

09 SLP-SDU ruta puntos X Y

Vértice	X	Y	Angulo	Distancia Acumulada (m)
0	341,804.32	2,356,398.21	310.80	0.00
1	341,416.09	2,356,733.38	307.10	512.89
2	341,402.56	2,356,742.30	304.52	529.10
3	340,778.39	2,357,189.96	309.14	1,297.20
4	340,581.47	2,357,371.30	309.41	1,564.90
5	340,573.95	2,357,376.79	310.48	1,574.22
6	340,564.59	2,357,386.07	330.42	1,587.39
7	340,561.70	2,357,397.73	352.56	1,599.40
8	340,560.86	2,357,449.99	355.57	1,651.67
9	340,559.41	2,357,460.42	345.33	1,662.20
10	340,555.36	2,357,470.75	332.28	1,673.30
11	340,425.27	2,357,663.23	327.79	1,905.61
12	340,388.62	2,357,725.77	327.59	1,978.10
13	340,348.08	2,357,784.86	325.69	2,049.76
14	340,205.86	2,357,994.42	324.00	2,303.02
15	340,189.57	2,358,015.40	313.03	2,329.58
16	340,170.51	2,358,028.21	299.89	2,352.55
17	340,029.76	2,358,096.55	292.95	2,509.01
18	339,972.04	2,358,117.56	295.92	2,570.44
19	339,886.67	2,358,170.58	299.83	2,670.94
20	339,676.11	2,358,281.70	302.55	2,909.02
21	339,567.31	2,358,364.50	310.51	3,045.74
22	339,550.36	2,358,380.72	310.46	3,069.20
23	339,534.26	2,358,392.93	300.68	3,089.40
24	339,380.03	2,358,462.25	299.23	3,258.50
25	339,345.79	2,358,485.58	303.59	3,299.93
26	339,298.76	2,358,516.02	302.28	3,355.95
27	339,148.44	2,358,608.68	308.32	3,532.54
28	339,104.47	2,358,652.64	312.86	3,594.71
29	339,043.23	2,358,705.35	309.00	3,675.51
30	338,939.65	2,358,784.20	304.19	3,805.69
31	338,827.04	2,358,852.14	303.69	3,937.20
32	338,750.98	2,358,907.96	304.21	4,031.55
33	338,098.93	2,359,317.90	301.16	4,801.76
34	337,808.52	2,359,486.62	298.96	5,137.62
35	337,539.50	2,359,628.24	298.46	5,441.64
36	330,027.70	2,363,818.27	306.08	14,043.01
37	330,009.34	2,363,835.39	305.77	14,068.12
38	329,966.21	2,363,858.84	295.31	14,117.21
39	329,911.93	2,363,880.86	292.56	14,175.78
40	329,872.54	2,363,897.61	299.42	14,218.59
41	329,784.19	2,363,961.31	302.48	14,327.50
42	329,569.64	2,364,081.03	299.46	14,573.19
43	329,424.96	2,364,163.77	297.94	14,739.86
44	329,396.09	2,364,177.93	295.54	14,772.02
45	329,364.05	2,364,192.84	292.87	14,807.36
46	327,168.16	2,365,026.17	288.31	17,156.06
47	327,148.56	2,365,031.74	280.98	17,176.43
48	327,072.06	2,365,039.93	272.90	17,253.37
49	326,748.02	2,365,038.11	258.45	17,577.41
50	326,739.79	2,365,034.65	247.29	17,586.34

