

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
0	265,240.16	2,326,335.13	3.30	0.00
1	265,242.92	2,326,383.02	356.88	47.97
2	265,233.17	2,326,441.10	350.69	106.87
3	265,218.69	2,326,531.74	354.87	198.66
4	265,218.40	2,326,545.72	350.17	212.64
5	265,210.99	2,326,567.90	337.88	236.02
6	265,186.90	2,326,617.80	338.46	291.43
7	265,179.99	2,326,639.96	349.49	314.64
8	265,178.49	2,326,663.21	351.17	337.95
9	265,175.85	2,326,673.85	341.07	348.90
10	265,170.95	2,326,684.91	330.29	361.00
11	265,135.90	2,326,734.01	335.85	421.33
12	265,132.23	2,326,750.19	354.32	437.92
13	265,132.50	2,326,761.03	10.40	448.77
14	265,137.23	2,326,774.48	21.25	463.02
15	265,173.33	2,326,859.02	26.09	554.95
16	265,185.30	2,326,880.56	29.16	579.59
17	265,201.39	2,326,909.28	26.57	612.51
18	265,216.79	2,326,944.06	48.39	650.55
19	265,232.64	2,326,948.94	75.24	667.13
20	265,252.13	2,326,953.23	65.50	687.09
21	265,276.15	2,326,971.06	47.73	717.01
22	265,311.40	2,327,010.17	40.15	769.66
23	265,339.43	2,327,045.70	30.46	814.91
24	265,346.35	2,327,062.29	10.75	832.89
25	265,346.03	2,327,078.38	354.00	848.98
26	265,338.50	2,327,117.68	346.77	889.00
27	265,323.99	2,327,169.56	344.63	942.87
28	265,309.23	2,327,224.22	350.63	999.49
29	265,308.19	2,327,240.51	2.06	1,015.81
30	265,311.62	2,327,265.73	17.36	1,041.27
31	265,319.69	2,327,281.58	36.97	1,059.04
32	265,329.87	2,327,291.08	58.02	1,072.97
33	265,341.96	2,327,295.70	80.13	1,085.92
34	265,351.69	2,327,295.51	100.70	1,095.65
35	265,362.94	2,327,291.36	127.75	1,107.64
36	265,369.54	2,327,281.85	151.03	1,119.22
37	265,376.90	2,327,264.68	155.17	1,137.90
38	265,385.84	2,327,246.70	143.39	1,157.97
39	265,402.90	2,327,230.67	124.55	1,181.39
40	265,412.85	2,327,225.84	110.04	1,192.45
41	265,429.65	2,327,221.59	101.61	1,209.77
42	265,444.13	2,327,219.29	95.97	1,224.43
43	265,463.69	2,327,218.30	92.45	1,244.02
44	265,481.36	2,327,217.68	96.32	1,261.70
45	265,494.55	2,327,215.20	122.41	1,275.12
46	265,501.62	2,327,205.42	153.50	1,287.19
47	265,503.62	2,327,198.94	179.30	1,293.98
48	265,501.67	2,327,192.04	208.96	1,301.14
49	265,497.97	2,327,187.95	221.20	1,306.66
50	265,492.44	2,327,181.43	215.43	1,315.20
51	265,488.71	2,327,175.11	210.21	1,322.55

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
52	265,482.65	2,327,164.55	209.38	1,334.72
53	265,476.61	2,327,153.62	203.27	1,347.21
54	265,473.61	2,327,144.15	196.71	1,357.14
55	265,470.93	2,327,134.72	192.16	1,366.95
56	265,469.36	2,327,124.21	189.59	1,377.58
57	265,468.14	2,327,117.74	183.69	1,384.16
58	265,469.14	2,327,100.42	176.66	1,401.51
59	265,469.62	2,327,092.36	175.49	1,409.58
60	265,471.09	2,327,077.37	166.58	1,424.64
61	265,474.00	2,327,069.89	144.81	1,432.66
62	265,481.58	2,327,063.34	117.70	1,442.69
63	265,487.09	2,327,061.91	94.31	1,448.38
64	265,494.56	2,327,062.69	79.32	1,455.89
65	265,500.28	2,327,064.26	59.51	1,461.82
66	265,506.39	2,327,070.50	35.24	1,470.55
67	265,513.39	2,327,084.83	30.21	1,486.50
68	265,595.09	2,327,204.27	38.01	1,631.21
69	265,613.28	2,327,224.73	34.24	1,658.58
70	265,624.30	2,327,246.53	17.71	1,683.01
71	265,629.53	2,327,281.05	356.11	1,717.93
72	265,622.47	2,327,305.05	342.45	1,742.95
73	265,567.04	2,327,468.63	342.76	1,915.66
74	265,555.64	2,327,509.04	340.49	1,957.65
75	265,542.63	2,327,539.30	351.75	1,990.58
76	265,545.77	2,327,565.71	4.99	2,017.18
77	265,546.93	2,327,586.40	11.72	2,037.90
78	265,555.69	2,327,610.19	19.81	2,063.26
79	265,587.54	2,327,700.66	10.18	2,159.17
80	265,588.16	2,327,737.55	0.90	2,196.06
81	265,588.51	2,327,761.02	356.82	2,219.54
82	265,565.42	2,327,943.78	356.51	2,403.75
83	265,565.58	2,327,983.45	356.69	2,443.42
84	265,556.28	2,328,060.92	353.65	2,521.45
85	265,545.83	2,328,162.74	351.26	2,623.80
86	265,536.78	2,328,206.76	341.61	2,668.74
87	265,529.00	2,328,223.32	328.95	2,687.04
88	265,518.36	2,328,237.47	313.69	2,704.74
89	265,500.98	2,328,249.33	295.96	2,725.78
90	265,491.17	2,328,252.44	278.41	2,736.07
91	265,483.16	2,328,252.33	270.82	2,744.09
92	265,475.83	2,328,252.64	266.25	2,751.42
93	265,466.41	2,328,250.99	263.08	2,760.98
94	265,457.06	2,328,250.35	273.61	2,770.35
95	265,446.47	2,328,252.44	293.27	2,781.15
96	265,438.72	2,328,257.94	316.22	2,790.65
97	265,433.94	2,328,265.32	331.40	2,799.44
98	265,398.42	2,328,344.15	331.00	2,885.91
99	265,383.72	2,328,366.16	328.13	2,912.37
100	265,367.73	2,328,393.84	331.54	2,944.34
101	265,355.43	2,328,418.06	338.11	2,971.51
102	265,349.40	2,328,437.95	342.50	2,992.29
103	265,344.64	2,328,452.50	339.74	3,007.60

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
104	265,341.56	2,328,459.98	323.36	3,015.68
105	265,334.54	2,328,465.68	308.02	3,024.73
106	265,327.52	2,328,470.96	303.59	3,033.52
107	265,320.75	2,328,474.91	300.96	3,041.35
108	265,315.03	2,328,478.44	301.92	3,048.07
109	265,308.59	2,328,482.49	309.32	3,055.68
110	265,302.23	2,328,489.18	320.85	3,064.91
111	265,296.90	2,328,496.86	329.56	3,074.25
112	265,291.96	2,328,506.94	337.18	3,085.49
113	265,287.59	2,328,519.27	343.49	3,098.57
114	265,278.57	2,328,556.84	346.10	3,137.21
115	265,271.92	2,328,582.90	341.98	3,164.09
116	265,265.40	2,328,599.25	332.49	3,181.70
117	265,257.58	2,328,611.16	323.67	3,195.95
118	265,238.05	2,328,634.96	329.30	3,226.74
119	265,230.07	2,328,654.70	347.60	3,248.03
120	265,229.07	2,328,675.27	3.10	3,268.63
121	265,233.68	2,328,704.44	1.34	3,298.16
122	265,230.69	2,328,731.46	352.38	3,325.34
123	265,227.30	2,328,753.00	341.60	3,347.15
124	265,217.65	2,328,771.27	329.80	3,367.82
125	265,200.64	2,328,797.92	324.31	3,399.42
126	265,180.85	2,328,822.51	319.10	3,430.99
127	265,131.34	2,328,875.67	318.25	3,503.63
128	265,114.69	2,328,895.13	327.70	3,529.24
129	265,106.02	2,328,914.55	340.57	3,550.51
130	265,101.92	2,328,930.07	346.07	3,566.56
131	265,092.00	2,328,972.79	349.47	3,610.42
132	265,083.81	2,329,031.14	358.28	3,669.35
133	265,085.02	2,329,046.32	23.51	3,684.57
134	265,096.54	2,329,058.91	62.35	3,701.63
135	265,113.28	2,329,061.19	87.97	3,718.53
136	265,134.04	2,329,059.85	93.08	3,739.33
137	265,255.14	2,329,054.67	82.95	3,860.55
138	265,282.72	2,329,062.86	64.22	3,889.32
139	265,306.61	2,329,079.60	53.55	3,918.49
140	265,391.76	2,329,145.84	63.33	4,026.37
141	265,414.71	2,329,152.19	83.42	4,050.18
142	265,433.90	2,329,151.42	100.48	4,069.39
143	265,452.03	2,329,145.30	115.28	4,088.52
144	265,472.66	2,329,132.45	126.05	4,112.83
145	265,584.00	2,329,038.40	134.89	4,258.57
146	265,603.36	2,329,015.65	142.02	4,288.45
147	265,621.71	2,328,989.98	151.98	4,320.00
148	265,631.63	2,328,963.41	152.86	4,348.36
149	265,653.69	2,328,930.49	137.53	4,387.99
150	265,677.50	2,328,911.28	115.75	4,418.59
151	265,706.33	2,328,904.83	95.78	4,448.12
152	265,734.41	2,328,905.35	78.43	4,476.21
153	265,765.20	2,328,917.83	70.05	4,509.43
154	265,801.32	2,328,929.45	80.87	4,547.38
155	265,848.72	2,328,929.80	88.73	4,594.77

