REC Networks/Michelle Bradley CBT
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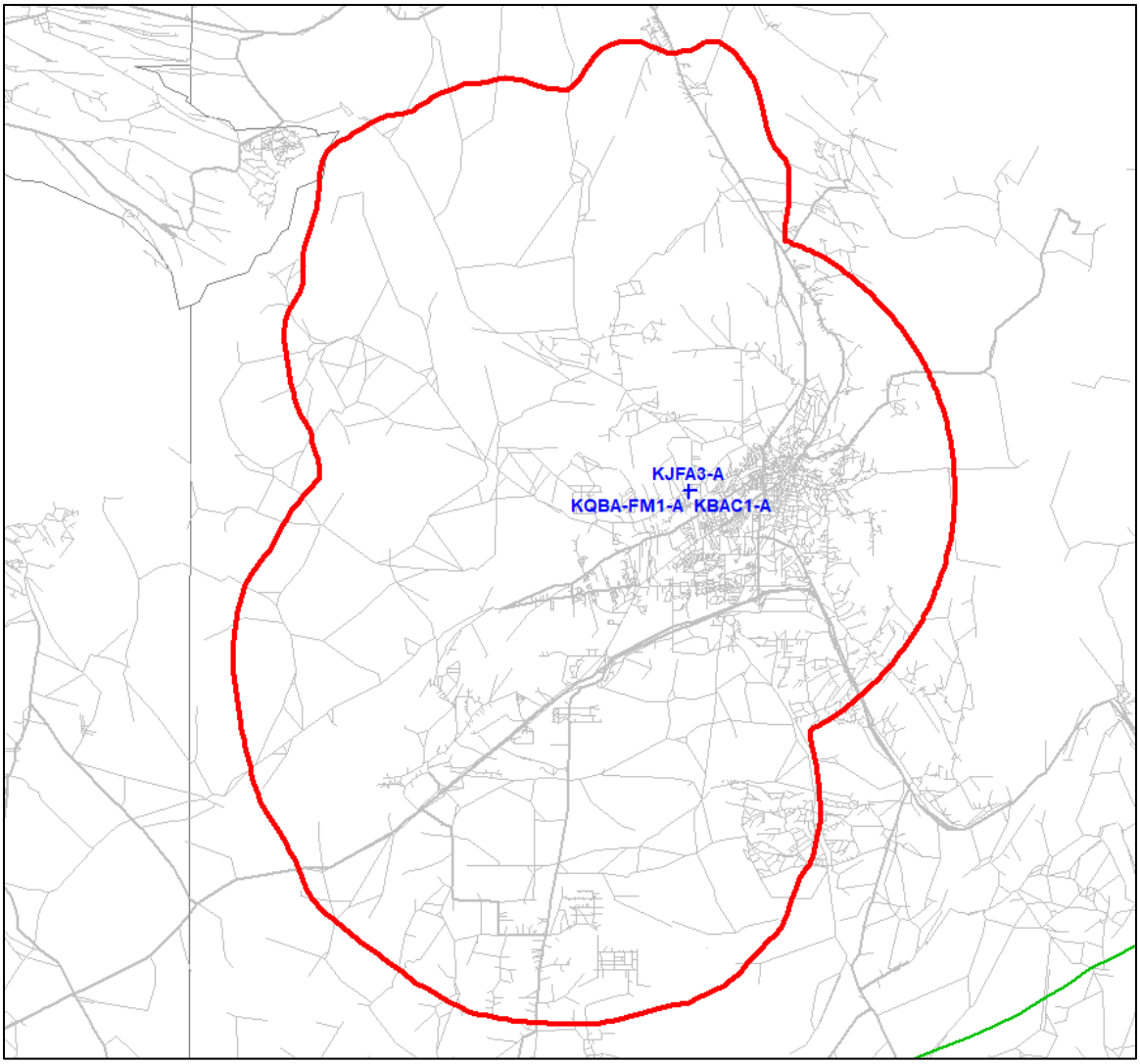
Minor change for **KLBU-FM2**
SANTA FE, NM
HUTTON BROADCASTING, LLC
BLFTB-20100125ADH

