14	0.58	0
46.3	-13.53	-35.34	-14	0.47	0
46.4	-13.65	-35.46	-14	0.35	0
46.5	-13.79	-35.60	-14	0.21	0
46.6	-13.94	-35.75	-14	0.06	0
46.7	-14.09	-35.90	-14	-0.09	0
46.8	-14.23	-36.04	-14	-0.23	0
46.9	-14.36	-36.17	-14	-0.36	0
47.0	-14.46	-36.27	-14	-0.46	0
47.1	-14.53	-36.34	-14	-0.53	0
47.2	-14.57	-36.37	-14	-0.57	0
47.3	-14.57	-36.38	-14	-0.57	0
47.4	-14.54	-36.35	-14	-0.54	0
47.5	-14.49	-36.30	-14	-0.49	0
47.6	-14.42	-36.23	-14	-0.42	0
47.7	-14.33	-36.14	-14	-0.33	0
47.8	-14.24	-36.05	-14	-0.24	0
47.9	-14.16	-35.97	-14	-0.16	0
48.0	-14.08	-35.89	-14	-0.08	0
48.1	-14.03	-35.84	-14	-0.03	0
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48.3	-13.99	-35.80	-14	0.01	0
48.4	-14.02	-35.83	-14	-0.02	0
48.5	-14.09	-35.90	-14	-0.09	0
48.6	-14.19	-36.00	-14	-0.19	0
48.7	-14.33	-36.14	-14	-0.33	0
48.8	-14.52	-36.33	-14	-0.52	0
48.9	-14.76	-36.57	-14	-0.76	0
49.0	-15.04	-36.85	-14	-1.04	0
49.1	-15.37	-37.18	-14	-1.37	0

49.2	-15.75	-37.56	-14	-1.75	0
49.3	-16.19	-38.00	-14	-2.19	0
49.4	-16.69	-38.49	-14	-2.69	0
49.5	-17.24	-39.05	-14	-3.24	0
49.6	-17.85	-39.66	-14	-3.85	0
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49.8	-19.28	-41.09	-14	-5.28	0
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50.2	-23.01	-44.82	-14	-9.01	0
50.3	-24.14	-45.95	-14	-10.14	0
50.4	-25.34	-47.15	-14	-11.34	0
50.5	-26.59	-48.40	-14	-12.59	0
50.6	-27.85	-49.66	-14	-13.85	0
50.7	-29.06	-50.87	-14	-15.06	0
50.8	-30.14	-51.95	-14	-16.14	0
50.9	-30.97	-52.78	-14	-16.97	0
51.0	-31.49	-53.30	-14	-17.49	0
51.1	-31.69	-53.50	-14	-17.69	0
51.2	-31.65	-53.46	-14	-17.65	0
51.3	-31.44	-53.25	-14	-17.44	0
51.4	-31.15	-52.96	-14	-17.15	0
51.5	-30.82	-52.63	-14	-16.82	0
51.6	-30.46	-52.27	-14	-16.46	0
51.7	-30.05	-51.86	-14	-16.05	0
51.8	-29.58	-51.39	-14	-15.58	0
51.9	-29.02	-50.83	-14	-15.02	0
52.0	-28.38	-50.19	-14	-14.38	0
52.1	-27.65	-49.46	-14	-13.65	0
52.2	-26.84	-48.65	-14	-12.84	0
52.3	-25.98	-47.79	-14	-11.98	0
52.4	-25.10	-46.91	-14	-11.10	0
52.5	-24.21	-46.02	-14	-10.21	0
52.6	-23.34	-45.15	-14	-9.34	0
52.7	-22.49	-44.30	-14	-8.49	0
52.8	-21.68	-43.49	-14	-7.68	0
52.9	-20.91	-42.72	-14	-6.91	0
53.0	-20.18	-41.99	-14	-6.18	0
53.1	-19.50	-41.31	-14	-5.50	0
53.2	-18.86	-40.67	-14	-4.86	0
53.3	-18.26	-40.07	-14	-4.26	0
53.4	-17.71	-39.52	-14	-3.71	0
53.5	-17.20	-39.01	-14	-3.20	0
53.6	-16.72	-38.53	-14	-2.72	0
53.7	-16.29	-38.10	-14	-2.29	0
53.8	-15.89	-37.70	-14	-1.89	0
53.9	-15.52	-37.33	-14	-1.52	0
54.0	-15.19	-37.00	-14	-1.19	0
54.1	-14.89	-36.70	-14	-0.89	0

54.2	-14.63	-36.43	-14	-0.63	0
54.3	-14.39	-36.20	-14	-0.39	0
54.4	-14.18	-35.99	-14	-0.18	0
54.5	-13.99	-35.80	-14	0.01	0
54.6	-13.83	-35.64	-14	0.17	0
54.7	-13.70	-35.51	-14	0.30	0
54.8	-13.59	-35.40	-14	0.41	0
54.9	-13.50	-35.31	-14	0.50	0
55.0	-13.43	-35.24	-14	0.57	0
55.1	-13.38	-35.19	-14	0.62	0
55.2	-13.35	-35.16	-14	0.65	0
55.3	-13.33	-35.14	-14	0.67	0
55.4	-13.33	-35.14	-14	0.67	0
55.5	-13.33	-35.14	-14	0.67	0
55.6	-13.34	-35.15	-14	0.66	0
55.7	-13.36	-35.17	-14	0.64	0
55.8	-13.38	-35.19	-14	0.62	0
55.9	-13.40	-35.21	-14	0.60	0
56.0	-13.41	-35.22	-14	0.59	0
56.1	-13.42	-35.23	-14	0.58	0
56.2	-13.42	-35.23	-14	0.58	0
56.3	-13.40	-35.21	-14	0.60	0
56.4	-13.37	-35.18	-14	0.63	0
56.5	-13.33	-35.14	-14	0.67	0
56.6	-13.27	-35.08	-14	0.73	0
56.7	-13.20	-35.01	-14	0.80	0
56.8	-13.11	-34.92	-14	0.89	0
56.9	-13.01	-34.82	-14	0.99	0
57.0	-12.89	-34.70	-14	1.11	0
57.1	-12.77	-34.58	-14	1.23	0
57.2	-12.64	-34.45	-14	1.36	0
57.3	-12.52	-34.32	-14	1.48	0
57.4	-12.39	-34.20	-14	1.61	0
57.5	-12.26	-34.07	-14	1.74	0
57.6	-12.14	-33.95	-14	1.86	0
57.7	-12.02	-33.83	-14	1.98	0
57.8	-11.92	-33.73	-14	2.08	0
57.9	-11.83	-33.64	-14	2.17	0
58.0	-11.75	-33.56	-14	2.25	0
58.1	-11.69	-33.50	-14	2.31	0
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58.3	-11.61	-33.42	-14	2.39	0
58.4	-11.60	-33.41	-14	2.40	0
58.5	-11.61	-33.42	-14	2.39	0
58.6	-11.63	-33.44	-14	2.37	0
58.7	-11.68	-33.49	-14	2.32	0
58.8	-11.75	-33.55	-14	2.25	0
58.9	-11.83	-33.64	-14	2.17	0
59.0	-11.94	-33.75	-14	2.06	0
59.1	-12.07	-33.88	-14	1.93	0

59.2	-12.22	-34.03	-14	1.78	0
59.3	-12.39	-34.20	-14	1.61	0
59.4	-12.58	-34.39	-14	1.42	0
59.5	-12.79	-34.60	-14	1.21	0
59.6	-13.02	-34.83	-14	0.98	0
59.7	-13.27	-35.08	-14	0.73	0
59.8	-13.54	-35.35	-14	0.46	0
59.9	-13.82	-35.63	-14	0.18	0
60.0	-14.13	-35.94	-14	-0.13	0
60.1	-14.45	-36.26	-14	-0.45	0
60.2	-14.78	-36.59	-14	-0.78	0
60.3	-15.13	-36.94	-14	-1.13	0
60.4	-15.49	-37.30	-14	-1.49	0
60.5	-15.86	-37.67	-14	-1.86	0
60.6	-16.23	-38.04	-14	-2.23	0
60.7	-16.61	-38.42	-14	-2.61	0
60.8	-16.98	-38.79	-14	-2.98	0
60.9	-17.35	-39.16	-14	-3.35	0
61.0	-17.71	-39.52	-14	-3.71	0
61.1	-18.06	-39.87	-14	-4.06	0
61.2	-18.38	-40.19	-14	-4.38	0
61.3	-18.68	-40.49	-14	-4.68	0
61.4	-18.95	-40.76	-14	-4.95	0
61.5	-19.17	-40.98	-14	-5.17	0
61.6	-19.36	-41.17	-14	-5.36	0
61.7	-19.50	-41.31	-14	-5.50	0
61.8	-19.59	-41.40	-14	-5.59	0
61.9	-19.62	-41.43	-14	-5.62	0
62.0	-19.60	-41.41	-14	-5.60	0
62.1	-19.54	-41.35	-14	-5.54	0
62.2	-19.42	-41.23	-14	-5.42	0
62.3	-19.26	-41.07	-14	-5.26	0
62.4	-19.05	-40.86	-14	-5.05	0
62.5	-18.81	-40.62	-14	-4.81	0
62.6	-18.55	-40.35	-14	-4.55	0
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62.8	-17.94	-39.75	-14	-3.94	0
62.9	-17.61	-39.42	-14	-3.61	0
63.0	-17.27	-39.08	-14	-3.27	0
63.1	-16.92	-38.73	-14	-2.92	0
63.2	-16.57	-38.38	-14	-2.57	0
63.3	-16.22	-38.03	-14	-2.22	0
63.4	-15.87	-37.68	-14	-1.87	0
63.5	-15.52	-37.33	-14	-1.52	0
63.6	-15.19	-37.00	-14	-1.19	0
63.7	-14.86	-36.67	-14	-0.86	0
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63.9	-14.23	-36.04	-14	-0.23	0
64.0	-13.94	-35.75	-14	0.06	0
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64.2	-13.39	-35.19	-14	0.61	0
64.3	-13.13	-34.94	-14	0.87	0
64.4	-12.89	-34.70	-14	1.11	0
64.5	-12.66	-34.47	-14	1.34	0
64.6	-12.45	-34.25	-14	1.55	0
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64.8	-12.06	-33.87	-14	1.94	0
64.9	-11.89	-33.70	-14	2.11	0
65.0	-11.73	-33.54	-14	2.27	0
65.1	-11.59	-33.40	-14	2.41	0
65.2	-11.46	-33.27	-14	2.54	0
65.3	-11.35	-33.16	-14	2.65	0
65.4	-11.25	-33.06	-14	2.75	0
65.5	-11.16	-32.97	-14	2.84	0
65.6	-11.09	-32.90	-14	2.91	0
65.7	-11.03	-32.84	-14	2.97	0
65.8	-10.98	-32.79	-14	3.02	0
65.9	-10.94	-32.75	-14	3.06	0
66.0	-10.92	-32.73	-14	3.08	0
66.1	-10.91	-32.72	-14	3.09	0
66.2	-10.91	-32.72	-14	3.09	0
66.3	-10.92	-32.73	-14	3.08	0
66.4	-10.94	-32.75	-14	3.06	0
66.5	-10.97	-32.78	-14	3.03	0
66.6	-11.01	-32.82	-14	2.99	0
66.7	-11.06	-32.87	-14	2.94	0
66.8	-11.12	-32.93	-14	2.88	0
66.9	-11.20	-33.00	-14	2.80	0
67.0	-11.27	-33.08	-14	2.73	0
67.1	-11.36	-33.17	-14	2.64	0
67.2	-11.46	-33.27	-14	2.54	0
67.3	-11.56	-33.37	-14	2.44	0
67.4	-11.67	-33.48	-14	2.33	0
67.5	-11.78	-33.59	-14	2.22	0
67.6	-11.91	-33.72	-14	2.09	0
67.7	-12.03	-33.84	-14	1.97	0
67.8	-12.17	-33.98	-14	1.83	0
67.9	-12.30	-34.11	-14	1.70	0
68.0	-12.44	-34.25	-14	1.56	0
68.1	-12.59	-34.40	-14	1.41	0
68.2	-12.74	-34.55	-14	1.26	0
68.3	-12.89	-34.70	-14	1.11	0
68.4	-13.04	-34.85	-14	0.96	0
68.5	-13.20	-35.01	-14	0.80	0
68.6	-13.36	-35.17	-14	0.64	0
68.7	-13.52	-35.33	-14	0.48	0
68.8	-13.68	-35.49	-14	0.32	0
68.9	-13.84	-35.65	-14	0.16	0
69.0	-14.01	-35.82	-14	-0.01	0
69.1	-14.17	-35.98	-14	-0.17	0

69.2	-14.34	-36.15	-14	-0.34	0
69.3	-14.51	-36.32	-14	-0.51	0
69.4	-14.68	-36.49	-14	-0.68	0
69.5	-14.86	-36.66	-14	-0.86	0
69.6	-15.03	-36.84	-14	-1.03	0
69.7	-15.21	-37.02	-14	-1.21	0
69.8	-15.39	-37.20	-14	-1.39	0
69.9	-15.57	-37.38	-14	-1.57	0
70.0	-15.76	-37.57	-14	-1.76	0
70.1	-15.96	-37.77	-14	-1.96	0
70.2	-16.15	-37.96	-14	-2.15	0
70.3	-16.36	-38.17	-14	-2.36	0
70.4	-16.56	-38.37	-14	-2.56	0
70.5	-16.78	-38.59	-14	-2.78	0
70.6	-17.00	-38.81	-14	-3.00	0
70.7	-17.22	-39.03	-14	-3.22	0
70.8	-17.45	-39.26	-14	-3.45	0
70.9	-17.68	-39.49	-14	-3.68	0
71.0	-17.92	-39.73	-14	-3.92	0
71.1	-18.16	-39.97	-14	-4.16	0
71.2	-18.39	-40.20	-14	-4.39	0
71.3	-18.62	-40.43	-14	-4.62	0
71.4	-18.85	-40.66	-14	-4.85	0
71.5	-19.06	-40.87	-14	-5.06	0
71.6	-19.26	-41.07	-14	-5.26	0
71.7	-19.44	-41.25	-14	-5.44	0
71.8	-19.59	-41.40	-14	-5.59	0
71.9	-19.70	-41.51	-14	-5.70	0
72.0	-19.78	-41.59	-14	-5.78	0
72.1	-19.82	-41.63	-14	-5.82	0
72.2	-19.81	-41.62	-14	-5.81	0
72.3	-19.75	-41.56	-14	-5.75	0
72.4	-19.65	-41.46	-14	-5.65	0
72.5	-19.50	-41.31	-14	-5.50	0
72.6	-19.31	-41.12	-14	-5.31	0
72.7	-19.09	-40.90	-14	-5.09	0
72.8	-18.83	-40.64	-14	-4.83	0
72.9	-18.55	-40.36	-14	-4.55	0
73.0	-18.25	-40.06	-14	-4.25	0
73.1	-17.93	-39.74	-14	-3.93	0
73.2	-17.61	-39.42	-14	-3.61	0
73.3	-17.28	-39.09	-14	-3.28	0
73.4	-16.96	-38.77	-14	-2.96	0
73.5	-16.63	-38.44	-14	-2.63	0
73.6	-16.31	-38.12	-14	-2.31	0
73.7	-16.00	-37.81	-14	-2.00	0
73.8	-15.70	-37.51	-14	-1.70	0
73.9	-15.40	-37.21	-14	-1.40	0
74.0	-15.12	-36.93	-14	-1.12	0
74.1	-14.85	-36.66	-14	-0.85	0

74.2	-14.59	-36.40	-14	-0.59	0
74.3	-14.34	-36.15	-14	-0.34	0
74.4	-14.10	-35.91	-14	-0.10	0
74.5	-13.87	-35.68	-14	0.13	0
74.6	-13.66	-35.47	-14	0.34	0
74.7	-13.46	-35.27	-14	0.54	0
74.8	-13.27	-35.08	-14	0.73	0
74.9	-13.09	-34.90	-14	0.91	0
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75.1	-12.76	-34.57	-14	1.24	0
75.2	-12.62	-34.43	-14	1.38	0
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75.5	-12.23	-34.04	-14	1.77	0
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76.3	-11.60	-33.41	-14	2.40	0
76.4	-11.55	-33.36	-14	2.45	0
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77.0	-11.38	-33.19	-14	2.62	0
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77.2	-11.36	-33.17	-14	2.64	0
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78.4	-11.41	-33.22	-14	2.59	0
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78.8	-11.43	-33.24	-14	2.57	0
78.9	-11.44	-33.25	-14	2.56	0
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79.9	-11.42	-33.23	-14	2.58	0
80.0	-11.41	-33.22	-14	2.59	0
80.1	-11.40	-33.21	-14	2.60	0
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82.0	-11.43	-33.24	-14	2.57	0
82.1	-11.46	-33.26	-14	2.54	0
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82.4	-11.54	-33.35	-14	2.46	0
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83.0	-11.82	-33.62	-14	2.18	0
83.1	-11.87	-33.68	-14	2.13	0
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83.3	-12.00	-33.81	-14	2.00	0
83.4	-12.07	-33.87	-14	1.93	0
83.5	-12.14	-33.95	-14	1.86	0
83.6	-12.21	-34.02	-14	1.79	0
83.7	-12.28	-34.09	-14	1.72	0
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83.9	-12.44	-34.25	-14	1.56	0
84.0	-12.53	-34.34	-14	1.47	0
84.1	-12.61	-34.42	-14	1.39	0

84.2	-12.70	-34.51	-14	1.30	0
84.3	-12.78	-34.59	-14	1.22	0
84.4	-12.87	-34.68	-14	1.13	0
84.5	-12.96	-34.77	-14	1.04	0
84.6	-13.05	-34.85	-14	0.95	0
84.7	-13.13	-34.94	-14	0.87	0
84.8	-13.22	-35.03	-14	0.78	0
84.9	-13.30	-35.11	-14	0.70	0
85.0	-13.38	-35.19	-14	0.62	0
85.1	-13.46	-35.27	-14	0.54	0
85.2	-13.54	-35.35	-14	0.46	0
85.3	-13.61	-35.42	-14	0.39	0
85.4	-13.68	-35.49	-14	0.32	0
85.5	-13.74	-35.55	-14	0.26	0
85.6	-13.80	-35.61	-14	0.20	0
85.7	-13.85	-35.66	-14	0.15	0
85.8	-13.90	-35.71	-14	0.10	0
85.9	-13.95	-35.76	-14	0.05	0
86.0	-13.99	-35.80	-14	0.01	0
86.1	-14.02	-35.83	-14	-0.02	0
86.2	-14.05	-35.86	-14	-0.05	0
86.3	-14.07	-35.88	-14	-0.07	0
86.4	-14.09	-35.90	-14	-0.09	0
86.5	-14.11	-35.92	-14	-0.11	0
86.6	-14.12	-35.93	-14	-0.12	0
86.7	-14.12	-35.93	-14	-0.12	0
86.8	-14.13	-35.94	-14	-0.13	0
86.9	-14.13	-35.94	-14	-0.13	0
87.0	-14.12	-35.93	-14	-0.12	0
87.1	-14.12	-35.93	-14	-0.12	0
87.2	-14.12	-35.93	-14	-0.12	0
87.3	-14.11	-35.92	-14	-0.11	0
87.4	-14.11	-35.92	-14	-0.11	0
87.5	-14.10	-35.91	-14	-0.10	0
87.6	-14.10	-35.91	-14	-0.10	0
87.7	-14.10	-35.91	-14	-0.10	0
87.8	-14.10	-35.91	-14	-0.10	0
87.9	-14.11	-35.92	-14	-0.11	0
88.0	-14.12	-35.93	-14	-0.12	0
88.1	-14.13	-35.94	-14	-0.13	0
88.2	-14.15	-35.96	-14	-0.15	0
88.3	-14.17	-35.98	-14	-0.17	0
88.4	-14.19	-36.00	-14	-0.19	0
88.5	-14.23	-36.04	-14	-0.23	0
88.6	-14.26	-36.07	-14	-0.26	0
88.7	-14.31	-36.12	-14	-0.31	0
88.8	-14.36	-36.17	-14	-0.36	0
88.9	-14.42	-36.23	-14	-0.42	0
89.0	-14.48	-36.29	-14	-0.48	0
89.1	-14.55	-36.36	-14	-0.55	0

89.2	-14.63	-36.44	-14	-0.63	0
89.3	-14.71	-36.52	-14	-0.71	0
89.4	-14.80	-36.61	-14	-0.80	0
89.5	-14.90	-36.71	-14	-0.90	0
89.6	-15.01	-36.82	-14	-1.01	0
89.7	-15.12	-36.93	-14	-1.12	0
89.8	-15.24	-37.05	-14	-1.24	0
89.9	-15.37	-37.18	-14	-1.37	0
90.0	-15.50	-37.31	-14	-1.50	0
90.1	-15.64	-37.45	-14	-1.64	0
90.2	-15.79	-37.60	-14	-1.79	0
90.3	-15.94	-37.75	-14	-1.94	0
90.4	-16.09	-37.90	-14	-2.09	0
90.5	-16.25	-38.06	-14	-2.25	0
90.6	-16.41	-38.22	-14	-2.41	0
90.7	-16.57	-38.38	-14	-2.57	0
90.8	-16.73	-38.54	-14	-2.73	0
90.9	-16.90	-38.71	-14	-2.90	0
91.0	-17.06	-38.87	-14	-3.06	0
91.1	-17.21	-39.02	-14	-3.21	0
91.2	-17.37	-39.17	-14	-3.37	0
91.3	-17.51	-39.32	-14	-3.51	0
91.4	-17.65	-39.46	-14	-3.65	0
91.5	-17.78	-39.59	-14	-3.78	0
91.6	-17.89	-39.70	-14	-3.89	0
91.7	-18.00	-39.81	-14	-4.00	0
91.8	-18.09	-39.90	-14	-4.09	0
91.9	-18.16	-39.97	-14	-4.16	0
92.0	-18.22	-40.03	-14	-4.22	0
92.1	-18.27	-40.07	-14	-4.27	0
92.2	-18.29	-40.10	-14	-4.29	0
92.3	-18.31	-40.12	-14	-4.31	0
92.4	-18.31	-40.11	-14	-4.31	0
92.5	-18.29	-40.10	-14	-4.29	0
92.6	-18.26	-40.07	-14	-4.26	0
92.7	-18.23	-40.03	-14	-4.23	0
92.8	-18.18	-39.99	-14	-4.18	0
92.9	-18.12	-39.93	-14	-4.12	0
93.0	-18.06	-39.87	-14	-4.06	0
93.1	-18.00	-39.81	-14	-4.00	0
93.2	-17.93	-39.74	-14	-3.93	0
93.3	-17.87	-39.68	-14	-3.87	0
93.4	-17.80	-39.61	-14	-3.80	0
93.5	-17.74	-39.55	-14	-3.74	0
93.6	-17.68	-39.49	-14	-3.68	0
93.7	-17.63	-39.44	-14	-3.63	0
93.8	-17.58	-39.39	-14	-3.58	0
93.9	-17.54	-39.35	-14	-3.54	0
94.0	-17.51	-39.32	-14	-3.51	0
94.1	-17.49	-39.30	-14	-3.49	0

94.2	-17.47	-39.28	-14	-3.47	0
94.3	-17.47	-39.28	-14	-3.47	0
94.4	-17.48	-39.29	-14	-3.48	0
94.5	-17.50	-39.31	-14	-3.50	0
94.6	-17.53	-39.34	-14	-3.53	0
94.7	-17.58	-39.39	-14	-3.58	0
94.8	-17.64	-39.45	-14	-3.64	0
94.9	-17.71	-39.52	-14	-3.71	0
95.0	-17.79	-39.60	-14	-3.79	0
95.1	-17.89	-39.70	-14	-3.89	0
95.2	-18.01	-39.82	-14	-4.01	0
95.3	-18.13	-39.94	-14	-4.13	0
95.4	-18.27	-40.08	-14	-4.27	0
95.5	-18.43	-40.24	-14	-4.43	0
95.6	-18.60	-40.41	-14	-4.60	0
95.7	-18.78	-40.59	-14	-4.78	0
95.8	-18.98	-40.78	-14	-4.98	0
95.9	-19.18	-40.99	-14	-5.18	0
96.0	-19.41	-41.21	-14	-5.41	0
96.1	-19.64	-41.45	-14	-5.64	0
96.2	-19.88	-41.69	-14	-5.88	0
96.3	-20.13	-41.94	-14	-6.13	0
96.4	-20.38	-42.19	-14	-6.38	0
96.5	-20.64	-42.45	-14	-6.64	0
96.6	-20.90	-42.71	-14	-6.90	0
96.7	-21.16	-42.97	-14	-7.16	0
96.8	-21.40	-43.21	-14	-7.40	0
96.9	-21.64	-43.45	-14	-7.64	0
97.0	-21.85	-43.66	-14	-7.85	0
97.1	-22.05	-43.86	-14	-8.05	0
97.2	-22.21	-44.02	-14	-8.21	0
97.3	-22.34	-44.15	-14	-8.34	0
97.4	-22.44	-44.25	-14	-8.44	0
97.5	-22.49	-44.30	-14	-8.49	0
97.6	-22.51	-44.32	-14	-8.51	0
97.7	-22.48	-44.29	-14	-8.48	0
97.8	-22.42	-44.23	-14	-8.42	0
97.9	-22.33	-44.14	-14	-8.33	0
98.0	-22.20	-44.01	-14	-8.20	0
98.1	-22.06	-43.87	-14	-8.06	0
98.2	-21.89	-43.70	-14	-7.89	0
98.3	-21.72	-43.53	-14	-7.72	0
98.4	-21.54	-43.34	-14	-7.54	0
98.5	-21.35	-43.16	-14	-7.35	0
98.6	-21.17	-42.98	-14	-7.17	0
98.7	-20.99	-42.80	-14	-6.99	0
98.8	-20.82	-42.63	-14	-6.82	0
98.9	-20.66	-42.47	-14	-6.66	0
99.0	-20.51	-42.32	-14	-6.51	0
99.1	-20.38	-42.19	-14	-6.38	0

99.2	-20.26	-42.07	-14	-6.26	0
99.3	-20.17	-41.98	-14	-6.17	0
99.4	-20.09	-41.90	-14	-6.09	0
99.5	-20.02	-41.83	-14	-6.02	0
99.6	-19.98	-41.79	-14	-5.98	0
99.7	-19.96	-41.77	-14	-5.96	0
99.8	-19.96	-41.77	-14	-5.96	0
99.9	-19.98	-41.79	-14	-5.98	0
100.0	-20.03	-41.83	-14	-6.03	0
100.1	-20.09	-41.90	-14	-6.09	0
100.2	-20.18	-41.99	-14	-6.18	0
100.3	-20.29	-42.10	-14	-6.29	0
100.4	-20.43	-42.24	-14	-6.43	0
100.5	-20.59	-42.40	-14	-6.59	0
100.6	-20.77	-42.58	-14	-6.77	0
100.7	-20.99	-42.79	-14	-6.99	0
100.8	-21.22	-43.03	-14	-7.22	0
100.9	-21.48	-43.29	-14	-7.48	0
101.0	-21.77	-43.58	-14	-7.77	0
101.1	-22.09	-43.90	-14	-8.09	0
101.2	-22.43	-44.24	-14	-8.43	0
101.3	-22.79	-44.60	-14	-8.79	0
101.4	-23.18	-44.98	-14	-9.18	0
101.5	-23.58	-45.39	-14	-9.58	0
101.6	-24.00	-45.81	-14	-10.00	0
101.7	-24.42	-46.23	-14	-10.42	0
101.8	-24.85	-46.65	-14	-10.85	0
101.9	-25.25	-47.06	-14	-11.25	0
102.0	-25.63	-47.44	-14	-11.63	0
102.1	-25.96	-47.77	-14	-11.96	0
102.2	-26.23	-48.04	-14	-12.23	0
102.3	-26.41	-48.22	-14	-12.41	0
102.4	-26.49	-48.30	-14	-12.49	0
102.5	-26.47	-48.28	-14	-12.47	0
102.6	-26.36	-48.16	-14	-12.36	0
102.7	-26.15	-47.96	-14	-12.15	0
102.8	-25.87	-47.68	-14	-11.87	0
102.9	-25.55	-47.36	-14	-11.55	0
103.0	-25.19	-47.00	-14	-11.19	0
103.1	-24.81	-46.62	-14	-10.81	0
103.2	-24.43	-46.24	-14	-10.43	0
103.3	-24.05	-45.86	-14	-10.05	0
103.4	-23.69	-45.50	-14	-9.69	0
103.5	-23.35	-45.16	-14	-9.35	0
103.6	-23.03	-44.84	-14	-9.03	0
103.7	-22.74	-44.55	-14	-8.74	0
103.8	-22.48	-44.29	-14	-8.48	0
103.9	-22.25	-44.06	-14	-8.25	0
104.0	-22.04	-43.85	-14	-8.04	0
104.1	-21.87	-43.68	-14	-7.87	0

104.2	-21.73	-43.54	-14	-7.73	0
104.3	-21.62	-43.43	-14	-7.62	0
104.4	-21.54	-43.35	-14	-7.54	0
104.5	-21.50	-43.31	-14	-7.50	0
104.6	-21.48	-43.29	-14	-7.48	0
104.7	-21.50	-43.31	-14	-7.50	0
104.8	-21.55	-43.36	-14	-7.55	0
104.9	-21.63	-43.44	-14	-7.63	0
105.0	-21.75	-43.56	-14	-7.75	0
105.1	-21.90	-43.71	-14	-7.90	0
105.2	-22.08	-43.89	-14	-8.08	0
105.3	-22.30	-44.11	-14	-8.30	0
105.4	-22.56	-44.37	-14	-8.56	0
105.5	-22.86	-44.67	-14	-8.86	0
105.6	-23.20	-45.01	-14	-9.20	0
105.7	-23.57	-45.38	-14	-9.57	0
105.8	-23.99	-45.80	-14	-9.99	0
105.9	-24.45	-46.26	-14	-10.45	0
106.0	-24.95	-46.76	-14	-10.95	0
106.1	-25.48	-47.29	-14	-11.48	0
106.2	-26.05	-47.86	-14	-12.05	0
106.3	-26.64	-48.45	-14	-12.64	0
106.4	-27.23	-49.04	-14	-13.23	0
106.5	-27.81	-49.62	-14	-13.81	0
106.6	-28.33	-50.14	-14	-14.33	0
106.7	-28.76	-50.57	-14	-14.76	0
106.8	-29.05	-50.86	-14	-15.05	0
106.9	-29.16	-50.97	-14	-15.16	0
107.0	-29.08	-50.89	-14	-15.08	0
107.1	-28.82	-50.63	-14	-14.82	0
107.2	-28.42	-50.23	-14	-14.42	0
107.3	-27.92	-49.73	-14	-13.92	0
107.4	-27.37	-49.18	-14	-13.37	0
107.5	-26.80	-48.61	-14	-12.80	0
107.6	-26.24	-48.05	-14	-12.24	0
107.7	-25.70	-47.51	-14	-11.70	0
107.8	-25.19	-47.00	-14	-11.19	0
107.9	-24.73	-46.53	-14	-10.73	0
108.0	-24.30	-46.11	-14	-10.30	0
108.1	-23.92	-45.73	-14	-9.92	0
108.2	-23.58	-45.39	-14	-9.58	0
108.3	-23.29	-45.09	-14	-9.29	0
108.4	-23.03	-44.84	-14	-9.03	0
108.5	-22.82	-44.63	-14	-8.82	0
108.6	-22.66	-44.47	-14	-8.66	0
108.7	-22.53	-44.34	-14	-8.53	0
108.8	-22.44	-44.25	-14	-8.44	0
108.9	-22.40	-44.21	-14	-8.40	0
109.0	-22.39	-44.20	-14	-8.39	0
109.1	-22.43	-44.24	-14	-8.43	0

109.2	-22.51	-44.32	-14	-8.51	0
109.3	-22.63	-44.43	-14	-8.63	0
109.4	-22.79	-44.60	-14	-8.79	0
109.5	-22.99	-44.80	-14	-8.99	0
109.6	-23.24	-45.05	-14	-9.24	0
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109.8	-23.89	-45.70	-14	-9.89	0
109.9	-24.29	-46.10	-14	-10.29	0
110.0	-24.74	-46.55	-14	-10.74	0
110.1	-25.25	-47.06	-14	-11.25	0
110.2	-25.81	-47.62	-14	-11.81	0
110.3	-26.43	-48.24	-14	-12.43	0
110.4	-27.11	-48.92	-14	-13.11	0
110.5	-27.84	-49.65	-14	-13.84	0
110.6	-28.60	-50.41	-14	-14.60	0
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110.9	-30.72	-52.53	-14	-16.72	0
111.0	-31.15	-52.96	-14	-17.15	0
111.1	-31.32	-53.13	-14	-17.32	0
111.2	-31.18	-52.99	-14	-17.18	0
111.3	-30.78	-52.59	-14	-16.78	0
111.4	-30.20	-52.00	-14	-16.20	0
111.5	-29.51	-51.32	-14	-15.51	0
111.6	-28.79	-50.59	-14	-14.79	0
111.7	-28.07	-49.88	-14	-14.07	0
111.8	-27.40	-49.21	-14	-13.40	0
111.9	-26.78	-48.59	-14	-12.78	0
112.0	-26.21	-48.02	-14	-12.21	0
112.1	-25.71	-47.52	-14	-11.71	0
112.2	-25.26	-47.07	-14	-11.26	0
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112.5	-24.26	-46.07	-14	-10.26	0
112.6	-24.03	-45.84	-14	-10.03	0
112.7	-23.85	-45.66	-14	-9.85	0
112.8	-23.72	-45.53	-14	-9.72	0
112.9	-23.64	-45.45	-14	-9.64	0
113.0	-23.61	-45.42	-14	-9.61	0
113.1	-23.63	-45.44	-14	-9.63	0
113.2	-23.69	-45.50	-14	-9.69	0
113.3	-23.80	-45.61	-14	-9.80	0
113.4	-23.95	-45.76	-14	-9.95	0
113.5	-24.16	-45.97	-14	-10.16	0
113.6	-24.42	-46.23	-14	-10.42	0
113.7	-24.72	-46.53	-14	-10.72	0
113.8	-25.08	-46.89	-14	-11.08	0
113.9	-25.50	-47.31	-14	-11.50	0
114.0	-25.97	-47.78	-14	-11.97	0
114.1	-26.50	-48.31	-14	-12.50	0

114.2	-27.08	-48.89	-14	-13.08	0
114.3	-27.73	-49.54	-14	-13.73	0
114.4	-28.42	-50.23	-14	-14.42	0
114.5	-29.15	-50.96	-14	-15.15	0
114.6	-29.91	-51.72	-14	-15.91	0
114.7	-30.64	-52.45	-14	-16.64	0
114.8	-31.29	-53.10	-14	-17.29	0
114.9	-31.78	-53.59	-14	-17.78	0
115.0	-32.05	-53.86	-14	-18.05	0
115.1	-32.04	-53.84	-14	-18.04	0
115.2	-31.75	-53.56	-14	-17.75	0
115.3	-31.26	-53.07	-14	-17.26	0
115.4	-30.64	-52.45	-14	-16.64	0
115.5	-29.96	-51.77	-14	-15.96	0
115.6	-29.28	-51.09	-14	-15.28	0
115.7	-28.61	-50.42	-14	-14.61	0
115.8	-28.00	-49.81	-14	-14.00	0
115.9	-27.43	-49.24	-14	-13.43	0
116.0	-26.92	-48.73	-14	-12.92	0
116.1	-26.47	-48.28	-14	-12.47	0
116.2	-26.07	-47.88	-14	-12.07	0
116.3	-25.73	-47.54	-14	-11.73	0
116.4	-25.43	-47.24	-14	-11.43	0
116.5	-25.19	-47.00	-14	-11.19	0
116.6	-25.00	-46.81	-14	-11.00	0
116.7	-24.85	-46.66	-14	-10.85	0
116.8	-24.75	-46.56	-14	-10.75	0
116.9	-24.69	-46.50	-14	-10.69	0
117.0	-24.67	-46.48	-14	-10.67	0
117.1	-24.70	-46.51	-14	-10.70	0
117.2	-24.77	-46.57	-14	-10.77	0
117.3	-24.88	-46.68	-14	-10.88	0
117.4	-25.03	-46.84	-14	-11.03	0
117.5	-25.22	-47.03	-14	-11.22	0
117.6	-25.46	-47.27	-14	-11.46	0
117.7	-25.75	-47.56	-14	-11.75	0
117.8	-26.08	-47.89	-14	-12.08	0
117.9	-26.46	-48.27	-14	-12.46	0
118.0	-26.88	-48.69	-14	-12.88	0
118.1	-27.36	-49.17	-14	-13.36	0
118.2	-27.89	-49.70	-14	-13.89	0
118.3	-28.47	-50.28	-14	-14.47	0
118.4	-29.10	-50.91	-14	-15.10	0
118.5	-29.77	-51.58	-14	-15.77	0
118.6	-30.47	-52.28	-14	-16.47	0
118.7	-31.17	-52.98	-14	-17.17	0
118.8	-31.82	-53.63	-14	-17.82	0
118.9	-32.37	-54.18	-14	-18.37	0
119.0	-32.74	-54.55	-14	-18.74	0
119.1	-32.86	-54.67	-14	-18.86	0