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
156	265,881.27	2,328,931.00	89.21	4,627.35
157	265,925.53	2,328,930.59	94.63	4,671.61
158	265,941.03	2,328,928.21	105.71	4,687.29
159	265,953.96	2,328,922.80	118.18	4,701.31
160	265,971.15	2,328,911.35	125.87	4,721.97
161	266,000.94	2,328,888.02	123.07	4,759.80
162	266,013.21	2,328,881.47	117.29	4,773.71
163	266,020.98	2,328,877.60	109.06	4,782.39
164	266,032.76	2,328,875.18	99.56	4,794.41
165	266,044.31	2,328,873.66	97.93	4,806.06
166	266,057.46	2,328,871.72	95.67	4,819.36
167	266,120.40	2,328,868.44	103.47	4,882.38
168	266,133.90	2,328,862.44	120.08	4,897.16
169	266,150.48	2,328,850.31	118.84	4,917.70
170	266,162.29	2,328,845.67	104.80	4,930.39
171	266,180.30	2,328,843.09	102.05	4,948.59
172	266,194.62	2,328,838.99	117.66	4,963.48
173	266,203.03	2,328,832.10	134.79	4,974.35
174	266,225.40	2,328,805.20	124.23	5,009.34
175	266,232.46	2,328,802.88	90.40	5,016.77
176	266,238.49	2,328,804.77	63.94	5,023.09
177	266,247.21	2,328,810.82	48.05	5,033.69
178	266,252.20	2,328,816.59	33.92	5,041.33
179	266,259.90	2,328,831.71	34.84	5,058.30
180	266,274.65	2,328,847.71	46.83	5,080.06
181	266,286.38	2,328,857.21	55.10	5,095.15
182	266,316.53	2,328,875.19	64.19	5,130.25
183	266,336.19	2,328,882.66	59.49	5,151.29
184	266,350.74	2,328,894.96	44.35	5,170.34
185	266,365.28	2,328,912.96	42.52	5,193.48
186	266,403.62	2,328,949.86	48.61	5,246.69
187	266,420.39	2,328,963.38	41.93	5,268.22
188	266,431.87	2,328,981.25	27.45	5,289.47
189	266,446.43	2,329,016.99	25.42	5,328.06
190	266,458.47	2,329,039.00	38.57	5,353.15
191	266,465.23	2,329,044.99	52.61	5,362.19
192	266,497.07	2,329,065.86	42.50	5,400.25
193	266,503.67	2,329,078.15	16.19	5,414.21
194	266,505.12	2,329,098.20	13.51	5,434.31
195	266,510.54	2,329,111.03	31.48	5,448.24
196	266,521.72	2,329,124.32	36.49	5,465.60
197	266,528.00	2,329,134.03	20.58	5,477.16
198	266,529.36	2,329,143.37	2.07	5,486.61
199	266,528.66	2,329,153.09	7.93	5,496.35
200	266,532.88	2,329,164.73	34.98	5,508.73
201	266,566.27	2,329,192.75	50.93	5,552.32
202	266,618.56	2,329,233.80	56.36	5,618.80
203	266,747.50	2,329,305.66	77.33	5,766.41
204	266,752.39	2,329,305.34	105.61	5,771.31
205	266,763.01	2,329,299.83	109.15	5,783.28
206	266,773.33	2,329,297.84	94.05	5,793.79
207	266,792.61	2,329,298.78	76.87	5,813.09

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
208	266,806.02	2,329,304.61	58.17	5,827.71
209	266,816.53	2,329,313.49	34.98	5,841.47
210	266,820.42	2,329,324.09	3.92	5,852.77
211	266,817.20	2,329,338.85	344.18	5,867.87
212	266,811.32	2,329,355.61	339.33	5,885.63
213	266,807.40	2,329,365.31	334.33	5,896.09
214	266,803.09	2,329,372.98	334.62	5,904.89
215	266,799.18	2,329,382.95	345.90	5,915.60
216	266,797.96	2,329,393.20	357.74	5,925.93
217	266,800.60	2,329,460.42	15.07	5,993.20
218	266,879.32	2,329,609.18	37.99	6,161.50
219	266,900.43	2,329,628.13	53.80	6,189.87
220	266,917.61	2,329,638.25	63.51	6,209.81
221	266,928.36	2,329,642.70	73.02	6,221.45
222	266,945.56	2,329,646.19	83.99	6,238.99
223	266,964.70	2,329,646.37	93.67	6,258.14
224	266,978.06	2,329,644.52	101.52	6,271.62
225	266,999.20	2,329,638.80	111.97	6,293.52
226	267,016.13	2,329,629.49	121.22	6,312.84
227	267,065.54	2,329,596.62	113.27	6,372.19
228	267,087.67	2,329,591.54	93.87	6,394.90
229	267,109.47	2,329,593.52	77.26	6,416.79
230	267,135.49	2,329,603.14	68.38	6,444.53
231	267,355.91	2,329,696.42	57.74	6,683.88
232	267,379.52	2,329,717.36	40.66	6,715.43
233	267,426.89	2,329,790.62	49.53	6,802.67
234	267,452.19	2,329,801.80	67.90	6,830.33
235	267,509.34	2,329,823.02	69.64	6,891.30
236	267,636.70	2,329,870.27	70.30	7,027.13
237	267,809.62	2,329,929.95	66.57	7,210.07
238	267,843.27	2,329,947.70	58.11	7,248.12
239	267,891.27	2,329,982.54	57.86	7,307.42
240	267,912.42	2,329,993.93	65.70	7,331.45
241	267,950.54	2,330,008.03	72.65	7,372.09
242	268,121.51	2,330,051.91	72.07	7,548.60
243	268,204.36	2,330,084.48	72.82	7,637.62
244	268,241.65	2,330,093.02	83.07	7,675.87
245	268,262.80	2,330,093.37	90.32	7,697.03
246	268,280.99	2,330,092.87	100.11	7,715.22
247	268,339.36	2,330,073.20	104.37	7,776.82
248	268,369.99	2,330,067.73	112.15	7,807.93
249	268,382.06	2,330,059.53	118.33	7,822.53
250	268,417.24	2,330,044.98	101.64	7,860.60
251	268,449.59	2,330,044.53	82.51	7,892.95
252	268,480.11	2,330,053.14	59.39	7,924.66
253	268,505.47	2,330,078.92	41.13	7,960.83
254	268,542.23	2,330,126.46	44.30	8,020.92
255	268,581.09	2,330,158.05	61.37	8,071.00
256	268,607.24	2,330,166.62	67.17	8,098.52
257	268,631.40	2,330,179.20	66.28	8,125.75
258	268,649.32	2,330,185.70	84.16	8,144.82
259	268,665.50	2,330,183.36	97.97	8,161.17

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
260	268,684.13	2,330,180.83	96.62	8,179.96
261	268,704.01	2,330,178.91	92.41	8,199.94
262	268,722.00	2,330,179.13	73.80	8,217.92
263	268,742.53	2,330,191.82	55.81	8,242.06
264	268,763.82	2,330,207.66	59.90	8,268.60
265	268,783.16	2,330,216.09	52.29	8,289.70
266	268,791.73	2,330,227.01	43.58	8,303.58
267	268,798.55	2,330,232.93	68.90	8,312.61
268	268,808.03	2,330,233.14	94.02	8,322.09
269	268,818.57	2,330,231.41	105.33	8,332.77
270	268,827.46	2,330,227.93	121.63	8,342.32
271	268,838.07	2,330,218.41	154.29	8,356.57
272	268,838.95	2,330,203.39	182.98	8,371.63
273	268,837.08	2,330,191.99	196.82	8,383.18
274	268,831.48	2,330,179.60	213.32	8,396.77
275	268,816.90	2,330,163.59	215.28	8,418.42
276	268,805.98	2,330,143.26	206.55	8,441.50
277	268,793.51	2,330,116.34	204.99	8,471.16
278	268,785.05	2,330,098.29	229.20	8,491.10
279	268,772.03	2,330,094.38	237.82	8,504.69
280	268,744.99	2,330,064.73	211.59	8,544.82
281	268,724.66	2,330,011.26	203.86	8,602.03
282	268,694.86	2,329,952.55	200.31	8,667.86
283	268,688.05	2,329,924.64	182.64	8,696.60
284	268,690.21	2,329,910.05	170.77	8,711.34
285	268,694.24	2,329,887.26	183.63	8,734.49
286	268,687.60	2,329,865.92	197.45	8,756.84
287	268,681.02	2,329,845.18	198.71	8,778.60
288	268,675.12	2,329,828.81	190.19	8,796.00
289	268,674.97	2,329,813.57	144.81	8,811.24
290	268,688.25	2,329,808.98	89.05	8,825.28
291	268,712.40	2,329,818.24	65.97	8,851.15
292	268,834.90	2,329,880.92	70.67	8,988.75
293	268,863.74	2,329,886.81	85.90	9,018.19
294	268,877.72	2,329,886.00	127.32	9,032.20
295	268,882.64	2,329,871.47	175.91	9,047.53
296	268,879.62	2,329,855.21	194.20	9,064.07
297	268,871.53	2,329,830.14	195.49	9,090.41
298	268,859.99	2,329,780.53	190.09	9,141.35
299	268,854.79	2,329,738.68	193.97	9,183.52
300	268,845.02	2,329,713.05	190.23	9,210.95
301	268,845.24	2,329,682.12	185.88	9,241.88
302	268,842.39	2,329,668.92	220.60	9,255.38
303	268,808.48	2,329,655.94	245.78	9,291.69
304	268,780.85	2,329,641.57	237.52	9,322.84
305	268,757.53	2,329,623.68	244.00	9,352.23
306	268,736.67	2,329,618.28	250.99	9,373.77
307	268,719.17	2,329,610.67	241.74	9,392.86
308	268,699.47	2,329,597.87	236.85	9,416.35
309	268,672.98	2,329,580.47	231.35	9,448.05
310	268,659.12	2,329,567.08	227.32	9,467.31
311	268,641.58	2,329,551.65	232.87	9,490.68

