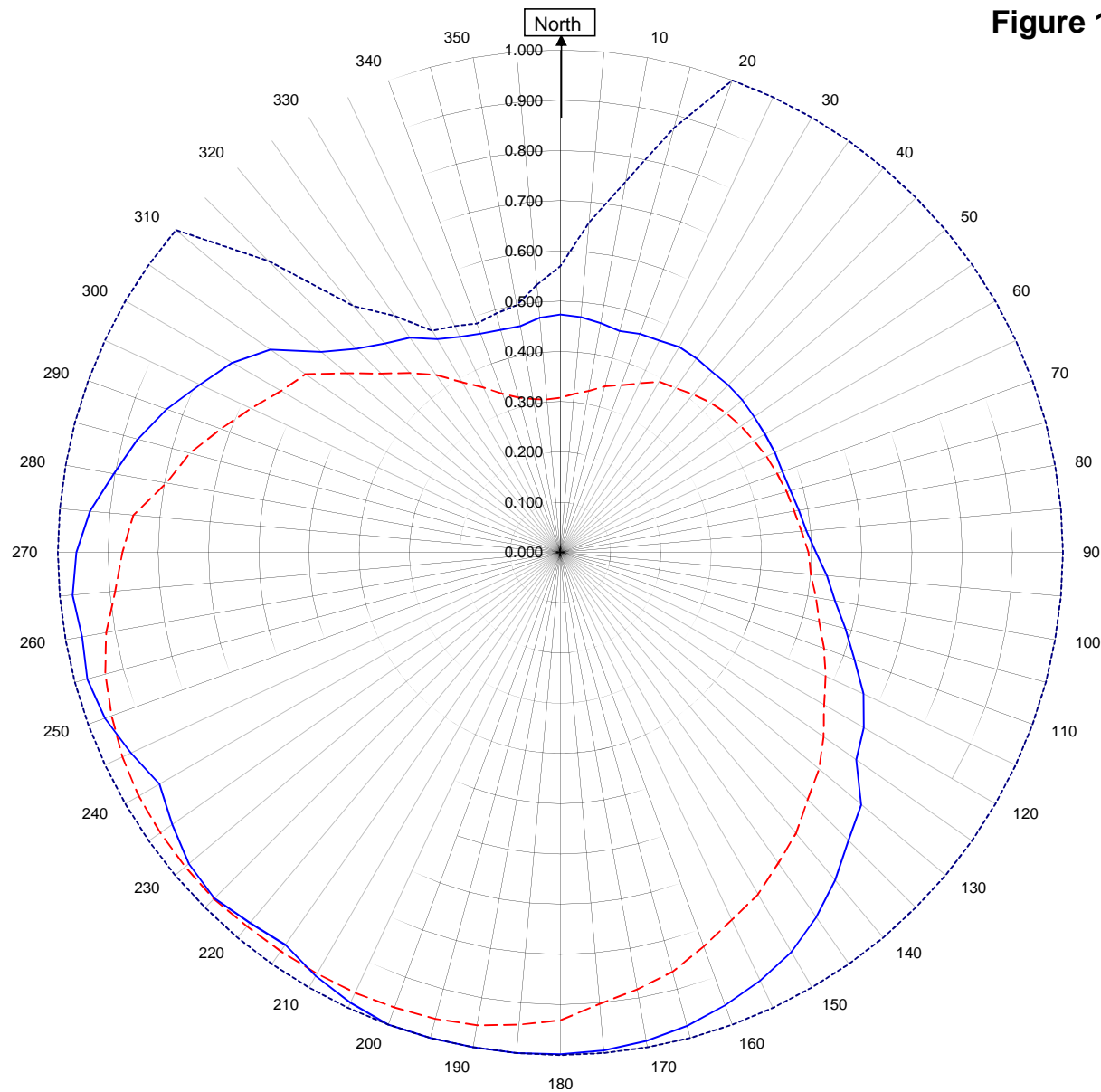


Shively Labs

Shively Labs, a division of Howell Laboratories, Inc. Bridgton, ME (207)647-3327

Figure 1A



W264BF ENGLEWOOD, IL.
32060
September 16, 2014

