

Callsign : NEW  
 Coordinates : 39-32-04.0 N, 75-42-37.0 W  
 Frequency (MHz): 97.10000  
 HAAT (m): 51.45 AMSL (m): 60.00  
 Elevation (m): 11.00 Tower AGL (m): 49.00  
 ERP (w): 80  
 City/State : MIDDLETOWN, DE  
 ARN : BNPFT20030317KUY  
 Distance (km): 0  
 Licensee : FRANCIS TAFELSKI

Contour type : F(50,10)  
 Signal strength : 94.000 dBu  
 Contour HAAT (m) : 50.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	10	50	1.1	90	5	55	1.2	180	10	50	1.1	270	8	52	1.2
5	10	50	1.1	95	4	56	1.2	185	10	50	1.1	275	11	49	1.1
10	10	50	1.1	100	4	56	1.2	190	10	50	1.1	280	11	49	1.1
15	10	50	1.1	105	4	56	1.2	195	10	50	1.1	285	10	50	1.1
20	10	50	1.1	110	4	56	1.2	200	10	50	1.1	290	8	52	1.2
25	10	50	1.1	115	4	56	1.2	205	10	50	1.1	295	11	49	1.1
30	10	50	1.1	120	5	55	1.2	210	10	50	1.1	300	12	48	1.1
35	10	50	1.1	125	5	55	1.2	215	10	50	1.1	305	12	48	1.1
40	7	53	1.2	130	5	55	1.2	220	10	50	1.1	310	13	47	1.1
45	6	54	1.2	135	6	54	1.2	225	10	50	1.1	315	14	46	1.1
50	5	55	1.2	140	7	53	1.2	230	8	52	1.2	320	19	41	1.1
55	5	55	1.2	145	9	51	1.1	235	8	52	1.2	325	18	42	1.1
60	5	55	1.2	150	10	50	1.1	240	9	51	1.1	330	19	41	1.1
65	4	56	1.2	155	10	50	1.1	245	9	51	1.1	335	21	39	1.1
70	5	55	1.2	160	10	50	1.1	250	10	50	1.1	340	23	37	1.1
75	4	56	1.2	165	10	50	1.1	255	10	50	1.1	345	18	42	1.1
80	4	56	1.2	170	10	50	1.1	260	8	52	1.2	350	12	48	1.1
85	5	55	1.2	175	10	50	1.1	265	8	52	1.2	355	12	48	1.1

Contour type : F(50,50)  
 Signal strength : 60.000 dBu  
 Contour HAAT (m) : 50.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	10	50	6.9	90	5	55	7.2	180	10	50	6.9	270	8	52	7
30	10	50	6.9	120	5	55	7.2	210	10	50	6.9	300	12	48	6.7
60	5	55	7.2	150	10	50	6.9	240	9	51	6.9	330	19	41	6.2

Contour type : F(50,10)  
 Signal strength : 54.000 dBu  
 Contour HAAT (m) : 50.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
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0	10	50	9.9	90	5	55	10	180	10	50	9.9	270	8	52	10
5	10	50	9.9	95	4	56	11	185	10	50	9.9	275	11	49	9.8
10	10	50	9.9	100	4	56	11	190	10	50	9.9	280	11	49	9.8
15	10	50	9.9	105	4	56	11	195	10	50	9.9	285	10	50	9.9
20	10	50	9.9	110	4	56	11	200	10	50	9.9	290	8	52	10
25	10	50	9.9	115	4	56	11	205	10	50	9.9	295	11	49	9.8
30	10	50	9.9	120	5	55	10	210	10	50	9.9	300	12	48	9.7
35	10	50	9.9	125	5	55	10	215	10	50	9.9	305	12	48	9.7
40	7	53	10	130	5	55	10	220	10	50	9.9	310	13	47	9.6
45	6	54	10	135	6	54	10	225	10	50	9.9	315	14	46	9.5
50	5	55	10	140	7	53	10	230	8	52	10	320	19	41	8.9
55	5	55	10	145	9	51	10	235	8	52	10	325	18	42	9
60	5	55	10	150	10	50	9.9	240	9	51	10	330	19	41	8.9
65	4	56	11	155	10	50	9.9	245	9	51	10	335	21	39	8.6
70	5	55	10	160	10	50	9.9	250	10	50	9.9	340	23	37	8.4
75	4	56	11	165	10	50	9.9	255	10	50	9.9	345	18	42	9
80	4	56	11	170	10	50	9.9	260	8	52	10	350	12	48	9.7
85	5	55	10	175	10	50	9.9	265	8	52	10	355	12	48	9.7

