

15 San Felipe-Villa de Reyes ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
0	270,780.73	2,377,060.71	50.42	0.00
1	270,797.89	2,377,074.89	67.19	22.26
2	270,851.51	2,377,080.56	74.07	76.18
3	270,911.76	2,377,109.72	62.25	143.12
4	271,399.52	2,377,387.77	57.87	704.56
5	271,603.86	2,377,528.58	51.19	952.72
6	271,624.83	2,377,548.18	57.32	981.42
7	271,638.50	2,377,553.78	82.69	996.19
8	271,664.83	2,377,550.22	105.70	1,022.77
9	271,700.86	2,377,534.41	108.39	1,062.12
10	271,735.81	2,377,526.29	95.11	1,098.00
11	271,757.89	2,377,527.39	78.60	1,120.10
12	271,811.12	2,377,546.70	66.55	1,176.73
13	271,925.88	2,377,605.07	61.55	1,305.48
14	272,029.02	2,377,664.47	55.31	1,424.50
15	272,088.60	2,377,713.46	44.49	1,501.64
16	272,150.37	2,377,791.35	36.57	1,601.04
17	272,202.73	2,377,866.89	35.87	1,692.96
18	272,419.11	2,378,153.87	43.32	2,052.37
19	272,487.25	2,378,211.82	55.63	2,141.82
20	272,564.81	2,378,253.68	50.40	2,229.96
21	272,621.68	2,378,323.52	48.37	2,320.02
22	272,666.23	2,378,351.83	61.56	2,372.81
23	273,063.28	2,378,532.41	68.90	2,808.99
24	273,395.84	2,378,638.77	71.20	3,158.15
25	273,690.46	2,378,745.22	71.12	3,471.41
26	273,869.03	2,378,802.91	73.31	3,659.06
27	273,933.48	2,378,820.76	69.71	3,725.93
28	274,018.98	2,378,860.82	65.15	3,820.36
29	274,456.33	2,379,060.99	61.27	4,301.34
30	274,549.86	2,379,121.40	58.97	4,412.68
31	274,599.38	2,379,149.08	54.24	4,469.41
32	274,746.97	2,379,283.44	53.46	4,669.00
33	274,803.01	2,379,316.79	56.90	4,734.21
34	274,870.41	2,379,364.77	56.64	4,816.95
35	274,910.35	2,379,389.03	58.48	4,863.67
36	274,941.26	2,379,408.16	56.39	4,900.03
37	274,992.40	2,379,444.58	52.33	4,962.81
38	275,443.88	2,379,821.81	27.87	5,551.14
39	275,449.04	2,379,874.26	5.79	5,603.85
40	275,451.69	2,379,899.64	16.12	5,629.37
41	275,466.46	2,379,929.56	31.05	5,662.73
42	275,518.34	2,380,001.43	36.00	5,751.37
43	275,546.10	2,380,039.39	55.13	5,798.39
44	275,557.38	2,380,042.60	101.67	5,810.13
45	275,572.09	2,380,030.59	121.26	5,829.12
46	275,589.82	2,380,022.96	120.70	5,848.42
47	275,609.79	2,380,007.28	116.60	5,873.81
48	275,666.78	2,379,991.95	101.50	5,932.83
49	275,712.87	2,379,985.53	92.05	5,979.36
50	275,764.08	2,379,988.96	87.89	6,030.68
51	275,844.95	2,379,989.49	90.86	6,111.56

15 San Felipe-Villa de Reyes ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
52	275,902.20	2,379,987.40	84.44	6,168.84
53	275,950.24	2,379,998.68	74.49	6,218.20
54	276,035.78	2,380,026.15	74.29	6,308.03
55	276,067.08	2,380,033.74	82.03	6,340.25
56	276,084.29	2,380,034.44	96.23	6,357.47
57	276,124.18	2,380,023.91	116.46	6,398.72
58	276,140.32	2,380,011.24	134.29	6,419.24
59	276,158.33	2,379,989.44	135.51	6,447.52
