

Summary of STODAs (2019)														
RUNWAY	Max Grade		1.60%		1.90%		2.20%		2.50%		3.33%		5.00%	
	ID	Grade	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
07	3326	4.33%	854	1390	854	1743	842	1983	9431	2171	9431	2466	-	2619
25	1787	16.64%	2882	796	2053	1939	1787	2457	1787	2479	1787	2514	1787	2552
16L	1001	3.06%	2204	2449	2204	2482	1001	2499	1001	2509	1001	2527	-	2528
16L Div	1001	3.17%	2204	2461	1001	2484	1001	2497	1001	2507	1001	2525	-	2528
16R	1267	2.35%	1267	3954	1267	4000	1267	4035	-	4053	-	4053	-	4053
34L	2968	44.02%	1226	3466	1226	3717	1226	3898	5423	3961	2968	3995	2968	4015
34R	4026	4.22%	2816	1548	2816	2025	418	2292	4509	2389	4026	2479	4026	2500

	Worst STODAs (2019)												Worst Grades (2019)							
	1.60%		1.90%		2.20%		2.50%		3.33%		5.00%		ID	Grade	STODA					
	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)			1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
Runway 07	854	1390	854	1743	842	1983	9431	2171	9431	2466	-	2619	3326	4.33%	1890	2085	2253	2362	2516	2619
	493	1396	493	1752	9431	1992	842	2172	842	2481	-	2619	9431	4.24%	1534	1796	1992	2171	2466	2619
	842	1500	842	1777	854	2003	830	2206	830	2486	-	2619	830	4.11%	1570	1827	2024	2206	2486	2619
	9431	1534	9431	1796	493	2016	2890	2236	2890	2505	-	2619	842	4.07%	1500	1777	1983	2172	2481	2619
	378	1568	830	1827	830	2024	854	2249	3326	2516	-	2619	2890	3.98%	1599	1853	2054	2236	2505	2619
	830	1570	2890	1853	2890	2054	836	2264	836	2527	-	2619	5442	3.90%	1797	2011	2207	2346	2539	2619
	2890	1599	378	1871	836	2080	493	2266	5442	2539	-	2619	836	3.83%	1617	1873	2080	2264	2527	2619
	2941	1607	836	1873	2941	2093	2941	2287	834	2552	-	2619	9430	3.73%	1840	2058	2253	2381	2563	2619
	836	1617	2941	1875	378	2122	834	2311	2941	2556	-	2619	834	3.70%	1676	1922	2135	2311	2552	2619
9510	1647	9510	1907	9510	2130	9510	2315	9430	2563	-	2619	2941	3.64%	1607	1875	2093	2287	2556	2619	
Runway 16L	2204	2449	2204	2482	1001	2499	1001	2509	1001	2527	-	2528	1001	3.06%	2469	2486	2499	2509	2527	2528
	1001	2469	1001	2486	2204	2506	2204	2525	-	2528	-	2528	2204	2.42%	2449	2482	2506	2525	2528	2528
	4378	2488	4372	2518	-	2528	-	2528	-	2528	-	2528	4372	1.91%	2490	2518	2528	2528	2528	2528
	4372	2490	4378	2520	-	2528	-	2528	-	2528	-	2528	4378	1.88%	2488	2520	2528	2528	2528	2528
	4376	2493	4356	2521	-	2528	-	2528	-	2528	-	2528	4376	1.84%	2493	2523	2528	2528	2528	2528
	4370	2504	4352	2521	-	2528	-	2528	-	2528	-	2528	4356	1.83%	2508	2521	2528	2528	2528	2528
	4374	2505	4354	2521	-	2528	-	2528	-	2528	-	2528	4352	1.83%	2508	2521	2528	2528	2528	2528
	4364	2505	4376	2523	-	2528	-	2528	-	2528	-	2528	4354	1.83%	2508	2521	2528	2528	2528	2528
	4366	2505	4358	2524	-	2528	-	2528	-	2528	-	2528	4358	1.78%	2507	2524	2528	2528	2528	2528
4368	2505	4362	2524	-	2528	-	2528	-	2528	-	2528	4362	1.78%	2507	2524	2528	2528	2528	2528	
Runway 16L - Diverging	2204	2461	1001	2484	1001	2497	1001	2507	1001	2525	-	2528	1001	3.17%	2467	2484	2497	2507	2525	2528
	1001	2467	2204	2494	2204	2519	-	2528	-	2528	-	2528	2204	2.21%	2461	2494	2519	2528	2528	2528
	4378	2482	4372	2513	4356	2526	-	2528	-	2528	-	2528	4356	1.98%	2503	2516	2526	2528	2528	2528
	4372	2485	4378	2515	-	2528	-	2528	-	2528	-	2528	4372	1.98%	2485	2513	2528	2528	2528	2528
	4376	2487	4356	2516	-	2528	-	2528	-	2528	-	2528	4378	1.95%	2482	2515	2528	2528	2528	2528
	4374	2496	4376	2518	-	2528	-	2528	-	2528	-	2528	4376	1.91%	2487	2518	2528	2528	2528	2528
	4368	2499	4362	2519	-	2528	-	2528	-	2528	-	2528	4362	1.90%	2501	2519	2528	2528	2528	2528
	4380	2501	4354	2519	-	2528	-	2528	-	2528	-	2528	4354	1.89%	2506	2519	2528	2528	2528	2528
	4366	2501	4368	2520	-	2528	-	2528	-	2528	-	2528	4368	1.87%	2499	2520	2528	2528	2528	2528
4362	2501	4360	2521	-	2528	-	2528	-	2528	-	2528	4374	1.85%	2496	2522	2528	2528	2528	2528	

	Worst STODAs (2019)												Worst Grades (2019)							
	1.60%		1.90%		2.20%		2.50%		3.33%		5.00%		ID	Grade	STODA					
	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)			1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
Runway 16R	1267	3954	1267	4000	1267	4035	-	4053	-	4053	-	4053	1267	2.35%	3954	4000	4035	4053	4053	4053
	2426	3964	2426	4007	2426	4039	-	4053	-	4053	-	4053	2426	2.32%	3964	4007	4039	4053	4053	4053
	1513	3967	1513	4011	1513	4043	-	4053	-	4053	-	4053	1513	2.26%	3967	4011	4043	4053	4053	4053
	1531	3981	1531	4024	-	4053	-	4053	-	4053	-	4053	1531	2.13%	3981	4024	4053	4053	4053	4053
	1535	3984	1535	4027	-	4053	-	4053	-	4053	-	4053	1535	2.10%	3984	4027	4053	4053	4053	4053
	1533	3990	1533	4031	-	4053	-	4053	-	4053	-	4053	1533	2.07%	3990	4031	4053	4053	4053	4053
	2812	3998	2812	4039	-	4053	-	4053	-	4053	-	4053	2812	1.98%	3998	4039	4053	4053	4053	4053
	2216	4018	2758	4046	-	4053	-	4053	-	4053	-	4053	2758	1.96%	4036	4046	4053	4053	4053	4053
	1539	4021	2760	4047	-	4053	-	4053	-	4053	-	4053	2760	1.92%	4037	4047	4053	4053	4053	4053
	2218	4033	2756	4047	-	4053	-	4053	-	4053	-	4053	2756	1.91%	4037	4047	4053	4053	4053	4053
Runway 25	2882	796	2053	1939	1787	2457	1787	2479	1787	2514	1787	2552	1787	16.64%	2381	2426	2457	2479	2514	2552
	2179	1139	2179	1953	1670	2489	1670	2511	1670	2562	-	2590	1670	4.22%	2408	2457	2489	2511	2562	2590
	2053	1208	2882	2006	5438	2507	1702	2558	-	2590	-	2590	2841	2.76%	2464	2504	2528	2571	2590	2590
	3945	1426	2869	2263	3993	2511	1700	2561	-	2590	-	2590	1702	2.74%	2422	2479	2516	2558	2590	2590
	4827	1499	324	2341	1702	2516	2841	2571	-	2590	-	2590	1700	2.72%	2424	2481	2517	2561	2590	2590
	2869	1623	2039	2347	1700	2517	-	2590	-	2590	-	2590	5438	2.39%	2283	2411	2507	2590	2590	2590
	2875	1643	1785	2358	2053	2521	-	2590	-	2590	-	2590	5436	2.33%	2451	2505	2558	2590	2590	2590
	2293	1669	9541	2362	2841	2528	-	2590	-	2590	-	2590	3993	2.30%	2181	2366	2511	2590	2590	2590
	2039	1671	3993	2366	5436	2558	-	2590	-	2590	-	2590	2053	2.21%	1208	1939	2521	2590	2590	2590
	1785	1685	3177	2397	-	2590	-	2590	-	2590	-	2590	2179	2.17%	1139	1953	2590	2590	2590	2590
Runway 34L	1226	3466	1226	3717	1226	3898	5423	3961	2968	3995	2968	4015	2968	44.02%	3929	3949	3964	3975	3995	4015
	3032	3488	3032	3763	5433	3899	5433	3964	2966	3995	2966	4015	2966	43.10%	3931	3951	3965	3976	3995	4015
	3433	3525	3433	3784	5423	3903	5422	3969	2967	3995	2967	4015	2967	42.82%	3931	3951	3965	3976	3995	4015
	3443	3554	3430	3805	5422	3911	5424	3969	2971	4009	2971	4035	2971	7.38%	3928	3953	3971	3984	4009	4035
	3430	3562	5433	3813	5430	3912	5430	3971	2970	4009	2970	4035	2970	7.35%	3928	3953	3971	3985	4009	4035
	3033	3572	3077	3821	5424	3912	2968	3975	2969	4009	2969	4035	2969	7.34%	3929	3954	3972	3985	4009	4035
	3577	3577	5423	3826	5475	3915	2966	3976	2974	4024	-	4052	2974	4.73%	3927	3957	3978	3994	4024	4023
	3436	3581	3033	3826	9481	3934	2967	3976	2973	4024	-	4052	2973	4.71%	3927	3957	3978	3994	4024	4023
	3673	3593	9481	3827	5476	3937	5475	3977	2972	4024	-	4052	2972	4.70%	3927	3958	3979	3994	4024	4023
	3509	3611	3436	3831	3963	3962	2971	3984	2977	4039	-	4052	2977	3.75%	3926	3961	3985	4004	4039	4023
Runway 34R	2816	1548	2816	2025	418	2292	4509	2389	4026	2479	-	2498	4026	4.22%	2413	2434	2448	2459	2479	2500
	4781	1554	4781	2041	4349	2307	4349	2390	4030	2492	-	2498	4030	3.26%	2409	2437	2454	2468	2492	2518
	2818	1574	2818	2049	4509	2307	4486	2394	-	2498	-	2498	4509	3.08%	2061	2202	2307	2389	2520	2528
	1189	1695	1189	2141	4486	2315	4351	2398	-	2498	-	2498	4349	3.06%	2056	2200	2307	2390	2522	2528
	4365	1737	418	2155	4351	2317	418	2400	-	2498	-	2498	4486	3.06%	2074	2211	2315	2394	2522	2528
	5394	1866	4349	2200	4347	2321	4339	2401	-	2498	-	2498	5414	3.05%	2103	2230	2328	2402	2521	2528
	6604	1910	4509	2202	4339	2321	4347	2401	-	2498	-	2498	4351	3.03%	2073	2212	2317	2398	2526	2528
	418	1963	4486	2211	5414	2328	5414	2402	-	2498	-	2498	3093	3.01%	2111	2237	2336	2409	2525	2528
	4214	2045	4351	2212	3093	2336	3093	2409	-	2498	-	2498	4339	3.01%	2076	2215	2321	2401	2528	2528
	4349	2056	4347	2215	5413	2341	5413	2413	-	2498	-	2498	4347	3.00%	2075	2215	2321	2401	2528	2528

Sydney Airport

2019 STODAs (Mar 2020)

Runway 07

Obstacle Database: 200219

Summary of STODAs												
Max Grade	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%						
ID Grade	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)						
3326 4.33%	854 1390	854 1743	842 1983	9431 2171	9431 2171	9431 2171						

Worst STODAs												
1.60%	1.90%	2.20%	2.50%	3.33%	5.00%							
ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID						
854 1390	854 1743	842 1983	9431 2171	9431 2466	-	2619						
493 1396	493 1752	9431 1992	842 2172	842 2481	-	2619						
842 1500	842 1777	854 2003	830 2206	830 2486	-	2619						
9431 1534	9431 1796	493 2016	2890 2236	2890 2505	-	2619						
378 1568	830 1827	830 2024	854 2249	3326 2516	-	2619						
830 1570	2890 1853	2890 2054	836 2264	836 2527	-	2619						
2890 1599	378 1871	836 2080	493 2266	5442 2539	-	2619						
2941 1607	836 1873	2941 2093	2941 2287	834 2552	-	2619						
836 1617	2941 1875	378 2122	834 2311	2941 2556	-	2619						
9510 1647	9510 1907	9510 2130	9510 2315	9430 2563	-	2619						

Worst				Grades			
ID	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
3326	4.33%	1890	2085	2253	2362	2516	2619
9431	4.24%	1534	1796	1992	2171	2466	2619
830	4.11%	1570	1827	2024	2206	2486	2619
842	4.07%	1500	1777	1983	2172	2481	2619
2890	3.98%	1599	1853	2054	2236	2505	2619
5442	3.90%	1797	2011	2207	2346	2539	2619
836	3.83%	1617	1873	2080	2264	2527	2619
9430	3.73%	1840	2058	2253	2381	2563	2619
834	3.70%	1676	1922	2135	2311	2552	2619
2941	3.64%	1607	1875	2093	2287	2556	2619

ID	Ch	OS	RL	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%	Description
12	2959.7	-3.9	14.02	2.36%	2461	2537	2591	2618	2619	2619	Elec Pole with Light
18	2968.6	0.4	14.63	2.47%	2428	2513	2576	2609	2619	2619	Elec Pole with Light
20	2970.4	-24.6	14.85	2.52%	2415	2505	2568	2604	2619	2619	Elec Pole with Light
22	2973.1	-56.3	14.53	2.41%	2441	2523	2584	2614	2619	2619	Elec Pole with Light
24	2971.5	-93.8	15.00	2.56%	2405	2499	2562	2601	2619	2619	Elec Pole with Light
36	2968.2	20.0	14.33	2.39%	2450	2530	2587	2616	2619	2619	Light Pole
39	3113.7	28.1	20.00	2.83%	2145	2367	2479	2553	2619	2619	Sewer Vent
43	3637.4	-170.0	22.27	1.60%	2603	2619	2619	2619	2619	2619	Sewer Vent
45	3712.8	37.3	28.80	2.09%	2228	2512	2619	2619	2619	2619	Pine Tree
47	3811.4	81.2	30.20	2.03%	2246	2537	2619	2619	2619	2619	Pine Tree Group
48	4196.7	264.5	36.66	1.94%	2215	2582	2619	2619	2619	2619	Traffic Camera+Mobile phone
49	3955.4	-109.6	28.43	1.68%	2553	2619	2619	2619	2619	2619	Pine Tree
50	2724.9	-3.0	7.70	1.62%	2602	2613	2619	2619	2619	2619	07 Localiser
53	4019.3	-109.2	29.11	1.65%	2575	2619	2619	2619	2619	2619	Gum and Pines
55	4044.0	-153.7	24.44	1.29%	2619	2619	2619	2619	2619	2619	Sewer Vent
56	2750.0	-0.1	7.90	1.46%	2609	2619	2619	2619	2619	2619	Blast Deflector N join
57	4282.5	-74.1	34.87	1.74%	2480	2619	2619	2619	2619	2619	Pine Tree
58	2741.0	27.0	8.27	1.87%	2592	2605	2616	2619	2619	2619	Blast Deflector S join (highest point)
60	2728.9	63.2	8.05	1.87%	2593	2605	2615	2619	2619	2619	Blast Deflector S end
61	5977.4	-439.4	53.40	1.41%	2619	2619	2619	2619	2619	2619	St Spyridon West Tower
67	7988.3	-255.7	92.90	1.62%	2557	2619	2619	2619	2619	2619	Trig Station atop water tower
69	8642.1	636.6	78.80	1.21%	2619	2619	2619	2619	2619	2619	Building
73	8757.4	676.9	90.36	1.37%	2619	2619	2619	2619	2619	2619	Norfolk Pine Tree
75	8793.7	853.8	80.40	1.20%	2619	2619	2619	2619	2619	2619	Roof of House
77	4540.3	122.2	44.62	2.01%	1987	2508	2619	2619	2619	2619	Mobile Phone Tower
98	2756.4	38.7	9.23	2.36%	2554	2585	2600	2611	2619	2619	Light Pole
99	2728.1	-18.9	7.89	1.74%	2598	2609	2619	2619	2619	2619	Obstruction Light (Lit 1/1)
100	2748.2	67.8	9.21	2.49%	2548	2579	2595	2607	2619	2619	Light Pole
101	2728.1	19.5	7.87	1.72%	2599	2610	2619	2619	2619	2619	Obstruction Light (Lit 1/1)
102	2740.4	95.5	9.12	2.59%	2545	2576	2593	2604	2619	2619	Light Pole
109	2961.1	41.6	14.43	2.47%	2434	2516	2577	2609	2619	2619	Light Pole
113	2925.1	115.8	14.28	2.71%	2403	2491	2548	2590	2619	2619	Light Pole
115	2937.3	88.9	15.56	3.01%	2313	2434	2503	2554	2619	2619	Light Pole
117	2953.2	103.0	15.12	2.73%	2373	2475	2539	2587	2619	2619	Light Pole
119	2954.8	122.6	13.88	2.35%	2465	2540	2592	2619	2619	2619	Light Pole
125	3023.4	136.6	16.70	2.65%	2335	2462	2537	2591	2619	2619	Light Pole
127	3057.9	135.0	16.70	2.44%	2381	2496	2571	2613	2619	2619	Light Pole
137	3079.3	117.5	21.20	3.31%	1990	2229	2382	2473	2611	2619	Gum Tree
139	3071.7	103.6	16.47	2.32%	2415	2519	2591	2619	2619	2619	TV Antenna (used to be Chimney at 15.5)
143	3188.5	60.8	18.79	2.25%	2381	2515	2598	2619	2619	2619	Tile Roof of House
147	3617.6	10.4	19.48	1.35%	2619	2619	2619	2619	2619	2619	Light Pole
149	3642.6	37.5	20.50	1.42%	2619	2619	2619	2619	2619	2619	Light Pole
151	3672.6	35.1	20.50	1.38%	2619	2619	2619	2619	2619	2619	Light Pole
153	3680.7	66.8	21.80	1.49%	2619	2619	2619	2619	2619	2619	Light Pole
155	3715.3	90.8	22.90	1.54%	2619	2619	2619	2619	2619	2619	Light Pole
157	3752.6	112.5	22.80	1.48%	2619	2619	2619	2619	2619	2619	Light Pole
159	3785.9	126.8	23.00	1.46%	2619	2619	2619	2619	2619	2619	Light Pole

Sydney Airport

2019 STODAs (Mar 2020)

Runway 07

Obstacle Database: 200219

161	3816.9	138.2	22.80	1.40%	2619	2619	2619	2619	2619	2619	Light Pole
163	3822.3	116.9	22.60	1.38%	2619	2619	2619	2619	2619	2619	Light Pole
165	3769.9	96.9	22.00	1.39%	2619	2619	2619	2619	2619	2619	Light Pole
169	6726.7	-592.1	71.60	1.60%	2606	2619	2619	2619	2619	2619	Antenna on Flats
173	6644.1	-356.9	59.90	1.34%	2619	2619	2619	2619	2619	2619	Antenna
175	6750.6	-304.9	66.70	1.47%	2619	2619	2619	2619	2619	2619	Sewer Vent
177	6127.0	-440.1	60.30	1.55%	2619	2619	2619	2619	2619	2619	Air Cond. Cooling Tower
178	2809.1	58.3	11.20	2.75%	2486	2535	2572	2595	2619	2619	Tree
179	6365.3	-537.3	54.20	1.29%	2619	2619	2619	2619	2619	2619	Roof of Flats
183	8114.4	-107.3	89.48	1.52%	2619	2619	2619	2619	2619	2619	She Oak
185	8139.1	-68.9	101.00	1.72%	2086	2619	2619	2619	2619	2619	Fig Tree
187	8157.4	12.3	96.86	1.64%	2481	2619	2619	2619	2619	2619	Norfolk Pine Tree
189	8123.4	-73.8	91.00	1.54%	2619	2619	2619	2619	2619	2619	Chimney
191	6696.2	-270.2	62.60	1.39%	2619	2619	2619	2619	2619	2619	Sewer Vent
193	6818.4	-380.5	70.10	1.53%	2619	2619	2619	2619	2619	2619	Antenna
194	3055.1	83.3	16.45	2.40%	2396	2505	2580	2617	2619	2619	Flood Light
198	3074.6	68.0	15.25	2.03%	2498	2586	2619	2619	2619	2619	Flood Light
200	3092.5	60.4	16.81	2.29%	2414	2523	2595	2619	2619	2619	Flood Light
203	2773.5	-84.6	9.04	1.98%	2582	2601	2615	2619	2619	2619	Light Pole
204	3488.6	-179.8	26.70	2.38%	2076	2394	2548	2619	2619	2619	Tree
205	2774.3	-69.3	9.10	2.00%	2580	2600	2614	2619	2619	2619	Light Pole
206	3484.6	-171.0	25.61	2.27%	2179	2454	2590	2619	2619	2619	Tree
207	2774.3	-50.0	9.13	2.02%	2578	2599	2613	2619	2619	2619	Light Pole
209	2772.3	-30.6	9.20	2.10%	2572	2596	2610	2619	2619	2619	Light Pole
210	4343.8	-112.4	36.10	1.75%	2465	2619	2619	2619	2619	2619	Tree
211	2770.5	-14.0	9.09	2.05%	2577	2598	2611	2619	2619	2619	Light Pole
214	6688.7	-238.3	61.13	1.35%	2619	2619	2619	2619	2619	2619	Antenna on Roof of units
216	6554.0	-256.4	56.20	1.28%	2619	2619	2619	2619	2619	2619	NE Cnr Air Cond Vent
218	6511.9	-228.8	57.22	1.32%	2619	2619	2619	2619	2619	2619	Flag Pole
220	6355.1	-491.7	59.71	1.44%	2619	2619	2619	2619	2619	2619	Lightning Conductor on roof
226	8131.7	150.1	85.79	1.45%	2619	2619	2619	2619	2619	2619	Palm Tree
228	8184.5	107.6	93.93	1.58%	2619	2619	2619	2619	2619	2619	Tree
230	8162.3	103.6	93.00	1.57%	2619	2619	2619	2619	2619	2619	Tree
234	8183.2	91.8	92.67	1.56%	2619	2619	2619	2619	2619	2619	Tree
291	7970.3	72.1	88.70	1.55%	2619	2619	2619	2619	2619	2619	Antenna on Flats
295	8174.0	94.4	91.38	1.54%	2619	2619	2619	2619	2619	2619	House Roof
297	8731.6	847.8	82.00	1.24%	2619	2619	2619	2619	2619	2619	Gum Tree
299	8749.2	837.4	79.58	1.20%	2619	2619	2619	2619	2619	2619	Tile House Roof
343	3189.2	75.1	25.61	3.44%	1816	2051	2265	2402	2596	2619	Gum Tree
348	7626.0	-85.0	74.00	1.36%	2619	2619	2619	2619	2619	2619	Tree
349	3000.8	-66.2	15.67	2.54%	2390	2493	2561	2603	2619	2619	G.I. Factory Roof
352	7826.7	-586.5	92.50	1.66%	2418	2619	2619	2619	2619	2619	Pine Tree
353	8752.4	673.7	84.32	1.28%	2619	2619	2619	2619	2619	2619	Norfolk Pine Tree
356	7888.5	-554.9	96.52	1.72%	2133	2619	2619	2619	2619	2619	Pine Tree
357	3800.0	50.1	25.02	1.61%	2599	2619	2619	2619	2619	2619	Group of Shrubs
358	7904.3	-582.8	96.40	1.71%	2171	2619	2619	2619	2619	2619	Tree
359	3700.1	29.8	24.53	1.72%	2542	2619	2619	2619	2619	2619	Pine Tree
366	7343.3	-514.1	75.52	1.47%	2619	2619	2619	2619	2619	2619	Pine Tree
368	4385.2	-165.0	28.03	1.25%	2619	2619	2619	2619	2619	2619	Elec Pole
370	4392.1	-131.4	27.98	1.24%	2619	2619	2619	2619	2619	2619	Apex of house roof
372	4369.5	-139.3	27.06	1.20%	2619	2619	2619	2619	2619	2619	Elec Pole
373	3808.1	50.8	21.46	1.30%	2619	2619	2619	2619	2619	2619	Natural surface
378	3476.7	61.6	34.16	3.29%	1568	1871	2122	2338	2616	2619	Sheoak
380	3528.6	61.5	33.70	3.05%	1649	1949	2225	2419	2619	2619	Sheoak
382	3563.9	58.9	31.99	2.75%	1791	2103	2375	2523	2619	2619	Sheoak
384	3626.3	96.5	26.95	2.08%	2276	2523	2619	2619	2619	2619	Tree
409	3781.0	23.2	24.53	1.60%	2605	2619	2619	2619	2619	2619	Banksia
413	3761.2	25.8	21.17	1.33%	2619	2619	2619	2619	2619	2619	Tree and Banksias (2)
455	3789.7	74.8	23.02	1.45%	2619	2619	2619	2619	2619	2619	Fence
457	3786.9	73.6	22.28	1.39%	2619	2619	2619	2619	2619	2619	Fence
459	3773.2	67.7	21.51	1.34%	2619	2619	2619	2619	2619	2619	Fence
465	3600.4	-58.0	30.72	2.52%	1908	2259	2478	2601	2619	2619	Stringy Bark
467	3608.0	-46.9	26.88	2.11%	2253	2509	2619	2619	2619	2619	Stringy Bark
469	3621.6	-35.9	28.92	2.29%	2068	2413	2579	2619	2619	2619	Stringy Bark
470	2713.7	-82.4	7.63	1.73%	2599	2609	2617	2619	2619	2619	Eastern Lighting Equipment Road (ELER)
471	3628.6	-40.6	29.20	2.30%	2053	2404	2574	2619	2619	2619	Stringy Bark
493	3620.9	-121.5	39.14	3.31%	1396	1752	2016	2266	2613	2619	Gum Tree Group
521	3733.8	-130.7	23.90	1.61%	2601	2619	2619	2619	2619	2619	Pine Tree
523	3745.7	-123.2	26.50	1.82%	2467	2619	2619	2619	2619	2619	Gum and Pines
535	3773.9	-122.7	30.32	2.11%	2171	2495	2619	2619	2619	2619	Gum and Pines
549	3832.5	-111.2	28.00	1.81%	2460	2619	2619	2619	2619	2619	Gum Tree
555	3848.2	-119.0	25.68	1.60%	2602	2619	2619	2619	2619	2619	Gum
563	3867.9	-109.2	34.18	2.26%	1964	2377	2585	2619	2619	2619	Gum Tree
565	3889.4	-114.4	23.70	1.39%	2619	2619	2619	2619	2619	2619	Pine Tree
585	4059.8	-106.4	27.42	1.49%	2619	2619	2619	2619	2619	2619	Pines
595	4029.3	-89.8	29.07	1.64%	2585	2619	2619	2619	2619	2619	Pines and Gums
615	4208.5	-82.9	29.51	1.48%	2619	2619	2619	2619	2619	2619	Pine Trees
617	4235.4	-81.3	32.38	1.63%	2585	2619	2619	2619	2619	2619	Pine Trees
623	4266.3	-84.6	30.86	1.51%	2619	2619	2619	2619	2619	2619	Pine Trees
669	7545.8	-196.9	75.00	1.40%	2619	2619	2619	2619	2619	2619	TV Antenna
671	8295.6	734.8	75.42	1.22%	2619	2619	2619	2619	2619	2619	M.B. Fig Tree
680	8208.4	187.6	94.00	1.57%	2619	2619	2619	2619	2619	2619	Gum

