

**ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY ENGINEERING GROUP
ROADWAY DESIGN**

**MP8 - PHOENIX PARK WASH, S OF DRY LAKE
377 NA 008 F0661 01C
FEDERAL AID 377-A(203)T**

FINAL EARTHWORK REPORT



N Harness
Prepared By: ARIZONA DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
May 21, 2025

MP8 - PHOENIX PARK WASH, S OF DRY LAKE
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**EARTHWORK
 CALCULATION TABLE**

Calculated By:
 Checked By:

SUMMARY OF (Unadjusted) EARTHWORK			
Earthwork Section	Cut (Exc)	Fill (Emb)	Remarks
Roadway	74166	394	See Earthwork - Calculation
Pipe Excavation/Backfill	1469	648	
Berms		134	
Riprap Excavation	348		
Structural Excavation/Backfill			
Drainage Excavation	24		
Ground Compaction		6769	
Over Excavation	24226	24226	

EARTHWORK FACTORS

10% Shrink

Adjustment Notes:

1. Asphaltic Concrete Removal not removed from Earthwork.
2. Backfills are assumed imported.

EARTHWORK CALCULATION TABLE				
PRIMARY CALCULATIONS				
Shrink Not Applied	Exc(+)		Emb(-)	
Roadway Excavation	74166	CY		
Shrink			3152	CY
Pipe Excavation	1469	CY	0	CY
Structural Excavation	0	CY	0	CY
Drainage Excavation	24	CY	0	CY
Riprap Excavation	348	CY	0	CY
Over Excavation	24226	CY	24226	CY
Borrow (In-Place)				
Embankment (Inc GC)			7163	
Berms			134	CY
Pipe Backfill				CY
Structural Backfill				CY
Waste			65558	CY
	100233	CY	-100233	CY
			100233	CY
Check Balance	=		0	CY

QC EARTHWORK CHECK

Sum of Total Emb & Berm
 31522 CY

Sum of Total Shrink
 3152 CY

Sum of Total Exc+Borrow
 100233 CY

Required Dirt to Balance Earthwork
 -65558 CY

Positive is borrow, negative is waste

Note.

See RDG 2021 Edition with February 2022 Revisions Appendix B Earthwork calculations project example no. 2pdf page 365 of 396
 See RDG 2021 Edition with February 2022 Revisions Appendix B Earthwork calculations project example no. 4Waste (Unsuitable material)pdf page 367 of 396
 See RDG 2021 Edition with February 2022 Revisions Appendix B Basic Earthwork calculations basic example no. 1pdf page 348 of 396
 See RDG 2021 Edition with February 2022 Revisions Appendix B Basic Earthwork calculations basic example no. 5pdf page 353 of 396

Link

<https://azdot.gov/business/engineering-and-construction/roadway-engineering/roadway-design/roadway-design-guidelines>

Earthwork Calculation

STATION	Excavation			Embankement			Mass Ordinate	Ground Compaction						Over Ex	
	Factor	Area	Raw Volume	Factor	Area	Raw Volume		Lt Grading Tie In Off	Lt Sawcut Off	Rt Sawcut Off	Rt Grading Tie In Off	GROUND COMP Width	GROUND COMP VOLUME	GROUND COMP Width	Over Ex VOLUME
												Gnd Comp=	0.10'	Gnd Comp=	3.00'
523+50	1	51.1	0.00	1	0.095	0.00	0	-42.915	-13.421	13.229	38.038	54.30			
524+00	1	63.16	105.80	1	0.339	0.40	105.39	-44.88	-13.36	13.23	41.40	59.69	10.55		
524+50	1	84.59	136.80	1	0	0.31	241.89	-45.81	-13.30	13.24	43.00	62.27	11.29		
525+00	1	76.22	148.90	1	0	0.00	390.78	-45.88	-13.24	13.25	40.22	59.62	11.29		
525+50	1	98.17	161.47	1	0	0.00	552.25	-49.81	-13.18	13.25	39.99	63.37	11.39		
526+00	1	131.9	213.07	1	0	0.00	765.32	-55.49	-13.12	13.26	40.26	69.38	12.29		
526+50	1	109.6	223.68	1	0.198	0.18	988.82	-50.84	-13.06	13.26	45.53	70.05	12.91		
527+00	1	99.78	193.90	1	0	0.18	1182.54	-49.28	-13.00	13.27	42.39	65.41	12.54		
527+50	1	63.85	151.50	1	0	0.00	1334.04	-36.57	-12.93	13.27	43.85	54.21	11.08		
528+00	1	73.55	127.22	1	0	0.00	1461.26	-46.89	-12.87	13.28	44.21	64.95	11.03		
528+50	1	107.3	167.46	1	0	0.00	1628.73	-50.98	-12.81	13.29	42.27	67.16	12.23		
529+00	1	129.5	219.27	1	0.005	0.00	1847.99	-53.17	-12.76	13.29	42.54	69.65	12.67		
529+50	1	116.1	227.44	1	0	0.00	2075.42	-53.02	-12.79	13.28	41.66	68.61	12.80		
530+00	1	120.4	219.00	1	0	0.00	2294.42	-50.84	-12.81	13.28	44.97	69.72	12.81		
530+50	1	98.62	202.78	1	0	0.00	2497.20	-46.85	-12.83	13.27	42.92	63.66	12.35		
531+00	1	83.26	168.40	1	0.181	0.17	2665.44	-46.24	-12.86	13.27	40.67	60.79	11.52		
531+50	1	50.17	123.54	1	0.002	0.17	2788.81	-27.19	-12.88	13.26	41.14	42.19	9.54		
532+00	1	93.53	133.05	1	0	0.00	2921.86	-49.17	-12.90	13.26	39.79	62.80	9.72		