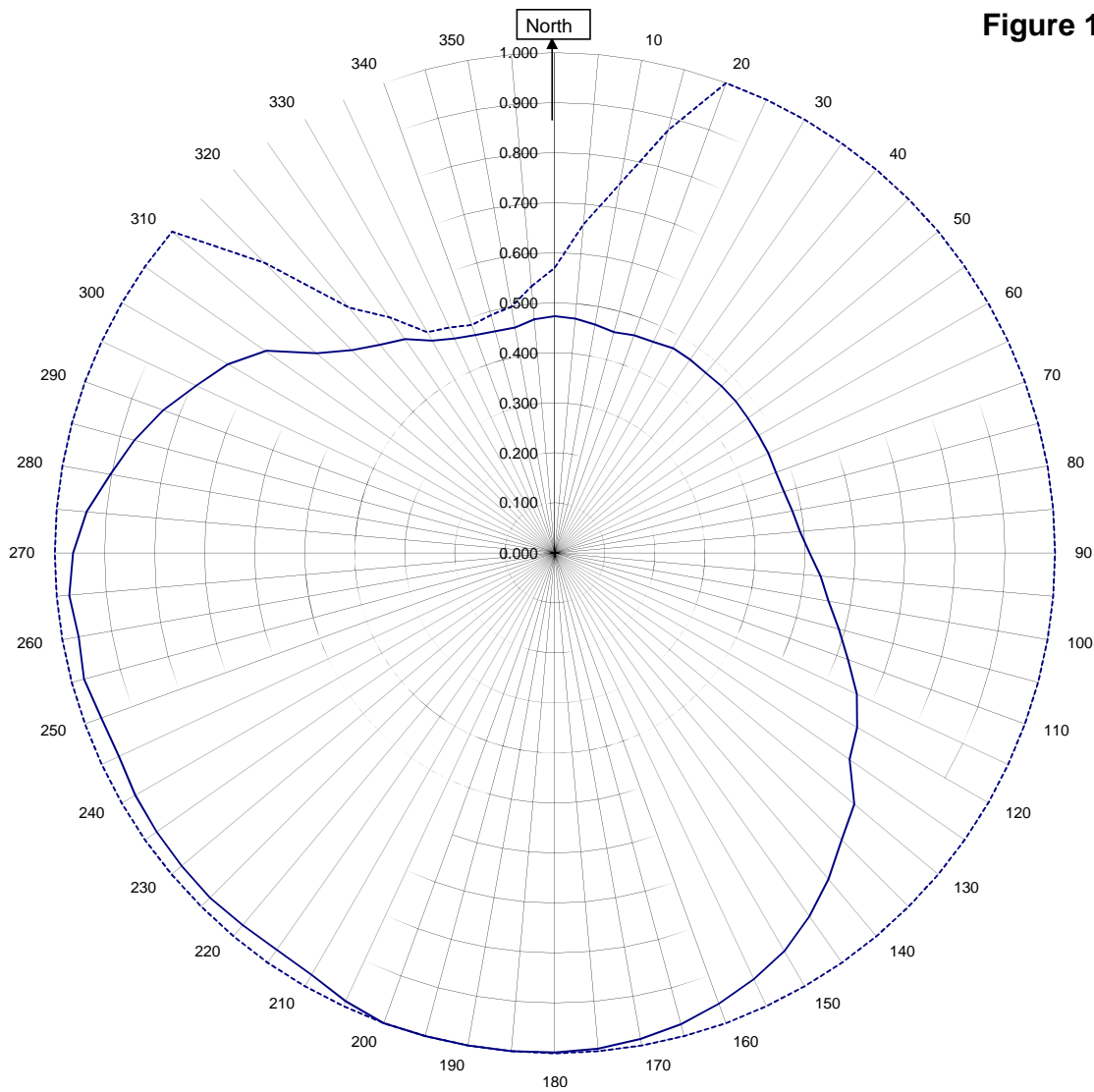
Horizontal RMS	0.752	Frequency	100.7 / 453.15 mHz
Vertical RMS	0.691	Plot	Relative Field
H/V Composite RMS	0.755	Scale	4.5 : 1
FCC Composite RMS	0.943	See Figure 2 for Mechanical Details	

