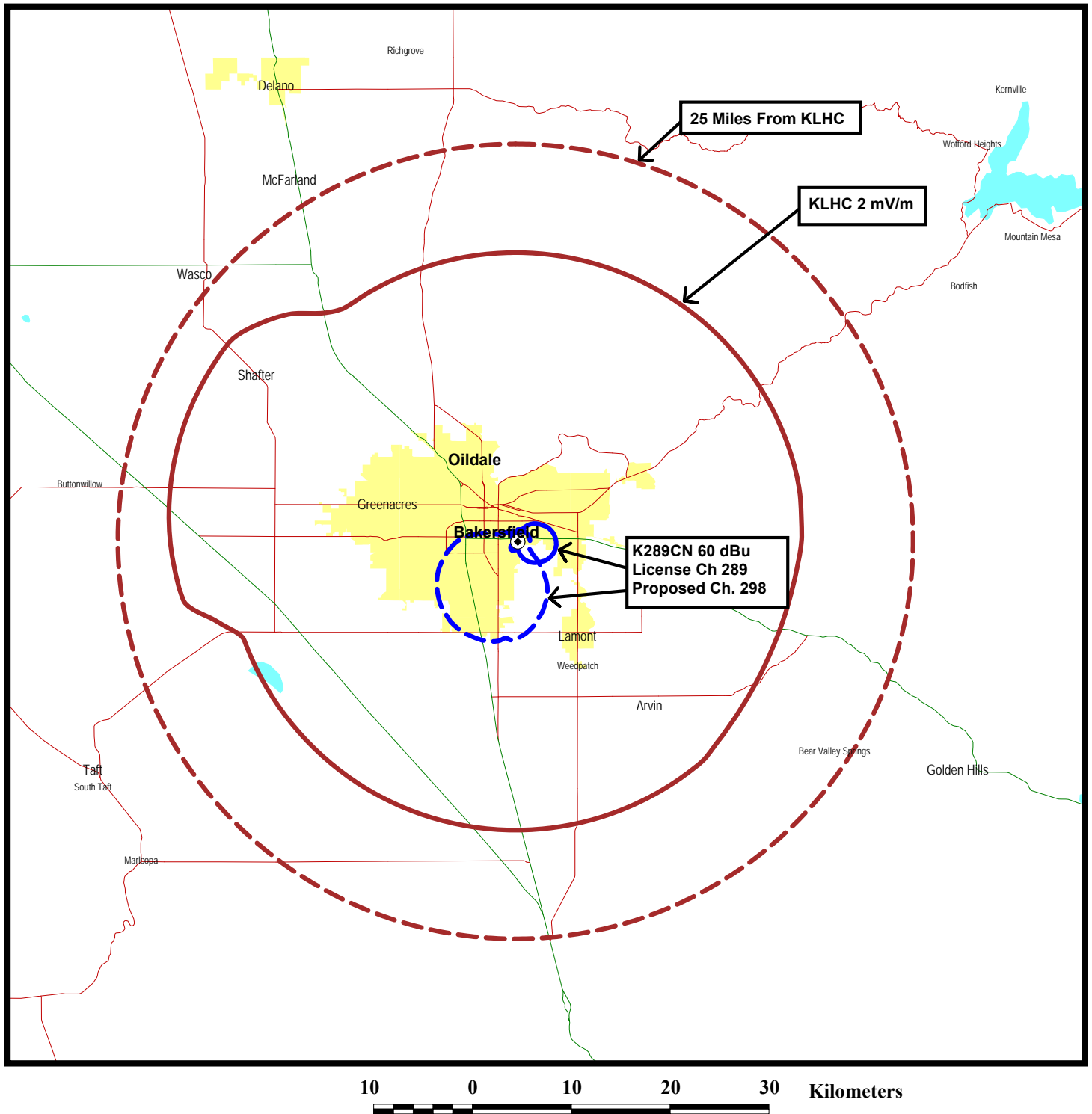


Figure 1



AM FILL-IN COMPLIANCE MAP

FM TRANSLATOR STATION K289CN
BAKERSFIELD, CALIFORNIA
CH 298 (107.5 MHZ) 0.25 KW (DA)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