532+50	1	73.32	154.49	1	0	0.00	3076.35	-49.55	-12.93	13.25	37.87	61.24	11.49		
533+00	1	44.83	109.40	1	0	0.00	3185.75	-44.01	-12.95	13.24	34.33	52.15	10.50		
533+50	1	89.51	124.39	1	0	0.00	3310.14	-49.90	-12.98	13.24	43.30	66.98	11.03		
534+00	1	84.05	160.70	1	0.137	0.13	3470.71	-48.77	-12.98	13.25	40.69	63.23	12.06		
534+50	1	72.57	145.02	1	0.078	0.20	3615.53	-46.85	-12.95	13.29	42.12	62.72	11.66		
535+00	1	64.47	126.89	1	0.048	0.12	3742.31	-43.92	-12.92	13.34	41.76	59.42	11.31		
535+50	1	62.83	117.87	1	0.169	0.20	3859.97	-43.64	-12.89	13.38	40.16	57.52	10.83		
536+00	1	66.91	120.13	1	0	0.16	3979.95	-45.23	-12.86	13.42	41.24	60.18	10.90		
536+50	1	64.98	122.12	1	0	0.00	4102.07	-44.75	-12.83	13.47	44.98	63.43	11.45		
537+00	1	64.01	119.43	1	0	0.00	4221.50	-44.38	-12.80	13.51	44.99	63.05	11.71		
537+50	1	76.31	129.93	1	0.001	0.00	4351.43	-47.04	-12.77	13.55	40.50	61.21	11.51		
538+00	1	77.6	142.51	1	0	0.00	4493.94	-46.99	-12.74	13.60	40.37	61.01	11.32		
538+50	1	70.4	137.04	1	0.032	0.03	4630.95	-46.60	-12.71	13.64	40.73	60.97	11.29		
539+00	1	64.45	124.86	1	0	0.03	4755.78	-46.93	-12.68	13.68	39.10	59.66	11.17		
539+50	1	64.08	119.01	1	0	0.00	4874.78	-47.24	-12.72	13.78	38.13	58.86	10.97		
540+00	1	74.88	128.66	1	0	0.00	5003.45	-47.53	-12.75	13.88	38.17	59.07	10.92		
540+50	1	60.81	125.63	1	0	0.00	5129.08	-46.64	-12.79	13.98	36.93	56.81	10.73		
541+00	1	69	120.19	1	0.03	0.03	5249.25	-47.16	-12.82	14.08	39.16	59.42	10.76		
541+50	1	64.04	123.19	1	0	0.03	5372.41	-46.24	-12.86	14.18	38.98	58.19	10.89		
542+00	1	56.31	111.44	1	0.001	0.00	5483.84	-45.39	-12.89	14.28	38.72	56.95	10.66		
542+50	1	52.76	100.99	1	0.15	0.14	5584.70	-44.63	-12.93	14.37	38.14	55.47	10.41		
543+00	1	57.59	102.17	1	0.004	0.14	5686.73	-46.35	-12.96	14.47	38.03	56.94	10.41		
543+50	1	52.37	101.81	1	0	0.00	5788.53	-44.68	-12.99	14.57	37.36	54.47	10.32		
544+00	1	50.47	95.22	1	0	0.00	5883.76	-42.55	-13.13	14.57	38.08	52.93	9.94		
544+50	1	52.5	95.34	1	0	0.00	5979.10	-42.36	-13.56	14.24	38.97	53.53	9.86		
545+00	1	55.83	100.30	1	0.04	0.04	6079.37	-43.80	-14.17	13.72	39.47	55.38	10.08		
545+50	1	75.75	121.83	1	0.082	0.11	6201.08	-44.61	-14.88	13.07	50.32	66.98	11.33		
546+00	1	65.23	130.53	1	0	0.08	6331.54	-46.31	-15.61	12.38	44.66	62.97	12.03		
546+50	1	67.93	123.29	1	0	0.00	6454.83	-46.07	-16.30	11.71	42.99	61.05	11.48		
547+00	1	61	119.38	1	0	0.00	6574.21	-45.03	-16.87	11.15	42.36	59.38	11.15		
547+50	1	74.3	125.28	1	0.055	0.05	6699.44	-46.62	-17.26	10.73	43.81	62.44	11.28		
548+00	1	67.86	131.63	1	0	0.05	6831.02	-46.65	-17.42	10.53	41.39	60.10	11.35		
548+50	1	60.42	118.78	1	0.261	0.24	6949.56	-46.03	-17.29	10.58	39.38	57.54	10.89		
549+00	1	56.41	108.18	1	0	0.24	7057.50	-45.73	-16.82	10.94	39.85	57.81	10.68		
549+50	1	62.81	110.39	1	0	0.00	7167.88	-45.53	-16.00	11.64	44.16	62.06	11.10		
550+00	1	65.4	118.71	1	0	0.00	7286.60	-44.77	-14.80	12.66	44.04	61.35	11.43		
550+50	1	70.67	125.99	1	0.951	0.88	7411.71	-44.93	-13.42	13.85	46.07	63.74	11.58		
551+00	1	77.71	137.39	1	0.234	1.10	7548.00	-44.05	-12.07	15.00	47.67	64.65	11.89		
551+50	1	66.67	133.69	1	0.049	0.26	7681.43	-38.13	-10.94	15.95	49.80	61.04	11.64		
552+00	1	48.31	106.46	1	0.01	0.05	7787.83	-39.67	-10.24	16.51	43.23	56.16	10.85		
552+50	1	57.54	98.01	1	0	0.01	7885.83	-40.77	-10.12	16.52	46.54	60.66	10.82		
553+00	1	54.95	104.16	1	0	0.00	7990.00	-42.34	-10.78	15.83	44.90	60.63	11.23		
553+50	1	54.19	101.06	1	0	0.00	8091.05	-43.08	-11.95	14.67	42.99	59.45	11.12		
554+00	1	56.39	102.38	1	0	0.00	8193.43	-45.34	-12.63	13.99	41.09	59.81	11.04		
554+50	1	59.67	107.46	1	0.002	0.00	8300.90	-46.40	-12.94	13.59	40.49	60.36	11.13		
555+00	1	61.85	112.52	1	0	0.00	8413.42	-47.49	-12.98	13.26	40.87	62.13	11.34		
555+50	1	62.16	114.82	1	0	0.00	8528.24	-47.06	-12.89	12.92	41.29	62.55	11.54		
556+00	1	59.13	112.30	1	0	0.00	8640.54	-47.96	-12.62	12.58	40.27	63.03	11.63		
556+50	1	48.81	99.95	1	0	0.00	8740.49	-46.00	-12.24	12.23	39.30	60.82	11.47		
557+00	1	50.19	91.67	1	0.035	0.03	8832.13	-45.88	-11.79	11.89	39.59	61.79	11.35		
557+50	1	51.91	94.54	1	0.015	0.05	8926.62	-45.97	-11.27	11.57	40.82	63.95	11.64		
558+00	1	53.2													