Contour type : F(50,10)

Signal strength : 48.000 dBu

Contour HAAT (m) : 50.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	10	50	14	90	5	55	15	180	10	50	14	270	8	52	14
5	10	50	14	95	4	56	15	185	10	50	14	275	11	49	14
10	10	50	14	100	4	56	15	190	10	50	14	280	11	49	14
15	10	50	14	105	4	56	15	195	10	50	14	285	10	50	14
20	10	50	14	110	4	56	15	200	10	50	14	290	8	52	14
25	10	50	14	115	4	56	15	205	10	50	14	295	11	49	14
30	10	50	14	120	5	55	15	210	10	50	14	300	12	48	14
35	10	50	14	125	5	55	15	215	10	50	14	305	12	48	14
40	7	53	14	130	5	55	15	220	10	50	14	310	13	47	13
45	6	54	14	135	6	54	14	225	10	50	14	315	14	46	13
50	5	55	15	140	7	53	14	230	8	52	14	320	19	41	13
55	5	55	15	145	9	51	14	235	8	52	14	325	18	42	13
60	5	55	15	150	10	50	14	240	9	51	14	330	19	41	13
65	4	56	15	155	10	50	14	245	9	51	14	335	21	39	12
70	5	55	15	160	10	50	14	250	10	50	14	340	23	37	12
75	4	56	15	165	10	50	14	255	10	50	14	345	18	42	13
80	4	56	15	170	10	50	14	260	8	52	14	350	12	48	14
85	5	55	15	175	10	50	14	265	8	52	14	355	12	48	14

Contour type : F(50,10)

Signal strength : 40.000 dBu

Contour HAAT (m) : 50.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	10	50	23	90	5	55	24	180	10	50	23	270	8	52	24
5	10	50	23	95	4	56	24	185	10	50	23	275	11	49	23

10	10	50	23	100	4	56	24	190	10	50	23	280	11	49	23
15	10	50	23	105	4	56	24	195	10	50	23	285	10	50	23
20	10	50	23	110	4	56	24	200	10	50	23	290	8	52	24
25	10	50	23	115	4	56	24	205	10	50	23	295	11	49	23
30	10	50	23	120	5	55	24	210	10	50	23	300	12	48	23
35	10	50	23	125	5	55	24	215	10	50	23	305	12	48	23
40	7	53	24	130	5	55	24	220	10	50	23	310	13	47	22
45	6	54	24	135	6	54	24	225	10	50	23	315	14	46	22
50	5	55	24	140	7	53	24	230	8	52	24	320	19	41	21
55	5	55	24	145	9	51	23	235	8	52	24	325	18	42	21
60	5	55	24	150	10	50	23	240	9	51	23	330	19	41	21
65	4	56	24	155	10	50	23	245	9	51	23	335	21	39	20
70	5	55	24	160	10	50	23	250	10	50	23	340	23	37	20
75	4	56	24	165	10	50	23	255	10	50	23	345	18	42	21
80	4	56	24	170	10	50	23	260	8	52	24	350	12	48	23
85	5	55	24	175	10	50	23	265	8	52	24	355	12	48	23

Callsign : WPTP  
 Coordinates : 40-02-21.0 N, 75-14-13.0 W  
 Frequency (MHz): 96.50000  
 HAAT (m): 266.58 AMSL (m): 330.00  
 Elevation (m): 60.00 Tower AGL (m): 270.00  
 ERP (w): 17000  
 City/State : PHILADELPHIA, PA  
 ARN : BLH19871112KA  
 Distance (km): 69.17  
 Licensee : WDAS LICENSE LIMITED PARTNERSHIP

