

du Treil, Lundin & Rackley, Inc.

Consulting Engineers

TECHNICAL EXHIBIT
DTV MAXIMIZATION APPLICATION FOR
STATION KFVE-DT (FACILITY ID 34445)
HONOLULU, HAWAII

DECEMBER 5, 2008

CH 23 23 KW (MAX-DA) 629 M

TECHNICAL EXHIBIT
DTV MAXIMIZATION APPLICATION FOR
STATION KFVE-DT (FACILITY ID 34445)
HONOLULU, HAWAII
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STATION KFVE-DT (FACILITY ID 34445)
HONOLULU, HAWAII
CH 23 23 KW (MAX-DA) 629 M

Technical Narrative

This Technical Exhibit supports a minor modification application for digital television (DTV) station KFVE at Honolulu, Hawaii.¹ This application requests a construction permit (CP) for a digital television operation on channel 23 at Honolulu with a directional antenna and an effective radiated power (ERP) of 23 kilowatts. KFVE(DT) intends to use a master, Dielectric TUA-BP3SP-6/18M-1-S directional transmitting antenna for digital operation.

Proposed Facilities

Station KFVE proposes to operate on DTV channel 23 from its analog transmitter site located at *Mauna Kapu*. The antenna height above average terrain for the channel 23 DTV operation is 629 meters. The proposed site location is:

21° 24' 03" North Latitude
158° 06' 10" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1. The Appendix contains the vertical and horizontal plane radiation pattern for the proposed antenna system.

Figure 2 is a map showing the DTV predicted coverage contour and the associated proposed *Appendix B* noise-limited coverage contour. The extent of the contour has been calculated using the normal FCC prediction method. The Honolulu city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

¹ See FCC File Number: BMPCDT-20080317AFY

FCC Monitoring Station

The proposed KFVE(DT) transmitter site is located 11.1 kilometers (6.9 miles) away from the *Waipahu, Hawaii* FCC monitoring station. The KFVE-DT facility is designed to provide the necessary protection to the monitoring station.

Based upon discussions with FCC staff, the maximum permitted field at the *Waipahu* monitoring station for KGMB(DT) on Channel 22 is 69.57 mV/m, or 96.8 dBu. The proposed KFVE(DT) maximum effective radiated power is 3.0 kilowatts toward the monitoring station, 102.5 degrees azimuth true at a horizontal plane depression angle of 4.1 degrees. Using the free-space propagation model, the predicted KFVE-DT field strength at the monitoring station is 91 dBu. Since KFVE(DT) proposes the channel immediately adjacent to KGMB (Ch 22), it is believed the maximum permitted field strength of 96.8 dBu applies and, thus KFVE(DT), at 91 dBu, below the required limit.

Post-Transition Allocation Considerations

The proposed KFVE(DT) operation meets the FCC's interference standards to pertinent DTV Appendix B allotments using the procedures outlined in the FCC's OET-69 Bulletin and a 2 kilometer grid cell size as shown by the analysis provided in Figure 3.

Population Served

The herein proposed KFVE(DT) facility is predicted to serve 769,000 persons, post-transition based upon the 2000 Census. KFVE(DT)'s associated proposed Appendix B facility is predicted to serve 764,000 persons. Therefore, the herein proposed KFVE(DT) facility would serve greater than 100% of KGMB(DT)'s Appendix B population. The OET-69 studies were conducted using a standard cell size of 2.0 km/side and distance increments for Longley-Rice analysis of 1.0 km.

Radiofrequency Electromagnetic Field Exposure

The proposed KFVE(DT) facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The

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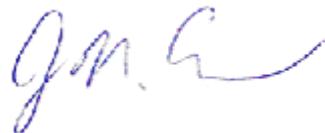
Page 3

Honolulu, Hawaii

radiation center for the proposed DTV antenna is located 49 meters above ground level with a maximum ERP of 23 kW. A conservative relative field value of 0.5 was assumed for the calculation. The calculated power density at a point 2 meters above ground level will not exceed 0.014 mW/cm^2 . This is less than 5% of the FCC's recommended limit of 0.35 mW/cm^2 for channel 23 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. As this is a multi-user site an agreement will control site access. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed KFVE(DT) operation appears to be otherwise categorically excluded from environmental processing.

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.