51	326,723.27	2,365,027.76	259.26	17,604.24
52	326,713.48	2,365,027.96	284.22	17,614.03
53	326,686.70	2,365,041.77	302.87	17,644.16
54	326,680.08	2,365,047.03	305.26	17,652.61
55	326,645.73	2,365,068.54	292.55	17,693.15
56	326,624.02	2,365,073.57	279.53	17,715.43
57	326,556.04	2,365,080.75	285.04	17,783.79
58	326,543.67	2,365,086.27	312.45	17,797.34
59	326,533.85	2,365,103.87	346.16	17,817.49
60	326,534.37	2,365,124.06	7.89	17,837.69
61	326,540.83	2,365,149.40	351.24	17,863.84
62	326,533.53	2,365,161.16	330.63	17,877.69
63	326,527.01	2,365,173.99	339.31	17,892.07
64	326,524.41	2,365,184.08	358.70	17,902.49
65	326,526.03	2,365,191.79	353.89	17,910.36
66	326,523.17	2,365,198.19	318.37	17,917.38
67	326,517.93	2,365,201.32	293.70	17,923.48
68	326,504.86	2,365,205.20	302.23	17,937.12
69	326,497.79	2,365,213.02	311.55	17,947.66
70	326,461.41	2,365,238.69	311.90	17,992.18
71	326,455.18	2,365,245.75	323.78	18,001.59
72	326,452.15	2,365,250.80	320.24	18,007.49
73	326,447.15	2,365,255.22	301.55	18,014.16
74	326,439.49	2,365,258.25	288.97	18,022.40
75	326,416.64	2,365,264.95	287.31	18,046.21
76	326,382.33	2,365,276.28	278.49	18,082.34
77	326,372.03	2,365,276.05	264.68	18,092.65
78	326,359.28	2,365,273.95	255.00	18,105.57
79	326,339.29	2,365,266.42	254.32	18,126.93
80	326,295.53	2,365,258.13	262.96	18,171.46
81	326,277.22	2,365,257.06	265.79	18,189.81
82	326,238.82	2,365,253.65	269.33	18,228.36
83	326,227.41	2,365,254.40	276.18	18,239.79
84	326,209.65	2,365,257.09	282.65	18,257.75
85	326,197.87	2,365,260.62	278.87	18,270.05
86	326,191.15	2,365,260.75	267.15	18,276.77
87	326,165.09	2,365,257.65	266.06	18,303.01
88	326,135.30	2,365,257.07	273.04	18,332.81
89	326,121.51	2,365,258.81	281.78	18,346.71
90	326,104.76	2,365,263.74	284.39	18,364.17
91	326,084.97	2,365,268.09	286.91	18,384.43
92	326,074.14	2,365,272.34	285.07	18,396.07
93	326,060.72	2,365,274.39	274.20	18,409.64
94	326,050.80	2,365,274.34	264.86	18,419.56
95	326,032.05	2,365,271.04	262.32	18,438.60
96	325,965.44	2,365,264.76	266.63	18,505.51
97	325,940.51	2,365,264.17	277.23	18,530.45
98	325,921.42	2,365,269.58	284.65	18,550.28
99	325,895.15	2,365,275.87	279.72	18,577.29
100	325,825.70	2,365,283.13	283.60	18,647.13
101	325,818.31	2,365,286.00	300.01	18,655.05
102	325,805.37	2,365,296.40	292.62	18,671.65
103	325,793.54	2,365,297.73	303.62	18,683.56
104	325,655.12	2,365,545.36	331.84	18,967.25
105	325,654.65	2,365,546.28	347.02	18,968.28

106	325,655.12	2,365,569.21	329.43	18,991.22
107	325,496.80	2,365,652.29	294.58	19,170.01
108	325,472.02	2,365,662.04	300.80	19,196.64
109	325,399.88	2,365,722.81	291.53	19,290.96
110	325,359.31	2,365,724.90	274.55	19,331.58
111	325,291.47	2,365,732.22	285.89	19,399.82
112	322,420.35	2,367,109.63	296.62	22,584.25
113	322,390.98	2,367,124.99	296.67	22,617.39
114	322,231.44	2,367,201.89	296.42	22,794.49
115	322,214.78	2,367,210.42	307.46	22,813.22
116	322,199.16	2,367,227.65	321.27	22,836.48
117	322,036.12	2,367,458.26	316.38	23,118.90
118	322,021.27	2,367,469.87	305.09	23,137.74
119	319,679.74	2,368,941.71	303.96	25,903.44
120	319,664.86	2,368,952.43	320.12	25,921.78
121	319,654.27	2,368,974.60	322.44	25,946.34
122	319,592.88	2,369,026.85	305.55	26,026.97
123	319,544.04	2,369,055.85	292.05	26,083.76
124	319,532.35	2,369,058.63	280.55	26,095.78
125	319,519.83	2,369,060.32	271.22	26,108.42
126	319,511.19	2,369,059.53	264.75	26,117.09
127	319,508.00	2,369,059.24	265.46	26,120.30
128	319,495.23	2,369,058.38	283.93	26,133.09
129	319,207.20	2,369,236.16	289.14	26,471.57
130	319,192.99	2,369,237.80	272.90	26,485.88
131	319,177.93	2,369,237.60	285.45	26,500.93
132	318,130.32	2,369,884.34	308.86	27,732.10
133	318,122.31	2,369,892.64	322.36	27,743.64
134	318,117.87	2,369,899.93	337.32	27,752.17
135	318,115.09	2,369,911.04	349.90	27,763.62
136	318,112.03	2,369,939.49	352.16	27,792.23
137	318,111.10	2,369,945.02	346.19	27,797.85
138	318,109.30	2,369,950.55	324.13	27,803.66
139	318,099.07	2,369,958.07	302.48	27,816.35
140	318,076.69	2,369,970.29	300.70	27,841.86
141	317,340.56	2,370,444.05	307.03	28,717.26
142	317,322.80	2,370,459.65	316.09	28,740.90
143	317,304.21	2,370,482.51	325.26	28,770.36
144	317,293.17	2,370,501.36	291.77	28,792.21
145	317,280.06	2,370,497.57	252.77	28,805.85
146	317,255.36	2,370,489.38	262.07	28,831.88
147	317,233.03	2,370,490.35	291.33	28,854.22
148	316,989.54	2,370,695.85	304.27	29,172.84
149	316,947.99	2,370,718.29	294.84	29,220.07
150	316,233.95	2,370,996.89	292.28	29,986.53
151	315,192.99	2,371,443.91	292.87	31,119.42
152	315,159.51	2,371,457.78	293.33	31,155.65
153	315,062.93	2,371,501.11	294.90	31,261.51
154	315,002.39	2,371,530.17	297.54	31,328.66
155	314,818.86	2,371,633.79	298.63	31,539.43
156	314,783.89	2,371,652.24	295.57	31,578.96
157	314,617.88	2,371,723.87	292.11	31,759.77
158	314,523.70	2,371,759.80	289.46	31,860.57
159	314,501.11	2,371,767.16	287.18	31,884.33
160	314,482.25	2,371,772.68	284.44	31,903.98