566+50	1	78.21	138.45	1	0	0.19	11168.74	-44.56	-8.30	11.41	47.09	71.93	13.43
567+00	1	86.31	152.33	1	0.088	0.08	11320.99	-47.26	-8.25	11.39	47.17	74.80	13.59
567+50	1	88.43	161.79	1	0.213	0.28	11482.50	-47.90	-8.19	11.35	46.42	74.78	13.85
568+00	1	89.57	164.81	1	0.193	0.38	11646.94	-49.18	-8.13	11.32	45.55	75.29	13.89
568+50	1	86.74	163.25	1	0	0.18	11810.01	-48.51	-8.06	11.29	45.88	75.04	13.92
569+00	1	74.34	149.15	1	0	0.00	11959.16	-46.75	-7.99	11.27	45.17	72.65	13.68
569+50	1	70.59	134.20	1	0.035	0.03	12093.32	-46.95	-7.93	11.25	43.36	71.14	13.31
570+00	1	60.9	121.75	1	0.096	0.12	12214.95	-47.09	-7.86	11.23	41.40	69.40	13.01
570+50	1	51.23	103.82	1	0.269	0.34	12318.43	-47.46	-7.82	11.26	37.99	66.38	12.57
571+00	1	55.6	98.92	1	0.234	0.47	12416.89	-47.16	-7.78	11.29	39.80	67.89	12.43
571+50	1	24.11	73.80	1	3.968	3.89	12486.80	-41.67	-7.74	11.32	26.15	48.75	10.80
572+00	1	26.79	47.12	1	4.778	8.10	12525.82	-44.38	-7.70	11.38	27.13	52.43	9.37
572+50	1	35.83	57.98	1	2.737	6.96	12576.84	-47.81	-7.70	11.44	27.41	56.07	10.05
573+00	1	47.1	76.78	1	1.266	3.71	12649.92	-51.12	-7.71	11.50	27.33	59.25	10.68
573+50	1	62.76	101.72	1	2.293	3.30	12748.34	-53.02	-7.71	11.54	28.06	61.82	11.21
574+00	1	71.25	124.08	1	3.756	5.60	12866.82	-53.93	-7.71	11.59	30.41	65.04	11.75
574+50	1	73.97	134.47	1	8.535	11.38	12989.90	-53.03	-7.75	11.63	35.13	68.79	12.39
575+00	1	65.52	129.16	1	14.33	21.17	13097.89	-52.51	-7.79	11.63	38.63	71.72	13.01
575+50	1	54.89	111.49	1	13.82	26.06	13183.32	-51.80	-7.84	11.61	39.80	72.16	13.32
576+00	1	41.87	89.59	1	15.31	26.96	13245.94	-50.37	-7.88	11.59	39.98	70.88	13.24
576+50	1	19.8	57.10	1	11.03	24.39	13278.66	-39.98	-7.95	11.52	36.93	57.44	11.88
577+00	1	13.16	30.52	1	14.94	24.05	13285.13	-27.54	-8.03	11.42	37.35	45.44	9.53
577+50	1	12.94	24.16	1	8.668	21.86	13287.43	-28.40	-8.10	11.33	34.76	43.74	8.26
578+00	1	21.92	32.28	1	3.923	11.66	13308.05	-27.19	-8.20	11.20	29.14	36.93	7.47
578+50	1	25.89	44.27	1	3.972	7.31	13345.00	-44.03	-8.29	11.07	28.45	53.12	8.34
579+00	1	34.42	55.84	1	1.551	5.11	13395.73	-46.58	-8.38	10.95	26.86	54.10	9.93
579+50	1	43.05	71.73	1	0.797	2.17	13465.29	-47.92	-8.48	10.85	38.59	67.19	11.23
580+00	1	49.27	85.48	1	0.704	1.39	13549.38	-47.57	-8.57	10.75	42.00	70.25	12.73
580+50	1	47.28	89.40	1	0.769	1.36	13637.41	-46.05	-8.66	10.70	41.20	67.90	12.79
581+00	1	47.02	87.31	1	0.468	1.15	13723.58	-45.99	-8.72	10.68	39.86	66.45	12.44
581+50	1	45.99	86.12	1	0.422	0.82	13808.87	-45.57	-8.78	10.67	39.81	65.93	12.26
582+00	1	58.97	97.19	1	0.085	0.47	13905.59	-45.68	-8.83	10.67	42.33	68.51	12.45
582+50	1	63.02	112.95	1	0	0.08	14018.46	-46.15	-8.88	10.67	42.84	69.44	12.77
583+00	1	56.99	111.12	1	0	0.00	14129.58	-44.05	-8.89	10.70	42.89	67.35	12.67
583+50	1	48.94	98.08	1	0.034	0.03	14227.63	-44.23	-8.90	10.73	41.45	66.06	12.35
584+00	1	48.53	90.25	1	0	0.03	14317.85	-43.97	-8.91	10.75	40.86	65.16	12.15
584+50	1	51.48	92.60	1	0.025	0.02	14410.43	-44.45	-8.90	10.78	40.88	65.65	12.11
585+00	1	104.6	144.49	1	0	0.02	14554.89	-58.80	-8.88	10.81	40.92	80.04	13.49
585+50	1	100.6	189.99	1	0.169	0.16	14744.73	-57.16	-8.85	10.83	41.56	79.04	14.73
586+00	1	86.8	173.54	1	0.055	0.21	14918.06	-48.13	-8.82	10.85	44.80	73.26	14.10
586+50	1	66.65	142.09	1	0.003	0.05	15060.10	-48.54	-8.78	10.85	42.74	71.64	13.42
587+00	1	60.83	118.04	1	0.114	0.11	15178.02	-45.65	-8.73	10.86	43.43	69.49	13.07
587+50	1	61.74	113.49	1	0.001	0.11	15291.40	-44.90	-8.68	10.86	43.82	69.17	12.84
588+00	1	60.96	113.61	1	0.134	0.13	15404.88	-46.02	-8.63	10.86	42.28	68.82	12.78
588+50	1	62.52	114.33	1	0.294	0.40	15518.82	-46.32	-8.57	10.86	43.42	70.32	12.88
