MagEIS Calibration Factors: Electron Histograms

June 18, 2021

Table 1 through Table 16 provide energy channel definitions and flux conversion factors for the histogram electron channels on both Probes.

Probe A (LOW)

Table 1: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (LOW-A): 16641.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	21.2	1.5 (20.2,21.7)	7.1	4.383E-03	2.922E-03	0.8
1	P1	22.4	1.3 (21.4,22.7)	5.8	4.412E-03	3.394E-03	0.5
2	P1	23.5	1.6 (22.4,24.0)	6.8	4.366E-03	2.729E-03	0.5
3	P1	24.6	1.6 (23.5,25.1)	6.5	4.337E-03	2.711E-03	0.5
4	P1	25.7	1.4 (24.6,26.0)	5.4	4.254E-03	3.039E-03	0.5
5	P2	30.8	1.4 (29.8,31.2)	4.5	3.798E-03	2.713E-03	0.5
6	P2	31.9	1.5 (30.8,32.3)	4.7	3.872E-03	2.581E-03	0.5
7	P2	33.0	1.5 (31.9,33.4)	4.5	3.889E-03	2.593E-03	0.5
8	P2	34.2	1.6 (33.0,34.6)	4.7	3.855E-03	2.409E-03	0.7
9	P2	34.9	1.1 (34.2,35.3)	3.2	3.805E-03	3.459E-03	0.6
10	P2	36.2	1.7 (34.9,36.6)	4.7	3.798E-03	2.234E-03	0.4
11	P2	37.4	1.6 (36.2,37.8)	4.3	3.823E-03	2.389E-03	0.6
12	P2	38.3	1.7 (37.0,38.7)	4.4	3.701E-03	2.177E-03	0.4
13	P3	52.0	1.7 (50.9,52.6)	3.3	3.394E-03	1.996E-03	0.3
14	P3	53.2	1.8 (52.0,53.8)	3.4	3.483E-03	1.935E-03	0.3
15	P3	54.5	1.3 (53.2,54.5)	2.4	3.491E-03	2.685E-03	0.5
16	P3	55.1	1.9 (53.8,55.7)	3.4	3.410E-03	1.795E-03	0.7
17	P3	56.4	1.9 (55.1,57.0)	3.4	3.401E-03	1.790E-03	0.4
18	P3	57.6	1.9 (56.4,58.3)	3.3	3.422E-03	1.801E-03	0.2
19	P3	59.0	1.4 (57.6,59.0)	2.4	3.433E-03	2.452E-03	0.6
20	P3	59.7	2.0 (58.3,60.3)	3.4	3.359E-03	1.680E-03	0.5
21	P3	61.0	1.3 (59.7,61.0)	2.1	3.347E-03	2.575E-03	0.2
22	P3	61.7	2.1 (60.3,62.4)	3.4	3.305E-03	1.574E-03	0.7
23	P3	63.1	2.2 (61.7,63.9)	3.5	3.359E-03	1.527E-03	0.3
24	P4	74.0	2.5 (72.4,74.9)	3.4	5.791E-03	2.316E-03	0.3
25	P4	76.6	3.5 (74.0,77.5)	4.6	6.050E-03	1.729E-03	0.4
26	P4	78.4	2.7 (76.6,79.3)	3.4	5.993E-03	2.220E-03	0.5
27	P4	81.1	3.6 (78.4,82.0)	4.4	6.031E-03	1.675E-03	0.4
28	P4	83.0	2.8 (81.1,83.9)	3.4	5.883E-03	2.101E-03	0.4