119.2	-32.71	-54.52	-14	-18.71	0
119.3	-32.31	-54.12	-14	-18.31	0
119.4	-31.73	-53.54	-14	-17.73	0
119.5	-31.04	-52.85	-14	-17.04	0
119.6	-30.30	-52.11	-14	-16.30	0
119.7	-29.57	-51.38	-14	-15.57	0
119.8	-28.86	-50.67	-14	-14.86	0
119.9	-28.20	-50.01	-14	-14.20	0
120.0	-27.59	-49.40	-14	-13.59	0
120.1	-27.04	-48.85	-14	-13.04	0
120.2	-26.54	-48.35	-14	-12.54	0
120.3	-26.10	-47.91	-14	-12.10	0
120.4	-25.72	-47.53	-14	-11.72	0
120.5	-25.39	-47.20	-14	-11.39	0
120.6	-25.12	-46.93	-14	-11.12	0
120.7	-24.90	-46.71	-14	-10.90	0
120.8	-24.74	-46.55	-14	-10.74	0
120.9	-24.63	-46.44	-14	-10.63	0
121.0	-24.58	-46.39	-14	-10.58	0
121.1	-24.59	-46.40	-14	-10.59	0
121.2	-24.65	-46.46	-14	-10.65	0
121.3	-24.78	-46.59	-14	-10.78	0
121.4	-24.97	-46.78	-14	-10.97	0
121.5	-25.24	-47.05	-14	-11.24	0
121.6	-25.58	-47.39	-14	-11.58	0
121.7	-26.00	-47.81	-14	-12.00	0
121.8	-26.52	-48.33	-14	-12.52	0
121.9	-27.15	-48.96	-14	-13.15	0
122.0	-27.90	-49.71	-14	-13.90	0
122.1	-28.80	-50.61	-14	-14.80	0
122.2	-29.88	-51.69	-14	-15.88	0
122.3	-31.18	-52.99	-14	-17.18	0
122.4	-32.75	-54.56	-14	-18.75	0
122.5	-34.64	-56.45	-14	-20.64	0
122.6	-36.84	-58.65	-14	-22.84	0
122.7	-38.90	-60.71	-14	-24.90	0
122.8	-39.44	-61.25	-14	-25.44	0
122.9	-37.84	-59.65	-14	-23.84	0
123.0	-35.51	-57.32	-14	-21.51	0
123.1	-33.35	-55.16	-14	-19.35	0
123.2	-31.52	-53.33	-14	-17.52	0
123.3	-30.01	-51.82	-14	-16.01	0
123.4	-28.74	-50.55	-14	-14.74	0
123.5	-27.67	-49.48	-14	-13.67	0
123.6	-26.77	-48.58	-14	-12.77	0
123.7	-26.01	-47.82	-14	-12.01	0
123.8	-25.38	-47.19	-14	-11.38	0
123.9	-24.85	-46.66	-14	-10.85	0
124.0	-24.42	-46.23	-14	-10.42	0
124.1	-24.09	-45.90	-14	-10.09	0

124.2	-23.84	-45.65	-14	-9.84	0
124.3	-23.67	-45.48	-14	-9.67	0
124.4	-23.58	-45.39	-14	-9.58	0
124.5	-23.57	-45.38	-14	-9.57	0
124.6	-23.65	-45.46	-14	-9.65	0
124.7	-23.80	-45.61	-14	-9.80	0
124.8	-24.05	-45.86	-14	-10.05	0
124.9	-24.38	-46.19	-14	-10.38	0
125.0	-24.82	-46.63	-14	-10.82	0
125.1	-25.36	-47.17	-14	-11.36	0
125.2	-26.03	-47.84	-14	-12.03	0
125.3	-26.85	-48.66	-14	-12.85	0
125.4	-27.85	-49.66	-14	-13.85	0
125.5	-29.07	-50.88	-14	-15.07	0
125.6	-30.58	-52.39	-14	-16.58	0
125.7	-32.51	-54.32	-14	-18.51	0
125.8	-35.07	-56.88	-14	-21.07	0
125.9	-38.72	-60.53	-14	-24.72	0
126.0	-44.41	-66.22	-14	-30.41	0
126.1	-46.84	-68.65	-14	-32.84	0
126.2	-40.59	-62.40	-14	-26.59	0
126.3	-36.34	-58.15	-14	-22.34	0
126.4	-33.48	-55.29	-14	-19.48	0
126.5	-31.38	-53.19	-14	-17.38	0
126.6	-29.76	-51.57	-14	-15.76	0
126.7	-28.48	-50.29	-14	-14.48	0
126.8	-27.44	-49.25	-14	-13.44	0
126.9	-26.59	-48.40	-14	-12.59	0
127.0	-25.90	-47.71	-14	-11.90	0
127.1	-25.35	-47.16	-14	-11.35	0
127.2	-24.91	-46.72	-14	-10.91	0
127.3	-24.58	-46.39	-14	-10.58	0
127.4	-24.34	-46.15	-14	-10.34	0
127.5	-24.19	-46.00	-14	-10.19	0
127.6	-24.13	-45.94	-14	-10.13	0
127.7	-24.15	-45.96	-14	-10.15	0
127.8	-24.25	-46.06	-14	-10.25	0
127.9	-24.43	-46.24	-14	-10.43	0
128.0	-24.68	-46.49	-14	-10.68	0
128.1	-25.02	-46.83	-14	-11.02	0
128.2	-25.44	-47.25	-14	-11.44	0
128.3	-25.96	-47.77	-14	-11.96	0
128.4	-26.56	-48.37	-14	-12.56	0
128.5	-27.27	-49.08	-14	-13.27	0
128.6	-28.10	-49.91	-14	-14.10	0
128.7	-29.05	-50.86	-14	-15.05	0
128.8	-30.14	-51.95	-14	-16.14	0
128.9	-31.39	-53.20	-14	-17.39	0
129.0	-32.82	-54.63	-14	-18.82	0
129.1	-34.43	-56.24	-14	-20.43	0

129.2	-36.13	-57.94	-14	-22.13	0
129.3	-37.66	-59.47	-14	-23.66	0
129.4	-38.48	-60.29	-14	-24.48	0
129.5	-38.13	-59.94	-14	-24.13	0
129.6	-36.89	-58.70	-14	-22.89	0
129.7	-35.37	-57.18	-14	-21.37	0
129.8	-33.88	-55.69	-14	-19.88	0
129.9	-32.54	-54.35	-14	-18.54	0
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130.1	-30.33	-52.14	-14	-16.33	0
130.2	-29.42	-51.23	-14	-15.42	0
130.3	-28.62	-50.43	-14	-14.62	0
130.4	-27.91	-49.72	-14	-13.91	0
130.5	-27.28	-49.09	-14	-13.28	0
130.6	-26.72	-48.52	-14	-12.72	0
130.7	-26.22	-48.03	-14	-12.22	0
130.8	-25.79	-47.59	-14	-11.79	0
130.9	-25.41	-47.22	-14	-11.41	0
131.0	-25.10	-46.91	-14	-11.10	0
131.1	-24.84	-46.65	-14	-10.84	0
131.2	-24.65	-46.46	-14	-10.65	0
131.3	-24.52	-46.32	-14	-10.52	0
131.4	-24.45	-46.26	-14	-10.45	0
131.5	-24.46	-46.27	-14	-10.46	0
131.6	-24.55	-46.36	-14	-10.55	0
131.7	-24.72	-46.53	-14	-10.72	0
131.8	-24.98	-46.79	-14	-10.98	0
131.9	-25.35	-47.16	-14	-11.35	0
132.0	-25.84	-47.65	-14	-11.84	0
132.1	-26.47	-48.28	-14	-12.47	0
132.2	-27.26	-49.07	-14	-13.26	0
132.3	-28.27	-50.08	-14	-14.27	0
132.4	-29.55	-51.36	-14	-15.55	0
132.5	-31.20	-53.01	-14	-17.20	0
132.6	-33.39	-55.20	-14	-19.39	0
132.7	-36.43	-58.24	-14	-22.43	0
132.8	-40.80	-62.61	-14	-26.80	0
132.9	-43.97	-65.78	-14	-29.97	0
133.0	-39.66	-61.47	-14	-25.66	0
133.1	-35.35	-57.16	-14	-21.35	0
133.2	-32.29	-54.10	-14	-18.29	0
133.3	-30.01	-51.82	-14	-16.01	0
133.4	-28.24	-50.05	-14	-14.24	0
133.5	-26.83	-48.64	-14	-12.83	0
133.6	-25.68	-47.49	-14	-11.68	0
133.7	-24.74	-46.55	-14	-10.74	0
133.8	-23.98	-45.79	-14	-9.98	0
133.9	-23.36	-45.17	-14	-9.36	0
134.0	-22.88	-44.69	-14	-8.88	0
134.1	-22.52	-44.33	-14	-8.52	0

134.2	-22.28	-44.09	-14	-8.28	0
134.3	-22.14	-43.95	-14	-8.14	0
134.4	-22.11	-43.92	-14	-8.11	0
134.5	-22.19	-44.00	-14	-8.19	0
134.6	-22.38	-44.19	-14	-8.38	0
134.7	-22.69	-44.50	-14	-8.69	0
134.8	-23.12	-44.93	-14	-9.12	0
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135.1	-25.29	-47.10	-14	-11.29	0
135.2	-26.40	-48.21	-14	-12.40	0
135.3	-27.76	-49.57	-14	-13.76	0
135.4	-29.46	-51.27	-14	-15.46	0
135.5	-31.58	-53.39	-14	-17.58	0
135.6	-34.20	-56.01	-14	-20.20	0
135.7	-36.95	-58.76	-14	-22.95	0
135.8	-37.88	-59.69	-14	-23.88	0
135.9	-35.84	-57.65	-14	-21.84	0
136.0	-33.16	-54.97	-14	-19.16	0
136.1	-30.91	-52.72	-14	-16.91	0
136.2	-29.13	-50.94	-14	-15.13	0
136.3	-27.73	-49.54	-14	-13.73	0
136.4	-26.63	-48.44	-14	-12.63	0
136.5	-25.76	-47.57	-14	-11.76	0
136.6	-25.09	-46.90	-14	-11.09	0
136.7	-24.58	-46.39	-14	-10.58	0
136.8	-24.22	-46.03	-14	-10.22	0
136.9	-23.99	-45.80	-14	-9.99	0
137.0	-23.87	-45.68	-14	-9.87	0
137.1	-23.87	-45.68	-14	-9.87	0
137.2	-23.97	-45.78	-14	-9.97	0
137.3	-24.16	-45.97	-14	-10.16	0
137.4	-24.46	-46.27	-14	-10.46	0
137.5	-24.84	-46.65	-14	-10.84	0
137.6	-25.31	-47.12	-14	-11.31	0
137.7	-25.86	-47.67	-14	-11.86	0
137.8	-26.50	-48.30	-14	-12.50	0
137.9	-27.20	-49.01	-14	-13.20	0
138.0	-27.97	-49.78	-14	-13.97	0
138.1	-28.79	-50.60	-14	-14.79	0
138.2	-29.66	-51.47	-14	-15.66	0
138.3	-30.58	-52.39	-14	-16.58	0
138.4	-31.53	-53.34	-14	-17.53	0
138.5	-32.54	-54.35	-14	-18.54	0
138.6	-33.61	-55.42	-14	-19.61	0
138.7	-34.80	-56.61	-14	-20.80	0
138.8	-36.14	-57.95	-14	-22.14	0
138.9	-37.66	-59.47	-14	-23.66	0
139.0	-39.25	-61.06	-14	-25.25	0
139.1	-40.39	-62.20	-14	-26.39	0

139.2	-40.11	-61.92	-14	-26.11	0
139.3	-38.31	-60.12	-14	-24.31	0
139.4	-35.99	-57.80	-14	-21.99	0
139.5	-33.76	-55.57	-14	-19.76	0
139.6	-31.80	-53.61	-14	-17.80	0
139.7	-30.10	-51.91	-14	-16.10	0
139.8	-28.65	-50.46	-14	-14.65	0
139.9	-27.40	-49.21	-14	-13.40	0
140.0	-26.33	-48.14	-14	-12.33	0
140.1	-25.42	-47.23	-14	-11.42	0
140.2	-24.66	-46.47	-14	-10.66	0
140.3	-24.04	-45.85	-14	-10.04	0
140.4	-23.54	-45.35	-14	-9.54	0
140.5	-23.17	-44.98	-14	-9.17	0
140.6	-22.92	-44.73	-14	-8.92	0
140.7	-22.79	-44.60	-14	-8.79	0
140.8	-22.79	-44.60	-14	-8.79	0
140.9	-22.91	-44.72	-14	-8.91	0
141.0	-23.16	-44.97	-14	-9.16	0
141.1	-23.57	-45.38	-14	-9.57	0
141.2	-24.13	-45.94	-14	-10.13	0
141.3	-24.88	-46.69	-14	-10.88	0
141.4	-25.84	-47.65	-14	-11.84	0
141.5	-27.06	-48.87	-14	-13.06	0
141.6	-28.58	-50.38	-14	-14.58	0
141.7	-30.44	-52.25	-14	-16.44	0
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141.9	-34.41	-56.22	-14	-20.41	0
142.0	-34.57	-56.38	-14	-20.57	0
142.1	-32.88	-54.69	-14	-18.88	0
142.2	-30.70	-52.51	-14	-16.70	0
142.3	-28.74	-50.55	-14	-14.74	0
142.4	-27.14	-48.95	-14	-13.14	0
142.5	-25.85	-47.66	-14	-11.85	0
142.6	-24.83	-46.64	-14	-10.83	0
142.7	-24.03	-45.84	-14	-10.03	0
142.8	-23.43	-45.24	-14	-9.43	0
142.9	-23.01	-44.82	-14	-9.01	0
143.0	-22.75	-44.55	-14	-8.75	0
143.1	-22.63	-44.44	-14	-8.63	0
143.2	-22.67	-44.48	-14	-8.67	0
143.3	-22.85	-44.66	-14	-8.85	0
143.4	-23.18	-44.99	-14	-9.18	0
143.5	-23.66	-45.47	-14	-9.66	0
143.6	-24.32	-46.13	-14	-10.32	0
143.7	-25.17	-46.98	-14	-11.17	0
143.8	-26.23	-48.04	-14	-12.23	0
143.9	-27.55	-49.36	-14	-13.55	0
144.0	-29.20	-51.01	-14	-15.20	0
144.1	-31.28	-53.09	-14	-17.28	0

144.2	-33.93	-55.74	-14	-19.93	0
144.3	-37.29	-59.10	-14	-23.29	0
144.4	-40.66	-62.47	-14	-26.66	0
144.5	-40.55	-62.36	-14	-26.55	0
144.6	-37.67	-59.48	-14	-23.67	0
144.7	-35.12	-56.93	-14	-21.12	0
144.8	-33.29	-55.10	-14	-19.29	0
144.9	-32.01	-53.82	-14	-18.01	0
145.0	-31.15	-52.96	-14	-17.15	0
145.1	-30.62	-52.43	-14	-16.62	0
145.2	-30.36	-52.17	-14	-16.36	0
145.3	-30.30	-52.11	-14	-16.30	0
145.4	-30.40	-52.21	-14	-16.40	0
145.5	-30.58	-52.39	-14	-16.58	0
145.6	-30.74	-52.55	-14	-16.74	0
145.7	-30.76	-52.57	-14	-16.76	0
145.8	-30.55	-52.36	-14	-16.55	0
145.9	-30.06	-51.87	-14	-16.06	0
146.0	-29.36	-51.17	-14	-15.36	0
146.1	-28.54	-50.35	-14	-14.54	0
146.2	-27.70	-49.51	-14	-13.70	0
146.3	-26.92	-48.73	-14	-12.92	0
146.4	-26.24	-48.05	-14	-12.24	0
146.5	-25.68	-47.49	-14	-11.68	0
146.6	-25.28	-47.09	-14	-11.28	0
146.7	-25.02	-46.83	-14	-11.02	0
146.8	-24.93	-46.74	-14	-10.93	0
146.9	-25.01	-46.82	-14	-11.01	0
147.0	-25.29	-47.10	-14	-11.29	0
147.1	-25.77	-47.58	-14	-11.77	0
147.2	-26.50	-48.31	-14	-12.50	0
147.3	-27.53	-49.34	-14	-13.53	0
147.4	-28.94	-50.75	-14	-14.94	0
147.5	-30.89	-52.70	-14	-16.89	0
147.6	-33.65	-55.46	-14	-19.65	0
147.7	-37.66	-59.47	-14	-23.66	0
147.8	-41.58	-63.39	-14	-27.58	0
147.9	-38.29	-60.10	-14	-24.29	0
148.0	-33.83	-55.64	-14	-19.83	0
148.1	-30.68	-52.49	-14	-16.68	0
148.2	-28.40	-50.21	-14	-14.40	0
148.3	-26.70	-48.51	-14	-12.70	0
148.4	-25.40	-47.21	-14	-11.40	0
148.5	-24.42	-46.23	-14	-10.42	0
148.6	-23.69	-45.50	-14	-9.69	0
148.7	-23.18	-44.99	-14	-9.18	0
148.8	-22.87	-44.68	-14	-8.87	0
148.9	-22.75	-44.56	-14	-8.75	0
149.0	-22.81	-44.62	-14	-8.81	0
149.1	-23.05	-44.86	-14	-9.05	0

149.2	-23.49	-45.30	-14	-9.49	0
149.3	-24.14	-45.95	-14	-10.14	0
149.4	-25.04	-46.85	-14	-11.04	0
149.5	-26.23	-48.04	-14	-12.23	0
149.6	-27.80	-49.61	-14	-13.80	0
149.7	-29.91	-51.72	-14	-15.91	0
149.8	-32.87	-54.68	-14	-18.87	0
149.9	-37.54	-59.35	-14	-23.54	0
150.0	-48.23	-70.04	-14	-34.23	0
150.1	-45.39	-67.20	-14	-31.39	0
150.2	-37.07	-58.88	-14	-23.07	0
150.3	-33.18	-54.99	-14	-19.18	0
150.4	-30.78	-52.58	-14	-16.78	0
150.5	-29.16	-50.97	-14	-15.16	0
150.6	-28.07	-49.88	-14	-14.07	0
150.7	-27.36	-49.17	-14	-13.36	0
150.8	-26.96	-48.77	-14	-12.96	0
150.9	-26.85	-48.65	-14	-12.85	0
151.0	-26.98	-48.79	-14	-12.98	0
151.1	-27.35	-49.16	-14	-13.35	0
151.2	-27.94	-49.75	-14	-13.94	0
151.3	-28.74	-50.55	-14	-14.74	0
151.4	-29.68	-51.49	-14	-15.68	0
151.5	-30.62	-52.43	-14	-16.62	0
151.6	-31.29	-53.09	-14	-17.29	0
151.7	-31.37	-53.18	-14	-17.37	0
151.8	-30.79	-52.60	-14	-16.79	0
151.9	-29.81	-51.62	-14	-15.81	0
152.0	-28.72	-50.53	-14	-14.72	0
152.1	-27.72	-49.53	-14	-13.72	0
152.2	-26.90	-48.71	-14	-12.90	0
152.3	-26.29	-48.10	-14	-12.29	0
152.4	-25.91	-47.72	-14	-11.91	0
152.5	-25.75	-47.56	-14	-11.75	0
152.6	-25.83	-47.64	-14	-11.83	0
152.7	-26.17	-47.98	-14	-12.17	0
152.8	-26.80	-48.61	-14	-12.80	0
152.9	-27.79	-49.60	-14	-13.79	0
153.0	-29.24	-51.05	-14	-15.24	0
153.1	-31.36	-53.17	-14	-17.36	0
153.2	-34.57	-56.38	-14	-20.57	0
153.3	-39.97	-61.78	-14	-25.97	0
153.4	-44.56	-66.37	-14	-30.56	0
153.5	-37.39	-59.20	-14	-23.39	0
153.6	-32.59	-54.40	-14	-18.59	0
153.7	-29.48	-51.29	-14	-15.48	0
153.8	-27.28	-49.09	-14	-13.28	0
153.9	-25.65	-47.46	-14	-11.65	0
154.0	-24.43	-46.24	-14	-10.43	0
154.1	-23.51	-45.32	-14	-9.51	0

154.2	-22.86	-44.67	-14	-8.86	0
154.3	-22.44	-44.25	-14	-8.44	0
154.4	-22.22	-44.03	-14	-8.22	0
154.5	-22.21	-44.02	-14	-8.21	0
154.6	-22.40	-44.20	-14	-8.40	0
154.7	-22.79	-44.60	-14	-8.79	0
154.8	-23.41	-45.22	-14	-9.41	0
154.9	-24.29	-46.10	-14	-10.29	0
155.0	-25.47	-47.28	-14	-11.47	0
155.1	-27.05	-48.86	-14	-13.05	0
155.2	-29.17	-50.98	-14	-15.17	0
155.3	-32.16	-53.97	-14	-18.16	0
155.4	-36.88	-58.69	-14	-22.88	0
155.5	-47.67	-69.48	-14	-33.67	0
155.6	-44.63	-66.44	-14	-30.63	0
155.7	-36.49	-58.30	-14	-22.49	0
155.8	-32.71	-54.51	-14	-18.71	0
155.9	-30.41	-52.22	-14	-16.41	0
156.0	-28.93	-50.74	-14	-14.93	0
156.1	-27.99	-49.80	-14	-13.99	0
156.2	-27.47	-49.28	-14	-13.47	0
156.3	-27.30	-49.11	-14	-13.30	0
156.4	-27.44	-49.25	-14	-13.44	0
156.5	-27.88	-49.69	-14	-13.88	0
156.6	-28.59	-50.40	-14	-14.59	0
156.7	-29.53	-51.34	-14	-15.53	0
156.8	-30.52	-52.33	-14	-16.52	0
156.9	-31.23	-53.04	-14	-17.23	0
157.0	-31.17	-52.98	-14	-17.17	0
157.1	-30.24	-52.05	-14	-16.24	0
157.2	-28.85	-50.65	-14	-14.85	0
157.3	-27.40	-49.21	-14	-13.40	0
157.4	-26.10	-47.91	-14	-12.10	0
157.5	-25.03	-46.84	-14	-11.03	0
157.6	-24.20	-46.01	-14	-10.20	0
157.7	-23.59	-45.40	-14	-9.59	0
157.8	-23.21	-45.02	-14	-9.21	0
157.9	-23.05	-44.86	-14	-9.05	0
158.0	-23.11	-44.92	-14	-9.11	0
158.1	-23.40	-45.20	-14	-9.40	0
158.2	-23.93	-45.74	-14	-9.93	0
158.3	-24.75	-46.56	-14	-10.75	0
158.4	-25.90	-47.71	-14	-11.90	0
158.5	-27.44	-49.25	-14	-13.44	0
158.6	-29.45	-51.26	-14	-15.45	0
158.7	-31.86	-53.67	-14	-17.86	0
158.8	-33.79	-55.60	-14	-19.79	0
158.9	-33.28	-55.09	-14	-19.28	0
159.0	-30.92	-52.73	-14	-16.92	0
159.1	-28.53	-50.33	-14	-14.53	0

159.2	-26.58	-48.39	-14	-12.58	0
159.3	-25.09	-46.90	-14	-11.09	0
159.4	-23.97	-45.78	-14	-9.97	0
159.5	-23.16	-44.97	-14	-9.16	0
159.6	-22.62	-44.43	-14	-8.62	0
159.7	-22.32	-44.13	-14	-8.32	0
159.8	-22.25	-44.06	-14	-8.25	0
159.9	-22.40	-44.21	-14	-8.40	0
160.0	-22.77	-44.58	-14	-8.77	0
160.1	-23.37	-45.18	-14	-9.37	0
160.2	-24.22	-46.03	-14	-10.22	0
160.3	-25.32	-47.13	-14	-11.32	0
160.4	-26.69	-48.50	-14	-12.69	0
160.5	-28.28	-50.08	-14	-14.28	0
160.6	-29.87	-51.68	-14	-15.87	0
160.7	-30.97	-52.78	-14	-16.97	0
160.8	-30.99	-52.80	-14	-16.99	0
160.9	-30.07	-51.87	-14	-16.07	0
161.0	-28.84	-50.65	-14	-14.84	0
161.1	-27.74	-49.55	-14	-13.74	0
161.2	-26.91	-48.72	-14	-12.91	0
161.3	-26.41	-48.22	-14	-12.41	0
161.4	-26.23	-48.03	-14	-12.23	0
161.5	-26.39	-48.19	-14	-12.39	0
161.6	-26.92	-48.73	-14	-12.92	0
161.7	-27.90	-49.71	-14	-13.90	0
161.8	-29.45	-51.26	-14	-15.45	0
161.9	-31.83	-53.63	-14	-17.83	0
162.0	-35.52	-57.33	-14	-21.52	0
162.1	-40.14	-61.94	-14	-26.14	0
162.2	-37.51	-59.32	-14	-23.51	0
162.3	-32.49	-54.29	-14	-18.49	0
162.4	-28.99	-50.79	-14	-14.99	0
162.5	-26.50	-48.31	-14	-12.50	0
162.6	-24.66	-46.47	-14	-10.66	0
162.7	-23.28	-45.09	-14	-9.28	0
162.8	-22.24	-44.05	-14	-8.24	0
162.9	-21.50	-43.31	-14	-7.50	0
163.0	-21.01	-42.82	-14	-7.01	0
163.1	-20.74	-42.55	-14	-6.74	0
163.2	-20.70	-42.51	-14	-6.70	0
163.3	-20.87	-42.68	-14	-6.87	0
163.4	-21.27	-43.08	-14	-7.27	0
163.5	-21.91	-43.72	-14	-7.91	0
163.6	-22.81	-44.62	-14	-8.81	0
163.7	-24.04	-45.85	-14	-10.04	0
163.8	-25.67	-47.48	-14	-11.67	0
163.9	-27.84	-49.65	-14	-13.84	0
164.0	-30.74	-52.55	-14	-16.74	0
164.1	-34.59	-56.40	-14	-20.59	0

164.2	-37.81	-59.62	-14	-23.81	0
164.3	-35.83	-57.64	-14	-21.83	0
164.4	-32.50	-54.31	-14	-18.50	0
164.5	-30.11	-51.92	-14	-16.11	0
164.6	-28.55	-50.36	-14	-14.55	0
164.7	-27.63	-49.44	-14	-13.63	0
164.8	-27.22	-49.03	-14	-13.22	0
164.9	-27.30	-49.10	-14	-13.30	0
165.0	-27.87	-49.68	-14	-13.87	0
165.1	-29.04	-50.85	-14	-15.04	0
165.2	-31.05	-52.86	-14	-17.05	0
165.3	-34.54	-56.35	-14	-20.54	0
165.4	-42.10	-63.91	-14	-28.10	0
165.5	-46.70	-68.51	-14	-32.70	0
165.6	-35.05	-56.86	-14	-21.05	0
165.7	-30.10	-51.91	-14	-16.10	0
165.8	-26.96	-48.77	-14	-12.96	0
165.9	-24.74	-46.55	-14	-10.74	0
166.0	-23.08	-44.89	-14	-9.08	0
166.1	-21.84	-43.65	-14	-7.84	0
166.2	-20.92	-42.73	-14	-6.92	0
166.3	-20.28	-42.08	-14	-6.28	0
166.4	-19.87	-41.68	-14	-5.87	0
166.5	-19.70	-41.51	-14	-5.70	0
166.6	-19.74	-41.55	-14	-5.74	0
166.7	-20.01	-41.82	-14	-6.01	0
166.8	-20.51	-42.32	-14	-6.51	0
166.9	-21.27	-43.08	-14	-7.27	0
167.0	-22.34	-44.15	-14	-8.34	0
167.1	-23.78	-45.59	-14	-9.78	0
167.2	-25.72	-47.53	-14	-11.72	0
167.3	-28.41	-50.22	-14	-14.41	0
167.4	-32.42	-54.23	-14	-18.42	0
167.5	-39.64	-61.45	-14	-25.64	0
167.6	-44.85	-66.66	-14	-30.85	0
167.7	-35.61	-57.42	-14	-21.61	0
167.8	-31.39	-53.20	-14	-17.39	0
167.9	-29.02	-50.83	-14	-15.02	0
168.0	-27.62	-49.43	-14	-13.62	0
168.1	-26.90	-48.71	-14	-12.90	0
168.2	-26.73	-48.54	-14	-12.73	0
168.3	-27.10	-48.91	-14	-13.10	0
168.4	-28.08	-49.89	-14	-14.08	0
168.5	-29.85	-51.66	-14	-15.85	0
168.6	-32.91	-54.72	-14	-18.91	0
168.7	-38.71	-60.51	-14	-24.71	0
168.8	-42.93	-64.74	-14	-28.93	0
168.9	-34.19	-56.00	-14	-20.19	0
169.0	-29.21	-51.02	-14	-15.21	0
169.1	-25.99	-47.79	-14	-11.99	0

169.2	-23.68	-45.49	-14	-9.68	0
169.3	-21.96	-43.77	-14	-7.96	0
169.4	-20.65	-42.46	-14	-6.65	0
169.5	-19.68	-41.49	-14	-5.68	0
169.6	-18.98	-40.79	-14	-4.98	0
169.7	-18.52	-40.33	-14	-4.52	0
169.8	-18.29	-40.10	-14	-4.29	0
169.9	-18.28	-40.09	-14	-4.28	0
170.0	-18.49	-40.30	-14	-4.49	0
170.1	-18.93	-40.74	-14	-4.93	0
170.2	-19.62	-41.43	-14	-5.62	0
170.3	-20.60	-42.41	-14	-6.60	0
170.4	-21.93	-43.74	-14	-7.93	0
170.5	-23.71	-45.52	-14	-9.71	0
170.6	-26.13	-47.94	-14	-12.13	0
170.7	-29.63	-51.43	-14	-15.63	0
170.8	-35.36	-57.17	-14	-21.36	0
170.9	-45.20	-67.01	-14	-31.20	0
171.0	-36.44	-58.25	-14	-22.44	0
171.1	-31.30	-53.11	-14	-17.30	0
171.2	-28.54	-50.35	-14	-14.54	0
171.3	-26.94	-48.75	-14	-12.94	0
171.4	-26.10	-47.91	-14	-12.10	0
171.5	-25.85	-47.66	-14	-11.85	0
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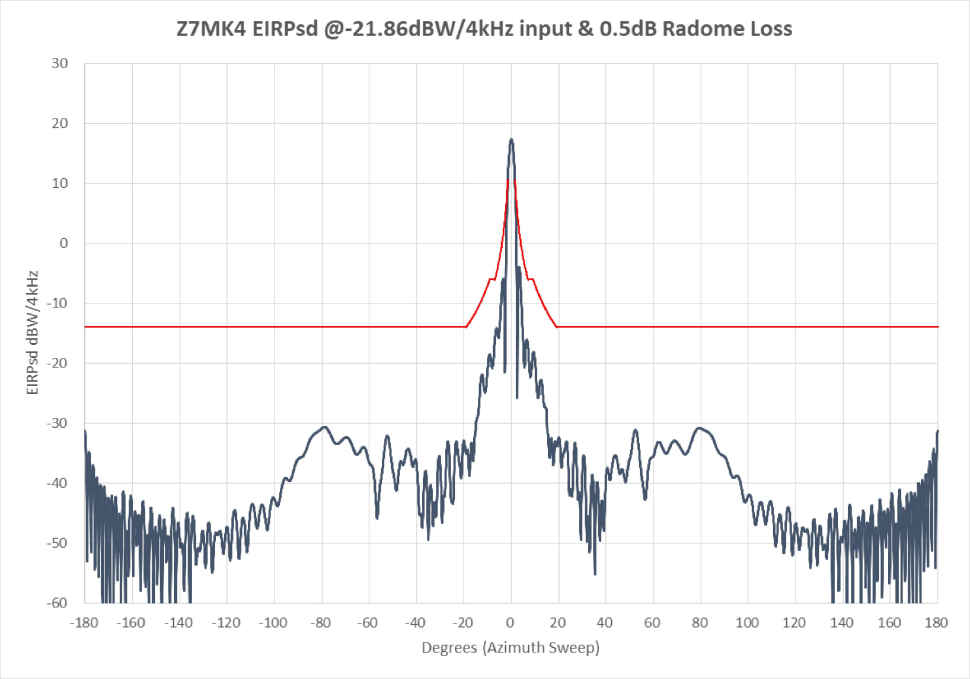
171.7	-27.08	-48.89	-14	-13.08	0
171.8	-28.73	-50.54	-14	-14.73	0
171.9	-31.33	-53.14	-14	-17.33	0
172.0	-34.51	-56.32	-14	-20.51	0
172.1	-34.01	-55.82	-14	-20.01	0
172.2	-29.84	-51.65	-14	-15.84	0
172.3	-26.24	-48.05	-14	-12.24	0
172.4	-23.54	-45.35	-14	-9.54	0
172.5	-21.49	-43.29	-14	-7.49	0
172.6	-19.90	-41.71	-14	-5.90	0
172.7	-18.68	-40.49	-14	-4.68	0
172.8	-17.77	-39.58	-14	-3.77	0
172.9	-17.11	-38.92	-14	-3.11	0
173.0	-16.69	-38.50	-14	-2.69	0
173.1	-16.48	-38.29	-14	-2.48	0
173.2	-16.50	-38.31	-14	-2.50	0
173.3	-16.73	-38.54	-14	-2.73	0
173.4	-17.19	-39.00	-14	-3.19	0
173.5	-17.91	-39.72	-14	-3.91	0
173.6	-18.92	-40.73	-14	-4.92	0
173.7	-20.29	-42.10	-14	-6.29	0
173.8	-22.11	-43.92	-14	-8.11	0
173.9	-24.57	-46.38	-14	-10.57	0
174.0	-27.95	-49.76	-14	-13.95	0
174.1	-32.35	-54.16	-14	-18.35	0

174.2	-33.92	-55.73	-14	-19.92	0
174.3	-30.29	-52.10	-14	-16.29	0
174.4	-27.12	-48.93	-14	-13.12	0
174.5	-25.03	-46.84	-14	-11.03	0
174.6	-23.73	-45.54	-14	-9.73	0
174.7	-23.02	-44.83	-14	-9.02	0
174.8	-22.82	-44.63	-14	-8.82	0
174.9	-23.11	-44.92	-14	-9.11	0
175.0	-23.92	-45.73	-14	-9.92	0
175.1	-25.32	-47.13	-14	-11.32	0
175.2	-27.38	-49.19	-14	-13.38	0
175.3	-29.69	-51.50	-14	-15.69	0
175.4	-29.87	-51.68	-14	-15.87	0
175.5	-26.99	-48.80	-14	-12.99	0
175.6	-23.80	-45.61	-14	-9.80	0
175.7	-21.21	-43.02	-14	-7.21	0
175.8	-19.18	-40.99	-14	-5.18	0
175.9	-17.59	-39.40	-14	-3.59	0
176.0	-16.36	-38.17	-14	-2.36	0
176.1	-15.43	-37.24	-14	-1.43	0
176.2	-14.76	-36.57	-14	-0.76	0
176.3	-14.33	-36.13	-14	-0.33	0
176.4	-14.11	-35.92	-14	-0.11	0
176.5	-14.12	-35.93	-14	-0.12	0
176.6	-14.36	-36.17	-14	-0.36	0
176.7	-14.84	-36.65	-14	-0.84	0
176.8	-15.59	-37.40	-14	-1.59	0
176.9	-16.66	-38.47	-14	-2.66	0
177.0	-18.12	-39.93	-14	-4.12	0
177.1	-20.13	-41.94	-14	-6.13	0
177.2	-22.89	-44.70	-14	-8.89	0
177.3	-26.69	-48.50	-14	-12.69	0
177.4	-30.09	-51.90	-14	-16.09	0
177.5	-27.80	-49.61	-14	-13.80	0
177.6	-24.04	-45.85	-14	-10.04	0
177.7	-21.31	-43.12	-14	-7.31	0
177.8	-19.43	-41.24	-14	-5.43	0
177.9	-18.16	-39.97	-14	-4.16	0
178.0	-17.35	-39.16	-14	-3.35	0
178.1	-16.94	-38.75	-14	-2.94	0
178.2	-16.90	-38.71	-14	-2.90	0
178.3	-17.23	-39.04	-14	-3.23	0
178.4	-17.98	-39.79	-14	-3.98	0
178.5	-19.22	-41.03	-14	-5.22	0
178.6	-21.14	-42.95	-14	-7.14	0
178.7	-24.00	-45.81	-14	-10.00	0
178.8	-27.74	-49.55	-14	-13.74	0
178.9	-28.03	-49.84	-14	-14.03	0
179.0	-23.72	-45.53	-14	-9.72	0
179.1	-20.00	-41.81	-14	-6.00	0