Contour type : F(50,50)  
 Signal strength : 54.000 dBu  
 Contour HAAT (m) : 266.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	74	256	65	90	46	284	67	180	34	296	68	270	114	216	62
5	72	258	65	95	36	294	68	185	37	293	68	275	116	214	61
10	73	257	65	100	34	296	68	190	38	292	68	280	119	211	61
15	71	259	65	105	32	298	68	195	41	289	68	285	95	235	63
20	73	257	65	110	30	300	68	200	48	282	67	290	82	248	64
25	82	248	64	115	27	303	69	205	59	271	66	295	67	263	66
30	88	242	64	120	27	303	69	210	63	267	66	300	55	275	67
35	95	235	63	125	23	307	69	215	69	261	65	305	47	283	67
40	95	235	63	130	23	307	69	220	82	248	64	310	41	289	68
45	98	232	63	135	16	314	70	225	81	249	64	315	44	286	67
50	93	237	63	140	17	313	69	230	85	245	64	320	52	278	67
55	81	249	64	145	17	313	69	235	89	241	64	325	64	266	66
60	77	253	65	150	19	311	69	240	93	237	63	330	67	263	66
65	74	256	65	155	25	305	69	245	99	231	63	335	76	254	65
70	72	258	65	160	27	303	69	250	97	233	63	340	79	251	65
75	65	265	66	165	30	300	68	255	104	226	63	345	79	251	65
80	54	276	67	170	30	300	68	260	104	226	63	350	81	249	64

85 48 282 67 175 34 296 68 265 107 223 62 355 81 249 64

Callsign : WLAN-FM  
Coordinates : 40-02-52.0 N, 76-27-25.0 W  
Comments : Grandfathered at 50 kW ERP / 152 meters HAAT  
Frequency (MHz): 96.90000  
HAAT (m): 155.05 AMSL (m): 279.00  
Elevation (m): 180.00 Tower AGL (m): 99.00  
ERP (w): 50000  
City/State : LANCASTER, PA  
ARN : BLH19800930AF  
Distance (km): 85.67  
Licensee : CLEAR CHANNEL BROADCASTING LICENSES, INC.

Contour type : F(50,50)  
Signal strength : 54.000 dBu  
Contour HAAT (m) : 158.0

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	142	137	63	90	112	167	67	180	115	164	67	270	140	139	64
5	136	143	64	95	110	169	67	185	104	175	68	275	109	170	68
10	132	147	65	100	105	174	68	190	109	170	68	280	102	177	68
15	132	147	65	105	105	174	68	195	118	161	67	285	109	170	68
20	121	158	66	110	103	176	68	200	116	163	67	290	117	162	67
25	123	156	66	115	106	173	68	205	128	151	65	295	116	163	67
30	126	153	66	120	107	172	68	210	132	147	65	300	113	166	67
35	124	155	66	125	110	169	67	215	133	146	65	305	117	162	67
40	124	155	66	130	106	173	68	220	136	143	64	310	116	163	67
45	121	158	66	135	103	176	68	225	140	139	64	315	118	161	67
50	124	155	66	140	103	176	68	230	159	120	61	320	119	160	66
55	126	153	66	145	105	174	68	235	165	114	60	325	123	156	66
60	128	151	65	150	102	177	68	240	138	141	64	330	122	157	66
65	129	150	65	155	101	178	68	245	99	180	69	335	118	161	67
70	127	152	65	160	113	166	67	250	105	174	68	340	118	161	67
75	123	156	66	165	115	164	67	255	129	150	65	345	122	157	66
80	121	158	66	170	131	148	65	260	154	125	61	350	128	151	65
85	114	165	67	175	115	164	67	265	169	110	59	355	132	147	65

Callsign : WZZE  
Coordinates : 39-55-15.0 N, 75-29-58.0 W  
Comments : FROM CHANNEL 247D-COMMERCIAL CHANNEL OPERATING EDUCATIONAL  
Frequency (MHz): 97.10000  
HAAT (m): 60.55 AMSL (m): 152.00  
Elevation (m): 120.00 Tower AGL (m): 32.00  
ERP (w): 18  
City/State : GLEN MILLS, PA  
ARN : BPED19990624IA  
Distance (km): 46.55  
Licensee : GLEN MILLS SCHOOLS