29	P4	85.8	3.8 (83.0,86.8)	4.4	5.958E-03	1.568E-03	0.6
30	P4	87.8	3.0 (85.8,88.8)	3.4	5.854E-03	1.951E-03	0.3
31	P4	89.8	3.1 (87.8,90.9)	3.5	5.771E-03	1.862E-03	0.2
32	P5	102.0	3.5 (99.5,103.0)	3.4	5.227E-03	1.493E-03	0.2
33	P5	104.0	3.0 (102.0,105.0)	2.9	5.467E-03	1.822E-03	0.2
34	P5	107.0	4.0 (104.0,108.0)	3.7	5.465E-03	1.366E-03	0.5
35	P5	109.0	2.0 (107.0,109.0)	1.8	5.476E-03	2.738E-03	0.7
36	P5	110.0	4.0 (108.0,112.0)	3.6	5.413E-03	1.353E-03	0.5
37	P5	113.0	4.0 (110.0,114.0)	3.5	5.330E-03	1.332E-03	0.2
38	P5	115.0	4.0 (113.0,117.0)	3.5	5.287E-03	1.322E-03	0.4
39	P6	137.0	4.0 (134.0,138.0)	2.9	4.759E-03	1.190E-03	0.2
40	P6	140.0	3.0 (137.0,140.0)	2.1	4.920E-03	1.640E-03	0.9
41	P6	142.0	5.0 (138.0,143.0)	3.5	4.786E-03	9.572E-04	0.2
42	P6	143.0	3.0 (142.0,145.0)	2.1	4.772E-03	1.591E-03	0.5
43	P6	146.5	3.3 (143.2,146.5)	2.3	4.773E-03	1.446E-03	0.6
44	P6	148.0	5.0 (145.0,150.0)	3.4	4.693E-03	9.386E-04	0.2
45	P7	175.8	4.0 (171.8,175.8)	2.3	4.090E-03	1.022E-03	1.1
46	P7	178.0	4.0 (174.0,178.0)	2.2	4.103E-03	1.026E-03	0.9
47	P7	180.0	6.0 (176.0,182.0)	3.3	4.132E-03	6.887E-04	0.7
48	P7	182.0	6.0 (178.0,184.0)	3.3	4.076E-03	6.793E-04	0.6
49	P7	184.0	6.0 (180.0,186.0)	3.3	4.055E-03	6.758E-04	0.4
50	P7	186.0	6.0 (182.0,188.0)	3.2	3.991E-03	6.652E-04	0.4
51	P7	188.0	6.0 (184.0,190.0)	3.2	3.976E-03	6.627E-04	0.2
52	P7	190.0	7.0 (186.0,193.0)	3.7	3.959E-03	5.656E-04	0.2
53	P7	193.0	7.0 (188.0,195.0)	3.6	3.880E-03	5.543E-04	0.2
54	P7	195.0	7.0 (190.0,197.0)	3.6	3.998E-03	5.711E-04	0.3
55	P8	214.9	6.8 (211.2,218.0)	3.2	3.485E-03	5.125E-04	0.9
56	P8	217.1	4.7 (213.5,218.2)	2.2	3.550E-03	7.553E-04	1.2
57	P8	219.4	5.2 (215.8,221.0)	2.4	3.480E-03	6.692E-04	1.5
58	P8	221.6	5.0 (218.0,223.0)	2.3	3.590E-03	7.180E-04	1.2
59	P8	223.9	5.7 (220.3,226.0)	2.5	3.587E-03	6.293E-04	1.0
60	P8	226.1	5.4 (222.6,228.0)	2.4	3.623E-03	6.709E-04	0.9
61	P8	228.4	6.2 (224.8,231.0)	2.7	3.619E-03	5.837E-04	0.4