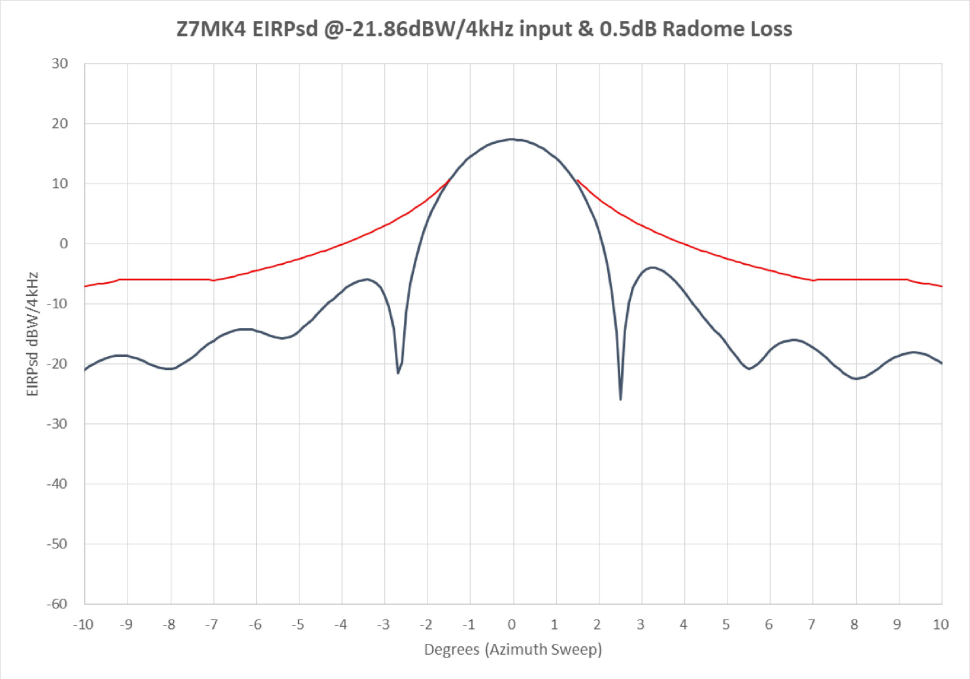
179.2	-17.27	-39.07	-14	-3.27	0
179.3	-15.20	-37.01	-14	-1.20	0
179.4	-13.62	-35.43	-14	0.38	0
179.5	-12.39	-34.20	-14	1.61	0
179.6	-11.45	-33.26	-14	2.55	0
179.7	-10.76	-32.57	-14	3.24	0
179.8	-10.28	-32.09	-14	3.72	0
179.9	-10.00	-31.81	-14	4.00	0
180.0	-10.86	-32.67	-14	3.14	0

3) 14.5GHz

a) At off-axis angles from ±180° range (Tangent)



b) At off-axis angles from ±10° range (Tangent)



Model	Z7MK4		Min input: (@all freq.)	-21.86
Frequency	14.50	[GHz]		
GSO arc	Tangent			
EIRPsd Input	-21.86	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	39.22			

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		out of spec. 0
-180.0	-9.39	-31.24	-14	4.61	0
-179.9	-10.30	-32.15	-14	3.70	0
-179.8	-10.67	-32.53	-14	3.33	0
-179.7	-11.32	-33.17	-14	2.68	0
-179.6	-12.27	-34.13	-14	1.73	0
-179.5	-13.61	-35.47	-14	0.39	0
-179.4	-15.46	-37.32	-14	-1.46	0
-179.3	-18.07	-39.93	-14	-4.07	0
-179.2	-22.03	-43.88	-14	-8.03	0
-179.1	-29.02	-50.88	-14	-15.02	0
-179.0	-31.15	-53.01	-14	-17.15	0
-178.9	-23.51	-45.37	-14	-9.51	0
-178.8	-19.41	-41.26	-14	-5.41	0
-178.7	-16.87	-38.73	-14	-2.87	0
-178.6	-15.19	-37.05	-14	-1.19	0
-178.5	-14.08	-35.93	-14	-0.08	0
-178.4	-13.38	-35.23	-14	0.62	0
-178.3	-13.03	-34.89	-14	0.97	0
-178.2	-13.00	-34.85	-14	1.00	0
-178.1	-13.27	-35.13	-14	0.73	0
-178.0	-13.86	-35.71	-14	0.14	0
-177.9	-14.79	-36.65	-14	-0.79	0
-177.8	-16.14	-38.00	-14	-2.14	0
-177.7	-18.04	-39.90	-14	-4.04	0
-177.6	-20.74	-42.59	-14	-6.74	0
-177.5	-24.68	-46.54	-14	-10.68	0
-177.4	-29.72	-51.57	-14	-15.72	0
-177.3	-28.16	-50.01	-14	-14.16	0
-177.2	-23.49	-45.35	-14	-9.49	0
-177.1	-20.33	-42.18	-14	-6.33	0
-177.0	-18.23	-40.08	-14	-4.23	0
-176.9	-16.81	-38.67	-14	-2.81	0
-176.8	-15.90	-37.75	-14	-1.90	0
-176.7	-15.38	-37.24	-14	-1.38	0
-176.6	-15.21	-37.07	-14	-1.21	0
-176.5	-15.37	-37.22	-14	-1.37	0
-176.4	-15.85	-37.71	-14	-1.85	0
-176.3	-16.70	-38.55	-14	-2.70	0
-176.2	-17.97	-39.83	-14	-3.97	0
-176.1	-19.79	-41.65	-14	-5.79	0
-176.0	-22.43	-44.28	-14	-8.43	0
-175.9	-26.43	-48.28	-14	-12.43	0

-175.8	-32.62	-54.48	-14	-18.62	0
-175.7	-31.90	-53.75	-14	-17.90	0
-175.6	-26.17	-48.03	-14	-12.17	0
-175.5	-22.63	-44.49	-14	-8.63	0
-175.4	-20.37	-42.22	-14	-6.37	0
-175.3	-18.87	-40.73	-14	-4.87	0
-175.2	-17.91	-39.77	-14	-3.91	0
-175.1	-17.38	-39.23	-14	-3.38	0
-175.0	-17.21	-39.06	-14	-3.21	0
-174.9	-17.38	-39.24	-14	-3.38	0
-174.8	-17.91	-39.77	-14	-3.91	0
-174.7	-18.83	-40.68	-14	-4.83	0
-174.6	-20.21	-42.07	-14	-6.21	0
-174.5	-22.21	-44.07	-14	-8.21	0
-174.4	-25.12	-46.98	-14	-11.12	0
-174.3	-29.47	-51.33	-14	-15.47	0
-174.2	-33.76	-55.61	-14	-19.76	0
-174.1	-30.02	-51.88	-14	-16.02	0
-174.0	-25.69	-47.55	-14	-11.69	0
-173.9	-22.84	-44.70	-14	-8.84	0
-173.8	-20.94	-42.79	-14	-6.94	0
-173.7	-19.67	-41.52	-14	-5.67	0
-173.6	-18.87	-40.73	-14	-4.87	0
-173.5	-18.47	-40.33	-14	-4.47	0
-173.4	-18.43	-40.29	-14	-4.43	0
-173.3	-18.74	-40.60	-14	-4.74	0
-173.2	-19.43	-41.28	-14	-5.43	0
-173.1	-20.55	-42.40	-14	-6.55	0
-173.0	-22.23	-44.08	-14	-8.23	0
-172.9	-24.74	-46.59	-14	-10.74	0
-172.8	-28.75	-50.61	-14	-14.75	0
-172.7	-36.78	-58.63	-14	-22.78	0
-172.6	-38.29	-60.15	-14	-24.29	0
-172.5	-29.43	-51.29	-14	-15.43	0
-172.4	-25.21	-47.06	-14	-11.21	0
-172.3	-22.62	-44.47	-14	-8.62	0
-172.2	-20.89	-42.75	-14	-6.89	0
-172.1	-19.75	-41.61	-14	-5.75	0
-172.0	-19.04	-40.90	-14	-5.04	0
-171.9	-18.70	-40.55	-14	-4.70	0
-171.8	-18.68	-40.54	-14	-4.68	0
-171.7	-19.00	-40.85	-14	-5.00	0
-171.6	-19.66	-41.52	-14	-5.66	0
-171.5	-20.72	-42.57	-14	-6.72	0
-171.4	-22.27	-44.13	-14	-8.27	0
-171.3	-24.53	-46.39	-14	-10.53	0
-171.2	-27.96	-49.82	-14	-13.96	0
-171.1	-33.98	-55.84	-14	-19.98	0
-171.0	-42.98	-64.83	-14	-28.98	0
-170.9	-32.65	-54.51	-14	-18.65	0

-170.8	-27.60	-49.45	-14	-13.60	0
-170.7	-24.68	-46.54	-14	-10.68	0
-170.6	-22.82	-44.67	-14	-8.82	0
-170.5	-21.61	-43.47	-14	-7.61	0
-170.4	-20.89	-42.75	-14	-6.89	0
-170.3	-20.57	-42.43	-14	-6.57	0
-170.2	-20.63	-42.48	-14	-6.63	0
-170.1	-21.05	-42.91	-14	-7.05	0
-170.0	-21.88	-43.74	-14	-7.88	0
-169.9	-23.19	-45.04	-14	-9.19	0
-169.8	-25.14	-47.00	-14	-11.14	0
-169.7	-28.08	-49.94	-14	-14.08	0
-169.6	-32.79	-54.65	-14	-18.79	0
-169.5	-38.56	-60.41	-14	-24.56	0
-169.4	-33.38	-55.24	-14	-19.38	0
-169.3	-28.43	-50.28	-14	-14.43	0
-169.2	-25.34	-47.20	-14	-11.34	0
-169.1	-23.29	-45.15	-14	-9.29	0
-169.0	-21.90	-43.75	-14	-7.90	0
-168.9	-20.99	-42.84	-14	-6.99	0
-168.8	-20.46	-42.32	-14	-6.46	0
-168.7	-20.29	-42.14	-14	-6.29	0
-168.6	-20.44	-42.30	-14	-6.44	0
-168.5	-20.94	-42.79	-14	-6.94	0
-168.4	-21.82	-43.67	-14	-7.82	0
-168.3	-23.16	-45.02	-14	-9.16	0
-168.2	-25.14	-46.99	-14	-11.14	0
-168.1	-28.11	-49.96	-14	-14.11	0
-168.0	-33.05	-54.91	-14	-19.05	0
-167.9	-42.04	-63.90	-14	-28.04	0
-167.8	-35.16	-57.01	-14	-21.16	0
-167.7	-29.28	-51.14	-14	-15.28	0
-167.6	-25.94	-47.79	-14	-11.94	0
-167.5	-23.76	-45.62	-14	-9.76	0
-167.4	-22.28	-44.14	-14	-8.28	0
-167.3	-21.30	-43.16	-14	-7.30	0
-167.2	-20.71	-42.56	-14	-6.71	0
-167.1	-20.45	-42.31	-14	-6.45	0
-167.0	-20.50	-42.36	-14	-6.50	0
-166.9	-20.86	-42.72	-14	-6.86	0
-166.8	-21.54	-43.40	-14	-7.54	0
-166.7	-22.59	-44.45	-14	-8.59	0
-166.6	-24.08	-45.94	-14	-10.08	0
-166.5	-26.14	-47.99	-14	-12.14	0
-166.4	-28.94	-50.80	-14	-14.94	0
-166.3	-32.47	-54.33	-14	-18.47	0
-166.2	-34.39	-56.25	-14	-20.39	0
-166.1	-31.90	-53.75	-14	-17.90	0
-166.0	-28.80	-50.66	-14	-14.80	0
-165.9	-26.53	-48.38	-14	-12.53	0

-165.8	-24.97	-46.83	-14	-10.97	0
-165.7	-23.97	-45.83	-14	-9.97	0
-165.6	-23.42	-45.28	-14	-9.42	0
-165.5	-23.29	-45.14	-14	-9.29	0
-165.4	-23.54	-45.40	-14	-9.54	0
-165.3	-24.23	-46.09	-14	-10.23	0
-165.2	-25.43	-47.29	-14	-11.43	0
-165.1	-27.33	-49.19	-14	-13.33	0
-165.0	-30.36	-52.22	-14	-16.36	0
-164.9	-35.79	-57.65	-14	-21.79	0
-164.8	-45.51	-67.37	-14	-31.51	0
-164.7	-35.10	-56.95	-14	-21.10	0
-164.6	-29.47	-51.33	-14	-15.47	0
-164.5	-26.14	-47.99	-14	-12.14	0
-164.4	-23.88	-45.73	-14	-9.88	0
-164.3	-22.26	-44.12	-14	-8.26	0
-164.2	-21.11	-42.97	-14	-7.11	0
-164.1	-20.31	-42.17	-14	-6.31	0
-164.0	-19.81	-41.67	-14	-5.81	0
-163.9	-19.58	-41.43	-14	-5.58	0
-163.8	-19.60	-41.45	-14	-5.60	0
-163.7	-19.87	-41.72	-14	-5.87	0
-163.6	-20.40	-42.25	-14	-6.40	0
-163.5	-21.21	-43.07	-14	-7.21	0
-163.4	-22.36	-44.22	-14	-8.36	0
-163.3	-23.93	-45.79	-14	-9.93	0
-163.2	-26.07	-47.93	-14	-12.07	0
-163.1	-29.10	-50.96	-14	-15.10	0
-163.0	-33.87	-55.72	-14	-19.87	0
-162.9	-44.20	-66.06	-14	-30.20	0
-162.8	-41.24	-63.09	-14	-27.24	0
-162.7	-33.66	-55.52	-14	-19.66	0
-162.6	-30.11	-51.96	-14	-16.11	0
-162.5	-28.04	-49.90	-14	-14.04	0
-162.4	-26.83	-48.68	-14	-12.83	0
-162.3	-26.21	-48.07	-14	-12.21	0
-162.2	-26.09	-47.95	-14	-12.09	0
-162.1	-26.43	-48.29	-14	-12.43	0
-162.0	-27.26	-49.11	-14	-13.26	0
-161.9	-28.61	-50.47	-14	-14.61	0
-161.8	-30.54	-52.40	-14	-16.54	0
-161.7	-32.78	-54.64	-14	-18.78	0
-161.6	-33.68	-55.53	-14	-19.68	0
-161.5	-31.73	-53.58	-14	-17.73	0
-161.4	-28.89	-50.74	-14	-14.89	0
-161.3	-26.44	-48.29	-14	-12.44	0
-161.2	-24.51	-46.37	-14	-10.51	0
-161.1	-23.04	-44.89	-14	-9.04	0
-161.0	-21.93	-43.79	-14	-7.93	0
-160.9	-21.13	-42.99	-14	-7.13	0

-160.8	-20.60	-42.46	-14	-6.60	0
-160.7	-20.33	-42.18	-14	-6.33	0
-160.6	-20.29	-42.14	-14	-6.29	0
-160.5	-20.48	-42.34	-14	-6.48	0
-160.4	-20.93	-42.78	-14	-6.93	0
-160.3	-21.64	-43.50	-14	-7.64	0
-160.2	-22.67	-44.52	-14	-8.67	0
-160.1	-24.06	-45.92	-14	-10.06	0
-160.0	-25.92	-47.77	-14	-11.92	0
-159.9	-28.36	-50.21	-14	-14.36	0
-159.8	-31.36	-53.22	-14	-17.36	0
-159.7	-33.67	-55.53	-14	-19.67	0
-159.6	-32.56	-54.41	-14	-18.56	0
-159.5	-29.78	-51.63	-14	-15.78	0
-159.4	-27.39	-49.25	-14	-13.39	0
-159.3	-25.63	-47.48	-14	-11.63	0
-159.2	-24.37	-46.23	-14	-10.37	0
-159.1	-23.53	-45.38	-14	-9.53	0
-159.0	-23.02	-44.88	-14	-9.02	0
-158.9	-22.81	-44.67	-14	-8.81	0
-158.8	-22.88	-44.74	-14	-8.88	0
-158.7	-23.21	-45.07	-14	-9.21	0
-158.6	-23.80	-45.66	-14	-9.80	0
-158.5	-24.64	-46.49	-14	-10.64	0
-158.4	-25.69	-47.55	-14	-11.69	0
-158.3	-26.88	-48.74	-14	-12.88	0
-158.2	-27.96	-49.81	-14	-13.96	0
-158.1	-28.52	-50.38	-14	-14.52	0
-158.0	-28.29	-50.14	-14	-14.29	0
-157.9	-27.41	-49.27	-14	-13.41	0
-157.8	-26.32	-48.17	-14	-12.32	0
-157.7	-25.29	-47.14	-14	-11.29	0
-157.6	-24.46	-46.32	-14	-10.46	0
-157.5	-23.89	-45.74	-14	-9.89	0
-157.4	-23.57	-45.42	-14	-9.57	0
-157.3	-23.52	-45.37	-14	-9.52	0
-157.2	-23.75	-45.60	-14	-9.75	0
-157.1	-24.28	-46.14	-14	-10.28	0
-157.0	-25.16	-47.02	-14	-11.16	0
-156.9	-26.47	-48.33	-14	-12.47	0
-156.8	-28.33	-50.19	-14	-14.33	0
-156.7	-30.95	-52.80	-14	-16.95	0
-156.6	-34.32	-56.18	-14	-20.32	0
-156.5	-36.16	-58.01	-14	-22.16	0
-156.4	-33.33	-55.19	-14	-19.33	0
-156.3	-29.86	-51.71	-14	-15.86	0
-156.2	-27.20	-49.06	-14	-13.20	0
-156.1	-25.24	-47.09	-14	-11.24	0
-156.0	-23.78	-45.64	-14	-9.78	0
-155.9	-22.71	-44.56	-14	-8.71	0

-155.8	-21.95	-43.81	-14	-7.95	0
-155.7	-21.46	-43.32	-14	-7.46	0
-155.6	-21.21	-43.07	-14	-7.21	0
-155.5	-21.19	-43.05	-14	-7.19	0
-155.4	-21.39	-43.25	-14	-7.39	0
-155.3	-21.82	-43.68	-14	-7.82	0
-155.2	-22.50	-44.36	-14	-8.50	0
-155.1	-23.45	-45.30	-14	-9.45	0
-155.0	-24.71	-46.57	-14	-10.71	0
-154.9	-26.36	-48.21	-14	-12.36	0
-154.8	-28.49	-50.34	-14	-14.49	0
-154.7	-31.18	-53.03	-14	-17.18	0
-154.6	-34.14	-56.00	-14	-20.14	0
-154.5	-35.48	-57.34	-14	-21.48	0
-154.4	-33.77	-55.63	-14	-19.77	0
-154.3	-31.36	-53.22	-14	-17.36	0
-154.2	-29.45	-51.31	-14	-15.45	0
-154.1	-28.11	-49.97	-14	-14.11	0
-154.0	-27.26	-49.12	-14	-13.26	0
-153.9	-26.83	-48.69	-14	-12.83	0
-153.8	-26.78	-48.64	-14	-12.78	0
-153.7	-27.12	-48.97	-14	-13.12	0
-153.6	-27.86	-49.72	-14	-13.86	0
-153.5	-29.11	-50.96	-14	-15.11	0
-153.4	-31.00	-52.86	-14	-17.00	0
-153.3	-33.85	-55.71	-14	-19.85	0
-153.2	-37.95	-59.80	-14	-23.95	0
-153.1	-39.92	-61.78	-14	-25.92	0
-153.0	-35.59	-57.44	-14	-21.59	0
-152.9	-31.59	-53.44	-14	-17.59	0
-152.8	-28.75	-50.61	-14	-14.75	0
-152.7	-26.69	-48.54	-14	-12.69	0
-152.6	-25.16	-47.01	-14	-11.16	0
-152.5	-24.02	-45.88	-14	-10.02	0
-152.4	-23.20	-45.06	-14	-9.20	0
-152.3	-22.65	-44.51	-14	-8.65	0
-152.2	-22.34	-44.20	-14	-8.34	0
-152.1	-22.26	-44.12	-14	-8.26	0
-152.0	-22.41	-44.26	-14	-8.41	0
-151.9	-22.78	-44.64	-14	-8.78	0
-151.8	-23.41	-45.27	-14	-9.41	0
-151.7	-24.32	-46.18	-14	-10.32	0
-151.6	-25.58	-47.44	-14	-11.58	0
-151.5	-27.29	-49.15	-14	-13.29	0
-151.4	-29.66	-51.51	-14	-15.66	0
-151.3	-33.13	-54.99	-14	-19.13	0
-151.2	-39.00	-60.86	-14	-25.00	0
-151.1	-47.11	-68.96	-14	-33.11	0
-151.0	-38.10	-59.95	-14	-24.10	0
-150.9	-33.08	-54.93	-14	-19.08	0

-150.8	-30.13	-51.99	-14	-16.13	0
-150.7	-28.20	-50.06	-14	-14.20	0
-150.6	-26.90	-48.76	-14	-12.90	0
-150.5	-26.05	-47.91	-14	-12.05	0
-150.4	-25.57	-47.42	-14	-11.57	0
-150.3	-25.40	-47.25	-14	-11.40	0
-150.2	-25.53	-47.38	-14	-11.53	0
-150.1	-25.95	-47.81	-14	-11.95	0
-150.0	-26.70	-48.55	-14	-12.70	0
-149.9	-27.80	-49.65	-14	-13.80	0
-149.8	-29.31	-51.17	-14	-15.31	0
-149.7	-31.29	-53.15	-14	-17.29	0
-149.6	-33.56	-55.42	-14	-19.56	0
-149.5	-35.06	-56.92	-14	-21.06	0
-149.4	-34.14	-55.99	-14	-20.14	0
-149.3	-31.77	-53.63	-14	-17.77	0
-149.2	-29.49	-51.34	-14	-15.49	0
-149.1	-27.64	-49.49	-14	-13.64	0
-149.0	-26.21	-48.06	-14	-12.21	0
-148.9	-25.13	-46.99	-14	-11.13	0
-148.8	-24.35	-46.21	-14	-10.35	0
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-116.9	-22.65	-44.51	-14	-8.65	0
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8.4	0.56	-21.29	-6	6.56	0
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8.6	1.61	-20.25	-6	7.61	0
8.7	2.11	-19.75	-6	8.11	0
8.8	2.56	-19.29	-6	8.56	0
8.9	2.96	-18.90	-6	8.96	0
9.0	3.27	-18.58	-6	9.27	0
9.1	3.51	-18.34	-6	9.51	0

9.2	3.67	-18.19	-6	9.67	0
9.3	3.74	-18.11	-6.212073714	9.96	0
9.4	3.73	-18.12	-6.32819634	10.06	0
9.5	3.64	-18.22	-6.443090132	10.08	0
9.6	3.46	-18.39	-6.556780826	10.02	0
9.7	3.20	-18.65	-6.669293357	9.87	0
9.8	2.87	-18.99	-6.780651892	9.65	0
9.9	2.46	-19.39	-6.890879865	9.35	0
10.0	1.99	-19.87	-7	8.99	0
10.1	1.45	-20.40	-7.108034345	8.56	0
10.2	0.87	-20.99	-7.215004294	8.08	0
10.3	0.25	-21.61	-7.320930618	7.57	0
10.4	-0.40	-22.25	-7.425833482	7.03	0
10.5	-1.05	-22.90	-7.529732477	6.48	0
10.6	-1.68	-23.53	-7.632646632	5.96	0
10.7	-2.27	-24.13	-7.734594442	5.46	0
10.8	-2.80	-24.66	-7.835593887	5.03	0
10.9	-3.25	-25.11	-7.935662449	4.68	0
11.0	-3.60	-25.46	-8.034817129	4.43	0
11.1	-3.84	-25.70	-8.13307447	4.29	0
11.2	-3.95	-25.81	-8.230450567	4.28	0
11.3	-3.94	-25.79	-8.326961087	4.39	0
11.4	-3.80	-25.66	-8.422621283	4.62	0
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11.6	-3.26	-25.11	-8.611449731	5.36	0
11.7	-2.89	-24.75	-8.704646544	5.81	0
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11.9	-2.12	-23.98	-8.888674035	6.77	0
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12.1	-1.45	-23.31	-9.069634258	7.62	0
12.2	-1.20	-23.05	-9.158995767	7.96	0
12.3	-1.01	-22.86	-9.247627786	8.24	0
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13.3	-3.21	-25.07	-10.09629102	6.88	0
13.4	-3.70	-25.56	-10.17761996	6.48	0
13.5	-4.16	-26.02	-10.25834421	6.10	0
13.6	-4.57	-26.43	-10.33847271	5.77	0
13.7	-4.90	-26.76	-10.41801418	5.52	0
13.8	-5.14	-27.00	-10.49697716	5.35	0
13.9	-5.30	-27.16	-10.57537001	5.28	0
14.0	-5.39	-27.24	-10.65320089	5.27	0
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14.2	-5.45	-27.31	-10.80720861	5.35	0
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14.6	-5.68	-27.54	-11.10882139	5.43	0
14.7	-5.80	-27.65	-11.18293337	5.39	0
14.8	-6.53	-28.38	-11.25654288	4.73	0
14.9	-7.07	-28.92	-11.32965671	4.26	0
15.0	-8.20	-30.05	-11.40228148	3.21	0
15.1	-9.53	-31.39	-11.47442368	1.94	0
15.2	-9.83	-31.69	-11.5460897	1.72	0
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15.4	-10.04	-31.90	-11.68801802	1.65	0
15.5	-10.44	-32.29	-11.75829245	1.32	0
15.6	-11.00	-32.86	-11.82811496	0.82	0
15.7	-11.71	-33.57	-11.89749131	0.19	0
15.8	-12.49	-34.35	-11.96642717	-0.52	0
15.9	-13.22	-35.08	-12.03492811	-1.19	0
16.0	-13.73	-35.59	-12.10299957	-1.63	0
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16.2	-13.58	-35.44	-12.23787536	-1.34	0
16.3	-13.01	-34.87	-12.30469011	-0.71	0
16.4	-12.33	-34.19	-12.3710962	0.04	0
16.5	-11.69	-33.55	-12.43709861	0.75	0
16.6	-11.16	-33.02	-12.5027022	1.34	0
16.7	-10.79	-32.65	-12.56791178	1.77	0
16.8	-10.60	-32.46	-12.63273204	2.03	0
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17.2	-11.69	-33.55	-12.88821117	1.20	0
17.3	-12.40	-34.25	-12.95115258	0.55	0
17.4	-13.22	-35.08	-13.01373121	-0.21	0
17.5	-14.07	-35.93	-13.07595122	-0.99	0
17.6	-14.78	-36.64	-13.1378167	-1.64	0
17.7	-15.15	-37.01	-13.19933166	-1.95	0
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17.9	-14.55	-36.41	-13.32132577	-1.23	0
18.0	-13.84	-35.69	-13.38181263	-0.45	0
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18.3	-11.86	-33.72	-13.56127724	1.70	0
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18.9	-11.51	-33.36	-13.9115451	2.41	0
19.0	-11.74	-33.59	-13.96884002	2.23	0
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19.2	-12.06	-33.92	-14	1.94	0
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19.4	-11.93	-33.79	-14	2.07	0
19.5	-11.69	-33.55	-14	2.31	0
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19.7	-11.08	-32.94	-14	2.92	0
19.8	-10.80	-32.66	-14	3.20	0
19.9	-10.60	-32.46	-14	3.40	0
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20.6	-12.41	-34.27	-14	1.59	0
20.7	-13.14	-34.99	-14	0.86	0
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21.0	-15.20	-37.06	-14	-1.20	0
21.1	-15.52	-37.37	-14	-1.52	0
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21.3	-15.29	-37.14	-14	-1.29	0
21.4	-14.89	-36.74	-14	-0.89	0
21.5	-14.43	-36.29	-14	-0.43	0
21.6	-14.00	-35.86	-14	0.00	0
21.7	-13.65	-35.50	-14	0.35	0
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21.9	-13.18	-35.04	-14	0.82	0
22.0	-13.06	-34.92	-14	0.94	0
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22.2	-12.94	-34.79	-14	1.06	0
22.3	-12.87	-34.73	-14	1.13	0
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22.5	-12.62	-34.48	-14	1.38	0
22.6	-12.42	-34.28	-14	1.58	0
22.7	-12.18	-34.03	-14	1.82	0
22.8	-11.91	-33.77	-14	2.09	0
22.9	-11.66	-33.52	-14	2.34	0
23.0	-11.45	-33.31	-14	2.55	0
23.1	-11.30	-33.15	-14	2.70	0
23.2	-11.23	-33.08	-14	2.77	0
23.3	-11.25	-33.11	-14	2.75	0
23.4	-11.39	-33.24	-14	2.61	0
23.5	-11.64	-33.50	-14	2.36	0
23.6	-12.03	-33.89	-14	1.97	0
23.7	-12.56	-34.41	-14	1.44	0
23.8	-13.23	-35.09	-14	0.77	0
23.9	-14.05	-35.91	-14	-0.05	0
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24.1	-16.13	-37.99	-14	-2.13	0

24.2	-17.32	-39.17	-14	-3.32	0
24.3	-18.48	-40.33	-14	-4.48	0
24.4	-19.45	-41.30	-14	-5.45	0
24.5	-20.04	-41.89	-14	-6.04	0
24.6	-20.17	-42.03	-14	-6.17	0
24.7	-19.97	-41.83	-14	-5.97	0
24.8	-19.63	-41.49	-14	-5.63	0
24.9	-19.32	-41.18	-14	-5.32	0
25.0	-19.14	-40.99	-14	-5.14	0
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25.2	-19.30	-41.16	-14	-5.30	0
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25.4	-20.02	-41.87	-14	-6.02	0
25.5	-20.32	-42.18	-14	-6.32	0
25.6	-20.33	-42.18	-14	-6.33	0
25.7	-19.87	-41.72	-14	-5.87	0
25.8	-18.96	-40.82	-14	-4.96	0
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26.2	-14.38	-36.24	-14	-0.38	0
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26.9	-11.47	-33.33	-14	2.53	0
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27.3	-13.08	-34.94	-14	0.92	0
27.4	-13.88	-35.73	-14	0.12	0
27.5	-14.83	-36.69	-14	-0.83	0
27.6	-15.94	-37.79	-14	-1.94	0
27.7	-17.17	-39.03	-14	-3.17	0
27.8	-18.46	-40.31	-14	-4.46	0
27.9	-19.64	-41.50	-14	-5.64	0
28.0	-20.52	-42.37	-14	-6.52	0
28.1	-20.90	-42.75	-14	-6.90	0
28.2	-20.81	-42.67	-14	-6.81	0
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28.5	-19.81	-41.67	-14	-5.81	0
28.6	-19.75	-41.61	-14	-5.75	0
28.7	-19.95	-41.80	-14	-5.95	0
28.8	-20.44	-42.30	-14	-6.44	0
28.9	-21.28	-43.14	-14	-7.28	0
29.0	-22.53	-44.38	-14	-8.53	0
29.1	-24.22	-46.08	-14	-10.22	0

29.2	-26.23	-48.09	-14	-12.23	0
29.3	-27.66	-49.51	-14	-13.66	0
29.4	-26.85	-48.71	-14	-12.85	0
29.5	-24.42	-46.28	-14	-10.42	0
29.6	-21.93	-43.79	-14	-7.93	0
29.7	-19.84	-41.69	-14	-5.84	0
29.8	-18.15	-40.00	-14	-4.15	0
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30.0	-15.74	-37.59	-14	-1.74	0
30.1	-14.91	-36.77	-14	-0.91	0
30.2	-14.30	-36.16	-14	-0.30	0
30.3	-13.87	-35.73	-14	0.13	0
30.4	-13.62	-35.48	-14	0.38	0
30.5	-13.53	-35.39	-14	0.47	0
30.6	-13.60	-35.46	-14	0.40	0
30.7	-13.83	-35.69	-14	0.17	0
30.8	-14.23	-36.08	-14	-0.23	0
30.9	-14.79	-36.64	-14	-0.79	0
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31.1	-16.47	-38.33	-14	-2.47	0
31.2	-17.63	-39.49	-14	-3.63	0
31.3	-19.04	-40.90	-14	-5.04	0
31.4	-20.74	-42.60	-14	-6.74	0
31.5	-22.74	-44.59	-14	-8.74	0
31.6	-24.95	-46.81	-14	-10.95	0
31.7	-26.98	-48.84	-14	-12.98	0
31.8	-27.93	-49.79	-14	-13.93	0
31.9	-27.39	-49.25	-14	-13.39	0
32.0	-26.19	-48.04	-14	-12.19	0
32.1	-25.05	-46.91	-14	-11.05	0
32.2	-24.24	-46.10	-14	-10.24	0
32.3	-23.79	-45.65	-14	-9.79	0
32.4	-23.71	-45.57	-14	-9.71	0
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32.8	-27.13	-48.99	-14	-13.13	0
32.9	-28.72	-50.58	-14	-14.72	0
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33.1	-28.81	-50.67	-14	-14.81	0
33.2	-26.75	-48.60	-14	-12.75	0
33.3	-24.53	-46.39	-14	-10.53	0
33.4	-22.60	-44.46	-14	-8.60	0
33.5	-21.02	-42.87	-14	-7.02	0
33.6	-19.74	-41.60	-14	-5.74	0
33.7	-18.74	-40.59	-14	-4.74	0
33.8	-17.97	-39.82	-14	-3.97	0
33.9	-17.41	-39.26	-14	-3.41	0
34.0	-17.04	-38.90	-14	-3.04	0
34.1	-16.86	-38.71	-14	-2.86	0

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34.4	-17.41	-39.27	-14	-3.41	0
34.5	-17.99	-39.85	-14	-3.99	0
34.6	-18.81	-40.67	-14	-4.81	0
34.7	-19.91	-41.77	-14	-5.91	0
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35.2	-33.44	-55.29	-14	-19.44	0
35.3	-32.36	-54.22	-14	-18.36	0
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36.0	-18.67	-40.53	-14	-4.67	0
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36.2	-18.09	-39.95	-14	-4.09	0
36.3	-18.10	-39.95	-14	-4.10	0
36.4	-18.28	-40.14	-14	-4.28	0
36.5	-18.65	-40.51	-14	-4.65	0
36.6	-19.22	-41.07	-14	-5.22	0
36.7	-19.98	-41.84	-14	-5.98	0
36.8	-20.96	-42.82	-14	-6.96	0
36.9	-22.18	-44.04	-14	-8.18	0
37.0	-23.63	-45.49	-14	-9.63	0
37.1	-25.25	-47.11	-14	-11.25	0
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37.3	-27.76	-49.62	-14	-13.76	0
37.4	-27.58	-49.44	-14	-13.58	0
37.5	-26.50	-48.36	-14	-12.50	0
37.6	-25.15	-47.01	-14	-11.15	0
37.7	-23.90	-45.75	-14	-9.90	0
37.8	-22.87	-44.72	-14	-8.87	0
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38.0	-21.53	-43.39	-14	-7.53	0
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38.3	-21.17	-43.03	-14	-7.17	0
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38.8	-24.50	-46.36	-14	-10.50	0
38.9	-25.47	-47.33	-14	-11.47	0
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39.4	-22.48	-44.34	-14	-8.48	0
39.5	-21.16	-43.01	-14	-7.16	0
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39.7	-18.97	-40.83	-14	-4.97	0
39.8	-18.12	-39.98	-14	-4.12	0
39.9	-17.42	-39.27	-14	-3.42	0
40.0	-16.84	-38.70	-14	-2.84	0
40.1	-16.39	-38.25	-14	-2.39	0
40.2	-16.05	-37.91	-14	-2.05	0
40.3	-15.82	-37.68	-14	-1.82	0
40.4	-15.68	-37.54	-14	-1.68	0
40.5	-15.63	-37.48	-14	-1.63	0
40.6	-15.66	-37.51	-14	-1.66	0
40.7	-15.76	-37.62	-14	-1.76	0
40.8	-15.93	-37.78	-14	-1.93	0
40.9	-16.15	-38.00	-14	-2.15	0
41.0	-16.41	-38.26	-14	-2.41	0
41.1	-16.69	-38.55	-14	-2.69	0
41.2	-16.98	-38.83	-14	-2.98	0
41.3	-17.24	-39.10	-14	-3.24	0
41.4	-17.46	-39.31	-14	-3.46	0
41.5	-17.60	-39.45	-14	-3.60	0
41.6	-17.65	-39.51	-14	-3.65	0
41.7	-17.60	-39.46	-14	-3.60	0
41.8	-17.46	-39.31	-14	-3.46	0
41.9	-17.24	-39.09	-14	-3.24	0
42.0	-16.96	-38.81	-14	-2.96	0
42.1	-16.64	-38.49	-14	-2.64	0
42.2	-16.30	-38.16	-14	-2.30	0
42.3	-15.97	-37.82	-14	-1.97	0
42.4	-15.64	-37.50	-14	-1.64	0
42.5	-15.34	-37.19	-14	-1.34	0
42.6	-15.06	-36.91	-14	-1.06	0
42.7	-14.80	-36.66	-14	-0.80	0
42.8	-14.57	-36.43	-14	-0.57	0
42.9	-14.37	-36.22	-14	-0.37	0
43.0	-14.19	-36.05	-14	-0.19	0
43.1	-14.03	-35.89	-14	-0.03	0
43.2	-13.90	-35.76	-14	0.10	0
43.3	-13.79	-35.65	-14	0.21	0
43.4	-13.70	-35.55	-14	0.30	0
43.5	-13.63	-35.48	-14	0.37	0
43.6	-13.57	-35.43	-14	0.43	0
43.7	-13.54	-35.40	-14	0.46	0
43.8	-13.53	-35.39	-14	0.47	0
43.9	-13.54	-35.40	-14	0.46	0
44.0	-13.57	-35.43	-14	0.43	0
44.1	-13.63	-35.49	-14	0.37	0