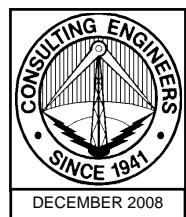


Jonathan N. Edwards

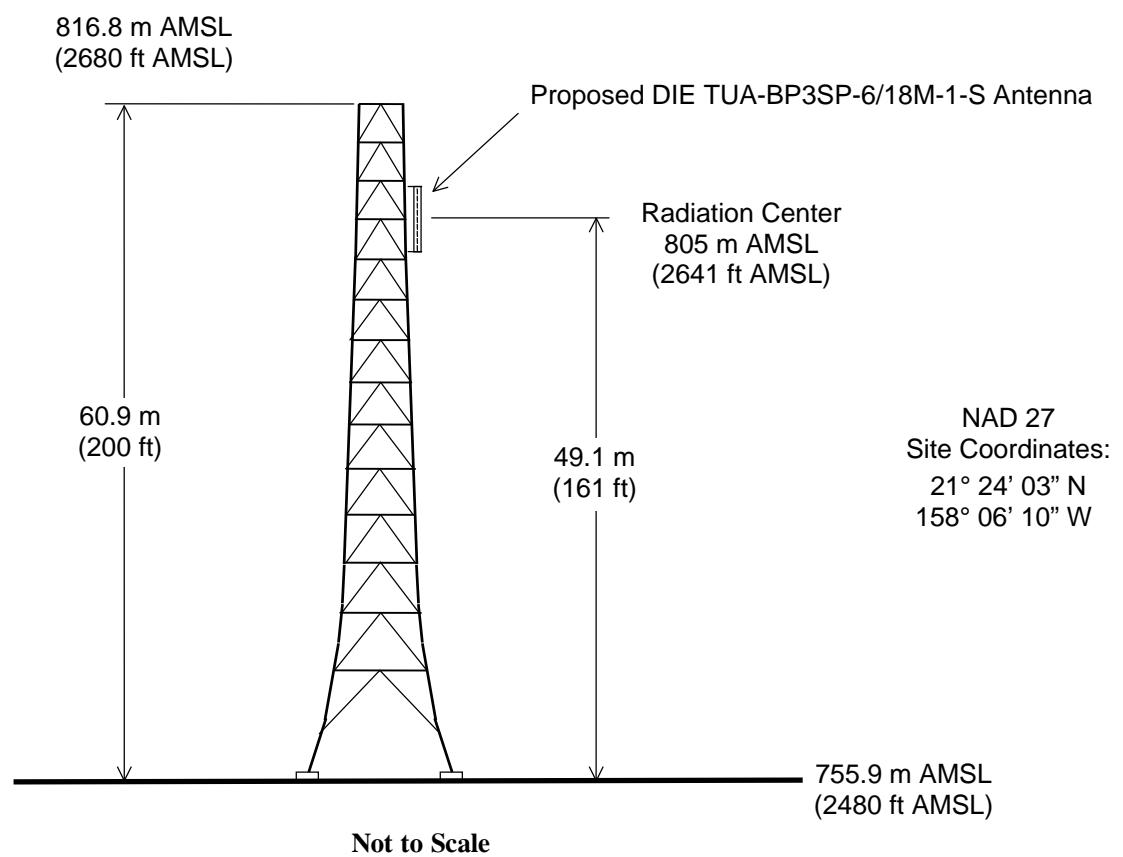
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December 5, 2008