62	P8	230.6	6.9 (227.1,234.0)	3.0	3.617E-03	5.242E-04	0.3
63	P8	232.9	6.7 (229.3,236.0)	2.9	3.634E-03	5.424E-04	0.8
64	P8	235.1	4.7 (231.6,236.3)	2.0	3.580E-03	7.617E-04	1.3
65	P8	237.4	5.1 (233.9,239.0)	2.1	3.370E-03	6.608E-04	1.4
66	P8	239.6	5.9 (236.1,242.0)	2.5	3.461E-03	5.866E-04	0.9
67	P8	241.9	5.6 (238.4,244.0)	2.3	3.452E-03	6.164E-04	0.6
68	P8	244.1	6.3 (240.7,247.0)	2.6	3.481E-03	5.525E-04	0.3
69	P8	246.4	7.1 (242.9,250.0)	2.9	3.490E-03	4.915E-04	1.1

Table 2: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (LOW-A): 16642.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	19.6	2.4 (18.1,20.5)	12.2	8.578E-03	3.574E-03	0.8
1	P1	21.7	2.5 (20.2,22.7)	11.5	8.717E-03	3.487E-03	0.9
2	P1	24.0	2.7 (22.4,25.1)	11.3	8.715E-03	3.228E-03	0.5
3	P1	26.3	2.6 (24.6,27.2)	9.9	8.134E-03	3.128E-03	0.7
4	P2	31.2	2.5 (29.8,32.3)	8.0	7.595E-03	3.038E-03	0.5
5	P2	33.4	2.7 (31.9,34.6)	8.1	7.689E-03	2.848E-03	0.4
6	P2	35.8	2.4 (34.2,36.6)	6.7	7.671E-03	3.196E-03	0.7
7	P2	37.8	2.5 (36.2,38.7)	6.6	7.535E-03	3.014E-03	0.4
8	P3	51.5	2.9 (49.7,52.6)	5.6	6.668E-03	2.299E-03	0.3
9	P3	53.8	2.5 (52.0,54.5)	4.6	6.974E-03	2.790E-03	0.4
10	P3	55.7	3.2 (53.8,57.0)	5.7	6.812E-03	2.129E-03	0.5
11	P3	58.3	2.6 (56.4,59.0)	4.5	6.856E-03	2.637E-03	0.4
12	P3	60.3	3.4 (58.3,61.7)	5.6	6.711E-03	1.974E-03	0.3
13	P3	62.4	3.6 (60.3,63.9)	5.8	6.664E-03	1.851E-03	0.5
14	P4	74.0	2.5 (72.4,74.9)	3.4	5.791E-03	2.316E-03	0.3
15	P4	76.6	3.5 (74.0,77.5)	4.6	6.050E-03	1.729E-03	0.4
16	P4	78.4	2.7 (76.6,79.3)	3.4	5.993E-03	2.220E-03	0.5
17	P4	81.1	3.6 (78.4,82.0)	4.4	6.031E-03	1.675E-03	0.4
18	P4	83.0	2.8 (81.1,83.9)	3.4	5.883E-03	2.101E-03	0.4
19	P4	85.8	3.8 (83.0,86.8)	4.4	5.958E-03	1.568E-03	0.6
20	P4	87.8	3.0 (85.8,88.8)	3.4	5.854E-03	1.951E-03	0.3
21	P4	89.8	3.1 (87.8,90.9)	3.5	5.771E-03	1.862E-03	0.2