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
312	268,621.94	2,329,538.94	241.93	9,514.07
313	268,559.01	2,329,511.94	239.82	9,582.55
314	268,549.38	2,329,504.65	212.99	9,594.62
315	268,547.67	2,329,497.28	170.63	9,602.20
316	268,553.88	2,329,487.29	132.83	9,613.96
317	268,567.00	2,329,480.45	112.95	9,628.75
318	268,584.81	2,329,474.53	109.68	9,647.53
319	268,607.30	2,329,465.91	107.73	9,671.61
320	268,630.87	2,329,459.82	100.36	9,695.95
321	268,650.75	2,329,457.65	101.52	9,715.95
322	268,662.33	2,329,454.15	107.95	9,728.05
323	268,674.26	2,329,450.02	108.95	9,740.68
324	268,686.46	2,329,445.86	98.20	9,753.56
325	268,704.89	2,329,446.65	74.39	9,772.01
326	268,722.07	2,329,456.08	47.79	9,791.61
327	268,770.88	2,329,527.48	42.02	9,878.10
328	268,793.57	2,329,546.73	67.75	9,907.86
329	268,822.93	2,329,548.88	71.89	9,937.29
330	268,860.40	2,329,572.32	55.94	9,981.49
331	268,890.61	2,329,594.34	52.72	10,018.87
332	268,927.60	2,329,623.74	39.11	10,066.12
333	268,947.74	2,329,663.77	40.55	10,110.93
334	268,964.15	2,329,675.52	71.33	10,131.11
335	269,002.85	2,329,676.69	84.44	10,169.84
336	269,045.52	2,329,683.74	82.73	10,213.08
337	269,071.31	2,329,686.07	71.55	10,238.97
338	269,093.50	2,329,699.79	54.35	10,265.07
339	269,120.83	2,329,722.37	47.71	10,300.52
340	269,153.92	2,329,755.49	40.47	10,347.33
341	269,164.77	2,329,770.44	37.31	10,365.80
342	269,176.68	2,329,785.33	46.31	10,384.87
343	269,187.89	2,329,793.49	65.15	10,398.73
344	269,205.42	2,329,797.75	74.70	10,416.78
345	269,221.21	2,329,802.56	65.40	10,433.29
346	269,248.90	2,329,820.03	57.71	10,466.03
347	269,268.96	2,329,832.72	45.72	10,489.76
348	269,276.45	2,329,843.93	30.66	10,503.25
349	269,282.79	2,329,856.07	35.08	10,516.94
350	269,289.59	2,329,863.47	56.29	10,526.99
351	269,303.61	2,329,868.57	67.51	10,541.91
352	269,323.97	2,329,878.06	54.65	10,564.38
353	269,355.09	2,329,909.97	40.78	10,608.95
354	269,363.05	2,329,920.42	33.46	10,622.08
355	269,368.01	2,329,929.14	18.07	10,632.12
356	269,369.99	2,329,946.46	4.48	10,649.54
357	269,370.88	2,329,967.47	6.44	10,670.58
358	269,373.94	2,329,984.07	15.52	10,687.45
359	269,378.95	2,329,997.39	44.11	10,701.68
360	269,385.82	2,330,000.22	83.97	10,709.11
361	269,392.08	2,329,999.08	118.33	10,715.48
362	269,398.57	2,329,992.27	131.89	10,724.88
363	269,406.17	2,329,986.46	127.60	10,734.45

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
364	269,415.31	2,329,979.38	109.51	10,746.01
365	269,425.78	2,329,979.15	79.38	10,756.49
366	269,441.39	2,329,985.61	61.05	10,773.38
367	269,462.07	2,330,000.31	47.24	10,798.75
368	269,472.42	2,330,012.70	39.65	10,814.89
369	269,480.94	2,330,023.07	54.07	10,828.32
370	269,488.48	2,330,026.01	87.03	10,836.41
371	269,496.71	2,330,023.75	109.36	10,844.94
372	269,504.67	2,330,020.31	125.40	10,853.62
373	269,509.34	2,330,015.23	152.87	10,860.51
374	269,510.71	2,330,008.59	173.15	10,867.29
375	269,511.12	2,329,997.04	176.05	10,878.85
376	269,512.34	2,329,985.20	166.69	10,890.75
377	269,517.76	2,329,970.88	177.29	10,906.07
378	269,515.92	2,329,964.15	210.18	10,913.04
379	269,511.46	2,329,959.70	225.21	10,919.34
380	269,505.01	2,329,953.34	215.10	10,928.40
381	269,495.94	2,329,933.73	196.01	10,950.00
382	269,492.50	2,329,906.49	190.75	10,977.46
383	269,487.51	2,329,886.89	191.58	10,997.69
384	269,483.91	2,329,863.81	185.71	11,021.04
385	269,483.24	2,329,848.91	176.24	11,035.96
386	269,485.46	2,329,836.45	163.31	11,048.61
387	269,492.94	2,329,819.07	165.74	11,067.53
388	269,495.72	2,329,788.64	179.33	11,098.09
389	269,493.03	2,329,748.83	189.24	11,137.99
390	269,473.64	2,329,674.44	188.68	11,214.87
391	269,472.13	2,329,643.04	167.87	11,246.30
392	269,482.73	2,329,622.25	128.51	11,269.63
393	269,504.32	2,329,616.86	109.32	11,291.89
394	269,525.85	2,329,607.00	117.97	11,315.57
395	269,569.76	2,329,580.27	125.43	11,366.98
396	269,596.67	2,329,558.07	128.38	11,401.86
397	269,617.21	2,329,542.46	133.24	11,427.67
398	269,631.81	2,329,525.52	133.94	11,450.02
399	269,645.84	2,329,514.31	120.05	11,467.98
400	269,661.26	2,329,508.24	98.35	11,484.56
401	269,674.87	2,329,509.38	66.43	11,498.21
402	269,683.36	2,329,517.12	36.68	11,509.70
403	269,695.70	2,329,542.74	17.50	11,538.14
404	269,698.26	2,329,558.43	17.87	11,554.04
405	269,710.84	2,329,583.70	32.14	11,582.26
406	269,725.54	2,329,602.64	42.51	11,606.24
407	269,742.48	2,329,618.33	35.11	11,629.33
408	269,749.64	2,329,635.18	6.66	11,647.63
409	269,746.92	2,329,651.08	341.09	11,663.77
410	269,740.95	2,329,662.26	327.74	11,676.44
411	269,722.03	2,329,687.93	319.33	11,708.33
412	269,714.44	2,329,695.53	320.31	11,719.07
413	269,704.89	2,329,709.46	319.66	11,735.96
414	269,689.95	2,329,723.77	312.62	11,756.65
415	269,682.48	2,329,730.37	324.78	11,766.62

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
416	269,679.27	2,329,738.35	349.38	11,775.21
417	269,679.53	2,329,760.12	358.69	11,796.99
418	269,677.92	2,329,788.00	354.00	11,824.92
419	269,671.63	2,329,829.15	24.38	11,866.55
420	269,684.51	2,329,837.37	66.58	11,881.83
421	269,700.31	2,329,841.40	86.42	11,898.13
422	269,709.13	2,329,840.29	115.26	11,907.02
423	269,716.92	2,329,832.93	123.86	11,917.74
424	269,732.55	2,329,825.87	108.61	11,934.89
425	269,771.22	2,329,817.01	93.81	11,974.56
426	269,794.38	2,329,819.15	68.18	11,997.82
427	269,813.12	2,329,833.98	40.30	12,021.72
428	269,829.58	2,329,863.72	33.83	12,055.71
429	269,838.86	2,329,875.30	27.18	12,070.56
430	269,843.33	2,329,891.25	27.43	12,087.12
431	269,849.33	2,329,898.61	54.88	12,096.61
432	269,861.23	2,329,902.80	68.07	12,109.23
433	269,877.95	2,329,910.40	56.20	12,127.60
434	269,902.29	2,329,933.24	27.89	12,160.97
435	269,905.01	2,329,950.44	2.10	12,178.39
436	269,902.61	2,329,979.11	357.95	12,207.16
437	269,902.96	2,330,009.53	357.76	12,237.57
438	269,899.60	2,330,046.90	352.42	12,275.10
439	269,894.89	2,330,073.59	346.28	12,302.20
440	269,889.94	2,330,089.35	336.06	12,318.72
441	269,866.67	2,330,128.95	345.22	12,364.66
442	269,866.83	2,330,139.41	21.55	12,375.11
443	269,874.95	2,330,148.36	51.35	12,387.19
444	269,887.00	2,330,155.18	55.90	12,401.05
445	269,911.87	2,330,175.10	40.45	12,432.91
446	269,927.59	2,330,202.78	29.56	12,464.74
447	269,936.39	2,330,218.31	33.49	12,482.60
448	269,950.30	2,330,236.48	36.13	12,505.48
449	269,956.91	2,330,245.98	29.99	12,517.05
450	269,960.21	2,330,253.00	9.82	12,524.81
451	269,959.14	2,330,264.06	6.98	12,535.92
452	269,962.21	2,330,272.74	27.36	12,545.13
453	269,974.14	2,330,289.64	41.04	12,565.81
454	269,986.93	2,330,301.63	48.84	12,583.34
455	269,996.46	2,330,309.39	44.86	12,595.63
456	270,002.51	2,330,316.89	36.24	12,605.27
457	270,010.05	2,330,328.24	44.82	12,618.89
458	270,017.85	2,330,333.50	71.39	12,628.30
459	270,025.00	2,330,333.91	89.58	12,635.46
460	270,032.07	2,330,333.61	96.86	12,642.54
461	270,046.94	2,330,330.64	113.58	12,657.70
462	270,052.16	2,330,326.86	133.47	12,664.15
463	270,058.59	2,330,318.91	155.98	12,674.37
464	270,059.54	2,330,312.94	173.41	12,680.42
465	270,060.23	2,330,303.29	166.31	12,690.10
466	270,063.32	2,330,296.12	161.28	12,697.90
467	270,072.01	2,330,261.59	164.94	12,733.50

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
468	270,080.54	2,330,231.83	170.45	12,764.47
469	270,081.89	2,330,207.10	181.40	12,789.23
470	270,078.64	2,330,175.78	174.20	12,820.71
471	270,084.10	2,330,158.50	151.68	12,838.84
472	270,106.75	2,330,130.63	142.60	12,874.75
473	270,114.85	2,330,119.36	136.70	12,888.64
474	270,124.81	2,330,111.27	117.77	12,901.46
475	270,133.26	2,330,108.77	101.10	12,910.28
476	270,145.59	2,330,107.53	96.53	12,922.67
477	270,174.55	2,330,103.81	97.16	12,951.87
478	270,199.60	2,330,100.74	97.92	12,977.11
479	270,225.08	2,330,096.77	95.25	13,002.90
480	270,280.00	2,330,095.19	91.95	13,057.84
481	270,305.54	2,330,094.18	86.43	13,083.40
482	270,335.54	2,330,099.15	72.89	13,113.80
483	270,351.00	2,330,106.30	56.35	13,130.84
484	270,358.41	2,330,113.09	26.19	13,140.88
485	270,359.88	2,330,130.45	359.74	13,158.31
486	270,357.71	2,330,153.58	354.27	13,181.54
487	270,355.72	2,330,172.26	2.00	13,200.33
488	270,357.80	2,330,184.02	21.61	13,212.27
489	270,364.43	2,330,194.17	31.16	13,224.40
490	270,373.37	2,330,210.18	21.52	13,242.73
491	270,380.23	2,330,237.98	15.84	13,271.36
492	270,389.03	2,330,265.36	14.64	13,300.12
493	270,393.22	2,330,286.02	22.87	13,321.21
494	270,400.37	2,330,296.51	50.53	13,333.90
495	270,410.83	2,330,300.99	82.37	13,345.28
496	270,420.25	2,330,299.68	109.46	13,354.79
497	270,434.55	2,330,291.10	121.50	13,371.47
498	270,445.75	2,330,284.09	116.24	13,384.68
499	270,455.99	2,330,280.27	104.55	13,395.61
500	270,530.39	2,330,268.97	88.58	13,470.86
501	270,548.18	2,330,272.58	66.03	13,489.01
502	270,562.53	2,330,283.19	43.00	13,506.86
503	270,576.19	2,330,304.68	14.89	13,532.32
504	270,575.30	2,330,323.73	351.04	13,551.39
505	270,569.65	2,330,344.49	352.73	13,572.91
506	270,569.76	2,330,354.04	13.12	13,582.47
507	270,577.52	2,330,370.29	20.83	13,600.47
508	270,581.90	2,330,385.42	22.53	13,616.22
509	270,592.45	2,330,404.51	24.12	13,638.03
510	270,597.48	2,330,418.88	16.75	13,653.25
511	270,601.88	2,330,436.26	39.36	13,671.18
512	270,615.37	2,330,442.68	75.08	13,686.13
513	270,635.32	2,330,444.21	104.37	13,706.13
514	270,643.79	2,330,438.69	108.07	13,716.25
515	270,659.31	2,330,437.87	75.52	13,731.79
516	270,675.34	2,330,447.88	55.32	13,750.69
517	270,690.84	2,330,459.73	71.69	13,770.20
518	270,701.73	2,330,459.58	90.82	13,781.09
519	270,715.55	2,330,459.37	88.83	13,794.91