60	276,172.12	2,379,977.63	112.69	6,465.68
61	276,195.86	2,379,975.62	92.55	6,489.50
62	276,217.36	2,379,975.52	93.55	6,511.00
63	276,247.64	2,379,971.89	88.59	6,541.50
64	276,325.15	2,379,985.07	66.56	6,620.13
65	276,384.58	2,380,030.23	49.69	6,694.76
66	276,522.69	2,380,160.79	48.09	6,884.82
67	276,778.26	2,380,378.52	48.92	7,220.56
68	276,953.67	2,380,534.94	50.83	7,455.58
69	277,104.12	2,380,646.71	59.39	7,643.01
70	277,191.50	2,380,686.74	66.65	7,739.12
71	277,309.25	2,380,734.51	71.18	7,866.19
72	277,379.41	2,380,754.05	64.14	7,939.02
73	277,401.39	2,380,770.11	39.57	7,966.24
74	277,418.04	2,380,805.32	7.59	8,005.19
75	277,412.91	2,380,834.06	3.08	8,034.39
76	277,427.19	2,380,882.98	26.52	8,085.35
77	277,445.39	2,380,907.33	44.18	8,115.74
78	277,705.54	2,381,113.60	53.63	8,447.75
79	278,020.94	2,381,329.01	35.81	8,829.69
80	278,030.02	2,381,360.73	18.96	8,862.69
81	278,039.60	2,381,384.50	25.41	8,888.31
82	278,120.72	2,381,531.66	36.25	9,056.35
83	278,154.46	2,381,567.05	65.22	9,105.25
84	278,181.30	2,381,568.55	90.99	9,132.13
85	278,206.24	2,381,566.28	94.36	9,157.18
86	278,224.39	2,381,565.16	80.90	9,175.36
87	278,236.86	2,381,570.14	50.35	9,188.79
88	278,244.94	2,381,582.84	37.01	9,203.85
89	278,266.19	2,381,606.79	51.22	9,235.86
90	278,282.34	2,381,615.80	68.22	9,254.35
91	278,344.10	2,381,631.68	74.30	9,318.12
92	278,403.30	2,381,649.75	64.40	9,380.01
93	278,459.24	2,381,687.80	50.23	9,447.67
94	278,497.27	2,381,726.23	62.20	9,501.74
95	278,538.18	2,381,733.66	82.03	9,543.32
96	278,598.44	2,381,739.62	80.48	9,603.88
97	278,675.97	2,381,758.08	80.11	9,683.57
98	278,730.47	2,381,764.19	85.77	9,738.41
99	278,795.21	2,381,766.53	88.96	9,803.19
100	278,864.62	2,381,766.53	92.02	9,872.60
101	278,926.07	2,381,762.19	90.58	9,934.21
102	279,014.83	2,381,766.66	86.98	10,023.08
103	279,097.80	2,381,771.25	73.30	10,106.18

15 San Felipe-Villa de Reyes ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
104	279,174.26	2,381,815.80	61.13	10,194.67
105	279,291.32	2,381,876.77	64.16	10,326.66
106	279,347.91	2,381,902.16	58.56	10,388.68
107	279,427.00	2,381,965.57	52.44	10,490.06
108	279,534.84	2,382,045.04	61.35	10,624.01
109	279,624.90	2,382,079.45	65.62	10,720.42
110	279,702.59	2,382,120.49	57.58	10,808.29
111	279,760.14	2,382,163.85	46.95	10,880.34
112	279,799.50	2,382,209.31	28.18	10,940.48
113	279,807.78	2,382,239.20	12.16	10,971.49
114	279,824.12	2,382,344.12	10.26	11,077.67
115	279,833.49	2,382,389.46	20.20	11,123.97
116	279,851.32	2,382,421.99	27.55	11,161.07
117	279,876.99	2,382,473.78	26.15	11,218.87
118	279,885.67	2,382,491.62	38.81	11,238.71
119	280,032.84	2,382,607.92	45.49	11,426.29
120	280,087.73	2,382,674.97	29.94	11,512.94
121	280,162.60	2,382,874.39	22.15	11,725.95