Figure 1



Registration No. 1007114



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

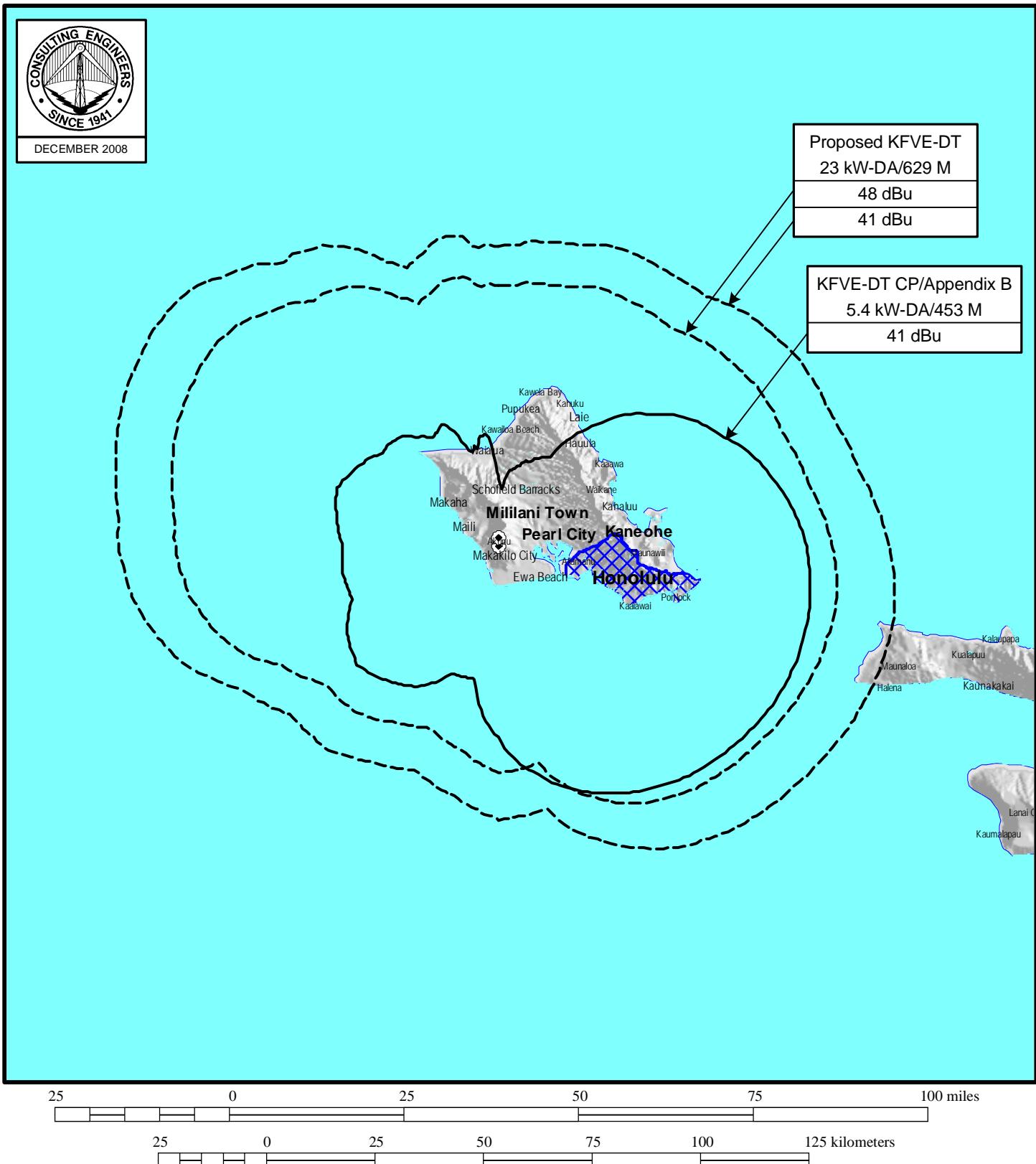
STATION KFVE(DT)

HONOLULU, HAWAII

CH 23 23 KW (MAX-DA) 629 M

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Figure 2



PREDICTED COVERAGE CONTOURS

STATION KFVE-DT

HONOLULU, HAWAII

CH 23 23 kW (MAX-DA) 629

du Treil, Lundin & Rackley, Inc Sarasota, Florida

Figure 3
Sheet 2 of 4

TW Census data selected 2000
Post Transition Data Base Selected /export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 12-05-2008 Time: 12:08:54
Record Selected for Analysis

KFVE USERRECORD-01 HONOLULU HI US
Channel 23 ERP 23. kW HAAT 666. m RCAMSL 00805 m
Latitude 021-24-03 Longitude 0158-06-10
Status APP Zone 2 Border
Dir Antenna Make usr Model 00000000KFVE23 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side
Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	6.832	360.5	67.1
45.0	6.018	559.8	75.6
90.0	17.596	725.1	89.5
135.0	13.063	761.8	88.0
180.0	0.617	749.0	64.9
225.0	0.432	766.8	62.8
270.0	12.386	772.8	87.8
315.0	17.630	631.2	86.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility is 11.1km from FCC Monitoring station at
Waipahu HI
Bearing: 102.5 degrees ERP: 22.93 kW HAAT: 764.2 m
Field = 69.4 mV/m

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Call	City/State	ARN
23	KFVE	HONOLULU HI	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KGMB-DR	HONOLULU HI	0.0	APP	BPRM -20080619ALQ
22	KGMB	HONOLULU HI	0.0	CP MOD	BMPCDT -20080317AGC
23	KWHH	HILO HI	361.0	LIC	BLCDT -20060628AAM
23	KWHH	HILO HI	361.0	PLN	DTVPLN -DTVP0841
24	KGMV	WAILUKU HI	198.4	CP MOD	BMPCDT -20080317ADA
24	KGMV	WAILUKU HI	206.0	PLN	DTVPLN -DTVP0880

%%%%%%%%%%%%%

Analysis of Interference to Affected Station 1

Channel	Call	City/State	Application Ref. No.
22	KGMB-DR	HONOLULU HI	BPRM -20080619ALQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
21	KWHM	WAILUKU HI	201.6	PLN	DTVPLN -DTVP0757
21	KWHM	WAILUKU HI	198.4	CP	BPCDT -20080411ABY
22	KHBC-TV	HILO HI	366.2	LIC	BLCDT -20021030ABX
22	KHBC-TV	HILO HI	366.2	PLN	DTVPLN -DTVP0799
22	KGMB	HONOLULU HI	0.0	CP MOD	BMPCDT -20080317AGC
23	KFVE	HONOLULU HI	2.1	PLN	DTVPLN -DTVP0842
23	KFVE	HONOLULU HI	0.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Channel	Call	City/State	Application Ref. No.
22	KGMB	HONOLULU HI	BMPCDT -20080317AGC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
21	KWHM	WAILUKU HI	201.6	PLN	DTVPLN -DTVP0757
21	KWHM	WAILUKU HI	198.4	CP	BPCDT -20080411ABY
22	KHBC-TV	HILO HI	366.2	LIC	BLCDT -20021030ABX
22	KHBC-TV	HILO HI	366.2	PLN	DTVPLN -DTVP0799
22	KGMB-DR	HONOLULU HI	0.0	APP	BPRM -20080619ALQ
23	KFVE	HONOLULU HI	2.1	PLN	DTVPLN -DTVP0842
23	KFVE	HONOLULU HI	0.0	APP	USERRECORD-01