589+00	1	64	117.15	1	0.008	0.28	15635.69	-42.76	-8.51	10.85	46.66	70.05	13.00
589+50	1	59.85	114.68	1	0	0.01	15750.36	-41.79	-8.45	10.86	46.77	69.24	12.90
590+00	1	55.65	106.94	1	0.016	0.01	15857.28	-42.35	-8.40	10.88	45.69	68.76	12.78
590+50	1	50.48	98.26	1	0.495	0.47	15955.07	-43.20	-8.34	10.91	45.12	69.07	12.76
591+00	1	32	76.37	1	5.755	5.79	16025.66	-26.90	-8.29	10.93	44.37	52.05	11.21
591+50	1	51.53	77.34	1	0.2	5.51	16097.48	-42.83	-8.24	10.99	45.14	68.74	11.81
592+00	1	53.27	97.03	1	0.728	0.86	16193.66	-42.38	-8.20	11.06	46.52	69.64	12.81
592+50	1	53.75	99.10	1	0.852	1.46	16291.29	-44.08	-8.16	11.12	46.02	70.83	13.01
593+00	1	51.67	97.61	1	0.367	1.13	16387.77	-44.61	-8.13	11.19	45.20	70.49	13.09
593+50	1	51.24	95.28	1	0.912	1.18	16481.87	-44.04	-8.10	11.27	46.40	71.07	13.11
594+00	1	40.19	84.65	1	1.954	2.65	16563.87	-42.52	-8.07	11.36	47.66	70.77	13.13
594+50	1	44.33	78.26	1	1.621	3.31	16638.82	-43.49	-8.04	11.43	45.22	69.23	12.96
595+00	1	49.98	87.33	1	1.966	3.32	16722.82	-44.36	-8.02	11.50	45.71	70.55	12.94
595+50	1	49.11	91.75	1	2.573	4.20	16810.37	-42.34	-8.01	11.56	44.27	67.03	12.74
596+00	1	53.38	94.90	1	1.382	3.66	16901.60	-42.38	-7.99	11.63	44.55	67.30	12.44
596+50	1	53.93	99.36	1	0	1.28	16999.68	-44.65	-7.98	11.66	43.17	68.18	12.54
597+00	1	60.79	106.22	1	0	0.00	17105.90	-46.78	-7.98	11.68	42.66	69.78	12.77
597+50	1	55.22	107.42	1	0.048	0.04	17213.27	-45.44	-7.98	11.70	45.36	71.12	13.05
598+00	1	51.72	99.02	1	1.741	1.66	17310.63	-44.50	-7.99	11.67	43.75	68.59	12.94
598+50	1	46.56	91.00	1	2.82	4.22	17397.42	-44.83	-8.01	11.64	42.78	67.97	12.64
599+00	1	40.52	80.63	1	3.075	5.46	17472.59	-45.38	-8.05	11.57	42.11	67.88	12.58
599+50	1	39.29	73.90	1	3.01	5.63	17540.85	-45.36	-8.10	11.47	41.87	67.66	12.55
600+00	1	47.83	80.67	1	0.584	3.33	17618.19	-44.14	-8.14	11.37	43.81	68.44	12.60
600+50	1	53.43	93.76	1	0.104	0.64	17711.31	-46.45	-8.22	11.22	43.73	70.74	12.89
601+00	1	52.75	98.32	1	0.163	0.25	17809.39	-45.16	-8.31	11.07	45.03	70.81	13.11
601+50	1	53.62	98.49	1	0.022	0.17	17907.71	-44.07	-8.40	10.95	45.56	70.28	13.06
602+00	1	49.91	95.86	1	0.393	0.38	18003.18	-43.86	-8.49	10.88	44.42	68.92	12.89
602+50	1	50.65	93.11	1	1.691	1.93	18094.37	-42.69	-8.57	10.81	46.05	69.36	12.80
603+00	1	50.73	93.87	1	0.439	1.97	18186.26	-42.94	-8.66	10.74	44.56	68.10	12.73
603+50	1	37.87	82.04	1	1.106	1.43	18266.87	-42.72	-8.74	10.73	42.13	65.38	12.36
604+00	1	43.05	74.93	1	2.446	3.29	18338.51	-43.81	-8.81	10.74	43.80	68.06	12.36
604+50	1	45.2	81.71	1	2.264	4.36	18415.86	-43.46	-8.89	10.74	44.44	68.28	12.62
605+00	1	49.28	87.48	1	1.946	3.90	18499.44	-43.90	-8.95	10.75	44.52	68.72	12.69
605+50	1	59.95	101.14	1	1.103	2.82	18597.75	-45.16	-9.00	10.78	45.48	70.86	12.92
606+00	1	62.33	113.22	1	0.277	1.28	18709.70	-47.32	-9.06	10.80	44.78	72.25	13.25
606+50	1	61.14	114.33	1	0.452	0.68	18823.35	-48.31	-9.11	10.82	44.08	72.46	13.40
607+00	1	53.29	105.96	1	0.64	1.01	18928.29	-44.00	-9.13	10.81	45.13	69.19	13.12
607+50	1	48.61	94.35	1	0	0.59	19022.05	-42.72	-9.16	10.80	44.82	67.57	12.66
608+00	1	58.76	99.42	1	0.102	0.09	19121.38	-44.11	-9.19	10.79	42.33	66.46	12.41
608+50	1	60.17	110.12	1	0	0.09	19231.40	-43.87	-9.21	10.77	40.77	64.66	12.14
609+00	1	44.14	96.58	1	0	0.00	19327.98	-39.58	-9.22	10.74	39.55	59.17	11.47
609+50	1	43.79	81.41	1	0.241	0.22	19409.16	-38.81	-9.24	10.71	40.54	59.41	10.98
610+00	1	53.86	90.41	1	0.072	0.29	19499.28	-41.77	-9.26	10.67	41.34	63.19	11.35
610+50	1	84.46	128.08	1	0.152	0.21	19627.16	-44.13	-9.29	10.64	44.49	68.69	12.21
611+00	1</												