Antenna Model	6812B-1R-DA-Translator
Pattern Type	Directional Azimuth

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Figure 1B



W264BF ENGLEWOOD, IL.

32060
September 16, 2014

—————H/V Composite RMS	0.755
.....FCC Composite RMS	0.943

Frequency	100.7 / 453.15 mHz
Plot	Relative Field
Scale	4.5 : 1
See Figure 2 for Mechanical Details	

Antenna Model	6812B-1R-DA-Translator
Pattern Type	Directional H/V Composite

Figure 1C

Tabulation of Horizontal Azimuth Pattern
W264BF ENGLEWOOD, IL.

Azimuth	Rel Field	Azimuth	Rel Field
0	0.474	180	0.999
10	0.464	190	1.000
20	0.463	200	1.000
30	0.472	210	0.974
40	0.470	220	0.962
45	0.472	225	0.974
50	0.472	230	0.965
60	0.471	240	0.922
70	0.470	250	0.965
80	0.482	260	0.967
90	0.509	270	0.963
100	0.555	280	0.902
110	0.623	290	0.834
120	0.697	300	0.755
130	0.781	310	0.621
135	0.811	315	0.573
140	0.851	320	0.544
150	0.919	330	0.490
160	0.959	340	0.464
170	0.987	350	0.458

Figure 1D

Tabulation of Vertical Azimuth Pattern
W264BF ENGLEWOOD, IL.

Azimuth	Rel Field	Azimuth	Rel Field
0	0.308	180	0.931
10	0.327	190	0.956
20	0.355	200	0.964
30	0.393	210	0.968
40	0.411	220	0.971
45	0.422	225	0.975
50	0.431	230	0.974
60	0.445	240	0.969
70	0.459	250	0.950
80	0.473	260	0.918
90	0.494	270	0.872
100	0.517	280	0.796
110	0.559	290	0.719
120	0.606	300	0.642
130	0.672	310	0.555
135	0.696	315	0.503
140	0.730	320	0.467
150	0.786	330	0.391
160	0.834	340	0.336
170	0.883	350	0.310

Figure 1E

Tabulation of Composite Azimuth Pattern
W264BF ENGLEWOOD, IL.

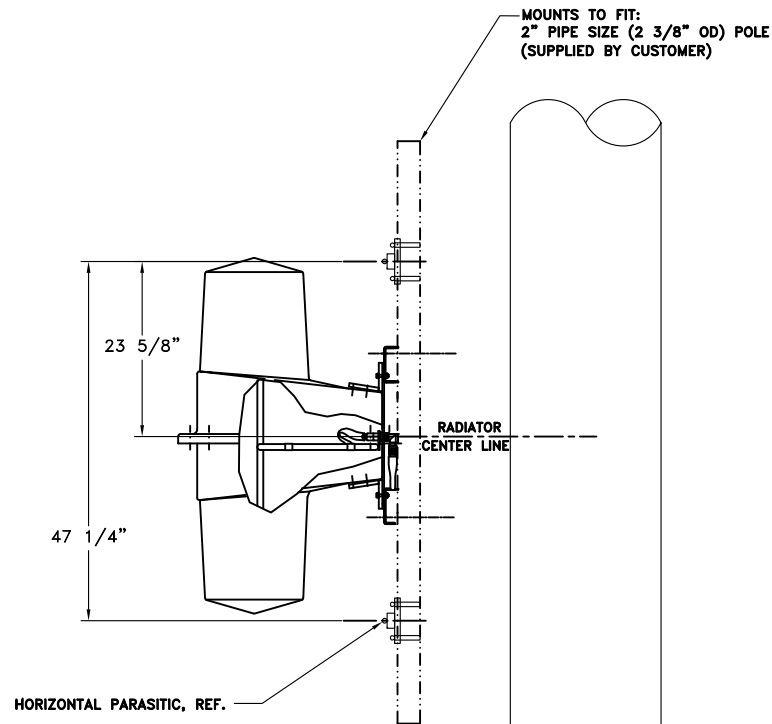
Azimuth	Rel Field	Azimuth	Rel Field
0	0.474	180	0.999
10	0.464	190	1.000
20	0.463	200	1.000
30	0.472	210	0.974
40	0.470	220	0.971
45	0.472	225	0.975
50	0.472	230	0.974
60	0.471	240	0.969
70	0.470	250	0.965
80	0.482	260	0.967
90	0.509	270	0.963
100	0.555	280	0.902
110	0.623	290	0.834
120	0.697	300	0.755
130	0.781	310	0.621
135	0.811	315	0.573
140	0.851	320	0.544
150	0.919	330	0.490
160	0.959	340	0.464
170	0.987	350	0.458