Proposal causes no interference

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Figure 3
Sheet 3 of 4

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
23	KWHH	HILO HI	BLCDT -20060628AAM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KHBC-TV	HILO HI	7.2	LIC	BLCDT -20021030ABX
22	KHBC-TV	HILO HI	7.2	PLN	DTVPLN -DTVP0799
23	KFVE	HONOLULU HI	360.1	PLN	DTVPLN -DTVP0842
24	KGMV	WAILUKU HI	165.4	CP MOD	BMPCDT -20080317ADA
24	KGMV	WAILUKU HI	161.1	PLN	DTVPLN -DTVP0880
23	KFVE	HONOLULU HI	361.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
23	KWHH	HILO HI	DTVPLN -DTVP0841

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KHBC-TV	HILO HI	7.2	LIC	BLCDT -20021030ABX
22	KHBC-TV	HILO HI	7.2	PLN	DTVPLN -DTVP0799
23	KFVE	HONOLULU HI	360.1	PLN	DTVPLN -DTVP0842
24	KGMV	WAILUKU HI	165.4	CP MOD	BMPCDT -20080317ADA
24	KGMV	WAILUKU HI	161.1	PLN	DTVPLN -DTVP0880
23	KFVE	HONOLULU HI	361.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
24	KGMV	WAILUKU HI	BMPCDT -20080317ADA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	KWHH	HILO HI	165.4	LIC	BLCDT -20060628AAM
23	KWHH	HILO HI	165.4	PLN	DTVPLN -DTVP0841
23	KFVE	HONOLULU HI	197.8	PLN	DTVPLN -DTVP0842
25	KLEI	KAILUA KONA HI	114.1	PLN	DTVPLN -DTVP0920
25	KLEI	KAILUA-KONA HI	114.1	LIC	BLCDT -20070202ABM
23	KFVE	HONOLULU HI	198.4	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
24	KGMV	WAILUKU HI	DTVPLN -DTVP0880

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	KWHH	HILO HI	161.1	LIC	BLCDT -20060628AAM
23	KWHH	HILO HI	161.1	PLN	DTVPLN -DTVP0841
23	KFVE	HONOLULU HI	205.4	PLN	DTVPLN -DTVP0842
25	KLEI	KAILUA KONA HI	115.6	PLN	DTVPLN -DTVP0920
25	KLEI	KAILUA-KONA HI	115.6	LIC	BLCDT -20070202ABM
23	KFVE	HONOLULU HI	206.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
23	KFVE	HONOLULU HI	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KGMB-DR	HONOLULU HI	0.0	APP	BPRM -20080619ALQ
22	KGMB	HONOLULU HI	0.0	CP MOD	BMPCDT -20080317AGC
23	KWHH	HILO HI	361.0	LIC	BLCDT -20060628AAM
23	KWHH	HILO HI	361.0	PLN	DTVPLN -DTVP0841
24	KGMV	WAILUKU HI	198.4	CP MOD	BMPCDT -20080317ADA
24	KGMV	WAILUKU HI	206.0	PLN	DTVPLN -DTVP0880

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 7

Before Analysis

Results for: 23A HI HONOLULU USERRECORD01 APP

HAAT	666.0 m, ATV ERP	23.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			876302	20587.3
not affected by terrain losses			768584	17138.5
lost to NTSC IX			0	0.0
lost to additional IX by ATV			0	0.0
lost to ATV IX only			0	0.0
lost to all IX			0	0.0