Contour type : F(50,50)

Signal strength : 60.000 dBu

Contour HAAT (m) : 62.2

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
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0	116	36	4	90	68	84	6.2	180	88	64	5.4	270	96	56	5.1
5	114	38	4.1	95	64	88	6.3	185	94	58	5.2	275	88	64	5.4
10	112	40	4.2	100	56	96	6.6	190	104	48	4.7	280	97	55	5
15	117	35	3.9	105	51	101	6.8	195	105	47	4.6	285	97	55	5
20	119	33	3.8	110	43	109	7	200	105	47	4.6	290	103	49	4.7
25	116	36	4	115	36	116	7.3	205	95	57	5.1	295	104	48	4.7
30	112	40	4.2	120	29	123	7.5	210	99	53	4.9	300	110	42	4.3
35	109	43	4.4	125	25	127	7.6	215	98	54	5	305	119	33	3.8
40	106	46	4.6	130	36	116	7.3	220	101	51	4.8	310	117	35	3.9
45	108	44	4.5	135	40	112	7.1	225	95	57	5.1	315	120	32	3.8
50	100	52	4.9	140	42	110	7.1	230	91	61	5.3	320	124	28	3.7
55	95	57	5.1	145	37	115	7.2	235	92	60	5.2	325	130	22	3.7
60	88	64	5.4	150	41	111	7.1	240	105	47	4.6	330	128	24	3.7
65	81	71	5.7	155	37	115	7.2	245	108	44	4.5	335	127	25	3.7
70	77	75	5.8	160	37	115	7.2	250	105	47	4.6	340	127	25	3.7
75	80	72	5.7	165	49	103	6.8	255	102	50	4.8	345	127	25	3.7
80	74	78	5.9	170	62	90	6.4	260	97	55	5	350	124	28	3.7
85	74	78	5.9	175	75	77	5.9	265	97	55	5	355	123	29	3.7

Contour type : F(50,10)

Signal strength : 40.000 dBu

Contour HAAT (m) : 62.2

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
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0	116	36	13	90	68	84	20	180	88	64	18	270	96	56	16
5	114	38	13	95	64	88	21	185	94	58	17	275	88	64	18
10	112	40	13	100	56	96	22	190	104	48	15	280	97	55	16
15	117	35	13	105	51	101	23	195	105	47	15	285	97	55	16
20	119	33	12	110	43	109	24	200	105	47	15	290	103	49	15
25	116	36	13	115	36	116	24	205	95	57	17	295	104	48	15
30	112	40	13	120	29	123	25	210	99	53	16	300	110	42	14
35	109	43	14	125	25	127	25	215	98	54	16	305	119	33	12
40	106	46	14	130	36	116	24	220	101	51	15	310	117	35	13
45	108	44	14	135	40	112	24	225	95	57	17	315	120	32	12
50	100	52	16	140	42	110	24	230	91	61	17	320	124	28	12
55	95	57	17	145	37	115	24	235	92	60	17	325	130	22	12
60	88	64	18	150	41	111	24	240	105	47	15	330	128	24	12
65	81	71	19	155	37	115	24	245	108	44	14	335	127	25	12
70	77	75	19	160	37	115	24	250	105	47	15	340	127	25	12
75	80	72	19	165	49	103	23	255	102	50	15	345	127	25	12
80	74	78	20	170	62	90	21	260	97	55	16	350	124	28	12
85	74	78	20	175	75	77	19	265	97	55	16	355	123	29	12

Callsign : NEW

Coordinates : 39-44-03.0 N, 75-31-44.0 W

Comments :  
 Frequency (MHz): 97.30000  
 HAAT (m): 35.49 AMSL (m): 62.00  
 Elevation (m): 0.00 Tower AGL (m): 62.00  
 ERP (w): 150  
 City/State : WILMINGTON, DE  
 ARN : BNPFT20030314BPW  
 Distance (km): 27.1  
 Licensee : CAPSTAR TX LIMITED PARTNERSHIP