PROPOSED 60dBu F(50,50) SERVICE CONTOUR

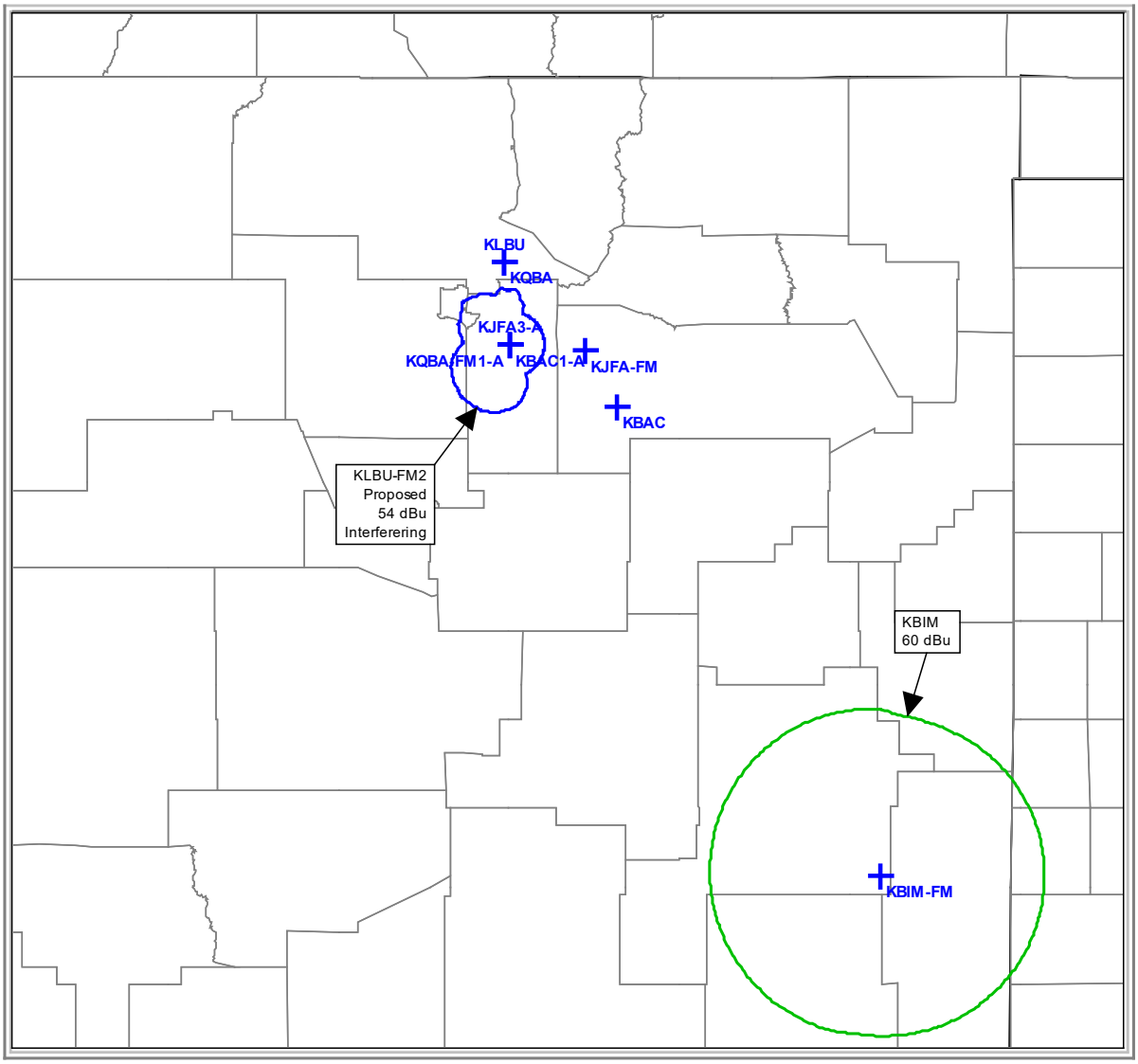


SANTA FE, NM ~ Channel 234D (94.7 MHz) ~ ERP 2.300 kW V/H DA
Elev: 2085 meters ~ RCAGL: 41 meters ~ RCAMSL: 2126 meters ~ HAAT: 23 meters
Support structure: 0 meters AGL
Overall tower height: 60 meters AGL ~ ASR: None (no airports within 5 miles)
NAD83 Latitude: 35° 40' 43.2" NL ~ Longitude: 105° 59' 30.0" WL
No impacted AM stations.
Combined Antenna: This facility along with the proposed FM booster for KQBA-FM will be combined into this antenna with existing K249FB and K279CX.
This application replaces expired CP file number 0000087107.