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
520	270,741.55	2,330,460.82	81.26	13,820.95
521	270,763.89	2,330,466.51	67.83	13,844.01
522	270,793.13	2,330,483.42	49.63	13,877.79
523	270,808.27	2,330,501.91	16.12	13,901.68
524	270,806.41	2,330,516.88	343.30	13,916.76
525	270,798.66	2,330,532.55	329.03	13,934.24
526	270,790.08	2,330,544.53	312.24	13,948.98
527	270,779.69	2,330,550.55	300.58	13,960.99
528	270,767.32	2,330,558.00	290.63	13,975.42
529	270,753.08	2,330,560.56	287.86	13,989.90
530	270,729.03	2,330,572.04	298.16	14,016.54
531	270,713.68	2,330,581.20	292.83	14,034.42
532	270,694.05	2,330,586.40	289.31	14,054.72
533	270,673.09	2,330,595.63	292.78	14,077.63
534	270,656.27	2,330,602.36	282.88	14,095.74
535	270,631.31	2,330,604.08	290.90	14,120.77
536	270,623.19	2,330,610.39	302.30	14,131.05
537	270,610.52	2,330,616.78	298.06	14,145.23
538	270,595.31	2,330,625.34	304.07	14,162.69
539	270,557.56	2,330,655.65	315.14	14,211.10
540	270,546.85	2,330,669.12	347.40	14,228.31
541	270,552.10	2,330,691.36	337.19	14,251.16
542	270,530.57	2,330,704.35	308.37	14,276.31
543	270,511.55	2,330,723.80	313.93	14,303.51
544	270,496.77	2,330,737.21	337.12	14,323.47
545	270,497.25	2,330,751.02	25.81	14,337.29
546	270,504.97	2,330,757.58	68.72	14,347.42
547	270,517.51	2,330,758.05	83.75	14,359.96
548	270,541.17	2,330,762.38	78.02	14,384.01
549	270,564.15	2,330,767.94	64.29	14,407.66
550	270,574.93	2,330,776.30	61.46	14,421.30
551	270,592.65	2,330,782.50	83.34	14,440.08
552	270,607.87	2,330,780.91	95.18	14,455.37
553	270,646.41	2,330,777.94	87.04	14,494.04
554	270,665.22	2,330,781.37	77.39	14,513.16
555	270,684.15	2,330,786.40	66.25	14,532.74
556	270,699.90	2,330,796.48	76.86	14,551.44
557	270,721.13	2,330,794.13	82.45	14,572.79
558	270,733.94	2,330,799.15	62.21	14,586.56
559	270,754.06	2,330,812.80	47.17	14,610.87
560	270,787.28	2,330,854.56	52.29	14,664.23
561	270,802.90	2,330,861.49	77.98	14,681.32
562	270,817.99	2,330,861.52	101.22	14,696.41
563	270,842.63	2,330,851.29	107.33	14,723.09
564	270,869.90	2,330,845.44	96.63	14,750.99
565	270,894.33	2,330,844.94	86.65	14,775.42
566	270,925.73	2,330,849.28	74.46	14,807.12
567	270,947.87	2,330,858.77	33.77	14,831.20
568	270,948.05	2,330,873.08	351.48	14,845.51
569	270,940.58	2,330,896.35	339.06	14,869.95
570	270,918.84	2,330,945.01	325.67	14,923.24
571	270,907.99	2,330,956.02	303.44	14,938.70

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
572	270,897.63	2,330,960.09	285.59	14,949.84
573	270,881.18	2,330,962.90	271.78	14,966.52
574	270,843.55	2,330,958.86	265.10	15,004.37
575	270,816.49	2,330,957.12	267.77	15,031.48
576	270,779.04	2,330,956.61	248.88	15,068.93
577	270,768.29	2,330,947.12	245.63	15,083.27
578	270,744.58	2,330,944.08	273.38	15,107.19
579	270,685.09	2,330,958.98	280.90	15,168.51
580	270,645.76	2,330,964.32	289.24	15,208.21
581	270,628.10	2,330,974.82	319.11	15,228.76
582	270,614.63	2,331,007.29	318.71	15,263.90
583	270,593.30	2,331,019.59	299.78	15,288.52
584	270,561.28	2,331,037.77	286.01	15,325.34
585	270,527.33	2,331,039.20	266.91	15,359.32
586	270,486.18	2,331,032.98	279.51	15,400.94
587	270,456.71	2,331,048.39	321.15	15,434.20
588	270,450.26	2,331,071.95	351.35	15,458.62
589	270,449.54	2,331,092.73	38.15	15,479.41
590	270,469.55	2,331,096.88	78.97	15,499.84
591	270,528.12	2,331,107.57	69.45	15,559.39
592	270,542.02	2,331,115.84	61.12	15,575.56
593	270,568.87	2,331,129.52	73.88	15,605.70
594	270,586.59	2,331,131.14	90.35	15,623.50
595	270,616.90	2,331,127.99	85.39	15,653.96
596	270,637.98	2,331,133.70	76.11	15,675.80
597	270,657.62	2,331,138.10	79.35	15,695.93
598	270,679.53	2,331,141.44	64.96	15,718.09
599	270,700.91	2,331,160.30	38.81	15,746.59
600	270,713.13	2,331,182.32	44.46	15,771.78
601	270,739.42	2,331,197.57	62.60	15,802.17
602	270,758.14	2,331,206.17	42.23	15,822.78
603	270,768.13	2,331,234.97	5.71	15,853.26
604	270,764.21	2,331,263.93	350.18	15,882.49
605	270,757.78	2,331,294.37	340.41	15,913.60
606	270,745.68	2,331,317.87	348.62	15,940.04
607	270,746.75	2,331,331.52	38.99	15,953.73
608	270,763.07	2,331,336.36	84.58	15,970.75
609	270,790.09	2,331,333.67	91.11	15,997.90
610	270,805.50	2,331,334.60	88.73	16,013.34
611	270,824.84	2,331,334.30	88.64	16,032.69
612	270,850.09	2,331,335.90	79.02	16,057.99
613	270,884.38	2,331,347.26	82.27	16,094.11
614	270,911.68	2,331,345.89	101.95	16,121.44
615	270,947.53	2,331,332.10	108.27	16,159.85
616	270,973.16	2,331,325.00	104.34	16,186.44
617	270,994.69	2,331,319.95	95.05	16,208.56
618	271,035.50	2,331,322.14	82.78	16,249.43
619	271,071.34	2,331,329.34	59.27	16,285.99
620	271,091.98	2,331,354.03	21.63	16,318.17
621	271,093.77	2,331,384.40	2.89	16,348.59
622	271,094.43	2,331,400.08	354.18	16,364.28
623	271,087.65	2,331,427.17	351.68	16,392.20

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
624	271,087.01	2,331,441.47	11.59	16,406.52
625	271,100.55	2,331,469.54	34.77	16,437.69
626	271,117.56	2,331,487.28	36.86	16,462.27
627	271,125.61	2,331,501.27	9.73	16,478.41
628	271,121.13	2,331,525.55	348.09	16,503.10
629	271,117.40	2,331,541.28	0.23	16,519.27
630	271,123.32	2,331,565.40	13.37	16,544.10
631	271,129.27	2,331,591.32	16.03	16,570.69
632	271,138.83	2,331,618.87	14.76	16,599.85
633	271,147.72	2,331,667.37	11.99	16,649.16
634	271,159.23	2,331,715.02	20.63	16,698.18
635	271,168.71	2,331,733.09	31.17	16,718.59
636	271,179.48	2,331,748.66	21.06	16,737.52
637	271,182.73	2,331,773.48	6.46	16,762.55
638	271,185.62	2,331,803.82	6.57	16,793.03
639	271,187.88	2,331,820.53	17.95	16,809.89
640	271,197.56	2,331,838.57	34.88	16,830.36
641	271,208.97	2,331,851.44	60.03	16,847.56
642	271,225.09	2,331,854.72	87.10	16,864.02
643	271,237.04	2,331,853.53	108.89	16,876.03
644	271,259.84	2,331,839.23	120.26	16,902.93
645	271,280.89	2,331,827.84	113.72	16,926.88
646	271,304.52	2,331,819.69	101.00	16,951.86
647	271,337.01	2,331,818.00	90.85	16,984.40
648	271,364.03	2,331,818.61	87.63	17,011.43
649	271,394.88	2,331,820.46	94.49	17,042.33
650	271,412.41	2,331,816.60	108.77	17,060.28
651	271,444.16	2,331,801.72	121.29	17,095.35
652	271,470.22	2,331,781.75	121.57	17,128.18
653	271,488.82	2,331,772.81	99.30	17,148.82
654	271,507.24	2,331,775.09	82.57	17,167.38
655	271,533.75	2,331,778.72	85.17	17,194.14
656	271,573.56	2,331,780.01	86.79	17,233.97
657	271,599.08	2,331,782.05	89.74	17,259.57
658	271,619.67	2,331,780.59	101.59	17,280.22
659	271,640.89	2,331,773.23	104.53	17,302.67
660	271,657.61	2,331,770.30	81.98	17,319.65
661	271,667.71	2,331,775.22	48.89	17,330.88
662	271,682.70	2,331,797.67	31.93	17,357.87
663	271,703.67	2,331,833.79	33.10	17,399.64
664	271,719.40	2,331,855.40	30.93	17,426.37
665	271,725.75	2,331,868.53	0.26	17,440.95
666	271,721.41	2,331,877.72	306.00	17,451.12
667	271,713.46	2,331,878.74	265.11	17,459.13
668	271,703.54	2,331,875.69	247.15	17,469.51
669	271,685.08	2,331,865.61	244.71	17,490.55
670	271,653.87	2,331,853.04	256.29	17,524.19
671	271,633.93	2,331,851.13	271.92	17,544.22
672	271,614.90	2,331,854.25	284.39	17,563.50
673	271,598.10	2,331,860.18	293.04	17,581.33
674	271,573.29	2,331,872.62	306.43	17,609.07
675	271,556.84	2,331,889.80	325.43	17,632.87