Figure 1F

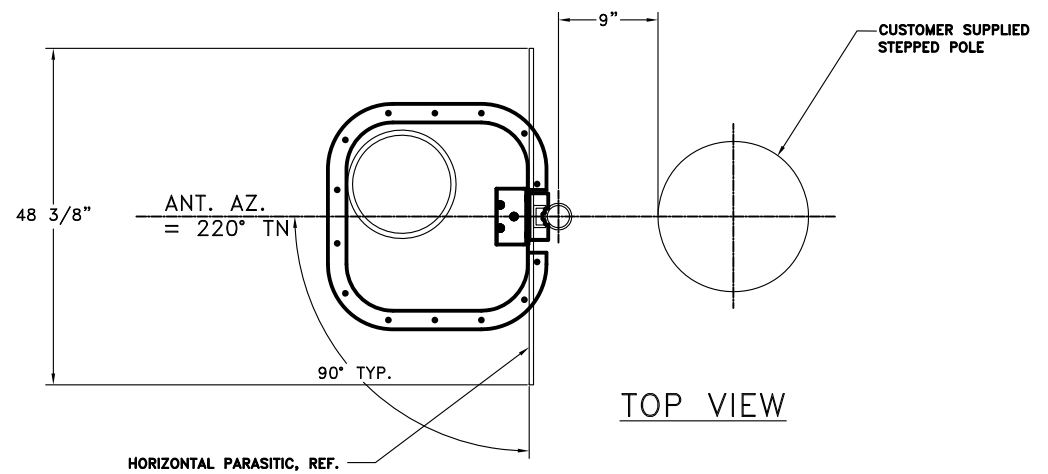
Tabulation of FCC Directional Composite
W264BF ENGLEWOOD, IL.

Azimuth	Rel Field	Azimuth	Rel Field
0	0.570	180	1.000
10	0.750	190	1.000
20	1.000	200	1.000
30	1.000	210	1.000
40	1.000	220	1.000
50	1.000	230	1.000
60	1.000	240	1.000
70	1.000	250	1.000
80	1.000	260	1.000
90	1.000	270	1.000
100	1.000	280	1.000
110	1.000	290	1.000
120	1.000	300	1.000
130	1.000	310	0.999
140	1.000	320	0.640
150	1.000	330	0.510
160	1.000	340	0.485
170	1.000	350	0.500

SEE 97173-G501
FOR ANTENNA BAY/
RADOME INSTALLATION
(REF. 29915)