Potential Interfering Stations Included in above Scenario 1

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

Figure 3
Sheet 4 of 4

APPENDIX

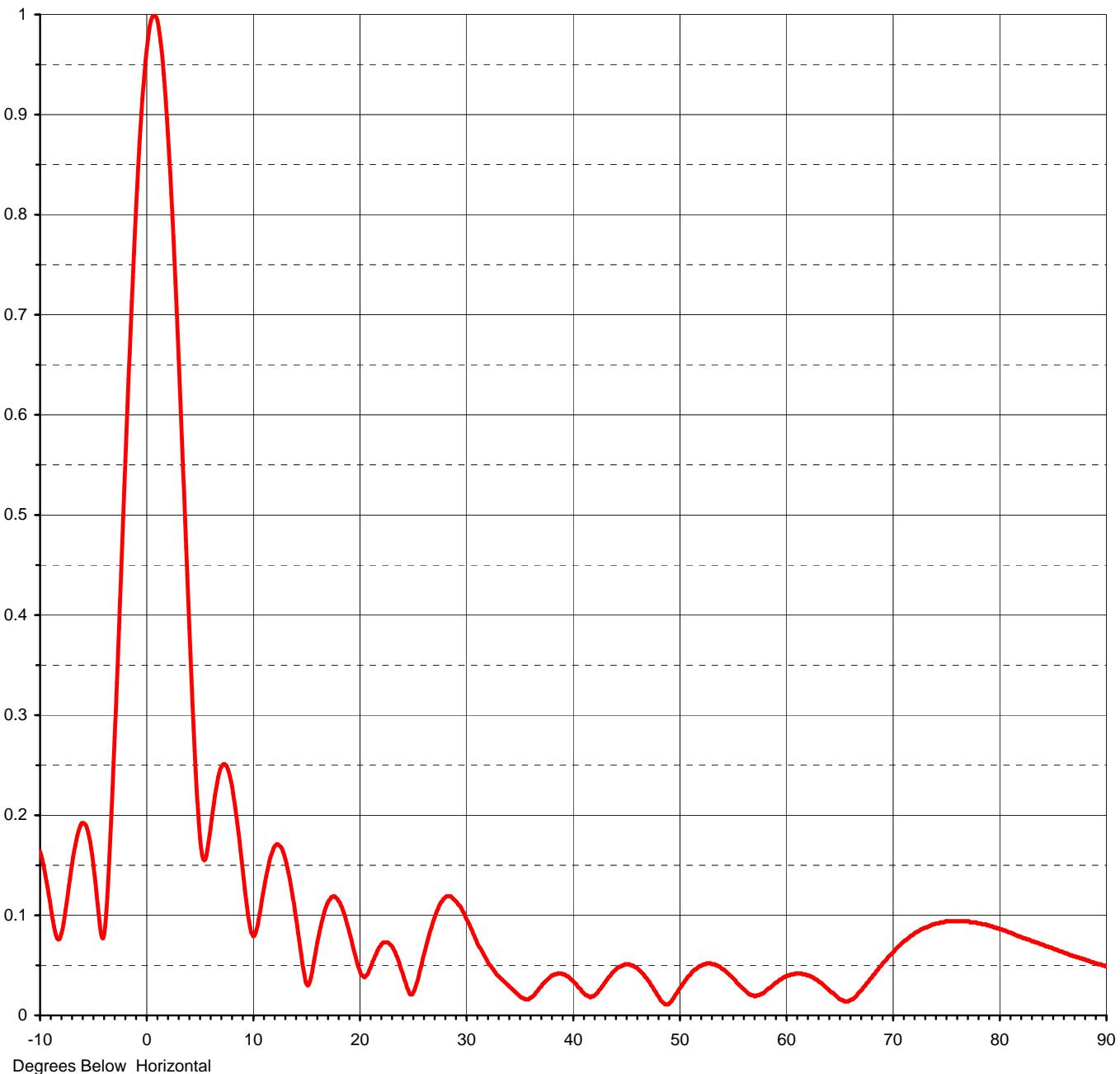
TRANSMITTING ANTENNA
VERTICAL AND HORIZONTAL
PLANE PATTERN

Proposal Number **C-02093**
 Date **29-Sep-08**
 Call Letters **KFVE**
 Location **Oahu, HI**
 Customer
 Antenna Type **TUA-BP3SP-6/18M-1-S**

Revision: **1**
 Channel **23**

ELEVATION PATTERN

RMS Gain at Main Lobe	12.40 (10.93 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	11.50 (10.61 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated	Drawing #	06U124075-90





Proposal Number **C-02093**
Date **29-Sep-08**
Call Letters **KFVE**
Location **Oahu, HI**
Customer
Antenna Type **TUA-BP3SP-6/18M-1-S**

Revision: **1**
Channel **23**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **06U124075-90**