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
676	271,544.75	2,331,915.27	326.18	17,661.06
677	271,532.91	2,331,928.31	308.95	17,678.66
678	271,503.70	2,331,945.27	299.68	17,712.45
679	271,409.13	2,331,998.14	308.55	17,820.79
680	271,394.00	2,332,014.88	337.22	17,843.36
681	271,392.71	2,332,036.19	14.74	17,864.70
682	271,403.65	2,332,053.07	18.31	17,884.82
683	271,404.44	2,332,065.43	324.04	17,897.21
684	271,395.88	2,332,067.63	273.00	17,906.05
685	271,370.72	2,332,063.90	264.35	17,931.48
686	271,341.74	2,332,062.45	278.07	17,960.50
687	271,323.47	2,332,068.75	295.42	17,979.83
688	271,259.89	2,332,108.21	310.60	18,054.65
689	271,241.55	2,332,129.59	330.62	18,082.82
690	271,235.61	2,332,147.74	331.67	18,101.92
691	271,226.52	2,332,159.16	317.03	18,116.52
692	271,193.89	2,332,189.15	326.84	18,160.83
693	271,184.86	2,332,215.51	339.22	18,188.70
694	271,177.33	2,332,233.54	329.03	18,208.24
695	271,160.05	2,332,254.67	326.15	18,235.54
696	271,151.95	2,332,269.63	345.35	18,252.55
697	271,151.52	2,332,297.42	3.84	18,280.34
698	271,159.29	2,332,349.02	24.04	18,332.52
699	271,172.49	2,332,365.02	41.16	18,353.26
700	271,210.21	2,332,405.74	52.49	18,408.77
701	271,256.67	2,332,430.25	44.28	18,461.30
702	271,265.03	2,332,447.12	1.67	18,480.13
703	271,255.82	2,332,468.79	318.48	18,503.67
704	271,231.27	2,332,482.95	297.84	18,532.01
705	271,148.25	2,332,522.90	301.24	18,624.14
706	271,124.90	2,332,540.36	329.25	18,653.30
707	271,122.59	2,332,556.18	354.60	18,669.29
708	271,121.89	2,332,572.11	10.64	18,685.24
709	271,127.24	2,332,584.25	30.22	18,698.50
710	271,133.88	2,332,593.16	52.20	18,709.61
711	271,147.63	2,332,598.79	70.67	18,724.47
712	271,162.32	2,332,603.11	67.11	18,739.79
713	271,179.24	2,332,612.64	59.28	18,759.20
714	271,200.89	2,332,626.19	66.05	18,784.74
715	271,217.46	2,332,630.90	82.00	18,801.97
716	271,239.61	2,332,630.96	85.42	18,824.12
717	271,267.39	2,332,635.36	65.96	18,852.25
718	271,282.43	2,332,647.57	7.37	18,871.62
719	271,274.47	2,332,658.45	313.91	18,885.10
720	271,257.08	2,332,670.18	297.60	18,906.07
721	271,239.13	2,332,677.14	287.93	18,925.33
722	271,225.36	2,332,680.74	280.43	18,939.56
723	271,210.32	2,332,682.38	274.68	18,954.69
724	271,166.44	2,332,684.81	279.71	18,998.64
725	271,143.95	2,332,691.36	297.20	19,022.06
726	271,126.91	2,332,704.74	320.59	19,043.73
727	271,114.99	2,332,728.18	347.58	19,070.03

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
728	271,117.71	2,332,801.35	13.99	19,143.25
729	271,124.07	2,332,814.48	34.67	19,157.83
730	271,139.98	2,332,831.25	41.76	19,180.95
731	271,172.21	2,332,869.63	32.80	19,231.07
732	271,184.24	2,332,894.75	9.40	19,258.93
733	271,181.66	2,332,916.39	343.43	19,280.72
734	271,164.46	2,332,951.13	340.79	19,319.49
735	271,159.60	2,332,973.86	19.38	19,342.73
736	271,168.87	2,332,981.41	58.82	19,354.69
737	271,178.37	2,332,985.49	77.06	19,365.02
738	271,189.96	2,332,986.03	98.84	19,376.63
739	271,199.77	2,332,982.39	101.31	19,387.09
740	271,216.57	2,332,981.73	63.44	19,403.90
741	271,222.23	2,332,989.93	28.23	19,413.87
742	271,231.59	2,333,013.31	15.82	19,439.05
743	271,244.35	2,333,087.02	27.86	19,513.86
744	271,253.69	2,333,096.08	60.27	19,526.87
745	271,271.11	2,333,100.86	58.47	19,544.93
746	271,287.40	2,333,118.78	27.77	19,569.15
747	271,292.33	2,333,139.69	348.19	19,590.63
748	271,280.67	2,333,155.24	330.48	19,610.07
749	271,275.04	2,333,169.04	359.87	19,624.97
750	271,287.63	2,333,200.33	24.51	19,658.70
751	271,296.75	2,333,218.16	13.91	19,678.73
752	271,297.28	2,333,260.22	354.33	19,720.80
753	271,293.04	2,333,280.05	349.15	19,741.07
754	271,287.94	2,333,310.12	354.81	19,771.57
755	271,287.31	2,333,357.86	12.29	19,819.31
756	271,301.26	2,333,387.33	24.05	19,851.92
757	271,312.37	2,333,413.79	40.67	19,880.61
758	271,336.45	2,333,428.50	66.03	19,908.84
759	271,365.75	2,333,437.19	85.80	19,939.40
760	271,424.28	2,333,428.84	90.92	19,998.52
761	271,442.46	2,333,430.84	65.94	20,016.80
762	271,454.74	2,333,441.84	37.35	20,033.30
763	271,461.01	2,333,454.39	9.11	20,047.32
764	271,456.97	2,333,482.06	355.69	20,075.29
765	271,456.81	2,333,511.03	6.18	20,104.26
766	271,465.22	2,333,548.45	21.53	20,142.61
767	271,484.04	2,333,580.53	32.40	20,179.81
768	271,502.91	2,333,608.09	44.34	20,213.21
769	271,523.29	2,333,622.75	66.01	20,238.31
770	271,551.95	2,333,628.97	77.03	20,267.63
771	271,589.06	2,333,638.02	63.96	20,305.84
772	271,609.43	2,333,654.15	53.36	20,331.82
773	271,629.34	2,333,668.04	72.56	20,356.10
774	271,651.06	2,333,668.03	93.05	20,377.81
775	271,672.69	2,333,665.73	100.69	20,399.56
776	271,686.32	2,333,662.00	122.33	20,413.70
777	271,700.09	2,333,645.95	139.93	20,434.84
778	271,742.73	2,333,594.21	132.09	20,501.89
779	271,758.23	2,333,583.88	112.46	20,520.52

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
780	271,771.22	2,333,581.30	87.14	20,533.76
781	271,781.97	2,333,584.58	40.86	20,545.00
782	271,783.84	2,333,596.83	358.36	20,557.39
783	271,776.95	2,333,629.37	15.01	20,590.65
784	271,793.06	2,333,647.28	56.26	20,614.74
785	271,817.18	2,333,655.80	63.32	20,640.32
786	271,834.99	2,333,667.77	358.88	20,661.78
787	271,819.41	2,333,677.37	283.83	20,680.07
788	271,807.82	2,333,676.56	276.11	20,691.70
789	271,784.00	2,333,683.49	311.06	20,716.50
790	271,772.26	2,333,709.73	340.96	20,745.25
791	271,765.61	2,333,736.44	326.01	20,772.78
792	271,745.51	2,333,751.05	291.84	20,797.63
793	271,720.38	2,333,754.43	277.95	20,822.98
794	271,686.97	2,333,759.27	262.96	20,856.74
795	271,661.01	2,333,748.61	257.37	20,884.80
796	271,635.40	2,333,747.29	285.93	20,910.44
797	271,590.48	2,333,778.53	302.38	20,965.16
798	271,570.18	2,333,790.23	294.57	20,988.59
799	271,551.33	2,333,796.78	300.82	21,008.54
800	271,540.04	2,333,807.12	337.57	21,023.85
801	271,541.89	2,333,846.66	8.64	21,063.44
802	271,556.82	2,333,903.95	29.29	21,122.65
803	271,579.24	2,333,927.20	23.36	21,154.94
804	271,580.57	2,333,954.85	22.32	21,182.63
805	271,602.67	2,333,979.50	28.85	21,215.73
806	271,608.42	2,333,999.81	13.28	21,236.85
807	271,614.33	2,334,030.99	1.25	21,268.57
808	271,605.06	2,334,095.07	352.15	21,333.32
809	271,598.18	2,334,147.50	23.36	21,386.21
810	271,644.29	2,334,180.76	61.26	21,443.06
811	271,663.66	2,334,188.46	83.16	21,463.89
812	271,682.50	2,334,185.81	118.15	21,482.92
813	271,697.43	2,334,169.05	130.03	21,505.37
814	271,729.17	2,334,149.43	120.31	21,542.69
815	271,756.96	2,334,134.08	123.58	21,574.43
816	271,791.72	2,334,106.67	132.32	21,618.70
817	271,819.32	2,334,077.71	142.92	21,658.71
818	271,832.34	2,334,055.64	129.39	21,684.33
819	271,859.13	2,334,046.25	101.54	21,712.71
820	271,890.05	2,334,044.22	94.53	21,743.70
821	271,957.24	2,334,037.99	78.42	21,811.19
822	271,986.83	2,334,054.02	56.98	21,844.84
823	272,021.88	2,334,080.99	26.45	21,889.06
824	272,022.10	2,334,106.91	354.36	21,914.98
825	272,016.77	2,334,132.48	5.71	21,941.10
826	272,027.72	2,334,158.05	51.92	21,968.91
827	272,127.43	2,334,174.44	71.18	22,069.96
828	272,156.23	2,334,189.95	70.79	22,102.67
829	272,194.35	2,334,196.75	59.70	22,141.39
830	272,214.99	2,334,221.78	24.16	22,173.83
831	272,219.21	2,334,249.04	341.12	22,201.41