614+50	1	120.4	229.97	1	0.237	0.39	21311.94	-50.49	-9.66	10.40	47.87	78.30	14.66
615+50	1	119.3	221.94	1	0.075	0.29	21533.58	-50.07	-9.66	10.38	48.23	78.25	14.50
615+50	1	128.3	229.22	1	0.037	0.10	21762.70	-49.56	-9.67	10.36	49.05	78.57	14.52
616+00	1	127.2	236.60	1	0	0.03	21999.26	-49.74	-9.64	10.34	49.41	79.17	14.61
616+50	1	116.1	225.34	1	0.093	0.09	22224.51	-50.45	-9.57	10.32	48.43	79.00	14.64
617+00	1	127	225.15	1	0.347	0.41	22449.26	-51.46	-9.49	10.30	49.74	81.41	14.85
617+50	1	122.6	231.12	1	0	0.32	22680.06	-51.68	-9.37	10.28	49.82	81.85	15.12
618+00	1	109.1	214.51	1	0.006	0.01	22894.57	-50.44	-9.25	10.25	47.93	78.88	14.88
618+50	1	97.95	191.70	1	0.064	0.06	23086.21	-48.65	-9.18	10.22	46.49	75.73	14.32
619+00	1	89.53	173.60	1	0	0.06	23259.74	-48.73	-9.23	10.20	43.90	73.20	13.79
619+50	1	95.43	171.26	1	0	0.00	23431.01	-49.21	-9.45	10.18	46.54	76.11	13.83
620+00	1	116.5	196.23	1	0.001	0.00	23627.24	-49.83	-9.89	10.17	46.23	76.00	14.08
620+50	1	103.9	204.08	1	0	0.00	23831.31	-49.16	-10.57	10.16	45.97	74.39	13.93
621+00	1	93.96	183.21	1	0	0.00	24014.52	-49.71	-11.12	10.16	46.12	74.55	13.79
621+50	1	99.16	178.82	1	0.234	0.22	24193.12	-49.43	-11.13	10.16	46.82	74.97	13.84
622+00	1	105.3	189.34	1	0.038	0.25	24382.21	-50.40	-10.21	10.15	46.63	76.68	14.04
622+50	1	200.3	282.97	1	0	0.04	24665.14	-63.26	-10.00	10.12	46.93	90.07	15.44
623+00	1	137	312.32	1	0	0.00	24977.47	-61.02	-9.72	10.07	46.52	87.75	14.66
623+50	1	100.2	219.70	1	0.001	0.00	25197.16	-48.88	-9.76	10.03	46.96	76.05	15.17
624+00	1	101.5	186.81	1	0	0.00	25383.97	-48.58	-9.80	9.98	46.53	75.34	14.02
624+50	1	82.78	170.64	1	0	0.00	25554.61	-49.29	-9.83	9.92	47.30	76.83	14.09
625+00	1	89.4	159.43	1	0.029	0.03	25714.01	-48.08	-9.87	9.85	46.85	75.21	14.08
625+50	1	89.5	165.65	1	0.21	0.22	25879.44	-47.47	-9.91	9.78	46.59	74.38	13.85
626+00	1	104.1	179.24	1	0	0.19	26058.49	-48.21	-9.95	9.71	49.44	77.99	14.11
626+50	1	108	196.41	1	0.004	0.00	26254.90	-50.13	-9.98	9.66	48.75	79.24	14.56
627+00	1	106.2	198.37	1	0.267	0.25	26453.02	-50.71	-10.02	9.60	47.95	79.04	14.66
627+50	1	95.82	187.06	1	0	0.25	26639.84	-48.44	-10.06	9.55	47.23	76.07	14.36
628+00	1	93.14	174.97	1	0.036	0.03	26814.77	-49.17	-10.12	9.51	46.69	76.22	14.10
628+50	1	96.15	175.27	1	0.027	0.06	26989.98	-48.95	-10.20	9.49	48.01	77.26	14.21
629+00	1	97.04	178.87	1	0	0.03	27168.82	-49.53	-10.29	9.48	47.78	77.54	14.33
629+50	1	104.5	186.58	1	0.046	0.04	27355.36	-48.60	-10.28	9.49	48.12	76.95	14.31
630+00	1	109.4	197.99	1	0	0.04	27553.31	-48.94	-10.26	9.51	49.67	78.85	14.43
630+50	1	104.7	198.19	1	0.001	0.00	27751.49	-48.92	-10.23	9.52	47.75	76.91	14.42
631+00	1	96.15	185.95	1	0.006	0.01	27937.44	-48.35	-10.21	9.54	48.41	77.01	14.25
631+50	1	87.85	170.37	1	0	0.01	28107.80	-45.49	-10.19	9.57	49.19	74.92	14.07
632+00	1	86.9	161.80	1	0.04	0.04	28269.57	-47.00	-10.17	9.59	47.65	74.89	13.87
632+50	1	50.52	127.24	1	0.033	0.07	28396.74	-39.36	-10.14	9.62	45.85	65.45	12.99
633+00	1	61.82	104.02	1	0	0.03	28500.73	-49.20	-10.12	9.62	44.96	74.41	12.95
633+50	1	89.28	139.91	1	0	0.00	28640.63	-52.05	-10.10	9.63	44.65	76.97	14.02
634+00	1	94.24	169.93	1	0.018	0.02	28810.54	-52.42	-10.08	9.63	44.50	77.21	14.28
634+50	1	99.71	179.59	1	0	0.02	28990.11	-53.29	-10.08	9.62	43.87	77.46	14.32
635+00	1	95.92	181.14	1	0.043	0.04	29171.21	-53.69	-10.12	9.58	42.99	76.99	14.30
635+50	1	104.4	185.46	1	0	0.04	29356.63	-55.17	-10.15	9.54	42.56	78.03	14.35
636+00	1	105.8	194.64	1	0	0.00	29551.27	-55.50	-10.19	9.51	43.21	79.02	14.54
636+50	1	81.47	173.44	1	0.06	0.06	29724.65	-52.12	-10.22	9.45	43.11	75.55	14.31
637+00	1	67.4	137.85	1	0.041	0.09	29862.40	-48.27	-10.26	9.39	43.54	72.16	13.68
637+50	1	66.87	124.33	1	0.567	0.56	29986.17	-47.46	-10.29	9.34	43.40	71.24	13.28
638+00	1	84.02	139.71	1	0.081	0.60	30125.28	-48.79	-10.33	9.28	46.75	75.94	13.63
638+50	1	86.99	158.34	1	0.419	0.46	30283.15	-47.15	-10.36	9.23	49.65	77.21	14.18
639+00	1	83.34	157.71	1	0.361	0.72	30440.14	-46.75	-10.40	9.19	49.35	76.51	14.23
639+50	1	86.03	156.82	1	0.364	0.67	30596.29	-47.23	-10.43	9.14	49.04	76.69	14.19
640+00	1	83.02	156.53	1	0.095	0.43	30752.39	-45.72	-10.46	9.10	47.75	73.91	13.94
640+50	1	92.47	162.50	1	0	0.09	30914.80	-46.63	-10.39	9.09	47.68	74.83	13.77
641+00	1	90.47	169.39	1	0.148	0.14	31084.06	-48.69	-10.31	9.09	47.74	77.03	14.06
641+50	1	87.85	165.11	1	0.076	0.21	31248.96	-47.57	-10.24	9.08	48.57	76.82	14.25
642+00	1	88.44	163.23	1	0.468	0.50	31411.69	-48.53	-10.16	9.10	49.47	78.73	14.40
642+50	1	77.51	153.65	1	0.396	0.80	31564.55	-45.57	-10.09	9.12	49.19	75.55	14.28
643+00	1	63.96	130.99	1	1.216	1.49	31694.04	-43.98	-10.02	9.14	47.01	71.83	13.65
643+50	1	66.99	121.25	1	0.7	1.77	31813.52	-42.30	-9.94	9.18	48.02	71.21	13.24
644+00	1	82.33	138.26	1	0.156	0.79	31950.98	-44.89	-9.87	9.22	48.91	74.72	13.51
644+50	1	86.72	156.53	1	0.068	0.21	32107.30	-44.12	-9.79	9.26	48.33	73.40	13.71
645+00	1	87.82	161.61	1	0.003	0.07	32268.85	-43.22	-9.73	9.30	48.94	73.13	13.57
645+50	1	81.93	157.17	1	0	0.00	32426.02	-43.79	-9.74	9.35	47.03	71.74	13.41
646+00	1	73.13	143.57	1	0	0.00	32569.59	-44.62	-9.74	9.39	45.65	71.14	13.23
646+50	1	78.22	140.13	1	0.026	0.02	32709.70	-46.72	-9.75	9.44	45.96	73.50	13.39
647+00	1	77.05	143.76	1	0	0.02	32853.44	-45.02	-9.76	9.48	45.69	71.47	13.42
647+50	1	81.88	147.16	1	0	0.00	33000.59	-44.16	-9.76	9.52	45.19	70.06	13.10
648+00	1	85.95	155.40	1	0	0.00	33155.99	-46.90	-9.77	9.56	44.49	72.05	13.16
648+50	1	74.56	148.61	1	0.002	0.00	33304.60	-47.72	-9.78	9.61	44.14	72.48	13.38
649+00	1	80.08	143.18	1	0	0.00	33447.78	-47.74	-9.78	9.63	43.92	72.25	13.40
649+50	1	85.47	153.29	1	0.039	0.04	33601.04	-49.21	-9.79	9.65	44.58	74.35	13.57
650+00	1	95.04	167.15	1	0	0.04	33768.15	-46.95	-9.80	9.68	45.04	72.52	13.60
650+50	1	98.86	179.54	1	0.023	0.02	33947.67	-48.24	-9.80	9.69	45.18	73.94	13.56
651+00	1	103.3	187.16	1	0.094	0.11	34134.72	-51.08	-9.78	9.69	46.12	77.73	14.04
651+50	1	114.6	201.73	1	0	0.09	34336.36	-50.79	-9.77	9.69	49.30	80.63	14.66
652+00	1	109.5	207.48	1	0.02	0.02	34543.82	-51.20	-9.75	9.69	47.49	79.25	14.80
652+50	1	103.7	197.42	1	0.009	0.03	34741.21	-50.79	-9.74	9.69	47.09	78.46	14.60
653+00	1	99.42	188.11	1	0.036	0.04	34929.28	-48.31	-9.72	9.68	47.73	76.64	14.36
653+50	1	86.83	172.46	1	0	0.03	35101.71	-46.52	-9.71	9.68	45.95	73.09	13.86
654+00	1	81.06	155.46	1	0	0.00	35257.17	-46.84	-9.69	9.68	44.43	71.90	13.42
654+50	1	94.6	162.65	1	0.054	0.05	35419.76	-47.74	-9.68	9.69	46.53	74.91	13.59
655+00	1	103.2	183.14	1	0.005	0.05	35602.84	-47.52	-9.66	9.69	48.25	76.41	14.01
655+50	1	96.59	184.99	1	0	0.00	35787.83	-46.78	-9.65	9.70	46.51	73.94	13.92
656+00	1	94.74	177.16	1	0.207	0.19	35964.80	-46.51	-9.67	9.73	47.06	74.17	13.71
656+50	1	100.7	180.93	1	0.019	0.21	36145.52	-48.78	-9.69	9.76	45.44	74.77	13.79
657+00	1	103.4	188.91	1	0.03	0.05	36334.38	-48.99	-9.71	9.80	44.79	74.28	13.80
657+50	1	102.8	190.88	1	0.001	0.03	36525.23	-48.37	-9.73	9.82	46.15	74.97	13.82
658+00	1	103.5	191.03	1	0.039	0.04	36716.23	-47.16	-9.75	9.84	48.07	75.65	13.95
658+50	1	101.9	190.24	1	0	0.04	36906.44	-46.68	-9.77	9.86	48.57	75.62	14.01
659+00	1	107.5	193.92	1	0	0.00	37100.36	-48					