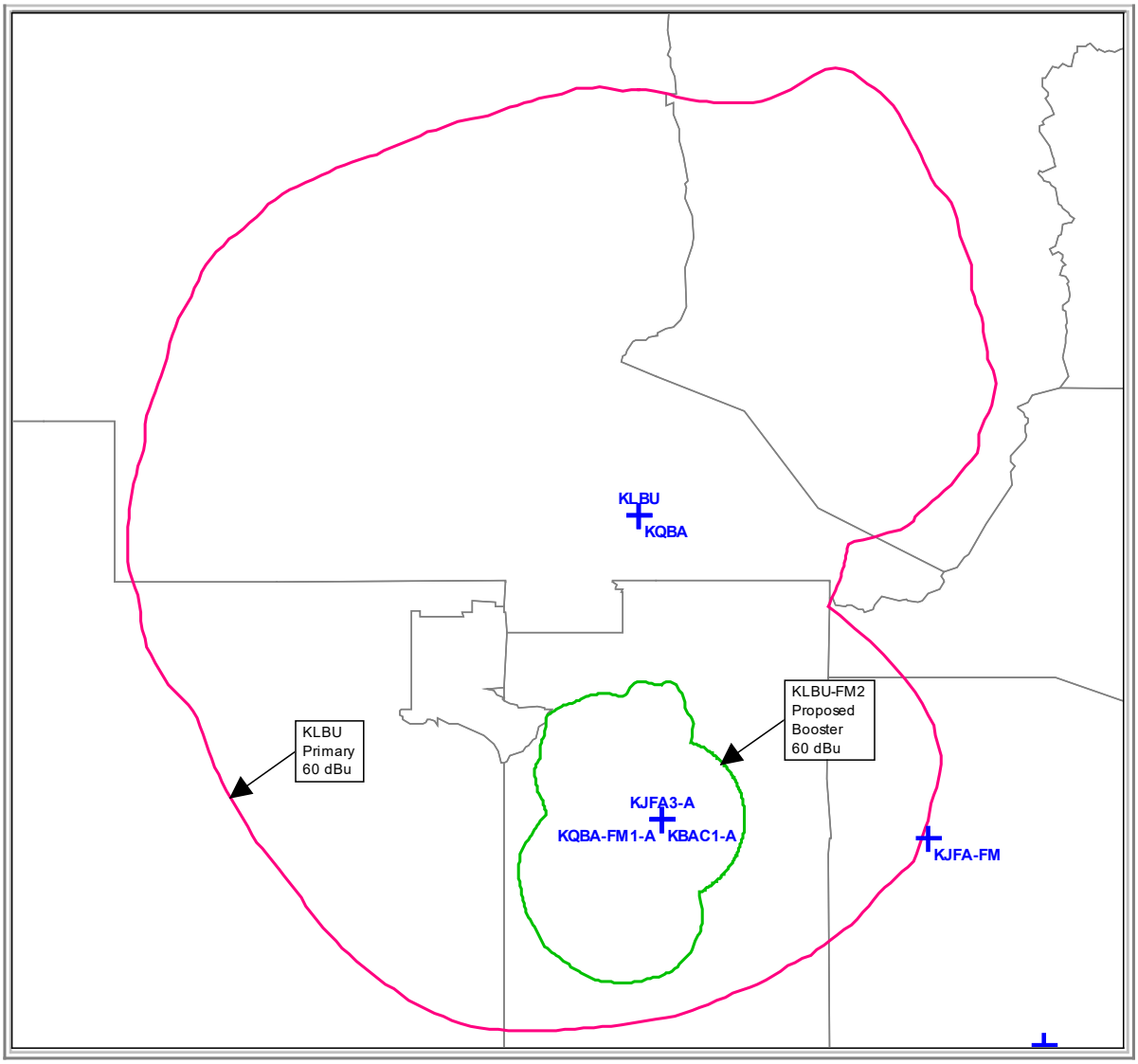
Site: KLBU-FM2-A
Coordinates: 35-40-43.2 N, 105-59-30.0 W
Freq: 94.70000 MHz
ERP: 2.30 kW