44.2	-13.71	-35.57	-14	0.29	0
44.3	-13.82	-35.67	-14	0.18	0
44.4	-13.95	-35.81	-14	0.05	0
44.5	-14.11	-35.97	-14	-0.11	0
44.6	-14.30	-36.15	-14	-0.30	0
44.7	-14.51	-36.36	-14	-0.51	0
44.8	-14.74	-36.59	-14	-0.74	0
44.9	-14.98	-36.84	-14	-0.98	0
45.0	-15.24	-37.10	-14	-1.24	0
45.1	-15.50	-37.36	-14	-1.50	0
45.2	-15.76	-37.62	-14	-1.76	0
45.3	-16.00	-37.85	-14	-2.00	0
45.4	-16.21	-38.07	-14	-2.21	0
45.5	-16.38	-38.24	-14	-2.38	0
45.6	-16.51	-38.37	-14	-2.51	0
45.7	-16.58	-38.44	-14	-2.58	0
45.8	-16.61	-38.46	-14	-2.61	0
45.9	-16.58	-38.44	-14	-2.58	0
46.0	-16.52	-38.37	-14	-2.52	0
46.1	-16.42	-38.28	-14	-2.42	0
46.2	-16.31	-38.16	-14	-2.31	0
46.3	-16.19	-38.05	-14	-2.19	0
46.4	-16.08	-37.93	-14	-2.08	0
46.5	-15.98	-37.84	-14	-1.98	0
46.6	-15.91	-37.76	-14	-1.91	0
46.7	-15.86	-37.72	-14	-1.86	0
46.8	-15.86	-37.71	-14	-1.86	0
46.9	-15.88	-37.74	-14	-1.88	0
47.0	-15.95	-37.81	-14	-1.95	0
47.1	-16.06	-37.92	-14	-2.06	0
47.2	-16.21	-38.06	-14	-2.21	0
47.3	-16.39	-38.25	-14	-2.39	0
47.4	-16.60	-38.46	-14	-2.60	0
47.5	-16.84	-38.69	-14	-2.84	0
47.6	-17.09	-38.94	-14	-3.09	0
47.7	-17.34	-39.19	-14	-3.34	0
47.8	-17.57	-39.42	-14	-3.57	0
47.9	-17.77	-39.62	-14	-3.77	0
48.0	-17.92	-39.77	-14	-3.92	0
48.1	-18.00	-39.85	-14	-4.00	0
48.2	-18.00	-39.85	-14	-4.00	0
48.3	-17.92	-39.77	-14	-3.92	0
48.4	-17.76	-39.62	-14	-3.76	0
48.5	-17.54	-39.40	-14	-3.54	0
48.6	-17.28	-39.13	-14	-3.28	0
48.7	-16.98	-38.83	-14	-2.98	0
48.8	-16.66	-38.52	-14	-2.66	0
48.9	-16.35	-38.20	-14	-2.35	0
49.0	-16.04	-37.90	-14	-2.04	0
49.1	-15.76	-37.61	-14	-1.76	0

49.2	-15.49	-37.35	-14	-1.49	0
49.3	-15.25	-37.10	-14	-1.25	0
49.4	-15.03	-36.89	-14	-1.03	0
49.5	-14.84	-36.69	-14	-0.84	0
49.6	-14.67	-36.52	-14	-0.67	0
49.7	-14.51	-36.37	-14	-0.51	0
49.8	-14.37	-36.22	-14	-0.37	0
49.9	-14.23	-36.08	-14	-0.23	0
50.0	-14.09	-35.95	-14	-0.09	0
50.1	-13.94	-35.80	-14	0.06	0
50.2	-13.79	-35.64	-14	0.21	0
50.3	-13.61	-35.47	-14	0.39	0
50.4	-13.42	-35.28	-14	0.58	0
50.5	-13.20	-35.06	-14	0.80	0
50.6	-12.96	-34.82	-14	1.04	0
50.7	-12.70	-34.56	-14	1.30	0
50.8	-12.42	-34.28	-14	1.58	0
50.9	-12.13	-33.99	-14	1.87	0
51.0	-11.84	-33.69	-14	2.16	0
51.1	-11.54	-33.39	-14	2.46	0
51.2	-11.24	-33.10	-14	2.76	0
51.3	-10.95	-32.81	-14	3.05	0
51.4	-10.68	-32.53	-14	3.32	0
51.5	-10.42	-32.27	-14	3.58	0
51.6	-10.18	-32.04	-14	3.82	0
51.7	-9.97	-31.82	-14	4.03	0
51.8	-9.78	-31.63	-14	4.22	0
51.9	-9.62	-31.47	-14	4.38	0
52.0	-9.48	-31.34	-14	4.52	0
52.1	-9.38	-31.24	-14	4.62	0
52.2	-9.31	-31.17	-14	4.69	0
52.3	-9.27	-31.13	-14	4.73	0
52.4	-9.27	-31.12	-14	4.73	0
52.5	-9.29	-31.15	-14	4.71	0
52.6	-9.35	-31.21	-14	4.65	0
52.7	-9.44	-31.30	-14	4.56	0
52.8	-9.56	-31.42	-14	4.44	0
52.9	-9.72	-31.58	-14	4.28	0
53.0	-9.91	-31.77	-14	4.09	0
53.1	-10.13	-31.99	-14	3.87	0
53.2	-10.38	-32.24	-14	3.62	0
53.3	-10.66	-32.52	-14	3.34	0
53.4	-10.97	-32.83	-14	3.03	0
53.5	-11.31	-33.17	-14	2.69	0
53.6	-11.67	-33.53	-14	2.33	0
53.7	-12.06	-33.92	-14	1.94	0
53.8	-12.47	-34.32	-14	1.53	0
53.9	-12.89	-34.74	-14	1.11	0
54.0	-13.32	-35.17	-14	0.68	0
54.1	-13.75	-35.61	-14	0.25	0

54.2	-14.19	-36.04	-14	-0.19	0
54.3	-14.62	-36.47	-14	-0.62	0
54.4	-15.03	-36.89	-14	-1.03	0
54.5	-15.43	-37.29	-14	-1.43	0
54.6	-15.81	-37.67	-14	-1.81	0
54.7	-16.17	-38.02	-14	-2.17	0
54.8	-16.50	-38.35	-14	-2.50	0
54.9	-16.80	-38.66	-14	-2.80	0
55.0	-17.09	-38.95	-14	-3.09	0
55.1	-17.37	-39.22	-14	-3.37	0
55.2	-17.63	-39.49	-14	-3.63	0
55.3	-17.90	-39.75	-14	-3.90	0
55.4	-18.17	-40.02	-14	-4.17	0
55.5	-18.45	-40.30	-14	-4.45	0
55.6	-18.74	-40.60	-14	-4.74	0
55.7	-19.05	-40.91	-14	-5.05	0
55.8	-19.37	-41.23	-14	-5.37	0
55.9	-19.70	-41.56	-14	-5.70	0
56.0	-20.03	-41.89	-14	-6.03	0
56.1	-20.34	-42.20	-14	-6.34	0
56.2	-20.61	-42.47	-14	-6.61	0
56.3	-20.82	-42.68	-14	-6.82	0
56.4	-20.94	-42.80	-14	-6.94	0
56.5	-20.95	-42.81	-14	-6.95	0
56.6	-20.84	-42.70	-14	-6.84	0
56.7	-20.61	-42.47	-14	-6.61	0
56.8	-20.27	-42.13	-14	-6.27	0
56.9	-19.85	-41.71	-14	-5.85	0
57.0	-19.37	-41.23	-14	-5.37	0
57.1	-18.87	-40.72	-14	-4.87	0
57.2	-18.35	-40.21	-14	-4.35	0
57.3	-17.84	-39.70	-14	-3.84	0
57.4	-17.36	-39.21	-14	-3.36	0
57.5	-16.89	-38.75	-14	-2.89	0
57.6	-16.47	-38.32	-14	-2.47	0
57.7	-16.07	-37.93	-14	-2.07	0
57.8	-15.72	-37.58	-14	-1.72	0
57.9	-15.40	-37.26	-14	-1.40	0
58.0	-15.12	-36.98	-14	-1.12	0
58.1	-14.87	-36.73	-14	-0.87	0
58.2	-14.66	-36.52	-14	-0.66	0
58.3	-14.48	-36.34	-14	-0.48	0
58.4	-14.33	-36.19	-14	-0.33	0
58.5	-14.21	-36.06	-14	-0.21	0
58.6	-14.11	-35.97	-14	-0.11	0
58.7	-14.04	-35.89	-14	-0.04	0
58.8	-13.98	-35.84	-14	0.02	0
58.9	-13.94	-35.80	-14	0.06	0
59.0	-13.92	-35.77	-14	0.08	0
59.1	-13.90	-35.76	-14	0.10	0

59.2	-13.89	-35.75	-14	0.11	0
59.3	-13.88	-35.74	-14	0.12	0
59.4	-13.87	-35.73	-14	0.13	0
59.5	-13.85	-35.71	-14	0.15	0
59.6	-13.82	-35.68	-14	0.18	0
59.7	-13.78	-35.64	-14	0.22	0
59.8	-13.73	-35.59	-14	0.27	0
59.9	-13.66	-35.52	-14	0.34	0
60.0	-13.58	-35.43	-14	0.42	0
60.1	-13.47	-35.33	-14	0.53	0
60.2	-13.36	-35.22	-14	0.64	0
60.3	-13.23	-35.09	-14	0.77	0
60.4	-13.09	-34.95	-14	0.91	0
60.5	-12.95	-34.80	-14	1.05	0
60.6	-12.79	-34.65	-14	1.21	0
60.7	-12.64	-34.50	-14	1.36	0
60.8	-12.49	-34.34	-14	1.51	0
60.9	-12.33	-34.19	-14	1.67	0
61.0	-12.19	-34.04	-14	1.81	0
61.1	-12.05	-33.91	-14	1.95	0
61.2	-11.92	-33.78	-14	2.08	0
61.3	-11.80	-33.66	-14	2.20	0
61.4	-11.69	-33.55	-14	2.31	0
61.5	-11.59	-33.45	-14	2.41	0
61.6	-11.51	-33.36	-14	2.49	0
61.7	-11.43	-33.29	-14	2.57	0
61.8	-11.38	-33.23	-14	2.62	0
61.9	-11.33	-33.19	-14	2.67	0
62.0	-11.30	-33.15	-14	2.70	0
62.1	-11.28	-33.13	-14	2.72	0
62.2	-11.27	-33.12	-14	2.73	0
62.3	-11.27	-33.13	-14	2.73	0
62.4	-11.29	-33.14	-14	2.71	0
62.5	-11.31	-33.17	-14	2.69	0
62.6	-11.35	-33.21	-14	2.65	0
62.7	-11.40	-33.25	-14	2.60	0
62.8	-11.45	-33.31	-14	2.55	0
62.9	-11.51	-33.37	-14	2.49	0
63.0	-11.58	-33.44	-14	2.42	0
63.1	-11.66	-33.51	-14	2.34	0
63.2	-11.74	-33.60	-14	2.26	0
63.3	-11.83	-33.68	-14	2.17	0
63.4	-11.92	-33.77	-14	2.08	0
63.5	-12.01	-33.86	-14	1.99	0
63.6	-12.10	-33.96	-14	1.90	0
63.7	-12.20	-34.05	-14	1.80	0
63.8	-12.29	-34.15	-14	1.71	0
63.9	-12.39	-34.24	-14	1.61	0
64.0	-12.48	-34.34	-14	1.52	0
64.1	-12.57	-34.43	-14	1.43	0

64.2	-12.66	-34.51	-14	1.34	0
64.3	-12.74	-34.60	-14	1.26	0
64.4	-12.82	-34.67	-14	1.18	0
64.5	-12.89	-34.75	-14	1.11	0
64.6	-12.96	-34.81	-14	1.04	0
64.7	-13.02	-34.87	-14	0.98	0
64.8	-13.07	-34.92	-14	0.93	0
64.9	-13.11	-34.97	-14	0.89	0
65.0	-13.15	-35.00	-14	0.85	0
65.1	-13.17	-35.03	-14	0.83	0
65.2	-13.18	-35.04	-14	0.82	0
65.3	-13.19	-35.05	-14	0.81	0
65.4	-13.18	-35.04	-14	0.82	0
65.5	-13.17	-35.02	-14	0.83	0
65.6	-13.14	-35.00	-14	0.86	0
65.7	-13.10	-34.96	-14	0.90	0
65.8	-13.06	-34.91	-14	0.94	0
65.9	-13.00	-34.86	-14	1.00	0
66.0	-12.94	-34.80	-14	1.06	0
66.1	-12.87	-34.73	-14	1.13	0
66.2	-12.79	-34.65	-14	1.21	0
66.3	-12.71	-34.57	-14	1.29	0
66.4	-12.62	-34.48	-14	1.38	0
66.5	-12.53	-34.39	-14	1.47	0
66.6	-12.44	-34.29	-14	1.56	0
66.7	-12.34	-34.20	-14	1.66	0
66.8	-12.25	-34.10	-14	1.75	0
66.9	-12.15	-34.01	-14	1.85	0
67.0	-12.06	-33.91	-14	1.94	0
67.1	-11.96	-33.82	-14	2.04	0
67.2	-11.87	-33.73	-14	2.13	0
67.3	-11.79	-33.64	-14	2.22	0
67.4	-11.70	-33.56	-14	2.30	0
67.5	-11.62	-33.48	-14	2.38	0
67.6	-11.55	-33.41	-14	2.45	0
67.7	-11.48	-33.34	-14	2.52	0
67.8	-11.42	-33.27	-14	2.58	0
67.9	-11.36	-33.22	-14	2.64	0
68.0	-11.31	-33.16	-14	2.69	0
68.1	-11.26	-33.12	-14	2.74	0
68.2	-11.22	-33.08	-14	2.78	0
68.3	-11.19	-33.04	-14	2.81	0
68.4	-11.16	-33.02	-14	2.84	0
68.5	-11.14	-32.99	-14	2.86	0
68.6	-11.12	-32.98	-14	2.88	0
68.7	-11.11	-32.97	-14	2.89	0
68.8	-11.11	-32.96	-14	2.89	0
68.9	-11.11	-32.96	-14	2.89	0
69.0	-11.11	-32.97	-14	2.89	0
69.1	-11.13	-32.98	-14	2.87	0

69.2	-11.14	-33.00	-14	2.86	0
69.3	-11.16	-33.02	-14	2.84	0
69.4	-11.19	-33.05	-14	2.81	0
69.5	-11.22	-33.08	-14	2.78	0
69.6	-11.25	-33.11	-14	2.75	0
69.7	-11.29	-33.15	-14	2.71	0
69.8	-11.33	-33.19	-14	2.67	0
69.9	-11.38	-33.23	-14	2.62	0
70.0	-11.43	-33.28	-14	2.57	0
70.1	-11.48	-33.33	-14	2.52	0
70.2	-11.53	-33.39	-14	2.47	0
70.3	-11.59	-33.45	-14	2.41	0
70.4	-11.65	-33.50	-14	2.35	0
70.5	-11.71	-33.57	-14	2.29	0
70.6	-11.77	-33.63	-14	2.23	0
70.7	-11.84	-33.70	-14	2.16	0
70.8	-11.91	-33.76	-14	2.09	0
70.9	-11.98	-33.83	-14	2.02	0
71.0	-12.05	-33.90	-14	1.95	0
71.1	-12.12	-33.97	-14	1.88	0
71.2	-12.19	-34.05	-14	1.81	0
71.3	-12.26	-34.12	-14	1.74	0
71.4	-12.33	-34.19	-14	1.67	0
71.5	-12.41	-34.26	-14	1.59	0
71.6	-12.48	-34.34	-14	1.52	0
71.7	-12.55	-34.41	-14	1.45	0
71.8	-12.62	-34.48	-14	1.38	0
71.9	-12.69	-34.55	-14	1.31	0
72.0	-12.76	-34.62	-14	1.24	0
72.1	-12.83	-34.68	-14	1.17	0
72.2	-12.89	-34.75	-14	1.11	0
72.3	-12.95	-34.81	-14	1.05	0
72.4	-13.01	-34.87	-14	0.99	0
72.5	-13.06	-34.92	-14	0.94	0
72.6	-13.11	-34.97	-14	0.89	0
72.7	-13.16	-35.02	-14	0.84	0
72.8	-13.20	-35.06	-14	0.80	0
72.9	-13.24	-35.09	-14	0.76	0
73.0	-13.27	-35.12	-14	0.73	0
73.1	-13.29	-35.15	-14	0.71	0
73.2	-13.31	-35.17	-14	0.69	0
73.3	-13.32	-35.18	-14	0.68	0
73.4	-13.33	-35.18	-14	0.67	0
73.5	-13.32	-35.18	-14	0.68	0
73.6	-13.31	-35.17	-14	0.69	0
73.7	-13.30	-35.15	-14	0.70	0
73.8	-13.27	-35.13	-14	0.73	0
73.9	-13.24	-35.09	-14	0.76	0
74.0	-13.20	-35.05	-14	0.80	0
74.1	-13.15	-35.00	-14	0.85	0

74.2	-13.09	-34.95	-14	0.91	0
74.3	-13.03	-34.88	-14	0.97	0
74.4	-12.96	-34.81	-14	1.04	0
74.5	-12.88	-34.74	-14	1.12	0
74.6	-12.80	-34.65	-14	1.20	0
74.7	-12.71	-34.56	-14	1.29	0
74.8	-12.61	-34.47	-14	1.39	0
74.9	-12.51	-34.37	-14	1.49	0
75.0	-12.41	-34.26	-14	1.59	0
75.1	-12.30	-34.15	-14	1.70	0
75.2	-12.18	-34.04	-14	1.82	0
75.3	-12.07	-33.92	-14	1.93	0
75.4	-11.95	-33.80	-14	2.05	0
75.5	-11.83	-33.68	-14	2.17	0
75.6	-11.70	-33.56	-14	2.30	0
75.7	-11.58	-33.44	-14	2.42	0
75.8	-11.46	-33.31	-14	2.54	0
75.9	-11.33	-33.19	-14	2.67	0
76.0	-11.21	-33.06	-14	2.79	0
76.1	-11.08	-32.94	-14	2.92	0
76.2	-10.96	-32.82	-14	3.04	0
76.3	-10.84	-32.70	-14	3.16	0
76.4	-10.72	-32.58	-14	3.28	0
76.5	-10.60	-32.46	-14	3.40	0
76.6	-10.49	-32.35	-14	3.51	0
76.7	-10.38	-32.23	-14	3.62	0
76.8	-10.27	-32.13	-14	3.73	0
76.9	-10.17	-32.02	-14	3.83	0
77.0	-10.07	-31.92	-14	3.93	0
77.1	-9.97	-31.83	-14	4.03	0
77.2	-9.88	-31.73	-14	4.12	0
77.3	-9.79	-31.64	-14	4.21	0
77.4	-9.70	-31.56	-14	4.30	0
77.5	-9.62	-31.48	-14	4.38	0
77.6	-9.55	-31.41	-14	4.45	0
77.7	-9.48	-31.34	-14	4.52	0
77.8	-9.41	-31.27	-14	4.59	0
77.9	-9.35	-31.21	-14	4.65	0
78.0	-9.30	-31.15	-14	4.70	0
78.1	-9.25	-31.10	-14	4.75	0
78.2	-9.20	-31.06	-14	4.80	0
78.3	-9.16	-31.01	-14	4.84	0
78.4	-9.12	-30.98	-14	4.88	0
78.5	-9.09	-30.94	-14	4.91	0
78.6	-9.06	-30.92	-14	4.94	0
78.7	-9.04	-30.89	-14	4.96	0
78.8	-9.02	-30.87	-14	4.98	0
78.9	-9.00	-30.86	-14	5.00	0
79.0	-8.99	-30.84	-14	5.01	0
79.1	-8.98	-30.84	-14	5.02	0

79.2	-8.97	-30.83	-14	5.03	0
79.3	-8.97	-30.83	-14	5.03	0
79.4	-8.98	-30.83	-14	5.02	0
79.5	-8.98	-30.84	-14	5.02	0
79.6	-8.99	-30.84	-14	5.01	0
79.7	-9.00	-30.85	-14	5.00	0
79.8	-9.01	-30.87	-14	4.99	0
79.9	-9.02	-30.88	-14	4.98	0
80.0	-9.04	-30.90	-14	4.96	0
80.1	-9.06	-30.91	-14	4.94	0
80.2	-9.08	-30.93	-14	4.92	0
80.3	-9.10	-30.95	-14	4.90	0
80.4	-9.12	-30.98	-14	4.88	0
80.5	-9.14	-31.00	-14	4.86	0
80.6	-9.16	-31.02	-14	4.84	0
80.7	-9.19	-31.04	-14	4.81	0
80.8	-9.21	-31.06	-14	4.79	0
80.9	-9.23	-31.09	-14	4.77	0
81.0	-9.25	-31.11	-14	4.75	0
81.1	-9.27	-31.13	-14	4.73	0
81.2	-9.30	-31.15	-14	4.70	0
81.3	-9.32	-31.17	-14	4.68	0
81.4	-9.34	-31.19	-14	4.66	0
81.5	-9.36	-31.21	-14	4.64	0
81.6	-9.38	-31.23	-14	4.62	0
81.7	-9.40	-31.25	-14	4.60	0
81.8	-9.42	-31.27	-14	4.58	0
81.9	-9.43	-31.29	-14	4.57	0
82.0	-9.45	-31.31	-14	4.55	0
82.1	-9.47	-31.32	-14	4.53	0
82.2	-9.49	-31.34	-14	4.51	0
82.3	-9.50	-31.36	-14	4.50	0
82.4	-9.52	-31.38	-14	4.48	0
82.5	-9.54	-31.40	-14	4.46	0
82.6	-9.56	-31.42	-14	4.44	0
82.7	-9.58	-31.44	-14	4.42	0
82.8	-9.60	-31.46	-14	4.40	0
82.9	-9.62	-31.48	-14	4.38	0
83.0	-9.65	-31.50	-14	4.35	0
83.1	-9.67	-31.53	-14	4.33	0
83.2	-9.70	-31.55	-14	4.30	0
83.3	-9.73	-31.58	-14	4.27	0
83.4	-9.76	-31.61	-14	4.24	0
83.5	-9.79	-31.65	-14	4.21	0
83.6	-9.83	-31.68	-14	4.17	0
83.7	-9.87	-31.72	-14	4.13	0
83.8	-9.91	-31.76	-14	4.09	0
83.9	-9.95	-31.81	-14	4.05	0
84.0	-10.00	-31.86	-14	4.00	0
84.1	-10.05	-31.91	-14	3.95	0

84.2	-10.11	-31.96	-14	3.89	0
84.3	-10.16	-32.02	-14	3.84	0
84.4	-10.23	-32.08	-14	3.77	0
84.5	-10.29	-32.15	-14	3.71	0
84.6	-10.36	-32.21	-14	3.64	0
84.7	-10.43	-32.29	-14	3.57	0
84.8	-10.51	-32.36	-14	3.49	0
84.9	-10.58	-32.44	-14	3.42	0
85.0	-10.67	-32.52	-14	3.33	0
85.1	-10.75	-32.61	-14	3.25	0
85.2	-10.84	-32.69	-14	3.16	0
85.3	-10.93	-32.79	-14	3.07	0
85.4	-11.02	-32.88	-14	2.98	0
85.5	-11.12	-32.97	-14	2.88	0
85.6	-11.22	-33.07	-14	2.78	0
85.7	-11.32	-33.17	-14	2.68	0
85.8	-11.42	-33.27	-14	2.58	0
85.9	-11.52	-33.38	-14	2.48	0
86.0	-11.62	-33.48	-14	2.38	0
86.1	-11.73	-33.58	-14	2.27	0
86.2	-11.83	-33.69	-14	2.17	0
86.3	-11.94	-33.79	-14	2.06	0
86.4	-12.04	-33.90	-14	1.96	0
86.5	-12.14	-34.00	-14	1.86	0
86.6	-12.24	-34.10	-14	1.76	0
86.7	-12.34	-34.19	-14	1.66	0
86.8	-12.43	-34.29	-14	1.57	0
86.9	-12.53	-34.38	-14	1.47	0
87.0	-12.61	-34.47	-14	1.39	0
87.1	-12.70	-34.55	-14	1.30	0
87.2	-12.78	-34.63	-14	1.22	0
87.3	-12.85	-34.71	-14	1.15	0
87.4	-12.92	-34.78	-14	1.08	0
87.5	-12.99	-34.85	-14	1.01	0
87.6	-13.05	-34.91	-14	0.95	0
87.7	-13.11	-34.96	-14	0.89	0
87.8	-13.16	-35.01	-14	0.84	0
87.9	-13.20	-35.06	-14	0.80	0
88.0	-13.24	-35.10	-14	0.76	0
88.1	-13.28	-35.13	-14	0.72	0
88.2	-13.31	-35.17	-14	0.69	0
88.3	-13.34	-35.19	-14	0.66	0
88.4	-13.36	-35.22	-14	0.64	0
88.5	-13.39	-35.24	-14	0.61	0
88.6	-13.40	-35.26	-14	0.60	0
88.7	-13.42	-35.28	-14	0.58	0
88.8	-13.44	-35.30	-14	0.56	0
88.9	-13.45	-35.31	-14	0.55	0
89.0	-13.47	-35.33	-14	0.53	0
89.1	-13.49	-35.34	-14	0.51	0

89.2	-13.50	-35.36	-14	0.50	0
89.3	-13.52	-35.38	-14	0.48	0
89.4	-13.54	-35.40	-14	0.46	0
89.5	-13.57	-35.42	-14	0.43	0
89.6	-13.60	-35.45	-14	0.40	0
89.7	-13.63	-35.48	-14	0.37	0
89.8	-13.66	-35.52	-14	0.34	0
89.9	-13.70	-35.56	-14	0.30	0
90.0	-13.74	-35.60	-14	0.26	0
90.1	-13.79	-35.65	-14	0.21	0
90.2	-13.85	-35.70	-14	0.15	0
90.3	-13.91	-35.76	-14	0.09	0
90.4	-13.97	-35.83	-14	0.03	0
90.5	-14.04	-35.90	-14	-0.04	0
90.6	-14.12	-35.98	-14	-0.12	0
90.7	-14.20	-36.06	-14	-0.20	0
90.8	-14.29	-36.15	-14	-0.29	0
90.9	-14.39	-36.25	-14	-0.39	0
91.0	-14.49	-36.35	-14	-0.49	0
91.1	-14.60	-36.46	-14	-0.60	0
91.2	-14.71	-36.57	-14	-0.71	0
91.3	-14.83	-36.69	-14	-0.83	0
91.4	-14.95	-36.81	-14	-0.95	0
91.5	-15.08	-36.94	-14	-1.08	0
91.6	-15.21	-37.07	-14	-1.21	0
91.7	-15.35	-37.21	-14	-1.35	0
91.8	-15.49	-37.34	-14	-1.49	0
91.9	-15.63	-37.48	-14	-1.63	0
92.0	-15.77	-37.62	-14	-1.77	0
92.1	-15.91	-37.77	-14	-1.91	0
92.2	-16.05	-37.91	-14	-2.05	0
92.3	-16.19	-38.04	-14	-2.19	0
92.4	-16.32	-38.18	-14	-2.32	0
92.5	-16.45	-38.31	-14	-2.45	0
92.6	-16.57	-38.43	-14	-2.57	0
92.7	-16.69	-38.55	-14	-2.69	0
92.8	-16.80	-38.65	-14	-2.80	0
92.9	-16.90	-38.75	-14	-2.90	0
93.0	-16.99	-38.84	-14	-2.99	0
93.1	-17.06	-38.92	-14	-3.06	0
93.2	-17.13	-38.99	-14	-3.13	0
93.3	-17.18	-39.04	-14	-3.18	0
93.4	-17.23	-39.08	-14	-3.23	0
93.5	-17.26	-39.11	-14	-3.26	0
93.6	-17.27	-39.13	-14	-3.27	0
93.7	-17.28	-39.14	-14	-3.28	0
93.8	-17.28	-39.14	-14	-3.28	0
93.9	-17.27	-39.13	-14	-3.27	0
94.0	-17.25	-39.11	-14	-3.25	0
94.1	-17.23	-39.08	-14	-3.23	0

94.2	-17.20	-39.05	-14	-3.20	0
94.3	-17.16	-39.02	-14	-3.16	0
94.4	-17.13	-38.99	-14	-3.13	0
94.5	-17.10	-38.95	-14	-3.10	0
94.6	-17.06	-38.92	-14	-3.06	0
94.7	-17.03	-38.88	-14	-3.03	0
94.8	-17.00	-38.86	-14	-3.00	0
94.9	-16.98	-38.83	-14	-2.98	0
95.0	-16.96	-38.81	-14	-2.96	0
95.1	-16.94	-38.80	-14	-2.94	0
95.2	-16.94	-38.80	-14	-2.94	0
95.3	-16.94	-38.80	-14	-2.94	0
95.4	-16.95	-38.81	-14	-2.95	0
95.5	-16.98	-38.83	-14	-2.98	0
95.6	-17.01	-38.87	-14	-3.01	0
95.7	-17.05	-38.91	-14	-3.05	0
95.8	-17.11	-38.96	-14	-3.11	0
95.9	-17.17	-39.03	-14	-3.17	0
96.0	-17.25	-39.10	-14	-3.25	0
96.1	-17.34	-39.19	-14	-3.34	0
96.2	-17.44	-39.30	-14	-3.44	0
96.3	-17.55	-39.41	-14	-3.55	0
96.4	-17.68	-39.54	-14	-3.68	0
96.5	-17.82	-39.67	-14	-3.82	0
96.6	-17.97	-39.82	-14	-3.97	0
96.7	-18.13	-39.99	-14	-4.13	0
96.8	-18.30	-40.16	-14	-4.30	0
96.9	-18.49	-40.34	-14	-4.49	0
97.0	-18.68	-40.54	-14	-4.68	0
97.1	-18.88	-40.74	-14	-4.88	0
97.2	-19.09	-40.95	-14	-5.09	0
97.3	-19.30	-41.16	-14	-5.30	0
97.4	-19.52	-41.38	-14	-5.52	0
97.5	-19.74	-41.60	-14	-5.74	0
97.6	-19.96	-41.82	-14	-5.96	0
97.7	-20.18	-42.03	-14	-6.18	0
97.8	-20.38	-42.24	-14	-6.38	0
97.9	-20.58	-42.43	-14	-6.58	0
98.0	-20.76	-42.62	-14	-6.76	0
98.1	-20.92	-42.78	-14	-6.92	0
98.2	-21.06	-42.92	-14	-7.06	0
98.3	-21.18	-43.04	-14	-7.18	0
98.4	-21.27	-43.13	-14	-7.27	0
98.5	-21.33	-43.19	-14	-7.33	0
98.6	-21.37	-43.22	-14	-7.37	0
98.7	-21.37	-43.23	-14	-7.37	0
98.8	-21.35	-43.21	-14	-7.35	0
98.9	-21.31	-43.17	-14	-7.31	0
99.0	-21.25	-43.10	-14	-7.25	0
99.1	-21.16	-43.02	-14	-7.16	0

99.2	-21.07	-42.93	-14	-7.07	0
99.3	-20.96	-42.82	-14	-6.96	0
99.4	-20.85	-42.71	-14	-6.85	0
99.5	-20.74	-42.60	-14	-6.74	0
99.6	-20.63	-42.49	-14	-6.63	0
99.7	-20.53	-42.38	-14	-6.53	0
99.8	-20.43	-42.28	-14	-6.43	0
99.9	-20.34	-42.19	-14	-6.34	0
100.0	-20.26	-42.12	-14	-6.26	0
100.1	-20.19	-42.05	-14	-6.19	0
100.2	-20.14	-42.00	-14	-6.14	0
100.3	-20.11	-41.96	-14	-6.11	0
100.4	-20.09	-41.95	-14	-6.09	0
100.5	-20.09	-41.95	-14	-6.09	0
100.6	-20.11	-41.96	-14	-6.11	0
100.7	-20.15	-42.00	-14	-6.15	0
100.8	-20.21	-42.06	-14	-6.21	0
100.9	-20.28	-42.14	-14	-6.28	0
101.0	-20.38	-42.24	-14	-6.38	0
101.1	-20.51	-42.36	-14	-6.51	0
101.2	-20.65	-42.51	-14	-6.65	0
101.3	-20.82	-42.67	-14	-6.82	0
101.4	-21.00	-42.86	-14	-7.00	0
101.5	-21.21	-43.07	-14	-7.21	0
101.6	-21.45	-43.30	-14	-7.45	0
101.7	-21.70	-43.55	-14	-7.70	0
101.8	-21.97	-43.83	-14	-7.97	0
101.9	-22.26	-44.12	-14	-8.26	0
102.0	-22.57	-44.42	-14	-8.57	0
102.1	-22.88	-44.74	-14	-8.88	0
102.2	-23.21	-45.06	-14	-9.21	0
102.3	-23.54	-45.39	-14	-9.54	0
102.4	-23.86	-45.71	-14	-9.86	0
102.5	-24.17	-46.02	-14	-10.17	0
102.6	-24.45	-46.31	-14	-10.45	0
102.7	-24.70	-46.55	-14	-10.70	0
102.8	-24.90	-46.76	-14	-10.90	0
102.9	-25.04	-46.90	-14	-11.04	0
103.0	-25.12	-46.98	-14	-11.12	0
103.1	-25.13	-46.99	-14	-11.13	0
103.2	-25.07	-46.93	-14	-11.07	0
103.3	-24.95	-46.81	-14	-10.95	0
103.4	-24.77	-46.63	-14	-10.77	0
103.5	-24.55	-46.41	-14	-10.55	0
103.6	-24.30	-46.15	-14	-10.30	0
103.7	-24.02	-45.87	-14	-10.02	0
103.8	-23.73	-45.59	-14	-9.73	0
103.9	-23.44	-45.29	-14	-9.44	0
104.0	-23.15	-45.01	-14	-9.15	0
104.1	-22.88	-44.73	-14	-8.88	0

104.2	-22.61	-44.47	-14	-8.61	0
104.3	-22.37	-44.23	-14	-8.37	0
104.4	-22.15	-44.01	-14	-8.15	0
104.5	-21.95	-43.81	-14	-7.95	0
104.6	-21.78	-43.63	-14	-7.78	0
104.7	-21.63	-43.48	-14	-7.63	0
104.8	-21.50	-43.36	-14	-7.50	0
104.9	-21.41	-43.26	-14	-7.41	0
105.0	-21.34	-43.19	-14	-7.34	0
105.1	-21.30	-43.15	-14	-7.30	0
105.2	-21.28	-43.14	-14	-7.28	0
105.3	-21.29	-43.15	-14	-7.29	0
105.4	-21.33	-43.19	-14	-7.33	0
105.5	-21.40	-43.25	-14	-7.40	0
105.6	-21.49	-43.35	-14	-7.49	0
105.7	-21.61	-43.47	-14	-7.61	0
105.8	-21.76	-43.61	-14	-7.76	0
105.9	-21.93	-43.79	-14	-7.93	0
106.0	-22.13	-43.98	-14	-8.13	0
106.1	-22.35	-44.20	-14	-8.35	0
106.2	-22.59	-44.44	-14	-8.59	0
106.3	-22.85	-44.70	-14	-8.85	0
106.4	-23.12	-44.98	-14	-9.12	0
106.5	-23.41	-45.26	-14	-9.41	0
106.6	-23.69	-45.55	-14	-9.69	0
106.7	-23.98	-45.83	-14	-9.98	0
106.8	-24.25	-46.10	-14	-10.25	0
106.9	-24.49	-46.35	-14	-10.49	0
107.0	-24.70	-46.56	-14	-10.70	0
107.1	-24.87	-46.72	-14	-10.87	0
107.2	-24.97	-46.83	-14	-10.97	0
107.3	-25.01	-46.87	-14	-11.01	0
107.4	-24.98	-46.84	-14	-10.98	0
107.5	-24.89	-46.75	-14	-10.89	0
107.6	-24.74	-46.59	-14	-10.74	0
107.7	-24.53	-46.38	-14	-10.53	0
107.8	-24.28	-46.14	-14	-10.28	0
107.9	-24.01	-45.86	-14	-10.01	0
108.0	-23.71	-45.57	-14	-9.71	0
108.1	-23.41	-45.27	-14	-9.41	0
108.2	-23.12	-44.97	-14	-9.12	0
108.3	-22.83	-44.68	-14	-8.83	0
108.4	-22.55	-44.41	-14	-8.55	0
108.5	-22.30	-44.15	-14	-8.30	0
108.6	-22.06	-43.92	-14	-8.06	0
108.7	-21.85	-43.71	-14	-7.85	0
108.8	-21.67	-43.53	-14	-7.67	0
108.9	-21.52	-43.38	-14	-7.52	0
109.0	-21.40	-43.25	-14	-7.40	0
109.1	-21.30	-43.16	-14	-7.30	0

109.2	-21.24	-43.10	-14	-7.24	0
109.3	-21.21	-43.07	-14	-7.21	0
109.4	-21.22	-43.07	-14	-7.22	0
109.5	-21.25	-43.11	-14	-7.25	0
109.6	-21.32	-43.18	-14	-7.32	0
109.7	-21.43	-43.29	-14	-7.43	0
109.8	-21.57	-43.43	-14	-7.57	0
109.9	-21.76	-43.61	-14	-7.76	0
110.0	-21.97	-43.83	-14	-7.97	0
110.1	-22.23	-44.09	-14	-8.23	0
110.2	-22.53	-44.39	-14	-8.53	0
110.3	-22.87	-44.73	-14	-8.87	0
110.4	-23.26	-45.11	-14	-9.26	0
110.5	-23.68	-45.54	-14	-9.68	0
110.6	-24.15	-46.01	-14	-10.15	0
110.7	-24.66	-46.52	-14	-10.66	0
110.8	-25.21	-47.07	-14	-11.21	0
110.9	-25.79	-47.65	-14	-11.79	0
111.0	-26.39	-48.25	-14	-12.39	0
111.1	-26.99	-48.85	-14	-12.99	0
111.2	-27.56	-49.42	-14	-13.56	0
111.3	-28.07	-49.92	-14	-14.07	0
111.4	-28.46	-50.32	-14	-14.46	0
111.5	-28.70	-50.56	-14	-14.70	0
111.6	-28.76	-50.62	-14	-14.76	0
111.7	-28.63	-50.49	-14	-14.63	0
111.8	-28.34	-50.20	-14	-14.34	0
111.9	-27.93	-49.79	-14	-13.93	0
112.0	-27.45	-49.31	-14	-13.45	0
112.1	-26.93	-48.79	-14	-12.93	0
112.2	-26.41	-48.27	-14	-12.41	0
112.3	-25.91	-47.77	-14	-11.91	0
112.4	-25.45	-47.30	-14	-11.45	0
112.5	-25.02	-46.88	-14	-11.02	0
112.6	-24.64	-46.50	-14	-10.64	0
112.7	-24.31	-46.17	-14	-10.31	0
112.8	-24.03	-45.89	-14	-10.03	0
112.9	-23.80	-45.66	-14	-9.80	0
113.0	-23.63	-45.49	-14	-9.63	0
113.1	-23.51	-45.36	-14	-9.51	0
113.2	-23.43	-45.29	-14	-9.43	0
113.3	-23.42	-45.27	-14	-9.42	0
113.4	-23.45	-45.31	-14	-9.45	0
113.5	-23.54	-45.39	-14	-9.54	0
113.6	-23.68	-45.54	-14	-9.68	0
113.7	-23.88	-45.73	-14	-9.88	0
113.8	-24.13	-45.99	-14	-10.13	0
113.9	-24.45	-46.31	-14	-10.45	0
114.0	-24.83	-46.68	-14	-10.83	0
114.1	-25.26	-47.12	-14	-11.26	0