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725	2757.4	-12.5	7.90	1.38%	2612	2619	2619	2619	2619	2619	Perimeter Road Crown (plus 3.6m)
731	2719.4	102.4	7.53	1.53%	2605	2615	2619	2619	2619	2619	Perimeter Road Crown (plus 3.6m)
780	3255.3	-157.2	26.33	3.20%	1837	2088	2311	2443	2619	2619	Gum Tree
782	3051.0	57.9	15.88	2.29%	2434	2531	2595	2619	2619	2619	Vent Pipe
812	3132.0	115.3	23.86	3.49%	1868	2098	2296	2416	2592	2619	Row of Sheoaks
813	2775.0	-109.2	8.24	1.44%	2610	2619	2619	2619	2619	2619	Road Crown (plus 4.3m)
821	2768.7	7.7	8.36	1.58%	2604	2618	2619	2619	2619	2619	Road Crown (plus 4.3m)
824	3138.2	114.2	23.89	3.45%	1873	2105	2303	2422	2596	2619	Row of Sheoaks
826	3150.2	114.4	23.23	3.25%	1927	2175	2357	2462	2618	2619	Row of Sheoaks
827	2737.9	104.7	8.30	1.95%	2589	2603	2613	2619	2619	2619	Road Crown (plus 4.3m)
828	3173.6	105.3	23.69	3.19%	1922	2174	2360	2468	2619	2619	Gum Tree
830	3195.0	100.7	29.62	4.11%	1570	1827	2024	2206	2486	2619	Gum Tree
834	3225.5	90.4	28.42	3.70%	1676	1922	2135	2311	2552	2619	Gum Tree
836	3231.9	86.5	29.46	3.83%	1617	1873	2080	2264	2527	2619	Gum Tree
838	3218.0	86.4	25.71	3.29%	1838	2082	2299	2429	2613	2619	Gum Tree
841	2815.4	-114.3	10.52	2.31%	2532	2577	2600	2616	2619	2619	Road (West Edge) (plus 4.6m)
842	3250.1	72.0	31.63	4.07%	1500	1777	1983	2172	2481	2619	Gum Tree
844	3542.6	-104.4	26.07	2.17%	2228	2488	2612	2619	2619	2619	Gum Tree
846	3568.5	-111.6	30.17	2.55%	1911	2255	2472	2595	2619	2619	Gum Tree
849	2801.6	-0.2	11.07	2.78%	2487	2535	2571	2594	2619	2619	Road (West Edge) (plus 4.6m)
854	3594.1	-106.1	38.80	3.37%	1390	1743	2003	2249	2601	2619	Gum Tree
855	2764.9	108.1	10.67	3.22%	2475	2518	2552	2578	2612	2619	Road (West Edge) (plus 4.6m)
867	3074.5	-92.0	17.60	2.55%	2327	2466	2547	2601	2619	2619	SW cnr Conc Building
869	3087.9	-85.7	17.60	2.48%	2346	2479	2560	2609	2619	2619	SE cnr Conc Building
871	3112.1	-136.8	17.60	2.35%	2378	2502	2584	2619	2619	2619	NE cnr Conc Building
873	3146.4	-107.9	17.50	2.18%	2427	2541	2608	2619	2619	2619	Blue Conc Sail
875	3119.3	-70.2	16.45	2.09%	2469	2569	2619	2619	2619	2619	Green Conc Sail
884	3105.8	70.8	19.18	2.71%	2219	2409	2507	2578	2619	2619	Gum Tree
983	2947.4	55.8	14.01	2.44%	2449	2525	2582	2611	2619	2619	Light pole
1162	3113.3	-45.4	18.98	2.63%	2251	2429	2522	2590	2619	2619	Gum Tree
1257	2742.3	-61.1	7.49	1.21%	2618	2619	2619	2619	2619	2619	Localizer shed
1258	2626.8	0.1	7.49	21.56%	2533	2548	2559	2567	2581	2594	RWY07 Localiser Monitoring point
1263	3627.8	-21.8	30.77	2.46%	1934	2296	2502	2617	2619	2619	Tree
1264	3509.7	-131.4	24.43	2.07%	2339	2539	2619	2619	2619	2619	Tree
1270	3787.7	58.4	31.28	2.16%	2095	2459	2617	2619	2619	2619	Tree
1271	3783.7	68.8	27.61	1.86%	2433	2619	2619	2619	2619	2619	Tree
1272	3789.6	74.2	23.94	1.53%	2619	2619	2619	2619	2619	2619	Fence
1725	2742.2	-58.6	9.40	2.78%	2529	2563	2586	2598	2619	2619	Aerial
1738	3350.7	82.8	29.44	3.21%	1738	2001	2247	2411	2619	2619	Tree
1739	3269.9	146.9	27.20	3.26%	1797	2047	2276	2421	2618	2619	Tree
1776	2744.1	-58.2	9.40	2.73%	2531	2565	2587	2599	2619	2619	Aerial
1777	2720.7	-76.8	7.44	1.43%	2608	2618	2619	2619	2619	2619	Vent
1801	6858.1	-292.4	72.00	1.56%	2619	2619	2619	2619	2619	2619	Antenna
1803	3297.5	137.7	25.17	2.83%	1955	2243	2425	2530	2619	2619	Tree
2312	7982.1	-215.5	93.43	1.63%	2517	2619	2619	2619	2619	2619	Mobile Phone Tower
2322	3789.4	-45.9	34.80	2.46%	1841	2221	2482	2617	2619	2619	Tree
2324	4622.6	-59.6	38.80	1.64%	2573	2619	2619	2619	2619	2619	Norfolk Pine Tree
2890	3205.6	102.7	29.33	3.98%	1599	1853	2054	2236	2505	2619	Tree
2892	4342.8	-124.2	37.88	1.85%	2329	2619	2619	2619	2619	2619	Pine Tree
2893	4280.7	-142.9	30.84	1.50%	2619	2619	2619	2619	2619	2619	Tree
2894	4422.5	-84.3	38.67	1.81%	2370	2619	2619	2619	2619	2619	Pine Tree
2895	4400.8	-141.5	34.83	1.62%	2592	2619	2619	2619	2619	2619	Tree
2941	3297.4	77.3	30.67	3.64%	1607	1875	2093	2287	2556	2619	Tree
2955	2994.8	136.4	18.75	3.40%	2080	2295	2413	2486	2603	2619	Tree
3112	3125.8	-132.1	22.76	3.31%	1932	2175	2353	2457	2611	2619	Tree
3114	3295.9	-138.9	25.74	2.92%	1916	2195	2394	2506	2619	2619	Norfolk Pine Tree
3115	3409.0	-20.5	27.60	2.74%	1912	2219	2426	2545	2619	2619	Tree
3185	3138.1	-45.9	22.59	3.20%	1958	2208	2377	2476	2619	2619	Tree
3307	8082.3	-156.5	94.60	1.62%	2545	2619	2619	2619	2619	2619	Gum Tree
3309	8697.1	584.4	86.50	1.32%	2619	2619	2619	2619	2619	2619	Pine Tree
3314	8719.4	578.2	86.00	1.31%	2619	2619	2619	2619	2619	2619	Pine Tree
3315	2697.9	-88.6	7.31	1.68%	2601	2609	2616	2619	2619	2619	Road surface (plus 3.6m)
3326	2961.3	122.9	20.79	4.33%	1890	2085	2253	2362	2516	2619	Tree
3332	3048.7	105.2	19.58	3.17%	2083	2311	2431	2506	2619	2619	Tree
3334	3072.7	-135.8	19.89	3.07%	2090	2321	2442	2516	2619	2619	Tree
3335	3073.1	94.5	20.00	3.09%	2080	2314	2437	2512	2619	2619	Tree
3339	3124.4	-79.4	21.65	3.10%	2011	2261	2411	2499	2619	2619	Tree
3340	3127.5	-90.7	20.99	2.95%	2069	2316	2447	2527	2619	2619	Tree
3341	3184.5	-1.6	17.61	2.06%	2461	2573	2619	2619	2619	2619	Power Pole
3342	3191.1	22.6	20.68	2.57%	2203	2416	2523	2597	2619	2619	Tree
3343	3169.1	30.6	17.73	2.13%	2436	2551	2615	2619	2619	2619	Power Pole
3344	3170.7	49.9	19.17	2.39%	2325	2480	2572	2619	2619	2619	Palm Tree
3345	3230.3	-0.7	19.58	2.22%	2371	2515	2602	2619	2619	2619	Palm Tree
3346	3249.6	12.8	21.11	2.40%	2256	2456	2562	2619	2619	2619	Palm Tree
3347	3301.8	-125.6	21.00	2.20%	2348	2512	2606	2619	2619	2619	Aerial atop block of flats
3348	3334.5	-94.7	26.01	2.80%	1938	2232	2424	2534	2619	2619	Tree
3350	3730.3	13.4	28.63	2.04%	2274	2539	2619	2619	2619	2619	Tree
3351	3729.1	48.3	29.70	2.14%	2160	2483	2619	2619	2619	2619	Tree
3668	2950.5	-0.1	16.76	3.25%	2211	2376	2463	2519	2614	2619	Port Botany Rail (plus 5.3m)
3791	2958.7	16.2	16.67	3.15%	2234	2392	2476	2532	2619	2619	Port Botany Rail (plus 5.3m)
3866	6784.2	-382.2	68.67	1.50%	2619	2619	2619	2619	2619	2619	Tree
3868	6711.4	-381.8	63.58	1.41%	2619	2619	2619	2619	2619	2619	Tree

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3870	6745.0	-349.8	64.73	1.42%	2619	2619	2619	2619	2619	2619	Tree
3872	6880.1	-428.2	67.92	1.45%	2619	2619	2619	2619	2619	2619	Tree
3879	2986.2	57.9	16.60	2.89%	2287	2428	2505	2562	2619	2619	Port Botany Rail (plus 5.3m)
3881	3020.7	94.0	16.70	2.67%	2331	2460	2534	2590	2619	2619	Port Botany Rail (plus 5.3m)
3883	3060.1	124.8	16.88	2.47%	2369	2489	2566	2610	2619	2619	Port Botany Rail (plus 5.3m)
3885	3097.8	149.2	16.98	2.30%	2408	2519	2593	2619	2619	2619	Port Botany Rail (plus 5.3m)
3936	6794.8	-600.2	71.20	1.56%	2619	2619	2619	2619	2619	2619	Building
3938	6757.5	-530.2	65.14	1.43%	2619	2619	2619	2619	2619	2619	Building
3939	2647.5	43.3	6.47	1.67%	2602	2606	2609	2612	2618	2619	Frangible PVC marker
3968	2812.0	93.7	12.00	3.12%	2438	2497	2539	2572	2617	2619	Tree
3969	3010.7	-115.0	17.77	3.01%	2206	2385	2477	2540	2619	2619	Tree
3973	2930.2	-128.6	15.16	2.95%	2339	2450	2513	2564	2619	2619	Port Botany Rail (plus 5.3m)
3976	3492.7	79.2	32.40	3.02%	1695	1985	2258	2437	2619	2619	Tree
4408	2726.7	-60.8	7.34	1.25%	2615	2619	2619	2619	2619	2619	Comms Hut
4414	2811.3	107.4	12.19	3.23%	2423	2487	2530	2564	2613	2619	Tree
4420	2847.4	-23.7	11.81	2.55%	2486	2541	2582	2603	2619	2619	Tree
4430	2979.4	-84.8	18.09	3.36%	2121	2323	2429	2496	2606	2619	Tree
4468	2787.8	-32.8	11.20	3.10%	2465	2513	2551	2579	2617	2619	Shrub
4469	2983.0	-100.5	17.55	3.18%	2183	2365	2460	2520	2619	2619	Tree
4471	2951.6	37.1	14.59	2.59%	2412	2501	2561	2599	2619	2619	Light pole
4474	2956.4	84.4	13.65	2.27%	2480	2553	2599	2619	2619	2619	Light pole
4475	3071.4	40.1	16.92	2.42%	2380	2498	2575	2616	2619	2619	Vent on building
4476	3041.6	64.7	16.35	2.45%	2387	2498	2571	2611	2619	2619	Palm Tree
4480	3043.1	67.5	15.95	2.35%	2419	2518	2588	2619	2619	2619	Palm Tree
4481	3569.8	-1.6	26.22	2.13%	2258	2506	2619	2619	2619	2619	Norfolk Pine Tree
4482	3568.0	-75.2	27.59	2.28%	2113	2432	2585	2619	2619	2619	Tree
4483	3650.5	54.6	28.05	2.14%	2202	2491	2619	2619	2619	2619	Tree
4489	3014.8	38.9	16.06	2.55%	2377	2487	2557	2602	2619	2619	Tree
4490	3114.4	-150.7	16.99	2.22%	2427	2536	2603	2619	2619	2619	Air conditioning unit atop building
4606	2719.8	88.6	7.90	1.89%	2594	2604	2614	2619	2619	2619	Sign
4607	2764.7	9.1	9.12	2.15%	2570	2594	2607	2619	2619	2619	Light Pole
4608	2772.0	106.3	9.00	1.97%	2583	2601	2615	2619	2619	2619	Light Pole
4609	2755.8	101.4	8.52	1.85%	2592	2606	2618	2619	2619	2619	Light Pole
4610	2768.7	48.5	9.30	2.22%	2562	2590	2605	2617	2619	2619	Traffic sign
4611	2812.3	-108.1	9.61	1.87%	2585	2606	2619	2619	2619	2619	Light Pole
4612	2803.7	1.0	9.67	2.00%	2574	2599	2615	2619	2619	2619	Light Pole
4613	2784.2	-4.9	9.13	1.90%	2586	2604	2618	2619	2619	2619	Light Pole
4614	2819.2	4.8	10.99	2.50%	2508	2556	2589	2607	2619	2619	Sign
4615	2778.1	16.2	9.13	1.98%	2581	2601	2615	2619	2619	2619	Light Pole
4616	2775.0	26.7	9.07	1.98%	2582	2601	2615	2619	2619	2619	Light Pole
4617	2771.9	37.3	9.06	2.01%	2580	2599	2613	2619	2619	2619	Light Pole
4618	2769.0	47.9	9.03	2.03%	2579	2599	2612	2619	2619	2619	Light Pole
4619	2766.3	58.7	8.97	2.03%	2580	2599	2612	2619	2619	2619	Light Pole
4620	2763.8	69.9	8.77	1.92%	2587	2603	2616	2619	2619	2619	Light Pole
4621	2761.5	80.1	8.55	1.80%	2594	2608	2619	2619	2619	2619	Light Pole
4622	2778.0	85.1	9.05	1.92%	2585	2603	2617	2619	2619	2619	Light Pole
4623	2758.9	90.6	8.51	1.80%	2594	2608	2619	2619	2619	2619	Light Pole
4624	2774.9	95.7	9.06	1.97%	2583	2601	2615	2619	2619	2619	Light Pole
4625	2811.2	-103.2	9.56	1.86%	2586	2607	2619	2619	2619	2619	Pole
4626	2810.4	-98.6	9.61	1.89%	2584	2605	2619	2619	2619	2619	Light Pole
4627	2808.1	-88.8	9.68	1.95%	2578	2601	2618	2619	2619	2619	Light Pole
4628	2805.4	-78.6	9.68	1.98%	2575	2600	2616	2619	2619	2619	Light Pole
4629	2802.5	-67.1	9.49	1.91%	2583	2604	2619	2619	2619	2619	Light Pole
4630	2802.5	-66.4	9.42	1.87%	2586	2606	2619	2619	2619	2619	Sign
4631	2798.5	-58.2	9.21	1.79%	2592	2610	2619	2619	2619	2619	Light Pole
4632	2795.5	-47.5	9.30	1.88%	2587	2605	2619	2619	2619	2619	Light Pole
4633	2816.9	-41.1	9.77	1.91%	2581	2604	2619	2619	2619	2619	Light Pole
4634	2789.2	-26.3	9.05	1.80%	2592	2609	2619	2619	2619	2619	Light Pole
4635	2813.6	-30.5	9.73	1.92%	2580	2603	2619	2619	2619	2619	Light Pole
4636	2810.3	-20.0	9.71	1.95%	2578	2602	2618	2619	2619	2619	Light Pole
4637	2787.4	-15.5	9.14	1.87%	2588	2606	2619	2619	2619	2619	Light Pole
4638	2807.0	-9.5	9.70	1.97%	2576	2600	2617	2619	2619	2619	Light Pole
4639	2785.5	-9.9	9.21	1.94%	2583	2602	2617	2619	2619	2619	Sign
4640	2781.2	5.6	9.11	1.93%	2585	2603	2617	2619	2619	2619	Light Pole
4641	2800.6	11.5	9.45	1.91%	2583	2604	2619	2619	2619	2619	Light Pole
4642	2797.4	21.9	9.41	1.92%	2583	2603	2619	2619	2619	2619	Light Pole
4643	2815.5	27.2	9.74	1.91%	2581	2604	2619	2619	2619	2619	Light Pole
4644	2794.1	32.4	9.39	1.94%	2581	2602	2617	2619	2619	2619	Light Pole
4645	2812.3	37.7	9.65	1.89%	2583	2605	2619	2619	2619	2619	Light Pole
4646	2790.8	43.1	9.34	1.95%	2581	2602	2617	2619	2619	2619	Light Pole
4647	2787.6	53.5	9.35	1.99%	2578	2600	2615	2619	2619	2619	Light Pole
4648	2806.5	58.7	9.47	1.86%	2587	2607	2619	2619	2619	2619	Light Pole
4649	2784.5	64.0	9.12	1.89%	2587	2605	2619	2619	2619	2619	Light Pole
4650	2803.3	69.6	9.46	1.88%	2585	2605	2619	2619	2619	2619	Light Pole
4651	2781.2	74.6	9.12	1.93%	2585	2603	2617	2619	2619	2619	Light Pole
4652	2800.3	80.0	9.45	1.91%	2583	2604	2619	2619	2619	2619	Light Pole
4653	2797.3	90.5	9.45	1.94%	2581	2602	2618	2619	2619	2619	Light Pole
4654	2794.4	101.2	9.43	1.96%	2580	2601	2617	2619	2619	2619	Light Pole
4655	2852.6	-102.1	10.56	1.96%	2567	2600	2619	2619	2619	2619	Sign
4656	2849.8	-90.6	10.44	1.93%	2572	2602	2619	2619	2619	2619	Sign
4657	2841.9	-87.6	10.48	2.01%	2562	2597	2616	2619	2619	2619	Sign
4658	2827.9	-81.8	10.15	1.99%	2569	2599	2617	2619	2619	2619	Sign