22	P5	103.0	3.0 (101.0,104.0)	2.9	5.352E-03	1.784E-03	0.2
23	P5	105.0	4.0 (103.0,107.0)	3.8	5.458E-03	1.365E-03	0.3
24	P5	108.0	4.0 (105.0,109.0)	3.7	5.501E-03	1.375E-03	0.6
25	P5	109.0	3.0 (107.0,110.0)	2.8	5.378E-03	1.793E-03	0.7
26	P5	112.0	4.0 (109.0,113.0)	3.6	5.383E-03	1.346E-03	0.3
27	P5	114.0	3.0 (112.0,115.0)	2.6	5.295E-03	1.765E-03	0.2
28	P5	116.7	2.6 (114.1,116.7)	2.2	5.282E-03	2.032E-03	0.7
29	P6	137.0	4.0 (134.0,138.0)	2.9	4.759E-03	1.190E-03	0.2
30	P6	140.0	3.0 (137.0,140.0)	2.1	4.920E-03	1.640E-03	0.9
31	P6	142.0	5.0 (138.0,143.0)	3.5	4.786E-03	9.572E-04	0.2
32	P6	143.0	3.0 (142.0,145.0)	2.1	4.772E-03	1.591E-03	0.5
33	P6	146.5	3.3 (143.2,146.5)	2.3	4.773E-03	1.446E-03	0.6
34	P6	148.0	5.0 (145.0,150.0)	3.4	4.693E-03	9.386E-04	0.2
35	P6	150.0	4.0 (148.0,152.0)	2.7	4.554E-03	1.138E-03	0.5
36	P6	153.0	3.0 (150.0,153.0)	2.0	4.646E-03	1.549E-03	0.7
37	P6	155.0	5.0 (152.0,157.0)	3.2	4.575E-03	9.150E-04	0.3
38	P7	175.8	4.0 (171.8,175.8)	2.3	4.090E-03	1.022E-03	1.1
39	P7	178.0	4.0 (174.0,178.0)	2.2	4.103E-03	1.026E-03	0.9
40	P7	180.0	6.0 (176.0,182.0)	3.3	4.132E-03	6.887E-04	0.7
41	P7	182.0	6.0 (178.0,184.0)	3.3	4.076E-03	6.793E-04	0.6
42	P7	184.0	6.0 (180.0,186.0)	3.3	4.055E-03	6.758E-04	0.4
43	P7	186.0	6.0 (182.0,188.0)	3.2	3.991E-03	6.652E-04	0.4
44	P7	188.0	6.0 (184.0,190.0)	3.2	3.976E-03	6.627E-04	0.2
45	P7	190.0	7.0 (186.0,193.0)	3.7	3.959E-03	5.656E-04	0.2
46	P7	193.0	7.0 (188.0,195.0)	3.6	3.880E-03	5.543E-04	0.2
47	P7	195.0	7.0 (190.0,197.0)	3.6	3.998E-03	5.711E-04	0.3
48	P8	216.0	5.2 (213.0,218.2)	2.4	3.502E-03	6.735E-04	0.7
49	P8	218.3	5.4 (215.1,220.5)	2.5	3.479E-03	6.443E-04	0.4
50	P8	220.5	5.5 (217.3,222.8)	2.5	3.599E-03	6.544E-04	0.2
51	P8	222.8	5.7 (219.4,225.1)	2.6	3.662E-03	6.425E-04	0.4