Contour type : F(50,50)  
 Signal strength : 60.000 dBu  
 Contour HAAT (m) : 35.2

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	92	-30	1	90	4	58	1.8	180	0	62	2.1	270	31	31	5.4
5	90	-28	1.1	95	4	58	1.8	185	0	62	2.7	275	38	24	5
10	83	-21	1.3	100	4	58	1.8	190	0	62	3.7	280	47	15	4.7
15	76	-14	1.4	105	3	59	1.7	195	0	62	4.5	285	52	10	4.3
20	71	-9	1.4	110	3	59	1.6	200	1	61	5.4	290	58	4	3.7
25	53	9	1.5	115	2	60	1.5	205	3	59	6	295	62	0	3.1
30	34	28	1.5	120	1	61	1.4	210	6	56	6.4	300	64	-2	2.6
35	24	38	1.6	125	0	62	1.2	215	10	52	6.6	305	63	-1	1.9
40	14	48	1.7	130	0	62	1	220	10	52	7	310	72	-10	1.7
45	4	58	1.8	135	0	62	0.9	225	11	51	7.3	315	72	-10	1.3
50	0	62	1.9	140	0	62	0.9	230	10	52	7.7	320	78	-16	1.1
55	0	62	1.9	145	0	62	0.9	235	10	52	8	325	79	-17	0.9
60	0	62	1.9	150	0	62	0.9	240	10	52	8.1	330	76	-14	0.9
65	0	62	1.9	155	0	62	0.9	245	11	51	8.1	335	68	-6	0.9
70	0	62	1.9	160	0	62	0.9	250	13	49	7.9	340	66	-4	0.9
75	0	62	1.9	165	0	62	0.9	255	16	46	7.5	345	88	-26	0.9
80	1	61	1.9	170	0	62	1.2	260	24	38	6.6	350	92	-30	0.9
85	2	60	1.9	175	0	62	1.4	265	27	35	6	355	98	-36	0.9

Contour type : F(50,10)  
 Signal strength : 54.000 dBu  
 Contour HAAT (m) : 35.2

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	92	-30	1.3	90	4	58	2.5	180	0	62	2.9	270	31	31	7.7
5	90	-28	1.4	95	4	58	2.5	185	0	62	3.7	275	38	24	7.1
10	83	-21	1.6	100	4	58	2.4	190	0	62	5.2	280	47	15	6.6
15	76	-14	1.7	105	3	59	2.4	195	0	62	6.3	285	52	10	6
20	71	-9	1.8	110	3	59	2.2	200	1	61	7.5	290	58	4	5.3
25	53	9	1.8	115	2	60	2	205	3	59	8.5	295	62	0	4.4
30	34	28	1.9	120	1	61	1.9	210	6	56	9.1	300	64	-2	3.6
35	24	38	2	125	0	62	1.7	215	10	52	9.4	305	63	-1	2.6
40	14	48	2.3	130	0	62	1.5	220	10	52	10	310	72	-10	2.1
45	4	58	2.5	135	0	62	1.4	225	11	51	11	315	72	-10	1.6
50	0	62	2.6	140	0	62	1.4	230	10	52	11	320	78	-16	1.4

55	0	62	2.6	145	0	62	1.4	235	10	52	11	325	79	-17	1.3
60	0	62	2.6	150	0	62	1.4	240	10	52	12	330	76	-14	1.3
65	0	62	2.6	155	0	62	1.4	245	11	51	12	335	68	-6	1.3
70	0	62	2.6	160	0	62	1.4	250	13	49	11	340	66	-4	1.3
75	0	62	2.6	165	0	62	1.4	255	16	46	11	345	88	-26	1.3
80	1	61	2.6	170	0	62	1.7	260	24	38	9.4	350	92	-30	1.3
85	2	60	2.6	175	0	62	1.9	265	27	35	8.6	355	98	-36	1.3

Callsign : NEW  
 Coordinates : 39-49-20.0 N, 75-54-43.0 W  
 Comments :  
 Frequency (MHz): 97.30000  
 HAAT (m): 151.42 AMSL (m): 288.00  
 Elevation (m): 150.00 Tower AGL (m): 138.00  
 ERP (w): 10  
 City/State : NEW LONDON, PA  
 ARN : BNPFT20030317EXX  
 Distance (km): 36.33  
 Licensee : HOPE CHRISTIAN CHURCH OF MARLTON, INC.