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Runway 07

Obstacle Database: 200219

4660	2827.5	-80.8	9.97	1.91%	2579	2604	2619	2619	2619	2619	Light Pole
4661	2825.3	-72.0	10.01	1.95%	2575	2601	2619	2619	2619	2619	Light Pole
4662	2823.0	-62.4	10.01	1.97%	2572	2600	2618	2619	2619	2619	Light Pole
4664	2838.2	-58.2	10.28	1.96%	2571	2601	2619	2619	2619	2619	Light Pole
4666	2820.0	-51.6	9.80	1.90%	2582	2604	2619	2619	2619	2619	Light Pole
4668	2835.1	-47.3	10.26	1.98%	2569	2599	2618	2619	2619	2619	Light Pole
4670	2832.0	-36.9	10.18	1.97%	2571	2600	2618	2619	2619	2619	Light Pole
4672	2824.0	-4.7	9.92	1.92%	2579	2603	2619	2619	2619	2619	Light Pole
4674	2820.7	7.5	9.82	1.90%	2581	2604	2619	2619	2619	2619	Light Pole
4676	2818.3	16.6	9.78	1.90%	2581	2604	2619	2619	2619	2619	Light Pole
4678	2809.3	48.2	9.56	1.88%	2585	2605	2619	2619	2619	2619	Light Pole
4679	2869.3	22.7	13.16	2.87%	2420	2494	2544	2582	2619	2619	Tree
4681	2920.3	-108.6	11.91	1.96%	2551	2599	2619	2619	2619	2619	Railway Bridge
4682	2925.1	-83.5	15.20	3.01%	2329	2442	2507	2557	2619	2619	Pole
4684	2829.5	-26.1	10.11	1.96%	2573	2601	2619	2619	2619	2619	Light Pole
4686	2826.5	-15.5	10.04	1.95%	2574	2601	2619	2619	2619	2619	Light Pole
4749	2849.5	-79.4	11.05	2.20%	2534	2583	2606	2619	2619	2619	Traffic lights
4750	2840.6	-72.1	11.48	2.48%	2499	2552	2589	2608	2619	2619	Traffic lights
4751	2837.5	11.2	11.82	2.67%	2476	2531	2573	2597	2619	2619	Tree
4753	2961.5	-50.0	15.21	2.69%	2377	2479	2543	2590	2619	2619	Light Pole
4755	3002.8	66.5	16.28	2.68%	2343	2464	2535	2589	2619	2619	Tree
4762	3070.6	-125.2	19.36	2.96%	2140	2355	2465	2536	2619	2619	Tree
4763	3071.8	-114.7	19.47	2.98%	2131	2349	2461	2533	2619	2619	Tree
4782	3221.0	47.9	20.62	2.43%	2260	2454	2556	2617	2619	2619	Tree
4829	4085.4	270.9	31.43	1.74%	2497	2619	2619	2619	2619	2619	Tree
4830	7317.4	-575.4	76.90	1.51%	2619	2619	2619	2619	2619	2619	Vent atop building
4831	8052.2	-86.4	96.58	1.67%	2383	2619	2619	2619	2619	2619	Norfolk Pine Tree
5282	6758.1	-585.0	69.39	1.53%	2619	2619	2619	2619	2619	2619	Building
5283	6715.8	-578.9	67.08	1.49%	2619	2619	2619	2619	2619	2619	Building
5284	6700.3	-558.6	61.08	1.35%	2619	2619	2619	2619	2619	2619	Building
5285	6706.6	-531.4	61.67	1.36%	2619	2619	2619	2619	2619	2619	Building
5286	6721.2	-504.4	61.61	1.36%	2619	2619	2619	2619	2619	2619	Building
5287	6679.6	-380.8	58.22	1.29%	2619	2619	2619	2619	2619	2619	Building
5288	6599.1	-381.1	55.83	1.25%	2619	2619	2619	2619	2619	2619	Building
5349	6801.3	-445.1	64.97	1.41%	2619	2619	2619	2619	2619	2619	Tree
5350	6808.6	-418.9	67.47	1.47%	2619	2619	2619	2619	2619	2619	Tree
5351	6800.0	-415.3	67.71	1.48%	2619	2619	2619	2619	2619	2619	Tree
5352	6794.1	-407.6	66.17	1.44%	2619	2619	2619	2619	2619	2619	Tree
5353	6722.8	-356.0	58.99	1.29%	2619	2619	2619	2619	2619	2619	Tree
5354	6618.7	-342.1	60.02	1.35%	2619	2619	2619	2619	2619	2619	Tree
5355	6687.7	-257.8	62.29	1.38%	2619	2619	2619	2619	2619	2619	Tree
5356	6613.5	-227.2	58.75	1.32%	2619	2619	2619	2619	2619	2619	Norfolk Pine Tree
5440	2817.6	89.3	12.30	3.18%	2423	2488	2531	2566	2615	2619	Tree
5442	3089.0	119.2	24.31	3.90%	1797	2011	2207	2346	2539	2619	Tree
5443	3119.1	116.2	24.16	3.64%	1836	2058	2258	2388	2573	2619	Tree
5446	2761.0	74.7	9.60	2.54%	2536	2572	2592	2605	2619	2619	Traffic Sign
5447	2770.1	95.3	9.75	2.49%	2536	2573	2594	2607	2619	2619	Traffic Sign
5448	2846.0	-118.3	11.01	2.21%	2533	2581	2605	2619	2619	2619	Traffic lights
5449	2923.8	-50.6	13.91	2.60%	2429	2507	2564	2599	2619	2619	Tree
5450	2937.1	-47.1	12.95	2.19%	2503	2571	2606	2619	2619	2619	Pole
5451	2932.8	-46.2	13.02	2.24%	2496	2563	2602	2619	2619	2619	Pole
5452	2982.6	1.8	15.34	2.57%	2393	2493	2558	2600	2619	2619	Tree
5453	2981.4	11.3	15.50	2.63%	2379	2483	2549	2595	2619	2619	Tree
5454	2980.0	-43.2	15.51	2.64%	2376	2481	2547	2594	2619	2619	Tree
5455	2983.6	18.3	14.94	2.46%	2424	2512	2577	2610	2619	2619	Tree
5456	2990.5	29.9	14.71	2.35%	2448	2532	2591	2619	2619	2619	Tree
5457	3010.3	53.2	16.23	2.62%	2357	2474	2545	2595	2619	2619	Tree
5459	3150.3	33.8	18.53	2.36%	2352	2492	2580	2619	2619	2619	Tree
5460	3555.0	-22.7	25.19	2.05%	2337	2545	2619	2619	2619	2619	Pine Tree
5496	2777.0	74.4	10.08	2.59%	2521	2562	2589	2603	2619	2619	Traffic sign
5497	2794.4	111.7	9.90	2.23%	2550	2587	2604	2618	2619	2619	Tree
5499	2825.8	-7.9	10.77	2.31%	2528	2575	2599	2616	2619	2619	Tree
8867	2620.0	27.5	6.12	470.80%	2599	2601	2602	2604	2606	2610	Gable Marker
9429	3086.3	108.3	22.90	3.62%	1883	2105	2293	2408	2578	2619	Tree
9430	3094.4	113.8	23.70	3.73%	1840	2058	2253	2381	2563	2619	Tree
9431	3188.6	101.7	30.10	4.24%	1534	1796	1992	2171	2466	2619	Tree
9433	2992.3	-40.1	12.60	1.77%	2579	2618	2619	2619	2619	2619	Building
9498	4460.5	84.2	36.43	1.65%	2558	2619	2619	2619	2619	2619	Norfolk Pine
9499	3766.1	-100.1	29.54	2.05%	2239	2527	2619	2619	2619	2619	Gum
9500	3775.3	15.9	30.03	2.08%	2204	2510	2619	2619	2619	2619	TREE
9502	8122.8	-96.0	99.17	1.69%	2247	2619	2619	2619	2619	2619	Gum Tree
9504	3543.8	61.8	32.90	2.91%	1714	2014	2297	2469	2619	2619	TREE
9506	3883.0	62.1	30.88	1.97%	2294	2573	2619	2619	2619	2619	GUM
9510	3286.2	66.8	29.85	3.58%	1647	1907	2130	2315	2570	2619	TREE
9511	3355.0	-112.0	27.62	2.94%	1856	2134	2363	2491	2619	2619	TREE
9512	3432.4	-176.1	29.17	2.85%	1836	2129	2371	2506	2619	2619	TREE
9513	3369.1	77.4	29.58	3.15%	1747	2014	2264	2425	2619	2619	Gum Tree
9524	3406.9	-39.6	22.26	2.07%	2382	2551	2619	2619	2619	2619	TREE
9525	3408.5	-30.6	25.39	2.46%	2078	2381	2527	2615	2619	2619	TREE
9526	3411.3	-11.1	23.35	2.19%	2293	2499	2607	2619	2619	2619	TREE
9527	3336.0	76.2	30.04	3.36%	1685	1949	2187	2367	2605	2619	Gum Tree
9528	3431.6	79.0	29.76	2.93%	1799	2083	2338	2483	2619	2619	Gum Tree

Sydney Airport
2019 STODAs (Mar 2020)
Runway 07
Obstacle Database: 200219

9531	3714.6	76.8	27.35	1.95%	2370	2588	2619	2619	2619	2619	TREE
9546	3186.2	-140.1	20.54	2.57%	2211	2419	2525	2597	2619	2619	SEWERAGE VENT
9547	3151.5	-133.5	20.43	2.71%	2163	2386	2497	2574	2619	2619	Gum Tree
9549	3302.3	-108.3	23.77	2.60%	2071	2355	2496	2589	2619	2619	TREE
9566	2962.9	70.0	16.77	3.14%	2231	2390	2475	2532	2619	2619	TREE
9570	3033.1	125.5	19.36	3.23%	2080	2304	2425	2499	2617	2619	TREE
9571	3010.7	133.3	18.79	3.27%	2101	2316	2429	2500	2613	2619	TREE
9576	4140.7	-223.2	33.53	1.81%	2418	2619	2619	2619	2619	2619	Norfolk Pine
9579	4259.2	-210.0	31.04	1.53%	2619	2619	2619	2619	2619	2619	Gum Tree
9584	4254.0	-85.5	29.62	1.45%	2619	2619	2619	2619	2619	2619	TREE
9585	4152.0	-87.5	31.70	1.68%	2546	2619	2619	2619	2619	2619	Gum
9586	3917.1	-30.8	32.06	2.01%	2228	2545	2619	2619	2619	2619	TREE
9587	3885.4	104.5	36.43	2.40%	1836	2236	2503	2619	2619	2619	Gum
9588	3873.7	171.0	32.20	2.09%	2141	2496	2619	2619	2619	2619	TREE
9589	3915.3	182.6	34.03	2.16%	2033	2441	2618	2619	2619	2619	TREE
9590	4146.4	207.3	30.15	1.58%	2612	2619	2619	2619	2619	2619	TREE
9592	4281.6	10.2	28.70	1.37%	2619	2619	2619	2619	2619	2619	Gum

* Obstacle excluded from critical calculations.

Sydney Airport
2019 STODAs (Mar 2020)
Runway 16L (Diverging 15°)
Obstacle Database: 200219

Summary of STODAs											
Max Grade		1.60%		1.90%		2.20%		2.50%		3.33%	
ID	Grade	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
1001	3.17%	2204	2461	1001	2484	1001	2497	1001	2507	1001	2525
											2528

Worst STODAs											
1.60%		1.90%		2.20%		2.50%		3.33%		5.00%	
ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
2204	2461	1001	2484	1001	2497	1001	2507	1001	2525	-	2528
1001	2467	2204	2494	2204	2519	-	2528	-	2528	-	2528
4378	2482	4372	2513	4356	2526	-	2528	-	2528	-	2528
4372	2485	4378	2515	-	2528	-	2528	-	2528	-	2528
4376	2487	4356	2516	-	2528	-	2528	-	2528	-	2528
4374	2496	4376	2518	-	2528	-	2528	-	2528	-	2528
4368	2499	4362	2519	-	2528	-	2528	-	2528	-	2528
4380	2501	4354	2519	-	2528	-	2528	-	2528	-	2528
4366	2501	4368	2520	-	2528	-	2528	-	2528	-	2528
4362	2501	4360	2521	-	2528	-	2528	-	2528	-	2528

Worst		Grades					
ID	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
1001	3.17%	2467	2484	2497	2507	2525	2528
2204	2.21%	2461	2494	2519	2528	2528	2528
4356	1.98%	2503	2516	2526	2528	2528	2528
4372	1.98%	2485	2513	2528	2528	2528	2528
4378	1.95%	2482	2515	2528	2528	2528	2528
4376	1.91%	2487	2518	2528	2528	2528	2528
4362	1.90%	2501	2519	2528	2528	2528	2528
4354	1.89%	2506	2519	2528	2528	2528	2528
4368	1.87%	2499	2520	2528	2528	2528	2528
4374	1.85%	2496	2522	2528	2528	2528	2528

ID	Ch	OS	RL	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%	Description
1001	2585.8	15.5	5.83	3.17%	2467	2484	2497	2507	2525	2528	Antenna
1974	2684.5	69.1	6.60	1.66%	2512	2528	2528	2528	2528	2528	Western Obstacle light atop RWY 16L Localiser (lit)
2050	2698.1	18.4	6.68	1.58%	2519	2528	2528	2528	2528	2528	Eastern Obstacle light atop RWY 16L Localiser (lit)
2204	2691.3	-31.5	7.61	2.21%	2461	2494	2519	2528	2528	2528	Aerial
2702	2528.5	-76.4	4.09	18.49%	2513	2515	2517	2518	2520	2523	ILS Protected Area Bollard
2706	2540.5	-43.8	4.33	2.64%	2510	2514	2517	2520	2524	2528	ILS Protected Area Bollard
2712	2565.4	56.2	4.48	1.30%	2523	2528	2528	2528	2528	2528	ILS Protected Area Bollard
2714	2538.9	49.4	4.47	4.37%	2501	2506	2510	2513	2519	2525	ILS Protected Area Bollard
4340	2547.1	-7.3	4.40	2.10%	2512	2517	2520	2523	2528	2528	HIAL
4342	2544.0	4.3	4.40	2.51%	2510	2514	2518	2520	2526	2528	HIAL
4344	2540.9	15.9	4.40	3.12%	2507	2511	2515	2518	2523	2528	HIAL
4346	2575.0	0.1	4.88	1.87%	2511	2519	2526	2528	2528	2528	HIAL
4348	2571.9	11.8	4.88	2.00%	2508	2517	2523	2528	2528	2528	HIAL
4350	2568.8	23.3	4.88	2.16%	2505	2514	2520	2526	2528	2528	HIAL
4352	2602.9	7.6	5.36	1.81%	2509	2522	2528	2528	2528	2528	HIAL
4354	2599.8	19.2	5.36	1.89%	2506	2519	2528	2528	2528	2528	HIAL
4356	2596.7	30.8	5.36	1.98%	2503	2516	2526	2528	2528	2528	HIAL
4358	2630.7	15.1	5.83	1.79%	2507	2524	2528	2528	2528	2528	HIAL
4360	2627.5	26.7	5.83	1.84%	2504	2521	2528	2528	2528	2528	HIAL
4362	2624.4	38.3	5.83	1.90%	2501	2519	2528	2528	2528	2528	HIAL
4364	2658.5	22.5	6.33	1.79%	2504	2525	2528	2528	2528	2528	HIAL
4366	2655.4	34.1	6.33	1.83%	2501	2523	2528	2528	2528	2528	HIAL
4368	2652.3	45.7	6.33	1.87%	2499	2520	2528	2528	2528	2528	HIAL
4370	2687.4	27.2	6.82	1.77%	2503	2527	2528	2528	2528	2528	HIAL
4372	2683.1	41.6	7.06	1.98%	2485	2513	2528	2528	2528	2528	HIAL
4374	2679.6	56.1	6.81	1.85%	2496	2522	2528	2528	2528	2528	HIAL
4376	2703.7	47.1	7.35	1.91%	2487	2518	2528	2528	2528	2528	RWY 34R Localiser Far Field Centreline Monitor Antenna
4378	2711.4	49.1	7.57	1.95%	2482	2515	2528	2528	2528	2528	Post
4380	2688.3	104.8	6.86	1.79%	2501	2527	2528	2528	2528	2528	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna
4738	2739.0	56.6	7.55	1.68%	2508	2528	2528	2528	2528	2528	HIAL

* Obstacle excluded from critical calculations.

Sydney Airport
2019 STODAs (Mar 2020)
Runway 16L
Obstacle Database: 200219

Summary of STODAs											
Max Grade	1.60%			1.90%			2.20%			2.50%	3.33%
ID	Grade	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
1001	3.06%	2204	2449	2204	2482	1001	2499	1001	2509	1001	2527
											2528

Worst STODAs											
1.60%		1.90%		2.20%		2.50%		3.33%		5.00%	
ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
2204	2449	2204	2482	1001	2499	1001	2509	1001	2527	-	2528
1001	2469	1001	2486	2204	2506	2204	2525	-	2528	-	2528
4378	2488	4372	2518	-	2528	-	2528	-	2528	-	2528
4372	2490	4378	2520	-	2528	-	2528	-	2528	-	2528
4376	2493	4356	2521	-	2528	-	2528	-	2528	-	2528
4370	2504	4352	2521	-	2528	-	2528	-	2528	-	2528
4374	2505	4354	2521	-	2528	-	2528	-	2528	-	2528
4364	2505	4376	2523	-	2528	-	2528	-	2528	-	2528
4366	2505	4358	2524	-	2528	-	2528	-	2528	-	2528
4368	2505	4362	2524	-	2528	-	2528	-	2528	-	2528

Worst				Grades			
ID	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
1001	3.06%	2469	2486	2499	2509	2527	2528
2204	2.42%	2449	2482	2506	2525	2528	2528
4372	1.91%	2490	2518	2528	2528	2528	2528
4378	1.88%	2488	2520	2528	2528	2528	2528
4376	1.84%	2493	2523	2528	2528	2528	2528
4356	1.83%	2508	2521	2528	2528	2528	2528
4352	1.83%	2508	2521	2528	2528	2528	2528
4354	1.83%	2508	2521	2528	2528	2528	2528
4358	1.78%	2507	2524	2528	2528	2528	2528
4362	1.78%	2507	2524	2528	2528	2528	2528

ID	Ch	OS	RL	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%	Description
1001	2587.9	0.0	5.83	3.06%	2469	2486	2499	2509	2527	2528	Antenna
1974	2697.1	26.2	6.60	1.54%	2523	2528	2528	2528	2528	2528	Western Obstacle light atop RWY 16L Localiser (lit)
2050	2697.1	-26.2	6.68	1.59%	2518	2528	2528	2528	2528	2528	Eastern Obstacle light atop RWY 16L Localiser (lit)
2204	2677.6	-72.7	7.61	2.42%	2449	2482	2506	2525	2528	2528	Aerial
2706	2528.8	-45.6	4.33	44.09%	2500	2504	2507	2509	2514	2518	ILS Protected Area Bollard
2708	2556.2	-45.6	4.37	1.33%	2521	2526	2528	2528	2528	2528	ILS Protected Area Bollard
2714	2551.3	44.9	4.47	2.04%	2512	2517	2521	2524	2528	2528	ILS Protected Area Bollard
2716	2528.2	44.7	4.38	208.48%	2496	2501	2504	2507	2512	2517	ILS Protected Area Bollard
2718	2528.8	74.7	4.22	28.75%	2506	2509	2512	2513	2517	2520	ILS Protected Area Bollard
4340	2544.5	-12.0	4.40	2.43%	2510	2515	2518	2521	2526	2528	HIAL
4342	2544.5	0.0	4.40	2.43%	2510	2515	2518	2521	2526	2528	HIAL
4344	2544.5	12.0	4.40	2.43%	2510	2515	2518	2521	2526	2528	HIAL
4346	2573.4	-12.0	4.88	1.93%	2509	2518	2524	2528	2528	2528	HIAL
4348	2573.4	0.0	4.88	1.94%	2509	2518	2524	2528	2528	2528	HIAL
4350	2573.4	12.0	4.88	1.93%	2509	2518	2524	2528	2528	2528	HIAL
4352	2602.3	-12.0	5.36	1.83%	2508	2521	2528	2528	2528	2528	HIAL
4354	2602.3	0.0	5.36	1.83%	2508	2521	2528	2528	2528	2528	HIAL
4356	2602.3	12.0	5.36	1.83%	2508	2521	2528	2528	2528	2528	HIAL
4358	2631.1	-12.0	5.83	1.78%	2507	2524	2528	2528	2528	2528	HIAL
4360	2631.0	0.0	5.83	1.78%	2507	2524	2528	2528	2528	2528	HIAL
4362	2631.1	12.0	5.83	1.78%	2507	2524	2528	2528	2528	2528	HIAL
4364	2659.9	-12.0	6.33	1.77%	2505	2527	2528	2528	2528	2528	HIAL
4366	2659.9	0.0	6.33	1.77%	2505	2527	2528	2528	2528	2528	HIAL
4368	2659.9	12.0	6.33	1.77%	2505	2527	2528	2528	2528	2528	HIAL
4370	2689.0	-15.0	6.82	1.75%	2504	2528	2528	2528	2528	2528	HIAL
4372	2688.6	0.0	7.06	1.91%	2490	2518	2528	2528	2528	2528	HIAL
4374	2688.9	15.0	6.81	1.75%	2505	2528	2528	2528	2528	2528	HIAL
4376	2710.0	0.0	7.35	1.84%	2493	2523	2528	2528	2528	2528	RWY 34R Localiser Far Field Centreline Monitor Antenna
4378	2717.8	0.0	7.57	1.88%	2488	2520	2528	2528	2528	2528	Post
4380	2709.9	59.8	6.86	1.57%	2520	2528	2528	2528	2528	2528	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna
4738	2746.5	0.1	7.55	1.63%	2514	2528	2528	2528	2528	2528	HIAL

* Obstacle excluded from critical calculations.

Sydney Airport

2019 STODAs (Mar 2020)

Runway 16R

Obstacle Database: 200219

Summary of STODAs											
Max Grade		1.60%		1.90%		2.20%		2.50%		3.33%	
ID	Grade	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
1267	2.35%	1267	3954	1267	4000	1267	4035	-	4053	-	4053

Worst STODAs											
1.60%		1.90%		2.20%		2.50%		3.33%		5.00%	
ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
1267	3954	1267	4000	1267	4035	-	4053	-	4053	-	4053
2426	3964	2426	4007	2426	4039	-	4053	-	4053	-	4053
1513	3967	1513	4011	1513	4043	-	4053	-	4053	-	4053
1531	3981	1531	4024	-	4053	-	4053	-	4053	-	4053
1535	3984	1535	4027	-	4053	-	4053	-	4053	-	4053
1533	3990	1533	4031	-	4053	-	4053	-	4053	-	4053
2812	3998	2812	4039	-	4053	-	4053	-	4053	-	4053
2216	4018	2758	4046	-	4053	-	4053	-	4053	-	4053
1539	4021	2760	4047	-	4053	-	4053	-	4053	-	4053
2218	4033	2756	4047	-	4053	-	4053	-	4053	-	4053

Worst		Grades					
ID	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
1267	2.35%	3954	4000	4035	4053	4053	4053
2426	2.32%	3964	4007	4039	4053	4053	4053
1513	2.26%	3967	4011	4043	4053	4053	4053
1531	2.13%	3981	4024	4053	4053	4053	4053
1535	2.10%	3984	4027	4053	4053	4053	4053
1533	2.07%	3990	4031	4053	4053	4053	4053
2812	1.98%	3998	4039	4053	4053	4053	4053
2758	1.96%	4036	4046	4053	4053	4053	4053
2760	1.92%	4037	4047	4053	4053	4053	4053
2756	1.91%	4037	4047	4053	4053	4053	4053

ID	Ch	OS	RL	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%	Description
1267	4263.7	93.2	9.23	2.35%	3954	4000	4035	4053	4053	4053	Aerial
1511	4222.6	109.5	7.13	1.68%	4040	4053	4053	4053	4053	4053	Noise Mon. Aerial
1513	4258.7	103.2	8.92	2.26%	3967	4011	4043	4053	4053	4053	Camera on roof
1515	4157.6	0.1	5.99	1.63%	4045	4053	4053	4053	4053	4053	Antenna
1531	4260.8	102.8	8.70	2.13%	3981	4024	4053	4053	4053	4053	Lightning Conductor on Roof
1533	4256.7	107.7	8.49	2.07%	3990	4031	4053	4053	4053	4053	Sewer Vent
1535	4261.3	94.5	8.66	2.10%	3984	4027	4053	4053	4053	4053	Aerial - Wall Mounted
1539	4252.4	102.3	7.92	1.83%	4021	4053	4053	4053	4053	4053	Apex of G.I. Roof
2216	4280.4	0.0	8.41	1.81%	4018	4053	4053	4053	4053	4053	Far field monitor mast
2218	4280.3	57.6	8.16	1.71%	4033	4053	4053	4053	4053	4053	Far field monitor mast
2426	4246.8	110.9	8.77	2.32%	3964	4007	4039	4053	4053	4053	Exhaust atop LLER Building
2730	4052.6	77.9	4.39	165.93%	4040	4042	4043	4044	4046	4048	ILS Protected Area Bollard
2738	4053.1	-46.3	4.50	35.17%	4035	4038	4040	4041	4044	4046	ILS Protected Area Bollard
2750	4080.6	12.0	5.04	2.75%	4028	4036	4042	4046	4053	4053	34L HIAL
2752	4080.6	0.1	5.07	2.86%	4027	4035	4041	4045	4053	4053	34L HIAL
2754	4080.6	-11.9	5.08	2.89%	4026	4034	4040	4044	4052	4053	34L HIAL
2756	4110.1	12.1	5.37	1.91%	4037	4047	4053	4053	4053	4053	34L HIAL
2758	4110.1	0.1	5.40	1.96%	4036	4046	4053	4053	4053	4053	34L HIAL
2760	4110.1	-12.0	5.38	1.92%	4037	4047	4053	4053	4053	4053	34L HIAL
2762	4139.6	12.0	5.75	1.70%	4042	4053	4053	4053	4053	4053	34L HIAL
2764	4139.6	0.1	5.78	1.73%	4041	4053	4053	4053	4053	4053	34L HIAL
2766	4139.6	-12.0	5.76	1.71%	4042	4053	4053	4053	4053	4053	34L HIAL
2768	4169.0	12.1	6.06	1.54%	4050	4053	4053	4053	4053	4053	34L HIAL
2770	4169.0	0.1	6.06	1.53%	4050	4053	4053	4053	4053	4053	34L HIAL
2772	4168.9	-11.9	6.07	1.54%	4050	4053	4053	4053	4053	4053	34L HIAL
2774	4198.4	12.1	6.40	1.46%	4053	4053	4053	4053	4053	4053	34L HIAL
2776	4198.4	0.1	6.43	1.48%	4053	4053	4053	4053	4053	4053	34L HIAL
2778	4198.5	-12.0	6.44	1.49%	4053	4053	4053	4053	4053	4053	34L HIAL
2780	4227.9	12.1	6.80	1.44%	4053	4053	4053	4053	4053	4053	34L HIAL
2782	4227.9	0.1	6.82	1.45%	4053	4053	4053	4053	4053	4053	34L HIAL
2784	4227.9	-11.9	6.81	1.45%	4053	4053	4053	4053	4053	4053	34L HIAL
2786	4257.5	15.0	7.16	1.41%	4053	4053	4053	4053	4053	4053	34L HIAL
2788	4257.0	0.1	7.44	1.55%	4052	4053	4053	4053	4053	4053	34L HIAL
2790	4257.5	-14.9	7.17	1.41%	4053	4053	4053	4053	4053	4053	34L HIAL
2792	4287.1	0.2	7.86	1.53%	4053	4053	4053	4053	4053	4053	34L HIAL
2794	4317.1	0.2	8.38	1.55%	4053	4053	4053	4053	4053	4053	34L HIAL
2796	4347.6	0.0	8.54	1.45%	4053	4053	4053	4053	4053	4053	34L HIAL
2798	4377.2	0.1	8.55	1.32%	4053	4053	4053	4053	4053	4053	34L HIAL
2808	4342.3	0.3	7.88	1.25%	4053	4053	4053	4053	4053	4053	Guardrail
2810	4342.3	-0.3	7.88	1.24%	4053	4053	4053	4053	4053	4053	Guardrail
2812	4267.7	96.4	8.54	1.98%	3998	4039	4053	4053	4053	4053	RADAR Video Surveillance Camera (lightning rod)
4836	4356.7	-52.9	8.25	1.31%	4053	4053	4053	4053	4053	4053	Shrub atop rockwall at southern end of RWY 16R/34L

* Obstacle excluded from critical calculations.