122	280,220.16	2,383,005.45	28.94	11,869.10
123	280,273.93	2,383,084.65	30.18	11,964.82
124	280,299.17	2,383,135.99	37.97	12,022.03
125	280,390.26	2,383,213.09	50.21	12,141.37
126	280,501.87	2,383,304.55	54.02	12,285.66
127	280,855.93	2,383,531.24	60.37	12,706.08
128	281,191.28	2,383,699.43	56.69	13,081.24
129	281,333.91	2,383,819.06	50.10	13,267.40
130	281,416.35	2,383,887.79	53.41	13,374.73
131	281,849.39	2,384,172.93	58.06	13,893.22
132	281,999.09	2,384,261.14	56.27	14,066.97
133	282,084.52	2,384,325.40	44.96	14,173.87
134	282,133.04	2,384,390.11	48.65	14,254.75
135	282,198.25	2,384,427.11	51.15	14,329.73
136	282,520.49	2,384,786.55	40.56	14,812.47
137	282,697.33	2,385,003.02	32.09	15,091.99
138	282,821.15	2,385,269.42	23.77	15,385.75
139	282,922.15	2,385,511.85	17.04	15,648.38
140	282,940.67	2,385,603.26	2.36	15,741.65
141	282,930.31	2,385,691.11	359.29	15,830.11
142	282,936.51	2,385,757.94	14.44	15,897.23
143	282,977.87	2,385,852.74	25.20	16,000.66
144	283,015.79	2,385,927.74	64.80	16,084.70
145	283,041.32	2,385,921.95	110.55	16,110.88
146	283,054.93	2,385,914.61	112.66	16,126.34
147	283,086.18	2,385,905.07	98.87	16,159.01
148	283,113.65	2,385,904.70	68.47	16,186.49
149	283,142.77	2,385,932.65	24.43	16,226.85
150	283,147.44	2,386,032.29	9.07	16,326.59
151	283,166.03	2,386,099.49	20.44	16,396.32
152	283,237.42	2,386,249.70	28.03	16,562.63
153	283,521.10	2,386,728.48	30.89	17,119.15
154	283,798.84	2,387,188.30	32.20	17,656.33
155	284,078.09	2,387,614.02	31.29	18,165.47

15 San Felipe-Villa de Reyes ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
156	284,417.53	2,388,218.52	18.66	18,858.75
157	284,429.44	2,388,303.27	18.08	18,944.33
158	284,485.19	2,388,407.45	34.98	19,062.49
159	284,797.47	2,388,756.52	39.96	19,530.86
160	285,008.28	2,389,025.28	37.59	19,872.44
161	285,182.30	2,389,255.59	35.58	20,161.09
162	285,611.74	2,389,890.27	34.35	20,927.40
163	285,915.17	2,390,329.77	31.69	21,461.48
164	285,965.13	2,390,420.81	25.94	21,565.33
165	286,026.08	2,390,563.52	31.05	21,720.50
166	286,089.74	2,390,642.21	38.93	21,821.72
167	286,146.20	2,390,712.22	33.34	21,911.66
168	286,228.67	2,390,868.70	24.70	22,088.54
169	286,268.76	2,390,969.92	22.79	22,197.41
170	286,333.37	2,391,115.19	38.49	22,356.40
171	286,381.81	2,391,151.67	42.88	22,417.04
172	286,400.18	2,391,180.23	26.18	22,450.99
173	286,431.89	2,391,269.27	7.77	22,545.52
174	286,414.89	2,391,508.24	353.47	22,785.09
175	286,408.47	2,391,548.83	0.07	22,826.18
176	286,448.20	2,391,796.46	11.01	23,076.98
177	286,531.05	2,392,158.33	8.58	23,448.21
178	286,533.61	2,392,192.49	354.79	23,482.47
179	286,526.16	2,392,220.90	353.22	23,511.84
180	286,527.06	2,392,266.31	4.34	23,557.26
