

TECHNICAL EXHIBIT
APPLICATION FOR
MODIFICATION OF DIGITAL CONSTRUCTION PERMIT
LPTV STATION WEIL-LP (FACILITY ID 37482)
EFFINGHAM, ILLINOIS
CH 45 15 KW (MAX-DA)

Technical Narrative

This Technical Exhibit was prepared in support of an application to modify the authorized (BDFCDTL-20071001AKY) digital operation of LPTV station WEIL-LP on channel 45 at Effingham, Illinois. Station WEIL-LP is authorized to operate on digital channel 45 with an ERI ALP8L1-HSM-45 directional antenna, a maximum directional effective radiated power (ERP) of 15 kilowatts an antenna radiation center height above mean sea level (RCAMSL) of 499.9 meters.

Proposed Facilities

This application proposes to modify the digital operation by operating with a top-mounted ERI ATW8H3-HTM-45L antenna instead of the side-mounted ERI ALP8L1-HSM-45. Specifically, it is proposed to operate on channel 45, at the currently authorized site with a maximum directional ERP of 15 kilowatts and an RCAMSL of 517 meters. The FCC Tower Registration number for the existing 321.2 meter (1054 foot) structure is 1057485.

Figure 1 is a map showing the WEIL-LP licensed 74 dBu (analog) contour, the authorized 51 dBu (digital) contour and the proposed 51 dBu (digital) contour. As shown on the map, the proposed digital contour overlaps a portion of the authorized analog contour and completely encompasses the authorized digital contour.

Allocation Considerations

A study has been conducted to assure that the proposal will not create prohibited interference with other licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations. Using the procedures outlined in the FCC's OET-69 Bulletin, a 1 kilometer cell size resolution and 1990 U.S. Census, the proposal complies

with the current FCC policy (i.e., less than 0.5% new interference caused to other pertinent assignments). If necessary, a waiver of the FCC rules is respectfully requested based on use of the procedures outlined in the FCC's OET-69 Bulletin to the remaining LPTV/translator stations.

The applicant recognizes the proposal is secondary to authorized full-service analog and DTV operations. The applicant understands that it must correct and/or eliminate prohibited interference that may result from its proposed operation.

Radiofrequency Electromagnetic Field Exposure

The WEIL-LD facilities were evaluated in terms of potential radiofrequency radiation exposure at 2 meters above ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". This Bulletin provides assistance in determining whether FCC-regulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) electromagnetic fields adopted by the Commission in 1996.¹

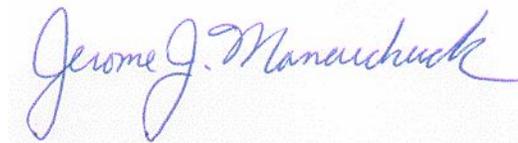
The calculated power density at 2 meters above ground level at the base of the tower was calculated using the appropriate equation contained in the Bulletin. As shown on Figure 2 (antenna vertical relative pattern), the maximum vertical relative field for depression angles towards the tower base (-60° to -90°) is less than 0.3. Therefore, using a conservative vertical relative field value of 0.3, a maximum ERP of 15 kilowatts, and an antenna center of radiation height above ground level of 307 meters, the calculated power density at two meters above ground level at the base of the tower is 0.0005 milliwatt per square centimeter (mW/cm^2), or 0.11 percent of the Commission's recommended limit applicable to general population/uncontrolled exposure areas ($0.44 \text{ mW}/\text{cm}^2$ for TV channel 45). Therefore, the facility complies with the FCC's RF emission rules.

¹ See *Report and Order* in ET Docket 93-62, FCC 96-326, adopted August 1, 1996, 11 FCC Rcd 15123 (1997). See also *First Memorandum Opinion and Order*, ET Docket 93-62, FCC 96-487, adopted December 23, 1996, 11 FCC Rcd 17512 (1997), and *Second Memorandum Opinion and Order and Notice of Proposed Rulemaking*, ET Docket 93-62, FCC 97-303, adopted August 25, 1997.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, an agreement will be in effect to control access to the site. In the event that workers or other authorized personnel enter the restricted area appropriate measures shall be taken to limit RF energy exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

If there are questions concerning the technical portion of this application, please contact the office of the undersigned.