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
832	272,196.67	2,334,270.38	333.02	22,232.45
833	272,193.55	2,334,294.39	9.54	22,256.66
834	272,207.35	2,334,322.09	16.61	22,287.61
835	272,210.64	2,334,349.93	358.18	22,315.64
836	272,206.10	2,334,374.75	330.75	22,340.88
837	272,191.75	2,334,387.61	304.49	22,360.14
838	272,158.76	2,334,404.50	300.59	22,397.21
839	272,143.51	2,334,414.81	328.41	22,415.62
840	272,141.88	2,334,427.64	11.28	22,428.55
841	272,152.28	2,334,445.79	17.70	22,449.47
842	272,155.56	2,334,479.43	4.45	22,483.26
843	272,156.80	2,334,500.74	15.82	22,504.61
844	272,172.44	2,334,529.76	37.21	22,537.57
845	272,217.66	2,334,573.30	54.47	22,600.34
846	272,236.17	2,334,582.79	61.24	22,621.15
847	272,259.85	2,334,596.67	67.30	22,648.60
848	272,281.48	2,334,602.47	81.25	22,670.99
849	272,302.30	2,334,603.37	69.83	22,691.83
850	272,324.42	2,334,620.57	35.45	22,719.84
851	272,348.41	2,334,691.17	20.39	22,794.41
852	272,360.78	2,334,721.79	39.55	22,827.44
853	272,373.66	2,334,730.12	58.58	22,842.78
854	272,414.08	2,334,753.41	39.07	22,889.42
855	272,423.47	2,334,782.17	21.02	22,919.68
856	272,439.73	2,334,818.77	33.47	22,959.73
857	272,481.69	2,334,863.78	32.86	23,021.26
858	272,517.54	2,334,949.37	16.54	23,114.06
859	272,528.14	2,335,007.38	12.90	23,173.02
860	272,540.96	2,335,053.74	31.69	23,221.12
861	272,611.01	2,335,116.98	46.26	23,315.50
862	272,642.18	2,335,148.59	37.15	23,359.89
863	272,652.30	2,335,166.33	4.35	23,380.32
864	272,643.17	2,335,190.11	324.44	23,405.79
865	272,630.98	2,335,200.30	297.25	23,421.68
866	272,616.37	2,335,204.10	280.94	23,436.78
867	272,591.70	2,335,207.26	280.79	23,461.65
868	272,574.29	2,335,211.69	305.61	23,479.62
869	272,567.14	2,335,222.67	343.36	23,492.72
870	272,567.02	2,335,255.31	346.50	23,525.36
871	272,560.80	2,335,267.64	318.04	23,539.17
872	272,551.15	2,335,273.87	321.31	23,550.64
873	272,545.37	2,335,289.53	345.63	23,567.34
874	272,538.86	2,335,333.21	342.80	23,611.50
875	272,530.17	2,335,351.09	338.39	23,631.38
876	272,521.87	2,335,377.78	12.24	23,659.34
877	272,555.35	2,335,415.29	41.52	23,709.61
878	272,570.65	2,335,432.71	51.10	23,732.81
879	272,588.60	2,335,442.70	38.82	23,753.34
880	272,597.54	2,335,472.46	37.72	23,784.42
881	272,629.25	2,335,491.74	74.09	23,821.53
882	272,654.26	2,335,491.97	90.65	23,846.54
883	272,711.42	2,335,490.15	109.33	23,903.73

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
884	272,747.37	2,335,463.23	142.43	23,948.64
885	272,762.49	2,335,425.74	144.20	23,989.06
886	272,789.40	2,335,402.86	121.50	24,024.38
887	272,822.74	2,335,388.96	102.80	24,060.51
888	272,845.39	2,335,387.79	67.32	24,083.18
889	272,864.14	2,335,408.85	46.96	24,111.38
890	272,894.57	2,335,432.42	45.72	24,149.87
891	272,911.03	2,335,452.61	23.14	24,175.92
892	272,920.31	2,335,527.28	10.29	24,251.17
893	272,929.08	2,335,563.79	22.31	24,288.71
894	272,946.96	2,335,593.41	19.00	24,323.31
895	272,950.03	2,335,618.86	57.37	24,348.95
896	272,974.36	2,335,611.02	127.52	24,374.52
897	272,994.17	2,335,580.30	155.71	24,411.08
898	273,003.81	2,335,546.14	155.96	24,446.57
899	273,023.65	2,335,514.79	131.69	24,483.67
900	273,050.11	2,335,502.05	112.83	24,513.03
901	273,081.51	2,335,490.65	83.39	24,546.44
902	273,092.81	2,335,498.05	29.91	24,559.95
903	273,094.04	2,335,521.43	3.78	24,583.36
904	273,096.27	2,335,549.42	22.10	24,611.44
905	273,114.81	2,335,571.80	27.26	24,640.51
906	273,120.74	2,335,594.12	20.07	24,663.60
907	273,135.03	2,335,624.40	52.64	24,697.08
908	273,152.01	2,335,627.39	104.15	24,714.32
909	273,165.36	2,335,616.85	132.10	24,731.34
910	273,188.27	2,335,593.19	120.65	24,764.27
911	273,219.57	2,335,584.58	87.29	24,796.73
912	273,243.37	2,335,593.62	71.81	24,822.19
913	273,266.76	2,335,600.14	80.77	24,846.48
914	273,298.10	2,335,601.72	50.79	24,877.85
915	273,303.15	2,335,621.32	15.41	24,898.09
916	273,307.28	2,335,635.40	45.78	24,912.77
917	273,319.70	2,335,638.68	88.06	24,925.61
918	273,346.21	2,335,633.57	85.94	24,952.61
919	273,368.60	2,335,641.30	53.50	24,976.29
920	273,385.50	2,335,664.52	22.60	25,005.02
921	273,390.51	2,335,695.59	4.20	25,036.49
922	273,390.14	2,335,722.96	10.11	25,063.85
923	273,397.88	2,335,743.13	53.67	25,085.46
924	273,412.50	2,335,744.05	98.21	25,100.11
925	273,429.18	2,335,737.97	101.40	25,117.87
926	273,445.28	2,335,737.19	82.60	25,133.99
927	273,466.45	2,335,743.89	59.03	25,156.19
928	273,473.96	2,335,751.23	33.87	25,166.69
929	273,481.48	2,335,769.73	11.00	25,186.66
930	273,481.43	2,335,790.35	18.40	25,207.28
931	273,499.30	2,335,814.12	68.42	25,237.01
932	273,512.15	2,335,811.87	122.46	25,250.06
933	273,522.91	2,335,796.50	141.39	25,268.82
934	273,532.09	2,335,786.38	121.19	25,282.49
935	273,548.91	2,335,781.99	87.48	25,299.87

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
936	273,565.35	2,335,787.86	69.24	25,317.32
937	273,581.65	2,335,794.41	59.84	25,334.89
938	273,593.43	2,335,803.75	28.29	25,349.92
939	273,595.41	2,335,826.29	7.26	25,372.54
940	273,599.16	2,335,848.72	349.53	25,395.29
941	273,588.22	2,335,867.34	332.19	25,416.89
942	273,575.70	2,335,893.96	1.25	25,446.30
943	273,582.63	2,335,907.16	55.80	25,461.21
944	273,599.49	2,335,908.96	94.45	25,478.17
945	273,617.72	2,335,904.08	104.40	25,497.04
946	273,634.94	2,335,899.85	96.05	25,514.77
947	273,655.63	2,335,900.46	70.19	25,535.47
948	273,676.63	2,335,916.82	43.13	25,562.09
949	273,698.44	2,335,948.93	51.03	25,600.91
950	273,729.23	2,335,961.45	57.21	25,634.14
951	273,748.12	2,335,979.35	36.22	25,660.17
952	273,759.66	2,336,003.14	21.25	25,686.61
953	273,768.47	2,336,032.62	4.32	25,717.38
954	273,764.47	2,336,061.11	356.21	25,746.15
955	273,764.61	2,336,080.92	25.64	25,765.96
956	273,785.45	2,336,097.87	54.93	25,792.82
957	273,868.17	2,336,147.63	65.08	25,889.35
958	273,888.62	2,336,154.60	62.23	25,910.96
959	273,900.72	2,336,163.63	64.08	25,926.06
960	273,917.81	2,336,168.24	95.92	25,943.76
961	273,932.17	2,336,160.94	108.52	25,959.87
962	273,954.82	2,336,156.92	90.56	25,982.87
963	273,981.62	2,336,161.14	77.17	26,010.01
964	274,060.87	2,336,184.91	70.47	26,092.75
965	274,082.96	2,336,194.00	61.17	26,116.63
966	274,116.29	2,336,217.59	46.40	26,157.46
967	274,169.04	2,336,284.90	35.18	26,242.98
968	274,207.02	2,336,345.05	22.10	26,314.12
969	274,216.13	2,336,388.20	358.51	26,358.22
970	274,205.33	2,336,428.77	333.25	26,400.20
971	274,162.63	2,336,482.26	320.78	26,468.64
972	274,139.96	2,336,509.43	301.67	26,504.03
973	274,099.22	2,336,518.97	294.37	26,545.88
974	274,084.15	2,336,529.75	6.68	26,564.41
975	274,104.80	2,336,538.18	70.58	26,586.72
976	274,128.10	2,336,545.14	80.12	26,611.04
977	274,157.31	2,336,546.73	97.85	26,640.28
978	274,196.09	2,336,533.52	108.33	26,681.26
979	274,219.28	2,336,526.06	89.94	26,705.62
980	274,236.39	2,336,531.60	43.34	26,723.60
981	274,240.72	2,336,548.21	10.98	26,740.77
982	274,251.69	2,336,633.45	14.66	26,826.72
983	274,275.74	2,336,692.98	38.72	26,890.92
984	274,315.27	2,336,720.21	63.70	26,938.92
985	274,350.87	2,336,731.80	102.94	26,976.36
986	274,381.32	2,336,702.48	130.31	27,018.63
987	274,422.79	2,336,671.56	139.80	27,070.36