662+50	1	105.6	194.57	1	0	0.00	38412.64	-46.84	-10.04	9.39	48.76	76.17	13.99		
663+00	1	97.18	187.79	1	0	0.00	38600.43	-46.35	-10.09	9.35	48.25	75.17	14.01		
663+50	1	104.3	186.54	1	0.107	0.10	38786.86	-47.50	-10.14	9.30	49.09	77.15	14.10		
664+00	1	111.6	199.91	1	0	0.10	38986.68	-47.85	-10.18	9.26	49.45	77.86	14.35		
664+50	1	101.1	197.00	1	0	0.00	39183.68	-46.94	-10.23	9.23	48.26	75.74	14.22		
665+00	1	98.95	185.26	1	0.015	0.01	39368.93	-47.30	-10.28	9.22	48.71	76.52	14.10		
665+50	1	102.9	186.86	1	0.097	0.10	39555.69	-46.82	-10.32	9.20	49.47	76.76	14.19		
666+00	1	108.2	195.41	1	0	0.09	39751.01	-46.17	-10.37	9.19	48.76	75.38	14.09		
666+50	1	112.4	204.27	1	0	0.00	39955.28	-48.62	-10.36	9.19	47.08	76.14	14.03		
667+00	1	110.8	206.69	1	0	0.00	40161.97	-47.80	-10.36	9.20	47.73	75.99	14.09		
667+50	1	110.5	204.86	1	0	0.00	40366.83	-47.73	-10.35	9.20	48.10	76.28	14.10		
668+00	1	95.51	190.72	1	0	0.00	40557.55	-47.60	-10.35	9.21	46.16	74.21	13.93		
668+50	1	96.29	177.59	1	0.092	0.09	40735.05	-48.31	-10.34	9.22	45.63	74.37	13.76		
669+00	1	94.85	176.98	1	0	0.09	40911.95	-48.54	-10.34	9.23	45.13	74.10	13.75		
669+50	1	101.1	181.45	1	0	0.00	41093.40	-49.96	-10.33	9.25	45.94	76.32	13.93		
670+00	1	102.2	188.27	1	0	0.00	41281.68	-49.49	-10.32	9.25	47.17	77.09	14.20		
670+50	1	92.33	180.13	1	0	0.00	41461.81	-48.39	-10.32	9.25	46.25	75.07	14.09		
671+00	1	90.63	169.41	1	0	0.00	41631.21	-48.49	-10.31	9.26	44.42	73.35	13.74		
671+50	1	91.3	168.46	1	0.006	0.01	41799.67	-48.35	-10.30	9.26	45.96	74.76	13.71		
672+00	1	95.84	173.28	1	0	0.01	41972.94	-48.46	-10.26	9.24	47.61	76.57	14.01		
672+50	1	96.2	177.81	1	0.133	0.12	42150.63	-50.54	-10.23	9.23	46.58	77.66	14.28		
673+00	1	85.88	168.59	1	0.041	0.16	42319.06	-49.53	-10.19	9.22	45.62	75.74	14.20		
673+50	1	78.43	152.14	1	0.025	0.06	42471.13	-48.99	-10.16	9.21	43.58	73.21	13.79		
674+00	1	70.35	137.75	1	0.004	0.03	42608.86	-47.81	-10.12	9.20	43.80	72.29	13.47		
674+50	1	69.54	129.53	1	0.565	0.53	42737.86	-47.35	-10.09	9.19	45.35	73.42	13.49		
675+00	1	81.5	139.85	1	0	0.52	42877.18	-48.30	-10.05	9.19	44.90	73.96	13.65		
675+50	1	103	170.85	1	0	0.00	43048.03	-49.80	-10.02	9.22	46.44	77.00	13.98		
676+00	1	92.47	181.01	1	0.14	0.13	43228.91	-49.54	-9.99	9.24	45.61	75.92	14.16		
676+50	1	97.44	175.84	1	0.162	0.28	43404.48	-49.94	-9.95	9.27	45.38	76.11	14.08		
677+00	1	107.6	189.82	1	0	0.15	43594.15	-50.67	-9.93	9.32	46.29	77.72	14.24		
677+50	1	104.9	196.70	1	0	0.00	43790.85	-49.18	-9.91	9.38	47.37	77.27	14.35		
678+00	1	99.27	189.02	1	0.107	0.10	43979.77	-47.82	-9.89	9.44	47.92	76.43	14.23		
678+50	1	94.35	179.28	1	0	0.10	44158.94	-46.48	-9.87	9.49	47.43	74.55	13.98		
679+00	1	91.55	172.13	1	0	0.00	44331.07	-47.31	-9.85	9.53	46.81	74.74	13.82		
679+50	1	83.87	162.42	1	0	0.00	44493.49	-45.94	-9.83	9.52	47.09	73.68	13.74		
680+00	1	82.06	153.64	1	0	0.00	44647.14	-46.23	-9.81	9.51	46.25	73.16	13.60		
680+50	1	87.84	157.32	1	0.017	0.02	44804.44	-48.19	-9.82	9.43	46.95	75.89	13.80		
681+00	1	111	184.08	1	0.006	0.02	44988.49	-50.52	-9.82	9.34	50.79	82.15	14.63		
681+50	1	115	209.23	1	0	0.01	45197.71	-50.57	-9.83	9.24	52.20	83.71	15.36		
682+00	1	116.3	214.20	1	0.168	0.16	45411.76	-51.31	-9.84	9.16	54.29	86.60	15.77		
682+50	1	111.2	210.73	1	0.125	0.27	45622.22	-48.22	-9.85	9.14	55.44	84.66	15.86		
683+00	1	102.9	198.29	1	0.036	0.15	45820.36	-45.27	-9.87	9.13	54.16	80.44	15.29		
683+50	1	103.2	190.85	1	0.002	0.04	46011.17	-46.05	-9.88	9.11	54.05	81.10	14.96		
684+00	1	107.9	195.51	1	0.058	0.06	46206.63	-45.83	-9.89	9.14	54.95	81.74	15.08		
684+50	1	109.7	201.56	1	0.251	0.29	46407.90	-46.62	-9.91	9.20	54.37	81.90	15.15		
685+00	1	91.09	185.95	1	0.422	0.62	46593.23	-47.34	-9.92	9.25	50.71	78.89	14.89		
685+50	1	94.27	171.63	1	0	0.39	46764.47	-48.94	-9.93	9.30	48.48	78.19	14.54		
686+00	1	90.15	170.75	1	0	0.00	46935.23	-49.07	-9.95	9.35	46.91	76.69	14.34		
686+50	1	70.38	148.63	1	0.208	0.19	47083.67	-47.87	-9.96	9.40	44.76	73.27	13.88		
687+00	1	56.75	117.71	1	0	0.19	47201.18	-46.34	-9.97	9.44	39.89	66.81	12.97		
687+50	1	42.94	92.30	1	0	0.00	47293.49	-42.53	-9.99	9.46	37.27	60.36	11.77		
688+00	1	33.59	70.86	1	0.376	0.35	47364.00	-41.32	-10.00	9.47	35.61	57.47	10.91		
688+50	1	48.12	75.66	1	0.049	0.39	47439.27	-43.09	-10.01	9.45	37.12	60.76	10.95		
689+00	1	52.32	93.00	1	0.077	0.12	47532.15	-45.79	-10.02	9.43	37.79	64.12	11.56		
689+50	1	62.11	105.96	1	0.03	0.10	47638.01	-47.72	-10.04	9.40	40.09	68.37	12.27		
690+00	1	69.04	121.43	1	0	0.03	47759.41	-47.96	-10.05	9.37	41.49	70.02	12.81		
690+50	1	73.81	132.26	1	0.036	0.03	47891.64	-49.25	-10.06	9.33	41.21	71.07	13.06		
691+00	1	73.64	136.53	1	0	0.03	48028.14	-48.37	-10.08	9.24	42.10	71.15	13.17		
691+50	1	75.11	137.73	1	0	0.00	48165.87	-47.59	-10.09	9.16	43.40	71.74	13.23		
692+00	1	64.14	128.93	1	0.542	0.50	48294.30	-46.83	-10.10	9.19	42.50	70.04	13.13		
692+50	1	45.38	101.40	1	1.365	1.77	48393.94	-46.21	-10.12	9.28	26.16	52.98	11.39		
693+00	1	70.6	107.39	1	0.144	1.40	48499.93	-49.30	-10.14	9.31	40.99	70.83	11.46		
693+50	1	81.45	140.79	1	0	0.13	48640.59	-50.07	-10.18	9.34	42.48	73.04	13.32		
694+00	1	100.1	168.10	1	0	0.00	48808.69	-50.81	-10.21	9.35	45.50	76.75	13.87		
694+50	1	90.2	176.21	1	0.006	0.01	48984.89	-49.93	-10.24	9.30	43.11	73.51	13.91		
695+00	1	71.88	150.08	1	0	0.01	49134.97	-48.25	-10.27	9.25	41.55	70.28	13.31		
695+50	1	75.93	136.87	1	0.037	0.03	49271.80	-47.80	-10.30	9.19	41.05	69.37	12.93		
696+00	1	86.92	150.79	1	0	0.03	49422.55	-47.77	-10.33	9.11	42.56	70.89	12.99		
696+50	1	87.52	161.52	1	0	0.00	49584.07	-47.52	-10.36	9.04	43.35	71.48	13.18		
697+00	1	82.87	157.76	1	0.01	0.01	49741.82	-47.97	-10.39	8.99	42.36	70.95	13.19		
697+50	1	87.29	157.55	1	0	0.01	49899.37	-48.19	-10.42	8.96	44.63	73.44	13.37		
698+00	1	105.1	178.14	1	0.08	0.07	50077.43	-49.01	-10.44	8.92	46.22	75.87	13.83		
698+50	1	115	203.83	1	0	0.07	50281.19	-49.04	-10.41	8.94	47.41	77.10	14.16		
699+00	1	119.5	217.16	1	0	0.00	50498.35	-48.25	-10.39	8.98	48.87	77.75	14.34		
699+50	1	130.9	231.84	1	0	0.00	50730.19	-50.11	-10.36	9.03	50.31	81.02	14.70		
700+00	1	122.9	234.95	1	0	0.00	50965.14	-50.89	-10.33	9.09	49.61	81.08	15.01		
700+50	1	123	227.69	1	0	0.00	51192.83	-50.27	-10.29	9.15	48.68	79.51	14.87		
701+00	1	117.7	222.93	1	0	0.00	51415.76	-50.39	-10.24	9.21	46.96	77.90	14.57		
701+50	1	117.7	217.97	1	0	0.00	51633.73	-51.33	-10.20	9.27	46.24	78.11	14.45		
702+00	1	113.6	214.16	1	0	0.00	51847.89	-51.73	-10.15	9.33	45.85	78.10	14.46		
702+50	1	126.4	222.22	1	0	0.00	52070.10	-53.45	-10.11	9.39	46.95	80.90	14.72		
703+00	1	134.7	241.74	1	0	0.00	52311.84	-54.76	-10.06	9.45	47.48	82.72	15.15		
703+50	1	137.4	251.94	1	0	0.00	52563.78	-56.52	-10.03	9.52	46.87	83.84	15.42		
704+00	1	137	254.11	1	0	0.00	52817.89	-56.96	-10.00	9.59	47.65	85.02	15.64		
704+50	1	124.1	241.77	1	0.019	0.02	53059.64	-53.25	-9.97	9.66	46.26	79.88	15.27		
705+00	1	1													