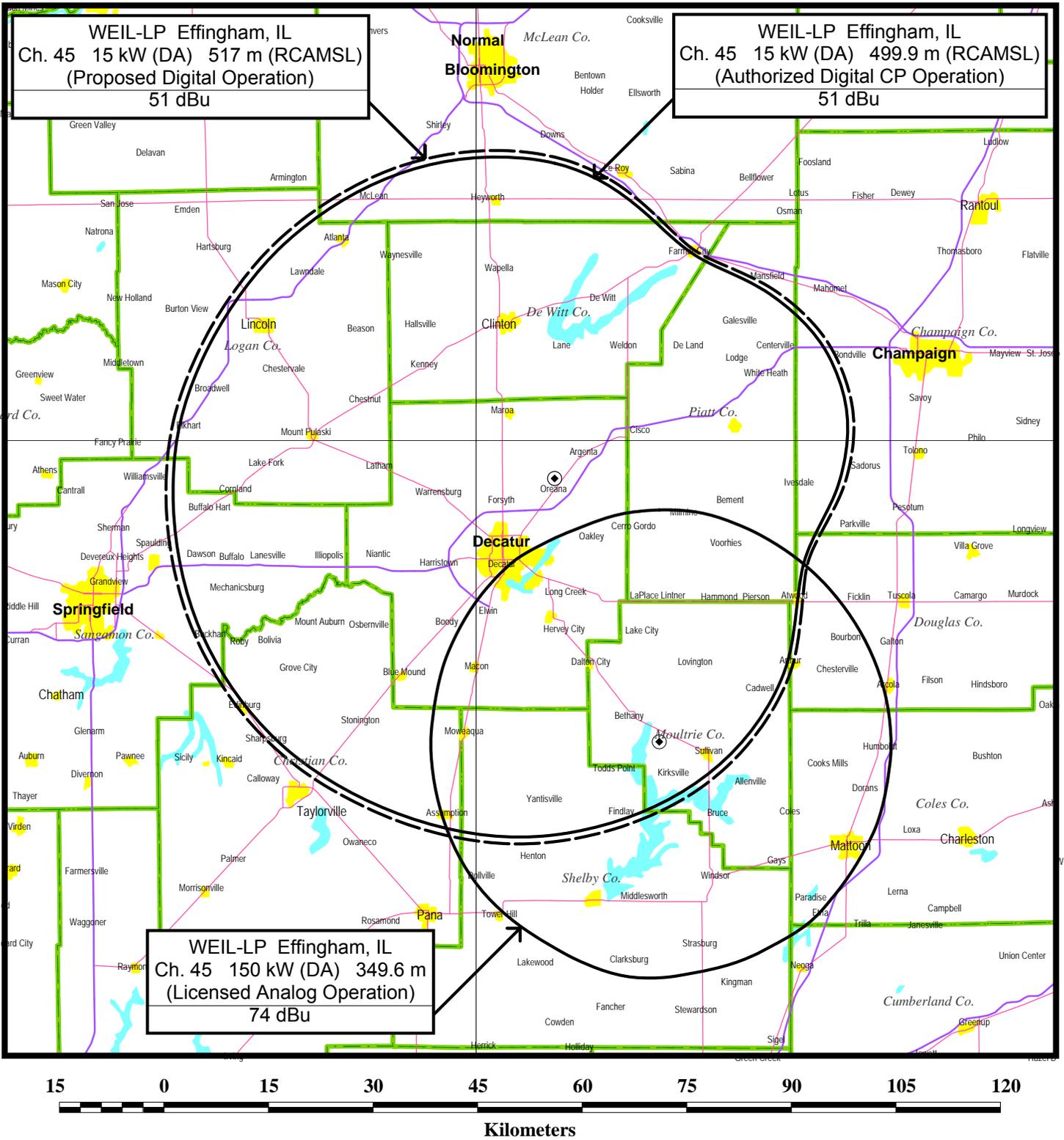


Jerome J. Manarchuck

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000

January 24, 2008

Figure 1

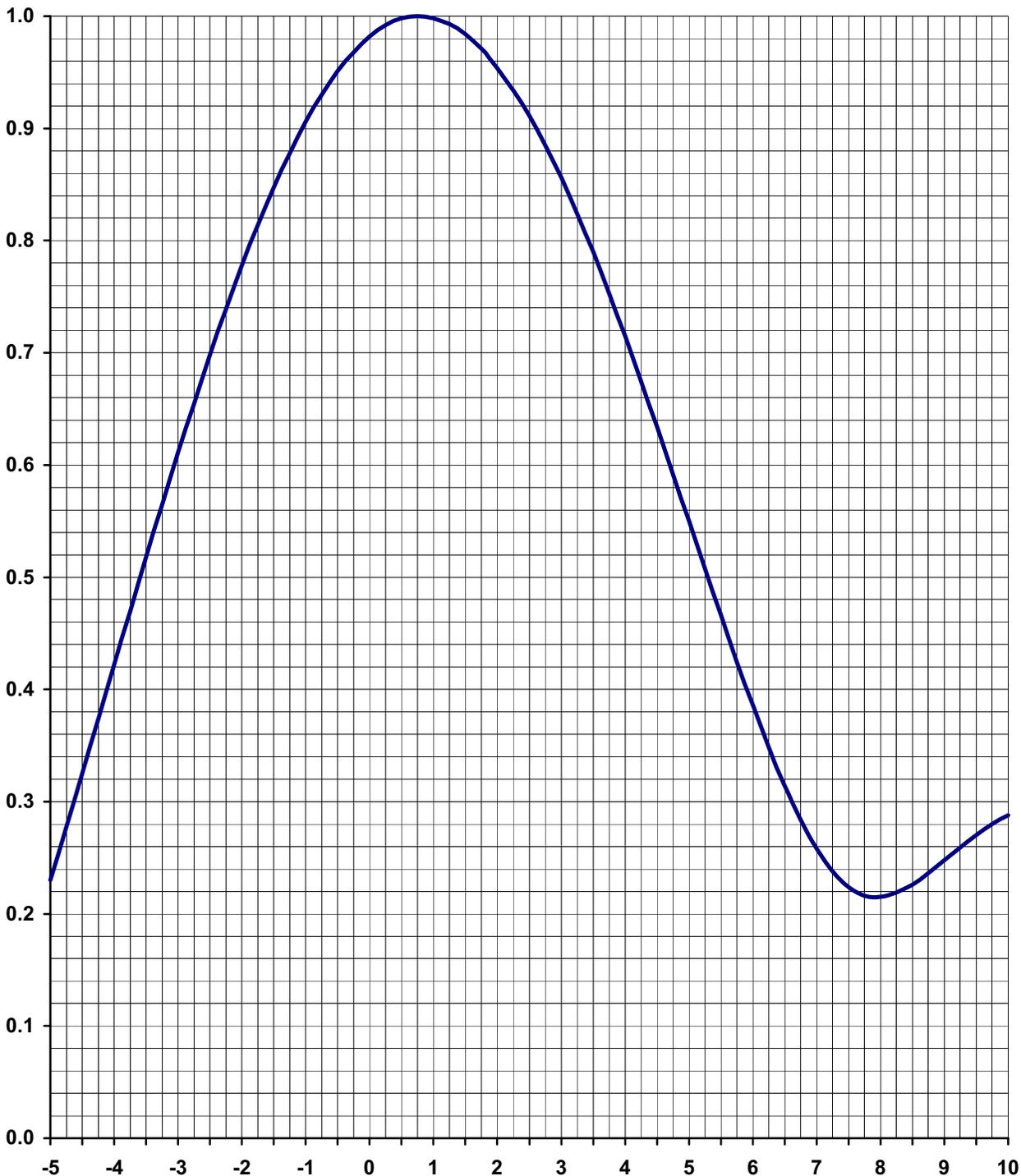


FCC PREDICTED COVERAGE CONTOURS

LPTV STATION WEIL-LP
EFFINGHAM, ILLINOIS
CHANNEL 45

ELEVATION PATTERN

TYPE:	ATW8H3H		Frequency:	45 (DTV)
Directivity:	<u>Numeric</u>	<u>dBd</u>	Location:	<u>Effingham, IL</u>
Main Lobe:	<u>8.00</u>	<u>9.03</u>	Beam Tilt:	<u>0.75</u>
Horizontal:	<u>7.71</u>	<u>8.87</u>	Polarization:	<u>Horizontal</u>



TABULATED DATA FOR ELEVATION PATTERN**ATW8H3H***-5 to 10 degrees in 0.25 increments**10 to 90 degrees in 0.50 increments*