Sydney Airport
2019 STODAs (Mar 2020)
Runway 25
Obstacle Database: 200219

Summary of STODAs											
Max Grade	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%					
ID Grade	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)					
1787 16.64%	2882 796	2053 1939	1787 2457	1787 2479	1787 2514	1787 2552					

Worst STODAs											
1.60%	1.90%	2.20%	2.50%	3.33%	5.00%						
ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID Length (m)	ID	Length (m)				
2882 796	2053 1939	1787 2457	1787 2479	1787 2514	1787 2552	1787					
2179 1139	2179 1953	1670 2489	1670 2511	1670 2562	-	-	2590				
2053 1208	2882 2006	5438 2507	1702 2558	-	2590	-	2590				
3945 1426	2869 2263	3993 2511	1700 2561	-	2590	-	2590				
4827 1499	324 2341	1702 2516	2841 2571	-	2590	-	2590				
2869 1623	2039 2347	1700 2517	-	2590	-	2590	2590				
2875 1643	1785 2358	2053 2521	-	2590	-	2590	2590				
2293 1669	9541 2362	2841 2528	-	2590	-	2590	2590				
2039 1671	3993 2366	5436 2558	-	2590	-	2590	2590				
1785 1685	3177 2397	-	2590	-	2590	-	2590				

Worst		Grades					
ID	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
1787	16.64%	2381	2426	2457	2479	2514	2552
1670	4.22%	2408	2457	2489	2511	2562	2590
2841	2.76%	2464	2504	2528	2571	2590	2590
1702	2.74%	2422	2479	2516	2558	2590	2590
1700	2.72%	2424	2481	2517	2561	2590	2590
5438	2.39%	2283	2411	2507	2590	2590	2590
5436	2.33%	2451	2505	2558	2590	2590	2590
3993	2.30%	2181	2366	2511	2590	2590	2590
2053	2.21%	1208	1939	2521	2590	2590	2590
2179	2.17%	1139	1953	2590	2590	2590	2590

ID	Ch	OS	RL	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%	Description
318	4867.1	-232.7	47.00	1.80%	2160	2590	2590	2590	2590	2590	Vent
320	4719.4	-156.2	39.10	1.56%	2590	2590	2590	2590	2590	2590	Tree
322	5259.9	-386.4	54.87	1.83%	2060	2590	2590	2590	2590	2590	Antenna
324	5021.0	267.1	55.00	2.02%	1808	2341	2590	2590	2590	2590	Tree
328	5953.4	354.6	65.88	1.78%	2065	2590	2590	2590	2590	2590	Vent
338	8565.0	-731.6	102.92	1.62%	2400	2590	2590	2590	2590	2590	Building
442	8684.4	-620.4	93.90	1.44%	2590	2590	2590	2590	2590	2590	White Vent
448	6515.3	93.7	74.80	1.75%	2070	2590	2590	2590	2590	2590	Gum
458	4844.5	-275.0	49.10	1.92%	2004	2514	2590	2590	2590	2590	Building
460	6004.9	-89.7	62.27	1.65%	2373	2590	2590	2590	2590	2590	Gum
462	6165.0	-276.5	55.67	1.39%	2590	2590	2590	2590	2590	2590	Tree
466	6119.4	-276.9	56.96	1.45%	2590	2590	2590	2590	2590	2590	Tree
586	2590.9	-58.8	6.31	861.92%	2492	2512	2526	2542	2567	2579	Gable Marker
652	4859.5	-200.8	48.00	1.85%	2089	2590	2590	2590	2590	2590	Vent atop block of Units
706	3851.1	-108.4	28.25	1.77%	2340	2590	2590	2590	2590	2590	Norfolk Tree
722	5042.6	-356.5	48.56	1.74%	2247	2590	2590	2590	2590	2590	Aerial atop apartment block
728	6007.1	227.4	69.71	1.87%	1876	2590	2590	2590	2590	2590	Gum Tree
730	6276.5	-243.1	53.43	1.29%	2590	2590	2590	2590	2590	2590	Aerial
732	7663.2	-517.0	88.34	1.62%	2414	2590	2590	2590	2590	2590	Gum Tree
734	7757.5	-556.5	79.55	1.42%	2590	2590	2590	2590	2590	2590	Gum Tree
1180	5945.6	448.4	56.03	1.49%	2590	2590	2590	2590	2590	2590	Obstruction Light atop apartment block (lit)
1224	5837.1	468.2	59.82	1.66%	2355	2590	2590	2590	2590	2590	MAST/PYLON
1227	5830.3	490.0	65.45	1.84%	1967	2590	2590	2590	2590	2590	MAST/PYLON
1658	2704.6	43.3	7.50	1.37%	2590	2590	2590	2590	2590	2590	RWY 25 RESA Northern Concrete Safety Barrier
1670	2640.6	-50.2	8.04	4.22%	2408	2457	2489	2511	2562	2590	RWY 25 RESA Southern Safety Barrier (Western End)
1700	2691.7	-19.3	8.68	2.72%	2424	2481	2517	2561	2590	2590	RWY 25 Localiser southern Obstruction Light (lit)
1702	2691.7	19.3	8.70	2.74%	2422	2479	2516	2558	2590	2590	RWY 25 Localiser northern Obstruction Light (lit)
1707	4886.5	-263.1	51.30	1.98%	1906	2416	2590	2590	2590	2590	Aerial atop building
1709	3048.5	87.6	12.70	1.48%	2590	2590	2590	2590	2590	2590	Flood Light
1710	3077.2	98.2	12.78	1.41%	2590	2590	2590	2590	2590	2590	Flood Light
1713	2680.0	43.4	7.22	1.44%	2590	2590	2590	2590	2590	2590	RWY 25 RESA Northern Concrete Safety Barrier
1784	4878.5	-316.6	50.64	1.95%	1940	2451	2590	2590	2590	2590	Satellite dish atop building
1785	5741.4	421.0	68.41	1.98%	1685	2358	2590	2590	2590	2590	Tree
1787	2601.6	-51.0	7.72	16.64%	2381	2426	2457	2479	2514	2552	Railing (lit)
1789	2680.5	45.0	7.73	2.00%	2493	2536	2590	2590	2590	2590	Railing
1814	4378.0	-116.3	39.11	1.86%	2164	2590	2590	2590	2590	2590	Palm Tree
1815	4380.2	-136.9	37.96	1.79%	2248	2590	2590	2590	2590	2590	Palm Tree
1816	4377.2	-53.0	34.76	1.61%	2503	2590	2590	2590	2590	2590	BLDG
1817	4422.1	3.4	38.10	1.76%	2287	2590	2590	2590	2590	2590	BLDG
1818	6546.0	190.2	75.00	1.75%	2088	2590	2590	2590	2590	2590	TREE
1968	5464.2	416.6	55.65	1.73%	2222	2590	2590	2590	2590	2590	Tree
1975	6578.3	515.0	70.54	1.62%	2452	2590	2590	2590	2590	2590	Tree
1977	8081.0	124.3	77.22	1.30%	2590	2590	2590	2590	2590	2590	North Folk Pine tree
1978	7428.9	145.2	73.82	1.40%	2590	2590	2590	2590	2590	2590	Tree
1979	7390.4	170.2	74.71	1.43%	2590	2590	2590	2590	2590	2590	Tree
1981	7285.9	-141.3	75.15	1.47%	2590	2590	2590	2590	2590	2590	Tree
1982	7515.2	-276.1	84.38	1.59%	2590	2590	2590	2590	2590	2590	Tree
2000	7472.8	-272.4	73.19	1.38%	2590	2590	2590	2590	2590	2590	Apex of roof
2015	6670.5	486.9	67.00	1.50%	2590	2590	2590	2590	2590	2590	Pine Tree
2017	6649.1	367.6	73.00	1.65%	2342	2590	2590	2590	2590	2590	Pine Tree
2019	6712.8	347.1	70.70	1.57%	2590	2590	2590	2590	2590	2590	Pine Tree

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2023	6683.1	92.7	63.00	1.39%	2590	2590	2590	2590	2590	2590	Tile Roof
2027	6763.2	328.9	66.34	1.45%	2590	2590	2590	2590	2590	2590	Gum Tree
2029	6779.5	323.4	65.00	1.41%	2590	2590	2590	2590	2590	2590	Pine Tree
2031	6781.2	259.1	63.70	1.38%	2590	2590	2590	2590	2590	2590	Elec Pole with OH trans
2039	5752.7	202.1	68.80	1.99%	1671	2347	2590	2590	2590	2590	Norfolk Pine Tree
2041	5751.5	195.5	66.70	1.92%	1807	2489	2590	2590	2590	2590	Norfolk Pine Tree
2052	5610.5	373.4	55.10	1.63%	2448	2590	2590	2590	2590	2590	Apex of house
2053	5800.5	466.7	77.00	2.21%	1208	1939	2521	2590	2590	2590	Norfolk Pine Tree
2061	5880.1	425.8	61.50	1.69%	2282	2590	2590	2590	2590	2590	Building
2067	5795.7	460.6	61.90	1.75%	2157	2590	2590	2590	2590	2590	School - N end Building
2069	5771.8	408.5	61.90	1.76%	2133	2590	2590	2590	2590	2590	School - S end Building
2071	5714.7	269.0	59.80	1.72%	2212	2590	2590	2590	2590	2590	Building
2075	6022.5	127.3	62.40	1.65%	2385	2590	2590	2590	2590	2590	White Gable on Tile Roof
2077	6068.7	195.9	61.80	1.61%	2506	2590	2590	2590	2590	2590	Church Bell Tower
2079	5897.0	409.6	61.50	1.68%	2302	2590	2590	2590	2590	2590	Sewer Vent
2095	6223.4	113.5	64.10	1.60%	2521	2590	2590	2590	2590	2590	Conc. edge of roof
2097	6231.0	133.6	64.10	1.60%	2590	2590	2590	2590	2590	2590	Conc. edge of roof
2101	6337.1	286.9	77.00	1.90%	1744	2590	2590	2590	2590	2590	Church Spire
2105	6587.5	66.9	68.30	1.56%	2590	2590	2590	2590	2590	2590	Sewer Vent
2109	6731.5	-177.9	61.00	1.33%	2590	2590	2590	2590	2590	2590	Sewer Vent
2111	6807.0	-68.4	62.60	1.34%	2590	2590	2590	2590	2590	2590	Elec Pole
2113	6804.8	-12.6	62.80	1.35%	2590	2590	2590	2590	2590	2590	El and Lt Pole
2115	6795.9	6.6	61.60	1.32%	2590	2590	2590	2590	2590	2590	Elec Pole
2117	6737.8	77.8	62.20	1.36%	2590	2590	2590	2590	2590	2590	Elec Pole
2119	6710.6	91.6	64.30	1.42%	2590	2590	2590	2590	2590	2590	El and Lt Pole
2121	6620.9	105.2	65.40	1.48%	2590	2590	2590	2590	2590	2590	Elec Pole no light
2123	6579.1	94.6	66.10	1.51%	2590	2590	2590	2590	2590	2590	Elec Pole
2125	6419.6	93.4	69.60	1.66%	2321	2590	2590	2590	2590	2590	El and Lt Pole
2127	6456.6	81.6	73.50	1.75%	2092	2590	2590	2590	2590	2590	El and Lt Pole
2129	6484.5	72.3	71.20	1.68%	2280	2590	2590	2590	2590	2590	El and Lt Pole
2131	6506.5	65.4	70.80	1.66%	2335	2590	2590	2590	2590	2590	Elec Pole
2133	6535.9	54.4	68.40	1.58%	2590	2590	2590	2590	2590	2590	El and Lt Pole
2135	6565.3	43.5	67.00	1.54%	2590	2590	2590	2590	2590	2590	Elec Pole
2137	6544.5	77.9	67.90	1.57%	2590	2590	2590	2590	2590	2590	El and Lt Pole
2139	6662.5	-11.8	62.20	1.38%	2590	2590	2590	2590	2590	2590	Elec Pole
2141	6688.5	-53.0	59.80	1.31%	2590	2590	2590	2590	2590	2590	Elec Pole
2143	6712.7	-91.7	57.80	1.26%	2590	2590	2590	2590	2590	2590	Elec Pole
2145	6766.0	-178.0	61.50	1.33%	2590	2590	2590	2590	2590	2590	Elec Pole
2147	6647.4	13.9	64.60	1.45%	2590	2590	2590	2590	2590	2590	Elec Pole
2149	6736.3	-131.6	60.40	1.31%	2590	2590	2590	2590	2590	2590	Elec Pole
2151	6666.3	-311.5	58.10	1.28%	2590	2590	2590	2590	2590	2590	Elec Pole with Transformer
2153	6686.5	-257.3	58.90	1.29%	2590	2590	2590	2590	2590	2590	Elec Pole
2155	6710.6	-188.4	59.50	1.30%	2590	2590	2590	2590	2590	2590	Elec Pole
2157	6783.5	-208.2	61.80	1.33%	2590	2590	2590	2590	2590	2590	Elec Pole
2159	6688.9	353.5	64.60	1.43%	2590	2590	2590	2590	2590	2590	Pine Tree
2165	5312.3	-44.9	58.00	1.91%	1914	2513	2590	2590	2590	2590	Pine Tree
2167	5373.9	65.7	53.60	1.71%	2267	2590	2590	2590	2590	2590	Sewer Vent
2169	5361.4	82.8	53.10	1.70%	2289	2590	2590	2590	2590	2590	Sewer Vent
2179	6261.2	139.7	85.50	2.17%	1139	1953	2590	2590	2590	2590	Norfolk Pine Tree
2183	5769.0	-283.9	56.78	1.60%	2590	2590	2590	2590	2590	2590	Palm Tree
2185	3435.8	-83.4	22.20	1.92%	2296	2524	2590	2590	2590	2590	Flood Light Pole
2233	3337.4	-113.5	20.20	1.91%	2327	2542	2590	2590	2590	2590	Flood Light Pole
2235	3951.1	-186.1	23.40	1.28%	2590	2590	2590	2590	2590	2590	Elec Pole + Light
2239	4329.4	179.3	27.01	1.21%	2590	2590	2590	2590	2590	2590	Elec Pole
2243	4379.0	201.7	30.03	1.35%	2590	2590	2590	2590	2590	2590	Elec Pole
2247	4442.8	-9.6	39.02	1.79%	2243	2590	2590	2590	2590	2590	Elec Pole
2249	4458.9	53.0	43.08	1.99%	1994	2422	2590	2590	2590	2590	Sewer Vent
2252	6501.1	231.0	76.10	1.79%	1973	2590	2590	2590	2590	2590	Tree at front of property
2253	4783.0	-341.6	45.28	1.79%	2184	2590	2590	2590	2590	2590	Sewer Vent
2255	5219.0	-54.5	49.33	1.65%	2405	2590	2590	2590	2590	2590	Building
2256	6432.2	182.2	71.75	1.71%	2179	2590	2590	2590	2590	2590	Tree at rear of property
2257	5248.8	-64.1	49.48	1.64%	2433	2590	2590	2590	2590	2590	Building
2258	6495.3	261.8	63.49	1.47%	2590	2590	2590	2590	2590	2590	roof
2259	5271.0	50.3	49.70	1.63%	2445	2590	2590	2590	2590	2590	Sewer Vent
2260	6306.7	300.0	71.21	1.76%	2086	2590	2590	2590	2590	2590	Tree at rear of property
2261	5297.0	-86.8	50.72	1.65%	2392	2590	2590	2590	2590	2590	Pole
2262	6439.4	302.8	65.43	1.55%	2590	2590	2590	2590	2590	2590	Tree
2264	6315.0	220.0	65.96	1.61%	2485	2590	2590	2590	2590	2590	Tree at front of property
2266	6317.0	204.8	67.23	1.65%	2376	2590	2590	2590	2590	2590	Tree at front of property
2268	6305.5	201.1	65.92	1.61%	2475	2590	2590	2590	2590	2590	Tree at front of property
2270	6593.9	550.8	67.53	1.54%	2590	2590	2590	2590	2590	2590	Tree at rear of property
2271	6670.8	162.8	71.76	1.61%	2476	2590	2590	2590	2590	2590	Tree at rear of property
2275	7174.3	-640.6	86.14	1.75%	2019	2590	2590	2590	2590	2590	Norfolk Pine Tree
2277	7427.7	-293.4	80.00	1.53%	2590	2590	2590	2590	2590	2590	Elec Pole
2279	3265.2	127.4	15.65	1.44%	2590	2590	2590	2590	2590	2590	Floodlight
2283	7591.4	-679.6	79.47	1.47%	2590	2590	2590	2590	2590	2590	Cross on Church
2284	7495.1	-341.3	81.50	1.54%	2590	2590	2590	2590	2590	2590	Tree
2285	7594.8	-628.4	80.18	1.48%	2590	2590	2590	2590	2590	2590	Antenna
2287	7614.3	-712.3	79.30	1.46%	2590	2590	2590	2590	2590	2590	El and Lt Pole
2290	3887.0	-72.5	23.89	1.39%	2590	2590	2590	2590	2590	2590	Fir Tree
2293	9126.1	-456.4	122.82	1.79%	1669	2590	2590	2590	2590	2590	Antenna atop tile roofed flats
2297	8637.1	-647.2	90.03	1.39%	2590	2590	2590	2590	2590	2590	Tan Brick Building
2299	8732.8	-743.1	108.50	1.67%	2183	2590	2590	2590	2590	2590	Radio Mast
2301	8734.2	-743.2	96.58	1.48%	2590	2590	2590	2590	2590	2590	Building
2302	8747.8	-631.0	106.14	1.63%	2374	2590	2590	2590	2590	2590	Apartment Block
2304	2681.4	63.4	7.05	1.23%	2590	2590	2590	2590	2590	2590	Railing

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2305	8677.9	-567.4	93.33	1.44%	2590	2590	2590	2590	2590	2590	TV Antenna atop brick building
2309	8543.3	-746.0	96.60	1.52%	2590	2590	2590	2590	2590	2590	Mast/Pylon atop building
2315	6672.8	359.3	66.30	1.48%	2590	2590	2590	2590	2590	2590	Stringy Bark Tree
2317	9104.7	-507.4	92.20	1.32%	2590	2590	2590	2590	2590	2590	Block of Flats
2319	9275.8	-483.9	119.37	1.70%	2044	2590	2590	2590	2590	2590	Antenna atop building
2323	9335.6	-640.2	96.80	1.35%	2590	2590	2590	2590	2590	2590	Norfolk Pine Tree
2325	9615.7	-671.6	96.50	1.29%	2590	2590	2590	2590	2590	2590	Trig
2327	9608.2	-667.5	94.30	1.26%	2590	2590	2590	2590	2590	2590	Reservoir
2329	9669.6	-687.6	98.90	1.31%	2590	2590	2590	2590	2590	2590	Antenna
2331	9677.1	-691.6	93.90	1.24%	2590	2590	2590	2590	2590	2590	Reservoir
2341	5764.0	237.8	63.61	1.82%	2016	2590	2590	2590	2590	2590	Gum Tree
2345	5616.5	206.9	56.40	1.67%	2347	2590	2590	2590	2590	2590	Elec Pole
2347	5573.9	223.3	55.40	1.66%	2371	2590	2590	2590	2590	2590	Elec Pole
2349	5657.8	450.3	60.70	1.79%	2094	2590	2590	2590	2590	2590	Elec Pole
2351	5642.8	410.2	58.50	1.72%	2222	2590	2590	2590	2590	2590	Elec Pole
2353	5617.7	341.0	57.50	1.70%	2267	2590	2590	2590	2590	2590	Elec Pole
2355	5591.0	270.3	57.80	1.73%	2213	2590	2590	2590	2590	2590	Elec Pole
2357	5630.8	256.2	57.90	1.71%	2253	2590	2590	2590	2590	2590	Sewer Vent
2363	5683.1	383.8	61.50	1.80%	2069	2590	2590	2590	2590	2590	Sewer Vent
2365	5677.5	353.9	61.80	1.81%	2044	2590	2590	2590	2590	2590	Sewer Vent
2371	2715.9	79.9	8.39	1.96%	2484	2542	2590	2590	2590	2590	Airside Fence
2373	2723.4	73.1	8.77	2.14%	2461	2516	2590	2590	2590	2590	Airside Fence (lit)
2411	7624.1	-649.8	86.32	1.60%	2590	2590	2590	2590	2590	2590	Gum Tree
2413	7621.8	-656.6	91.00	1.69%	2165	2590	2590	2590	2590	2590	Gum Tree
2415	3189.3	104.3	13.90	1.33%	2590	2590	2590	2590	2590	2590	Flood Light Pole
2451	3874.0	-86.0	22.16	1.26%	2590	2590	2590	2590	2590	2590	Elec Pole
2464	2593.9	-44.9	7.02	36.09%	2431	2466	2489	2504	2530	2562	Unserviceable red and white cone
2466	2599.6	-45.0	7.08	13.13%	2434	2469	2492	2508	2537	2569	Unserviceable red and white cone
2468	2602.4	-45.0	7.11	10.20%	2435	2471	2494	2510	2541	2572	Unserviceable red and white cone
2472	2595.2	46.3	6.17	5.43%	2510	2527	2558	2574	2584	2590	Bollard
2473	4374.5	-201.6	30.00	1.35%	2590	2590	2590	2590	2590	2590	Sewer Vent
2474	2624.6	46.4	6.82	2.61%	2495	2522	2559	2585	2590	2590	Bollard
2475	4224.2	120.3	32.06	1.60%	2590	2590	2590	2590	2590	2590	Gum Tree
2476	2652.1	46.4	7.12	1.93%	2507	2578	2590	2590	2590	2590	Bollard
2477	4415.0	154.7	36.20	1.66%	2428	2590	2590	2590	2590	2590	Sewer Vent
2479	4452.0	-4.7	42.95	1.99%	1995	2422	2590	2590	2590	2590	Pine Tree
2481	4461.1	-57.1	36.08	1.61%	2506	2590	2590	2590	2590	2590	El and Lt Pole (old pole + new Pole)
2483	4480.9	-167.7	34.73	1.52%	2590	2590	2590	2590	2590	2590	Sewer Vent
2487	4592.4	-226.3	39.93	1.70%	2353	2590	2590	2590	2590	2590	Sewer Vent
2489	4616.6	-137.0	33.48	1.36%	2590	2590	2590	2590	2590	2590	Sewer Vent
2491	4615.0	-226.8	41.04	1.73%	2298	2590	2590	2590	2590	2590	Sewer Vent
2493	4633.1	-262.1	37.84	1.56%	2590	2590	2590	2590	2590	2590	Elec Pole
2494	2975.8	94.1	14.10	2.12%	2351	2479	2590	2590	2590	2590	Tree
2496	3304.8	128.5	19.60	1.91%	2333	2534	2590	2590	2590	2590	Tree
2497	5667.0	-267.8	46.60	1.32%	2590	2590	2590	2590	2590	2590	Elec Pole
2498	3478.7	195.8	22.80	1.90%	2303	2590	2590	2590	2590	2590	Tree
2499	5630.2	-256.9	46.10	1.32%	2590	2590	2590	2590	2590	2590	Elec Pole
2500	4126.4	-210.0	31.55	1.67%	2430	2590	2590	2590	2590	2590	Tree
2501	5594.1	-227.1	48.30	1.41%	2590	2590	2590	2590	2590	2590	Mast/Pylon
2502	4245.1	-151.0	32.12	1.58%	2590	2590	2590	2590	2590	2590	Tree
2503	5567.0	-244.7	49.99	1.48%	2590	2590	2590	2590	2590	2590	Sewer Vent
2504	4441.8	-211.9	40.72	1.88%	2127	2590	2590	2590	2590	2590	Tree
2505	5583.2	-287.9	45.39	1.32%	2590	2590	2590	2590	2590	2590	Elec Pole
2506	4698.2	-225.6	43.76	1.79%	2196	2590	2590	2590	2590	2590	Tree
2509	5597.1	-244.0	47.50	1.38%	2590	2590	2590	2590	2590	2590	Elec Pole
2511	5331.3	-117.5	44.42	1.40%	2590	2590	2590	2590	2590	2590	TV Antenna
2517	5470.1	94.4	59.39	1.86%	1986	2590	2590	2590	2590	2590	Tree
2519	5450.8	77.5	55.20	1.72%	2239	2590	2590	2590	2590	2590	Sewer Vent
2595	3992.9	-238.9	24.54	1.33%	2590	2590	2590	2590	2590	2590	Elec Pole
2597	3971.2	-212.6	23.02	1.24%	2590	2590	2590	2590	2590	2590	Elec Pole
2609	6811.7	-159.9	65.40	1.41%	2590	2590	2590	2590	2590	2590	Pine Tree
2613	6801.5	-243.5	62.40	1.34%	2590	2590	2590	2590	2590	2590	Elec Pole
2617	5817.8	371.5	61.52	1.72%	2207	2590	2590	2590	2590	2590	Elec Pole
2841	2648.5	71.3	7.53	2.76%	2464	2504	2528	2571	2590	2590	Aerial atop Localiser Power Shed
2861	3693.4	205.1	20.85	1.35%	2590	2590	2590	2590	2590	2590	Needle Pine
2868	5591.0	411.4	61.56	1.85%	1971	2590	2590	2590	2590	2590	Gum Tree
2869	5558.5	441.0	66.50	2.04%	1623	2263	2590	2590	2590	2590	Norfolk Island Pine
2870	5584.3	308.7	54.74	1.63%	2442	2590	2590	2590	2590	2590	Chimney
2871	5590.1	301.2	55.73	1.66%	2365	2590	2590	2590	2590	2590	Chimney
2872	5769.7	306.4	64.00	1.83%	1998	2590	2590	2590	2590	2590	Gum Tree
2875	8605.7	-752.2	114.93	1.81%	1643	2590	2590	2590	2590	2590	Lightning Rod
2882	8448.2	-820.8	126.06	2.05%	796	2006	2590	2590	2590	2590	Aerial NE Side Park Plaza Units
2884	3333.5	168.7	16.60	1.44%	2590	2590	2590	2590	2590	2590	Sporting field flood light
3039	8585.8	-580.5	100.00	1.57%	2590	2590	2590	2590	2590	2590	Orange wall atop building
3040	2593.1	-44.7	6.57	29.08%	2471	2498	2514	2525	2555	2574	Concrete pavement (RESA)
3042	2698.7	-18.4	7.24	1.21%	2590	2590	2590	2590	2590	2590	Concrete pavement (RESA)
3046	3016.8	-100.1	14.72	2.06%	2354	2490	2590	2590	2590	2590	Tree
3051	3323.7	94.2	21.18	2.08%	2238	2445	2590	2590	2590	2590	Tree
3053	4001.0	-210.9	25.69	1.40%	2590	2590	2590	2590	2590	2590	Tree
3054	4552.3	-245.6	40.62	1.77%	2254	2590	2590	2590	2590	2590	Tree
3177	4460.8	-16.9	43.48	2.01%	1971	2397	2590	2590	2590	2590	Tree
3180	4476.1	-54.5	42.64	1.95%	2040	2476	2590	2590	2590	2590	Tree
3203	6025.4	-65.8	52.80	1.36%	2590	2590	2590	2590	2590	2590	Building
3208	6892.2	-262.4	70.92	1.51%	2590	2590	2590	2590	2590	2590	Tree
3209	6870.2	-250.4	70.48	1.51%	2590	2590	2590	2590	2590	2590	Tree
3210	6850.7	-166.8	69.89	1.50%	2590	2590	2590	2590	2590	2590	Tree