114.2	-25.76	-47.62	-14	-11.76	0
114.3	-26.32	-48.17	-14	-12.32	0
114.4	-26.93	-48.78	-14	-12.93	0
114.5	-27.58	-49.43	-14	-13.58	0
114.6	-28.24	-50.09	-14	-14.24	0
114.7	-28.86	-50.72	-14	-14.86	0
114.8	-29.40	-51.25	-14	-15.40	0
114.9	-29.76	-51.61	-14	-15.76	0
115.0	-29.87	-51.73	-14	-15.87	0
115.1	-29.71	-51.57	-14	-15.71	0
115.2	-29.30	-51.16	-14	-15.30	0
115.3	-28.71	-50.57	-14	-14.71	0
115.4	-28.02	-49.87	-14	-14.02	0
115.5	-27.29	-49.14	-14	-13.29	0
115.6	-26.56	-48.42	-14	-12.56	0
115.7	-25.87	-47.73	-14	-11.87	0
115.8	-25.23	-47.09	-14	-11.23	0
115.9	-24.66	-46.51	-14	-10.66	0
116.0	-24.14	-46.00	-14	-10.14	0
116.1	-23.69	-45.55	-14	-9.69	0
116.2	-23.30	-45.16	-14	-9.30	0
116.3	-22.97	-44.83	-14	-8.97	0
116.4	-22.70	-44.56	-14	-8.70	0
116.5	-22.49	-44.35	-14	-8.49	0
116.6	-22.34	-44.19	-14	-8.34	0
116.7	-22.24	-44.09	-14	-8.24	0
116.8	-22.20	-44.05	-14	-8.20	0
116.9	-22.21	-44.07	-14	-8.21	0
117.0	-22.28	-44.14	-14	-8.28	0
117.1	-22.41	-44.27	-14	-8.41	0
117.2	-22.60	-44.45	-14	-8.60	0
117.3	-22.84	-44.70	-14	-8.84	0
117.4	-23.15	-45.01	-14	-9.15	0
117.5	-23.52	-45.38	-14	-9.52	0
117.6	-23.96	-45.82	-14	-9.96	0
117.7	-24.46	-46.32	-14	-10.46	0
117.8	-25.03	-46.89	-14	-11.03	0
117.9	-25.67	-47.53	-14	-11.67	0
118.0	-26.38	-48.23	-14	-12.38	0
118.1	-27.13	-48.99	-14	-13.13	0
118.2	-27.92	-49.78	-14	-13.92	0
118.3	-28.70	-50.55	-14	-14.70	0
118.4	-29.40	-51.26	-14	-15.40	0
118.5	-29.95	-51.81	-14	-15.95	0
118.6	-30.26	-52.12	-14	-16.26	0
118.7	-30.28	-52.13	-14	-16.28	0
118.8	-30.01	-51.86	-14	-16.01	0
118.9	-29.53	-51.38	-14	-15.53	0
119.0	-28.93	-50.78	-14	-14.93	0
119.1	-28.28	-50.14	-14	-14.28	0

119.2	-27.65	-49.51	-14	-13.65	0
119.3	-27.06	-48.92	-14	-13.06	0
119.4	-26.54	-48.39	-14	-12.54	0
119.5	-26.08	-47.94	-14	-12.08	0
119.6	-25.70	-47.55	-14	-11.70	0
119.7	-25.39	-47.25	-14	-11.39	0
119.8	-25.16	-47.01	-14	-11.16	0
119.9	-24.99	-46.85	-14	-10.99	0
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120.1	-24.88	-46.74	-14	-10.88	0
120.2	-24.93	-46.79	-14	-10.93	0
120.3	-25.05	-46.90	-14	-11.05	0
120.4	-25.23	-47.08	-14	-11.23	0
120.5	-25.47	-47.33	-14	-11.47	0
120.6	-25.77	-47.63	-14	-11.77	0
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120.9	-27.01	-48.86	-14	-13.01	0
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121.1	-27.97	-49.83	-14	-13.97	0
121.2	-28.43	-50.28	-14	-14.43	0
121.3	-28.82	-50.67	-14	-14.82	0
121.4	-29.10	-50.96	-14	-15.10	0
121.5	-29.25	-51.11	-14	-15.25	0
121.6	-29.24	-51.10	-14	-15.24	0
121.7	-29.08	-50.94	-14	-15.08	0
121.8	-28.80	-50.66	-14	-14.80	0
121.9	-28.44	-50.29	-14	-14.44	0
122.0	-28.03	-49.88	-14	-14.03	0
122.1	-27.61	-49.46	-14	-13.61	0
122.2	-27.20	-49.06	-14	-13.20	0
122.3	-26.83	-48.68	-14	-12.83	0
122.4	-26.50	-48.35	-14	-12.50	0
122.5	-26.21	-48.07	-14	-12.21	0
122.6	-25.98	-47.84	-14	-11.98	0
122.7	-25.80	-47.66	-14	-11.80	0
122.8	-25.68	-47.54	-14	-11.68	0
122.9	-25.60	-47.46	-14	-11.60	0
123.0	-25.57	-47.43	-14	-11.57	0
123.1	-25.58	-47.44	-14	-11.58	0
123.2	-25.63	-47.49	-14	-11.63	0
123.3	-25.71	-47.56	-14	-11.71	0
123.4	-25.80	-47.66	-14	-11.80	0
123.5	-25.91	-47.77	-14	-11.91	0
123.6	-26.02	-47.88	-14	-12.02	0
123.7	-26.12	-47.97	-14	-12.12	0
123.8	-26.20	-48.05	-14	-12.20	0
123.9	-26.25	-48.10	-14	-12.25	0
124.0	-26.27	-48.12	-14	-12.27	0
124.1	-26.26	-48.11	-14	-12.26	0

124.2	-26.21	-48.07	-14	-12.21	0
124.3	-26.15	-48.01	-14	-12.15	0
124.4	-26.07	-47.93	-14	-12.07	0
124.5	-25.99	-47.85	-14	-11.99	0
124.6	-25.92	-47.78	-14	-11.92	0
124.7	-25.87	-47.73	-14	-11.87	0
124.8	-25.86	-47.71	-14	-11.86	0
124.9	-25.88	-47.74	-14	-11.88	0
125.0	-25.96	-47.82	-14	-11.96	0
125.1	-26.10	-47.95	-14	-12.10	0
125.2	-26.31	-48.16	-14	-12.31	0
125.3	-26.59	-48.45	-14	-12.59	0
125.4	-26.96	-48.81	-14	-12.96	0
125.5	-27.41	-49.27	-14	-13.41	0
125.6	-27.97	-49.82	-14	-13.97	0
125.7	-28.62	-50.48	-14	-14.62	0
125.8	-29.36	-51.22	-14	-15.36	0
125.9	-30.17	-52.03	-14	-16.17	0
126.0	-30.99	-52.85	-14	-16.99	0
126.1	-31.73	-53.59	-14	-17.73	0
126.2	-32.22	-54.07	-14	-18.22	0
126.3	-32.30	-54.16	-14	-18.30	0
126.4	-31.92	-53.78	-14	-17.92	0
126.5	-31.18	-53.04	-14	-17.18	0
126.6	-30.24	-52.10	-14	-16.24	0
126.7	-29.25	-51.10	-14	-15.25	0
126.8	-28.29	-50.15	-14	-14.29	0
126.9	-27.42	-49.28	-14	-13.42	0
127.0	-26.65	-48.50	-14	-12.65	0
127.1	-25.98	-47.84	-14	-11.98	0
127.2	-25.43	-47.28	-14	-11.43	0
127.3	-24.97	-46.83	-14	-10.97	0
127.4	-24.62	-46.47	-14	-10.62	0
127.5	-24.36	-46.22	-14	-10.36	0
127.6	-24.20	-46.06	-14	-10.20	0
127.7	-24.14	-46.00	-14	-10.14	0
127.8	-24.17	-46.03	-14	-10.17	0
127.9	-24.30	-46.16	-14	-10.30	0
128.0	-24.53	-46.39	-14	-10.53	0
128.1	-24.86	-46.72	-14	-10.86	0
128.2	-25.30	-47.15	-14	-11.30	0
128.3	-25.84	-47.70	-14	-11.84	0
128.4	-26.51	-48.36	-14	-12.51	0
128.5	-27.29	-49.14	-14	-13.29	0
128.6	-28.18	-50.04	-14	-14.18	0
128.7	-29.16	-51.01	-14	-15.16	0
128.8	-30.16	-52.02	-14	-16.16	0
128.9	-31.07	-52.93	-14	-17.07	0
129.0	-31.70	-53.55	-14	-17.70	0
129.1	-31.85	-53.70	-14	-17.85	0

129.2	-31.49	-53.34	-14	-17.49	0
129.3	-30.75	-52.61	-14	-16.75	0
129.4	-29.85	-51.70	-14	-15.85	0
129.5	-28.93	-50.78	-14	-14.93	0
129.6	-28.08	-49.93	-14	-14.08	0
129.7	-27.33	-49.19	-14	-13.33	0
129.8	-26.70	-48.56	-14	-12.70	0
129.9	-26.20	-48.05	-14	-12.20	0
130.0	-25.81	-47.66	-14	-11.81	0
130.1	-25.53	-47.39	-14	-11.53	0
130.2	-25.36	-47.22	-14	-11.36	0
130.3	-25.30	-47.15	-14	-11.30	0
130.4	-25.33	-47.19	-14	-11.33	0
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130.6	-25.68	-47.53	-14	-11.68	0
130.7	-25.98	-47.83	-14	-11.98	0
130.8	-26.36	-48.21	-14	-12.36	0
130.9	-26.80	-48.65	-14	-12.80	0
131.0	-27.28	-49.14	-14	-13.28	0
131.1	-27.78	-49.64	-14	-13.78	0
131.2	-28.26	-50.12	-14	-14.26	0
131.3	-28.68	-50.54	-14	-14.68	0
131.4	-29.00	-50.86	-14	-15.00	0
131.5	-29.18	-51.04	-14	-15.18	0
131.6	-29.23	-51.08	-14	-15.23	0
131.7	-29.15	-51.01	-14	-15.15	0
131.8	-28.99	-50.85	-14	-14.99	0
131.9	-28.80	-50.65	-14	-14.80	0
132.0	-28.61	-50.47	-14	-14.61	0
132.1	-28.47	-50.33	-14	-14.47	0
132.2	-28.40	-50.26	-14	-14.40	0
132.3	-28.42	-50.27	-14	-14.42	0
132.4	-28.53	-50.38	-14	-14.53	0
132.5	-28.74	-50.60	-14	-14.74	0
132.6	-29.06	-50.91	-14	-15.06	0
132.7	-29.46	-51.31	-14	-15.46	0
132.8	-29.90	-51.76	-14	-15.90	0
132.9	-30.33	-52.19	-14	-16.33	0
133.0	-30.64	-52.50	-14	-16.64	0
133.1	-30.73	-52.59	-14	-16.73	0
133.2	-30.50	-52.36	-14	-16.50	0
133.3	-29.95	-51.81	-14	-15.95	0
133.4	-29.17	-51.02	-14	-15.17	0
133.5	-28.26	-50.12	-14	-14.26	0
133.6	-27.34	-49.19	-14	-13.34	0
133.7	-26.46	-48.31	-14	-12.46	0
133.8	-25.66	-47.52	-14	-11.66	0
133.9	-24.97	-46.82	-14	-10.97	0
134.0	-24.38	-46.24	-14	-10.38	0
134.1	-23.91	-45.77	-14	-9.91	0

134.2	-23.56	-45.42	-14	-9.56	0
134.3	-23.33	-45.19	-14	-9.33	0
134.4	-23.22	-45.07	-14	-9.22	0
134.5	-23.23	-45.08	-14	-9.23	0
134.6	-23.37	-45.23	-14	-9.37	0
134.7	-23.66	-45.52	-14	-9.66	0
134.8	-24.10	-45.96	-14	-10.10	0
134.9	-24.72	-46.58	-14	-10.72	0
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135.3	-30.00	-51.86	-14	-16.00	0
135.4	-32.70	-54.56	-14	-18.70	0
135.5	-36.93	-58.79	-14	-22.93	0
135.6	-46.04	-67.90	-14	-32.04	0
135.7	-47.00	-68.86	-14	-33.00	0
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135.9	-32.70	-54.55	-14	-18.70	0
136.0	-29.86	-51.71	-14	-15.86	0
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136.6	-23.01	-44.87	-14	-9.01	0
136.7	-22.67	-44.53	-14	-8.67	0
136.8	-22.49	-44.35	-14	-8.49	0
136.9	-22.46	-44.31	-14	-8.46	0
137.0	-22.56	-44.42	-14	-8.56	0
137.1	-22.82	-44.68	-14	-8.82	0
137.2	-23.23	-45.08	-14	-9.23	0
137.3	-23.79	-45.65	-14	-9.79	0
137.4	-24.54	-46.40	-14	-10.54	0
137.5	-25.49	-47.34	-14	-11.49	0
137.6	-26.66	-48.52	-14	-12.66	0
137.7	-28.12	-49.98	-14	-14.12	0
137.8	-29.90	-51.76	-14	-15.90	0
137.9	-32.05	-53.90	-14	-18.05	0
138.0	-34.41	-56.26	-14	-20.41	0
138.1	-36.18	-58.04	-14	-22.18	0
138.2	-36.00	-57.86	-14	-22.00	0
138.3	-34.26	-56.12	-14	-20.26	0
138.4	-32.32	-54.18	-14	-18.32	0
138.5	-30.70	-52.55	-14	-16.70	0
138.6	-29.43	-51.29	-14	-15.43	0
138.7	-28.49	-50.35	-14	-14.49	0
138.8	-27.82	-49.67	-14	-13.82	0
138.9	-27.37	-49.23	-14	-13.37	0
139.0	-27.13	-48.98	-14	-13.13	0
139.1	-27.05	-48.91	-14	-13.05	0

139.2	-27.12	-48.98	-14	-13.12	0
139.3	-27.30	-49.16	-14	-13.30	0
139.4	-27.55	-49.41	-14	-13.55	0
139.5	-27.81	-49.67	-14	-13.81	0
139.6	-28.01	-49.87	-14	-14.01	0
139.7	-28.07	-49.93	-14	-14.07	0
139.8	-27.94	-49.80	-14	-13.94	0
139.9	-27.61	-49.47	-14	-13.61	0
140.0	-27.13	-48.99	-14	-13.13	0
140.1	-26.57	-48.43	-14	-12.57	0
140.2	-25.99	-47.85	-14	-11.99	0
140.3	-25.47	-47.32	-14	-11.47	0
140.4	-25.02	-46.88	-14	-11.02	0
140.5	-24.69	-46.55	-14	-10.69	0
140.6	-24.49	-46.35	-14	-10.49	0
140.7	-24.44	-46.30	-14	-10.44	0
140.8	-24.55	-46.41	-14	-10.55	0
140.9	-24.84	-46.70	-14	-10.84	0
141.0	-25.34	-47.20	-14	-11.34	0
141.1	-26.09	-47.95	-14	-12.09	0
141.2	-27.14	-49.00	-14	-13.14	0
141.3	-28.60	-50.46	-14	-14.60	0
141.4	-30.66	-52.52	-14	-16.66	0
141.5	-33.73	-55.58	-14	-19.73	0
141.6	-39.05	-60.91	-14	-25.05	0
141.7	-57.15	-79.00	-14	-43.15	0
141.8	-40.73	-62.59	-14	-26.73	0
141.9	-34.16	-56.02	-14	-20.16	0
142.0	-30.50	-52.36	-14	-16.50	0
142.1	-28.01	-49.87	-14	-14.01	0
142.2	-26.18	-48.04	-14	-12.18	0
142.3	-24.79	-46.65	-14	-10.79	0
142.4	-23.73	-45.58	-14	-9.73	0
142.5	-22.92	-44.78	-14	-8.92	0
142.6	-22.34	-44.19	-14	-8.34	0
142.7	-21.94	-43.80	-14	-7.94	0
142.8	-21.73	-43.59	-14	-7.73	0
142.9	-21.70	-43.55	-14	-7.70	0
143.0	-21.83	-43.69	-14	-7.83	0
143.1	-22.14	-44.00	-14	-8.14	0
143.2	-22.64	-44.49	-14	-8.64	0
143.3	-23.35	-45.20	-14	-9.35	0
143.4	-24.29	-46.15	-14	-10.29	0
143.5	-25.54	-47.39	-14	-11.54	0
143.6	-27.16	-49.01	-14	-13.16	0
143.7	-29.30	-51.16	-14	-15.30	0
143.8	-32.26	-54.11	-14	-18.26	0
143.9	-36.60	-58.46	-14	-22.60	0
144.0	-42.32	-64.18	-14	-28.32	0
144.1	-39.76	-61.62	-14	-25.76	0

144.2	-34.80	-56.66	-14	-20.80	0
144.3	-31.61	-53.46	-14	-17.61	0
144.4	-29.48	-51.33	-14	-15.48	0
144.5	-28.00	-49.86	-14	-14.00	0
144.6	-26.99	-48.85	-14	-12.99	0
144.7	-26.34	-48.20	-14	-12.34	0
144.8	-25.99	-47.84	-14	-11.99	0
144.9	-25.90	-47.75	-14	-11.90	0
145.0	-26.05	-47.91	-14	-12.05	0
145.1	-26.44	-48.30	-14	-12.44	0
145.2	-27.06	-48.92	-14	-13.06	0
145.3	-27.89	-49.75	-14	-13.89	0
145.4	-28.87	-50.72	-14	-14.87	0
145.5	-29.84	-51.69	-14	-15.84	0
145.6	-30.50	-52.36	-14	-16.50	0
145.7	-30.52	-52.38	-14	-16.52	0
145.8	-29.82	-51.68	-14	-15.82	0
145.9	-28.70	-50.55	-14	-14.70	0
146.0	-27.48	-49.34	-14	-13.48	0
146.1	-26.37	-48.23	-14	-12.37	0
146.2	-25.44	-47.30	-14	-11.44	0
146.3	-24.72	-46.58	-14	-10.72	0
146.4	-24.21	-46.07	-14	-10.21	0
146.5	-23.91	-45.77	-14	-9.91	0
146.6	-23.82	-45.68	-14	-9.82	0
146.7	-23.95	-45.81	-14	-9.95	0
146.8	-24.32	-46.18	-14	-10.32	0
146.9	-24.95	-46.80	-14	-10.95	0
147.0	-25.89	-47.75	-14	-11.89	0
147.1	-27.23	-49.09	-14	-13.23	0
147.2	-29.13	-50.98	-14	-15.13	0
147.3	-31.91	-53.76	-14	-17.91	0
147.4	-36.47	-58.33	-14	-22.47	0
147.5	-47.13	-68.99	-14	-33.13	0
147.6	-42.31	-64.17	-14	-28.31	0
147.7	-34.57	-56.42	-14	-20.57	0
147.8	-30.61	-52.46	-14	-16.61	0
147.9	-28.03	-49.89	-14	-14.03	0
148.0	-26.22	-48.07	-14	-12.22	0
148.1	-24.89	-46.75	-14	-10.89	0
148.2	-23.94	-45.80	-14	-9.94	0
148.3	-23.29	-45.14	-14	-9.29	0
148.4	-22.89	-44.74	-14	-8.89	0
148.5	-22.72	-44.58	-14	-8.72	0
148.6	-22.78	-44.64	-14	-8.78	0
148.7	-23.07	-44.93	-14	-9.07	0
148.8	-23.61	-45.46	-14	-9.61	0
148.9	-24.40	-46.26	-14	-10.40	0
149.0	-25.51	-47.37	-14	-11.51	0
149.1	-27.00	-48.85	-14	-13.00	0

149.2	-28.95	-50.80	-14	-14.95	0
149.3	-31.46	-53.32	-14	-17.46	0
149.4	-34.29	-56.15	-14	-20.29	0
149.5	-35.62	-57.47	-14	-21.62	0
149.6	-33.78	-55.64	-14	-19.78	0
149.7	-31.13	-52.98	-14	-17.13	0
149.8	-28.94	-50.79	-14	-14.94	0
149.9	-27.31	-49.16	-14	-13.31	0
150.0	-26.14	-47.99	-14	-12.14	0
150.1	-25.35	-47.20	-14	-11.35	0
150.2	-24.89	-46.74	-14	-10.89	0
150.3	-24.73	-46.59	-14	-10.73	0
150.4	-24.87	-46.73	-14	-10.87	0
150.5	-25.33	-47.19	-14	-11.33	0
150.6	-26.14	-48.00	-14	-12.14	0
150.7	-27.39	-49.24	-14	-13.39	0
150.8	-29.22	-51.08	-14	-15.22	0
150.9	-31.97	-53.83	-14	-17.97	0
151.0	-36.37	-58.22	-14	-22.37	0
151.1	-42.65	-64.51	-14	-28.65	0
151.2	-38.17	-60.03	-14	-24.17	0
151.3	-32.68	-54.53	-14	-18.68	0
151.4	-29.22	-51.08	-14	-15.22	0
151.5	-26.85	-48.70	-14	-12.85	0
151.6	-25.12	-46.98	-14	-11.12	0
151.7	-23.86	-45.72	-14	-9.86	0
151.8	-22.95	-44.80	-14	-8.95	0
151.9	-22.32	-44.18	-14	-8.32	0
152.0	-21.96	-43.81	-14	-7.96	0
152.1	-21.82	-43.68	-14	-7.82	0
152.2	-21.92	-43.77	-14	-7.92	0
152.3	-22.25	-44.11	-14	-8.25	0
152.4	-22.83	-44.69	-14	-8.83	0
152.5	-23.70	-45.56	-14	-9.70	0
152.6	-24.90	-46.76	-14	-10.90	0
152.7	-26.54	-48.40	-14	-12.54	0
152.8	-28.78	-50.64	-14	-14.78	0
152.9	-31.94	-53.80	-14	-17.94	0
153.0	-36.58	-58.44	-14	-22.58	0
153.1	-40.55	-62.40	-14	-26.55	0
153.2	-36.39	-58.25	-14	-22.39	0
153.3	-32.26	-54.12	-14	-18.26	0
153.4	-29.57	-51.42	-14	-15.57	0
153.5	-27.77	-49.63	-14	-13.77	0
153.6	-26.59	-48.45	-14	-12.59	0
153.7	-25.88	-47.73	-14	-11.88	0
153.8	-25.55	-47.41	-14	-11.55	0
153.9	-25.59	-47.45	-14	-11.59	0
154.0	-25.99	-47.85	-14	-11.99	0
154.1	-26.78	-48.64	-14	-12.78	0

154.2	-28.03	-49.89	-14	-14.03	0
154.3	-29.83	-51.69	-14	-15.83	0
154.4	-32.21	-54.07	-14	-18.21	0
154.5	-34.49	-56.35	-14	-20.49	0
154.6	-34.19	-56.05	-14	-20.19	0
154.7	-31.41	-53.27	-14	-17.41	0
154.8	-28.58	-50.43	-14	-14.58	0
154.9	-26.31	-48.17	-14	-12.31	0
155.0	-24.57	-46.42	-14	-10.57	0
155.1	-23.24	-45.09	-14	-9.24	0
155.2	-22.24	-44.10	-14	-8.24	0
155.3	-21.54	-43.39	-14	-7.54	0
155.4	-21.09	-42.94	-14	-7.09	0
155.5	-20.87	-42.73	-14	-6.87	0
155.6	-20.89	-42.75	-14	-6.89	0
155.7	-21.15	-43.01	-14	-7.15	0
155.8	-21.66	-43.51	-14	-7.66	0
155.9	-22.45	-44.31	-14	-8.45	0
156.0	-23.57	-45.43	-14	-9.57	0
156.1	-25.12	-46.98	-14	-11.12	0
156.2	-27.24	-49.10	-14	-13.24	0
156.3	-30.20	-52.05	-14	-16.20	0
156.4	-34.28	-56.14	-14	-20.28	0
156.5	-37.19	-59.05	-14	-23.19	0
156.6	-33.90	-55.76	-14	-19.90	0
156.7	-30.13	-51.99	-14	-16.13	0
156.8	-27.48	-49.34	-14	-13.48	0
156.9	-25.64	-47.49	-14	-11.64	0
157.0	-24.35	-46.21	-14	-10.35	0
157.1	-23.50	-45.36	-14	-9.50	0
157.2	-22.99	-44.85	-14	-8.99	0
157.3	-22.79	-44.65	-14	-8.79	0
157.4	-22.87	-44.73	-14	-8.87	0
157.5	-23.23	-45.09	-14	-9.23	0
157.6	-23.87	-45.72	-14	-9.87	0
157.7	-24.78	-46.64	-14	-10.78	0
157.8	-25.94	-47.80	-14	-11.94	0
157.9	-27.25	-49.11	-14	-13.25	0
158.0	-28.38	-50.24	-14	-14.38	0
158.1	-28.79	-50.65	-14	-14.79	0
158.2	-28.19	-50.04	-14	-14.19	0
158.3	-26.94	-48.80	-14	-12.94	0
158.4	-25.59	-47.44	-14	-11.59	0
158.5	-24.40	-46.26	-14	-10.40	0
158.6	-23.47	-45.33	-14	-9.47	0
158.7	-22.83	-44.68	-14	-8.83	0
158.8	-22.45	-44.31	-14	-8.45	0
158.9	-22.36	-44.22	-14	-8.36	0
159.0	-22.55	-44.41	-14	-8.55	0
159.1	-23.05	-44.91	-14	-9.05	0

159.2	-23.91	-45.77	-14	-9.91	0
159.3	-25.20	-47.05	-14	-11.20	0
159.4	-27.05	-48.91	-14	-13.05	0
159.5	-29.67	-51.53	-14	-15.67	0
159.6	-33.08	-54.94	-14	-19.08	0
159.7	-34.85	-56.70	-14	-20.85	0
159.8	-31.88	-53.73	-14	-17.88	0
159.9	-28.36	-50.22	-14	-14.36	0
160.0	-25.70	-47.56	-14	-11.70	0
160.1	-23.74	-45.60	-14	-9.74	0
160.2	-22.29	-44.15	-14	-8.29	0
160.3	-21.24	-43.10	-14	-7.24	0
160.4	-20.51	-42.37	-14	-6.51	0
160.5	-20.07	-41.92	-14	-6.07	0
160.6	-19.87	-41.73	-14	-5.87	0
160.7	-19.93	-41.78	-14	-5.93	0
160.8	-20.22	-42.08	-14	-6.22	0
160.9	-20.78	-42.64	-14	-6.78	0
161.0	-21.63	-43.49	-14	-7.63	0
161.1	-22.81	-44.67	-14	-8.81	0
161.2	-24.40	-46.25	-14	-10.40	0
161.3	-26.49	-48.35	-14	-12.49	0
161.4	-29.23	-51.09	-14	-15.23	0
161.5	-32.43	-54.28	-14	-18.43	0
161.6	-34.04	-55.90	-14	-20.04	0
161.7	-32.12	-53.98	-14	-18.12	0
161.8	-29.48	-51.34	-14	-15.48	0
161.9	-27.47	-49.32	-14	-13.47	0
162.0	-26.10	-47.96	-14	-12.10	0
162.1	-25.28	-47.13	-14	-11.28	0
162.2	-24.92	-46.78	-14	-10.92	0
162.3	-25.01	-46.87	-14	-11.01	0
162.4	-25.57	-47.42	-14	-11.57	0
162.5	-26.68	-48.53	-14	-12.68	0
162.6	-28.53	-50.39	-14	-14.53	0
162.7	-31.62	-53.48	-14	-17.62	0
162.8	-37.48	-59.33	-14	-23.48	0
162.9	-45.93	-67.79	-14	-31.93	0
163.0	-34.69	-56.55	-14	-20.69	0
163.1	-29.32	-51.18	-14	-15.32	0
163.2	-26.04	-47.89	-14	-12.04	0
163.3	-23.77	-45.62	-14	-9.77	0
163.4	-22.12	-43.97	-14	-8.12	0
163.5	-20.92	-42.77	-14	-6.92	0
163.6	-20.07	-41.93	-14	-6.07	0
163.7	-19.52	-41.38	-14	-5.52	0
163.8	-19.24	-41.10	-14	-5.24	0
163.9	-19.22	-41.08	-14	-5.22	0
164.0	-19.46	-41.32	-14	-5.46	0
164.1	-19.98	-41.84	-14	-5.98	0

164.2	-20.81	-42.67	-14	-6.81	0
164.3	-22.02	-43.88	-14	-8.02	0
164.4	-23.72	-45.57	-14	-9.72	0
164.5	-26.13	-47.99	-14	-12.13	0
164.6	-29.79	-51.65	-14	-15.79	0
164.7	-36.43	-58.29	-14	-22.43	0
164.8	-45.37	-67.23	-14	-31.37	0
164.9	-33.74	-55.60	-14	-19.74	0
165.0	-28.88	-50.74	-14	-14.88	0
165.1	-26.09	-47.95	-14	-12.09	0
165.2	-24.31	-46.17	-14	-10.31	0
165.3	-23.18	-45.04	-14	-9.18	0
165.4	-22.53	-44.39	-14	-8.53	0
165.5	-22.30	-44.15	-14	-8.30	0
165.6	-22.45	-44.31	-14	-8.45	0
165.7	-23.00	-44.85	-14	-9.00	0
165.8	-23.99	-45.85	-14	-9.99	0
165.9	-25.54	-47.40	-14	-11.54	0
166.0	-27.83	-49.68	-14	-13.83	0
166.1	-31.11	-52.96	-14	-17.11	0
166.2	-34.51	-56.37	-14	-20.51	0
166.3	-32.99	-54.85	-14	-18.99	0
166.4	-29.04	-50.90	-14	-15.04	0
166.5	-25.98	-47.83	-14	-11.98	0
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166.7	-22.22	-44.07	-14	-8.22	0
166.8	-21.12	-42.98	-14	-7.12	0
166.9	-20.41	-42.26	-14	-6.41	0
167.0	-20.03	-41.89	-14	-6.03	0
167.1	-19.97	-41.82	-14	-5.97	0
167.2	-20.22	-42.08	-14	-6.22	0
167.3	-20.82	-42.68	-14	-6.82	0
167.4	-21.82	-43.67	-14	-7.82	0
167.5	-23.32	-45.18	-14	-9.32	0
167.6	-25.56	-47.42	-14	-11.56	0
167.7	-29.07	-50.92	-14	-15.07	0
167.8	-35.59	-57.45	-14	-21.59	0
167.9	-43.89	-65.75	-14	-29.89	0
168.0	-32.34	-54.20	-14	-18.34	0
168.1	-27.36	-49.22	-14	-13.36	0
168.2	-24.41	-46.27	-14	-10.41	0
168.3	-22.45	-44.31	-14	-8.45	0
168.4	-21.12	-42.98	-14	-7.12	0
168.5	-20.26	-42.11	-14	-6.26	0
168.6	-19.77	-41.63	-14	-5.77	0
168.7	-19.63	-41.49	-14	-5.63	0
168.8	-19.82	-41.67	-14	-5.82	0
168.9	-20.35	-42.21	-14	-6.35	0
169.0	-21.29	-43.14	-14	-7.29	0
169.1	-22.71	-44.57	-14	-8.71	0

169.2	-24.82	-46.68	-14	-10.82	0
169.3	-28.04	-49.90	-14	-14.04	0
169.4	-33.50	-55.36	-14	-19.50	0
169.5	-40.02	-61.87	-14	-26.02	0
169.6	-32.34	-54.19	-14	-18.34	0
169.7	-27.39	-49.25	-14	-13.39	0
169.8	-24.41	-46.27	-14	-10.41	0
169.9	-22.45	-44.30	-14	-8.45	0
170.0	-21.13	-42.99	-14	-7.13	0
170.1	-20.30	-42.16	-14	-6.30	0
170.2	-19.87	-41.73	-14	-5.87	0
170.3	-19.81	-41.67	-14	-5.81	0
170.4	-20.12	-41.97	-14	-6.12	0
170.5	-20.82	-42.67	-14	-6.82	0
170.6	-21.99	-43.85	-14	-7.99	0
170.7	-23.81	-45.66	-14	-9.81	0
170.8	-26.60	-48.46	-14	-12.60	0
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171.0	-39.74	-61.59	-14	-25.74	0
171.1	-33.51	-55.37	-14	-19.51	0
171.2	-27.52	-49.38	-14	-13.52	0
171.3	-24.05	-45.91	-14	-10.05	0
171.4	-21.76	-43.62	-14	-7.76	0
171.5	-20.19	-42.05	-14	-6.19	0
171.6	-19.13	-40.98	-14	-5.13	0
171.7	-18.46	-40.32	-14	-4.46	0
171.8	-18.15	-40.00	-14	-4.15	0
171.9	-18.17	-40.02	-14	-4.17	0
172.0	-18.52	-40.38	-14	-4.52	0
172.1	-19.25	-41.10	-14	-5.25	0
172.2	-20.42	-42.28	-14	-6.42	0
172.3	-22.19	-44.04	-14	-8.19	0
172.4	-24.86	-46.72	-14	-10.86	0
172.5	-29.28	-51.13	-14	-15.28	0
172.6	-38.47	-60.33	-14	-24.47	0
172.7	-34.73	-56.58	-14	-20.73	0
172.8	-27.52	-49.38	-14	-13.52	0
172.9	-23.72	-45.57	-14	-9.72	0
173.0	-21.30	-43.15	-14	-7.30	0
173.1	-19.66	-41.52	-14	-5.66	0
173.2	-18.57	-40.43	-14	-4.57	0
173.3	-17.90	-39.76	-14	-3.90	0
173.4	-17.60	-39.45	-14	-3.60	0
173.5	-17.64	-39.49	-14	-3.64	0
173.6	-18.03	-39.89	-14	-4.03	0
173.7	-18.81	-40.66	-14	-4.81	0
173.8	-20.05	-41.90	-14	-6.05	0
173.9	-21.90	-43.76	-14	-7.90	0
174.0	-24.65	-46.51	-14	-10.65	0
174.1	-28.80	-50.65	-14	-14.80	0