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.000	0.230	-12.77	6.75	0.284	-10.93	27.00	0.131	-17.65	50.50	0.048	-26.38	74.00	0.082	-21.72
-4.750	0.278	-11.12	7.00	0.258	-11.77	27.50	0.132	-17.59	51.00	0.034	-29.37	74.50	0.085	-21.41
-4.500	0.325	-9.76	7.25	0.238	-12.47	28.00	0.130	-17.72	51.50	0.021	-33.56	75.00	0.087	-21.21
-4.250	0.374	-8.54	7.50	0.224	-13.00	28.50	0.123	-18.20	52.00	0.009	-40.92	75.50	0.088	-21.11
-4.000	0.422	-7.49	7.75	0.216	-13.31	29.00	0.113	-18.94	52.50	0.013	-37.72	76.00	0.090	-20.92
-3.750	0.470	-6.56	8.00	0.215	-13.35	29.50	0.100	-20.00	53.00	0.025	-32.04	76.50	0.090	-20.92
-3.500	0.518	-5.71	8.25	0.219	-13.19	30.00	0.085	-21.41	53.50	0.039	-28.18	77.00	0.091	-20.82
-3.250	0.565	-4.96	8.50	0.226	-12.92	30.50	0.069	-23.22	54.00	0.052	-25.68	77.50	0.091	-20.82
-3.000	0.611	-4.28	8.75	0.236	-12.54	31.00	0.052	-25.68	54.50	0.064	-23.88	78.00	0.090	-20.92
-2.750	0.655	-3.68	9.00	0.248	-12.11	31.50	0.039	-28.18	55.00	0.075	-22.50	78.50	0.089	-21.01
-2.500	0.698	-3.12	9.25	0.259	-11.73	32.00	0.034	-29.37	55.50	0.086	-21.31	79.00	0.088	-21.11
-2.250	0.739	-2.63	9.50	0.270	-11.37	32.50	0.041	-27.74	56.00	0.095	-20.45	79.50	0.086	-21.31
-2.000	0.778	-2.18	9.75	0.280	-11.06	33.00	0.054	-25.35	56.50	0.103	-19.74	80.00	0.084	-21.51
-1.750	0.814	-1.79	10.00	0.288	-10.81	33.50	0.068	-23.35	57.00	0.110	-19.17	80.50	0.082	-21.72
-1.500	0.847	-1.44	10.50	0.298	-10.52	34.00	0.082	-21.72	57.50	0.115	-18.79	81.00	0.079	-22.05
-1.250	0.878	-1.13	11.00	0.300	-10.46	34.50	0.094	-20.54	58.00	0.119	-18.49	81.50	0.076	-22.38
-1.000	0.906	-0.86	11.50	0.293	-10.66	35.00	0.103	-19.74	58.50	0.122	-18.27	82.00	0.073	-22.73
-0.750	0.930	-0.63	12.00	0.278	-11.12	35.50	0.110	-19.17	59.00	0.123	-18.20	82.50	0.069	-23.22
-0.500	0.951	-0.44	12.50	0.255	-11.87	36.00	0.113	-18.94	59.50	0.123	-18.20	83.00	0.066	-23.61
-0.250	0.968	-0.28	13.00	0.227	-12.88	36.50	0.114	-18.86	60.00	0.122	-18.27	83.50	0.062	-24.15
0.000	0.982	-0.16	13.50	0.195	-14.20	37.00	0.111	-19.09	60.50	0.120	-18.42	84.00	0.058	-24.73
0.250	0.992	-0.07	14.00	0.160	-15.92	37.50	0.106	-19.49	61.00	0.116	-18.71	84.50	0.054	-25.35
