

**03 SF-DH ruta puntos X Y**

<b>Vértice</b>	<b>X</b>	<b>Y</b>	<b>Angulo</b>	<b>Distancia Acumulada (m)</b>
0	270,495.10	2,375,771.84	148.45	0.00
1	270,526.86	2,375,720.09	147.99	60.72
2	270,593.18	2,375,615.89	145.15	184.23
3	270,840.03	2,375,290.96	146.07	592.30
4	270,895.76	2,375,196.86	144.38	701.66
5	271,296.68	2,374,729.16	148.75	1,317.68
6	271,470.53	2,374,296.48	160.28	1,783.98
7	271,752.33	2,373,405.76	160.18	2,718.21
8	272,308.20	2,372,035.79	163.26	4,196.66
9	272,341.91	2,371,868.69	162.94	4,367.13
10	272,782.47	2,370,815.86	161.45	5,508.42
11	272,800.22	2,370,746.69	164.81	5,579.83
12	272,808.96	2,370,716.16	185.32	5,611.59
13	272,773.72	2,370,645.85	187.48	5,690.23
14	272,785.04	2,370,591.05	161.36	5,746.19
15	272,811.56	2,370,535.70	145.23	5,807.56
16	272,858.22	2,370,487.27	128.17	5,874.81
17	273,043.34	2,370,379.22	129.20	6,089.16
18	273,121.76	2,370,291.70	143.45	6,206.67
19	275,839.13	2,365,809.71	147.07	11,448.08
20	276,287.23	2,365,160.74	143.04	12,236.72
21	276,788.07	2,364,548.75	139.76	13,027.53
22	277,440.16	2,363,803.35	138.29	14,017.90
23	278,141.41	2,363,030.93	153.83	15,061.16
24	278,317.34	2,362,043.34	167.44	16,064.29
25	278,325.92	2,362,011.35	155.90	16,097.42
26	278,353.48	2,361,969.22	138.98	16,147.76
27	278,382.04	2,361,944.27	138.94	16,185.68
28	278,397.46	2,361,920.77	166.18	16,213.79
29	278,395.60	2,361,901.97	188.34	16,232.68
30	278,382.18	2,361,833.21	190.10	16,302.73
31	278,376.23	2,361,796.28	164.62	16,340.15
32	278,404.68	2,361,762.25	138.85	16,384.49
33	278,424.34	2,361,740.72	149.79	16,413.65
34	278,434.93	2,361,708.15	162.00	16,447.90
35	278,439.50	2,361,694.06	166.38	16,462.72
36	278,445.43	2,361,657.67	169.13	16,499.59
37	278,512.36	2,361,355.48	162.92	16,809.10
38	278,515.94	2,361,346.47	142.28	16,818.80
39	279,559.40	2,360,581.77	132.32	18,112.47
40	279,566.79	2,360,573.45	150.04	18,123.59
41	279,573.02	2,360,554.63	163.45	18,143.41
42	279,579.64	2,360,529.51	163.82	18,169.39
43	279,591.07	2,360,493.45	159.17	18,207.21
44	279,757.10	2,360,121.77	153.50	18,614.29
45	279,782.83	2,360,075.21	145.85	18,667.50
46	279,808.16	2,360,044.33	144.93	18,707.43
47	279,821.10	2,360,022.60	171.05	18,732.73
48	279,817.42	2,360,006.48	199.66	18,749.27
49	279,806.39	2,359,984.30	193.56	18,774.03
50	279,805.79	2,359,932.84	168.78	18,825.50