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3213	6654.9	-299.9	56.25	1.24%	2590	2590	2590	2590	2590	2590	Tree
3216	6681.8	493.7	64.13	1.42%	2590	2590	2590	2590	2590	2590	Tree
3217	6624.6	410.1	65.25	1.47%	2590	2590	2590	2590	2590	2590	Tree
3218	6528.2	313.3	71.24	1.66%	2329	2590	2590	2590	2590	2590	Tree
3219	6480.2	170.1	71.87	1.70%	2225	2590	2590	2590	2590	2590	Tree
3221	6605.6	136.6	70.46	1.61%	2500	2590	2590	2590	2590	2590	Tree
3222	6567.5	6.2	70.53	1.62%	2437	2590	2590	2590	2590	2590	Tree
3223	6505.5	23.1	70.95	1.66%	2323	2590	2590	2590	2590	2590	Tree
3224	6509.5	33.8	70.80	1.66%	2339	2590	2590	2590	2590	2590	Tree
3225	6414.7	11.9	66.35	1.58%	2590	2590	2590	2590	2590	2590	Tree
3226	6417.9	23.6	65.81	1.56%	2590	2590	2590	2590	2590	2590	Tree
3227	6570.7	-7.1	68.46	1.57%	2590	2590	2590	2590	2590	2590	Tree
3228	6448.0	-92.8	66.81	1.58%	2590	2590	2590	2590	2590	2590	Tree
3233	6388.8	406.1	66.57	1.60%	2590	2590	2590	2590	2590	2590	Tree
3235	6233.0	286.5	64.73	1.61%	2478	2590	2590	2590	2590	2590	Tree
3236	6219.2	264.7	61.32	1.53%	2590	2590	2590	2590	2590	2590	Tree
3237	6292.8	219.3	64.62	1.59%	2590	2590	2590	2590	2590	2590	Tree
3238	6268.8	233.4	64.57	1.59%	2590	2590	2590	2590	2590	2590	Tree
3239	6260.6	240.6	62.75	1.55%	2590	2590	2590	2590	2590	2590	Tree
3240	6245.1	214.8	63.13	1.57%	2590	2590	2590	2590	2590	2590	Tree
3241	6451.4	171.6	71.10	1.69%	2247	2590	2590	2590	2590	2590	Tree
3245	6217.3	-137.8	62.13	1.55%	2590	2590	2590	2590	2590	2590	Tree
3247	6126.7	282.6	65.02	1.67%	2313	2590	2590	2590	2590	2590	Tree
3260	6091.8	443.5	65.56	1.70%	2231	2590	2590	2590	2590	2590	Tree
3261	6045.0	478.5	63.46	1.67%	2333	2590	2590	2590	2590	2590	Tree
3262	6122.5	89.3	70.24	1.82%	1960	2590	2590	2590	2590	2590	Tree
3263	5991.6	-396.3	54.27	1.42%	2590	2590	2590	2590	2590	2590	Tree
3266	5899.5	308.9	65.96	1.81%	2006	2590	2590	2590	2590	2590	Tree
3274	5761.1	-59.9	61.07	1.74%	2175	2590	2590	2590	2590	2590	Tree
3280	5471.5	-10.7	57.51	1.79%	2107	2590	2590	2590	2590	2590	Tree
3286	6618.5	282.9	61.97	1.39%	2590	2590	2590	2590	2590	2590	Building
3289	6048.7	310.9	59.54	1.55%	2590	2590	2590	2590	2590	2590	Building
3290	6152.3	50.2	67.25	1.72%	2180	2590	2590	2590	2590	2590	Building
3291	6160.4	73.3	67.18	1.72%	2194	2590	2590	2590	2590	2590	Building
3353	5695.8	356.8	64.19	1.88%	1910	2590	2590	2590	2590	2590	Tree
3354	6214.2	16.5	71.59	1.81%	1967	2590	2590	2590	2590	2590	Tree
3355	6095.4	63.3	66.66	1.73%	2160	2590	2590	2590	2590	2590	Tree
3356	6072.1	168.4	66.75	1.75%	2130	2590	2590	2590	2590	2590	Tree
3361	2690.6	58.4	7.61	1.67%	2518	2590	2590	2590	2590	2590	Water stop valve
3674	5488.1	375.2	55.84	1.72%	2236	2590	2590	2590	2590	2590	Tree
3676	5542.4	281.7	57.50	1.75%	2179	2590	2590	2590	2590	2590	Tree
3874	6702.0	257.6	66.41	1.47%	2590	2590	2590	2590	2590	2590	Tree
3876	6639.0	253.2	65.09	1.46%	2590	2590	2590	2590	2590	2590	Tree
3878	6601.2	440.1	67.76	1.54%	2590	2590	2590	2590	2590	2590	Tree
3880	6570.3	451.4	69.07	1.59%	2590	2590	2590	2590	2590	2590	Tree
3882	6595.2	414.3	65.58	1.49%	2590	2590	2590	2590	2590	2590	Tree
3884	6462.6	548.5	65.96	1.55%	2590	2590	2590	2590	2590	2590	Tree
3915	5870.8	425.2	65.57	1.82%	2001	2590	2590	2590	2590	2590	AERIAL atop unit block
3917	5848.3	368.7	63.79	1.78%	2091	2590	2590	2590	2590	2590	AERIAL atop unit block
3919	5825.0	276.4	62.28	1.74%	2163	2590	2590	2590	2590	2590	AIR CONDITIONING DUCT atop unit block
3940	6583.6	211.8	64.48	1.47%	2590	2590	2590	2590	2590	2590	Building
3945	8613.8	-802.4	118.63	1.87%	1426	2590	2590	2590	2590	2590	Building
3993	3205.5	45.2	20.09	2.30%	2181	2366	2511	2590	2590	2590	TREE
3994	4404.4	-22.2	39.19	1.83%	2186	2590	2590	2590	2590	2590	Palm Tree
3999	8710.6	-720.1	113.10	1.75%	1867	2590	2590	2590	2590	2590	Apartments
4392	2933.4	-66.8	13.15	2.11%	2371	2489	2590	2590	2590	2590	Tree
4394	2951.4	68.4	12.75	1.89%	2430	2590	2590	2590	2590	2590	Tree
4398	2957.3	27.7	13.30	2.01%	2390	2510	2590	2590	2590	2590	Tree
4400	2971.7	56.9	13.03	1.86%	2434	2590	2590	2590	2590	2590	Pole
4402	3071.3	76.4	15.71	2.03%	2345	2493	2590	2590	2590	2590	Tree
4404	3189.3	49.3	17.87	1.99%	2325	2500	2590	2590	2590	2590	Tree
4406	3183.6	65.8	17.42	1.94%	2351	2522	2590	2590	2590	2590	Tree
4497	4568.2	-307.1	41.95	1.82%	2177	2590	2590	2590	2590	2590	Pine Tree
4794	6466.5	517.2	57.62	1.33%	2590	2590	2590	2590	2590	2590	House
4802	3240.5	39.0	19.84	2.14%	2239	2428	2590	2590	2590	2590	Tree
4804	3294.2	58.8	20.54	2.08%	2251	2451	2590	2590	2590	2590	Tree
4806	4337.1	-49.0	33.34	1.57%	2590	2590	2590	2590	2590	2590	Sewer vent
4808	4626.5	34.1	37.60	1.56%	2590	2590	2590	2590	2590	2590	Tree
4814	4782.9	112.0	48.53	1.94%	1978	2472	2590	2590	2590	2590	Building
4818	5204.8	-398.8	45.84	1.53%	2590	2590	2590	2590	2590	2590	Satellite dish atop building
4820	5243.5	21.9	51.20	1.71%	2290	2590	2590	2590	2590	2590	Tree
4822	6021.5	-26.6	63.16	1.67%	2326	2590	2590	2590	2590	2590	Tree
4824	5876.6	178.8	64.94	1.80%	2046	2590	2590	2590	2590	2590	Tree
4826	6185.0	218.0	65.06	1.65%	2380	2590	2590	2590	2590	2590	Tree
4827	9189.8	-444.1	126.70	1.83%	1499	2590	2590	2590	2590	2590	Building
4885	6676.8	-235.0	60.31	1.33%	2590	2590	2590	2590	2590	2590	Tree
4886	6714.2	-133.6	60.97	1.33%	2590	2590	2590	2590	2590	2590	Tree
4887	6583.0	-267.4	60.56	1.37%	2590	2590	2590	2590	2590	2590	Tree
4894	5965.9	47.5	57.25	1.52%	2590	2590	2590	2590	2590	2590	House
4896	6530.0	-114.9	57.52	1.31%	2590	2590	2590	2590	2590	2590	Grey tiled house
4897	6484.4	-80.7	59.04	1.36%	2590	2590	2590	2590	2590	2590	Grey tiled house
4898	6563.1	296.2	62.82	1.43%	2590	2590	2590	2590	2590	2590	House
4899	6664.8	246.8	62.42	1.39%	2590	2590	2590	2590	2590	2590	House
4900	6710.5	185.3	60.88	1.33%	2590	2590	2590	2590	2590	2590	House
4901	6652.7	144.1	64.08	1.43%	2590	2590	2590	2590	2590	2590	Grey tiled house
4902	6297.7	107.8	61.24	1.49%	2590	2590	2590	2590	2590	2590	House

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4903	6570.2	170.9	63.01	1.43%	2590	2590	2590	2590	2590	2590	Red tiled house
4904	6601.5	256.6	62.69	1.42%	2590	2590	2590	2590	2590	2590	House
4905	6482.6	402.2	61.76	1.43%	2590	2590	2590	2590	2590	2590	House
4906	6395.4	551.4	57.32	1.35%	2590	2590	2590	2590	2590	2590	House
4925	6256.4	40.5	61.15	1.51%	2590	2590	2590	2590	2590	2590	Appartment block
4926	6290.2	22.5	60.88	1.49%	2590	2590	2590	2590	2590	2590	Appartment block
4927	6238.4	47.3	62.74	1.56%	2590	2590	2590	2590	2590	2590	Appartment block
4928	6219.5	53.9	63.46	1.59%	2590	2590	2590	2590	2590	2590	Appartment block
4929	6199.8	-103.0	57.06	1.42%	2590	2590	2590	2590	2590	2590	Appartment block
4930	6147.2	-33.0	61.65	1.57%	2590	2590	2590	2590	2590	2590	Appartment block
4931	6594.2	343.9	61.80	1.40%	2590	2590	2590	2590	2590	2590	Red tiled house
4932	6561.0	441.9	58.53	1.32%	2590	2590	2590	2590	2590	2590	House
4933	6543.9	394.5	57.98	1.32%	2590	2590	2590	2590	2590	2590	House
4934	6548.3	256.3	63.55	1.46%	2590	2590	2590	2590	2590	2590	House
4947	6190.0	-223.1	58.79	1.47%	2590	2590	2590	2590	2590	2590	Tree
4948	5973.6	-164.5	56.27	1.49%	2590	2590	2590	2590	2590	2590	Tree
4949	5950.9	-163.9	55.70	1.48%	2590	2590	2590	2590	2590	2590	Tree
4950	5960.5	-138.0	55.28	1.46%	2590	2590	2590	2590	2590	2590	Tree
4951	5908.7	-95.8	59.44	1.61%	2488	2590	2590	2590	2590	2590	Tree
4952	5848.1	-95.3	59.02	1.63%	2438	2590	2590	2590	2590	2590	Tree
4953	5879.3	-45.2	58.41	1.60%	2590	2590	2590	2590	2590	2590	Palm Tree
4954	5820.8	94.8	57.02	1.58%	2590	2590	2590	2590	2590	2590	Tree
4955	5791.7	90.7	57.42	1.61%	2501	2590	2590	2590	2590	2590	Tree
4956	6330.8	16.6	71.56	1.75%	2088	2590	2590	2590	2590	2590	Tree
4957	6535.5	-155.1	56.79	1.29%	2590	2590	2590	2590	2590	2590	Tree
4958	6722.6	74.1	67.48	1.49%	2590	2590	2590	2590	2590	2590	Tree
4959	6684.3	45.8	64.40	1.43%	2590	2590	2590	2590	2590	2590	Tree
4960	6702.4	91.2	63.66	1.40%	2590	2590	2590	2590	2590	2590	Tree
4961	6685.5	-19.8	63.10	1.40%	2590	2590	2590	2590	2590	2590	Tree
4962	6663.6	68.5	65.48	1.46%	2590	2590	2590	2590	2590	2590	Tree
4964	6513.0	-227.1	55.16	1.26%	2590	2590	2590	2590	2590	2590	Tree
4965	6707.3	418.2	64.32	1.42%	2590	2590	2590	2590	2590	2590	Tree
4966	6753.1	463.3	63.26	1.38%	2590	2590	2590	2590	2590	2590	Tree
4967	6721.0	438.7	63.11	1.38%	2590	2590	2590	2590	2590	2590	Tree
4968	6441.5	498.4	63.00	1.48%	2590	2590	2590	2590	2590	2590	Tree
4969	6472.9	472.7	62.79	1.46%	2590	2590	2590	2590	2590	2590	Tree
4970	5858.9	41.4	59.23	1.63%	2434	2590	2590	2590	2590	2590	Tree
4971	5754.3	27.6	55.65	1.57%	2590	2590	2590	2590	2590	2590	Tree
4972	5598.9	116.1	57.09	1.70%	2275	2590	2590	2590	2590	2590	Tree
4973	5500.2	156.5	55.63	1.71%	2266	2590	2590	2590	2590	2590	Tree
4974	6170.6	382.7	62.10	1.57%	2590	2590	2590	2590	2590	2590	Palm Tree
4975	6076.1	-40.6	65.50	1.71%	2218	2590	2590	2590	2590	2590	Tree
4976	6006.4	7.3	63.91	1.70%	2253	2590	2590	2590	2590	2590	Tree
4977	5501.4	116.6	53.30	1.63%	2453	2590	2590	2590	2590	2590	Building
4978	6053.9	143.9	66.57	1.75%	2123	2590	2590	2590	2590	2590	Tree
5209	5905.7	-13.3	55.78	1.50%	2590	2590	2590	2590	2590	2590	Grey tiled house
5210	6077.3	-74.9	59.10	1.52%	2590	2590	2590	2590	2590	2590	Appartment block
5211	5922.5	130.4	57.42	1.55%	2590	2590	2590	2590	2590	2590	Appartment block
5220	6496.5	469.7	60.21	1.39%	2590	2590	2590	2590	2590	2590	Grey tiled house
5221	6549.6	556.8	56.02	1.27%	2590	2590	2590	2590	2590	2590	Grey tiled house
5224	6008.2	263.7	60.77	1.60%	2510	2590	2590	2590	2590	2590	Building
5244	6586.7	-100.0	55.88	1.25%	2590	2590	2590	2590	2590	2590	Grey tiled house
5245	6484.6	535.3	59.65	1.38%	2590	2590	2590	2590	2590	2590	Grey tiled house
5272	6501.3	-24.2	63.54	1.47%	2590	2590	2590	2590	2590	2590	Grey tiled house
5369	6600.2	516.9	55.68	1.24%	2590	2590	2590	2590	2590	2590	Building
5388	6715.1	-70.7	61.14	1.34%	2590	2590	2590	2590	2590	2590	Tree
5389	6797.5	37.2	66.82	1.45%	2590	2590	2590	2590	2590	2590	Tree
5395	4954.1	-82.1	51.65	1.93%	1953	2482	2590	2590	2590	2590	Tower Crane
5400	5840.3	345.7	69.56	1.96%	1712	2406	2590	2590	2590	2590	Apartments
5436	2702.8	93.7	8.54	2.33%	2451	2505	2558	2590	2590	2590	Tree
5437	2954.7	-11.5	13.28	2.02%	2388	2508	2590	2590	2590	2590	Tree
5438	2963.5	21.8	14.83	2.39%	2283	2411	2507	2590	2590	2590	Tree
5444	6333.8	85.3	61.70	1.49%	2590	2590	2590	2590	2590	2590	Building
5486	2885.1	108.2	11.09	1.75%	2486	2590	2590	2590	2590	2590	TREE
5487	3008.0	-27.0	13.99	1.93%	2401	2529	2590	2590	2590	2590	TREE
5488	2947.4	-13.9	12.90	1.95%	2412	2525	2590	2590	2590	2590	Tree
5489	2949.2	76.0	12.53	1.84%	2447	2590	2590	2590	2590	2590	Tree
5490	3426.0	131.5	22.60	2.00%	2255	2483	2590	2590	2590	2590	Tree
5491	3944.5	15.0	23.67	1.31%	2590	2590	2590	2590	2590	2590	Palm Tree
5492	3936.7	204.6	25.98	1.49%	2590	2590	2590	2590	2590	2590	Tree
5493	4064.4	-36.7	26.27	1.38%	2590	2590	2590	2590	2590	2590	Norfolk Pine Tree
5717	6021.2	186.9	62.84	1.66%	2350	2590	2590	2590	2590	2590	Sewer Vent
5719	6056.3	124.0	64.90	1.70%	2238	2590	2590	2590	2590	2590	Tree (Gum)
5720	6044.7	88.2	66.97	1.77%	2089	2590	2590	2590	2590	2590	Tree (Gum)
5721	6088.5	99.0	64.30	1.67%	2321	2590	2590	2590	2590	2590	Sewer Vent
5722	6058.9	18.9	60.10	1.56%	2590	2590	2590	2590	2590	2590	Chimney
5724	6058.1	63.7	59.20	1.54%	2590	2590	2590	2590	2590	2590	Pole with Light
5726	6187.5	33.2	63.30	1.59%	2590	2590	2590	2590	2590	2590	Roof
5727	6154.0	-3.7	61.40	1.56%	2590	2590	2590	2590	2590	2590	Roof
5728	6138.2	50.0	61.20	1.56%	2590	2590	2590	2590	2590	2590	Sewer Vent
5729	6228.4	5.4	71.00	1.79%	2019	2590	2590	2590	2590	2590	Tree (Norfolk Pine)
5730	6135.0	20.5	62.50	1.60%	2590	2590	2590	2590	2590	2590	Tree (Paper Bark)
5731	6210.5	24.4	62.60	1.57%	2590	2590	2590	2590	2590	2590	Roof
5735	6000.0	38.5	61.03	1.62%	2476	2590	2590	2590	2590	2590	TV Antenna on Beige House
6533	6227.8	19.5	62.40	1.55%	2590	2590	2590	2590	2590	2590	Roof (dark brown tile)
6534	6323.6	-12.7	62.00	1.50%	2590	2590	2590	2590	2590	2590	Roof (brown tile)

