observing so faint an object. The period is likely to be about eleven years rather than half that quantity.

The descriptions given by the observers in 1869 apply almost exactly to the present object, except for the difference due to its greater proximity to the earth. In the last part of December 1869, the comet was reported as extremely faint, and could not be followed after December 31, when the light was about the same

as it will be at the present appearance at about December 29. It will probably be impossible to follow the comet at its present apparition much beyond Jan. 1, 1881, since at that time it will be rapidly increasing its geocentric distance.

From the above elements has been computed the following Ephemeris.

^{12h} Berlin time	α	δ	$\log r$	$\log \Delta$	Brightness
Nov. 14	23 ^h 45 ^m 21 ^s	+50°18'	0.04431	9.2610	2.9
16	0 08 41	52 07	0.04568	9.2588	
18	0 34 26	53 36	0.04742	9.2590	2.9
20	1 02 09	54 39	0.04952	9.2617	
22	1 30 58	55 15	0.05196	9.2670	2.7
24	1 59 53	55 20	0.05472	9.2748	
26	2 27 51	54 58	0.05780	9.2849	2.4
28	2 53 58	54 11	0.06116	9.2972	
30	3 17 44	53 04	0.06482	9.3115	2.1
Dec. 2	3 38 54	51 43	0.06874	9.3274	
4	3 57 29	50 12	0.07290	9.3448	1.7
6	4 13 41	48 36	0.07728	9.3634	
8	4 27 48	46 57	0.08188	9.3829	1.4
12	4 50 27	43 42	0.0916	9.4238	1.1
16	5 07 38	40 40	0.1020	9.4664	.9
20	5 20 52	37 56	0.1129	9.5095	.7
24	5 31 19	35 31	0.1241	9.5525	.5
28	5 39 43	33 24	0.1356	9.5950	.4
32	5 46 26	31 34	0.1473	9.6368	.3

The correction required by the above ephemeris on November 2 was + 8^s and -- 5'.

Dudley Observatory Albany, N. Y., November 3^d, 1880.

Lewis Boss, Director of Dudley Observatory.

Elements of Swift's Comet (*c* 1880.)

I send you elements of Swift's Comet calculated from three positions furnished me by Mr. S. C. Chandler jr, of this city. Two were obtained by himself and the other was furnished by the Harvard Observatory. In the computation they have been corrected for aberration and parallax. The elements show for the middle place

$$d\lambda \cos \beta = -16''$$

$$d\beta = +13''$$

and a third approximation would change them but slightly.

Observed Positions.

1880 Oct. 25	8 ^h 13 ^m 7	Boston Mean Time	app. R.A. 21 ^h 50 ^m 15 ^s 10	app. δ + 28°29'24''6
Nov. 2	7 4.4	, , ,	22 16 51.05	36 37 45.5
11 10 31	Cambridge	, , ,	23 17 45.561	47 8 42.95

E l e m e n t s.

$$T = 1880 \text{ November } 7.8714$$

$$\pi = 41^{\circ}51'9''$$

$$\Omega = 296^{\circ}33'29''$$

$$i = 7^{\circ}23'13''$$

} mean. equ. 1880.0

$$\log q = 0.042562. \quad \text{Motion direct.}$$

Boston, Nov. 19. 1880.

William Bellamy.