Bearing	ERP kW	HAAT	DH	Distance	Lat	Lon
0	2.08	83	170	20.28	35.861047	-105.991667
5	2.13	84	200	20.51	35.862439	-105.971828
10	2.17	68	270	18.54	35.842849	-105.955953
15	2.20	52	250	16.12	35.818742	-105.945376
20	2.22	35	360	13.13	35.789673	-105.941854
25	2.26	5	490	12.37	35.779449	-105.933731
30	2.30	-22	590	12.41	35.775337	-105.922860
35	2.28	-52	920	12.39	35.769921	-105.912893
40	2.26	-94	1280	12.37	35.763831	-105.903565
45	2.25	-143	1240	12.35	35.757193	-105.894852
50	2.24	-167	1210	12.34	35.749971	-105.886894
55	2.24	-177	970	12.34	35.742282	-105.879641
60	2.24	-230	930	12.34	35.734109	-105.873243
65	2.23	-235	810	12.33	35.725468	-105.867868
70	2.22	-264	720	12.31	35.716471	-105.863510
75	2.22	-271	850	12.31	35.707254	-105.859947
80	2.22	-210	690	12.31	35.697820	-105.857388
85	2.22	-174	690	12.31	35.688241	-105.855852
90	2.22	-248	560	12.31	35.678590	-105.855350
95	2.22	-297	640	12.31	35.668940	-105.855885
100	2.22	-274	550	12.31	35.659364	-105.857453
105	2.22	-250	430	12.31	35.649936	-105.860042
110	2.22	-224	410	12.31	35.640727	-105.863631
115	2.23	-175	300	12.33	35.631738	-105.868014
120	2.24	-148	390	12.34	35.623109	-105.873407
125	2.24	-133	430	12.34	35.614948	-105.879819
130	2.24	-104	110	12.34	35.607272	-105.887081
135	2.25	-83	170	12.35	35.600063	-105.895042
140	2.26	-48	160	12.37	35.593438	-105.903753
145	2.28	-18	150	12.39	35.587361	-105.913073
150	2.30	10	100	12.41	35.581957	-105.923027
155	2.28	39	200	13.92	35.565210	-105.926638
160	2.25	58	190	17.26	35.532751	-105.926413
165	2.19	72	160	19.10	35.512688	-105.937034
170	2.13	89	170	21.11	35.491654	-105.951168
175	2.04	105	180	22.70	35.475304	-105.969819
180	1.96	117	210	23.63	35.466155	-105.991667
185	1.83	129	180	24.24	35.461487	-106.014994
190	1.71	144	190	25.01	35.457124	-106.039622
195	1.58	156	290	25.49	35.457206	-106.064510
200	1.46	169	470	25.94	35.459391	-106.089632
205	1.34	179	380	26.11	35.465739	-106.113539
210	1.23	185	200	25.96	35.476361	-106.135034
215	1.14	189	210	25.77	35.488695	-106.154940
220	1.05	196	170	25.72	35.501308	-106.174329
225	0.97	196	210	25.31	35.517552	-106.189413
230	0.90	192	250	24.66	35.535943	-106.200423
235	0.86	192	300	24.35	35.552834	-106.212199
240	0.81	186	350	23.71	35.571815	-106.218745
245	0.78	177	400	23.02	35.590958	-106.222387
250	0.75	170	430	22.40	35.609546	-106.224496
255	0.73	159	390	21.61	35.628151	-106.222597
260	0.71	141	410	20.27	35.646812	-106.212570
265	0.71	122	400	18.85	35.663708	-106.199600
270	0.70	107	450	17.56	35.678510	-106.186104
275	0.71	103	670	17.23	35.692028	-106.181812
280	0.71	110	790	17.92	35.706491	-106.187101
285	0.73	122	740	19.01	35.722750	-106.195100
290	0.75	132	750	19.85	35.739563	-106.198395
295	0.78	134	780	20.20	35.755288	-106.194596
300	0.81	136	900	20.53	35.770838	-106.188773
305	0.86	142	870	21.24	35.788090	-106.184584
310	0.90	152	940	22.21	35.806950	-106.180395
315	0.98	154	990	22.79	35.823448	-106.170390
320	1.07	142	1010	22.36	35.832632	-106.151128
325	1.16	127	590	21.67	35.838234	-106.129558
330	1.25	119	580	21.45	35.845652	-106.110644
335	1.39	107	380	20.90	35.849006	-106.089684
340	1.52	92	300	19.80	35.845951	-106.066790
345	1.68	86	290	19.58	35.848790	-106.047909
350	1.85	93	290	20.87	35.863513	-106.031886
355	1.96	88	200	20.59	35.863138	-106.011581