710+50	1	45.3	87.84	1	0.658	0.73	55352.86	-46.57	-9.76	9.96	37.42	64.27	11.80	27.28	151.48
711+00	1	41.1	80.00	1	1.65	2.14	55430.73	-46.27	-9.76	9.92	26.93	53.51	10.91	27.32	151.65
711+50	1	59.59	93.23	1	0.004	1.53	55522.43	-48.18	-9.77	9.88	36.93	65.46	11.02	27.35	151.85
712+00	1	65.71	116.02	1	0	0.00	55638.44	-49.50	-9.77	9.84	38.60	68.49	12.40	27.39	152.06
712+50	1	68.51	124.28	1	0	0.00	55762.72	-50.61	-9.78	9.80	39.23	70.26	12.85	27.42	152.24
713+00	1	83.31	140.58	1	0	0.00	55903.30	-52.48	-9.78	9.77	41.39	74.31	13.39	27.45	152.41
713+50	1	96.39	166.39	1	0.001	0.00	56069.69	-55.10	-9.79	9.74	42.07	77.65	14.07	27.48	152.56
714+00	1	110.6	191.62	1	0	0.00	56261.31	-57.34	-9.79	9.71	42.03	79.87	14.59	27.50	152.72
714+50	1	113.2	207.17	1	0.043	0.04	56468.44	-55.15	-9.77	9.70	41.85	77.53	14.57	27.53	152.88
715+00	1	98.04	195.58	1	0	0.04	56663.98	-50.82	-9.76	9.69	40.07	71.43	13.79	27.55	153.00
715+50	1	81.79	166.51	1	0	0.00	56830.49	-46.63	-9.74	9.69	39.66	66.86	12.81	27.57	153.10
716+00	1	58.73	130.11	1	0	0.00	56960.59	-41.40	-9.73	9.69	38.33	60.31	11.78	27.58	153.19
716+50	1	47.57	98.43	1	0	0.00	57059.02	-36.67	-9.74	9.69	38.92	56.16	10.78	27.57	153.20
717+00	1	71.78	110.51	1	0	0.00	57169.53	-42.92	-9.76	9.68	39.09	62.57	10.99	27.56	153.14
717+50	1	92.75	152.34	1	0	0.00	57321.88	-49.05	-9.77	9.68	39.48	69.09	12.19	27.55	153.09
718+00	1	101.9	180.19	1	0.026	0.02	57502.04	-57.76	-9.78	9.67	40.73	79.03	13.71	27.54	153.04
718+50	1	93.8	181.16	1	0	0.02	57683.18	-55.42	-9.80	9.67	40.64	76.59	14.41	27.53	152.97
719+00	1	104.4	183.52	1	0	0.00	57866.70	-55.50	-9.81	9.68	41.02	77.04	14.22	27.52	152.91
719+50	1	113.8	201.99	1	0.033	0.03	58068.67	-56.02	-9.80	9.69	42.51	79.04	14.45	27.51	152.87
720+00	1	87.02	185.90	1	0.107	0.13	58254.44	-50.30	-9.79	9.70	41.69	72.50	14.03	27.51	152.84
720+50	1	68.61	144.10	1	0	0.10	58398.44	-45.87	-9.78	9.71	40.60	66.97	12.91	27.51	152.83
721+00	1	55.98	115.36	1	0.015	0.01	58513.78	-42.20	-9.78	9.73	41.01	63.70	12.10	27.50	152.78
721+50	1	43.76	92.35	1	0.003	0.02	58606.12	-39.23	-9.77	9.75	40.63	60.34	11.48	27.48	152.71
722+00	1	42.55	79.91	1	0.114	0.11	58685.93	-37.51	-9.76	9.78	40.31	58.29	10.98	27.46	152.61
722+50	1	34.89	71.70	1	0.05	0.15	58757.48	-35.84	-9.76	9.80	39.27	55.55	10.54	27.45	152.53
723+00	1	38.11	67.60	1	0	0.05	58825.03	-36.54	-9.75	9.83	40.13	57.10	10.43	27.42	152.42
723+50	1	54.11	85.40	1	0.162	0.15	58910.27	-39.35	-9.74	9.86	42.85	62.60	11.08	27.40	152.29
724+00	1	55.46	101.45	1	0	0.15	59011.58	-40.24	-9.73	9.89	42.44	63.06	11.64	27.38	152.17
724+50	1	67.68	114.02	1	0.192	0.18	59125.41	-41.15	-9.68	9.92	44.33	65.88	11.94	27.40	152.17
725+00	1	70.27	127.73	1	0.037	0.21	59252.93	-40.18	-9.58	9.95	46.03	66.69	12.27	27.47	152.43
725+50	1	77.9	137.19	1	0.058	0.09	59390.04	-40.76	-9.47	9.99	46.62	67.93	12.46	27.54	152.81
726+00	1	85.29	151.10	1	0.001	0.05	59541.08	-43.49	-9.37	10.02	46.91	71.00	12.86	27.61	153.19
726+50	1	97.25	169.01	1	0.045	0.04	59710.05	-45.94	-9.27	10.07	47.89	74.49	13.47	27.66	153.53
727+00	1	101.8	184.27	1	0	0.04	59894.28	-46.54	-9.17	10.11	47.35	74.61	13.81	27.72	153.84
727+50	1	94.82	182.02	1	0.052	0.05	60076.24	-43.27	-9.07	10.16	48.17	72.21	13.59	27.78	154.15
728+00	1	99.65	180.07	1	0.028	0.07	60256.24	-43.54	-8.97	10.21	48.53	72.89	13.43	27.82	154.43
728+50	1	87.37	173.17	1	0.019	0.04	60429.36	-46.15	-8.86	10.28	45.33	72.33	13.45	27.86	154.66
729+00	1	88.99	163.30	1	0.049	0.06	60592.59	-45.55	-8.76	10.35	45.88	72.31	13.39	27.89	154.84
729+50	1	84.22	160.38	1	0.008	0.05	60752.92	-45.37	-8.66	10.42	44.59	70.88	13.26	27.92	155.03
730+00	1	75.36	147.76	1	0.007	0.01	60900.66	-44.15	-8.49	10.51	42.67	67.83	12.84	28.01	155.36
730+50	1	72.53	136.94	1	0	0.01	61037.60	-42.23	-8.31	10.60	42.16	65.48	12.34	28.09	155.82
731+00	1	83.6	144.56	1	0.001	0.00	61182.16	-45.49	-8.13	10.70	42.65	69.31	12.48	28.16	156.26
731+50	1	0	77.40	1	0	0.00	61259.56		-8.10	11.19		69.00	12.81	27.72	155.22
732+00	1	79.12	73.26	1	0	0.00	61332.82	-44.24	-8.16	10.41	42.63	68.29	12.71	28.43	155.95
732+50	1	74.68	142.40	1	0.17	0.16	61475.06	-46.26	-8.12	10.52	42.22	68.83	12.79	28.36	157.74
733+00	1	68.75	132.80	1	0.077	0.23	61607.64	-43.16	-8.08	10.63	42.85	67.31	12.70	28.30	157.38
733+50	1	65.42	124.23	1	0.006	0.08	61731.79	-42.03	-8.03	10.73	41.97	65.23	12.27	28.23	157.03
734+00	1	65.04	120.80	1	0	0.01	61852.58	-42.84	-7.99	10.84	42.10	66.11	12.16	28.17	156.68
734+50	1	71.64	126.56	1	0	0.00	61979.14	-45.61	-7.95	10.95	42.98	69.69	12.57	28.11	156.33
735+00	1	66.83	128.22	1	0.051	0.05	62107.31	-44.40	-7.92	11.04	43.75	69.20	12.86	28.05	155.98
735+50	1	53.51	111.43	1	0.034	0.08	62218.66	-43.61	-7.94	11.07	41.29	65.90	12.51	28.00	155.68
736+00	1	59.47	104.61	1	0	0.03	62323.24	-43.40	-7.95	11.10	41.51	65.86	12.20	27.95	155.41
736+50	1	58.85	109.56	1	0.006	0.01	62432.79	-43.60	-7.97	11.13	39.65	64.15	12.04	27.90	155.14
737+00	1	63.96	113.72	1	0.012	0.02	62546.49	-44.42	-7.99	11.16	41.37	66.65	12.11	27.85	154.86
737+50	1	66.37	120.68	1	0	0.01	62667.15	-46.49	-8.00	11.20	41.03	68.32	12.50	27.80	154.59
738+00	1	67.18	123.66	1	0	0.00	62790.81	-49.16	-8.02	11.23	41.79	71.70	12.97	27.75	154.32
738+50	1	68.38	125.52	1	0	0.00	62916.33	-47.09	-8.04	11.26	41.37	69.16	13.04	27.70	154.05
739+00	1	69.61	127.76	1	0	0.00	63044.09	-43.37	-8.05	11.29	45.38	69.41	12.83	27.66	153.78
739+50	1	64.56	124.23	1	0	0.00	63168.32	-44.18	-8.07	11.32	42.59	67.38	12.67	27.61	153.50
740+00	1	61.82	117.02	1	0.04	0.04	63285.30	-43.28	-8.09	11.36	40.61	64.44	12.21	27.56	153.23
740+50	1	62.6	115.21	1	0.089	0.12	63400.39	-43.06	-8.10	11.31	41.29	64.94	11.98	27.59	153.18
741+00	1	73.52	126.04	1	0.001	0.08	63526.35	-43.39	-8.12	11.26	41.31	65.32	12.06	27.62	153.36
741+50	1	57.2	121.03	1	0.002	0.00	63647.38	-40.95	-8.13	11.22	41.33	62.94	11.88	27.65	153.54
742+00	1	37.01	87.23	1	0	0.00	63734.60	-38.91	-8.14	11.17	38.98	58.57	11.25	27.69	153.72
742+50	1	30.97	62.94	1	0.582	0.54	63797.01	-38.49	-8.16	11.12	38.54	57.75	10.77	27.72	153.90
743+00	1	28.96	55.49	1	1.236	1.68	63850.81	-38.36	-8.17	11.08	38.15	57.26	10.65	27.75	154.09
743+50	1	39.75	63.62	1	0.01	1.15	63913.27	-39.26	-8.19	11.03	39.16	59.20	10.78	27.79	154.27
744+00	1	40.42	74.23	1	0.035	0.04	63987.46	-39.64	-8.20	10.98	39.27	59.73	11.01	27.82	154.45
744+50	1	42.6	76.87	1	0	0.03	64064.30	-40.26	-8.22	10.94	39.96	61.07	11.19	27.85	154.63
745+00	1	49.33	85.12	1	0	0.00	64149.41	-41.32	-8.23	10.89	41.12	63.33	11.52	27.88	154.81
745+50	1	49.78	91.76	1	0.104	0.10	64241.08	-41.59	-8.24	10.85	41.80	64.30	11.82	27.91	154.99
746+00	1	48.12	90.65	1	0.012	0.11	64331.62	-42.34	-8.24	10.86	41.26	64.51	11.93	27.90	155.04
746+50	1	49.05	89.97	1	0.021	0.03	64421.56	-42.68	-8.24	10.87	41.49	65.07	12.00	27.89	154.98
747+00	1	52.13	93.68	1	0.048	0.06	64515.18	-43.13	-8.24	10.88	41.33	65.34	12.07	27.88	154.93
747+50	1	56.87	100.93	1	0	0.04	64616.07	-43.01	-8.24	10.89	41.93	65.81	12.14	27.87	154.87
748+00	1	53.48	102.18	1	0	0.00	64718.25	-42.97	-8.24	10.90	41.44	65.27	12.14	27.86	154.81
748+50	1	52.51	98.14	1	0	0.00	64816.39	-42.61	-8.24	10.91	44.46	67.92	12.33	27.85	154.76
749+00	1	49.45	94.41	1	0.203	0.19	64910.61	-42.54	-8.24	10.92	43.12	66.50	12.45	27.84	154.70
749+50															