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6536	6373.9	-46.0	61.40	1.47%	2590	2590	2590	2590	2590	2590	Light Pole (steel)
6538	6438.7	34.2	69.40	1.65%	2358	2590	2590	2590	2590	2590	Sewer Vent
6539	6393.1	23.6	65.50	1.57%	2590	2590	2590	2590	2590	2590	Pole with light
6540	6377.1	24.4	63.50	1.52%	2590	2590	2590	2590	2590	2590	Roof (brown tile)
6541	6360.3	-13.8	62.00	1.49%	2590	2590	2590	2590	2590	2590	Roof (brown tile)
6542	6399.9	-17.1	63.50	1.51%	2590	2590	2590	2590	2590	2590	Light Pole (steel)
6543	6373.6	-93.4	59.50	1.42%	2590	2590	2590	2590	2590	2590	Light Pole (steel)
6544	6324.0	-168.0	54.20	1.29%	2590	2590	2590	2590	2590	2590	Light Pole
6545	6340.3	-122.5	57.70	1.38%	2590	2590	2590	2590	2590	2590	Pole with light
6547	6291.1	-84.4	61.96	1.51%	2590	2590	2590	2590	2590	2590	Gum Tree
6548	6272.9	-87.4	64.27	1.58%	2590	2590	2590	2590	2590	2590	Gum Tree
6549	6243.8	-95.7	71.90	1.81%	1978	2590	2590	2590	2590	2590	Gum Tree
6550	6221.3	-94.2	67.81	1.70%	2218	2590	2590	2590	2590	2590	Gum Tree
6552	6235.4	-75.9	61.30	1.52%	2590	2590	2590	2590	2590	2590	Gum Tree
6553	6314.1	-195.2	52.10	1.24%	2590	2590	2590	2590	2590	2590	Elec Pole
6554	6244.1	-169.8	54.60	1.33%	2590	2590	2590	2590	2590	2590	Pole with light
6555	6198.6	-153.1	56.50	1.40%	2590	2590	2590	2590	2590	2590	Pole with light
6556	6162.9	-139.8	57.40	1.44%	2590	2590	2590	2590	2590	2590	Pole with light
6557	6363.0	-122.7	62.06	1.49%	2590	2590	2590	2590	2590	2590	Fig Tree
6558	6290.7	-171.3	57.48	1.38%	2590	2590	2590	2590	2590	2590	Fig Tree
6559	6140.6	-134.5	66.20	1.70%	2242	2590	2590	2590	2590	2590	Gum Tree
6560	6150.7	-150.3	58.20	1.47%	2590	2590	2590	2590	2590	2590	Chimney (with white roof)
6561	6034.6	-98.0	59.70	1.56%	2590	2590	2590	2590	2590	2590	Gum Tree
6562	6120.7	-125.0	59.20	1.51%	2590	2590	2590	2590	2590	2590	Pole with light
6563	6051.3	-100.0	57.20	1.48%	2590	2590	2590	2590	2590	2590	Pole with light and transformer
6564	6137.1	-191.0	63.92	1.64%	2413	2590	2590	2590	2590	2590	Gum Tree
6565	6132.4	-99.4	61.75	1.58%	2590	2590	2590	2590	2590	2590	Silky Oak
6566	6099.9	-185.3	57.80	1.48%	2590	2590	2590	2590	2590	2590	Sewer Vent
6568	5911.7	-50.2	59.33	1.61%	2502	2590	2590	2590	2590	2590	Gum Tree
6569	5889.2	-60.0	55.00	1.49%	2590	2590	2590	2590	2590	2590	Roof (brown tile)
6574	6095.7	-84.6	57.20	1.46%	2590	2590	2590	2590	2590	2590	Roof (tiled)
6575	6067.8	-157.6	62.29	1.62%	2460	2590	2590	2590	2590	2590	Pine Tree Group
6576	6134.9	-266.9	55.90	1.41%	2590	2590	2590	2590	2590	2590	Sewer Vent
6577	6023.9	-226.3	51.80	1.34%	2590	2590	2590	2590	2590	2590	Pole with light
6578	6096.4	-266.7	56.50	1.44%	2590	2590	2590	2590	2590	2590	Gum Tree Group
6580	5870.8	-171.1	52.90	1.43%	2590	2590	2590	2590	2590	2590	Elec Pole
6581	5813.5	-150.1	54.80	1.52%	2590	2590	2590	2590	2590	2590	Pole with light
6583	5851.4	-178.2	59.77	1.65%	2377	2590	2590	2590	2590	2590	Gum Tree Group
6584	5902.1	-201.5	58.00	1.57%	2590	2590	2590	2590	2590	2590	Fig Tree
6585	5999.0	-244.3	56.70	1.49%	2590	2590	2590	2590	2590	2590	Pine Tree
6590	6004.1	-82.9	56.90	1.49%	2590	2590	2590	2590	2590	2590	Elec Pole (South cnr)
6592	6417.4	-175.5	65.07	1.55%	2590	2590	2590	2590	2590	2590	Gum Tree
6595	6523.1	-67.1	59.30	1.36%	2590	2590	2590	2590	2590	2590	Pole only
6597	6532.4	-41.2	59.90	1.37%	2590	2590	2590	2590	2590	2590	Pole with light
6598	6543.4	-11.5	61.80	1.41%	2590	2590	2590	2590	2590	2590	Pole only
6601	6435.9	-232.9	52.50	1.21%	2590	2590	2590	2590	2590	2590	Roof (brown tile)
9495	4892.6	-256.2	48.84	1.86%	2070	2590	2590	2590	2590	2590	BUILD/HOUSE/SHED
9508	3469.3	-136.5	22.22	1.85%	2334	2590	2590	2590	2590	2590	LIGHT POLE
9509	3911.6	-134.7	22.51	1.25%	2590	2590	2590	2590	2590	2590	ELEC POLE
9520	3414.7	-63.5	20.17	1.73%	2430	2590	2590	2590	2590	2590	Flood light
9523	3478.0	-163.7	19.75	1.56%	2590	2590	2590	2590	2590	2590	Flood light
9529	4918.8	-297.5	49.02	1.85%	2084	2590	2590	2590	2590	2590	Satellite dish atop building
9532	3369.1	-163.3	20.02	1.81%	2379	2590	2590	2590	2590	2590	Flood light
9535	6737.9	-352.2	64.83	1.42%	2590	2590	2590	2590	2590	2590	TREE
9536	6743.6	-340.3	57.35	1.24%	2590	2590	2590	2590	2590	2590	TREE
9540	4449.1	124.6	42.42	1.96%	2027	2456	2590	2590	2590	2590	Fig Tree
9541	4461.2	113.7	44.01	2.04%	1937	2362	2590	2590	2590	2590	Tree
9542	3134.8	100.0	12.84	1.27%	2590	2590	2590	2590	2590	2590	ELEC POLE
9543	4458.6	-34.7	42.73	1.97%	2016	2446	2590	2590	2590	2590	Pine Tree

* Obstacle excluded from critical calculations.

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Summary of STODAs											
Max Grade	1.60%		1.90%		2.20%		2.50%		3.33%		5.00%
ID Grade	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID Length (m)
2968 44.02%	1226	3466	1226	3717	1226	3898	5423	3961	2968	3995	2968 4015

Worst STODAs											
1.60%		1.90%		2.20%		2.50%		3.33%		5.00%	
ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
1226	3466	1226	3717	1226	3898	5423	3961	2968	3995	2968	4015
3032	3488	3032	3763	5433	3899	5433	3964	2966	3995	2966	4015
3433	3525	3433	3784	5423	3903	5422	3969	2967	3995	2967	4015
3443	3554	3430	3805	5422	3911	5424	3969	2971	4009	2971	4035
3430	3562	5433	3813	5430	3912	5430	3971	2970	4009	2970	4035
3033	3572	3077	3821	5424	3912	2968	3975	2969	4009	2969	4035
3577	3577	5423	3826	5475	3915	2966	3976	2974	4024	-	4052
3436	3581	3033	3826	9481	3934	2967	3976	2973	4024	-	4052
3673	3593	9481	3827	5476	3937	5475	3977	2972	4024	-	4052
3509	3611	3436	3831	3963	3962	2971	3984	2977	4039	-	4052

Worst Grades							
ID	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
2968	44.02%	3929	3949	3964	3975	3995	4015
2966	43.10%	3931	3951	3965	3976	3995	4015
2967	42.82%	3931	3951	3965	3976	3995	4015
2971	7.38%	3928	3953	3971	3984	4009	4035
2970	7.35%	3928	3953	3971	3985	4009	4035
2969	7.34%	3929	3954	3972	3985	4009	4035
2974	4.73%	3927	3957	3978	3994	4024	4023
2973	4.71%	3927	3957	3978	3994	4024	4023
2972	4.70%	3927	3958	3979	3994	4024	4023
2977	3.75%	3926	3961	3985	4004	4039	4023

ID	Ch	OS	RL	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%	Description
396	5307.1	-183.3	23.00	1.66%	4004	4023	4023	4023	4023	4023	Palm tree
398	5312.0	-186.1	23.00	1.65%	4008	4023	4023	4023	4023	4023	Palm tree
400	5383.7	45.4	28.32	1.96%	3753	4006	4023	4023	4023	4023	Palm tree
440	8288.6	-157.1	55.70	1.26%	4023	4023	4023	4023	4023	4023	Gum Tree
444	7788.1	-321.6	58.00	1.49%	4023	4023	4023	4023	4023	4023	Building
482	4189.5	95.0	5.32	2.29%	3992	4022	4044	4023	4023	4023	Light Pole
484	4189.5	79.0	5.25	2.24%	3996	4025	4048	4023	4023	4023	Light Pole
486	4189.5	63.7	5.28	2.26%	3995	4024	4046	4023	4023	4023	Light Pole
488	4189.5	45.0	5.24	2.24%	3997	4025	4048	4023	4023	4023	Light Pole
490	4189.5	30.2	5.24	2.24%	3997	4025	4048	4023	4023	4023	Light Pole
492	4189.5	14.7	5.25	2.24%	3996	4025	4047	4023	4023	4023	Light Pole
494	4189.5	-2.3	5.24	2.23%	3997	4026	4048	4023	4023	4023	Light Pole
496	4189.5	-17.7	5.21	2.21%	3999	4027	4049	4023	4023	4023	Light Pole
498	4189.4	-33.9	5.25	2.24%	3996	4025	4047	4023	4023	4023	Light Pole
500	4189.5	-48.9	5.29	2.27%	3994	4023	4046	4023	4023	4023	Light Pole
502	4189.5	-66.8	5.27	2.26%	3995	4024	4046	4023	4023	4023	Light Pole
504	4189.5	-81.7	5.32	2.29%	3992	4021	4044	4023	4023	4023	Light Pole
506	4189.5	-97.9	5.28	2.26%	3995	4024	4046	4023	4023	4023	Light Pole
526	4226.2	108.3	6.85	2.69%	3934	3980	4012	4037	4023	4023	Light Pole
528	4226.2	96.2	6.92	2.73%	3930	3977	4009	4034	4023	4023	Light Pole
530	4226.2	84.1	6.90	2.72%	3932	3978	4010	4035	4023	4023	Light Pole
532	4226.2	71.7	6.85	2.69%	3934	3980	4012	4037	4023	4023	Light Pole
534	4226.2	59.6	6.86	2.69%	3934	3980	4012	4037	4023	4023	Light Pole
536	4226.2	47.3	6.84	2.68%	3935	3980	4012	4037	4023	4023	Light Pole
538	4226.2	35.2	6.88	2.71%	3933	3979	4011	4036	4023	4023	Light Pole
540	4226.2	23.1	6.85	2.69%	3935	3980	4012	4037	4023	4023	Light Pole
542	4226.2	10.5	6.86	2.69%	3934	3980	4011	4037	4023	4023	Light Pole
544	4226.2	-1.4	6.81	2.66%	3937	3982	4014	4039	4023	4023	Light Pole
546	4226.2	-13.7	6.88	2.70%	3933	3979	4011	4036	4023	4023	Light Pole
548	4226.2	-25.9	6.81	2.66%	3937	3982	4014	4039	4023	4023	Light Pole
550	4226.2	-38.1	6.87	2.70%	3934	3979	4011	4036	4023	4023	Light Pole
552	4226.2	-50.1	6.88	2.71%	3933	3979	4011	4036	4023	4023	Light Pole
554	4226.1	-62.5	6.88	2.71%	3933	3979	4011	4036	4023	4023	Light Pole
556	4226.1	-74.4	6.86	2.69%	3934	3980	4012	4037	4023	4023	Light Pole
558	4226.1	-86.5	6.84	2.68%	3935	3981	4012	4038	4023	4023	Light Pole
560	4226.1	-98.9	6.89	2.71%	3932	3978	4010	4036	4023	4023	Light Pole
562	4226.1	-111.0	6.88	2.71%	3932	3978	4010	4036	4023	4023	Light Pole
574	4188.5	0.5	4.19	1.48%	4023	4023	4023	4023	4023	4023	Wire line atop RWY 16R Blast Fence
576	4188.5	105.8	4.20	1.49%	4023	4023	4023	4023	4023	4023	Wire line atop RWY 16R Blast Fence
582	4190.2	-96.3	4.65	1.79%	4033	4023	4023	4023	4023	4023	Road Sign
584	4189.9	-37.0	4.71	1.84%	4028	4023	4023	4023	4023	4023	Road Sign
738	7716.0	-4.7	50.63	1.32%	4023	4023	4023	4023	4023	4023	Mobile Phone Tower
740	7677.6	-0.8	55.46	1.47%	4023	4023	4023	4023	4023	4023	Gum Tree
1208	4846.8	-37.9	12.83	1.34%	4023	4023	4023	4023	4023	4023	FLOOD LIGHT
1214	4645.0	147.0	12.17	1.69%	4018	4023	4023	4023	4023	4023	LIGHT POLE
1226	5067.3	-142.9	27.90	2.53%	3466	3717	3898	4036	4023	4023	TREE
1229	4979.8	-192.2	22.07	2.14%	3740	3933	4023	4023	4023	4023	LIGHT POLE
1309	4211.1	-80.8	5.38	2.02%	4009	4040	4023	4023	4023	4023	Perimeter fence
1310	4211.1	-32.9	5.38	2.02%	4009	4040	4023	4023	4023	4023	Perimeter fence
1311	4211.1	8.8	5.38	2.02%	4009	4040	4023	4023	4023	4023	Perimeter fence
1312	4211.1	37.5	5.39	2.02%	4008	4039	4023	4023	4023	4023	Perimeter fence
1313	4211.1	66.2	5.39	2.02%	4008	4039	4023	4023	4023	4023	Perimeter fence

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1314	4211.1	102.1	5.39	2.02%	4008	4039	4023	4023	4023	4023	Perimeter fence
1318	5063.2	29.5	23.55	2.11%	3732	3939	4023	4023	4023	4023	Mobile Phone Tower
1320	5046.7	0.9	20.12	1.80%	3926	4023	4023	4023	4023	4023	Plant room atop building
1321	5123.4	168.2	22.36	1.88%	3861	4023	4023	4023	4023	4023	Building
1322	5121.0	187.6	22.36	1.89%	3859	4023	4023	4023	4023	4023	Building
1323	5022.9	-54.5	19.76	1.81%	3925	4023	4023	4023	4023	4023	Apex of building
1324	5042.6	25.2	20.42	1.84%	3903	4023	4023	4023	4023	4023	Aerial atop building
1724	4300.9	-52.6	6.83	1.87%	4008	4023	4023	4023	4023	4023	Fence Pole
1740	5284.2	81.9	25.73	1.91%	3811	4042	4023	4023	4023	4023	Light Pole
1798	7518.9	480.0	63.00	1.75%	3722	4023	4023	4023	4023	4023	Tree - Norfolk
1990	7697.2	-473.3	66.36	1.76%	3692	4023	4023	4023	4023	4023	Tree
1991	7687.4	-387.1	66.50	1.77%	3675	4023	4023	4023	4023	4023	Gum Tree
2100	4791.2	-120.2	17.88	2.13%	3808	3965	4023	4023	4023	4023	Vent
2102	4801.2	-133.1	18.08	2.12%	3806	3965	4023	4023	4023	4023	Vent
2104	4814.7	-140.3	18.00	2.08%	3825	3981	4023	4023	4023	4023	Vent
2106	4827.9	-147.2	18.14	2.06%	3829	3987	4023	4023	4023	4023	Vent
2108	4840.8	-154.0	18.41	2.06%	3826	3986	4023	4023	4023	4023	Vent
2110	4854.8	-161.3	18.53	2.04%	3832	3993	4023	4023	4023	4023	Vent
2112	4868.5	-168.6	18.83	2.04%	3827	3991	4023	4023	4023	4023	Vent
2114	4880.2	-174.7	19.02	2.03%	3827	3993	4023	4023	4023	4023	Vent
2116	4894.3	-182.2	19.37	2.04%	3819	3989	4023	4023	4023	4023	Vent
2136	4908.0	-189.3	19.58	2.03%	3820	3991	4023	4023	4023	4023	Vent
2138	4921.6	-196.6	19.83	2.03%	3817	3992	4023	4023	4023	4023	Vent
2146	4995.5	-184.8	22.24	2.13%	3745	3940	4023	4023	4023	4023	Street light
2148	5000.2	-133.8	22.26	2.12%	3748	3943	4023	4023	4023	4023	Street light
2150	4914.0	-108.4	18.44	1.89%	3898	4023	4023	4023	4023	4023	Street light
2516	5368.6	-52.8	29.71	2.09%	3655	3920	4023	4023	4023	4023	Tree
2518	5522.9	241.9	28.88	1.82%	3853	4023	4023	4023	4023	4023	Tree
2520	4907.5	90.4	18.00	1.85%	3919	4023	4023	4023	4023	4023	Flood Light
2578	4173.8	-57.2	5.85	3.03%	3945	3980	4005	4025	4023	4023	Far field monitor mast
2580	4173.9	-0.2	5.95	3.10%	3938	3976	4001	4021	4023	4023	Far Field monitor mast
2966	4057.2	-12.0	4.21	43.10%	3931	3951	3965	3976	3995	4015	HAL
2967	4057.2	12.1	4.21	42.82%	3931	3951	3965	3976	3995	4015	HAL
2968	4057.2	0.0	4.24	44.02%	3929	3949	3964	3975	3995	4015	HAL
2969	4087.1	-12.0	4.72	7.34%	3929	3954	3972	3985	4009	4035	HAL
2970	4087.2	0.0	4.73	7.35%	3928	3953	3971	3985	4009	4035	HAL
2971	4087.2	12.1	4.74	7.38%	3928	3953	3971	3984	4009	4035	HAL
2972	4117.2	0.1	5.22	4.70%	3927	3958	3979	3994	4024	4023	HAL
2973	4117.2	-12.0	5.23	4.71%	3927	3957	3978	3994	4024	4023	HAL
2974	4117.2	12.0	5.24	4.73%	3927	3957	3978	3994	4024	4023	HAL
2975	4147.2	0.0	5.72	3.74%	3926	3962	3986	4004	4039	4023	HAL
2976	4147.3	-12.0	5.73	3.74%	3926	3961	3985	4004	4039	4023	HAL
2977	4147.3	12.0	5.74	3.75%	3926	3961	3985	4004	4039	4023	HAL
2978	4179.7	14.9	6.15	3.12%	3932	3971	3998	4019	4023	4023	HAL
2979	4179.7	-15.1	6.18	3.15%	3930	3970	3997	4018	4023	4023	HAL
2980	4179.3	0.0	6.48	3.39%	3911	3954	3983	4006	4048	4023	HAL
2981	4211.8	0.0	7.09	3.08%	3905	3954	3988	4014	4023	4023	HAL
2982	4276.0	0.0	7.10	2.20%	3969	4015	4050	4023	4023	4023	HAL
2983	4303.5	0.0	7.50	2.12%	3972	4021	4023	4023	4023	4023	HAL
2984	4331.2	0.0	7.92	2.06%	3973	4026	4023	4023	4023	4023	HAL
2985	4358.9	0.0	8.34	2.01%	3974	4032	4023	4023	4023	4023	HAL
2986	4386.7	0.0	8.80	1.98%	3973	4035	4023	4023	4023	4023	HAL
2987	4414.4	0.0	9.19	1.94%	3976	4043	4023	4023	4023	4023	HAL
2988	4442.1	0.1	9.62	1.91%	3977	4047	4023	4023	4023	4023	HAL
2989	4469.5	0.0	10.13	1.91%	3973	4048	4023	4023	4023	4023	HAL
2990	4497.5	0.0	10.49	1.87%	3978	4023	4023	4023	4023	4023	HAL
2991	4525.3	0.0	10.87	1.84%	3982	4023	4023	4023	4023	4023	HAL
2992	4553.0	0.0	11.31	1.82%	3982	4023	4023	4023	4023	4023	HAL
2993	4580.8	0.0	11.72	1.81%	3984	4023	4023	4023	4023	4023	HAL
2994	4608.5	0.0	12.14	1.79%	3985	4023	4023	4023	4023	4023	HAL
2995	4636.2	0.0	12.59	1.78%	3985	4023	4023	4023	4023	4023	HAL
2996	4663.7	0.0	13.04	1.78%	3984	4023	4023	4023	4023	4023	HAL
2997	4692.2	0.1	13.39	1.75%	3991	4023	4023	4023	4023	4023	HAL
2998	4720.0	0.0	13.44	1.69%	4014	4023	4023	4023	4023	4023	HAL
2999	4747.9	0.0	13.62	1.64%	4030	4023	4023	4023	4023	4023	HAL
3000	4243.5	0.0	7.10	2.57%	3937	3984	4018	4045	4023	4023	HAL
3005	4243.9	2.3	6.73	2.38%	3960	4003	4034	4023	4023	4023	HAL
3006	4243.9	-2.2	6.69	2.36%	3963	4005	4036	4023	4023	4023	HAL
3007	4676.3	-133.5	16.51	2.30%	3780	3922	4022	4023	4023	4023	Container
3032	5257.1	-109.9	30.58	2.36%	3488	3763	3967	4023	4023	4023	Tree
3033	5224.5	10.7	28.73	2.27%	3572	3826	4015	4023	4023	4023	Palm Tree
3034	5302.4	181.0	28.68	2.12%	3654	3908	4023	4023	4023	4023	Palm Tree
3035	5268.8	192.0	27.80	2.11%	3675	3921	4023	4023	4023	4023	Palm Tree
3062	4056.4	46.2	2.57	9.96%	4029	4033	4036	4039	4043	4047	frangible marker
3063	4053.5	-46.2	2.65	45.08%	4021	4026	4030	4033	4038	4043	frangible marker
3064	4082.1	45.9	2.80	2.09%	4040	4047	4052	4023	4023	4023	frangible marker
3065	4081.6	-46.4	2.53	1.21%	4023	4023	4023	4023	4023	4023	frangible marker
3075	4927.5	-108.2	18.26	1.84%	3923	4023	4023	4023	4023	4023	Street light
3076	4945.0	-125.6	18.76	1.86%	3910	4023	4023	4023	4023	4023	Street light
3077	4942.2	-108.0	23.46	2.39%	3619	3821	3975	4023	4023	4023	Palm Tree
3078	4873.6	-151.0	19.40	2.10%	3796	3968	4023	4023	4023	4023	Vent atop building
3079	5035.6	-168.0	22.55	2.07%	3764	3964	4023	4023	4023	4023	Lightning rod atop chimney
3081	5357.4	-49.2	30.04	2.13%	3623	3891	4023	4023	4023	4023	Tree
3082	5466.7	-13.9	29.83	1.96%	3742	4009	4023	4023	4023	4023	Tree
3083	5391.5	-44.8	28.82	1.99%	3731	3989	4023	4023	4023	4023	Tree
3084	5581.4	-181.7	24.10	1.43%	4023	4023	4023	4023	4023	4023	Palm Tree
3193	8495.2	-547.9	70.49	1.54%	4023	4023	4023	4023	4023	4023	Tree