SIDE VIEW



TOP VIEW

ANTENNA HEADING 220° TRUE NORTH

SHIVELY LABS			
A DIVISION OF HOWELL LABORATORIES INC., BRIDGTON, MAINE			
SHOP ORDER:	FREQUENCY:	SCALE:	DRAWN BY:
32060	100.7 MHz.	N.T.S.	ASP
TITLE:	APPROVED BY:		
MODEL-6812B-1R-DIRECTIONAL ANTENNA	DAB		
DATE:	FIGURE 2		
9-15-14			

Antenna Mfg.: Shively Labs

Antenna Type: 6812-1R

Station: W264BF

Frequency: 100.7

Channel #: 264

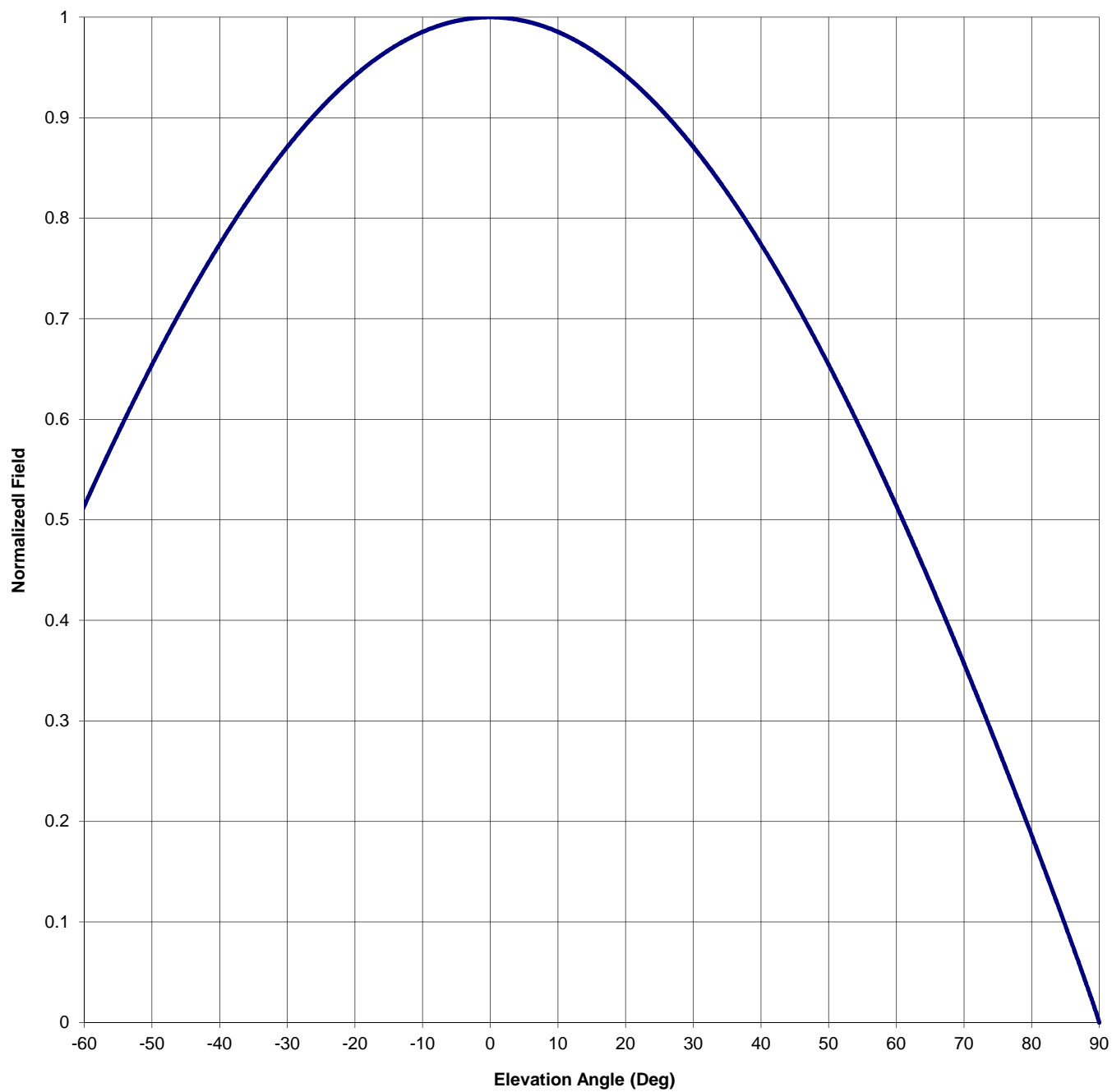
Figure: Figure 3

Date: 9/17/2014

Beam Tilt 0

Gain (Max) 0.885 -0.531 dB

Gain (Horizon) 0.885 -0.531 dB



Antenna Mfg.: Shively Labs

Date: 9/17/2014

Antenna Type: 6812-1R

Station: W264BF

Frequency: 100.7

Channel #: 264

Beam Tilt 0

Gain (Max) 0.885 -0.531 dB

Gain (Horizon) 0.885 -0.531 dB

Figure: Figure 3

Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field
-90	0.000	-44	0.729	0	1.000	46	0.705
-89	0.021	-43	0.741	1	1.000	47	0.693
-88	0.040	-42	0.752	2	0.999	48	0.680
-87	0.059	-41	0.763	3	0.999	49	0.667
-86	0.078	-40	0.774	4	0.998	50	0.654
-85	0.096	-39	0.785	5	0.996	51	0.641
-84	0.114	-38	0.796	6	0.995	52	0.628
-83	0.133	-37	0.806	7	0.993	53	0.614
-82	0.151	-36	0.816	8	0.991	54	0.600
-81	0.168	-35	0.826	9	0.988	55	0.586
-80	0.186	-34	0.835	10	0.985	56	0.572
-79	0.204	-33	0.845	11	0.982	57	0.558