KLBU-FM2 - First Adjacent Channel Protections



KLBU-FM2 - Booster Fill In Area



Map Scale: 1:842429 1 cm = 8.42 km V|H Size: 155.44 x 162.85 km

NEARBY AM FACILITIES
47 CFR 1 Subpart BB

Within 3 km of the proposed site, all AM towers are nondirectional with the longest wavelength being KKOB operating at 390 meters. The proposed facility is located at least 390 meters from any AM broadcast station. Therefore, notification to AM stations is not required.

Array Center Latitude	Longitude	Distance Req'd	Distance Actual	Elec. Degrees Req'd	Elec. Degrees Actual	Notify Station
KSWV 810 kHz (370 m) BL-20030918ACI Non-Directional (Daytime)						
35 42' 3.60"	105 57' 57.60"	370 m	3364 m	60	58.32	NO
KSWV 810 kHz (370 m) BL-20030918ACI Non-Directional (Nighttime)						
35 42' 3.60"	105 57' 57.60"	370 m	3364 m	60	58.32	NO
KKOB 770 kHz (390 m) BLEX-19871005AH Non-Directional (Unlimited)						
35 40' 55.20"	105 58' 22.80"	390 m	1680 m	60	55.44	NO
KVSF 1260 kHz (238 m) BL-19920813AE Non-Directional (Daytime)						
35 40' 55.20"	105 58' 22.80"	238 m	1680 m	60	90.72	NO
KVSF 1260 kHz (238 m) BL-19920813AE Non-Directional (Nighttime)						
35 40' 55.20"	105 58' 22.80"	238 m	1680 m	60	90.72	NO
KTRC 1400 kHz (214 m) BL-19970205AJ Non-Directional (Unlimited)						
35 40' 55.20"	105 58' 22.80"	214 m	1680 m	60	100.80	NO

NEPA COMPLIANCE

KBAC-FM1
Santa Fe, New Mexico
Channel 234D ~ 94.7 MHz

Using the Commission's FM MODEL tool, we have determined the peak power density from the tower with all proposed facilities to be as follows:
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Other tower occupants include:

Call	kW	Type	Above ground	Power Density	Peak Dist
KSFR	2.9-H/2.9-V	EPA-1/1 bay	50m	50.616	12.9m
KBAC-FM1*	4-V	EPA-1/2 bay	47m	62.744	8.8m
KJFA-FM3*	3.1-V	EPA-1/2 bay	47m	48.627	8.4m
K240EC	0.07-H/0.07-V	EPA-2/1 bay	45m	0.697	44m
K249FB	0.25-H/0.25-V	EPA-2/6 bay	41m	6.520	11.2m
K279CX	0.25-H/0.25-V	EPA-2/6 bay	41m	6.520	11.2m
KQBA-FM1*	2.34-H/2.34-V	EPA-2/6 bay	41m	11.569	11.2m
KLBU-FM2*	2.3-H/2.3-V	EPA-2/6 bay	41m	11.372	11.2m

** - Proposed facilities.*

As the sum of the peak power density at any distances exceeds 200 µW/cm² and due to the fact that there are multiple antennas at varying heights, we look further to determine the actual power density at various distances from the tower. This is done by using the FM Model tool to examine all locations within 50 meters of the tower site at 1 meter increments between 0 and 20 meters and 2 meter increments between 20 and 50 meters, as well as the peak distances of 8.8, 11.2 and 12.9 meters. Based on this study, we can conclude that the maximum power density for this tower reaches 187.0 µW/cm² at 11.2 meters from the tower base.

Therefore, it has been determined that there is no point that will exceed the general population/controlled exposure guideline of 200 µW/cm².