Angle	Field										
-10.0	0.164	2.4	0.800	10.6	0.096	30.5	0.087	51.0	0.040	71.5	0.078
-9.5	0.140	2.6	0.755	10.8	0.108	31.0	0.075	51.5	0.046	72.0	0.082
-9.0	0.108	2.8	0.707	11.0	0.121	31.5	0.065	52.0	0.049	72.5	0.085
-8.5	0.080	3.0	0.656	11.5	0.149	32.0	0.055	52.5	0.051	73.0	0.088
-8.0	0.082	3.2	0.603	12.0	0.167	32.5	0.047	53.0	0.052	73.5	0.090
-7.5	0.113	3.4	0.549	12.5	0.170	33.0	0.040	53.5	0.050	74.0	0.092
-7.0	0.151	3.6	0.494	13.0	0.160	33.5	0.035	54.0	0.047	74.5	0.093
-6.5	0.180	3.8	0.440	13.5	0.137	34.0	0.030	54.5	0.043	75.0	0.094
-6.0	0.192	4.0	0.387	14.0	0.104	34.5	0.025	55.0	0.038	75.5	0.094
-5.5	0.183	4.2	0.335	14.5	0.067	35.0	0.020	55.5	0.032	76.0	0.094
-5.0	0.150	4.4	0.287	15.0	0.034	35.5	0.017	56.0	0.027	76.5	0.094
-4.5	0.101	4.6	0.243	15.5	0.038	36.0	0.017	56.5	0.022	77.0	0.094
-4.0	0.081	4.8	0.206	16.0	0.067	36.5	0.021	57.0	0.020	77.5	0.093
-3.5	0.158	5.0	0.177	16.5	0.093	37.0	0.028	57.5	0.020	78.0	0.092
-3.0	0.278	5.2	0.160	17.0	0.111	37.5	0.034	58.0	0.023	78.5	0.091
-2.8	0.332	5.4	0.155	17.5	0.118	38.0	0.039	58.5	0.027	79.0	0.090
-2.6	0.387	5.6	0.160	18.0	0.116	38.5	0.041	59.0	0.032	79.5	0.088
-2.4	0.442	5.8	0.173	18.5	0.105	39.0	0.042	59.5	0.036	80.0	0.086
-2.2	0.499	6.0	0.188	19.0	0.087	39.5	0.039	60.0	0.039	80.5	0.085
-2.0	0.554	6.2	0.205	19.5	0.066	40.0	0.035	60.5	0.041	81.0	0.083
-1.8	0.609	6.4	0.220	20.0	0.047	40.5	0.029	61.0	0.042	81.5	0.080
-1.6	0.662	6.6	0.232	20.5	0.038	41.0	0.023	61.5	0.042	82.0	0.078
-1.4	0.713	6.8	0.242	21.0	0.046	41.5	0.019	62.0	0.040	82.5	0.076
-1.2	0.761	7.0	0.248	21.5	0.059	42.0	0.019	62.5	0.038	83.0	0.074
-1.0	0.806	7.2	0.251	22.0	0.069	42.5	0.025	63.0	0.035	83.5	0.073
-0.8	0.847	7.4	0.250	22.5	0.073	43.0	0.032	63.5	0.031	84.0	0.071
-0.6	0.884	7.6	0.246	23.0	0.070	43.5	0.039	64.0	0.026	84.5	0.069
-0.4	0.916	7.8	0.239	23.5	0.060	44.0	0.045	64.5	0.021	85.0	0.067
-0.2	0.943	8.0	0.229	24.0	0.045	44.5	0.049	65.0	0.016	85.5	0.065
0.0	0.965	8.2	0.215	24.5	0.028	45.0	0.051	65.5	0.014	86.0	0.063
0.2	0.982	8.4	0.200	25.0	0.021	45.5	0.050	66.0	0.015	86.5	0.061
0.4	0.994	8.6	0.183	25.5	0.035	46.0	0.048	66.5	0.019	87.0	0.059
0.6	0.999	8.8	0.164	26.0	0.057	46.5	0.043	67.0	0.025	87.5	0.057
0.8	0.999	9.0	0.145	26.5	0.077	47.0	0.037	67.5	0.032	88.0	0.056
1.0	0.994	9.2	0.126	27.0	0.095	47.5	0.029	68.0	0.038	88.5	0.054
1.2	0.981	9.4	0.109	27.5	0.109	48.0	0.020	68.5	0.045	89.0	0.052
1.4	0.964	9.6	0.094	28.0	0.117	48.5	0.013	69.0	0.052	89.5	0.051
1.6	0.940	9.8	0.088	28.5	0.119	49.0	0.011	69.5	0.058	90.0	0.049
1.8	0.912	10.0	0.081	29.0	0.115	49.5	0.017	70.0	0.063		
2.0	0.879	10.2	0.080	29.5	0.109	50.0	0.026	70.5	0.069		
2.2	0.842	10.4	0.086	30.0	0.098	50.5	0.033	71.0	0.074		