-78	0.221	-32	0.854	12	0.979	58	0.544
-77	0.239	-31	0.862	13	0.975	59	0.529
-76	0.256	-30	0.871	14	0.971	60	0.514
-75	0.273	-29	0.879	15	0.967	61	0.499
-74	0.290	-28	0.887	16	0.963	62	0.484
-73	0.307	-27	0.895	17	0.958	63	0.469
-72	0.324	-26	0.903	18	0.953	64	0.453
-71	0.341	-25	0.910	19	0.948	65	0.437
-70	0.357	-24	0.917	20	0.942	66	0.422
-69	0.373	-23	0.924	21	0.936	67	0.406
-68	0.390	-22	0.930	22	0.930	68	0.390
-67	0.406	-21	0.936	23	0.924	69	0.373
-66	0.422	-20	0.942	24	0.917	70	0.357
-65	0.437	-19	0.948	25	0.910	71	0.341
-64	0.453	-18	0.953	26	0.903	72	0.324
-63	0.469	-17	0.958	27	0.895	73	0.307
-62	0.484	-16	0.963	28	0.887	74	0.290
-61	0.499	-15	0.967	29	0.879	75	0.273
-60	0.514	-14	0.971	30	0.871	76	0.256
-59	0.529	-13	0.975	31	0.862	77	0.239
-58	0.544	-12	0.979	32	0.854	78	0.221
-57	0.558	-11	0.982	33	0.845	79	0.204
-56	0.572	-10	0.985	34	0.835	80	0.186
-55	0.586	-9	0.988	35	0.826	81	0.168
-54	0.600	-8	0.991	36	0.816	82	0.151
-53	0.614	-7	0.993	37	0.806	83	0.133
-52	0.628	-6	0.995	38	0.796	84	0.114
-51	0.641	-5	0.996	39	0.785	85	0.096
-50	0.654	-4	0.998	40	0.774	86	0.078
-49	0.667	-3	0.999	41	0.763	87	0.059
-48	0.680	-2	0.999	42	0.752	88	0.040
-47	0.693	-1	1.000	43	0.741	89	0.021
-46	0.705	0	1.000	44	0.729	90	0.000
-45	0.717			45	0.717		