

Angle With Current

θ	I in μA	$\theta - \theta_{max}$	$\frac{I}{I_{max}}$
75.6	1.2	-5.4	0.044
76.0	1.6	-5.0	0.059
76.4	2.2	-4.6	0.081
76.6	2.8	-4.4	0.103
76.8	3.1	-4.2	0.114
77.0	3.4	-4.0	0.125
77.2	4.0	-3.8	0.147
77.4	5.0	-3.6	0.184
77.6	5.6	-3.4	0.206
77.8	6.4	-3.2	0.235
78.0	7.5	-3.0	0.276
78.2	9.1	-2.8	0.335
78.8	12.3	-2.2	0.452
79.0	14.4	-2.0	0.529
79.2	17.4	-1.8	0.640
79.8	20.6	-1.2	0.757
80.0	22.4	-1.0	0.824
80.2	23.2	-0.8	0.853
80.4	25.1	-0.6	0.923
80.6	26.1	-0.4	0.960
81.0	27.2	0.0	1.000
81.5	26.6	0.5	0.978
82.0	23.5	1.0	0.864
82.6	21.4	1.6	0.787
82.8	19.7	1.8	0.724
83.0	17.6	2.0	0.647
83.2	15.6	2.2	0.574
83.4	13.8	2.4	0.507
83.8	11.6	2.8	0.426
84.0	9.9	3.0	0.364
84.4	8.2	3.4	0.301
84.6	6.9	3.6	0.254
85.0	5.3	4.0	0.195
85.8	3.0	4.8	0.110

θ	I in μA	$\theta - \theta_{max}$	$\frac{I}{I_{max}}$
86.0	2.5	5.0	0.092
86.6	1.7	5.6	0.063
87.4	1.0	6.4	0.037

Numerical Aperture

z (cm)	d Diameter (cm)	r Radius (cm)	NA = $\frac{r}{\sqrt{r^2+z^2}}$
8.6	4.1	2.05	0.231875
9.6	4.6	2.30	0.232990
10.5	5.0	2.50	0.231621
11.3	5.6	2.80	0.240514
12.2	6.1	3.05	0.242536
13.1	6.6	3.30	0.244277
14.0	7.1	3.55	0.245792
14.9	7.5	3.75	0.244067
Average			0.239209