FM Contour Study

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Channel: 298 **Coordinates:** 035-20-59 118-58-49 (NAD 27) **ERP:** 0.25 kW **Max. HAAT:** 70 m **Considering Only Interference Caused**

Comment: Proposed K289CN

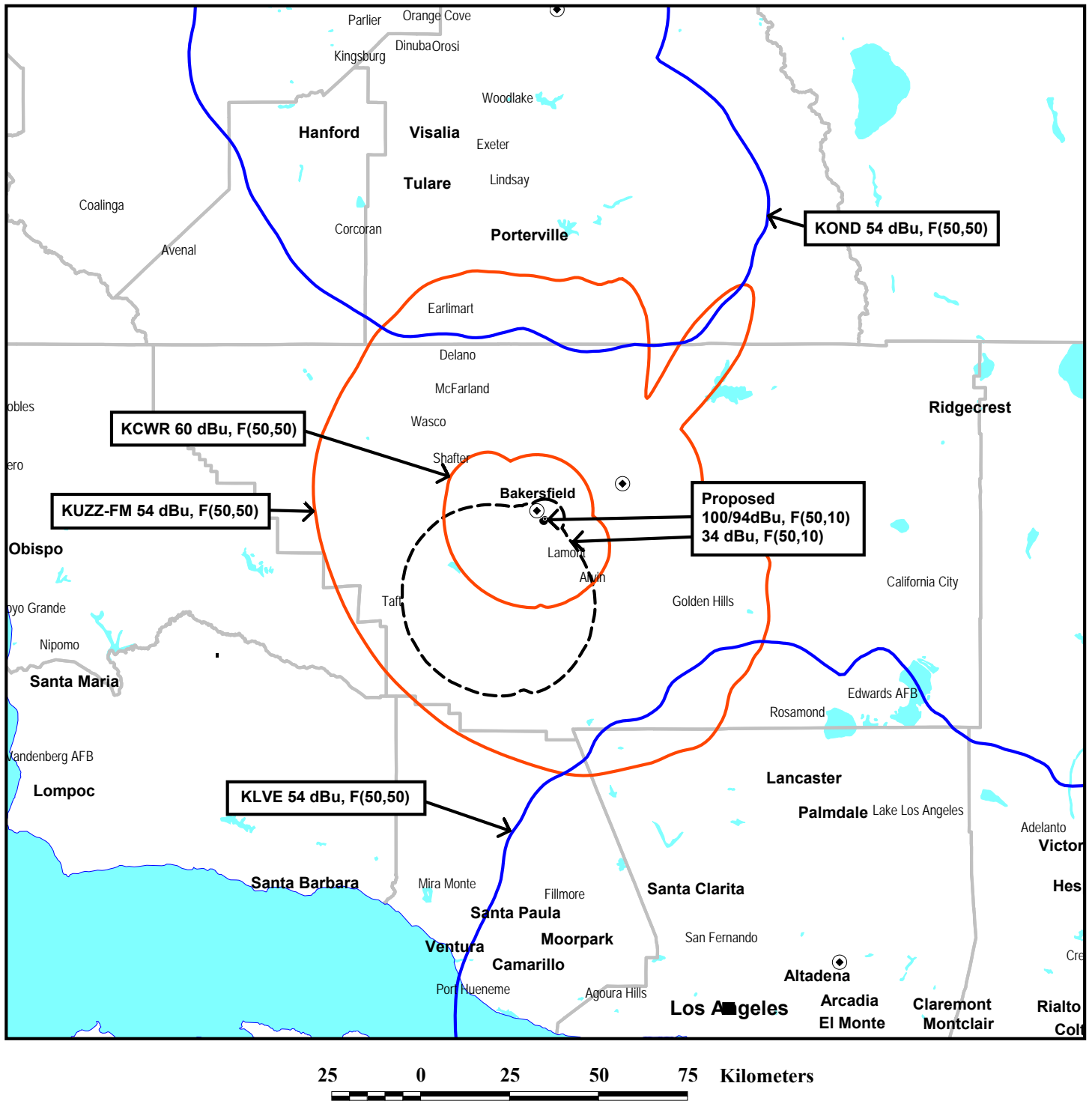
Callsign	Chan.	Service	Status	Freq.	City	State	Co.	Rec.	Latitude	Dist. (km)	Sep. (km)	Spac. (km)
Facility ID	ARN			Class	DA	73.215	ERP (kW)	HAAT (m)	Longitude	Bear. (deg)	Comment	
KCWR	296	FM	LIC	107.1	BAKERSFIELD	CA	US	C	35-22-11	3.16	28.35	-25.19
43749	BLH	20110607AAG	A	N	N	6	48		119-00-18	314.78	SHORT	/1
KCWR 60.0 dBu desired distance: 27.3 km				Proposed 100.0 dBu undesired distance: 1.0 km								
K245CJ	298	FX	CP	107.5	BAKERSFIELD	CA	US	C	35-27-11	37.19	79.42	-42.23
149107	BPFT	20160728AAS	D	D	N	0.11			118-35-27	71.86	SHORT	/2
K245CJ 60.0 dBu desired distance: 42.4 km				Proposed 40.0 dBu undesired distance: 37.0 km								
KLVE	298	FM	LIC	107.5	LOS ANGELES	CA	US	C	34-13-44	149.81	170.07	-20.26
35086	BMLH	19950612KB	B	N	N	29.5	914		118-04-02	145.96	SHORT	/3
KLVE 54.0 dBu desired distance: 116.4 km				Proposed 34.0 dBu undesired distance: 53.6 km								
KOND	298	FM	LIC	107.5	HANFORD	CA	US	C	36-38-12	142.83	156.56	-13.73
26266	BLH	20050812ABY	B	N	N	24.6	215		118-56-34	1.34	SHORT	/3
KOND 54.0 dBu desired distance: 102.9 km				Proposed 34.0 dBu undesired distance: 53.6 km								
KUZZ-FM	300	FM	LIC	107.9	BAKERSFIELD	CA	US	C	35-26-17	23.95	67.25	-43.3
7697	BMLH	20110201ACF	B	N		6	416		118-44-23	65.68	SHORT	/1
KUZZ-FM 54.0 dBu desired distance: 65.8 km				Proposed 94.0 dBu undesired distance: 1.4 km								