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<b>Vértice</b>	<b>X</b>	<b>Y</b>	<b>Angulo</b>	<b>Distancia Acumulada (m)</b>
51	279,937.21	2,359,624.91	159.03	19,160.30
52	279,950.46	2,359,586.06	167.61	19,201.35
53	279,965.17	2,359,445.12	177.35	19,343.05
54	279,964.66	2,359,400.82	176.41	19,387.35
55	279,972.47	2,359,344.04	179.48	19,444.67
56	279,970.18	2,359,324.86	201.11	19,463.99
57	279,954.04	2,359,302.15	196.89	19,491.85
58	279,954.31	2,359,292.46	140.86	19,501.55
59	280,035.26	2,359,273.23	103.14	19,584.75
60	280,099.37	2,359,258.54	101.61	19,650.52
61	280,149.47	2,359,249.42	90.37	19,701.44
62	280,246.04	2,359,265.71	83.56	19,799.38
63	280,268.21	2,359,267.00	101.20	19,821.59
64	280,302.50	2,359,250.49	122.54	19,859.64
65	280,320.03	2,359,236.10	147.33	19,882.32
66	280,325.76	2,359,214.31	166.16	19,904.85
67	280,414.50	2,358,828.81	166.25	20,300.44
68	280,426.52	2,358,782.47	166.60	20,348.31
69	280,520.60	2,358,349.84	167.37	20,791.05
70	280,552.14	2,358,213.19	163.09	20,931.29
71	280,569.53	2,358,167.45	156.47	20,980.23
72	280,598.61	2,358,108.45	150.73	21,046.01
73	280,777.58	2,357,825.35	148.35	21,380.93
74	280,842.23	2,357,717.76	150.99	21,506.45
75	280,869.62	2,357,664.04	157.60	21,566.75
76	280,887.66	2,357,607.83	163.59	21,625.78
77	280,898.64	2,357,566.93	170.04	21,668.13
78	280,903.39	2,357,511.35	175.11	21,723.92
79	280,908.45	2,357,452.25	172.01	21,783.24
80	280,958.48	2,357,196.90	168.23	22,043.44
81	280,993.18	2,357,039.70	166.69	22,204.42
82	281,012.03	2,356,965.09	168.04	22,281.38
83	281,041.01	2,356,796.21	129.53	22,452.73
84	281,096.39	2,356,797.37	119.78	22,508.12
85	281,133.80	2,356,730.53	152.73	22,584.72
86	281,187.15	2,356,617.74	141.55	22,709.49
87	281,285.24	2,356,539.93	119.53	22,834.69
88	281,526.24	2,356,449.17	116.99	23,092.22
89	281,778.22	2,356,283.44	139.84	23,393.82
90	281,860.80	2,356,094.97	162.33	23,599.58
91	281,879.28	2,356,005.66	169.26	23,690.78
92	281,897.71	2,355,898.80	172.02	23,799.22
93	281,913.01	2,355,757.33	172.00	23,941.51
94	281,923.47	2,355,696.96	165.90	24,002.79
95	281,949.26	2,355,619.32	159.66	24,084.60
96	281,972.12	2,355,563.58	154.05	24,144.84
97	282,031.33	2,355,459.38	151.73	24,264.69
98	282,090.51	2,355,342.89	161.54	24,395.35
99	282,100.79	2,355,284.48	176.00	24,454.66
100	282,099.24	2,355,239.60	189.23	24,499.57
101	282,080.67	2,355,176.85	203.90	24,565.01