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
988	274,439.96	2,336,637.99	147.69	27,108.07
989	274,469.52	2,336,599.51	136.81	27,156.60
990	274,536.87	2,336,540.66	121.79	27,246.03
991	274,598.75	2,336,515.10	106.04	27,312.98
992	274,649.94	2,336,506.41	100.72	27,364.90
993	274,683.23	2,336,499.46	114.29	27,398.91
994	274,736.75	2,336,459.43	118.33	27,465.75
995	274,788.56	2,336,440.72	97.62	27,520.83
996	274,857.97	2,336,446.33	76.02	27,590.46
997	274,943.16	2,336,483.10	78.39	27,683.26
998	274,994.92	2,336,482.98	53.90	27,735.02
999	275,000.58	2,336,500.75	26.25	27,753.66
1000	275,019.39	2,336,527.77	41.19	27,786.59
1001	275,039.78	2,336,546.42	51.47	27,814.22
1002	275,064.27	2,336,563.32	54.83	27,843.97
1003	275,081.17	2,336,575.48	79.00	27,864.79
1004	275,098.90	2,336,571.14	92.44	27,883.05
1005	275,126.05	2,336,575.36	71.56	27,910.52
1006	275,161.37	2,336,594.18	68.55	27,950.54
1007	275,177.17	2,336,598.37	94.44	27,966.89
1008	275,185.70	2,336,594.62	122.48	27,976.21
1009	275,196.96	2,336,584.76	122.85	27,991.17
1010	275,207.83	2,336,579.81	102.41	28,003.12
1011	275,220.14	2,336,579.73	99.32	28,015.43
1012	275,238.79	2,336,573.56	99.30	28,035.07
1013	275,261.96	2,336,573.44	81.01	28,058.24
1014	275,283.63	2,336,580.60	38.26	28,081.07
1015	275,284.86	2,336,595.27	349.91	28,095.79
1016	275,277.69	2,336,610.67	316.94	28,112.78
1017	275,261.82	2,336,619.42	306.06	28,130.90
1018	275,239.12	2,336,640.78	315.75	28,162.07
1019	275,210.07	2,336,673.30	308.08	28,205.67
1020	275,180.16	2,336,689.16	305.23	28,239.53
1021	275,156.31	2,336,711.03	320.10	28,271.90
1022	275,147.60	2,336,724.80	346.13	28,288.18
1023	275,148.92	2,336,741.32	16.35	28,304.76
1024	275,160.82	2,336,763.58	1.23	28,330.00
1025	275,141.30	2,336,804.21	324.06	28,375.07
1026	275,110.10	2,336,834.10	314.28	28,418.28
1027	275,086.78	2,336,857.24	332.43	28,451.14
1028	275,081.35	2,336,888.28	358.14	28,482.64
1029	275,082.78	2,336,901.39	356.25	28,495.83
1030	275,074.61	2,336,934.94	338.12	28,530.36
1031	275,056.96	2,336,965.42	338.65	28,565.58
1032	275,047.57	2,337,007.33	356.13	28,608.53
1033	275,052.36	2,337,063.38	5.18	28,664.78
1034	275,058.13	2,337,123.45	0.30	28,725.12
1035	275,055.48	2,337,154.50	350.69	28,756.30
1036	275,045.80	2,337,194.06	1.63	28,797.01
1037	275,061.80	2,337,246.33	13.92	28,851.68
1038	275,069.04	2,337,284.17	28.46	28,890.20
1039	275,094.89	2,337,309.06	56.83	28,926.09

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
1040	275,118.03	2,337,318.61	65.94	28,951.13
1041	275,141.78	2,337,330.04	54.14	28,977.49
1042	275,160.41	2,337,349.35	44.87	29,004.31
1043	275,186.43	2,337,374.67	68.30	29,040.62
1044	275,213.59	2,337,374.28	107.69	29,067.79
1045	275,240.95	2,337,355.43	132.33	29,101.01
1046	275,259.91	2,337,332.76	130.19	29,130.57
1047	275,280.85	2,337,320.53	105.25	29,154.82
1048	275,297.96	2,337,320.47	64.01	29,171.93
1049	275,318.27	2,337,346.65	40.96	29,205.06
1050	275,340.22	2,337,369.28	47.31	29,236.59
1051	275,371.42	2,337,395.01	54.36	29,277.03
1052	275,398.07	2,337,411.52	66.66	29,308.38
1053	275,431.58	2,337,420.44	100.73	29,343.05
1054	275,455.00	2,337,403.18	137.13	29,372.15
1055	275,471.58	2,337,376.78	166.71	29,403.32
1056	275,468.89	2,337,349.16	188.16	29,431.08
1057	275,462.89	2,337,317.63	198.79	29,463.17
1058	275,449.88	2,337,291.87	196.61	29,492.03
1059	275,446.25	2,337,259.62	158.32	29,524.48
1060	275,465.12	2,337,243.67	99.28	29,549.19
1061	275,485.15	2,337,251.62	97.90	29,570.74
1062	275,504.86	2,337,236.52	137.69	29,595.57
1063	275,516.58	2,337,217.83	112.47	29,617.63
1064	275,539.88	2,337,223.20	49.98	29,641.55
1065	275,562.14	2,337,275.83	26.65	29,698.69
1066	275,580.18	2,337,306.60	48.73	29,734.36
1067	275,624.22	2,337,325.22	88.41	29,782.17
1068	275,664.64	2,337,310.72	113.26	29,825.12
1069	275,700.44	2,337,292.65	97.44	29,865.22
1070	275,731.79	2,337,299.26	73.20	29,897.26
1071	275,758.34	2,337,309.82	91.58	29,925.84
1072	275,790.47	2,337,294.93	97.79	29,961.25
1073	275,819.20	2,337,299.63	68.73	29,990.36
1074	275,859.77	2,337,326.24	40.10	30,038.87
1075	275,873.11	2,337,356.98	18.44	30,072.39
1076	275,883.17	2,337,399.15	15.36	30,115.74
1077	275,898.36	2,337,447.88	27.33	30,166.78
1078	275,926.04	2,337,484.14	34.60	30,212.40
1079	275,948.13	2,337,519.70	73.58	30,254.27
1080	275,976.40	2,337,506.34	127.02	30,285.53
1081	276,007.00	2,337,471.45	145.40	30,331.94
1082	276,032.51	2,337,423.37	93.36	30,386.36
1083	276,044.46	2,337,440.65	21.38	30,407.37
1084	276,050.15	2,337,480.68	8.04	30,447.81
1085	276,056.18	2,337,523.64	6.41	30,491.18
1086	276,060.74	2,337,577.55	9.65	30,545.28
1087	276,067.04	2,337,601.98	34.20	30,570.52
1088	276,097.38	2,337,624.09	57.62	30,608.05
1089	276,153.55	2,337,654.81	59.43	30,672.08
1090	276,192.91	2,337,679.86	74.10	30,718.74
1091	276,217.04	2,337,679.58	96.34	30,742.86

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
1092	276,252.55	2,337,672.03	113.54	30,779.16
1093	276,275.70	2,337,655.77	126.56	30,807.45
1094	276,307.23	2,337,631.10	138.77	30,847.49
1095	276,323.04	2,337,604.27	134.54	30,878.63
1096	276,352.68	2,337,587.44	103.24	30,912.72
1097	276,376.98	2,337,588.76	45.36	30,937.05
1098	276,378.54	2,337,612.18	358.73	30,960.52
1099	276,372.18	2,337,669.28	342.37	31,017.98
1100	276,342.43	2,337,723.16	333.30	31,079.53
1101	276,322.82	2,337,766.19	341.64	31,126.81
1102	276,314.13	2,337,806.27	345.35	31,167.82
1103	276,307.00	2,337,829.51	318.76	31,192.14
1104	276,279.05	2,337,842.30	303.87	31,222.88
1105	276,245.83	2,337,873.44	324.81	31,268.41
1106	276,233.44	2,337,901.89	318.07	31,299.44
1107	276,209.24	2,337,915.68	295.35	31,327.29
1108	276,167.24	2,337,931.82	289.55	31,372.28
1109	276,100.57	2,337,953.59	295.27	31,442.42
1110	276,069.53	2,337,973.32	281.10	31,479.20
1111	276,047.66	2,337,969.37	244.65	31,501.42
1112	276,027.95	2,337,952.55	203.16	31,527.34
1113	276,029.76	2,337,920.31	183.20	31,559.64
1114	276,025.11	2,337,892.91	210.65	31,587.43
1115	276,007.40	2,337,878.90	245.88	31,610.01
1116	275,965.71	2,337,871.61	267.71	31,652.33
1117	275,930.47	2,337,874.90	277.27	31,687.72
1118	275,872.04	2,337,884.36	292.81	31,746.91
1119	275,818.05	2,337,924.19	317.52	31,814.00
1120	275,795.35	2,337,961.42	337.14	31,857.61
1121	275,786.55	2,337,995.80	357.98	31,893.10
1122	275,794.52	2,338,039.54	20.67	31,937.56
1123	275,835.13	2,338,107.07	17.02	32,016.36
1124	275,835.98	2,338,123.10	351.03	32,032.42
1125	275,825.85	2,338,149.56	336.39	32,060.74
1126	275,807.72	2,338,186.26	335.51	32,101.68
1127	275,795.06	2,338,216.53	342.15	32,134.49
1128	275,777.13	2,338,294.26	358.65	32,214.26
1129	275,785.93	2,338,342.74	13.21	32,263.54
1130	275,792.26	2,338,364.63	17.41	32,286.32
1131	275,806.69	2,338,407.29	3.80	32,331.35
1132	275,801.23	2,338,435.16	332.54	32,359.75
1133	275,783.77	2,338,453.34	312.37	32,384.95
1134	275,744.15	2,338,484.95	312.58	32,435.64
1135	275,726.08	2,338,504.04	333.25	32,461.93
1136	275,718.96	2,338,544.05	350.74	32,502.57
1137	275,706.88	2,338,625.54	7.18	32,584.95
1138	275,720.49	2,338,657.93	31.72	32,620.08
1139	275,744.99	2,338,686.47	48.40	32,657.70
1140	275,775.87	2,338,707.19	55.47	32,694.89
1141	275,801.32	2,338,725.14	42.65	32,726.03
1142	275,832.77	2,338,778.53	20.26	32,787.99
1143	275,838.75	2,338,812.35	1.41	32,822.34