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Proposal Number

C-02093Revision: **1**

Date

29-Sep-08

Call Letters

KFVE

Channel

23

Location

Oahu, HI

Customer

Antenna Type

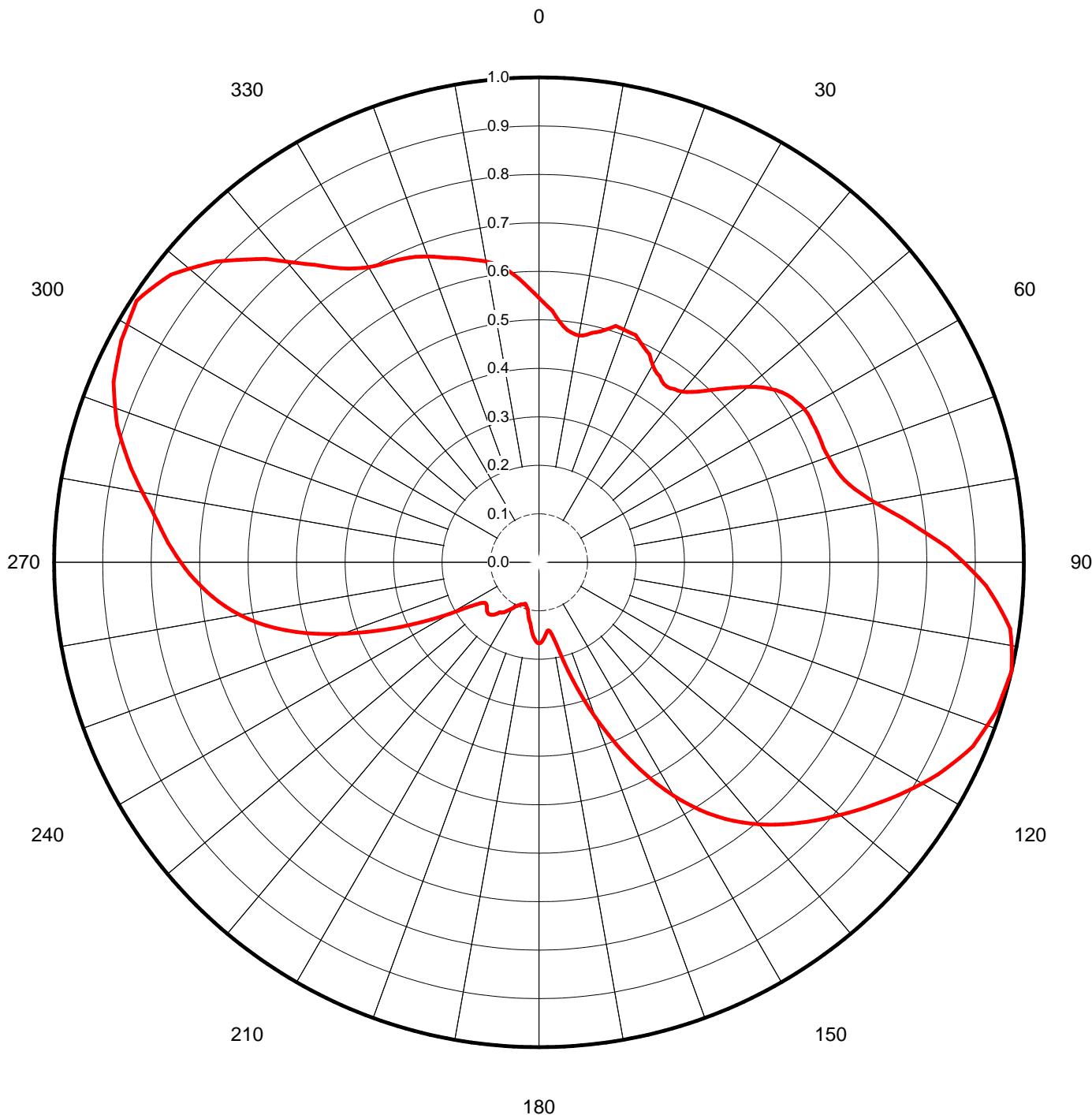
TUA-BP3SP-6/18M-1-S

AZIMUTH PATTERN

Gain **2.46**
 Calculated / Measured **(3.91 dB)**
Calculated

Frequency
 Drawing #

527.00 MHz
TUA-P3SP-5270





Proposal Number

C-02093

Revision:

1

Date

29-Sep-08

Call Letters

KFVE

Channel

23

Location

Oahu, HI

Customer

Antenna Type

TUA-BP3SP-6/18M-1-S**TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **TUA-P3SP-5270**

