I first present a list of just over a hundred sumgrams (words with equal numerical value) of the longest words I was able to conquer. Note that one pair of reasonably common words could be construed as opposites: EXTRAORDINARINESS and STRAIGHTFORWARDNESS. Note also that all pairs of words with endings -IST and -ISMS are sumgrams, as the values of M and S sum to the value of T. I have included the longest such specimens in my list.

80.5 apocalyptically, diffrangibility
86.3 homochlamydeous, lexicographical
88.3 microphotograph, vicissitudinous
89.0 anthropopsychic, inadmissibility, compressibility, photoconducting
89.5 hypnotisability, quintuplication
90.7 dolichocephalic, micromicrocurie
91.5 jurisprudential, Marsipobranchii
91.6 amaryllidaceous, bacchanalianism, appropripation
91.7 excommunication, numismatologist, untrustworthily
91.9 circumforaneous, diamagnetically, disquisitionary, sanctimoniously
92.7 arboriculturist, chamberlainship
93.1 ankylostomiasis, condescendingly
93.5 distinguishing, geomorphologist, hobbledshyhood
94.0 cholecystectomy, Chondropterygii
94.2 allotromorphic, circumincision, destructibility
94.4 circumstantial, commnalisation, dieselhydraulic, homeopathically, idiosyncratical
95.0 caprifoliaceous, carpometacarpus
95.4 disgracefulnee, mistrustfulness
95.8 cerebrovascular, diaphragmatitis
96.6 ichthyodorylite, lithochromatics, objectification
96.7 paradoxicalness, phantasomagorical
96.9 disadvantageous, distrustfulness, ecclesiological
97.4 argumentatively, chondrification
97.6 dysteleological, justifiableness
97.9 disinflationary, formularisation, ichthyodorulite
98.1 acknowledgement, developmentally
98.4 compassionately, decalcification
98.9 geochronologist, inappropriately, malassimilation, micromillimetre, photomechanical
99.1 antimonarchical, coconsciousness, discomendation, schoolmastering
100.0 anthropopathtism, epistemological
100.2 diversification, multiarticulate, neighbourliness
100.4 anticlericalism, complementarity, ergatandromorph, helminthologist
100.6 acquisitiveness, democratifiable
100.7 disagreeability, illustriousness, notwithstanding
100.9 extraordinarily, microdissection
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101.4 acclimatisation, antichristianly, bioastronautics, doctrinarianism, Frenchification, lophobranchiate
101.7 asclepiadaceous, Christadelphian
101.9 bioluminescence, decarburisation
102.0 commendableness, diheliotropism
102.4 discretionarily, dissatisfaction, intransmissible
102.8 anaerootically, chrestaesthesial, demonstratively
103.4 authoritatively, determinability, illimitableness, immortalisation
103.5 anthroposophist, computerisation
103.7 amphitheatrical, antivivisection
104.2 discontinuation, disorganisation
104.6 acknowledgements, adventurousness
104.8 apophthegmatise, conceivableness
105.0 historiographer, monocotyledones
105.2 annihilationism, cinematographer
105.4 circumstantiate, decolourisation
105.6 intrususcept, miniaturisation
107.3 apophthegmatists, archiepiscopate
107.6 Callitrichaceae, catechismalness
107.8 disafforestation, fashionableness
107.9 acclimatisations, anthropocentric
108.1 distastefulness, fragmentariness
108.8 historiographical, uncompromisingness, impressionability
109.0 cinematographical, comprehensibility
111.1 appropriateness, decontamination
111.3 anaesthetically, apophthegmatises
112.4 Aristotelianism, departmentalisms
113.5 electroconvulsive, electrometallurgy
113.9 assemblage, assemblage
114.3 overmultiplication, oversimplification
114.6 hydrotherapeutics, unconstitutionally
114.8 canisterisation, departmentalise
117.7 congregationalisms, congregationalist
120.3 exhibitionistically, schizophrenically
120.4 anthropomorphisms, disproportionately
121.7 constitutionalism, constitutionalist
122.1 electrocardiograms, physiotherapeutics
122.2 electrocardiograph, intercommunication
122.4 gentlewamanliness, underconsciousness
122.8 anthropomorphitisms, disproportionately, electromechanical
123.4 chiropterophilous, unconsciousness
123.8 incomprehensibility, uncontrollableness
124.4 argumentativeness, conscientiousness
124.7 incompressibilities, parallelogrammatical
124.9 comprehensiveness, consubstantiations
125.2 incommunicativeness, transmogrifications
126.5 antivivisectionisms, antivivisectionist
126.7 antivaccinationisms, antivaccinationist
127.9 extraordinariness, straightforwardness
128.8 cheiropterophilaus, unconscionableness
130.2 Constantinopolitan, undenaninationalism
If one assumes that the upper limit on the numerical value of any word is 200, then there are only 2000 different possible values that words can have, stretching from 0.1 to 200 in steps of 0.1. Assuming that Chambers English Dictionary, has about 250,000 words or, say, 500,000 when plurals, verb forms, comparatives and superlatives are taken into account, then these 500,000 words are spread over the 2000 sumgram values available. So, on average, there are 250 words per individual numerical value. Given the paucity of words with particularly high or low numerical values, there must be instances of well over a thousand words for certain numerical values. Challenge: find a numerical value for which there are more than a thousand words. Another challenge: find the highest numerical value at the low end of the range, and the lowest numerical value at the high end of the range, for which there exist no words.

I conclude with a table of record high-scoring and low-scoring words of various lengths found in Chambers.

<table>
<thead>
<tr>
<th>Low-scoring Words</th>
<th>High-scoring words</th>
</tr>
</thead>
<tbody>
<tr>
<td>KY (2.5)</td>
<td>EE (26)</td>
</tr>
<tr>
<td>ZUZ (3.5)</td>
<td>TEE (35)</td>
</tr>
<tr>
<td>BUZZ (5.0)</td>
<td>BUZZY (5.2)</td>
</tr>
<tr>
<td>JUGFUL (15.6)</td>
<td>JUG-JUG (9.6)</td>
</tr>
<tr>
<td>ZYMURGY (18.2)</td>
<td>ZYMURGY (18.2)</td>
</tr>
<tr>
<td>ZIGZAGGY (21.9)</td>
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<tr>
<td>BUZZINGLY (27.6)</td>
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<td>JUG-JUG (9.6)</td>
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<tr>
<td>BUZZ-WIG (15.9)</td>
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</tr>
<tr>
<td>TETE-A-TETE (96.5)</td>
<td>TETE-A-TETE (96.5)</td>
</tr>
</tbody>
</table>

If hyphenated words are allowed, improvements are possible with JUG-JUG (9.6), BUZZ-WIG (15.9), and TETE-A-TETE (96.5).