0.500	0.998	-0.02	14.50	0.127	-17.92	38.00	0.098	-20.18	61.50	0.112	-19.02	85.00	0.049	-26.20
0.750	1.000	0.00	15.00	0.100	-20.00	38.50	0.088	-21.11	62.00	0.107	-19.41	85.50	0.045	-26.94
1.000	0.998	-0.02	15.50	0.087	-21.21	39.00	0.075	-22.50	62.50	0.101	-19.91	86.00	0.040	-27.96
1.250	0.993	-0.06	16.00	0.090	-20.92	39.50	0.062	-24.15	63.00	0.094	-20.54	86.50	0.035	-29.12
1.500	0.984	-0.14	16.50	0.106	-19.49	40.00	0.047	-26.56	63.50	0.087	-21.21	87.00	0.030	-30.46
1.750	0.971	-0.26	17.00	0.127	-17.92	40.50	0.034	-29.37	64.00	0.080	-21.94	87.50	0.025	-32.04
2.000	0.954	-0.41	17.50	0.146	-16.71	41.00	0.024	-32.40	64.50	0.072	-22.85	88.00	0.020	-33.98
2.250	0.934	-0.59	18.00	0.161	-15.86	41.50	0.024	-32.40	65.00	0.064	-23.88	88.50	0.015	-36.48
2.500	0.911	-0.81	18.50	0.171	-15.34	42.00	0.034	-29.37	65.50	0.057	-24.88	89.00	0.010	-40.00
2.750	0.885	-1.06	19.00	0.175	-15.14	42.50	0.047	-26.56	66.00	0.050	-26.02	89.50	0.005	-46.02
3.000	0.856	-1.35	19.50	0.174	-15.19	43.00	0.061	-24.29	66.50	0.043	-27.33	90.00	0.000	---
3.250	0.824	-1.68	20.00	0.167	-15.55	43.50	0.073	-22.73	67.00	0.038	-28.40			
3.500	0.790	-2.05	20.50	0.155	-16.19	44.00	0.084	-21.51	67.50	0.035	-29.12			
3.750	0.753	-2.46	21.00	0.139	-17.14	44.50	0.094	-20.54	68.00	0.033	-29.63			
4.000	0.715	-2.91	21.50	0.119	-18.49	45.00	0.101	-19.91	68.50	0.034	-29.37			
4.250	0.675	-3.41	22.00	0.097	-20.26	45.50	0.106	-19.49	69.00	0.037	-28.64			
4.500	0.634	-3.96	22.50	0.076	-22.38	46.00	0.109	-19.25	69.50	0.042	-27.54			
4.750	0.592	-4.55	23.00	0.058	-24.73	46.50	0.110	-19.17	70.00	0.046	-26.74			
5.000	0.550	-5.19	23.50	0.050	-26.02	47.00	0.108	-19.33	70.50	0.052	-25.68			
5.250	0.508	-5.88	24.00	0.056	-25.04	47.50	0.105	-19.58	71.00	0.057	-24.88			
5.500	0.466	-6.63	24.50	0.070	-23.10	48.00	0.099	-20.09	71.50	0.062	-24.15			
5.750	0.425	-7.43	25.00	0.086	-21.31	48.50	0.092	-20.72	72.00	0.067	-23.48			
6.000	0.386	-8.27	25.50	0.102	-19.83	49.00	0.083	-21.62	72.50	0.071	-22.97			
6.250	0.349	-9.14	26.00	0.115	-18.79	49.50	0.072	-22.85	73.00	0.075	-22.50			
6.500	0.314	-10.06	26.50	0.125	-18.06	50.00	0.060	-24.44	73.50	0.079	-22.05			