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
1144	275,834.05	2,338,849.53	358.05	32,859.82
1145	275,839.54	2,338,944.83	17.17	32,955.27
1146	275,867.02	2,338,990.49	26.12	33,008.56
1147	275,896.61	2,339,066.77	27.03	33,090.39
1148	275,919.30	2,339,101.90	33.29	33,132.20
1149	275,976.50	2,339,187.57	28.07	33,235.21
1150	276,010.50	2,339,270.05	26.65	33,324.43
1151	276,057.97	2,339,349.40	48.46	33,416.89
1152	276,129.07	2,339,381.00	66.58	33,494.69
1153	276,227.70	2,339,422.60	66.40	33,601.74
1154	276,306.79	2,339,458.37	69.84	33,688.54
1155	276,367.67	2,339,475.82	56.10	33,751.88
1156	276,415.58	2,339,536.74	35.69	33,829.38
1157	276,460.18	2,339,604.88	23.57	33,910.82
1158	276,476.83	2,339,671.93	32.78	33,979.90
1159	276,525.38	2,339,710.41	39.87	34,041.86
1160	276,555.31	2,339,766.36	20.01	34,105.30
1161	276,571.81	2,339,844.82	16.23	34,185.49
1162	276,658.95	2,340,076.96	32.07	34,433.44
1163	276,684.03	2,340,103.32	60.28	34,469.82
1164	276,724.39	2,340,112.64	79.48	34,511.24
1165	276,788.00	2,340,121.61	70.87	34,575.49
1166	276,822.12	2,340,141.50	49.30	34,614.98
1167	276,934.69	2,340,281.29	43.58	34,794.46
1168	277,012.10	2,340,350.20	48.92	34,898.10
1169	277,155.60	2,340,472.69	53.21	35,086.77
1170	277,377.59	2,340,617.39	56.56	35,351.75
1171	277,577.33	2,340,750.99	62.10	35,592.05
1172	278,197.57	2,341,001.75	66.58	36,261.06
1173	278,344.39	2,341,069.65	76.17	36,422.83
1174	278,378.63	2,341,071.35	90.72	36,457.11
1175	278,450.53	2,341,065.97	94.37	36,529.21
1176	278,823.50	2,341,036.88	91.16	36,903.31
1177	278,881.15	2,341,039.04	80.08	36,961.00
1178	278,950.50	2,341,061.16	72.33	37,033.80
1179	278,993.81	2,341,074.94	66.88	37,079.25
1180	279,047.18	2,341,104.03	64.20	37,140.03
1181	279,115.93	2,341,133.22	73.74	37,214.72
1182	279,209.35	2,341,148.89	79.74	37,309.45
1183	279,359.63	2,341,178.08	85.14	37,462.54
1184	279,404.57	2,341,177.08	80.55	37,507.48
1185	279,471.15	2,341,201.55	77.20	37,578.42
1186	279,532.38	2,341,207.36	76.05	37,639.93
1187	279,577.26	2,341,225.93	59.52	37,688.49
1188	279,691.46	2,341,316.69	37.86	37,834.37
1189	279,734.74	2,341,413.04	30.64	37,939.99
1190	279,800.18	2,341,499.58	41.82	38,048.49
1191	279,924.29	2,341,617.15	51.21	38,219.45
1192	280,071.70	2,341,717.05	60.27	38,397.52
1193	280,390.48	2,341,868.00	55.26	38,750.24
1194	280,440.23	2,341,916.29	28.30	38,819.57
1195	280,450.71	2,341,971.48	13.52	38,875.74

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
1196	280,493.26	2,342,117.12	30.54	39,027.47
1197	280,561.31	2,342,185.67	47.66	39,124.07
1198	280,637.63	2,342,248.52	56.24	39,222.93
1199	280,741.59	2,342,303.90	66.08	39,340.72
1200	281,072.65	2,342,423.01	62.82	39,692.56
1201	281,272.46	2,342,560.70	58.19	39,935.22
1202	281,384.42	2,342,622.91	69.69	40,063.29
1203	281,553.22	2,342,657.45	76.73	40,235.59
1204	281,698.45	2,342,696.32	77.47	40,385.93
1205	281,927.66	2,342,737.03	80.26	40,618.73
1206	282,277.28	2,342,795.01	81.92	40,973.13
1207	282,456.84	2,342,816.24	75.82	41,153.93
1208	282,555.01	2,342,855.16	64.21	41,259.54
1209	282,764.70	2,342,976.04	61.45	41,501.58
1210	283,085.85	2,343,140.64	65.93	41,862.45
1211	283,321.37	2,343,231.06	67.97	42,114.73
1212	283,614.67	2,343,355.86	66.71	42,433.48
1213	283,744.61	2,343,412.42	51.46	42,575.20
1214	283,871.09	2,343,583.66	38.90	42,788.08
1215	284,101.84	2,343,845.80	43.79	43,137.32
1216	284,212.18	2,343,951.53	52.04	43,290.13
1217	284,327.47	2,344,023.99	69.62	43,426.30
1218	284,424.82	2,344,038.75	88.95	43,524.76
1219	284,509.64	2,344,029.06	108.44	43,610.14
1220	284,596.80	2,343,978.00	122.45	43,711.15
1221	285,098.62	2,343,632.49	126.52	44,320.41
1222	285,167.06	2,343,578.07	134.69	44,407.85
1223	285,379.67	2,343,316.54	139.45	44,744.90
1224	285,418.87	2,343,272.98	126.51	44,803.50
1225	285,499.40	2,343,235.40	108.73	44,892.37
1226	285,566.61	2,343,220.56	101.08	44,961.19
1227	285,735.89	2,343,191.59	99.55	45,132.94
1228	286,407.57	2,343,080.58	99.48	45,813.73
1229	289,193.00	2,342,610.55	97.84	48,638.54
1230	289,339.25	2,342,594.90	97.49	48,785.63
1231	289,410.06	2,342,583.84	100.72	48,857.29
1232	289,465.75	2,342,571.43	101.00	48,914.34
1233	289,506.60	2,342,564.65	96.98	48,955.76
1234	289,617.61	2,342,555.85	96.26	49,067.11
1235	289,706.91	2,342,543.32	101.59	49,157.29
1236	289,832.83	2,342,509.11	104.26	49,287.78
1237	290,048.23	2,342,458.08	101.02	49,509.14
1238	291,633.50	2,342,215.23	96.93	51,112.90
1239	292,434.98	2,342,142.93	95.43	51,917.63
1240	292,639.16	2,342,122.50	98.37	52,122.84
1241	292,717.41	2,342,107.27	107.29	52,202.55
1242	292,781.16	2,342,079.46	116.51	52,272.10
1243	292,894.30	2,342,015.56	123.75	52,402.04
1244	293,032.37	2,341,907.49	130.58	52,577.37
1245	293,146.61	2,341,800.52	128.56	52,733.88
1246	293,210.77	2,341,757.24	116.17	52,811.27
1247	293,291.91	2,341,730.36	103.77	52,896.75

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
1248	293,378.41	2,341,716.32	99.87	52,984.38
1249	293,453.26	2,341,702.43	101.56	53,060.51
1250	293,535.43	2,341,684.04	101.68	53,144.71
1251	293,674.95	2,341,657.58	110.22	53,286.72
1252	293,715.10	2,341,634.68	118.63	53,332.94
1253	293,776.95	2,341,602.39	112.61	53,402.71
1254	293,820.69	2,341,588.48	103.27	53,448.61
1255	293,877.33	2,341,579.61	98.18	53,505.94
1256	293,916.16	2,341,574.52	104.99	53,545.10
1257	293,962.41	2,341,555.34	119.51	53,595.18
1258	293,992.54	2,341,533.06	131.06	53,632.64
1259	294,014.86	2,341,510.25	115.79	53,664.56
1260	294,086.76	2,341,502.75	95.01	53,736.85
1261	294,159.07	2,341,497.60	95.14	53,809.35
1262	294,240.34	2,341,488.75	95.54	53,891.09
1263	294,299.53	2,341,483.71	92.79	53,950.50
1264	294,350.90	2,341,483.06	89.45	54,001.87
1265	294,408.77	2,341,484.89	81.15	54,059.77
1266	294,481.57	2,341,505.61	77.96	54,135.46
1267	294,522.04	2,341,511.44	91.46	54,176.35
1268	294,571.74	2,341,501.68	99.58	54,227.00
1269	294,617.71	2,341,495.19	99.00	54,273.43
1270	294,684.41	2,341,483.46	100.99	54,341.15
1271	294,734.88	2,341,472.73	112.49	54,392.75
1272	294,782.39	2,341,441.91	125.86	54,449.38
1273	294,815.37	2,341,415.44	129.07	54,491.66
1274	294,872.53	2,341,368.50	131.21	54,565.63
1275	294,936.59	2,341,308.68	132.84	54,653.28
1276	294,965.45	2,341,282.11	145.30	54,692.50
1277	294,990.38	2,341,220.50	168.82	54,758.97
1278	294,990.88	2,341,134.83	175.06	54,844.64
1279	294,997.00	2,341,098.50	135.68	54,881.48
1280	295,022.77	2,341,093.53	110.54	54,907.73
1281	295,037.90	2,341,084.73	139.39	54,925.24
1282	295,051.49	2,341,050.03	163.86	54,962.50
1283	295,082.11	2,340,891.08	147.50	55,124.38
1284	295,123.16	2,340,861.36	124.18	55,175.05
1285	295,161.58	2,340,836.93	113.80	55,220.58
1286	295,231.16	2,340,818.11	109.13	55,292.66
1287	295,306.04	2,340,786.12	109.35	55,374.09
1288	295,391.59	2,340,762.29	105.54	55,462.90
1289	295,514.10	2,340,728.31	103.23	55,590.04
1290	295,611.24	2,340,709.49	104.83	55,688.98
1291	295,665.52	2,340,691.13	103.66	55,746.28
1292	295,928.35	2,340,651.21	98.15	56,012.13
1293	296,119.63	2,340,625.48	100.80	56,205.13
1294	296,351.08	2,340,568.03	102.31	56,443.60
1295	296,721.28	2,340,498.15	98.82	56,820.34
1296	296,858.81	2,340,481.36	88.93	56,958.89
1297	296,956.54	2,340,497.02	90.10	57,057.87
1298	297,031.53	2,340,484.75	119.66	57,133.85
1299	297,070.77	2,340,437.93	120.91	57,194.94

16 Gto-DH ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
1300	297,268.34	2,340,396.67	91.31	57,396.77
1301	297,357.59	2,340,411.09	103.34	57,487.18
1302	297,425.76	2,340,361.81	121.62	57,571.30
1303	297,449.94	2,340,349.29	101.97	57,598.52
1304	297,523.29	2,340,353.71	83.19	57,672.01
1305	298,047.64	2,340,447.83	87.56	58,204.74
1306	298,142.33	2,340,439.05	102.92	58,299.84
1307	298,195.37	2,340,419.17	108.45	58,356.48
1308	298,259.09	2,340,400.48	60.78	58,422.88
1309	298,267.04	2,340,429.72	15.21	58,453.19