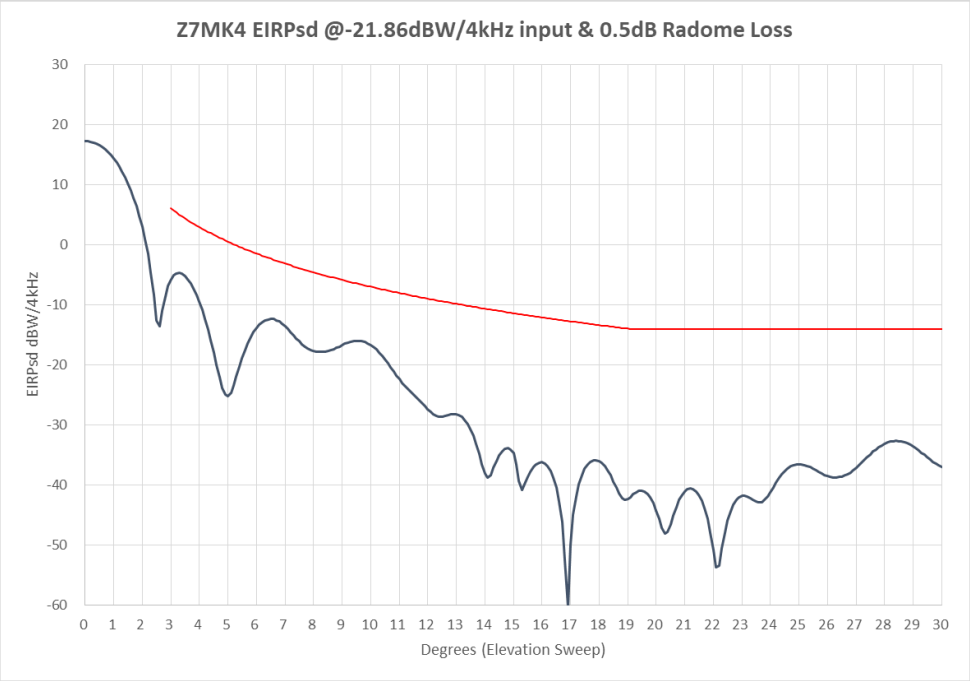
174.2	-32.85	-54.71	-14	-18.85	0
174.3	-29.17	-51.03	-14	-15.17	0
174.4	-24.76	-46.61	-14	-10.76	0
174.5	-21.78	-43.63	-14	-7.78	0
174.6	-19.74	-41.60	-14	-5.74	0
174.7	-18.33	-40.19	-14	-4.33	0
174.8	-17.40	-39.26	-14	-3.40	0
174.9	-16.87	-38.73	-14	-2.87	0
175.0	-16.69	-38.55	-14	-2.69	0
175.1	-16.87	-38.73	-14	-2.87	0
175.2	-17.42	-39.28	-14	-3.42	0
175.3	-18.40	-40.26	-14	-4.40	0
175.4	-19.94	-41.80	-14	-5.94	0
175.5	-22.29	-44.14	-14	-8.29	0
175.6	-25.99	-47.84	-14	-11.99	0
175.7	-32.00	-53.86	-14	-18.00	0
175.8	-31.54	-53.40	-14	-17.54	0
175.9	-25.36	-47.22	-14	-11.36	0
176.0	-21.48	-43.34	-14	-7.48	0
176.1	-18.91	-40.77	-14	-4.91	0
176.2	-17.13	-38.98	-14	-3.13	0
176.3	-15.88	-37.73	-14	-1.88	0
176.4	-15.05	-36.90	-14	-1.05	0
176.5	-14.57	-36.43	-14	-0.57	0
176.6	-14.42	-36.27	-14	-0.42	0
176.7	-14.59	-36.44	-14	-0.59	0
176.8	-15.10	-36.96	-14	-1.10	0
176.9	-16.00	-37.86	-14	-2.00	0
177.0	-17.40	-39.25	-14	-3.40	0
177.1	-19.47	-41.32	-14	-5.47	0
177.2	-22.58	-44.43	-14	-8.58	0
177.3	-27.24	-49.10	-14	-13.24	0
177.4	-29.42	-51.28	-14	-15.42	0
177.5	-24.37	-46.23	-14	-10.37	0
177.6	-20.30	-42.16	-14	-6.30	0
177.7	-17.55	-39.41	-14	-3.55	0
177.8	-15.62	-37.47	-14	-1.62	0
177.9	-14.25	-36.10	-14	-0.25	0
178.0	-13.30	-35.16	-14	0.70	0
178.1	-12.71	-34.57	-14	1.29	0
178.2	-12.44	-34.30	-14	1.56	0
178.3	-12.48	-34.34	-14	1.52	0
178.4	-12.84	-34.69	-14	1.16	0
178.5	-13.55	-35.41	-14	0.45	0
178.6	-14.70	-36.56	-14	-0.70	0
178.7	-16.43	-38.29	-14	-2.43	0
178.8	-19.07	-40.93	-14	-5.07	0
178.9	-23.44	-45.30	-14	-9.44	0
179.0	-32.28	-54.14	-14	-18.28	0
179.1	-28.03	-49.88	-14	-14.03	0

179.2	-21.04	-42.89	-14	-7.04	0
179.3	-17.16	-39.02	-14	-3.16	0
179.4	-14.60	-36.46	-14	-0.60	0
179.5	-12.78	-34.64	-14	1.22	0
179.6	-11.46	-33.32	-14	2.54	0
179.7	-10.52	-32.37	-14	3.48	0
179.8	-9.88	-31.73	-14	4.12	0
179.9	-9.51	-31.36	-14	4.49	0
180.0	-9.39	-31.24	-14	4.61	0

1. Maximum co-polarized EIRP density

1) 14GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model	Z7MK4		Min input: (@all freq.)	-21.86
Frequency	14.00	[GHz]		
GSO arc	Perpendicular			
EIRPsd Input	-21.81	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	39.07			out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	39.07	17.26			
0.1	39.04	17.23			
0.2	38.95	17.14			
0.3	38.81	17.00			
0.4	38.61	16.80			
0.5	38.35	16.54			
0.6	38.03	16.22			
0.7	37.65	15.85			
0.8	37.21	15.40			
0.9	36.71	14.90			
1.0	36.13	14.32			
1.1	35.48	13.67			
1.2	34.75	12.94			
1.3	33.94	12.13			
1.4	33.03	11.22			
1.5	32.03	10.22			
1.6	30.90	9.09			
1.7	29.65	7.84			
1.8	28.24	6.44			
1.9	26.66	4.85			
2.0	24.84	3.03			
2.1	22.73	0.92			
2.2	20.24	-1.57			
2.3	17.20	-4.61			
2.4	13.42	-8.39			
2.5	9.25	-12.56			
2.6	8.17	-13.64			
2.7	10.78	-11.03			
2.8	13.22	-8.59			
2.9	14.90	-6.91			
3.0	15.99	-5.82	6.071968632	9.92	0
3.1	16.66	-5.15	5.715957654	10.95	0
3.2	17.00	-4.81	5.371250542	11.63	0
3.3	17.08	-4.73	5.037151503	12.05	0
3.4	16.94	-4.87	4.713027074	12.23	0
3.5	16.60	-5.21	4.398298891	12.20	0
3.6	16.08	-5.73	4.092437481	11.98	0
3.7	15.38	-6.43	3.794956898	11.59	0
3.8	14.52	-7.29	3.505410085	11.01	0
3.9	13.49	-8.32	3.223384824	10.27	0
4.0	12.30	-9.51	2.948500217	9.35	0
4.1	10.94	-10.87	2.680403582	8.26	0

4.2	9.41	-12.40	2.41876774	6.99	0
4.3	7.71	-14.10	2.163288611	5.54	0
4.4	5.84	-15.97	1.913683088	3.93	0
4.5	3.84	-17.97	1.669687156	2.17	0
4.6	1.77	-20.04	1.431054208	0.34	0
4.7	-0.25	-22.06	1.197553552	-1.45	0
4.8	-2.00	-23.81	0.968969066	-2.97	0
4.9	-3.16	-24.97	0.745097999	-3.90	0
5.0	-3.43	-25.24	0.525749892	-3.96	0
5.1	-2.82	-24.63	0.310745598	-3.13	0
5.2	-1.59	-23.40	0.099916409	-1.69	0
5.3	-0.09	-21.90	-0.10689674	0.02	0
5.4	1.46	-20.35	-0.309843996	1.77	0
5.5	2.92	-18.89	-0.509067237	3.43	0
5.6	4.25	-17.56	-0.704700675	4.95	0
5.7	5.41	-16.39	-0.896871392	6.31	0
5.8	6.42	-15.39	-1.085699839	7.50	0
5.9	7.26	-14.55	-1.271300291	8.53	0
6.0	7.96	-13.85	-1.45378126	9.41	0
6.1	8.51	-13.30	-1.633245875	10.14	0
6.2	8.93	-12.88	-1.809792237	10.74	0
6.3	9.22	-12.59	-1.983513736	11.20	0
6.4	9.39	-12.42	-2.15449935	11.54	0
6.5	9.45	-12.36	-2.322833916	11.77	0
6.6	9.40	-12.41	-2.488598389	11.89	0
6.7	9.25	-12.56	-2.651870068	11.90	0
6.8	9.01	-12.80	-2.812722818	11.83	0
6.9	8.69	-13.12	-2.971227268	11.66	0
7.0	8.29	-13.52	-3.127451	11.42	0
7.1	7.83	-13.98	-3.281458718	11.11	0
7.2	7.32	-14.49	-3.433312411	10.75	0
7.3	6.78	-15.03	-3.583071503	10.37	0
7.4	6.24	-15.57	-3.730792993	9.97	0
7.5	5.72	-16.09	-3.876531585	9.59	0
7.6	5.24	-16.57	-4.020339807	9.26	0
7.7	4.82	-16.99	-4.162268129	8.98	0
7.8	4.49	-17.32	-4.302365067	8.79	0
7.9	4.23	-17.58	-4.440677282	8.67	0
8.0	4.06	-17.75	-4.577249675	8.64	0
8.1	3.96	-17.85	-4.712125472	8.67	0
8.2	3.93	-17.88	-4.84534631	8.77	0
8.3	3.95	-17.86	-4.976952309	8.92	0
8.4	4.01	-17.80	-5.106982152	9.12	0
8.5	4.12	-17.69	-5.235473143	9.35	0
8.6	4.27	-17.54	-5.362461281	9.63	0
8.7	4.45	-17.36	-5.487981315	9.93	0
8.8	4.65	-17.16	-5.612066804	10.26	0
8.9	4.87	-16.94	-5.734750166	10.61	0
9.0	5.10	-16.71	-5.856062736	10.95	0
9.1	5.31	-16.50	-5.976034808	11.29	0

9.2	5.50	-16.31	-6.094695684	11.60	0
9.3	5.66	-16.15	-6.212073714	11.87	0
9.4	5.77	-16.04	-6.32819634	12.10	0
9.5	5.83	-15.98	-6.443090132	12.28	0
9.6	5.83	-15.98	-6.556780826	12.39	0
9.7	5.77	-16.04	-6.669293357	12.44	0
9.8	5.63	-16.18	-6.780651892	12.41	0
9.9	5.42	-16.39	-6.890879865	12.31	0
10.0	5.14	-16.67	-7	12.14	0
10.1	4.78	-17.02	-7.108034345	11.89	0
10.2	4.36	-17.45	-7.215004294	11.57	0
10.3	3.86	-17.95	-7.320930618	11.18	0
10.4	3.31	-18.50	-7.425833482	10.73	0
10.5	2.70	-19.11	-7.529732477	10.23	0
10.6	2.05	-19.76	-7.632646632	9.68	0
10.7	1.38	-20.43	-7.734594442	9.12	0
10.8	0.71	-21.10	-7.835593887	8.54	0
10.9	0.05	-21.76	-7.935662449	7.98	0
11.0	-0.58	-22.39	-8.034817129	7.46	0
11.1	-1.16	-22.97	-8.13307447	6.98	0
11.2	-1.69	-23.50	-8.230450567	6.54	0
11.3	-2.18	-23.98	-8.326961087	6.15	0
11.4	-2.64	-24.45	-8.422621283	5.79	0
11.5	-3.09	-24.90	-8.517446009	5.43	0
11.6	-3.55	-25.36	-8.611449731	5.06	0
11.7	-4.03	-25.84	-8.704646544	4.67	0
11.8	-4.54	-26.35	-8.797050183	4.25	0
11.9	-5.07	-26.88	-8.888674035	3.82	0
12.0	-5.59	-27.40	-8.979531151	3.39	0
12.1	-6.07	-27.88	-9.069634258	3.00	0
12.2	-6.46	-28.27	-9.158995767	2.70	0
12.3	-6.72	-28.53	-9.247627786	2.53	0
12.4	-6.84	-28.65	-9.335542129	2.50	0
12.5	-6.82	-28.63	-9.422750325	2.60	0
12.6	-6.72	-28.53	-9.509263628	2.79	0
12.7	-6.58	-28.39	-9.595093024	3.02	0
12.8	-6.45	-28.26	-9.680249241	3.23	0
12.9	-6.39	-28.20	-9.764742757	3.37	0
13.0	-6.43	-28.24	-9.848583808	3.42	0
13.1	-6.59	-28.40	-9.931782391	3.34	0
13.2	-6.90	-28.71	-10.01434828	3.12	0
13.3	-7.37	-29.18	-10.09629102	2.72	0
13.4	-8.04	-29.85	-10.17761996	2.14	0
13.5	-8.91	-30.72	-10.25834421	1.35	0
13.6	-10.02	-31.83	-10.33847271	0.32	0
13.7	-11.38	-33.19	-10.41801418	-0.96	0
13.8	-12.98	-34.79	-10.49697716	-2.48	0
13.9	-14.73	-36.54	-10.57537001	-4.16	0
14.0	-16.29	-38.10	-10.65320089	-5.63	0
14.1	-16.99	-38.80	-10.73047782	-6.26	0

14.2	-16.52	-38.33	-10.80720861	-5.71	0
14.3	-15.38	-37.19	-10.88340094	-4.50	0
14.4	-14.19	-36.00	-10.9590623	-3.23	0
14.5	-13.22	-35.03	-11.03420006	-2.19	0
14.6	-12.54	-34.35	-11.10882139	-1.43	0
14.7	-12.17	-33.98	-11.18293337	-0.98	0
14.8	-12.09	-33.90	-11.25654288	-0.84	0
14.9	-12.32	-34.13	-11.32965671	-0.99	0
15.0	-12.88	-34.69	-11.40228148	-1.48	0
15.1	-14.78	-36.59	-11.47442368	-3.31	0
15.2	-17.58	-39.39	-11.5460897	-6.03	0
15.3	-19.10	-40.90	-11.61728577	-7.48	0
15.4	-18.08	-39.89	-11.68801802	-6.39	0
15.5	-16.84	-38.65	-11.75829245	-5.08	0
15.6	-16.05	-37.86	-11.82811496	-4.22	0
15.7	-15.25	-37.06	-11.89749131	-3.36	0
15.8	-14.73	-36.54	-11.96642717	-2.76	0
15.9	-14.45	-36.26	-12.03492811	-2.42	0
16.0	-14.42	-36.23	-12.10299957	-2.32	0
16.1	-14.64	-36.45	-12.1706469	-2.47	0
16.2	-15.12	-36.93	-12.23787536	-2.88	0
16.3	-15.90	-37.71	-12.30469011	-3.60	0
16.4	-17.04	-38.85	-12.3710962	-4.67	0
16.5	-18.65	-40.46	-12.43709861	-6.21	0
16.6	-20.95	-42.76	-12.5027022	-8.45	0
16.7	-24.43	-46.24	-12.56791178	-11.86	0
16.8	-30.61	-52.42	-12.63273204	-17.98	0
16.9	-38.60	-60.40	-12.69716762	-25.90	0
17.0	-28.23	-50.03	-12.76122303	-15.46	0
17.1	-23.17	-44.98	-12.82490276	-10.35	0
17.2	-20.13	-41.94	-12.88821117	-7.24	0
17.3	-18.06	-39.87	-12.95115258	-5.11	0
17.4	-16.58	-38.39	-13.01373121	-3.57	0
17.5	-15.52	-37.33	-13.07595122	-2.45	0
17.6	-14.78	-36.59	-13.1378167	-1.65	0
17.7	-14.31	-36.12	-13.19933166	-1.11	0
17.8	-14.07	-35.88	-13.26050006	-0.81	0
17.9	-14.03	-35.84	-13.32132577	-0.71	0
18.0	-14.19	-36.00	-13.38181263	-0.81	0
18.1	-14.54	-36.35	-13.44196437	-1.10	0
18.2	-15.07	-36.88	-13.5017847	-1.57	0
18.3	-15.77	-37.58	-13.56127724	-2.21	0
18.4	-16.63	-38.44	-13.62044558	-3.01	0
18.5	-17.61	-39.42	-13.67929321	-3.93	0
18.6	-18.65	-40.46	-13.73782361	-4.92	0
18.7	-19.62	-41.43	-13.79604016	-5.83	0
18.8	-20.35	-42.16	-13.85394623	-6.49	0
18.9	-20.67	-42.48	-13.9115451	-6.75	0
19.0	-20.57	-42.38	-13.96884002	-6.61	0
19.1	-20.21	-42.02	-14.02583418	-6.19	0

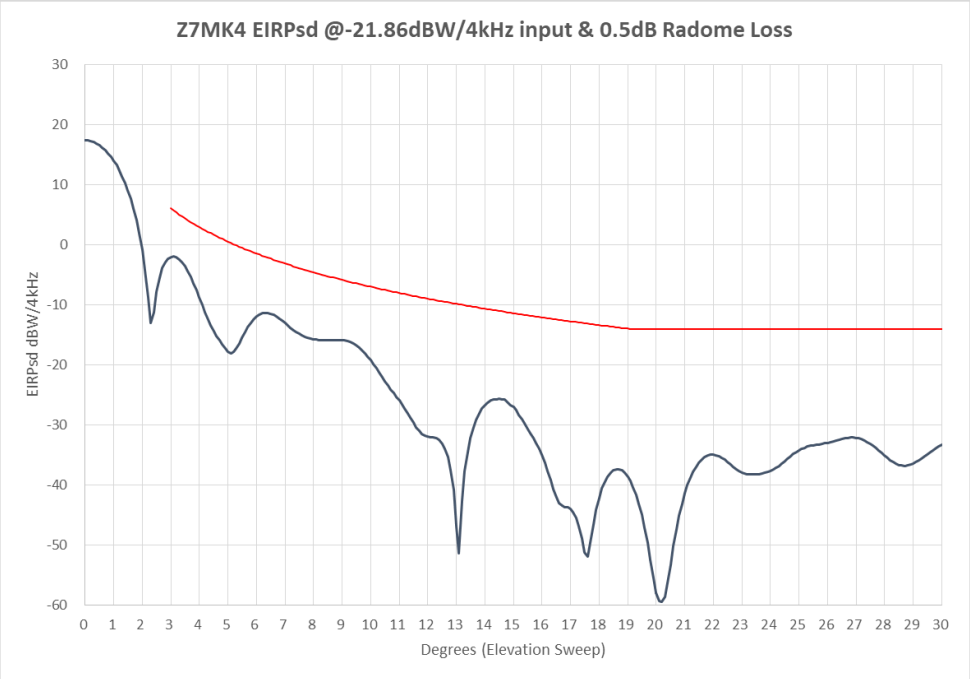
19.2	-19.77	-41.58	-14	-5.77	0
19.3	-19.39	-41.20	-14	-5.39	0
19.4	-19.15	-40.96	-14	-5.15	0
19.5	-19.10	-40.91	-14	-5.10	0
19.6	-19.27	-41.08	-14	-5.27	0
19.7	-19.67	-41.48	-14	-5.67	0
19.8	-20.33	-42.14	-14	-6.33	0
19.9	-21.25	-43.06	-14	-7.25	0
20.0	-22.46	-44.27	-14	-8.46	0
20.1	-23.89	-45.70	-14	-9.89	0
20.2	-25.33	-47.14	-14	-11.33	0
20.3	-26.23	-48.04	-14	-12.23	0
20.4	-25.99	-47.80	-14	-11.99	0
20.5	-24.78	-46.59	-14	-10.78	0
20.6	-23.27	-45.08	-14	-9.27	0
20.7	-21.87	-43.68	-14	-7.87	0
20.8	-20.74	-42.55	-14	-6.74	0
20.9	-19.87	-41.68	-14	-5.87	0
21.0	-19.27	-41.08	-14	-5.27	0
21.1	-18.91	-40.72	-14	-4.91	0
21.2	-18.80	-40.61	-14	-4.80	0
21.3	-18.92	-40.73	-14	-4.92	0
21.4	-19.28	-41.09	-14	-5.28	0
21.5	-19.91	-41.72	-14	-5.91	0
21.6	-20.83	-42.64	-14	-6.83	0
21.7	-22.11	-43.91	-14	-8.11	0
21.8	-23.82	-45.63	-14	-9.82	0
21.9	-26.10	-47.91	-14	-12.10	0
22.0	-29.03	-50.84	-14	-15.03	0
22.1	-31.91	-53.72	-14	-17.91	0
22.2	-31.68	-53.48	-14	-17.68	0
22.3	-28.80	-50.61	-14	-14.80	0
22.4	-26.10	-47.91	-14	-12.10	0
22.5	-24.06	-45.87	-14	-10.06	0
22.6	-22.56	-44.37	-14	-8.56	0
22.7	-21.48	-43.29	-14	-7.48	0
22.8	-20.73	-42.54	-14	-6.73	0
22.9	-20.25	-42.06	-14	-6.25	0
23.0	-20.01	-41.82	-14	-6.01	0
23.1	-19.96	-41.77	-14	-5.96	0
23.2	-20.09	-41.90	-14	-6.09	0
23.3	-20.34	-42.15	-14	-6.34	0
23.4	-20.66	-42.47	-14	-6.66	0
23.5	-20.96	-42.77	-14	-6.96	0
23.6	-21.14	-42.95	-14	-7.14	0
23.7	-21.08	-42.89	-14	-7.08	0
23.8	-20.74	-42.55	-14	-6.74	0
23.9	-20.14	-41.95	-14	-6.14	0
24.0	-19.38	-41.19	-14	-5.38	0
24.1	-18.56	-40.37	-14	-4.56	0

24.2	-17.76	-39.57	-14	-3.76	0
24.3	-17.03	-38.84	-14	-3.03	0
24.4	-16.39	-38.20	-14	-2.39	0
24.5	-15.86	-37.67	-14	-1.86	0
24.6	-15.43	-37.24	-14	-1.43	0
24.7	-15.11	-36.92	-14	-1.11	0
24.8	-14.89	-36.70	-14	-0.89	0
24.9	-14.76	-36.57	-14	-0.76	0
25.0	-14.72	-36.53	-14	-0.72	0
25.1	-14.76	-36.57	-14	-0.76	0
25.2	-14.87	-36.68	-14	-0.87	0
25.3	-15.03	-36.84	-14	-1.03	0
25.4	-15.25	-37.06	-14	-1.25	0
25.5	-15.50	-37.31	-14	-1.50	0
25.6	-15.77	-37.58	-14	-1.77	0
25.7	-16.04	-37.85	-14	-2.04	0
25.8	-16.29	-38.10	-14	-2.29	0
25.9	-16.52	-38.33	-14	-2.52	0
26.0	-16.70	-38.51	-14	-2.70	0
26.1	-16.84	-38.64	-14	-2.84	0
26.2	-16.91	-38.72	-14	-2.91	0
26.3	-16.93	-38.74	-14	-2.93	0
26.4	-16.89	-38.70	-14	-2.89	0
26.5	-16.79	-38.60	-14	-2.79	0
26.6	-16.63	-38.44	-14	-2.63	0
26.7	-16.40	-38.21	-14	-2.40	0
26.8	-16.12	-37.93	-14	-2.12	0
26.9	-15.77	-37.58	-14	-1.77	0
27.0	-15.38	-37.19	-14	-1.38	0
27.1	-14.94	-36.75	-14	-0.94	0
27.2	-14.48	-36.29	-14	-0.48	0
27.3	-14.01	-35.82	-14	-0.01	0
27.4	-13.54	-35.35	-14	0.46	0
27.5	-13.08	-34.89	-14	0.92	0
27.6	-12.65	-34.46	-14	1.35	0
27.7	-12.25	-34.06	-14	1.75	0
27.8	-11.90	-33.71	-14	2.10	0
27.9	-11.59	-33.40	-14	2.41	0
28.0	-11.34	-33.15	-14	2.66	0
28.1	-11.14	-32.95	-14	2.86	0
28.2	-10.99	-32.80	-14	3.01	0
28.3	-10.90	-32.71	-14	3.10	0
28.4	-10.87	-32.68	-14	3.13	0
28.5	-10.89	-32.70	-14	3.11	0
28.6	-10.97	-32.78	-14	3.03	0
28.7	-11.10	-32.91	-14	2.90	0
28.8	-11.28	-33.09	-14	2.72	0
28.9	-11.51	-33.32	-14	2.49	0
29.0	-11.78	-33.59	-14	2.22	0
29.1	-12.09	-33.90	-14	1.91	0

29.2	-12.43	-34.24	-14	1.57	0
29.3	-12.80	-34.61	-14	1.20	0
29.4	-13.18	-34.99	-14	0.82	0
29.5	-13.57	-35.38	-14	0.43	0
29.6	-13.96	-35.77	-14	0.04	0
29.7	-14.33	-36.14	-14	-0.33	0
29.8	-14.66	-36.47	-14	-0.66	0
29.9	-14.96	-36.77	-14	-0.96	0
30.0	-15.20	-37.01	-14	-1.20	0

3) 14.5GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model	Z7MK4		Min input: (@all freq.)	-21.86
Frequency	14.50	[GHz]		
GSO arc	Perpendicular			
EIRPsd Input	-21.86	[dBW/4kHz]		
Radome Loss	0.5	[dB]		
	39.22			out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	39.22	17.37			
0.1	39.19	17.34			
0.2	39.10	17.24			
0.3	38.94	17.08			
0.4	38.71	16.85			
0.5	38.42	16.56			
0.6	38.05	16.20			
0.7	37.62	15.76			
0.8	37.11	15.25			
0.9	36.52	14.67			
1.0	35.85	13.99			
1.1	35.08	13.23			
1.2	34.22	12.36			
1.3	33.24	11.38			
1.4	32.14	10.28			
1.5	30.89	9.04			
1.6	29.48	7.62			
1.7	27.86	6.00			
1.8	25.97	4.12			
1.9	23.74	1.89			
2.0	21.03	-0.83			
2.1	17.59	-4.26			
2.2	13.12	-8.74			
2.3	8.86	-12.99			
2.4	10.61	-11.24			
2.5	14.04	-7.82			
2.6	16.41	-5.45			
2.7	17.96	-3.90			
2.8	18.95	-2.90			
2.9	19.55	-2.30			
3.0	19.85	-2.00	6.071968632	13.78	0
3.1	19.91	-1.95	5.715957654	14.19	0
3.2	19.75	-2.10	5.371250542	14.38	0
3.3	19.42	-2.44	5.037151503	14.38	0
3.4	18.91	-2.94	4.713027074	14.20	0
3.5	18.25	-3.60	4.398298891	13.86	0
3.6	17.45	-4.40	4.092437481	13.36	0
3.7	16.52	-5.34	3.794956898	12.72	0
3.8	15.46	-6.40	3.505410085	11.96	0
3.9	14.31	-7.55	3.223384824	11.08	0
4.0	13.08	-8.78	2.948500217	10.13	0
4.1	11.82	-10.04	2.680403582	9.14	0

4.2	10.58	-11.28	2.41876774	8.16	0
4.3	9.42	-12.44	2.163288611	7.26	0
4.4	8.38	-13.48	1.913683088	6.46	0
4.5	7.47	-14.39	1.669687156	5.80	0
4.6	6.66	-15.19	1.431054208	5.23	0
4.7	5.92	-15.93	1.197553552	4.73	0
4.8	5.22	-16.63	0.968969066	4.25	0
4.9	4.58	-17.28	0.745097999	3.83	0
5.0	4.07	-17.79	0.525749892	3.54	0
5.1	3.83	-18.03	0.310745598	3.52	0
5.2	3.98	-17.87	0.099916409	3.88	0
5.3	4.54	-17.31	-0.10689674	4.65	0
5.4	5.38	-16.47	-0.309843996	5.69	0
5.5	6.33	-15.52	-0.509067237	6.84	0
5.6	7.27	-14.58	-0.704700675	7.98	0
5.7	8.12	-13.74	-0.896871392	9.02	0
5.8	8.84	-13.01	-1.085699839	9.93	0
5.9	9.44	-12.42	-1.271300291	10.71	0
6.0	9.89	-11.97	-1.45378126	11.34	0
6.1	10.22	-11.64	-1.633245875	11.85	0
6.2	10.42	-11.44	-1.809792237	12.23	0
6.3	10.50	-11.35	-1.983513736	12.49	0
6.4	10.48	-11.37	-2.15449935	12.64	0
6.5	10.37	-11.49	-2.322833916	12.69	0
6.6	10.17	-11.69	-2.488598389	12.66	0
6.7	9.89	-11.96	-2.651870068	12.54	0
6.8	9.56	-12.30	-2.812722818	12.37	0
6.9	9.19	-12.67	-2.971227268	12.16	0
7.0	8.79	-13.07	-3.127451	11.91	0
7.1	8.38	-13.48	-3.281458718	11.66	0
7.2	7.99	-13.87	-3.433312411	11.42	0
7.3	7.62	-14.24	-3.583071503	11.20	0
7.4	7.29	-14.57	-3.730792993	11.02	0
7.5	7.01	-14.85	-3.876531585	10.88	0
7.6	6.77	-15.09	-4.020339807	10.79	0
7.7	6.56	-15.29	-4.162268129	10.73	0
7.8	6.40	-15.46	-4.302365067	10.70	0
7.9	6.26	-15.59	-4.440677282	10.70	0
8.0	6.15	-15.71	-4.577249675	10.73	0
8.1	6.06	-15.80	-4.712125472	10.77	0
8.2	5.99	-15.86	-4.84534631	10.84	0
8.3	5.95	-15.90	-4.976952309	10.93	0
8.4	5.93	-15.92	-5.106982152	11.04	0
8.5	5.93	-15.92	-5.235473143	11.17	0
8.6	5.95	-15.91	-5.362461281	11.31	0
8.7	5.97	-15.88	-5.487981315	11.46	0
8.8	5.99	-15.87	-5.612066804	11.60	0
8.9	5.99	-15.86	-5.734750166	11.73	0
9.0	5.97	-15.89	-5.856062736	11.83	0
9.1	5.91	-15.95	-5.976034808	11.88	0

9.2	5.80	-16.06	-6.094695684	11.89	0
9.3	5.63	-16.22	-6.212073714	11.85	0
9.4	5.41	-16.45	-6.32819634	11.74	0
9.5	5.12	-16.74	-6.443090132	11.56	0
9.6	4.75	-17.10	-6.556780826	11.31	0
9.7	4.32	-17.53	-6.669293357	10.99	0
9.8	3.83	-18.03	-6.780651892	10.61	0
9.9	3.26	-18.59	-6.890879865	10.15	0
10.0	2.64	-19.22	-7	9.64	0
10.1	1.97	-19.88	-7.108034345	9.08	0
10.2	1.27	-20.59	-7.215004294	8.48	0
10.3	0.54	-21.31	-7.320930618	7.87	0
10.4	-0.18	-22.04	-7.425833482	7.25	0
10.5	-0.89	-22.75	-7.529732477	6.64	0
10.6	-1.58	-23.43	-7.632646632	6.05	0
10.7	-2.23	-24.09	-7.734594442	5.50	0
10.8	-2.87	-24.72	-7.835593887	4.97	0
10.9	-3.49	-25.34	-7.935662449	4.45	0
11.0	-4.11	-25.97	-8.034817129	3.92	0
11.1	-4.76	-26.62	-8.13307447	3.37	0
11.2	-5.45	-27.31	-8.230450567	2.78	0
11.3	-6.19	-28.05	-8.326961087	2.14	0
11.4	-6.97	-28.82	-8.422621283	1.45	0
11.5	-7.76	-29.62	-8.517446009	0.76	0
11.6	-8.52	-30.37	-8.611449731	0.09	0
11.7	-9.18	-31.03	-8.704646544	-0.47	0
11.8	-9.67	-31.53	-8.797050183	-0.87	0
11.9	-9.97	-31.83	-8.888674035	-1.08	0
12.0	-10.11	-31.97	-8.979531151	-1.13	0
12.1	-10.16	-32.01	-9.069634258	-1.09	0
12.2	-10.21	-32.07	-9.158995767	-1.05	0
12.3	-10.36	-32.21	-9.247627786	-1.11	0
12.4	-10.68	-32.53	-9.335542129	-1.34	0
12.5	-11.25	-33.11	-9.422750325	-1.83	0
12.6	-12.17	-34.02	-9.509263628	-2.66	0
12.7	-13.55	-35.41	-9.595093024	-3.96	0
12.8	-15.64	-37.50	-9.680249241	-5.96	0
12.9	-18.96	-40.82	-9.764742757	-9.20	0
13.0	-25.04	-46.89	-9.848583808	-15.19	0
13.1	-29.57	-51.43	-9.931782391	-19.64	0
13.2	-20.70	-42.56	-10.01434828	-10.69	0
13.3	-15.78	-37.64	-10.09629102	-5.69	0
13.4	-12.62	-34.47	-10.17761996	-2.44	0
13.5	-10.34	-32.20	-10.25834421	-0.09	0
13.6	-8.63	-30.48	-10.33847271	1.71	0
13.7	-7.29	-29.15	-10.41801418	3.12	0
13.8	-6.26	-28.12	-10.49697716	4.24	0
13.9	-5.46	-27.31	-10.57537001	5.12	0
14.0	-4.85	-26.71	-10.65320089	5.80	0
14.1	-4.41	-26.27	-10.73047782	6.32	0

14.2	-4.11	-25.97	-10.80720861	6.70	0
14.3	-3.93	-25.79	-10.88340094	6.95	0
14.4	-3.85	-25.70	-10.9590623	7.11	0
14.5	-3.84	-25.69	-11.03420006	7.20	0
14.6	-3.88	-25.73	-11.10882139	7.23	0
14.7	-3.94	-25.80	-11.18293337	7.24	0
14.8	-4.40	-26.26	-11.25654288	6.85	0
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15.0	-5.12	-26.98	-11.40228148	6.28	0
15.1	-5.76	-27.61	-11.47442368	5.72	0
15.2	-6.53	-28.39	-11.5460897	5.01	0
15.3	-7.14	-29.00	-11.61728577	4.47	0
15.4	-7.91	-29.76	-11.68801802	3.78	0
15.5	-8.89	-30.74	-11.75829245	2.87	0
15.6	-9.53	-31.38	-11.82811496	2.30	0
15.7	-10.42	-32.27	-11.89749131	1.48	0
15.8	-11.16	-33.02	-11.96642717	0.81	0
15.9	-12.07	-33.93	-12.03492811	-0.03	0
16.0	-13.15	-35.00	-12.10299957	-1.04	0
16.1	-14.39	-36.25	-12.1706469	-2.22	0
16.2	-15.80	-37.66	-12.23787536	-3.56	0
16.3	-17.31	-39.17	-12.30469011	-5.01	0
16.4	-18.84	-40.69	-12.3710962	-6.47	0
16.5	-20.19	-42.04	-12.43709861	-7.75	0
16.6	-21.15	-43.01	-12.5027022	-8.65	0
16.7	-21.65	-43.50	-12.56791178	-9.08	0
16.8	-21.82	-43.68	-12.63273204	-9.19	0
16.9	-21.92	-43.78	-12.69716762	-9.22	0
17.0	-22.16	-44.01	-12.76122303	-9.40	0
17.1	-22.68	-44.54	-12.82490276	-9.85	0
17.2	-23.60	-45.46	-12.88821117	-10.72	0
17.3	-25.04	-46.90	-12.95115258	-12.09	0
17.4	-27.08	-48.93	-13.01373121	-14.06	0
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17.6	-30.11	-51.97	-13.1378167	-16.97	0
17.7	-27.78	-49.64	-13.19933166	-14.58	0
17.8	-24.77	-46.63	-13.26050006	-11.51	0
17.9	-22.25	-44.11	-13.32132577	-8.93	0
18.0	-20.29	-42.14	-13.38181263	-6.91	0
18.1	-18.77	-40.62	-13.44196437	-5.32	0
18.2	-17.60	-39.46	-13.5017847	-4.10	0
18.3	-16.73	-38.59	-13.56127724	-3.17	0
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18.6	-15.54	-37.40	-13.73782361	-1.81	0
18.7	-15.56	-37.41	-13.79604016	-1.76	0
18.8	-15.76	-37.62	-13.85394623	-1.91	0
18.9	-16.15	-38.01	-13.9115451	-2.24	0
19.0	-16.74	-38.60	-13.96884002	-2.77	0
19.1	-17.53	-39.39	-14.02583418	-3.51	0

19.2	-18.54	-40.40	-14	-4.54	0
19.3	-19.79	-41.65	-14	-5.79	0
19.4	-21.31	-43.16	-14	-7.31	0
19.5	-23.12	-44.98	-14	-9.12	0
19.6	-25.28	-47.13	-14	-11.28	0
19.7	-27.81	-49.67	-14	-13.81	0
19.8	-30.68	-52.54	-14	-16.68	0
19.9	-33.67	-55.52	-14	-19.67	0
20.0	-36.12	-57.98	-14	-22.12	0
20.1	-37.42	-59.27	-14	-23.42	0
20.2	-37.65	-59.51	-14	-23.65	0
20.3	-36.80	-58.65	-14	-22.80	0
20.4	-34.53	-56.38	-14	-20.53	0
20.5	-31.44	-53.29	-14	-17.44	0
20.6	-28.35	-50.21	-14	-14.35	0
20.7	-25.61	-47.47	-14	-11.61	0
20.8	-23.26	-45.12	-14	-9.26	0
20.9	-21.26	-43.12	-14	-7.26	0
21.0	-19.57	-41.42	-14	-5.57	0
21.1	-18.13	-39.99	-14	-4.13	0
21.2	-16.93	-38.78	-14	-2.93	0
21.3	-15.92	-37.78	-14	-1.92	0
21.4	-15.10	-36.95	-14	-1.10	0
21.5	-14.43	-36.29	-14	-0.43	0
21.6	-13.91	-35.77	-14	0.09	0
21.7	-13.53	-35.39	-14	0.47	0
21.8	-13.28	-35.14	-14	0.72	0
21.9	-13.15	-35.00	-14	0.85	0
22.0	-13.13	-34.98	-14	0.87	0
22.1	-13.21	-35.06	-14	0.79	0
22.2	-13.38	-35.24	-14	0.62	0
22.3	-13.64	-35.49	-14	0.36	0
22.4	-13.96	-35.82	-14	0.04	0
22.5	-14.33	-36.19	-14	-0.33	0
22.6	-14.73	-36.59	-14	-0.73	0
22.7	-15.14	-36.99	-14	-1.14	0
22.8	-15.51	-37.37	-14	-1.51	0
22.9	-15.83	-37.69	-14	-1.83	0
23.0	-16.08	-37.94	-14	-2.08	0
23.1	-16.26	-38.11	-14	-2.26	0
23.2	-16.36	-38.21	-14	-2.36	0
23.3	-16.40	-38.25	-14	-2.40	0
23.4	-16.39	-38.25	-14	-2.39	0
23.5	-16.36	-38.22	-14	-2.36	0
23.6	-16.31	-38.17	-14	-2.31	0
23.7	-16.25	-38.10	-14	-2.25	0
23.8	-16.15	-38.01	-14	-2.15	0
23.9	-16.03	-37.88	-14	-2.03	0
24.0	-15.85	-37.71	-14	-1.85	0
24.1	-15.62	-37.48	-14	-1.62	0