181	286,572.04	2,392,605.27	8.01	23,899.19
182	286,597.98	2,392,779.56	22.98	24,075.40
183	286,710.66	2,392,926.41	42.22	24,260.50
184	286,814.37	2,393,023.34	45.33	24,402.45
185	286,914.88	2,393,128.41	45.72	24,547.86
186	287,004.38	2,393,209.79	46.12	24,668.83
187	287,059.02	2,393,265.36	45.36	24,746.76
188	287,923.66	2,394,094.17	36.66	25,944.48
189	288,457.74	2,395,137.20	27.04	27,116.29
190	288,764.03	2,395,739.27	26.95	27,791.79
191	288,841.66	2,395,892.01	31.53	27,963.13
192	288,956.80	2,396,049.82	31.00	28,158.48
193	289,008.69	2,396,156.77	32.63	28,277.35
194	289,248.29	2,396,448.59	33.91	28,654.93
195	289,304.74	2,396,552.81	50.57	28,773.46
196	289,378.30	2,396,575.73	57.15	28,850.50
197	289,445.49	2,396,651.40	39.09	28,951.70
198	289,879.21	2,397,235.89	37.59	29,679.54
199	290,155.49	2,397,582.03	38.20	30,122.41
200	290,740.80	2,398,336.71	39.45	31,077.47
201	290,812.92	2,398,419.38	51.09	31,187.18
202	291,202.62	2,398,634.67	66.21	31,632.39
203	291,325.39	2,398,676.16	80.11	31,761.99
204	291,371.12	2,398,677.05	50.27	31,807.72
205	291,508.02	2,399,341.14	11.13	32,485.78
206	291,522.99	2,399,421.09	7.70	32,567.12
207	291,529.73	2,399,501.47	7.72	32,647.78

15 San Felipe-Villa de Reyes ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
208	291,549.61	2,399,607.19	13.38	32,755.36
209	291,567.52	2,399,669.21	12.02	32,819.90
210	291,575.39	2,399,725.73	15.94	32,876.97
211	291,609.15	2,399,801.69	19.21	32,960.10
212	291,633.12	2,399,894.63	18.27	33,056.07
213	291,661.04	2,399,963.48	27.64	33,130.37
214	291,756.63	2,400,109.50	351.91	33,304.90
215	291,715.20	2,400,145.03	300.79	33,359.48
216	291,685.99	2,400,156.22	319.06	33,390.75
217	291,682.00	2,400,173.73	9.07	33,408.71
218	291,744.55	2,400,277.89	32.87	33,530.21
219	291,774.72	2,400,321.38	34.28	33,583.13
220	291,859.69	2,400,448.25	40.33	33,735.83
221	291,924.24	2,400,508.78	68.82	33,824.33
222	291,937.58	2,400,508.60	113.09	33,837.67
223	291,945.53	2,400,500.55	130.78	33,848.98
224	291,968.67	2,400,483.63	126.55	33,877.64
225	291,985.83	2,400,470.73	90.12	33,899.11
226	292,000.64	2,400,481.77	52.90	33,917.58
227	293,228.35	2,401,424.32	50.32	35,465.37
228	293,329.38	2,401,514.79	46.58	35,600.99
229	293,633.29	2,401,818.64	44.86	36,030.74
230	293,888.78	2,402,076.66	50.87	36,393.86
231	294,146.93	2,402,244.12	66.06	36,701.56
232	294,315.75	2,402,289.08	75.76	36,876.26
233	294,572.86	2,402,351.11	76.96	37,140.75
234	295,344.71	2,402,522.47	76.19	37,931.40
235	295,805.82	2,402,646.94	70.75	38,409.01
236	295,867.64	2,402,673.68	55.82	38,476.36
237	296,098.41	2,402,904.17	45.26	38,802.53
238	297,838.52	2,404,615.47	40.43	41,243.12
239	297,853.88	2,404,637.10	35.38	41,269.65