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<b>Vértice</b>	<b>X</b>	<b>Y</b>	<b>Angulo</b>	<b>Distancia Acumulada (m)</b>
102	281,947.07	2,354,957.28	208.96	24,822.03
103	281,891.79	2,354,846.87	203.64	24,945.51
104	281,688.73	2,354,308.95	200.38	25,520.47
105	281,569.44	2,353,982.62	196.79	25,867.93
106	281,553.43	2,353,915.92	190.02	25,936.52
107	281,547.05	2,353,860.28	183.84	25,992.53
108	281,510.90	2,352,048.26	181.21	27,804.90
109	281,507.87	2,351,911.20	176.42	27,942.00
110	281,524.33	2,351,799.97	166.35	28,054.44
111	281,558.52	2,351,700.00	157.31	28,160.10
112	281,577.55	2,351,661.85	150.37	28,202.72
113	281,602.80	2,351,622.60	145.98	28,249.39
114	281,640.30	2,351,569.59	140.87	28,314.33
115	281,684.61	2,351,522.06	132.36	28,379.32
116	281,776.84	2,351,450.75	122.67	28,495.89
117	281,878.51	2,351,397.53	111.69	28,610.65
118	281,944.55	2,351,378.90	103.67	28,679.27
119	283,249.13	2,351,111.56	101.57	30,010.96
120	283,332.70	2,351,094.45	102.94	30,096.26
121	283,410.85	2,351,074.51	105.45	30,176.92
122	290,392.43	2,348,996.67	112.62	37,461.14
123	291,002.54	2,348,663.13	119.70	38,156.47
124	291,169.68	2,348,563.79	121.24	38,350.90
125	291,424.73	2,348,405.90	122.15	38,650.86
126	291,622.58	2,348,279.67	126.30	38,885.56
127	291,913.31	2,348,035.20	127.96	39,265.41
128	292,164.58	2,347,853.51	126.24	39,575.48
129	292,728.26	2,347,434.79	126.77	40,277.67
130	292,886.60	2,347,315.75	131.04	40,475.77
131	293,061.98	2,347,139.47	138.17	40,724.42
132	293,397.08	2,346,722.72	128.37	41,259.19
133	293,532.06	2,346,658.23	120.97	41,408.78
134	293,630.31	2,346,585.78	134.41	41,530.86
135	293,689.68	2,346,508.66	138.62	41,628.18
136	293,998.07	2,346,202.11	128.87	42,063.02
137	294,132.32	2,346,115.25	127.20	42,222.91
138	294,250.89	2,346,010.34	117.56	42,381.23
139	294,541.08	2,345,939.99	114.16	42,679.83
140	294,682.99	2,345,841.78	126.90	42,852.40
141	294,824.06	2,345,727.10	119.55	43,034.22
142	294,960.95	2,345,677.31	120.08	43,179.87
143	295,100.89	2,345,559.13	133.30	43,363.05
144	295,260.61	2,345,391.25	141.20	43,594.76
145	295,354.45	2,345,252.25	140.59	43,762.47
146	295,555.07	2,345,050.22	145.83	44,047.19
147	295,652.09	2,344,827.61	148.28	44,290.03
148	295,793.34	2,344,658.56	159.94	44,510.32
149	295,793.98	2,344,508.54	167.84	44,660.34
150	295,883.15	2,344,309.05	138.39	44,878.85
151	296,112.15	2,344,172.15	130.98	45,145.65
152	296,211.41	2,344,049.23	137.05	45,303.64

**03 SF-DH ruta puntos X Y**

<b>Vértice</b>	<b>X</b>	<b>Y</b>	<b>Angulo</b>	<b>Distancia Acumulada (m)</b>
153	296,373.77	2,343,897.75	148.57	45,525.69
154	296,416.51	2,343,747.45	161.50	45,681.96
155	296,459.82	2,343,635.32	151.49	45,802.15
156	296,538.03	2,343,527.25	149.10	45,935.56
157	296,577.05	2,343,446.91	163.52	46,024.87
158	296,595.15	2,343,300.88	134.81	46,172.03
159	296,699.94	2,343,288.59	95.79	46,277.54
160	296,779.35	2,343,281.79	103.36	46,357.23
161	296,928.63	2,343,221.99	115.96	46,518.05
162	297,117.32	2,343,112.63	116.23	46,736.14
163	297,197.98	2,343,079.44	109.25	46,823.36
164	297,330.08	2,343,041.25	131.10	46,960.87
165	297,376.92	2,342,935.73	154.80	47,076.32
166	297,569.20	2,342,549.41	150.48	47,507.85
167	297,679.11	2,342,377.47	142.84	47,711.91
168	297,898.28	2,342,131.69	137.27	48,041.23
169	298,063.84	2,341,958.71	133.00	48,280.66
170	298,287.17	2,341,773.04	126.63	48,571.09
171	298,337.90	2,341,739.44	129.57	48,631.94
172	298,367.57	2,341,709.12	137.18	48,674.36
173	298,496.25	2,341,562.45	137.81	48,869.48
174	298,546.66	2,341,508.63	137.14	48,943.23
175	298,629.01	2,341,419.07	121.99	49,064.89
176	298,697.20	2,341,398.77	106.58	49,136.03