758+50	1	66.4	118.29	1	0.025	0.02	66590.95	-40.88	-8.72	10.58	50.43	72.00	13.55	27.69	153.87
759+00	1	68.17	124.61	1	0	0.02	66715.54	-41.82	-8.77	10.54	49.72	72.22	13.35	27.69	153.84
759+50	1	46.69	106.35	1	0.019	0.02	66821.87	-39.43	-8.82	10.49	42.80	62.92	12.51	27.69	153.82
760+00	1	53.64	92.89	1	0.04	0.05	66914.71	-39.97	-8.87	10.45	41.90	62.55	11.62	27.68	153.79
760+50	1	57.69	103.08	1	0	0.04	67017.76	-41.28	-8.92	10.46	42.10	64.01	11.72	27.62	153.62
761+00	1	62.2	111.01	1	0.034	0.03	67128.73	-41.84	-8.97	10.47	41.92	64.32	11.88	27.57	153.30
761+50	1	78.1	129.90	1	0	0.03	67258.60	-45.99	-9.01	10.48	41.84	68.35	12.28	27.51	153.00
762+00	1	9.135	80.77	1	0	0.00	67339.37	-42.30	-9.00	10.48	40.81	63.62	12.22	27.52	152.86
762+50	1	53.91	58.37	1	0	0.00	67397.74	-42.15	-8.99	10.49	41.53	64.19	11.83	27.52	152.86
763+00	1	61.11	106.50	1	0.012	0.01	67504.23	-42.99	-8.99	10.50	42.86	66.37	12.09	27.52	152.86
763+50	1	66.49	118.14	1	0.175	0.17	67622.20	-42.78	-8.98	10.51	43.07	66.36	12.29	27.52	152.87
764+00	1	59.68	116.82	1	0.312	0.45	67738.57	-42.40	-8.97	10.51	42.65	65.57	12.22	27.52	152.87
764+50	1	52.08	103.49	1	0.092	0.37	67841.68	-42.03	-8.96	10.52	40.66	63.21	11.92	27.52	152.88
765+00	1	43.34	88.35	1	0	0.09	67929.94	-41.68	-8.96	10.53	40.43	62.62	11.65	27.52	152.88
765+50	1	41.23	78.30	1	0.226	0.21	68008.04	-41.98	-8.95	10.53	39.52	62.02	11.54	27.52	152.88
766+00	1	47.69	82.34	1	0.333	0.52	68089.86	-42.87	-8.94	10.54	41.66	65.05	11.77	27.52	152.89
766+50	1	54.52	94.63	1	0.452	0.73	68183.76	-43.20	-8.93	10.55	42.79	66.51	12.18	27.52	152.89
767+00	1	52.5	99.08	1	0.096	0.51	68282.34	-43.07	-8.92	10.55	40.23	63.83	12.07	27.53	152.92
767+50	1	52.76	97.46	1	0	0.09	68379.71	-43.93	-8.90	10.56	40.78	65.25	11.95	27.55	152.99
768+00	1	54.16	99.00	1	0.016	0.01	68478.69	-44.50	-8.88	10.56	38.69	63.75	11.94	27.56	153.08
768+50	1	62.38	107.90	1	0.044	0.06	68586.54	-41.25	-8.86	10.56	41.58	63.41	11.77	27.58	153.17
769+00	1	56.91	110.45	1	0.002	0.04	68696.95	-40.01	-8.84	10.57	40.92	61.52	11.57	27.59	153.25
769+50	1	56.98	105.46	1	0	0.00	68802.40	-38.66	-8.82	10.57	44.85	64.12	11.63	27.61	153.34
770+00	1	52.76	101.61	1	0	0.00	68904.01	-38.16	-8.80	10.58	42.32	61.11	11.59	27.63	153.43
770+50	1	53.67	98.55	1	0	0.00	69002.56	-38.77	-8.78	10.58	46.05	65.46	11.72	27.64	153.52
771+00	1	62.33	107.41	1	0.091	0.08	69109.88	-39.25	-8.76	10.59	46.54	66.44	12.21	27.66	153.60
771+50	1	73.7	125.95	1	0.034	0.12	69235.72	-41.54	-8.74	10.59	47.80	70.01	12.63	27.67	153.69
772+00	1	88.86	150.52	1	0.057	0.08	69386.15	-41.56	-8.72	10.59	51.85	74.10	13.34	27.69	153.78
772+50	1	74.71	151.45	1	0.006	0.06	69537.55	-40.02	-8.73	10.57	49.32	70.04	13.35	27.70	153.84
773+00	1	58.01	122.89	1	0.059	0.06	69660.37	-39.14	-8.75	10.55	43.92	63.76	12.39	27.70	153.89
773+50	1	58.03	107.44	1	0.005	0.06	69767.76	-39.15	-8.76	10.52	44.85	64.71	11.90	27.71	153.93
774+00	1	38.85	89.71	1	6.976	6.46	69851.00	-27.20	-8.78	10.50	42.74	50.67	10.68	27.72	153.98
774+50	1	70.73	101.47	1	0.559	6.98	69945.49	-39.71	-8.79	10.48	50.23	70.66	11.23	27.73	154.02
775+00	1	65.99	126.60	1	0.169	0.67	70071.41	-39.80	-8.81	10.46	46.97	67.50	12.79	27.74	154.07
775+50	1	70.16	126.06	1	0.076	0.23	70197.25	-35.93	-8.82	10.43	53.74	70.42	12.77	27.74	154.11
776+00	1	76.16	135.48	1	0	0.07	70332.65	-38.10	-8.84	10.41	55.37	74.22	13.39	27.75	154.16
776+50	1	67.51	133.02	1	0.009	0.01	70465.67	-37.97	-8.85	10.39	41.32	60.05	12.43	27.76	154.20
777+00	1	67.28	124.81	1	0.04	0.05	70590.43	-35.20	-8.87	10.36	41.54	57.51	10.88	27.77	154.25
777+50	1	80.17	136.53	1	0.037	0.07	70726.89	-38.19	-8.91	10.35	43.51	62.45	11.11	27.74	154.20
778+00	1	82.2	150.35	1	0.06	0.09	70877.15	-40.45	-8.98	10.34	43.85	64.98	11.80	27.68	153.95
778+50	1	96.1	165.10	1	0	0.06	71042.19	-44.61	-9.05	10.34	42.39	67.62	12.28	27.62	153.60
779+00	1	91.32	173.54	1	0.235	0.22	71215.51	-40.53	-9.11	10.33	39.53	60.61	11.87	27.56	153.26
779+50	1	105.7	182.44	1	0.164	0.37	71397.58	-41.98	-9.18	10.33	39.84	62.31	11.38	27.49	152.91
780+00	1	95.29	186.11	1	0.156	0.30	71583.39	-36.28	-9.25	10.32	45.62	62.33	11.54	27.43	152.57
780+50	1	76.95	159.48	1	0.11	0.25	71742.62	-38.27	-9.32	10.31	48.73	67.37	12.01	27.37	152.22
781+00	1	58.71	125.61	1	0.135	0.23	71868.01	-37.37	-9.39	10.31	43.86	61.53	11.94	27.31	151.87
781+50	1	67.42	116.79	1	0.064	0.18	71984.62	-38.13	-9.45	10.30	44.75	63.12	11.54	27.25	151.53
782+00	1	56.54	114.78	1	0.115	0.17	72099.23	-37.58	-9.52	10.30	44.03	61.79	11.57	27.18	151.19
782+50	1	36.8	86.42	1	0.979	1.01	72184.64	-26.23	-9.59	10.29	45.99	52.34	10.57	27.12	150.84
783+00	1	56.59	86.46	1	0.914	1.75	72269.35	-26.40	-9.47	10.50	49.13	55.57	9.99	27.04	150.44
783+50	1	60.05	107.99	1	0.467	1.28	72376.06	-25.87	-9.32	10.73	50.14	55.96	10.33	26.96	149.99
784+00	1	129	175.03	1	3.089	3.29	72547.81	-28.30	-9.17	10.96	69.85	78.02	12.41	26.87	149.53
784+50	1	160.6	268.10	1	2.211	4.91	72811.00	-28.52	-9.02	11.19	73.31	81.62	14.78	26.79	149.07
785+00	1	124	263.51	1	1.292	3.24	73071.27	-27.44	-8.87	11.42	66.55	73.70	14.38	26.71	148.61
785+50	1	50.84	161.92	1	0	1.20	73231.99	-33.53	-8.72	11.65	43.96	57.12	12.11	26.63	148.14
786+00	1	51.23	94.51	1	0.011	0.01	73326.49	-35.78	-8.58	11.88	44.16	59.48	10.80	26.54	147.68
786+50	1	53.41	96.89	1	0	0.01	73423.37	-37.97	-8.43	12.12	40.59	58.02	10.88	26.46	147.22
787+00	1	77.21	120.95	1	0	0.00	73544.32	-49.90	-8.28	12.35	38.09	67.36	11.61	26.38	146.76
787+50	1	84.52	149.75	1	0.006	0.01	73694.06	-55.01	-8.13	12.58	34.50	68.81	12.61	26.29	146.30
788+00	1	0	78.26	1	0	0.01	73772.32	-54.09	-8.03	12.74	34.16	67.49	12.62	26.24	145.91

Grand Total:		74166.34		394.03								6769		24226	
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