52	P8	225.1	5.8 (221.6,227.4)	2.6	3.665E-03	6.319E-04	0.7
53	P8	227.4	5.9 (223.8,229.7)	2.6	3.650E-03	6.186E-04	1.2
54	P8	229.6	6.1 (225.9,232.0)	2.7	3.570E-03	5.852E-04	1.4
55	P8	231.9	6.2 (228.1,234.3)	2.7	3.579E-03	5.773E-04	1.0
56	P8	234.2	6.4 (230.2,236.6)	2.7	3.568E-03	5.575E-04	0.9
57	P8	236.5	6.5 (232.4,238.9)	2.7	3.472E-03	5.342E-04	0.4
58	P8	238.7	6.7 (234.5,241.2)	2.8	3.422E-03	5.107E-04	0.4
59	P8	241.0	6.8 (236.7,243.5)	2.8	3.540E-03	5.206E-04	1.1

Probe A (M35)

Table 3: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M35-A): 20737.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	131	5 (126,131)	3.8	1.880E-02	3.760E-03	1.5
1	P1	136	6 (130,136)	4.4	1.940E-02	3.233E-03	1.4
2	P1	141	6 (134,141)	4.5	1.960E-02	3.111E-03	1.3
3	P1	146	7 (139,146)	4.8	1.960E-02	2.800E-03	1.2
4	P1	151	7 (144,151)	4.4	1.960E-02	2.925E-03	1.2
5	P1	156	7 (149,156)	4.5	1.950E-02	2.786E-03	1.2
6	P1	160	6 (154,160)	3.8	1.940E-02	3.233E-03	1.2
7	P1	165	7 (158,165)	4.2	1.920E-02	2.743E-03	1.1
8	P1	169	6 (163,169)	3.6	1.890E-02	3.150E-03	1.2
9	P1	175	8 (167,175)	4.6	1.820E-02	2.275E-03	1.1
10	P2	210	8 (202,210)	3.7	1.641E-02	2.131E-03	0.9
11	P2	214	7 (207,214)	3.3	1.735E-02	2.444E-03	0.9
12	P2	219	7 (212,219)	3.4	1.793E-02	2.423E-03	0.9
13	P2	224	8 (216,224)	3.5	1.798E-02	2.305E-03	1.0
14	P2	227	6 (221,227)	2.7	1.790E-02	2.934E-03	1.0
15	P2	232	7 (226,232)	2.9	1.794E-02	2.678E-03	0.9
16	P2	238	8 (230,238)	3.3	1.774E-02	2.274E-03	0.8
17	P2	243	8 (235,243)	3.4	1.792E-02	2.185E-03	0.8
18	P2	249	10 (240,249)	3.8	1.768E-02	1.861E-03	1.0
19	P2	251	7 (244,251)	2.7	1.756E-02	2.545E-03	0.8
20	P2	257	8 (249,257)	3.2	1.751E-02	2.135E-03	0.7
21	P2	260	7 (253,260)	2.5	1.705E-02	2.583E-03	1.0
22	P2	266	8 (258,266)	3.0	1.646E-02	2.084E-03	0.7
23	P3	309	9 (300,309)	3.0	1.393E-02	1.514E-03	0.8
24	P3	312	8 (304,312)	2.5	1.451E-02	1.837E-03	0.6
25	P3	316	8 (308,316)	2.4	1.496E-02	1.995E-03	0.6
26	P3	319	6 (313,319)	1.9	1.508E-02	2.432E-03	0.7
27	P3	327	10 (317,327)	3.0	1.527E-02	1.542E-03	0.7
28	P3	330	9 (321,330)	2.7	1.535E-02	1.706E-03	0.5
29	P3	334	8 (326,334)	2.5	1.511E-02	1.820E-03	0.5
30	P3	338	8 (330,338)	2.4	1.513E-02	1.891E-03	0.6
31	P3	342	8 (334,342)	2.2	1.510E-02	1.987E-03	0.8
32	P3	350	11 (339,350)	3.2	1.500E-02	1.327E-03	0.7
33	P3	354	11 (343,354)	3.1	1.495E-02	1.359E-03	0.6
34	P3	358	11 (347,358)	3.0	1.484E-02	1.387E-03	0.5
35	P3	362	10 (352,362)	2.9	1.485E-02	1.428E-03	0.5
36	P3	366	10 (356,366)	2.7	1.473E-02	1.473E-03	0.5
37	P3	370	10 (360,370)	2.6	1.469E-02	1.514E-03	0.5
38	P4	429	14 (415,429)	3.3	2.527E-02	1.805E-03	0.8
39	P4	434	10 (424,434)	2.3	2.558E-02	2.558E-03	0.6
40	P4	444	15 (429,444)	3.4	2.600E-02	1.733E-03	0.4
41	P4	454	15 (439,454)	3.3	2.580E-02	1.720E-03	0.5
42	P4	465	16 (449,465)	3.4	2.553E-02	1.596E-03	0.8
43	P4	470	10 (460,470)	2.1	2.511E-02	2.511E-03	0.5
44	P4	481	16 (465,481)	3.3	2.526E-02	1.579E-03	0.5
45	P4	486	17 (475,492)	3.5	2.438E-02	1.434E-03	0.8
46	P5	551	18 (533,551)	3.3	2.084E-02	1.158E-03	0.8
47	P5	558	13 (545,558)	2.3	2.211E-02	1.701E-03	0.5
48	P5	564	13 (551,564)	2.3	2.180E-02	1.677E-03	0.5
49	P5	577	19 (558,577)	3.3	2.240E-02	1.179E-03	0.9
50	P5	584	14 (570,584)	2.4	2.220E-02	1.586E-03	0.5
51	P5	590	13 (577,590)	2.2	2.173E-02	1.672E-03	0.5
52	P5	597	20 (584,604)	3.4	2.119E-02	1.060E-03	0.8
53	P5	611	14 (597,611)	2.3	2.141E-02	1.529E-03	0.6
54	P5	618	14 (604,618)	2.3	2.101E-02	1.501E-03	0.3
55	P5	625	14 (611,625)	2.2	2.041E-02	1.458E-03	0.5
56	P6	684	15 (669,684)	2.2	1.855E-02	1.237E-03	0.3
57	P6	692	15 (677,692)	2.2	1.964E-02	1.309E-03	0.4
58	P6	700	24 (684,708)	3.4	1.960E-02	8.167E-04	0.6
59	P6	708	24 (692,716)	3.4	1.999E-02	8.329E-04	0.8
60	P6	724	16 (708,724)	2.2	2.038E-02	1.274E-03	0.9
61	P6	733	17 (716,733)	2.3	1.987E-02	1.169E-03	0.7