/1 There will be overlap normally prohibited by Section 74.1204(a). However, based on the undesired-to-desired (U/D) signal strength ratio methodology, per Living Way Ministries, it has been determined that no actual interference will occur due to lack of population under Section 74.1204(d). See Exhibit 17 and Figure 4.

/2 The K245CJ CP expired and was cancelled on August 15, 2019. Therefore, protection of K245CJ's CP is not required.

/3 Proposal complies with the contour overlap provisions of Section 74.1204(a).

Figure 3



COMPLIANCE WITH SECTION 74.1204

FM TRANSLATOR STATION K289CN
BAKERSFIELD, CALIFORNIA
CH 298 (107.5 MHZ) 0.25 KW (DA)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 4

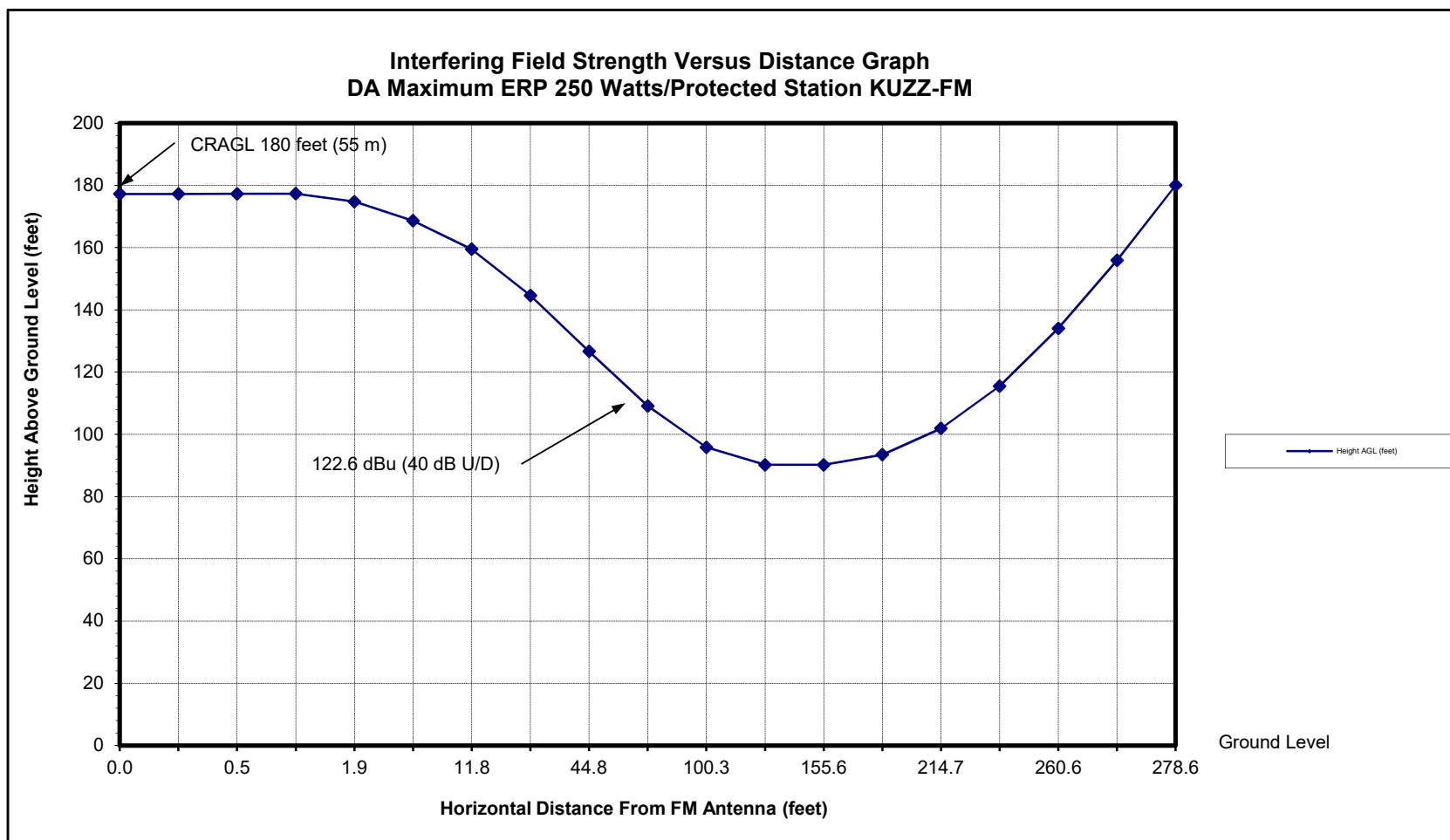


Figure 5



CL-FM

FM

Maximum gain: 7.0 dBd

Vertical polarization

Vertical radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	7.00	5.01	45	0.360	-8.87	-1.87	0.65
1	0.996	-0.03	6.97	4.97	46	0.338	-9.42	-2.42	0.57
2	0.992	-0.07	6.93	4.93	47	0.316	-10.01	-3.01	0.50
3	0.988	-0.10	6.90	4.89	48	0.294	-10.63	-3.63	0.43
4	0.984	-0.14	6.86	4.85	49	0.272	-11.31	-4.31	0.37
5	0.980	-0.18	6.82	4.81	50	0.250	-12.04	-5.04	0.31
6	0.974	-0.23	6.77	4.75	51	0.231	-12.73	-5.73	0.27
7	0.968	-0.28	6.72	4.70	52	0.212	-13.47	-6.47	0.23
8	0.962	-0.34	6.66	4.64	53	0.193	-14.29	-7.29	0.19
9	0.956	-0.39	6.61	4.58	54	0.174	-15.19	-8.19	0.15
10	0.950	-0.45	6.55	4.52	55	0.155	-16.19	-9.19	0.12
11	0.939	-0.55	6.45	4.42	56	0.141	-17.02	-10.02	0.10
12	0.928	-0.65	6.35	4.32	57	0.127	-17.92	-10.92	0.08
13	0.917	-0.75	6.25	4.21	58	0.113	-18.94	-11.94	0.06
14	0.906	-0.86	6.14	4.11	59	0.099	-20.09	-13.09	0.05