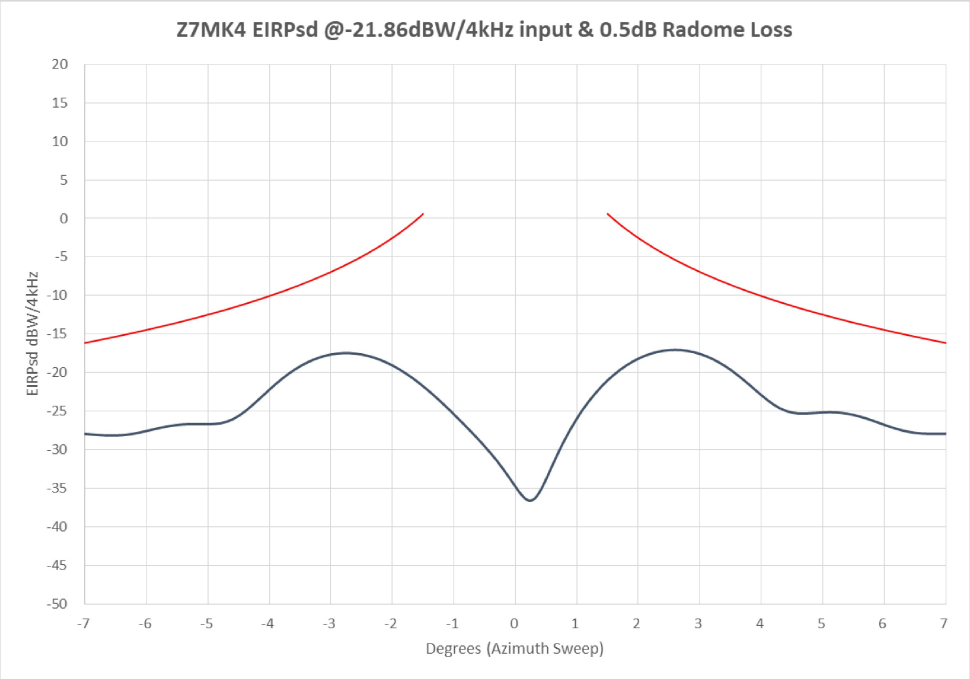
24.2	-15.33	-37.19	-14	-1.33	0
24.3	-14.99	-36.85	-14	-0.99	0
24.4	-14.61	-36.46	-14	-0.61	0
24.5	-14.20	-36.05	-14	-0.20	0
24.6	-13.79	-35.64	-14	0.21	0
24.7	-13.39	-35.24	-14	0.61	0
24.8	-13.02	-34.87	-14	0.98	0
24.9	-12.68	-34.54	-14	1.32	0
25.0	-12.39	-34.25	-14	1.61	0
25.1	-12.14	-34.00	-14	1.86	0
25.2	-11.94	-33.80	-14	2.06	0
25.3	-11.78	-33.63	-14	2.22	0
25.4	-11.65	-33.51	-14	2.35	0
25.5	-11.55	-33.41	-14	2.45	0
25.6	-11.47	-33.33	-14	2.53	0
25.7	-11.40	-33.25	-14	2.60	0
25.8	-11.32	-33.18	-14	2.68	0
25.9	-11.24	-33.09	-14	2.76	0
26.0	-11.14	-32.99	-14	2.86	0
26.1	-11.02	-32.88	-14	2.98	0
26.2	-10.90	-32.75	-14	3.10	0
26.3	-10.76	-32.62	-14	3.24	0
26.4	-10.63	-32.48	-14	3.37	0
26.5	-10.50	-32.36	-14	3.50	0
26.6	-10.39	-32.25	-14	3.61	0
26.7	-10.31	-32.17	-14	3.69	0
26.8	-10.27	-32.12	-14	3.73	0
26.9	-10.26	-32.12	-14	3.74	0
27.0	-10.31	-32.16	-14	3.69	0
27.1	-10.40	-32.25	-14	3.60	0
27.2	-10.54	-32.40	-14	3.46	0
27.3	-10.73	-32.59	-14	3.27	0
27.4	-10.98	-32.84	-14	3.02	0
27.5	-11.28	-33.13	-14	2.72	0
27.6	-11.61	-33.47	-14	2.39	0
27.7	-11.99	-33.84	-14	2.01	0
27.8	-12.39	-34.25	-14	1.61	0
27.9	-12.81	-34.67	-14	1.19	0
28.0	-13.23	-35.09	-14	0.77	0
28.1	-13.64	-35.49	-14	0.36	0
28.2	-14.02	-35.87	-14	-0.02	0
28.3	-14.34	-36.20	-14	-0.34	0
28.4	-14.61	-36.47	-14	-0.61	0
28.5	-14.80	-36.66	-14	-0.80	0
28.6	-14.92	-36.77	-14	-0.92	0
28.7	-14.95	-36.80	-14	-0.95	0
28.8	-14.90	-36.76	-14	-0.90	0
28.9	-14.78	-36.63	-14	-0.78	0
29.0	-14.59	-36.45	-14	-0.59	0
29.1	-14.35	-36.21	-14	-0.35	0

29.2	-14.06	-35.92	-14	-0.06	0
29.3	-13.74	-35.60	-14	0.26	0
29.4	-13.40	-35.26	-14	0.60	0
29.5	-13.05	-34.90	-14	0.95	0
29.6	-12.69	-34.55	-14	1.31	0
29.7	-12.35	-34.21	-14	1.65	0
29.8	-12.04	-33.89	-14	1.96	0
29.9	-11.75	-33.60	-14	2.25	0
30.0	-11.50	-33.35	-14	2.50	0

2. Maximum cross-polarized EIRP density

4) 14GHz

a) At off-axis angles from ±7° range (Tangent)



Model	Z7MK4	Min input: (@all freq.)	-21.86
Frequency	14.00 [GHz]		
GSO arc	Tangent		
EIRPsd Input	-21.81 [dBW/4kHz]		
Radome Loss	0.5 [dB]		

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-27.48	-49.29	-24.40228148	-3.08	0
-14.9	-28.87	-50.68	-24.32965671	-4.54	0
-14.8	-30.75	-52.56	-24.25654288	-6.50	0
-14.7	-33.46	-55.27	-24.18293337	-9.28	0
-14.6	-37.85	-59.66	-24.10882139	-13.74	0
-14.5	-47.19	-69.00	-24.03420006	-23.15	0
-14.4	-43.23	-65.04	-23.9590623	-19.27	0
-14.3	-35.63	-57.44	-23.88340094	-11.75	0
-14.2	-31.49	-53.30	-23.80720861	-7.69	0
-14.1	-28.69	-50.50	-23.73047782	-4.96	0
-14.0	-26.60	-48.41	-23.65320089	-2.95	0
-13.9	-24.97	-46.78	-23.57537001	-1.40	0
-13.8	-23.68	-45.49	-23.49697716	-0.18	0
-13.7	-22.63	-44.44	-23.41801418	0.79	0
-13.6	-21.79	-43.60	-23.33847271	1.54	0
-13.5	-21.13	-42.94	-23.25834421	2.13	0
-13.4	-20.62	-42.43	-23.17761996	2.56	0
-13.3	-20.24	-42.05	-23.09629102	2.86	0
-13.2	-19.98	-41.79	-23.01434828	3.04	0
-13.1	-19.82	-41.63	-22.93178239	3.11	0
-13.0	-19.77	-41.58	-22.84858381	3.08	0
-12.9	-19.79	-41.60	-22.76474276	2.97	0
-12.8	-19.87	-41.68	-22.68024924	2.81	0
-12.7	-19.99	-41.80	-22.59509302	2.60	0
-12.6	-20.12	-41.93	-22.50926363	2.39	0
-12.5	-20.20	-42.01	-22.42275033	2.22	0
-12.4	-20.20	-42.01	-22.33554213	2.14	0
-12.3	-20.07	-41.88	-22.24762779	2.17	0
-12.2	-19.80	-41.61	-22.15899577	2.36	0
-12.1	-19.37	-41.18	-22.06963426	2.70	0
-12.0	-18.83	-40.64	-21.97953115	3.15	0
-11.9	-18.19	-40.00	-21.88867403	3.70	0
-11.8	-17.51	-39.32	-21.79705018	4.28	0
-11.7	-16.83	-38.64	-21.70464654	4.88	0
-11.6	-16.15	-37.96	-21.61144973	5.46	0
-11.5	-15.52	-37.33	-21.51744601	6.00	0
-11.4	-14.93	-36.74	-21.42262128	6.50	0
-11.3	-14.39	-36.20	-21.32696109	6.94	0
-11.2	-13.91	-35.72	-21.23045057	7.32	0
-11.1	-13.48	-35.29	-21.13307447	7.65	0
-11.0	-13.11	-34.92	-21.03481713	7.93	0
-10.9	-12.79	-34.60	-20.93566245	8.15	0

-10.8	-12.52	-34.33	-20.83559389	8.31	0
-10.7	-12.30	-34.11	-20.73459444	8.43	0
-10.6	-12.13	-33.94	-20.63264663	8.50	0
-10.5	-11.99	-33.80	-20.52973248	8.54	0
-10.4	-11.89	-33.70	-20.42583348	8.54	0
-10.3	-11.81	-33.62	-20.32093062	8.51	0
-10.2	-11.75	-33.56	-20.21500429	8.46	0
-10.1	-11.71	-33.52	-20.10803434	8.40	0
-10.0	-11.66	-33.47	-20	8.34	0
-9.9	-11.60	-33.41	-19.89087986	8.29	0
-9.8	-11.53	-33.34	-19.78065189	8.25	0
-9.7	-11.43	-33.24	-19.66929336	8.24	0
-9.6	-11.29	-33.10	-19.55678083	8.27	0
-9.5	-11.11	-32.92	-19.44309013	8.33	0
-9.4	-10.90	-32.71	-19.32819634	8.43	0
-9.3	-10.65	-32.46	-19.21207371	8.57	0
-9.2	-10.36	-32.17	-19.09469568	8.74	0
-9.1	-10.05	-31.86	-18.97603481	8.93	0
-9.0	-9.71	-31.52	-18.85606274	9.14	0
-8.9	-9.37	-31.18	-18.73475017	9.36	0
-8.8	-9.02	-30.83	-18.6120668	9.59	0
-8.7	-8.68	-30.49	-18.48798132	9.81	0
-8.6	-8.34	-30.15	-18.36246128	10.02	0
-8.5	-8.02	-29.82	-18.23547314	10.22	0
-8.4	-7.71	-29.52	-18.10698215	10.40	0
-8.3	-7.42	-29.23	-17.97695231	10.56	0
-8.2	-7.15	-28.96	-17.84534631	10.69	0
-8.1	-6.91	-28.72	-17.71212547	10.80	0
-8.0	-6.69	-28.50	-17.57724967	10.88	0
-7.9	-6.51	-28.32	-17.44067728	10.94	0
-7.8	-6.35	-28.16	-17.30236507	10.96	0
-7.7	-6.22	-28.03	-17.16226813	10.94	0
-7.6	-6.12	-27.93	-17.02033981	10.90	0
-7.5	-6.06	-27.86	-16.87653158	10.82	0
-7.4	-6.02	-27.83	-16.73079299	10.71	0
-7.3	-6.01	-27.82	-16.5830715	10.57	0
-7.2	-6.03	-27.84	-16.43331241	10.40	0
-7.1	-6.07	-27.88	-16.28145872	10.21	0
-7.0	-6.13	-27.94	-16.127451	10.00	0
-6.9	-6.20	-28.00	-15.97122727	9.78	0
-6.8	-6.26	-28.07	-15.81272282	9.55	0
-6.7	-6.31	-28.12	-15.65187007	9.34	0
-6.6	-6.34	-28.15	-15.48859839	9.15	0
-6.5	-6.34	-28.15	-15.32283392	8.98	0
-6.4	-6.30	-28.11	-15.15449935	8.86	0
-6.3	-6.21	-28.02	-14.98351374	8.77	0
-6.2	-6.09	-27.90	-14.80979224	8.72	0
-6.1	-5.93	-27.74	-14.63324588	8.70	0
-6.0	-5.75	-27.56	-14.45378126	8.70	0
-5.9	-5.57	-27.37	-14.27130029	8.71	0

-5.8	-5.38	-27.19	-14.08569984	8.70	0
-5.7	-5.21	-27.02	-13.89687139	8.68	0
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-5.5	-4.96	-26.77	-13.50906724	8.55	0
-5.4	-4.89	-26.70	-13.309844	8.42	0
-5.3	-4.86	-26.67	-13.10689674	8.25	0
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-5.1	-4.86	-26.67	-12.6892544	7.82	0
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-4.9	-4.84	-26.65	-12.254902	7.41	0
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-4.7	-4.56	-26.37	-11.80244645	7.25	0
-4.6	-4.24	-26.05	-11.56894579	7.33	0
-4.5	-3.79	-25.60	-11.33031284	7.54	0
-4.4	-3.22	-25.03	-11.08631691	7.87	0
-4.3	-2.56	-24.37	-10.83671139	8.28	0
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-2.7	4.35	-17.46	-5.784094104	10.13	0
-2.6	4.29	-17.52	-5.374333699	9.66	0
-2.5	4.17	-17.64	-4.948500217	9.12	0
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-1.9	2.30	-19.51	-1.968840024	4.27	0
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-1.7	1.26	-20.54	-0.761223034	2.03	0
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-1.5	0.05	-21.76	0.597718524	-0.55	0
-1.4	-0.62	-22.43			
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-0.8	-5.19	-27.00			
-0.7	-6.02	-27.83			
-0.6	-6.87	-28.68			
-0.5	-7.74	-29.55			
-0.4	-8.66	-30.47			
-0.3	-9.63	-31.44			
-0.2	-10.68	-32.48			
-0.1	-11.80	-33.61			
0.0	-12.96	-34.77			
0.1	-14.04	-35.85			
0.2	-14.72	-36.53			
0.3	-14.60	-36.41			
0.4	-13.59	-35.39			
0.5	-12.00	-33.81			
0.6	-10.24	-32.05			
0.7	-8.52	-30.33			
0.8	-6.92	-28.73			
0.9	-5.46	-27.27			
1.0	-4.14	-25.95			
1.1	-2.94	-24.75			
1.2	-1.85	-23.66			
1.3	-0.87	-22.68			
1.4	0.02	-21.79			
1.5	0.81	-21.00	0.597718524	0.22	0
1.6	1.53	-20.28	-0.102999566	1.63	0
1.7	2.16	-19.65	-0.761223034	2.92	0
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2.0	3.63	-18.18	-2.525749892	6.16	0
2.1	3.98	-17.83	-3.055482368	7.04	0
2.2	4.27	-17.54	-3.560567021	7.83	0
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3.3	3.20	-18.61	-7.962848497	11.16	0
3.4	2.72	-19.09	-8.286972926	11.01	0
3.5	2.19	-19.62	-8.601701109	10.79	0
3.6	1.59	-20.22	-8.907562519	10.50	0
3.7	0.96	-20.85	-9.205043102	10.16	0
3.8	0.28	-21.53	-9.494589915	9.78	0
3.9	-0.41	-22.22	-9.776615176	9.37	0
4.0	-1.10	-22.90	-10.05149978	8.96	0
4.1	-1.74	-23.55	-10.31959642	8.57	0

4.2	-2.32	-24.13	-10.58123226	8.26	0
4.3	-2.80	-24.61	-10.83671139	8.04	0
4.4	-3.15	-24.96	-11.08631691	7.94	0
4.5	-3.37	-25.18	-11.33031284	7.96	0
4.6	-3.47	-25.28	-11.56894579	8.10	0
4.7	-3.49	-25.30	-11.80244645	8.31	0
4.8	-3.45	-25.26	-12.03103093	8.58	0
4.9	-3.40	-25.21	-12.254902	8.86	0
5.0	-3.35	-25.16	-12.47425011	9.13	0
5.1	-3.33	-25.14	-12.6892544	9.36	0
5.2	-3.34	-25.15	-12.90008359	9.56	0
5.3	-3.40	-25.21	-13.10689674	9.70	0
5.4	-3.51	-25.32	-13.309844	9.80	0
5.5	-3.67	-25.48	-13.50906724	9.84	0
5.6	-3.87	-25.68	-13.70470068	9.83	0
5.7	-4.11	-25.92	-13.89687139	9.79	0
5.8	-4.38	-26.18	-14.08569984	9.71	0
5.9	-4.66	-26.47	-14.27130029	9.61	0
6.0	-4.94	-26.75	-14.45378126	9.51	0
6.1	-5.22	-27.03	-14.63324588	9.41	0
6.2	-5.47	-27.28	-14.80979224	9.34	0
6.3	-5.69	-27.50	-14.98351374	9.29	0
6.4	-5.87	-27.67	-15.15449935	9.29	0
6.5	-5.99	-27.80	-15.32283392	9.33	0
6.6	-6.07	-27.88	-15.48859839	9.42	0
6.7	-6.11	-27.92	-15.65187007	9.54	0
6.8	-6.13	-27.93	-15.81272282	9.69	0
6.9	-6.12	-27.93	-15.97122727	9.85	0
7.0	-6.10	-27.91	-16.127451	10.02	0
7.1	-6.09	-27.90	-16.28145872	10.19	0
7.2	-6.09	-27.90	-16.43331241	10.34	0
7.3	-6.11	-27.92	-16.5830715	10.48	0
7.4	-6.15	-27.95	-16.73079299	10.59	0
7.5	-6.21	-28.02	-16.87653158	10.67	0
7.6	-6.31	-28.11	-17.02033981	10.71	0
7.7	-6.43	-28.24	-17.16226813	10.73	0
7.8	-6.58	-28.39	-17.30236507	10.72	0
7.9	-6.76	-28.57	-17.44067728	10.68	0
8.0	-6.97	-28.78	-17.57724967	10.61	0
8.1	-7.21	-29.01	-17.71212547	10.51	0
8.2	-7.46	-29.27	-17.84534631	10.38	0
8.3	-7.74	-29.55	-17.97695231	10.24	0
8.4	-8.03	-29.84	-18.10698215	10.08	0
8.5	-8.33	-30.14	-18.23547314	9.90	0
8.6	-8.64	-30.45	-18.36246128	9.72	0
8.7	-8.95	-30.76	-18.48798132	9.53	0
8.8	-9.26	-31.07	-18.6120668	9.36	0
8.9	-9.55	-31.36	-18.73475017	9.19	0
9.0	-9.82	-31.63	-18.85606274	9.04	0
9.1	-10.06	-31.87	-18.97603481	8.92	0

9.2	-10.27	-32.08	-19.09469568	8.83	0
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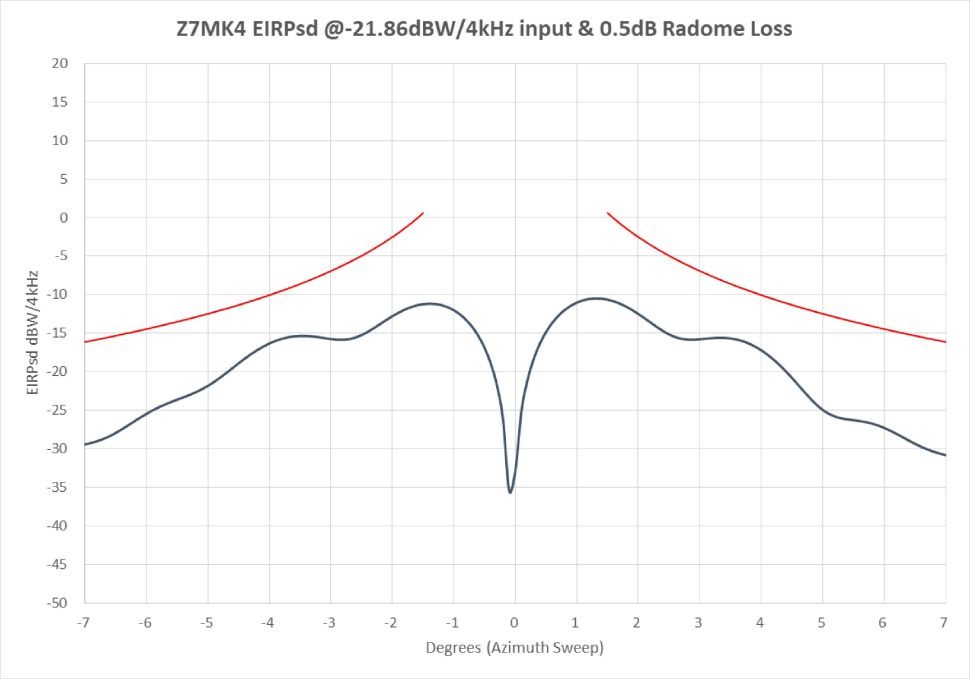
9.4	-10.58	-32.39	-19.32819634	8.75	0
9.5	-10.67	-32.48	-19.44309013	8.77	0
9.6	-10.74	-32.55	-19.55678083	8.82	0
9.7	-10.78	-32.59	-19.66929336	8.89	0
9.8	-10.79	-32.60	-19.78065189	8.99	0
9.9	-10.80	-32.61	-19.89087986	9.09	0
10.0	-10.80	-32.61	-20	9.20	0
10.1	-10.81	-32.62	-20.10803434	9.30	0
10.2	-10.83	-32.64	-20.21500429	9.38	0
10.3	-10.87	-32.68	-20.32093062	9.45	0
10.4	-10.94	-32.75	-20.42583348	9.48	0
10.5	-11.05	-32.86	-20.52973248	9.48	0
10.6	-11.19	-33.00	-20.63264663	9.44	0
10.7	-11.37	-33.18	-20.73459444	9.36	0
10.8	-11.61	-33.41	-20.83559389	9.23	0
10.9	-11.89	-33.70	-20.93566245	9.05	0
11.0	-12.23	-34.04	-21.03481713	8.81	0
11.1	-12.63	-34.44	-21.13307447	8.51	0
11.2	-13.08	-34.89	-21.23045057	8.15	0
11.3	-13.61	-35.41	-21.32696109	7.72	0
11.4	-14.19	-36.00	-21.42262128	7.23	0
11.5	-14.83	-36.64	-21.51744601	6.68	0
11.6	-15.54	-37.35	-21.61144973	6.08	0
11.7	-16.29	-38.09	-21.70464654	5.42	0
11.8	-17.07	-38.88	-21.79705018	4.73	0
11.9	-17.86	-39.67	-21.88867403	4.03	0
12.0	-18.63	-40.44	-21.97953115	3.35	0
12.1	-19.35	-41.16	-22.06963426	2.72	0
12.2	-19.97	-41.78	-22.15899577	2.19	0
12.3	-20.47	-42.28	-22.24762779	1.77	0
12.4	-20.86	-42.67	-22.33554213	1.48	0
12.5	-21.15	-42.96	-22.42275033	1.28	0
12.6	-21.38	-43.18	-22.50926363	1.13	0
12.7	-21.60	-43.40	-22.59509302	1.00	0
12.8	-21.85	-43.66	-22.68024924	0.83	0
12.9	-22.19	-44.00	-22.76474276	0.57	0
13.0	-22.65	-44.46	-22.84858381	0.20	0
13.1	-23.26	-45.07	-22.93178239	-0.33	0
13.2	-24.05	-45.86	-23.01434828	-1.04	0
13.3	-25.05	-46.86	-23.09629102	-1.96	0
13.4	-26.28	-48.09	-23.17761996	-3.10	0
13.5	-27.72	-49.53	-23.25834421	-4.47	0
13.6	-29.25	-51.06	-23.33847271	-5.92	0
13.7	-30.47	-52.28	-23.41801418	-7.05	0
13.8	-30.72	-52.53	-23.49697716	-7.22	0
13.9	-29.82	-51.63	-23.57537001	-6.25	0
14.0	-28.35	-50.16	-23.65320089	-4.70	0
14.1	-26.85	-48.65	-23.73047782	-3.11	0

14.2	-25.53	-47.34	-23.80720861	-1.72	0
14.3	-24.45	-46.26	-23.88340094	-0.57	0
14.4	-23.61	-45.42	-23.9590623	0.35	0
14.5	-22.97	-44.78	-24.03420006	1.06	0
14.6	-22.53	-44.34	-24.10882139	1.58	0
14.7	-22.26	-44.07	-24.18293337	1.92	0
14.8	-22.16	-43.97	-24.25654288	2.10	0
14.9	-22.20	-44.01	-24.32965671	2.13	0
15.0	-22.37	-44.18	-24.40228148	2.03	0

6) 14.5GHz

a) At off-axis angles from ±7° range (Tangent)



Model	Z7MK4	Min input: (@all freq.)	-21.86
Frequency	14.50 [GHz]		
GSO arc	Tangent		
EIRPsd Input	-21.86 [dBW/4kHz]		
Radome Loss	0.5 [dB]		

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-12.69	-34.54	-24.40228148	11.71	0
-14.9	-12.69	-34.55	-24.32965671	11.64	0
-14.8	-12.71	-34.56	-24.25654288	11.55	0
-14.7	-12.74	-34.59	-24.18293337	11.44	0
-14.6	-12.79	-34.64	-24.10882139	11.32	0
-14.5	-12.86	-34.71	-24.03420006	11.18	0
-14.4	-12.95	-34.81	-23.9590623	11.01	0
-14.3	-13.06	-34.92	-23.88340094	10.82	0
-14.2	-13.20	-35.06	-23.80720861	10.60	0
-14.1	-13.37	-35.23	-23.73047782	10.36	0
-14.0	-13.57	-35.43	-23.65320089	10.08	0
-13.9	-13.80	-35.66	-23.57537001	9.77	0
-13.8	-14.06	-35.92	-23.49697716	9.44	0
-13.7	-14.35	-36.21	-23.41801418	9.07	0
-13.6	-14.67	-36.52	-23.33847271	8.67	0
-13.5	-15.01	-36.86	-23.25834421	8.25	0
-13.4	-15.37	-37.22	-23.17761996	7.81	0
-13.3	-15.74	-37.60	-23.09629102	7.36	0
-13.2	-16.12	-37.98	-23.01434828	6.89	0
-13.1	-16.51	-38.37	-22.93178239	6.42	0
-13.0	-16.90	-38.76	-22.84858381	5.95	0
-12.9	-17.30	-39.16	-22.76474276	5.46	0
-12.8	-17.71	-39.57	-22.68024924	4.97	0
-12.7	-18.14	-40.00	-22.59509302	4.45	0
-12.6	-18.61	-40.46	-22.50926363	3.90	0
-12.5	-19.12	-40.98	-22.42275033	3.30	0
-12.4	-19.70	-41.55	-22.33554213	2.64	0
-12.3	-20.35	-42.20	-22.24762779	1.90	0
-12.2	-21.08	-42.94	-22.15899577	1.08	0
-12.1	-21.88	-43.74	-22.06963426	0.19	0
-12.0	-22.71	-44.56	-21.97953115	-0.73	0
-11.9	-23.44	-45.30	-21.88867403	-1.55	0
-11.8	-23.91	-45.77	-21.79705018	-2.12	0
-11.7	-23.94	-45.79	-21.70464654	-2.23	0
-11.6	-23.45	-45.31	-21.61144973	-1.84	0
-11.5	-22.59	-44.44	-21.51744601	-1.07	0
-11.4	-21.55	-43.41	-21.42262128	-0.13	0
-11.3	-20.51	-42.36	-21.32696109	0.82	0
-11.2	-19.54	-41.40	-21.23045057	1.69	0
-11.1	-18.70	-40.56	-21.13307447	2.43	0
-11.0	-18.01	-39.87	-21.03481713	3.03	0
-10.9	-17.46	-39.32	-20.93566245	3.47	0

-10.8	-17.06	-38.92	-20.83559389	3.78	0
-10.7	-16.80	-38.66	-20.73459444	3.93	0
-10.6	-16.69	-38.55	-20.63264663	3.94	0
-10.5	-16.72	-38.57	-20.52973248	3.81	0
-10.4	-16.88	-38.74	-20.42583348	3.55	0
-10.3	-17.18	-39.03	-20.32093062	3.14	0
-10.2	-17.60	-39.46	-20.21500429	2.61	0
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-10.0	-18.76	-40.62	-20	1.24	0
-9.9	-19.42	-41.28	-19.89087986	0.47	0
-9.8	-20.04	-41.90	-19.78065189	-0.26	0
-9.7	-20.52	-42.37	-19.66929336	-0.85	0
-9.6	-20.75	-42.61	-19.55678083	-1.20	0
-9.5	-20.71	-42.56	-19.44309013	-1.26	0
-9.4	-20.40	-42.26	-19.32819634	-1.08	0
-9.3	-19.94	-41.79	-19.21207371	-0.73	0
-9.2	-19.40	-41.25	-19.09469568	-0.30	0
-9.1	-18.85	-40.71	-18.97603481	0.13	0
-9.0	-18.32	-40.18	-18.85606274	0.53	0
-8.9	-17.81	-39.67	-18.73475017	0.92	0
-8.8	-17.31	-39.16	-18.6120668	1.30	0
-8.7	-16.78	-38.63	-18.48798132	1.71	0
-8.6	-16.19	-38.05	-18.36246128	2.17	0
-8.5	-15.54	-37.39	-18.23547314	2.70	0
-8.4	-14.81	-36.67	-18.10698215	3.30	0
-8.3	-14.03	-35.89	-17.97695231	3.95	0
-8.2	-13.22	-35.08	-17.84534631	4.62	0
-8.1	-12.42	-34.28	-17.71212547	5.29	0
-8.0	-11.65	-33.51	-17.57724967	5.93	0
-7.9	-10.93	-32.79	-17.44067728	6.51	0
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-6.5	-6.07	-27.93	-15.32283392	9.25	0
-6.4	-5.60	-27.46	-15.15449935	9.56	0
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-5.8	-2.75	-24.60	-14.08569984	11.34	0
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-5.5	-1.75	-23.61	-13.50906724	11.76	0
-5.4	-1.46	-23.31	-13.309844	11.85	0
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-0.3	0.06	-21.79			
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0.0	-10.90	-32.76			
0.1	-3.18	-25.03			
0.2	0.88	-20.98			
0.3	3.57	-18.29			
0.4	5.53	-16.33			
0.5	7.03	-14.83			
0.6	8.20	-13.66			
0.7	9.13	-12.73			
0.8	9.86	-12.00			
0.9	10.42	-11.44			
1.0	10.84	-11.02			
1.1	11.13	-10.73			
1.2	11.31	-10.55			
1.3	11.37	-10.48			
1.4	11.34	-10.52			
1.5	11.21	-10.64	0.597718524	10.61	0
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3.0	6.08	-15.78	-6.928031368	13.01	0
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3.7	5.82	-16.03	-9.205043102	15.03	0
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3.9	5.13	-16.73	-9.776615176	14.90	0
4.0	4.65	-17.21	-10.05149978	14.70	0
4.1	4.09	-17.77	-10.31959642	14.41	0

4.2	3.44	-18.42	-10.58123226	14.02	0
4.3	2.71	-19.14	-10.83671139	13.55	0
4.4	1.91	-19.94	-11.08631691	13.00	0
4.5	1.05	-20.80	-11.33031284	12.38	0
4.6	0.15	-21.70	-11.56894579	11.72	0
4.7	-0.76	-22.61	-11.80244645	11.05	0
4.8	-1.63	-23.49	-12.03103093	10.40	0
4.9	-2.43	-24.28	-12.254902	9.83	0
5.0	-3.10	-24.95	-12.47425011	9.38	0
5.1	-3.61	-25.46	-12.6892544	9.08	0
5.2	-3.96	-25.81	-12.90008359	8.94	0
5.3	-4.18	-26.03	-13.10689674	8.93	0
5.4	-4.32	-26.17	-13.309844	8.99	0
5.5	-4.42	-26.27	-13.50906724	9.09	0
5.6	-4.53	-26.38	-13.70470068	9.18	0
5.7	-4.67	-26.52	-13.89687139	9.23	0
5.8	-4.86	-26.72	-14.08569984	9.22	0
5.9	-5.11	-26.97	-14.27130029	9.16	0
6.0	-5.43	-27.28	-14.45378126	9.03	0
6.1	-5.79	-27.65	-14.63324588	8.84	0
6.2	-6.20	-28.05	-14.80979224	8.61	0
6.3	-6.63	-28.49	-14.98351374	8.35	0
6.4	-7.07	-28.92	-15.15449935	8.09	0
6.5	-7.49	-29.34	-15.32283392	7.84	0
6.6	-7.87	-29.73	-15.48859839	7.62	0
6.7	-8.21	-30.07	-15.65187007	7.44	0
6.8	-8.50	-30.35	-15.81272282	7.31	0
6.9	-8.74	-30.60	-15.97122727	7.23	0
7.0	-8.96	-30.82	-16.127451	7.17	0
7.1	-9.17	-31.03	-16.28145872	7.11	0
7.2	-9.40	-31.26	-16.43331241	7.03	0
7.3	-9.66	-31.52	-16.5830715	6.92	0
7.4	-9.98	-31.84	-16.73079299	6.75	0
7.5	-10.38	-32.23	-16.87653158	6.50	0
7.6	-10.85	-32.71	-17.02033981	6.17	0
7.7	-11.42	-33.27	-17.16226813	5.75	0
7.8	-12.08	-33.93	-17.30236507	5.22	0
7.9	-12.84	-34.70	-17.44067728	4.60	0
8.0	-13.69	-35.55	-17.57724967	3.88	0
8.1	-14.63	-36.49	-17.71212547	3.08	0
8.2	-15.63	-37.48	-17.84534631	2.22	0
8.3	-16.63	-38.49	-17.97695231	1.34	0
8.4	-17.59	-39.45	-18.10698215	0.52	0
8.5	-18.42	-40.27	-18.23547314	-0.18	0
8.6	-19.05	-40.90	-18.36246128	-0.68	0
8.7	-19.44	-41.30	-18.48798132	-0.95	0
8.8	-19.63	-41.49	-18.6120668	-1.02	0
8.9	-19.68	-41.54	-18.73475017	-0.95	0
9.0	-19.66	-41.52	-18.85606274	-0.81	0
9.1	-19.62	-41.48	-18.97603481	-0.65	0

9.2	-19.59	-41.45	-19.09469568	-0.50	0
9.3	-19.57	-41.42	-19.21207371	-0.36	0
9.4	-19.54	-41.39	-19.32819634	-0.21	0
9.5	-19.47	-41.32	-19.44309013	-0.02	0
9.6	-19.34	-41.19	-19.55678083	0.22	0
9.7	-19.13	-40.98	-19.66929336	0.54	0
9.8	-18.84	-40.69	-19.78065189	0.94	0
9.9	-18.49	-40.35	-19.89087986	1.40	0
10.0	-18.13	-39.98	-20	1.87	0
10.1	-17.77	-39.62	-20.10803434	2.34	0
10.2	-17.45	-39.31	-20.21500429	2.76	0
10.3	-17.21	-39.06	-20.32093062	3.12	0
10.4	-17.05	-38.90	-20.42583348	3.38	0
10.5	-16.99	-38.85	-20.52973248	3.54	0
10.6	-17.05	-38.91	-20.63264663	3.58	0
10.7	-17.24	-39.09	-20.73459444	3.50	0
10.8	-17.55	-39.41	-20.83559389	3.28	0
10.9	-18.00	-39.86	-20.93566245	2.93	0
11.0	-18.59	-40.45	-21.03481713	2.44	0
11.1	-19.31	-41.17	-21.13307447	1.82	0
11.2	-20.15	-42.01	-21.23045057	1.08	0
11.3	-21.08	-42.93	-21.32696109	0.25	0
11.4	-22.02	-43.88	-21.42262128	-0.60	0
11.5	-22.88	-44.74	-21.51744601	-1.36	0
11.6	-23.50	-45.36	-21.61144973	-1.89	0
11.7	-23.79	-45.64	-21.70464654	-2.08	0
11.8	-23.73	-45.59	-21.79705018	-1.93	0
11.9	-23.45	-45.30	-21.88867403	-1.56	0
12.0	-23.07	-44.93	-21.97953115	-1.09	0
12.1	-22.74	-44.59	-22.06963426	-0.67	0
12.2	-22.50	-44.36	-22.15899577	-0.34	0
12.3	-22.41	-44.27	-22.24762779	-0.17	0
12.4	-22.49	-44.34	-22.33554213	-0.15	0
12.5	-22.72	-44.57	-22.42275033	-0.30	0
12.6	-23.09	-44.95	-22.50926363	-0.58	0
12.7	-23.56	-45.42	-22.59509302	-0.96	0
12.8	-24.04	-45.89	-22.68024924	-1.36	0
12.9	-24.40	-46.25	-22.76474276	-1.63	0
13.0	-24.47	-46.33	-22.84858381	-1.63	0
13.1	-24.17	-46.03	-22.93178239	-1.24	0
13.2	-23.53	-45.38	-23.01434828	-0.51	0
13.3	-22.66	-44.52	-23.09629102	0.43	0
13.4	-21.73	-43.59	-23.17761996	1.45	0
13.5	-20.83	-42.69	-23.25834421	2.43	0
13.6	-20.02	-41.88	-23.33847271	3.32	0
13.7	-19.33	-41.18	-23.41801418	4.09	0
13.8	-18.76	-40.62	-23.49697716	4.74	0
13.9	-18.31	-40.17	-23.57537001	5.26	0
14.0	-17.98	-39.84	-23.65320089	5.67	0
14.1	-17.76	-39.61	-23.73047782	5.97	0