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3194	8311.4	-391.9	66.69	1.51%	4023	4023	4023	4023	4023	4023	Tree
3195	8038.8	-159.4	66.19	1.61%	4035	4023	4023	4023	4023	4023	Tree
3292	4628.5	-105.9	15.16	2.25%	3816	3945	4036	4023	4023	4023	Traffic Sign
3374	4362.4	104.8	7.71	1.78%	4014	4023	4023	4023	4023	4023	Lightpole
3402	4305.7	103.3	7.25	2.00%	3988	4036	4023	4023	4023	4023	Lightpole
3411	4629.4	-106.0	15.24	2.26%	3812	3942	4033	4023	4023	4023	Traffic sign
3412	4638.1	-111.1	14.32	2.07%	3878	3998	4023	4023	4023	4023	Fence
3413	4621.9	-103.8	13.82	2.04%	3894	4007	4023	4023	4023	4023	Fence
3414	4622.6	-137.7	14.98	2.25%	3821	3949	4038	4023	4023	4023	Traffic sign
3415	4647.5	-111.4	15.29	2.20%	3827	3958	4049	4023	4023	4023	Aerial
3420	4798.2	-107.7	17.65	2.07%	3830	3983	4023	4023	4023	4023	Vent
3422	4830.1	159.3	20.13	2.31%	3713	3885	4012	4023	4023	4023	Container
3423	4977.7	-146.2	21.87	2.13%	3750	3941	4023	4023	4023	4023	Tree
3424	5003.6	-156.8	21.42	2.02%	3799	3990	4023	4023	4023	4023	Light pole
3425	4988.9	-134.4	21.24	2.04%	3797	3985	4023	4023	4023	4023	Power pole
3428	5087.3	25.5	20.87	1.81%	3920	4023	4023	4023	4023	4023	Flag
3429	5127.5	-52.7	24.97	2.12%	3708	3928	4023	4023	4023	4023	Tree
3430	5143.8	-41.3	27.60	2.33%	3562	3805	3988	4023	4023	4023	Tree
3431	5160.6	-81.2	26.62	2.21%	3640	3873	4047	4023	4023	4023	Tree
3432	5177.4	-82.3	26.47	2.16%	3666	3899	4023	4023	4023	4023	Tree
3433	5202.5	-92.1	29.12	2.34%	3525	3784	3978	4023	4023	4023	Tree
3434	5164.1	157.2	25.64	2.11%	3703	3930	4023	4023	4023	4023	Tree
3435	5209.5	-59.3	27.16	2.16%	3656	3895	4023	4023	4023	4023	Tree
3436	5212.9	-89.2	28.41	2.26%	3581	3831	4018	4023	4023	4023	Tree
3438	7764.0	410.2	60.70	1.58%	4023	4023	4023	4023	4023	4023	Tree
3439	7821.5	-257.6	60.65	1.55%	4023	4023	4023	4023	4023	4023	Tree
3440	7814.8	54.3	57.71	1.48%	4023	4023	4023	4023	4023	4023	Tree
3441	7796.9	-522.7	61.80	1.59%	4023	4023	4023	4023	4023	4023	Sewer Vent
3442	7807.0	354.8	47.99	1.22%	4023	4023	4023	4023	4023	4023	Newington College
3443	7752.8	-528.5	69.47	1.82%	3554	4023	4023	4023	4023	4023	Gum Tree Group
3445	8004.5	-549.5	66.66	1.63%	3974	4023	4023	4023	4023	4023	Round Dark Chimney on Building
3446	7861.9	252.0	58.65	1.48%	4023	4023	4023	4023	4023	4023	Tree
3447	7690.3	-276.7	58.61	1.55%	4023	4023	4023	4023	4023	4023	Roof of Tower
3448	7898.9	491.4	49.86	1.24%	4023	4023	4023	4023	4023	4023	Tree
3449	7536.9	-154.0	64.77	1.80%	3632	4023	4023	4023	4023	4023	Lightning Rod
3454	7949.4	-440.8	61.11	1.51%	4023	4023	4023	4023	4023	4023	Petersham Town Hall
3459	7979.0	-481.5	70.33	1.74%	3724	4023	4023	4023	4023	4023	Flag Pole on Clock Tower
3460	7899.2	-272.8	51.98	1.29%	4023	4023	4023	4023	4023	4023	Roof
3461	7822.7	-436.2	61.20	1.57%	4023	4023	4023	4023	4023	4023	Flag Pole on Building
3463	7866.9	-415.6	62.10	1.57%	4023	4023	4023	4023	4023	4023	Cross on E end of Church
3465	7837.4	-363.2	61.67	1.57%	4023	4023	4023	4023	4023	4023	Palm Tree
3467	7860.2	-359.3	57.00	1.44%	4023	4023	4023	4023	4023	4023	Sewer Vent
3473	7704.2	-66.7	55.00	1.45%	4023	4023	4023	4023	4023	4023	Church Spire
3475	7767.5	-78.8	57.77	1.50%	4023	4023	4023	4023	4023	4023	Camphorlaurel Trees
3477	7505.9	425.5	54.61	1.52%	4023	4023	4023	4023	4023	4023	Building
3479	7484.9	449.1	54.40	1.52%	4023	4023	4023	4023	4023	4023	Building
3481	7676.4	351.1	58.95	1.57%	4023	4023	4023	4023	4023	4023	Camphorlaurel Trees
3487	5008.4	-117.0	22.21	2.10%	3758	3955	4023	4023	4023	4023	Light Pole
3488	8134.2	-164.0	61.82	1.46%	4023	4023	4023	4023	4023	4023	Tree
3489	5003.4	-93.9	23.21	2.21%	3694	3896	4045	4023	4023	4023	Elec Pole
3490	8274.0	-200.7	55.89	1.27%	4023	4023	4023	4023	4023	4023	Pine Tree
3491	7808.1	-413.6	62.00	1.59%	4023	4023	4023	4023	4023	4023	Flag Pole on Building
3492	8291.3	-318.7	56.03	1.27%	4023	4023	4023	4023	4023	4023	Apartment
3493	8200.0	-404.7	65.10	1.52%	4023	4023	4023	4023	4023	4023	Whip Antenna
3494	8382.4	-436.0	61.51	1.37%	4023	4023	4023	4023	4023	4023	Tree
3496	8570.0	-212.0	58.01	1.24%	4023	4023	4023	4023	4023	4023	Petersham College
3497	7618.2	-421.9	55.85	1.51%	4023	4023	4023	4023	4023	4023	Palm Tree
3509	5314.8	171.1	29.55	2.17%	3611	3873	4023	4023	4023	4023	Sewer Vent
3511	4210.2	108.3	6.78	2.92%	3923	3968	4000	4024	4023	4023	Light Pole
3513	4210.2	96.1	6.82	2.94%	3921	3967	3998	4022	4023	4023	Light Pole
3515	4210.3	84.0	6.75	2.89%	3925	3970	4001	4025	4023	4023	Light Pole
3517	4210.1	71.7	6.78	2.92%	3923	3968	4000	4024	4023	4023	Light Pole
3519	4210.1	59.6	6.82	2.94%	3921	3967	3998	4022	4023	4023	Light Pole
3521	4210.2	47.5	6.79	2.92%	3923	3968	3999	4024	4023	4023	Light Pole
3523	4210.2	35.2	6.75	2.90%	3925	3970	4001	4025	4023	4023	Light Pole
3525	4210.2	22.9	6.73	2.88%	3926	3971	4002	4026	4023	4023	Light Pole
3527	4210.3	10.6	6.79	2.92%	3923	3968	3999	4024	4023	4023	Light Pole
3529	4210.2	-1.8	6.75	2.90%	3925	3970	4001	4025	4023	4023	Light Pole
3531	4210.2	-13.6	6.79	2.92%	3923	3968	3999	4023	4023	4023	Light Pole
3533	4210.2	-25.7	6.78	2.92%	3923	3968	4000	4024	4023	4023	Light Pole
3535	4210.2	-38.3	6.76	2.90%	3924	3970	4001	4025	4023	4023	Light Pole
3537	4210.2	-49.8	6.81	2.94%	3921	3967	3998	4023	4023	4023	Light Pole
3539	4210.2	-62.4	6.80	2.93%	3922	3968	3999	4023	4023	4023	Light Pole
3541	4210.3	-74.4	7.04	3.08%	3907	3955	3989	4014	4023	4023	Light Pole
3543	4210.1	-86.2	6.80	2.93%	3922	3967	3999	4023	4023	4023	Light Pole
3545	4210.1	-98.8	6.92	3.01%	3914	3961	3993	4018	4023	4023	Light Pole
3577	5289.4	92.8	29.68	2.22%	3577	3841	4037	4023	4023	4023	Sewer Vent
3581	4561.2	-102.2	12.10	1.95%	3941	4036	4023	4023	4023	4023	Natural Surface
3587	7229.9	231.4	47.38	1.42%	4023	4023	4023	4023	4023	4023	Pine Tree
3589	7318.9	472.4	47.06	1.37%	4023	4023	4023	4023	4023	4023	Tile roof of flats
3591	7347.0	443.8	48.80	1.42%	4023	4023	4023	4023	4023	4023	Brick wall at N of Building
3607	8186.6	-259.9	58.10	1.35%	4023	4023	4023	4023	4023	4023	Sewer Vent
3609	8307.2	101.2	54.10	1.22%	4023	4023	4023	4023	4023	4023	Church Spire
3615	8469.8	-472.8	57.42	1.25%	4023	4023	4023	4023	4023	4023	Church Spire (Conc Brick)
3619	5809.2	292.4	28.49	1.50%	4023	4023	4023	4023	4023	4023	Mobile Phone on Building
3623	5475.7	-141.6	22.40	1.42%	4023	4023	4023	4023	4023	4023	El and Lt Pole
3625	5515.9	-66.8	23.70	1.47%	4023	4023	4023	4023	4023	4023	El and Lt Pole

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3635	5003.6	-12.1	15.80	1.43%	4023	4023	4023	4023	4023	4023	El and Lt Pole
3637	5096.0	1.3	18.43	1.56%	4023	4023	4023	4023	4023	4023	El and Lt Pole
3639	5127.5	11.0	17.75	1.45%	4023	4023	4023	4023	4023	4023	El and Lt Pole
3643	9206.5	-263.9	73.71	1.39%	4023	4023	4023	4023	4023	4023	Church Spire
3645	9199.9	-214.0	71.95	1.36%	4023	4023	4023	4023	4023	4023	Lightning Conductor
3655	4987.8	-120.7	24.05	2.34%	3627	3836	3993	4023	4023	4023	Sign
3657	8353.2	-373.5	60.87	1.36%	4023	4023	4023	4023	4023	4023	Flat Conc Roof
3659	8522.7	-227.7	61.15	1.32%	4023	4023	4023	4023	4023	4023	TV Antenna
3665	7368.1	418.0	60.78	1.77%	3711	4023	4023	4023	4023	4023	Gum Tree
3667	5059.6	-101.6	23.90	2.16%	3708	3917	4023	4023	4023	4023	Elec Pole
3673	5237.1	20.9	28.60	2.23%	3593	3845	4034	4023	4023	4023	Building
3681	8161.4	-348.5	62.10	1.46%	4023	4023	4023	4023	4023	4023	Silky Oak Tree
3687	4858.1	-118.8	20.10	2.22%	3742	3915	4041	4023	4023	4023	TV Antenna
3691	4828.9	-114.8	18.20	2.06%	3827	3985	4023	4023	4023	4023	Roof Pitch (G.I. Edge of conc.)
3697	4872.1	171.0	18.96	2.05%	3822	3988	4023	4023	4023	4023	Elec Pole (Steel)
3703	4685.1	117.3	13.18	1.74%	3996	4023	4023	4023	4023	4023	Elec Pole with Light
3705	4687.6	144.0	14.68	1.97%	3907	4027	4023	4023	4023	4023	Elec Pole with Light
3707	4732.4	110.7	14.38	1.79%	3970	4023	4023	4023	4023	4023	Elec Pole with Light
3709	4726.7	86.4	13.39	1.66%	4023	4023	4023	4023	4023	4023	Elec Pole with Light
3711	4766.7	56.1	13.93	1.64%	4029	4023	4023	4023	4023	4023	Elec Pole with Light
3713	4805.5	27.6	13.94	1.56%	4023	4023	4023	4023	4023	4023	Elec Pole with Light
3715	4846.1	-0.8	13.84	1.47%	4023	4023	4023	4023	4023	4023	Elec Pole with Light
3745	4597.9	-129.5	13.00	1.98%	3922	4026	4023	4023	4023	4023	Natural Surface
3747	4604.8	-61.3	10.00	1.42%	4023	4023	4023	4023	4023	4023	Natural Surface
3757	4069.4	0.0	3.40	7.20%	3992	4003	4012	4019	4031	4044	Antenna
3758	7670.5	147.0	57.83	1.54%	4023	4023	4023	4023	4023	4023	Tree
3760	7799.5	81.7	57.41	1.47%	4023	4023	4023	4023	4023	4023	Tree
3764	7807.0	176.3	59.56	1.53%	4023	4023	4023	4023	4023	4023	Tree
3766	7573.3	417.4	59.38	1.62%	3997	4023	4023	4023	4023	4023	Tree
3767	4170.2	-26.1	4.60	2.06%	4016	4040	4023	4023	4023	4023	Obstruction Light (Lit 2/2)
3768	7539.9	453.1	61.22	1.69%	3849	4023	4023	4023	4023	4023	Tree
3769	4170.6	26.2	4.59	2.04%	4017	4041	4023	4023	4023	4023	Obstruction Light (Lit 2/2)
3770	7484.2	218.9	54.10	1.51%	4023	4023	4023	4023	4023	4023	Tree
3772	7484.1	405.7	54.78	1.53%	4023	4023	4023	4023	4023	4023	Tree
3775	5143.5	-25.8	23.33	1.94%	3820	4027	4023	4023	4023	4023	Sewer Vent
3777	5205.8	-26.9	21.33	1.66%	4007	4023	4023	4023	4023	4023	El and Lt Pole
3778	7211.6	482.7	55.81	1.70%	3858	4023	4023	4023	4023	4023	Tree
3779	5228.8	-39.3	21.35	1.63%	4027	4023	4023	4023	4023	4023	Elec Pole
3781	5295.4	-56.7	19.89	1.42%	4023	4023	4023	4023	4023	4023	Elec Pole
3783	5215.7	-5.4	25.89	2.04%	3737	3968	4023	4023	4023	4023	Chimney
3785	5210.1	-2.4	25.93	2.05%	3730	3961	4023	4023	4023	4023	Mast/Pylon
3789	5322.8	105.0	27.73	2.01%	3730	3978	4023	4023	4023	4023	Column with Vent Cover
3793	5881.2	226.9	37.00	1.90%	3710	4046	4023	4023	4023	4023	Mobile Phone Tower
3795	6294.2	-304.1	30.30	1.25%	4023	4023	4023	4023	4023	4023	Norfolk Pine Tree
3827	7669.6	247.6	51.84	1.37%	4023	4023	4023	4023	4023	4023	TV Antenna
3829	7655.0	251.6	51.91	1.38%	4023	4023	4023	4023	4023	4023	TV Antenna
3831	8010.9	-549.1	71.21	1.74%	3702	4023	4023	4023	4023	4023	Antenna on Building (White)
3833	4208.5	-109.2	5.73	2.28%	3986	4019	4045	4023	4023	4023	Perimeter Road Crown (plus 3.6m)
3835	4208.1	0.0	5.67	2.24%	3989	4022	4047	4023	4023	4023	Perimeter Road Crown (plus 3.6m)
3837	4208.2	109.1	5.72	2.27%	3986	4019	4045	4023	4023	4023	Perimeter Road Crown (plus 3.6m)
3863	7655.1	-212.5	58.30	1.56%	4023	4023	4023	4023	4023	4023	Tree
3865	8076.8	-342.0	60.95	1.46%	4023	4023	4023	4023	4023	4023	Tree
3888	5058.1	-4.1	19.94	1.77%	3948	4023	4023	4023	4023	4023	Mobile phone aerial
3889	5060.6	-6.2	20.57	1.82%	3912	4023	4023	4023	4023	4023	Mobile phone aerial
3890	5062.1	-3.5	18.11	1.58%	4023	4023	4023	4023	4023	4023	Mobile phone aerial
3891	5075.1	15.6	20.54	1.80%	3928	4023	4023	4023	4023	4023	Mobile phone aerial
3892	5076.8	18.1	20.68	1.81%	3921	4023	4023	4023	4023	4023	Mobile phone aerial
3894	5071.0	15.9	18.97	1.65%	4019	4023	4023	4023	4023	4023	Shed on Roof Princes Hwy
3901	5258.5	9.2	28.42	2.18%	3625	3876	4023	4023	4023	4023	Sewer Vent on Railway Line
3902	5287.1	-71.7	28.55	2.14%	3647	3899	4023	4023	4023	4023	Tree
3903	5299.2	-78.7	21.39	1.54%	4023	4023	4023	4023	4023	4023	Corner of building
3904	5507.8	-145.6	28.54	1.81%	3859	4023	4023	4023	4023	4023	Tree
3907	7728.9	-195.3	58.90	1.54%	4023	4023	4023	4023	4023	4023	Tree
3963	4635.9	-128.0	17.03	2.54%	3713	3853	3962	4040	4023	4023	Floodlight
3988	4852.3	-139.9	19.44	2.16%	3774	3944	4023	4023	4023	4023	Vent atop building
3989	4980.1	-167.2	21.94	2.13%	3748	3940	4023	4023	4023	4023	Light Pole
3991	5150.5	131.0	26.33	2.20%	3648	3879	4050	4023	4023	4023	Tree
3996	4215.8	-110.1	6.06	2.38%	3974	4009	4037	4023	4023	4023	Road surface plus 4.3m as per RMS instructions (plus 4.3m)
3997	4215.8	0.0	6.05	2.37%	3974	4010	4037	4023	4023	4023	Road surface plus 4.3m as per RMS instructions (plus 4.3m)
3998	4216.4	109.7	6.04	2.35%	3975	4011	4038	4023	4023	4023	Road surface plus 4.3m as per RMS instructions (plus 4.3m)
4461	4888.9	-102.1	19.64	2.09%	3797	3970	4023	4023	4023	4023	Tree
4462	4925.4	-155.7	19.72	2.01%	3828	4001	4023	4023	4023	4023	SW corner 'The Good Guys' building
4463	4899.0	-194.7	20.84	2.20%	3736	3917	4048	4023	4023	4023	Vent on eastern side of Decathlon Sports Warehouse
4465	4945.3	-191.3	20.14	2.01%	3822	3998	4023	4023	4023	4023	Air conditioning unit atop 'The Good Guy' building
4467	5200.9	-100.9	26.82	2.15%	3668	3904	4023	4023	4023	4023	Tree
4726	4584.2	-85.1	15.19	2.45%	3772	3900	3992	4023	4023	4023	Palm Tree
4730	4789.8	158.0	19.50	2.35%	3712	3878	4001	4023	4023	4023	Shipping container
4731	4834.5	130.7	20.68	2.37%	3685	3860	3993	4023	4023	4023	Shipping container
4732	4858.3	170.2	19.93	2.20%	3752	3925	4049	4023	4023	4023	Shipping container
4733	4933.8	120.1	20.12	2.04%	3811	3989	4023	4023	4023	4023	Shipping container
4757	4340.8	-49.4	8.91	2.34%	3921	3986	4032	4023	4023	4023	Shrub
4758	4326.5	-52.6	8.81	2.42%	3913	3977	4023	4023	4023	4023	Shrub
4783	4726.8	-161.5	15.98	2.05%	3863	3999	4023	4023	4023	4023	Structure
4785	4799.4	-127.4	19.48	2.32%	3723	3888	4011	4023	4023	4023	Tree
4787	5227.4	3.4	24.59	1.91%	3826	4045	4023	4023	4023	4023	Flood Light
4788	6005.1	114.9	37.25	1.80%	3812	4023	4023	4023	4023	4023	Mobile Phone Tower
4789	7555.3	256.2	54.25	1.49%	4023	4023	4023	4023	4023	4023	Tree

Sydney Airport
2019 STODAs (Mar 2020)
Runway 34L
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4945	4788.0	-64.0	17.84	2.13%	3808	3965	4023	4023	4023	4023	Tallest of a grove of trees
5269	7656.4	-425.7	54.66	1.46%	4023	4023	4023	4023	4023	4023	House
5270	7642.7	-344.0	56.18	1.50%	4023	4023	4023	4023	4023	4023	House
5271	7731.6	-424.7	57.55	1.50%	4023	4023	4023	4023	4023	4023	House
5312	7612.3	-519.8	56.10	1.51%	4023	4023	4023	4023	4023	4023	Tree
5313	7663.3	-455.8	64.13	1.72%	3791	4023	4023	4023	4023	4023	Tree
5314	7602.6	-443.9	57.21	1.55%	4023	4023	4023	4023	4023	4023	Tree
5315	7552.9	-348.7	55.83	1.53%	4023	4023	4023	4023	4023	4023	Tree
5316	7612.6	-394.9	60.21	1.63%	3985	4023	4023	4023	4023	4023	Tree
5317	7595.3	-340.8	55.99	1.52%	4023	4023	4023	4023	4023	4023	Tree
5318	7719.8	-337.2	59.93	1.57%	4023	4023	4023	4023	4023	4023	Tree
5319	7764.8	-267.1	57.49	1.49%	4023	4023	4023	4023	4023	4023	Tree
5320	7756.8	-147.9	58.82	1.53%	4023	4023	4023	4023	4023	4023	Tree
5321	7759.7	-186.2	60.41	1.57%	4023	4023	4023	4023	4023	4023	Tree
5418	4586.4	-127.5	15.84	2.56%	3736	3866	3966	4038	4023	4023	Shrub
5419	4344.1	-107.5	9.32	2.45%	3898	3969	4017	4023	4023	4023	Shrub
5422	4391.6	-127.0	12.75	3.12%	3735	3834	3911	3969	4023	4023	Shrub
5423	4383.3	-101.8	12.75	3.20%	3727	3826	3903	3961	4023	4023	Shrub
5424	4386.2	-97.9	12.62	3.13%	3738	3836	3912	3969	4023	4023	Shrub
5425	4389.9	-64.5	10.64	2.51%	3860	3945	4004	4049	4023	4023	Shrub
5430	4404.3	-132.5	13.01	3.08%	3731	3833	3912	3971	4023	4023	Shrub
5433	4440.1	-134.0	14.08	3.07%	3702	3813	3899	3964	4023	4023	Shrub
5469	4052.9	-89.1	2.74	142.59%	4015	4021	4025	4028	4034	4040	Frangible bollard
5471	4314.0	42.0	7.14	1.90%	4002	4050	4023	4023	4023	4023	Floodlight
5472	4380.1	91.4	8.55	1.94%	3982	4042	4023	4023	4023	4023	Floodlight
5475	4434.6	-107.2	13.61	2.99%	3725	3832	3915	3977	4023	4023	Shrub
5476	4476.8	-94.7	14.06	2.80%	3738	3850	3937	4000	4023	4023	Shrub
5477	4608.4	-53.8	14.38	2.20%	3844	3967	4051	4023	4023	4023	Shrub
5478	5256.9	110.7	26.08	1.98%	3765	3998	4023	4023	4023	4023	Palm Tree
5479	5209.8	-12.1	26.05	2.06%	3722	3954	4023	4023	4023	4023	Tree
5480	5388.0	-36.6	29.32	2.03%	3698	3960	4023	4023	4023	4023	Tree
5481	5486.3	-9.5	30.38	1.97%	3728	4001	4023	4023	4023	4023	Tree
9434	4884.6	-61.8	13.43	1.35%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9439	4907.0	-98.9	16.21	1.64%	4027	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9445	4939.3	-118.5	16.91	1.66%	4016	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9447	4958.2	-128.8	17.10	1.65%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9449	4898.8	-73.9	15.17	1.53%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9455	4896.3	-71.1	14.89	1.51%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9456	4660.1	-69.9	14.89	2.09%	3864	3990	4023	4023	4023	4023	Road Crown (plus 4.6m)
9461	4913.0	-104.7	16.52	1.67%	4014	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9462	4921.4	-109.2	16.76	1.68%	4008	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9463	4903.1	-91.2	15.79	1.60%	4049	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9467	4967.0	-133.5	17.09	1.63%	4032	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9477	4948.7	-123.8	17.04	1.66%	4017	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9481	4605.8	-158.4	16.96	2.67%	3688	3827	3934	4013	4023	4023	Road Crown (plus 4.6m)
9482	4929.7	-113.5	16.84	1.67%	4011	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9486	4865.7	-52.4	12.46	1.26%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9487	4900.8	-82.9	15.41	1.56%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9488	4874.5	-56.9	12.96	1.31%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9491	4890.3	-65.8	14.14	1.43%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9494	4689.7	-19.5	10.39	1.29%	4023	4023	4023	4023	4023	4023	Road Crown (plus 4.6m)
9518	4836.5	-118.4	18.80	2.12%	3797	3963	4023	4023	4023	4023	Vent atop building

* Obstacle excluded from critical calculations.