161	314,457.02	2,371,778.30	279.94	31,929.83
162	314,203.49	2,371,810.87	274.94	32,185.44
163	314,128.07	2,371,814.24	272.74	32,260.93
164	314,060.56	2,371,817.69	275.54	32,328.53
165	313,849.12	2,371,848.01	278.84	32,542.13
166	313,827.63	2,371,851.61	282.26	32,563.92
167	313,801.39	2,371,858.65	287.28	32,591.09
168	313,781.37	2,371,865.76	291.71	32,612.33
169	313,757.57	2,371,876.29	295.71	32,638.36
170	313,465.97	2,372,028.51	298.24	32,967.30
171	313,423.15	2,372,052.16	302.15	33,016.22
172	313,382.02	2,372,081.37	309.09	33,066.67
173	313,346.68	2,372,114.09	312.66	33,114.83
174	313,000.03	2,372,431.95	307.39	33,585.15
175	312,985.09	2,372,441.38	299.70	33,602.81
176	312,959.74	2,372,454.38	294.29	33,631.31
177	312,934.60	2,372,464.24	285.95	33,658.31
178	312,912.43	2,372,468.34	278.84	33,680.86
179	312,896.35	2,372,470.38	273.05	33,697.06
180	312,062.70	2,372,454.50	270.94	34,530.87
181	312,007.83	2,372,457.34	276.83	34,585.81
182	311,980.75	2,372,462.45	279.76	34,613.36
183	311,940.78	2,372,468.66	282.53	34,653.82
184	311,877.48	2,372,487.08	288.31	34,719.74
185	309,886.85	2,373,226.89	290.92	36,843.40
186	309,856.92	2,373,238.65	292.93	36,875.55
187	309,855.08	2,373,239.48	288.93	36,877.57
188	309,810.95	2,373,250.04	288.64	36,922.95
189	309,771.43	2,373,267.49	293.34	36,966.15
190	309,714.86	2,373,291.33	292.26	37,027.54
191	309,378.26	2,373,425.16	288.84	37,389.77
192	309,340.06	2,373,436.11	281.52	37,429.51
193	309,210.57	2,373,452.11	275.82	37,559.99
194	309,070.43	2,373,463.35	275.52	37,700.58
195	308,928.58	2,373,479.39	276.43	37,843.33
196	308,807.33	2,373,493.02	276.05	37,965.34
197	308,761.13	2,373,497.62	301.42	38,011.77
198	308,743.09	2,373,525.56	301.63	38,045.03
199	308,601.78	2,373,540.71	244.25	38,187.14
200	308,573.93	2,373,496.77	213.42	38,239.17
201	308,547.27	2,373,457.93	251.79	38,286.28
202	308,466.04	2,373,486.08	257.45	38,372.25
203	308,452.43	2,373,472.84	257.95	38,391.24
204	308,202.45	2,373,564.41	289.89	38,657.46
205	307,389.91	2,373,854.81	286.84	39,520.33
206	307,345.39	2,373,865.92	289.32	39,566.22
207	307,229.12	2,373,919.22	292.75	39,694.12
208	306,986.83	2,374,011.62	290.03	39,953.44
209	306,932.90	2,374,030.39	286.15	40,010.53
210	306,831.48	2,374,054.03	282.95	40,114.67
211	306,662.43	2,374,092.34	284.88	40,288.01
212	306,578.84	2,374,117.88	290.77	40,375.42
213	306,510.33	2,374,149.18	297.42	40,450.74
214	306,443.64	2,374,188.13	310.63	40,527.96
215	306,407.90	2,374,232.21	316.01	40,584.72

216	306,388.75	2,374,248.89	311.06	40,610.11
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