15	0.895	-0.96	6.04	4.01	60	0.085	-21.41	-14.41	0.04
16	0.880	-1.11	5.89	3.88	61	0.077	-22.27	-15.27	0.03
17	0.865	-1.26	5.74	3.75	62	0.069	-23.22	-16.22	0.02
18	0.850	-1.41	5.59	3.62	63	0.061	-24.29	-17.29	0.02
19	0.835	-1.57	5.43	3.49	64	0.053	-25.51	-18.51	0.01
20	0.820	-1.72	5.28	3.37	65	0.045	-26.94	-19.94	0.01
21	0.803	-1.91	5.09	3.23	66	0.040	-27.96	-20.96	0.01
22	0.786	-2.09	4.91	3.10	67	0.035	-29.12	-22.12	0.01
23	0.769	-2.28	4.72	2.96	68	0.030	-30.46	-23.46	0.00
24	0.752	-2.48	4.52	2.83	69	0.025	-32.04	-25.04	0.00
25	0.735	-2.67	4.33	2.71	70	0.020	-33.98	-26.98	0.00
26	0.717	-2.89	4.11	2.58	71	0.018	-34.89	-27.89	0.00
27	0.699	-3.11	3.89	2.45	72	0.016	-35.92	-28.92	0.00
28	0.681	-3.34	3.66	2.32	73	0.014	-37.08	-30.08	0.00
29	0.663	-3.57	3.43	2.20	74	0.012	-38.42	-31.42	0.00
30	0.645	-3.81	3.19	2.09	75	0.010	-40.00	-33.00	0.00
31	0.628	-4.03	2.97	1.98	76	0.010	-40.00	-33.00	0.00
32	0.612	-4.26	2.74	1.88	77	0.010	-40.00	-33.00	0.00
33	0.595	-4.50	2.50	1.78	78	0.010	-40.00	-33.00	0.00
34	0.579	-4.75	2.25	1.68	79	0.010	-40.00	-33.00	0.00
35	0.562	-5.00	2.00	1.59	80	0.010	-40.00	-33.00	0.00
36	0.544	-5.29	1.71	1.48	81	0.010	-40.00	-33.00	0.00
37	0.525	-5.59	1.41	1.38	82	0.010	-40.00	-33.00	0.00
38	0.507	-5.90	1.10	1.29	83	0.010	-40.00	-33.00	0.00
39	0.488	-6.22	0.78	1.20	84	0.010	-40.00	-33.00	0.00
40	0.470	-6.56	0.44	1.11	85	0.010	-40.00	-33.00	0.00
41	0.448	-6.97	0.03	1.01	86	0.010	-40.00	-33.00	0.00
42	0.426	-7.41	-0.41	0.91	87	0.010	-40.00	-33.00	0.00
43	0.404	-7.87	-0.87	0.82	88	0.010	-40.00	-33.00	0.00
44	0.382	-8.36	-1.36	0.73	89	0.010	-40.00	-33.00	0.00
					90	0.010	-40.00	-33.00	0.00