Angle	Field																
0	0.545	45	0.502	90	0.876	135	0.760	180	0.167	225	0.149	270	0.739	315	0.882		
1	0.536	46	0.514	91	0.892	136	0.749	181	0.166	226	0.148	271	0.748	316	0.868		
2	0.527	47	0.526	92	0.908	137	0.739	182	0.164	227	0.146	272	0.757	317	0.855		
3	0.520	48	0.538	93	0.924	138	0.728	183	0.160	228	0.144	273	0.766	318	0.842		
4	0.508	49	0.551	94	0.936	139	0.717	184	0.155	229	0.142	274	0.774	319	0.825		
5	0.497	50	0.563	95	0.947	140	0.705	185	0.149	230	0.141	275	0.782	320	0.809		
6	0.489	51	0.575	96	0.959	141	0.693	186	0.143	231	0.139	276	0.791	321	0.795		
7	0.482	52	0.585	97	0.970	142	0.681	187	0.135	232	0.139	277	0.800	322	0.781		
8	0.479	53	0.595	98	0.981	143	0.668	188	0.127	233	0.139	278	0.809	323	0.768		
9	0.476	54	0.604	99	0.986	144	0.654	189	0.124	234	0.142	279	0.820	324	0.754		
10	0.475	55	0.611	100	0.990	145	0.640	190	0.119	235	0.147	280	0.830	325	0.742		
11	0.476	56	0.618	101	0.993	146	0.625	191	0.114	236	0.155	281	0.841	326	0.732		
12	0.480	57	0.622	102	0.997	147	0.609	192	0.108	237	0.165	282	0.852	327	0.722		
13	0.486	58	0.625	103	1.000	148	0.592	193	0.101	238	0.177	283	0.864	328	0.715		
14	0.489	59	0.629	104	0.998	149	0.574	194	0.099	239	0.194	284	0.874	329	0.708		
15	0.493	60	0.632	105	0.996	150	0.556	195	0.096	240	0.212	285	0.884	330	0.703		
16	0.499	61	0.633	106	0.995	151	0.537	196	0.094	241	0.231	286	0.894	331	0.699		
17	0.505	62	0.634	107	0.993	152	0.517	197	0.092	242	0.251	287	0.905	332	0.696		
18	0.513	63	0.633	108	0.992	153	0.496	198	0.090	243	0.272	288	0.915	333	0.693		
19	0.511	64	0.634	109	0.988	154	0.475	199	0.091	244	0.294	289	0.922	334	0.691		
20	0.511	65	0.634	110	0.984	155	0.453	200	0.092	245	0.316	290	0.930	335	0.688		
21	0.510	66	0.633	111	0.980	156	0.431	201	0.093	246	0.338	291	0.938	336	0.686		
22	0.509	67	0.633	112	0.976	157	0.408	202	0.094	247	0.361	292	0.945	337	0.683		
23	0.509	68	0.633	113	0.972	158	0.384	203	0.094	248	0.383	293	0.953	338	0.679		
24	0.504	69	0.634	114	0.964	159	0.363	204	0.096	249	0.408	294	0.957	339	0.675		
25	0.498	70	0.635	115	0.956	160	0.341	205	0.098	250	0.431	295	0.962	340	0.671		
26	0.493	71	0.637	116	0.948	161	0.318	206	0.099	251	0.455	296	0.966	341	0.666		
27	0.489	72	0.639	117	0.940	162	0.296	207	0.101	252	0.478	297	0.971	342	0.662		
28	0.485	73	0.643	118	0.932	163	0.274	208	0.103	253	0.500	298	0.976	343	0.657		
29	0.477	74	0.647	119	0.922	164	0.253	209	0.106	254	0.521	299	0.978	344	0.653		
30	0.469	75	0.653	120	0.912	165	0.232	210	0.110	255	0.541	300	0.980	345	0.649		
31	0.463	76	0.660	121	0.902	166	0.211	211	0.113	256	0.560	301	0.983	346	0.645		
32	0.459	77	0.669	122	0.893	167	0.191	212	0.116	257	0.579	302	0.986	347	0.641		
33	0.457	78	0.680	123	0.883	168	0.174	213	0.119	258	0.596	303	0.990	348	0.637		
34	0.452	79	0.692	124	0.872	169	0.161	214	0.123	259	0.611	304	0.985	349	0.634		
35	0.449	80	0.705	125	0.862	170	0.151	215	0.126	260	0.626	305	0.980	350	0.630		
36	0.448	81	0.720	126	0.851	171	0.144	216	0.128	261	0.640	306	0.975	351	0.625		
37	0.450	82	0.737	127	0.841	172	0.142	217	0.130	262	0.653	307	0.969	352	0.619		
38	0.453	83	0.754	128	0.831	173	0.142	218	0.131	263	0.665	308	0.963	353	0.613		
39	0.455	84	0.771	129	0.821	174	0.146	219	0.136	264	0.677	309	0.952	354	0.605		
40	0.460	85	0.788	130	0.811	175	0.151	220	0.140	265	0.688	310	0.942	355	0.596		
41	0.465	86	0.806	131	0.800	176	0.156	221	0.143	266	0.699	311	0.931	356	0.586		
42	0.473	87	0.825	132	0.790	177	0.160	222	0.146	267	0.710	312	0.920	357	0.575		
43	0.481	88	0.844	133	0.780	178	0.164	223	0.147	268	0.720	313	0.910	358	0.565		
44	0.491	89	0.860	134	0.770	179	0.166	224	0.149	269	0.730	314	0.896	359	0.555		

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