14.2	-17.63	-39.49	-23.80720861	6.17	0
14.3	-17.60	-39.46	-23.88340094	6.28	0
14.4	-17.64	-39.50	-23.9590623	6.32	0
14.5	-17.74	-39.60	-24.03420006	6.29	0
14.6	-17.89	-39.75	-24.10882139	6.22	0
14.7	-18.08	-39.93	-24.18293337	6.11	0
14.8	-18.28	-40.13	-24.25654288	5.98	0
14.9	-18.48	-40.34	-24.32965671	5.85	0
15.0	-18.67	-40.53	-24.40228148	5.73	0

2. Maximum cross-polarized EIRP density

4) 14GHz

b) At off-axis angles from ±7° range (Perpendicular)

Model	Z7MK4		Min input: (@all freq.) -21.86
Frequency	14.00	[GHz]	
GSO arc	Perpendicular		
EIRPsd Input	-21.81	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-19.97	-41.78	-24.40228148	4.44	0
-14.9	-20.56	-42.37	-24.32965671	3.77	0
-14.8	-21.18	-42.99	-24.25654288	3.07	0
-14.7	-21.83	-43.64	-24.18293337	2.36	0
-14.6	-22.47	-44.28	-24.10882139	1.63	0
-14.5	-23.11	-44.92	-24.03420006	0.93	0
-14.4	-23.71	-45.52	-23.9590623	0.25	0
-14.3	-24.27	-46.08	-23.88340094	-0.39	0
-14.2	-24.77	-46.58	-23.80720861	-0.96	0
-14.1	-25.19	-47.00	-23.73047782	-1.46	0
-14.0	-25.55	-47.36	-23.65320089	-1.90	0
-13.9	-25.84	-47.65	-23.57537001	-2.27	0
-13.8	-26.07	-47.88	-23.49697716	-2.57	0
-13.7	-26.24	-48.05	-23.41801418	-2.82	0
-13.6	-26.36	-48.17	-23.33847271	-3.03	0
-13.5	-26.45	-48.26	-23.25834421	-3.19	0
-13.4	-26.51	-48.32	-23.17761996	-3.33	0
-13.3	-26.56	-48.36	-23.09629102	-3.46	0
-13.2	-26.60	-48.41	-23.01434828	-3.58	0
-13.1	-26.65	-48.46	-22.93178239	-3.72	0
-13.0	-26.72	-48.53	-22.84858381	-3.87	0
-12.9	-26.82	-48.63	-22.76474276	-4.05	0
-12.8	-26.94	-48.75	-22.68024924	-4.26	0
-12.7	-27.06	-48.87	-22.59509302	-4.46	0
-12.6	-27.13	-48.94	-22.50926363	-4.62	0
-12.5	-27.10	-48.91	-22.42275033	-4.68	0
-12.4	-26.88	-48.69	-22.33554213	-4.54	0
-12.3	-26.40	-48.21	-22.24762779	-4.15	0
-12.2	-25.66	-47.47	-22.15899577	-3.50	0
-12.1	-24.69	-46.50	-22.06963426	-2.62	0
-12.0	-23.58	-45.39	-21.97953115	-1.60	0
-11.9	-22.43	-44.23	-21.88867403	-0.54	0
-11.8	-21.28	-43.09	-21.79705018	0.52	0
-11.7	-20.18	-41.99	-21.70464654	1.52	0
-11.6	-19.16	-40.97	-21.61144973	2.45	0
-11.5	-18.23	-40.04	-21.51744601	3.29	0
-11.4	-17.38	-39.19	-21.42262128	4.04	0
-11.3	-16.63	-38.44	-21.32696109	4.70	0
-11.2	-15.96	-37.77	-21.23045057	5.27	0
-11.1	-15.38	-37.19	-21.13307447	5.75	0
-11.0	-14.89	-36.70	-21.03481713	6.15	0
-10.9	-14.47	-36.28	-20.93566245	6.47	0

-10.8	-14.13	-35.94	-20.83559389	6.71	0
-10.7	-13.85	-35.66	-20.73459444	6.88	0
-10.6	-13.64	-35.45	-20.63264663	6.99	0
-10.5	-13.49	-35.30	-20.52973248	7.04	0
-10.4	-13.38	-35.19	-20.42583348	7.04	0
-10.3	-13.32	-35.13	-20.32093062	7.00	0
-10.2	-13.29	-35.10	-20.21500429	6.92	0
-10.1	-13.28	-35.09	-20.10803434	6.82	0
-10.0	-13.29	-35.09	-20	6.71	0
-9.9	-13.28	-35.09	-19.89087986	6.61	0
-9.8	-13.26	-35.07	-19.78065189	6.52	0
-9.7	-13.22	-35.03	-19.66929336	6.45	0
-9.6	-13.14	-34.95	-19.55678083	6.42	0
-9.5	-13.02	-34.83	-19.44309013	6.42	0
-9.4	-12.87	-34.67	-19.32819634	6.46	0
-9.3	-12.67	-34.48	-19.21207371	6.54	0
-9.2	-12.45	-34.26	-19.09469568	6.64	0
-9.1	-12.21	-34.02	-18.97603481	6.77	0
-9.0	-11.95	-33.76	-18.85606274	6.91	0
-8.9	-11.68	-33.49	-18.73475017	7.05	0
-8.8	-11.41	-33.22	-18.6120668	7.20	0
-8.7	-11.14	-32.95	-18.48798132	7.34	0
-8.6	-10.88	-32.69	-18.36246128	7.48	0
-8.5	-10.62	-32.43	-18.23547314	7.62	0
-8.4	-10.36	-32.17	-18.10698215	7.74	0
-8.3	-10.12	-31.93	-17.97695231	7.86	0
-8.2	-9.88	-31.69	-17.84534631	7.97	0
-8.1	-9.65	-31.46	-17.71212547	8.06	0
-8.0	-9.44	-31.25	-17.57724967	8.14	0
-7.9	-9.23	-31.04	-17.44067728	8.21	0
-7.8	-9.05	-30.86	-17.30236507	8.25	0
-7.7	-8.89	-30.69	-17.16226813	8.28	0
-7.6	-8.74	-30.55	-17.02033981	8.28	0
-7.5	-8.62	-30.43	-16.87653158	8.25	0
-7.4	-8.53	-30.34	-16.73079299	8.20	0
-7.3	-8.45	-30.26	-16.5830715	8.13	0
-7.2	-8.40	-30.21	-16.43331241	8.03	0
-7.1	-8.37	-30.18	-16.28145872	7.92	0
-7.0	-8.34	-30.15	-16.127451	7.79	0
-6.9	-8.31	-30.12	-15.97122727	7.66	0
-6.8	-8.28	-30.09	-15.81272282	7.53	0
-6.7	-8.23	-30.04	-15.65187007	7.42	0
-6.6	-8.15	-29.96	-15.48859839	7.34	0
-6.5	-8.04	-29.85	-15.32283392	7.28	0
-6.4	-7.90	-29.71	-15.15449935	7.26	0
-6.3	-7.72	-29.53	-14.98351374	7.26	0
-6.2	-7.53	-29.34	-14.80979224	7.28	0
-6.1	-7.32	-29.13	-14.63324588	7.31	0
-6.0	-7.12	-28.93	-14.45378126	7.34	0
-5.9	-6.93	-28.74	-14.27130029	7.34	0

-5.8	-6.78	-28.59	-14.08569984	7.30	0
-5.7	-6.67	-28.48	-13.89687139	7.22	0
-5.6	-6.62	-28.43	-13.70470068	7.08	0
-5.5	-6.63	-28.44	-13.50906724	6.88	0
-5.4	-6.69	-28.50	-13.309844	6.62	0
-5.3	-6.81	-28.62	-13.10689674	6.29	0
-5.2	-6.97	-28.78	-12.90008359	5.93	0
-5.1	-7.12	-28.93	-12.6892544	5.57	0
-5.0	-7.23	-29.04	-12.47425011	5.25	0
-4.9	-7.22	-29.03	-12.254902	5.04	0
-4.8	-7.01	-28.82	-12.03103093	5.02	0
-4.7	-6.57	-28.38	-11.80244645	5.23	0
-4.6	-5.90	-27.71	-11.56894579	5.67	0
-4.5	-5.04	-26.85	-11.33031284	6.29	0
-4.4	-4.07	-25.88	-11.08631691	7.02	0
-4.3	-3.05	-24.86	-10.83671139	7.78	0
-4.2	-2.05	-23.86	-10.58123226	8.54	0
-4.1	-1.08	-22.89	-10.31959642	9.24	0
-4.0	-0.18	-21.99	-10.05149978	9.87	0
-3.9	0.65	-21.16	-9.776615176	10.42	0
-3.8	1.40	-20.41	-9.494589915	10.89	0
-3.7	2.07	-19.74	-9.205043102	11.27	0
-3.6	2.66	-19.15	-8.907562519	11.57	0
-3.5	3.18	-18.63	-8.601701109	11.78	0
-3.4	3.62	-18.19	-8.286972926	11.91	0
-3.3	3.99	-17.82	-7.962848497	11.95	0
-3.2	4.29	-17.52	-7.628749458	11.92	0
-3.1	4.51	-17.30	-7.284042346	11.80	0
-3.0	4.67	-17.14	-6.928031368	11.60	0
-2.9	4.75	-17.06	-6.559949947	11.31	0
-2.8	4.77	-17.04	-6.178950784	10.95	0
-2.7	4.72	-17.09	-5.784094104	10.50	0
-2.6	4.59	-17.22	-5.374333699	9.96	0
-2.5	4.39	-17.42	-4.948500217	9.34	0
-2.4	4.12	-17.69	-4.505281043	8.63	0
-2.3	3.77	-18.04	-4.0431959	7.81	0
-2.2	3.34	-18.47	-3.560567021	6.90	0
-2.1	2.82	-18.99	-3.055482368	5.88	0
-2.0	2.21	-19.60	-2.525749892	4.74	0
-1.9	1.50	-20.31	-1.968840024	3.47	0
-1.8	0.67	-21.14	-1.381812628	2.05	0
-1.7	-0.29	-22.10	-0.761223034	0.47	0
-1.6	-1.40	-23.21	-0.102999566	-1.30	0
-1.5	-2.70	-24.50	0.597718524	-3.29	0
-1.4	-4.23	-26.04			
-1.3	-6.07	-27.88			
-1.2	-8.37	-30.18			
-1.1	-11.38	-33.19			
-1.0	-15.74	-37.55			
-0.9	-23.10	-44.91			

-0.8	-23.51	-45.32			
-0.7	-16.56	-38.37			
-0.6	-12.65	-34.46			
-0.5	-10.08	-31.89			
-0.4	-8.22	-30.03			
-0.3	-6.79	-28.60			
-0.2	-5.65	-27.46			
-0.1	-4.72	-26.53			
0.0	-3.94	-25.75			
0.1	-3.28	-25.08			
0.2	-2.70	-24.51			
0.3	-2.18	-23.99			
0.4	-1.72	-23.53			
0.5	-1.30	-23.11			
0.6	-0.91	-22.72			
0.7	-0.54	-22.35			
0.8	-0.18	-21.99			
0.9	0.16	-21.65			
1.0	0.49	-21.31			
1.1	0.82	-20.99			
1.2	1.15	-20.66			
1.3	1.47	-20.34			
1.4	1.79	-20.02			
1.5	2.10	-19.71	0.597718524	1.50	0
1.6	2.40	-19.41	-0.102999566	2.50	0
1.7	2.69	-19.12	-0.761223034	3.45	0
1.8	2.97	-18.84	-1.381812628	4.35	0
1.9	3.24	-18.57	-1.968840024	5.20	0
2.0	3.48	-18.33	-2.525749892	6.00	0
2.1	3.70	-18.11	-3.055482368	6.75	0
2.2	3.89	-17.92	-3.560567021	7.45	0
2.3	4.05	-17.76	-4.0431959	8.10	0
2.4	4.18	-17.63	-4.505281043	8.69	0
2.5	4.27	-17.54	-4.948500217	9.22	0
2.6	4.33	-17.48	-5.374333699	9.70	0
2.7	4.34	-17.47	-5.784094104	10.12	0
2.8	4.31	-17.50	-6.178950784	10.49	0
2.9	4.23	-17.58	-6.559949947	10.79	0
3.0	4.10	-17.71	-6.928031368	11.03	0
3.1	3.92	-17.89	-7.284042346	11.20	0
3.2	3.68	-18.13	-7.628749458	11.31	0
3.3	3.39	-18.42	-7.962848497	11.35	0
3.4	3.03	-18.77	-8.286972926	11.32	0
3.5	2.62	-19.19	-8.601701109	11.22	0
3.6	2.13	-19.68	-8.907562519	11.04	0
3.7	1.57	-20.24	-9.205043102	10.78	0
3.8	0.94	-20.87	-9.494589915	10.44	0
3.9	0.23	-21.58	-9.776615176	10.01	0
4.0	-0.56	-22.37	-10.05149978	9.49	0
4.1	-1.44	-23.25	-10.31959642	8.88	0

4.2	-2.41	-24.22	-10.58123226	8.17	0
4.3	-3.46	-25.27	-10.83671139	7.38	0
4.4	-4.59	-26.40	-11.08631691	6.50	0
4.5	-5.78	-27.58	-11.33031284	5.56	0
4.6	-6.97	-28.78	-11.56894579	4.60	0
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4.8	-9.07	-30.88	-12.03103093	2.96	0
4.9	-9.77	-31.58	-12.254902	2.49	0
5.0	-10.13	-31.94	-12.47425011	2.35	0
5.1	-10.19	-32.00	-12.6892544	2.50	0
5.2	-10.04	-31.85	-12.90008359	2.86	0
5.3	-9.80	-31.61	-13.10689674	3.31	0
5.4	-9.54	-31.35	-13.309844	3.77	0
5.5	-9.34	-31.14	-13.50906724	4.17	0
5.6	-9.19	-31.00	-13.70470068	4.51	0
5.7	-9.13	-30.94	-13.89687139	4.76	0
5.8	-9.14	-30.95	-14.08569984	4.94	0
5.9	-9.22	-31.03	-14.27130029	5.05	0
6.0	-9.36	-31.16	-14.45378126	5.10	0
6.1	-9.52	-31.33	-14.63324588	5.11	0
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6.3	-9.87	-31.68	-14.98351374	5.12	0
6.4	-10.00	-31.81	-15.15449935	5.15	0
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6.7	-10.09	-31.90	-15.65187007	5.56	0
6.8	-10.01	-31.82	-15.81272282	5.80	0
6.9	-9.89	-31.70	-15.97122727	6.08	0
7.0	-9.75	-31.56	-16.127451	6.38	0
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7.3	-9.34	-31.15	-16.5830715	7.24	0
7.4	-9.26	-31.07	-16.73079299	7.47	0
7.5	-9.20	-31.01	-16.87653158	7.67	0
7.6	-9.19	-30.99	-17.02033981	7.83	0
7.7	-9.21	-31.02	-17.16226813	7.96	0
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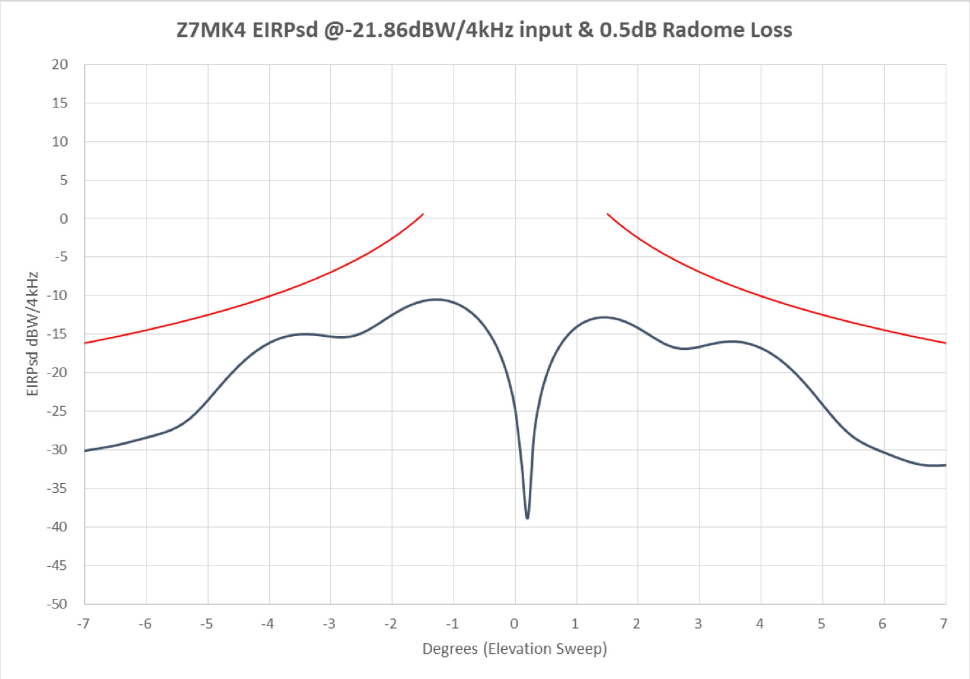
8.0	-9.49	-31.30	-17.57724967	8.09	0
8.1	-9.65	-31.46	-17.71212547	8.07	0
8.2	-9.83	-31.64	-17.84534631	8.01	0
8.3	-10.05	-31.85	-17.97695231	7.93	0
8.4	-10.28	-32.09	-18.10698215	7.83	0
8.5	-10.53	-32.34	-18.23547314	7.70	0
8.6	-10.80	-32.61	-18.36246128	7.56	0
8.7	-11.08	-32.89	-18.48798132	7.41	0
8.8	-11.37	-33.18	-18.6120668	7.24	0
8.9	-11.66	-33.46	-18.73475017	7.08	0
9.0	-11.94	-33.75	-18.85606274	6.92	0
9.1	-12.21	-34.02	-18.97603481	6.76	0

9.2	-12.47	-34.27	-19.09469568	6.63	0
9.3	-12.69	-34.50	-19.21207371	6.52	0
9.4	-12.89	-34.70	-19.32819634	6.44	0
9.5	-13.05	-34.86	-19.44309013	6.40	0
9.6	-13.17	-34.98	-19.55678083	6.39	0
9.7	-13.25	-35.06	-19.66929336	6.42	0
9.8	-13.31	-35.12	-19.78065189	6.47	0
9.9	-13.34	-35.15	-19.89087986	6.55	0
10.0	-13.37	-35.18	-20	6.63	0
10.1	-13.39	-35.20	-20.10803434	6.71	0
10.2	-13.43	-35.24	-20.21500429	6.78	0
10.3	-13.50	-35.31	-20.32093062	6.82	0
10.4	-13.60	-35.41	-20.42583348	6.83	0
10.5	-13.75	-35.56	-20.52973248	6.78	0
10.6	-13.94	-35.75	-20.63264663	6.69	0
10.7	-14.20	-36.01	-20.73459444	6.53	0
10.8	-14.53	-36.34	-20.83559389	6.31	0
10.9	-14.93	-36.74	-20.93566245	6.01	0
11.0	-15.40	-37.21	-21.03481713	5.63	0
11.1	-15.96	-37.77	-21.13307447	5.17	0
11.2	-16.61	-38.42	-21.23045057	4.62	0
11.3	-17.36	-39.17	-21.32696109	3.97	0
11.4	-18.20	-40.01	-21.42262128	3.22	0
11.5	-19.15	-40.96	-21.51744601	2.36	0
11.6	-20.21	-42.02	-21.61144973	1.40	0
11.7	-21.38	-43.19	-21.70464654	0.32	0
11.8	-22.65	-44.46	-21.79705018	-0.86	0
11.9	-24.00	-45.81	-21.88867403	-2.11	0
12.0	-25.35	-47.16	-21.97953115	-3.37	0
12.1	-26.61	-48.42	-22.06963426	-4.54	0
12.2	-27.62	-49.43	-22.15899577	-5.46	0
12.3	-28.23	-50.04	-22.24762779	-5.98	0
12.4	-28.40	-50.21	-22.33554213	-6.07	0
12.5	-28.24	-50.04	-22.42275033	-5.81	0
12.6	-27.89	-49.70	-22.50926363	-5.38	0
12.7	-27.50	-49.31	-22.59509302	-4.91	0
12.8	-27.14	-48.95	-22.68024924	-4.46	0
12.9	-26.85	-48.66	-22.76474276	-4.08	0
13.0	-26.63	-48.44	-22.84858381	-3.78	0
13.1	-26.47	-48.28	-22.93178239	-3.54	0
13.2	-26.38	-48.19	-23.01434828	-3.36	0
13.3	-26.33	-48.14	-23.09629102	-3.23	0
13.4	-26.30	-48.11	-23.17761996	-3.13	0
13.5	-26.30	-48.11	-23.25834421	-3.04	0
13.6	-26.29	-48.10	-23.33847271	-2.95	0
13.7	-26.28	-48.09	-23.41801418	-2.86	0
13.8	-26.24	-48.05	-23.49697716	-2.74	0
13.9	-26.17	-47.98	-23.57537001	-2.60	0
14.0	-26.06	-47.87	-23.65320089	-2.41	0
14.1	-25.90	-47.71	-23.73047782	-2.17	0

14.2	-25.68	-47.49	-23.80720861	-1.87	0
14.3	-25.39	-47.20	-23.88340094	-1.51	0
14.4	-25.03	-46.84	-23.9590623	-1.07	0
14.5	-24.60	-46.41	-24.03420006	-0.57	0
14.6	-24.11	-45.92	-24.10882139	0.00	0
14.7	-23.57	-45.38	-24.18293337	0.62	0
14.8	-22.99	-44.80	-24.25654288	1.27	0
14.9	-22.39	-44.20	-24.32965671	1.94	0
15.0	-21.79	-43.60	-24.40228148	2.61	0

6) 14.5GHz

b) At off-axis angles from ±7° range (Perpendicular)



Model	Z7MK4		Min input: (@all freq.) -21.86
Frequency	14.50	[GHz]	
GSO arc	Perpendicular		
EIRPsd Input	-21.86	[dBW/4kHz]	
Radome Loss	0.5	[dB]	

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-21.04	-42.90	-24.40228148	3.36	0
-14.9	-21.15	-43.01	-24.32965671	3.18	0
-14.8	-21.23	-43.09	-24.25654288	3.02	0
-14.7	-21.28	-43.13	-24.18293337	2.91	0
-14.6	-21.27	-43.13	-24.10882139	2.84	0
-14.5	-21.20	-43.06	-24.03420006	2.83	0
-14.4	-21.08	-42.94	-23.9590623	2.88	0
-14.3	-20.89	-42.75	-23.88340094	2.99	0
-14.2	-20.66	-42.51	-23.80720861	3.15	0
-14.1	-20.38	-42.23	-23.73047782	3.35	0
-14.0	-20.07	-41.92	-23.65320089	3.58	0
-13.9	-19.75	-41.60	-23.57537001	3.83	0
-13.8	-19.43	-41.28	-23.49697716	4.07	0
-13.7	-19.12	-40.97	-23.41801418	4.30	0
-13.6	-18.83	-40.69	-23.33847271	4.51	0
-13.5	-18.58	-40.43	-23.25834421	4.68	0
-13.4	-18.36	-40.22	-23.17761996	4.82	0
-13.3	-18.19	-40.04	-23.09629102	4.91	0
-13.2	-18.06	-39.92	-23.01434828	4.95	0
-13.1	-17.99	-39.84	-22.93178239	4.94	0
-13.0	-17.96	-39.82	-22.84858381	4.88	0
-12.9	-18.00	-39.85	-22.76474276	4.77	0
-12.8	-18.09	-39.94	-22.68024924	4.59	0
-12.7	-18.23	-40.08	-22.59509302	4.37	0
-12.6	-18.42	-40.28	-22.50926363	4.09	0
-12.5	-18.67	-40.52	-22.42275033	3.76	0
-12.4	-18.95	-40.81	-22.33554213	3.38	0
-12.3	-19.27	-41.12	-22.24762779	2.98	0
-12.2	-19.60	-41.45	-22.15899577	2.56	0
-12.1	-19.93	-41.78	-22.06963426	2.14	0
-12.0	-20.23	-42.08	-21.97953115	1.75	0
-11.9	-20.47	-42.33	-21.88867403	1.42	0
-11.8	-20.64	-42.49	-21.79705018	1.16	0
-11.7	-20.71	-42.56	-21.70464654	1.00	0
-11.6	-20.68	-42.54	-21.61144973	0.93	0
-11.5	-20.58	-42.43	-21.51744601	0.94	0
-11.4	-20.41	-42.27	-21.42262128	1.01	0
-11.3	-20.21	-42.07	-21.32696109	1.12	0
-11.2	-20.01	-41.86	-21.23045057	1.23	0
-11.1	-19.82	-41.68	-21.13307447	1.31	0
-11.0	-19.69	-41.54	-21.03481713	1.35	0
-10.9	-19.61	-41.47	-20.93566245	1.33	0

-10.8	-19.61	-41.46	-20.83559389	1.23	0
-10.7	-19.68	-41.54	-20.73459444	1.05	0
-10.6	-19.85	-41.71	-20.63264663	0.78	0
-10.5	-20.12	-41.97	-20.52973248	0.41	0
-10.4	-20.48	-42.34	-20.42583348	-0.06	0
-10.3	-20.95	-42.81	-20.32093062	-0.63	0
-10.2	-21.52	-43.38	-20.21500429	-1.31	0
-10.1	-22.20	-44.06	-20.10803434	-2.09	0
-10.0	-22.97	-44.83	-20	-2.97	0
-9.9	-23.82	-45.68	-19.89087986	-3.93	0
-9.8	-24.73	-46.59	-19.78065189	-4.95	0
-9.7	-25.66	-47.51	-19.66929336	-5.99	0
-9.6	-26.53	-48.38	-19.55678083	-6.97	0
-9.5	-27.26	-49.11	-19.44309013	-7.81	0
-9.4	-27.72	-49.58	-19.32819634	-8.40	0
-9.3	-27.82	-49.68	-19.21207371	-8.61	0
-9.2	-27.47	-49.33	-19.09469568	-8.38	0
-9.1	-26.68	-48.53	-18.97603481	-7.70	0
-9.0	-25.53	-47.38	-18.85606274	-6.67	0
-8.9	-24.14	-46.00	-18.73475017	-5.41	0
-8.8	-22.64	-44.49	-18.6120668	-4.03	0
-8.7	-21.11	-42.96	-18.48798132	-2.62	0
-8.6	-19.61	-41.47	-18.36246128	-1.25	0
-8.5	-18.19	-40.05	-18.23547314	0.05	0
-8.4	-16.86	-38.72	-18.10698215	1.25	0
-8.3	-15.63	-37.49	-17.97695231	2.34	0
-8.2	-14.51	-36.37	-17.84534631	3.33	0
-8.1	-13.50	-35.36	-17.71212547	4.21	0
-8.0	-12.59	-34.45	-17.57724967	4.98	0
-7.9	-11.79	-33.65	-17.44067728	5.65	0
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-7.7	-10.47	-32.33	-17.16226813	6.69	0
-7.6	-9.94	-31.80	-17.02033981	7.08	0
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-6.5	-7.55	-29.40	-15.32283392	7.77	0
-6.4	-7.37	-29.22	-15.15449935	7.79	0
-6.3	-7.17	-29.03	-14.98351374	7.81	0
-6.2	-6.96	-28.82	-14.80979224	7.85	0
-6.1	-6.75	-28.61	-14.63324588	7.88	0
-6.0	-6.54	-28.39	-14.45378126	7.92	0
-5.9	-6.32	-28.18	-14.27130029	7.95	0

-5.8	-6.10	-27.95	-14.08569984	7.99	0
-5.7	-5.85	-27.70	-13.89687139	8.05	0
-5.6	-5.55	-27.41	-13.70470068	8.15	0
-5.5	-5.17	-27.03	-13.50906724	8.33	0
-5.4	-4.70	-26.55	-13.309844	8.61	0
-5.3	-4.10	-25.95	-13.10689674	9.01	0
-5.2	-3.38	-25.24	-12.90008359	9.52	0
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-5.0	-1.67	-23.53	-12.47425011	10.80	0
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-4.8	0.18	-21.67	-12.03103093	12.22	0
-4.7	1.09	-20.76	-11.80244645	12.89	0
-4.6	1.96	-19.90	-11.56894579	13.53	0
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-4.4	3.51	-18.35	-11.08631691	14.60	0
-4.3	4.18	-17.67	-10.83671139	15.02	0
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-3.3	6.85	-15.01	-7.962848497	14.81	0
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-2.7	6.54	-15.31	-5.784094104	12.33	0
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-2.5	7.01	-14.85	-4.948500217	11.96	0
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0.0	-3.09	-24.95			
0.1	-9.80	-31.65			
0.2	-16.99	-38.85			
0.3	-6.47	-28.33			
0.4	-1.59	-23.44			
0.5	1.41	-20.45			
0.6	3.50	-18.36			
0.7	5.05	-16.80			
0.8	6.24	-15.62			
0.9	7.15	-14.71			
1.0	7.84	-14.01			
1.1	8.36	-13.50			
1.2	8.72	-13.13			
1.3	8.95	-12.91			
1.4	9.06	-12.80			
1.5	9.05	-12.80	0.597718524	8.45	0
1.6	8.94	-12.91	-0.102999566	9.05	0
1.7	8.74	-13.11	-0.761223034	9.50	0
1.8	8.45	-13.40	-1.381812628	9.84	0
1.9	8.09	-13.77	-1.968840024	10.06	0
2.0	7.66	-14.20	-2.525749892	10.18	0
2.1	7.18	-14.67	-3.055482368	10.24	0
2.2	6.68	-15.17	-3.560567021	10.24	0
2.3	6.19	-15.67	-4.0431959	10.23	0
2.4	5.74	-16.12	-4.505281043	10.24	0
2.5	5.37	-16.49	-4.948500217	10.32	0
2.6	5.11	-16.74	-5.374333699	10.49	0
2.7	4.98	-16.87	-5.784094104	10.77	0
2.8	4.98	-16.87	-6.178950784	11.16	0
2.9	5.08	-16.78	-6.559949947	11.64	0
3.0	5.24	-16.62	-6.928031368	12.17	0
3.1	5.43	-16.43	-7.284042346	12.71	0
3.2	5.61	-16.24	-7.628749458	13.24	0
3.3	5.77	-16.09	-7.962848497	13.73	0
3.4	5.88	-15.98	-8.286972926	14.16	0
3.5	5.92	-15.93	-8.601701109	14.52	0
3.6	5.90	-15.96	-8.907562519	14.81	0
3.7	5.81	-16.05	-9.205043102	15.01	0
3.8	5.64	-16.22	-9.494589915	15.13	0
3.9	5.39	-16.47	-9.776615176	15.16	0
4.0	5.06	-16.80	-10.05149978	15.11	0
4.1	4.65	-17.21	-10.31959642	14.97	0

4.2	4.16	-17.69	-10.58123226	14.74	0
4.3	3.59	-18.26	-10.83671139	14.43	0
4.4	2.95	-18.91	-11.08631691	14.03	0
4.5	2.23	-19.63	-11.33031284	13.56	0
4.6	1.43	-20.43	-11.56894579	13.00	0
4.7	0.57	-21.29	-11.80244645	12.37	0
4.8	-0.35	-22.21	-12.03103093	11.68	0
4.9	-1.31	-23.17	-12.254902	10.94	0
5.0	-2.29	-24.15	-12.47425011	10.18	0
5.1	-3.27	-25.13	-12.6892544	9.42	0
5.2	-4.21	-26.06	-12.90008359	8.69	0
5.3	-5.07	-26.93	-13.10689674	8.03	0
5.4	-5.84	-27.69	-13.309844	7.47	0
5.5	-6.48	-28.34	-13.50906724	7.03	0
5.6	-7.01	-28.87	-13.70470068	6.69	0
5.7	-7.45	-29.31	-13.89687139	6.44	0
5.8	-7.83	-29.68	-14.08569984	6.26	0
5.9	-8.16	-30.02	-14.27130029	6.11	0
6.0	-8.48	-30.34	-14.45378126	5.97	0
6.1	-8.80	-30.65	-14.63324588	5.84	0
6.2	-9.11	-30.96	-14.80979224	5.70	0
6.3	-9.40	-31.26	-14.98351374	5.58	0
6.4	-9.67	-31.53	-15.15449935	5.48	0
6.5	-9.89	-31.75	-15.32283392	5.43	0
6.6	-10.06	-31.91	-15.48859839	5.43	0
6.7	-10.15	-32.01	-15.65187007	5.50	0
6.8	-10.18	-32.04	-15.81272282	5.63	0
6.9	-10.17	-32.02	-15.97122727	5.80	0
7.0	-10.12	-31.98	-16.127451	6.01	0
7.1	-10.07	-31.92	-16.28145872	6.22	0
7.2	-10.03	-31.88	-16.43331241	6.41	0
7.3	-10.02	-31.88	-16.5830715	6.56	0
7.4	-10.07	-31.92	-16.73079299	6.66	0
7.5	-10.17	-32.03	-16.87653158	6.71	0
7.6	-10.34	-32.20	-17.02033981	6.68	0
7.7	-10.59	-32.45	-17.16226813	6.57	0
7.8	-10.92	-32.77	-17.30236507	6.38	0
7.9	-11.32	-33.18	-17.44067728	6.12	0
8.0	-11.81	-33.67	-17.57724967	5.76	0
8.1	-12.39	-34.24	-17.71212547	5.33	0
8.2	-13.04	-34.89	-17.84534631	4.81	0
8.3	-13.77	-35.63	-17.97695231	4.21	0
8.4	-14.57	-36.43	-18.10698215	3.53	0
8.5	-15.44	-37.30	-18.23547314	2.79	0
8.6	-16.37	-38.23	-18.36246128	1.99	0
8.7	-17.33	-39.19	-18.48798132	1.16	0
8.8	-18.31	-40.16	-18.6120668	0.31	0
8.9	-19.26	-41.12	-18.73475017	-0.53	0
9.0	-20.15	-42.01	-18.85606274	-1.30	0
9.1	-20.93	-42.79	-18.97603481	-1.95	0

9.2	-21.55	-43.41	-19.09469568	-2.46	0
9.3	-21.98	-43.83	-19.21207371	-2.76	0
9.4	-22.19	-44.05	-19.32819634	-2.86	0
9.5	-22.20	-44.06	-19.44309013	-2.76	0
9.6	-22.04	-43.90	-19.55678083	-2.49	0
9.7	-21.75	-43.61	-19.66929336	-2.08	0
9.8	-21.37	-43.23	-19.78065189	-1.59	0
9.9	-20.94	-42.79	-19.89087986	-1.05	0
10.0	-20.49	-42.35	-20	-0.49	0
10.1	-20.06	-41.91	-20.10803434	0.05	0
10.2	-19.65	-41.51	-20.21500429	0.56	0
10.3	-19.30	-41.16	-20.32093062	1.02	0
10.4	-19.01	-40.87	-20.42583348	1.42	0
10.5	-18.79	-40.65	-20.52973248	1.74	0
10.6	-18.65	-40.50	-20.63264663	1.99	0
10.7	-18.58	-40.44	-20.73459444	2.15	0
10.8	-18.60	-40.45	-20.83559389	2.24	0
10.9	-18.69	-40.55	-20.93566245	2.24	0
11.0	-18.87	-40.72	-21.03481713	2.17	0
11.1	-19.12	-40.97	-21.13307447	2.02	0
11.2	-19.42	-41.28	-21.23045057	1.81	0
11.3	-19.78	-41.63	-21.32696109	1.55	0
11.4	-20.15	-42.01	-21.42262128	1.27	0
11.5	-20.51	-42.37	-21.51744601	1.00	0
11.6	-20.83	-42.69	-21.61144973	0.78	0
11.7	-21.06	-42.91	-21.70464654	0.65	0
11.8	-21.17	-43.02	-21.79705018	0.63	0
11.9	-21.15	-43.00	-21.88867403	0.74	0
12.0	-21.00	-42.86	-21.97953115	0.98	0
12.1	-20.77	-42.62	-22.06963426	1.30	0
12.2	-20.47	-42.33	-22.15899577	1.69	0
12.3	-20.15	-42.01	-22.24762779	2.09	0
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12.5	-19.57	-41.42	-22.42275033	2.86	0
12.6	-19.33	-41.19	-22.50926363	3.17	0
12.7	-19.15	-41.01	-22.59509302	3.44	0
12.8	-19.03	-40.89	-22.68024924	3.65	0
12.9	-18.97	-40.82	-22.76474276	3.80	0
13.0	-18.96	-40.81	-22.84858381	3.89	0
13.1	-19.00	-40.85	-22.93178239	3.94	0
13.2	-19.08	-40.94	-23.01434828	3.93	0
13.3	-19.21	-41.07	-23.09629102	3.89	0
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13.5	-19.55	-41.41	-23.25834421	3.71	0
13.6	-19.75	-41.60	-23.33847271	3.59	0
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13.8	-20.14	-42.00	-23.49697716	3.35	0
13.9	-20.32	-42.18	-23.57537001	3.25	0
14.0	-20.48	-42.33	-23.65320089	3.18	0
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14.2	-20.68	-42.54	-23.80720861	3.12	0
14.3	-20.73	-42.58	-23.88340094	3.16	0
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14.5	-20.69	-42.54	-24.03420006	3.35	0
14.6	-20.61	-42.47	-24.10882139	3.50	0
14.7	-20.51	-42.36	-24.18293337	3.68	0
14.8	-20.38	-42.23	-24.25654288	3.88	0
14.9	-20.23	-42.09	-24.32965671	4.10	0
15.0	-20.08	-41.94	-24.40228148	4.32	0