Contour type : F(50,50)  
 Signal strength : 60.000 dBu  
 Contour HAAT (m) : 153.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	172	116	6.3	90	117	171	7.6	180	113	175	7.7	270	127	161	7.4
5	165	123	6.5	95	121	167	7.5	185	116	172	7.6	275	134	154	7.2
10	162	126	6.5	100	119	169	7.6	190	120	168	7.5	280	132	156	7.2
15	159	129	6.6	105	119	169	7.6	195	122	166	7.5	285	142	146	7
20	155	133	6.7	110	115	173	7.7	200	123	165	7.5	290	145	143	6.9
25	151	137	6.8	115	105	183	7.9	205	129	159	7.3	295	145	143	6.9
30	151	137	6.8	120	102	186	7.9	210	132	156	7.2	300	154	134	6.7
35	148	140	6.9	125	101	187	7.9	215	137	151	7.1	305	156	132	6.7
40	137	151	7.1	130	105	183	7.9	220	141	147	7	310	167	121	6.4
45	146	142	6.9	135	111	177	7.7	225	144	144	7	315	164	124	6.5
50	149	139	6.8	140	112	176	7.7	230	141	147	7	320	156	132	6.7
55	149	139	6.8	145	108	180	7.8	235	136	152	7.1	325	158	130	6.6
60	142	146	7	150	99	189	8	240	134	154	7.2	330	162	126	6.5
65	135	153	7.2	155	94	194	8.1	245	124	164	7.4	335	165	123	6.5
70	129	159	7.3	160	102	186	7.9	250	126	162	7.4	340	168	120	6.4
75	116	172	7.6	165	109	179	7.8	255	131	157	7.3	345	174	114	6.3
80	109	179	7.8	170	107	181	7.8	260	128	160	7.3	350	177	111	6.2
85	110	178	7.8	175	111	177	7.7	265	132	156	7.2	355	177	111	6.2

Contour type : F(50,10)  
 Signal strength : 54.000 dBu  
 Contour HAAT (m) : 153.6

Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist	Brg	AT	HAAT	Dist
0	172	116	8.8	90	117	171	11	180	113	175	11	270	127	161	11

5	165	123	9.1	95	121	167	11	185	116	172	11	275	134	154	10
10	162	126	9.2	100	119	169	11	190	120	168	11	280	132	156	10
15	159	129	9.3	105	119	169	11	195	122	166	11	285	142	146	9.9
20	155	133	9.4	110	115	173	11	200	123	165	11	290	145	143	9.8
25	151	137	9.6	115	105	183	11	205	129	159	10	295	145	143	9.8
30	151	137	9.6	120	102	186	11	210	132	156	10	300	154	134	9.5
35	148	140	9.7	125	101	187	11	215	137	151	10	305	156	132	9.4
40	137	151	10	130	105	183	11	220	141	147	10	310	167	121	9
45	146	142	9.8	135	111	177	11	225	144	144	9.8	315	164	124	9.1
50	149	139	9.7	140	112	176	11	230	141	147	10	320	156	132	9.4
55	149	139	9.7	145	108	180	11	235	136	152	10	325	158	130	9.3
60	142	146	9.9	150	99	189	11	240	134	154	10	330	162	126	9.2
65	135	153	10	155	94	194	12	245	124	164	11	335	165	123	9.1
70	129	159	10	160	102	186	11	250	126	162	11	340	168	120	9
75	116	172	11	165	109	179	11	255	131	157	10	345	174	114	8.8
80	109	179	11	170	107	181	11	260	128	160	10	350	177	111	8.7
85	110	178	11	175	111	177	11	265	132	156	10	355	177	111	8.7