Prepared by,

/S/
Michelle Bradley, CBT
REC Networks

December 13, 2022

Distance from tower (m)	KSFR	KBAC-FM1	KJFA-FM1	K240EC	K249FB	K279CX	KOBA-FM1	KLBU-FM1	Total
0.0	42.1	53.6	41.5	0.2	0.8	0.8	7.5	7.3	153.8
1.0	42.6	54.2	42.0	0.2	0.8	0.8	7.6	7.5	155.7
2.0	43.2	54.8	42.5	0.2	0.8	0.8	7.7	7.6	157.6
3.0	43.7	55.3	42.9	0.2	0.8	0.8	7.9	7.7	159.3
4.0	44.2	55.9	43.3	0.2	0.9	0.9	8.3	8.2	161.9
5.0	45.3	57.7	44.7	0.2	1.0	1.0	8.9	8.8	167.6
6.0	46.6	59.5	46.1	0.2	1.0	1.0	9.5	9.4	173.3
7.0	47.9	61.2	47.4	0.2	1.1	1.1	10.1	9.9	178.9
8.0	49.2	62.7	48.6	0.3	1.1	1.1	10.7	10.5	184.2
8.8	49.8	62.7	48.6	0.3	1.2	1.2	11.1	10.9	185.8
9.0	49.9	62.7	48.6	0.3	1.2	1.2	11.1	10.9	185.9
10.0	50.2	62.7	48.6	0.3	1.2	1.2	11.4	11.2	186.8
11.0	50.4	62.5	48.4	0.3	1.2	1.2	11.6	11.4	187.0
11.2	50.4	62.5	48.4	0.3	1.2	1.2	11.6	11.4	187.0
12.0	50.5	62.2	48.2	0.3	1.2	1.2	11.5	11.3	186.4
12.9	50.6	61.8	47.9	0.3	1.2	1.2	11.2	11.0	185.2
13.0	50.6	61.7	47.8	0.3	1.1	1.1	11.2	11.0	184.8
14.0	50.6	61.1	47.3	0.4	1.1	1.1	10.6	10.4	182.6
15.0	50.5	60.3	46.7	0.4	1.0	1.0	9.8	9.6	179.3
16.0	50.4	59.5	46.1	0.4	0.9	0.9	8.7	8.6	175.5
17.0	50.2	58.8	45.6	0.4	0.8	0.8	7.5	7.4	171.5
18.0	50.2	58.2	45.1	0.5	0.7	0.7	6.2	6.1	167.7
19.0	50.2	57.5	44.5	0.5	0.5	0.5	4.8	4.8	163.3
20.0	50.2	56.6	43.9	0.5	0.4	0.4	3.5	3.5	159.0
22.0	50.1	53.8	41.7	0.5	0.2	0.2	1.4	1.4	149.3
24.0	49.2	50.1	38.8	0.6	0.0	0.0	0.3	0.3	139.3
26.0	48.0	46.2	35.8	0.6	0.0	0.0	0.1	0.1	130.8
28.0	46.9	43.1	33.4	0.6	0.1	0.1	0.6	0.6	125.4
30.0	46.0	39.7	30.8	0.6	0.1	0.1	1.2	1.2	119.7
32.0	45.1	36.1	28.0	0.6	0.2	0.2	1.6	1.6	113.4
34.0	44.0	31.8	24.6	0.7	0.2	0.2	1.6	1.6	104.7
36.0	42.3	27.8	21.5	0.7	0.1	0.1	1.3	1.2	95.0
38.0	40.6	24.1	18.7	0.7	0.1	0.1	0.7	0.7	85.7
40.0	39.0	20.7	16.0	0.7	0.0	0.0	0.3	0.3	77.0
42.0	37.5	17.6	13.6	0.7	0.0	0.0	0.0	0.0	69.4
44.0	36.1	14.8	11.5	0.7	0.0	0.0	0.0	0.0	63.1
46.0	34.7	12.3	9.5	0.7	0.0	0.0	0.2	0.2	57.6
48.0	33.4	10.0	7.7	0.7	0.0	0.0	0.5	0.4	52.7
50.0	32.0	8.0	6.2	0.7	0.0	0.0	0.7	0.7	48.3