Sydney Airport

2019 STODAs (Mar 2020)

Runway 34R

Obstacle Database: 200219

Summary of STODAs											
Max Grade	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%					
ID	Grade	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
4026	4.22%	2816	1548	2816	2025	418	2292	4509	2389	4026	2479

Worst STODAs											
1.60%	1.90%	2.20%	2.50%	3.33%	5.00%						
ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)	ID	Length (m)
2816	1548	2816	2025	418	2292	4509	2389	4026	2479	-	2498
4781	1554	4781	2041	4349	2307	4349	2390	4030	2492	-	2498
2818	1574	2818	2049	4509	2307	4486	2394	-	2498	-	2498
1189	1695	1189	2141	4486	2315	4351	2398	-	2498	-	2498
4365	1737	418	2155	4351	2317	418	2400	-	2498	-	2498
5394	1866	4349	2200	4347	2321	4339	2401	-	2498	-	2498
6604	1910	4509	2202	4339	2321	4347	2401	-	2498	-	2498
418	1963	4486	2211	5414	2328	5414	2402	-	2498	-	2498
4214	2045	4351	2212	3093	2336	3093	2409	-	2498	-	2498
4349	2056	4347	2215	5413	2341	5413	2413	-	2498	-	2498

Worst		Grades					
ID	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%
4026	4.22%	2413	2434	2448	2459	2479	2500
4030	3.26%	2409	2437	2454	2468	2492	2518
4509	3.08%	2061	2202	2307	2389	2520	2528
4349	3.06%	2056	2200	2307	2390	2522	2528
4486	3.06%	2074	2211	2315	2394	2522	2528
5414	3.05%	2103	2230	2328	2402	2521	2528
4351	3.03%	2073	2212	2317	2398	2526	2528
3093	3.01%	2111	2237	2336	2409	2525	2528
4339	3.01%	2076	2215	2321	2401	2528	2528
4347	3.00%	2075	2215	2321	2401	2528	2528

ID	Ch	OS	RL	MAX	1.60%	1.90%	2.20%	2.50%	3.33%	5.00%	Description
418	3175.0	132.0	24.36	2.86%	1963	2155	2292	2400	2528	2528	Tree
424	2996.1	-68.1	17.35	2.48%	2220	2345	2434	2492	2528	2528	Flood light
590	2857.6	89.1	12.25	2.02%	2404	2470	2510	2528	2528	2528	Flood light atop advertising sign
658	3231.6	-53.1	15.25	1.40%	2528	2528	2528	2528	2528	2528	Light Pole
662	3207.2	-64.0	14.89	1.40%	2528	2528	2528	2528	2528	2528	Light Pole
664	3257.7	-106.0	15.18	1.34%	2528	2528	2528	2528	2528	2528	Light Pole
666	3220.9	-104.2	14.26	1.28%	2528	2528	2528	2528	2528	2528	Light Pole
668	3274.5	-129.7	15.46	1.35%	2528	2528	2528	2528	2528	2528	Light Pole
670	3336.3	-157.5	15.47	1.25%	2528	2528	2528	2528	2528	2528	Light Pole
672	3295.2	-154.2	15.35	1.30%	2528	2528	2528	2528	2528	2528	Light Pole
674	3272.2	-165.3	15.46	1.35%	2528	2528	2528	2528	2528	2528	Light Pole
676	3333.5	-191.7	15.21	1.22%	2528	2528	2528	2528	2528	2528	Light Pole
678	3291.7	-188.3	15.33	1.30%	2528	2528	2528	2528	2528	2528	Light Pole
766	7190.2	591.2	68.76	1.36%	2528	2528	2528	2528	2528	2528	Mobile Phone Tower atop building (lit)
1145	2829.4	-117.0	11.49	1.96%	2423	2479	2515	2528	2528	2528	Perimeter Fence Floodlight
1146	2835.5	-93.1	11.68	1.98%	2418	2476	2513	2528	2528	2528	Perimeter Fence Floodlight
1147	2851.6	-73.0	11.68	1.89%	2433	2488	2524	2528	2528	2528	Perimeter Fence Floodlight
1148	2863.4	-51.8	11.76	1.85%	2440	2494	2528	2528	2528	2528	Perimeter Fence Floodlight
1149	2864.8	-26.2	11.71	1.83%	2443	2497	2528	2528	2528	2528	Perimeter Fence Floodlight
1150	2854.8	-2.2	11.21	1.74%	2462	2508	2528	2528	2528	2528	Perimeter Fence Floodlight
1151	2849.0	26.2	10.57	1.59%	2488	2527	2528	2528	2528	2528	Perimeter Fence Floodlight
1152	2820.9	18.3	10.53	1.72%	2469	2510	2528	2528	2528	2528	Perimeter Fence Floodlight
1189	4445.2	220.6	48.76	2.25%	1695	2141	2453	2528	2528	2528	SE Corner Stamford Hotel
1239	3168.4	144.5	18.52	2.02%	2321	2454	2528	2528	2528	2528	CHIMNEY
1241	3180.8	169.5	22.67	2.59%	2076	2246	2377	2470	2528	2528	TREE
1249	4021.0	-87.0	25.35	1.34%	2528	2528	2528	2528	2528	2528	FLOOD LIGHT
1250	4011.0	-63.1	25.38	1.35%	2528	2528	2528	2528	2528	2528	FLOOD LIGHT
1251	4001.9	-39.5	25.50	1.36%	2528	2528	2528	2528	2528	2528	FLOOD LIGHT
1374	3282.2	91.3	16.35	1.45%	2528	2528	2528	2528	2528	2528	Flood Light
1375	3282.3	142.5	16.47	1.46%	2528	2528	2528	2528	2528	2528	Flood Light
1381	2950.1	115.2	17.60	2.79%	2161	2283	2377	2445	2528	2528	Flood Light
1503	4047.6	-177.2	35.17	1.95%	2160	2456	2528	2528	2528	2528	Southern edge of steel light frame support atop floodlight pole
1516	4208.9	-291.7	35.19	1.77%	2320	2528	2528	2528	2528	2528	Flood Light
1554	2534.9	-91.8	6.25	3.42%	2453	2465	2472	2478	2490	2503	Demountable building
1778	4030.9	278.5	30.72	1.68%	2423	2528	2528	2528	2528	2528	Lightning rod atop floodlight pole
1808	4869.5	72.7	45.00	1.69%	2369	2528	2528	2528	2528	2528	BLDG
1809	5081.3	409.9	48.00	1.67%	2394	2528	2528	2528	2528	2528	Lightening conductor atop building
1810	5186.7	367.8	42.00	1.38%	2528	2528	2528	2528	2528	2528	BLDG
1811	5228.9	303.8	43.50	1.41%	2528	2528	2528	2528	2528	2528	BLDG
1821	3979.7	-199.1	24.69	1.33%	2528	2528	2528	2528	2528	2528	Flood Light pole
1822	4056.3	162.0	30.73	1.65%	2446	2528	2528	2528	2528	2528	Flood Light
1823	4051.4	200.9	30.64	1.65%	2446	2528	2528	2528	2528	2528	Flood Light
2190	2940.4	-49.3	17.43	2.81%	2162	2282	2375	2442	2528	2528	Needle Pine
2326	2787.8	115.8	10.70	1.97%	2431	2479	2511	2528	2528	2528	Street Light
2328	2768.8	118.8	10.29	1.96%	2438	2481	2511	2528	2528	2528	Street Light
2418	2943.2	-11.0	17.02	2.70%	2189	2308	2397	2459	2528	2528	Sheoak
2420	2964.2	47.0	17.91	2.77%	2156	2281	2377	2446	2528	2528	Tallest of a grove of trees
2422	2965.1	21.8	18.02	2.79%	2150	2275	2373	2443	2528	2528	Tallest of a grove of trees
2594	2914.1	-97.4	15.14	2.44%	2275	2380	2451	2497	2528	2528	Tree
2610	3035.1	127.4	19.33	2.67%	2139	2277	2384	2459	2528	2528	Tree
2624	3060.2	-131.9	20.09	2.69%	2117	2261	2374	2454	2528	2528	Tree
2626	3011.9	23.9	15.81	2.11%	2335	2442	2505	2528	2528	2528	Street light
2628	3000.3	-27.2	15.50	2.09%	2343	2446	2507	2528	2528	2528	Street light
2630	3011.3	137.4	17.43	2.42%	2229	2357	2445	2501	2528	2528	Street light
2634	3059.8	108.8	20.45	2.75%	2094	2241	2357	2441	2528	2528	Tree
2638	3095.7	-135.6	15.60	1.78%	2432	2515	2528	2528	2528	2528	Flood light
2640	3134.0	-136.6	19.64	2.30%	2215	2363	2464	2527	2528	2528	Tree

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2642	3161.5	-139.2	16.99	1.81%	2412	2510	2528	2528	2528	2528	Tree
2644	3179.0	-166.7	16.14	1.64%	2474	2528	2528	2528	2528	2528	Flood light
2648	3264.9	12.7	17.00	1.57%	2497	2528	2528	2528	2528	2528	Flood light
2650	3250.2	-0.4	15.50	1.40%	2528	2528	2528	2528	2528	2528	Light pole
2652	3257.7	133.8	17.20	1.61%	2483	2528	2528	2528	2528	2528	Flood light
2654	3297.3	-122.3	15.55	1.32%	2528	2528	2528	2528	2528	2528	Flood light
2656	3331.2	-59.5	16.00	1.32%	2528	2528	2528	2528	2528	2528	Flood light
2658	3272.6	67.9	18.30	1.72%	2440	2528	2528	2528	2528	2528	Tree
2660	3324.9	188.7	16.00	1.33%	2528	2528	2528	2528	2528	2528	Flood light
2662	4062.4	223.7	28.00	1.47%	2528	2528	2528	2528	2528	2528	Tree
2666	4178.3	-8.0	35.32	1.81%	2278	2528	2528	2528	2528	2528	SE corner eastern most MSCP T2
2676	4212.1	-90.7	27.55	1.32%	2528	2528	2528	2528	2528	2528	SE corner MSCP T2
2678	4217.2	-102.1	32.80	1.62%	2472	2528	2528	2528	2528	2528	Flood light
2680	4246.5	-174.6	32.80	1.59%	2493	2528	2528	2528	2528	2528	Flood light
2682	4244.9	-85.9	32.00	1.55%	2525	2528	2528	2528	2528	2528	Flood light
2684	4243.7	-89.6	28.70	1.36%	2528	2528	2528	2528	2528	2528	Building atop MSCP T2
2686	4239.7	-129.4	28.40	1.34%	2528	2528	2528	2528	2528	2528	Building atop MSCP T2
2688	4207.2	166.0	27.00	1.29%	2528	2528	2528	2528	2528	2528	Tree
2690	4329.3	23.4	29.70	1.35%	2528	2528	2528	2528	2528	2528	Mobile phone tower
2692	4628.9	-186.9	42.75	1.77%	2264	2528	2528	2528	2528	2528	Flood light
2694	4716.2	-152.8	43.30	1.73%	2320	2528	2528	2528	2528	2528	Flood light
2816	4446.5	220.1	51.00	2.36%	1548	2025	2355	2528	2528	2528	BMU Window Washing Unit
2818	4465.8	195.4	50.91	2.33%	1574	2049	2379	2528	2528	2528	Stamford Hotel Plant Room
3092	2903.3	74.4	17.02	2.97%	2151	2266	2356	2422	2526	2528	Tree
3093	2938.0	-98.1	18.23	3.01%	2111	2237	2336	2409	2525	2528	Tree
3096	3273.2	88.2	18.52	1.75%	2427	2528	2528	2528	2528	2528	Tree
3099	3368.5	106.5	15.91	1.26%	2528	2528	2528	2528	2528	2528	light pole long term carpark
3482	2901.8	64.8	15.51	2.61%	2239	2348	2423	2475	2528	2528	Tree
3483	2910.9	57.7	16.05	2.68%	2216	2327	2408	2465	2528	2528	Tallest of a grove of trees
3484	2909.3	70.5	17.28	2.99%	2141	2258	2351	2418	2525	2528	Tree
3485	2932.6	81.9	15.34	2.38%	2282	2388	2459	2505	2528	2528	Tree
3486	2947.9	61.6	17.10	2.69%	2189	2308	2398	2461	2528	2528	Tree
3506	2725.4	86.7	9.38	1.93%	2449	2484	2509	2528	2528	2528	Tree
3510	2932.0	-113.7	16.15	2.57%	2230	2344	2425	2479	2528	2528	Tree
3512	2746.9	102.0	11.16	2.48%	2361	2422	2463	2491	2528	2528	Tree
3514	2777.3	108.3	11.33	2.27%	2382	2443	2481	2509	2528	2528	Tree
3590	5350.5	364.9	52.00	1.65%	2413	2528	2528	2528	2528	2528	PROPERTY DEVELOPMENT
3925	3099.0	85.4	19.44	2.41%	2193	2338	2441	2507	2528	2528	Tree
3927	3014.1	73.5	17.75	2.47%	2213	2342	2434	2494	2528	2528	Tree
4002	2517.1	-14.5	6.67	8.84%	2412	2429	2440	2448	2464	2480	HIAL
4012	2517.0	0.7	6.67	8.85%	2412	2429	2440	2448	2464	2480	HIAL
4022	2517.0	15.9	6.67	8.86%	2412	2429	2440	2448	2464	2480	HIAL
4026	2550.5	1.4	7.20	4.22%	2413	2434	2448	2459	2479	2500	HIAL
4030	2583.6	1.5	7.78	3.26%	2409	2437	2454	2468	2492	2518	HIAL
4032	2616.8	1.4	8.34	2.82%	2408	2440	2461	2477	2506	2528	HIAL
4036	2650.0	-0.1	8.85	2.55%	2409	2445	2470	2487	2520	2528	HIAL
4040	2683.2	-18.0	9.41	2.39%	2407	2449	2476	2496	2528	2528	HIAL
4054	2683.1	1.4	9.41	2.39%	2407	2449	2476	2496	2528	2528	HIAL
4066	2683.2	19.4	9.44	2.41%	2405	2447	2475	2495	2528	2528	HIAL
4069	2667.0	-25.9	7.67	1.59%	2487	2507	2523	2528	2528	2528	Obstruction Light (Lit 1/1)
4070	2716.0	1.5	9.96	2.28%	2405	2452	2482	2504	2528	2528	HIAL
4071	2667.0	26.1	7.67	1.59%	2487	2507	2523	2528	2528	2528	Obstruction Light (Lit 1/1)
4074	2748.7	1.5	10.53	2.21%	2403	2454	2487	2511	2528	2528	HIAL
4078	2781.4	1.4	11.05	2.14%	2403	2459	2494	2520	2528	2528	HIAL
4082	2814.1	1.4	11.59	2.09%	2402	2463	2500	2528	2528	2528	HIAL
4084	2846.7	-21.8	12.17	2.06%	2398	2465	2505	2528	2528	2528	HIAL
4100	2846.9	1.4	12.17	2.06%	2398	2465	2505	2528	2528	2528	HIAL
4114	2846.8	23.2	12.17	2.06%	2398	2465	2505	2528	2528	2528	HIAL
4118	2880.6	0.7	12.68	2.01%	2400	2470	2513	2528	2528	2528	HIAL
4124	2914.4	0.6	13.25	1.98%	2398	2473	2518	2528	2528	2528	HIAL
4129	4462.6	-130.0	40.77	1.82%	2222	2528	2528	2528	2528	2528	Railing on Roof
4130	2948.1	0.7	13.81	1.96%	2397	2477	2524	2528	2528	2528	HIAL
4136	2982.2	0.7	14.42	1.95%	2393	2478	2528	2528	2528	2528	HIAL
4140	3018.9	-27.0	14.42	1.81%	2429	2505	2528	2528	2528	2528	HIAL
4149	2670.3	-85.6	8.14	1.83%	2468	2492	2510	2524	2528	2528	Aerial atop shed
4158	3018.8	0.7	14.42	1.81%	2429	2505	2528	2528	2528	2528	HIAL
4176	3018.9	28.3	14.42	1.81%	2429	2505	2528	2528	2528	2528	HIAL
4180	3046.8	0.7	14.38	1.71%	2456	2525	2528	2528	2528	2528	HIAL
4186	3074.9	0.7	14.37	1.63%	2479	2528	2528	2528	2528	2528	HIAL
4192	3102.8	0.7	14.38	1.55%	2498	2528	2528	2528	2528	2528	HIAL
4198	3130.7	0.7	14.36	1.48%	2517	2528	2528	2528	2528	2528	HIAL
4204	3158.8	0.7	14.39	1.42%	2528	2528	2528	2528	2528	2528	HIAL
4205	2865.0	-7.2	10.07	1.39%	2519	2528	2528	2528	2528	2528	Gate 16 Access Road Crown (plus 4.6m)
4208	4385.1	-324.6	39.70	1.84%	2212	2528	2528	2528	2528	2528	Obstruction Light (Lit 1/1)
4210	4388.7	-324.6	39.78	1.84%	2211	2528	2528	2528	2528	2528	Obstruction Light (Lit 1/1)
4212	4291.8	-305.1	40.67	1.99%	2062	2414	2528	2528	2528	2528	Obstruction Light (Lit 1/1)
4214	4289.2	-307.5	40.90	2.01%	2045	2399	2528	2528	2528	2528	Obstruction Light (Lit 1/1)
4301	2912.6	90.7	16.40	2.75%	2197	2310	2394	2454	2528	2528	Light Pole
4303	2872.7	97.1	14.43	2.52%	2279	2376	2443	2487	2528	2528	Light Pole
4333	2876.1	126.1	15.98	2.91%	2187	2295	2376	2436	2528	2528	Light Pole
4335	2901.5	132.6	13.00	1.99%	2401	2474	2517	2528	2528	2528	Light Pole
4337	2912.9	119.3	16.23	2.71%	2207	2320	2402	2460	2528	2528	Light Pole
4339	2978.8	64.2	19.44	3.01%	2076	2215	2321	2401	2528	2528	Light Pole
4341	2976.8	19.6	18.31	2.78%	2144	2272	2371	2443	2528	2528	Light Pole
4343	2975.0	-22.9	17.02	2.52%	2219	2342	2428	2486	2528	2528	Light Pole
4345	2973.2	-65.3	15.84	2.28%	2291	2402	2474	2520	2528	2528	Light Pole
4347	2981.6	89.0	19.50	3.00%	2075	2215	2321	2401	2528	2528	Light Pole
4349	2982.2	117.3	19.80	3.06%	2056	2200	2307	2390	2522	2528	Light Pole
4351	2974.9	144.0	19.42	3.03%	2073	2212	2317	2398	2526	2528	Light Pole
4361	4508.9	-243.7	39.70	1.73%	2339	2528	2528	2528	2528	2528	Building
4365	4955.1	33.9	56.28	2.09%	1737	2251	2528	2528	2528	2528	Antenna (Lit 0/2)
4393	2815.5	-57.0	8.87	1.22%	2528	2528	2528	2528	2528	2528	Top of Bank

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4395	2812.6	-74.7	8.94	1.26%	2528	2528	2528	2528	2528	2528	Top of Bank
4397	2809.3	-88.2	8.80	1.22%	2528	2528	2528	2528	2528	2528	Top of Bank
4405	2819.8	-59.2	9.92	1.53%	2495	2528	2528	2528	2528	2528	Pole
4407	2964.9	-46.6	11.31	1.35%	2528	2528	2528	2528	2528	2528	Road Edge (South) (plus 4.4m)
4409	2966.0	-22.7	12.02	1.50%	2505	2528	2528	2528	2528	2528	Road Edge (South) (plus 4.4m)
4411	2966.9	1.6	12.72	1.65%	2475	2528	2528	2528	2528	2528	Road Edge (South) (plus 4.4m)
4413	2968.2	26.1	13.47	1.81%	2438	2504	2528	2528	2528	2528	Road Edge (South) (plus 4.4m)
4415	2969.4	51.2	14.21	1.96%	2394	2477	2526	2528	2528	2528	Road Edge (South) (plus 4.4m)
4417	2970.2	76.5	14.84	2.09%	2355	2450	2507	2528	2528	2528	Road Edge (South) (plus 4.4m)
4419	2971.8	99.6	15.10	2.13%	2339	2439	2499	2528	2528	2528	Road Edge (South) (plus 4.4m)
4421	2973.1	125.2	15.07	2.12%	2343	2442	2501	2528	2528	2528	Road Edge (South) (plus 4.4m)
4423	2973.2	145.2	14.83	2.07%	2358	2453	2509	2528	2528	2528	Road Edge (South) (plus 4.4m)
4440	2677.9	-0.1	8.30	1.85%	2466	2491	2510	2525	2528	2528	RWY 16L Localiser Far Field Centreline Monitor Antenna
4441	2677.9	-63.7	8.52	1.96%	2454	2483	2503	2518	2528	2528	RWY 16L Localiser Far Field Displacement Sensitivity Monitor Antenna
4446	2927.7	89.4	15.51	2.45%	2265	2374	2448	2496	2528	2528	Tree
4484	2905.9	127.3	14.22	2.26%	2328	2420	2479	2518	2528	2528	Tree
4485	2921.2	135.8	16.14	2.64%	2220	2334	2414	2471	2528	2528	Tree
4486	2963.6	143.5	19.22	3.06%	2074	2211	2315	2394	2522	2528	Tree
4487	2959.5	82.8	17.57	2.73%	2172	2295	2388	2454	2528	2528	Tree
4492	4182.6	-13.9	38.75	2.00%	2073	2406	2528	2528	2528	2528	Multi Storey Carpark
4493	4295.5	297.3	40.02	1.95%	2107	2450	2528	2528	2528	2528	Mantra Hotel
4509	2970.6	127.8	19.54	3.08%	2061	2202	2307	2389	2520	2528	Tree
4595	5617.0	422.3	51.19	1.48%	2528	2528	2528	2528	2528	2528	Apartment
4737	2992.8	-118.9	15.07	2.04%	2363	2459	2515	2528	2528	2528	Floodlight
4741	8928.0	772.6	82.60	1.21%	2528	2528	2528	2528	2528	2528	Brick Chimney
4773	8580.8	542.9	82.00	1.27%	2528	2528	2528	2528	2528	2528	Church Crux
4781	4519.8	169.2	52.08	2.33%	1554	2041	2379	2528	2528	2528	BUILDING (Lit) Airport Central
4807	7083.0	373.7	66.50	1.34%	2528	2528	2528	2528	2528	2528	Chimney
4832	4947.1	378.9	51.00	1.88%	2071	2507	2528	2528	2528	2528	Building
4833	5373.6	434.0	50.84	1.59%	2493	2528	2528	2528	2528	2528	Building
4864	6841.0	153.0	68.00	1.45%	2528	2528	2528	2528	2528	2528	Crane
5394	5310.5	341.1	60.00	1.96%	1866	2415	2528	2528	2528	2528	Tower Crane
5409	2634.7	103.2	7.74	2.01%	2459	2481	2497	2510	2528	2528	Tree
5410	2752.4	95.6	10.72	2.25%	2395	2449	2484	2509	2528	2528	Tree
5411	2745.6	88.1	10.51	2.23%	2401	2453	2486	2510	2528	2528	Tree
5412	2807.1	112.3	11.89	2.23%	2376	2443	2485	2514	2528	2528	Tree
5413	2936.9	-67.3	18.09	2.99%	2118	2243	2341	2413	2527	2528	Tree
5414	2935.7	-75.4	18.33	3.05%	2103	2230	2328	2402	2521	2528	Tree
5415	2988.7	-96.1	12.16	1.46%	2514	2528	2528	2528	2528	2528	Sign
5461	2686.4	111.7	8.80	2.03%	2446	2478	2500	2516	2528	2528	Tree
5462	2703.6	108.7	9.11	2.01%	2445	2479	2502	2520	2528	2528	Tree
5466	3271.8	132.6	19.85	1.92%	2343	2481	2528	2528	2528	2528	Tree
5467	3273.9	149.8	17.61	1.63%	2477	2528	2528	2528	2528	2528	Tree
5468	3275.7	187.0	22.80	2.29%	2161	2338	2463	2528	2528	2528	Tree
5494	3355.1	52.3	16.69	1.37%	2528	2528	2528	2528	2528	2528	Light Pole
5495	3358.1	85.9	16.72	1.36%	2528	2528	2528	2528	2528	2528	Light Pole
6604	4830.0	273.7	51.65	2.00%	1910	2374	2528	2528	2528	2528	Lightning Rod atop Apartments
9076	3568.5	20.5	18.90	1.30%	2528	2528	2528	2528	2528	2528	25 Glide Path cnr nearest RWY (lit)
9080	3320.8	141.5	16.40	1.39%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9081	3370.7	137.3	16.10	1.27%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9087	3317.3	90.3	16.28	1.38%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9089	3358.9	38.2	15.76	1.25%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9092	3381.3	-62.5	15.87	1.23%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9093	3384.0	-9.1	15.96	1.24%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9094	3334.1	-5.9	16.02	1.32%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9095	3339.3	-120.6	15.30	1.23%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9097	3281.5	-56.2	15.85	1.39%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9098	3284.3	-3.5	15.77	1.37%	2528	2528	2528	2528	2528	2528	light pole long term carpark
9111	4045.9	125.8	30.66	1.66%	2441	2528	2528	2528	2528	2528	light pole long term carpark
9112	4057.6	96.2	32.50	1.76%	2338	2528	2528	2528	2528	2528	light pole long term carpark
9113	4080.5	57.3	31.01	1.64%	2451	2528	2528	2528	2528	2528	light pole long term carpark
9114	4099.0	16.9	30.60	1.60%	2486	2528	2528	2528	2528	2528	light pole long term carpark
9538	3041.5	56.7	17.14	2.24%	2278	2402	2482	2528	2528	2528	TREE
9539	3086.6	93.4	20.39	2.62%	2124	2272	2387	2467	2528	2528	TREE

* Obstacle excluded from critical calculations.