62	P6	741	17 (724,741)	2.3	1.985E-02	1.168E-03	0.4
63	P6	749	16 (733,749)	2.1	1.931E-02	1.207E-03	0.2
64	P6	758	17 (741,758)	2.2	1.911E-02	1.124E-03	0.2
65	P6	767	26 (749,775)	3.4	1.884E-02	7.246E-04	0.2
66	P7	837	22 (820,842)	2.6	1.504E-02	6.931E-04	0.7
67	P7	846	22 (829,851)	2.6	1.612E-02	7.361E-04	0.8
68	P7	855	22 (837,859)	2.6	1.650E-02	7.500E-04	1.0
69	P7	864	22 (846,868)	2.6	1.630E-02	7.342E-04	1.1
70	P7	873	22 (854,877)	2.6	1.625E-02	7.222E-04	0.8
71	P7	882	23 (863,886)	2.6	1.646E-02	7.283E-04	0.8
72	P7	891	23 (872,894)	2.6	1.628E-02	7.140E-04	0.4
73	P7	900	23 (880,903)	2.6	1.592E-02	6.892E-04	0.4
74	P7	909	23 (889,912)	2.6	1.589E-02	6.849E-04	0.6
75	P7	918	23 (897,921)	2.5	1.558E-02	6.658E-04	0.8
76	P7	927	24 (906,930)	2.5	1.512E-02	6.407E-04	0.9
77	P8	1002	25 (983,1008)	2.5	1.325E-02	5.364E-04	0.8
78	P8	1012	25 (992,1017)	2.5	1.400E-02	5.600E-04	1.1
79	P8	1021	25 (1001,1027)	2.5	1.392E-02	5.480E-04	0.6
80	P8	1031	26 (1010,1036)	2.5	1.444E-02	5.619E-04	0.4
81	P8	1040	26 (1019,1045)	2.5	1.451E-02	5.581E-04	0.9
82	P8	1050	26 (1028,1054)	2.5	1.440E-02	5.496E-04	1.1
83	P8	1059	26 (1037,1064)	2.5	1.376E-02	5.192E-04	0.9
84	P8	1069	27 (1046,1073)	2.5	1.380E-02	5.149E-04	0.4
85	P8	1078	27 (1055,1082)	2.5	1.389E-02	5.107E-04	0.9
86	P8	1088	28 (1064,1092)	2.5	1.370E-02	4.982E-04	1.2

Table 4: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M35-A): 20738.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	135	10 (126,136)	7.4	3.860E-02	3.860E-03	1.3
1	P1	144	11 (135,146)	7.6	3.940E-02	3.582E-03	1.3
2	P1	152	12 (144,156)	7.9	3.880E-02	3.233E-03	1.3
3	P1	163	11 (154,165)	6.7	3.880E-02	3.527E-03	1.3
4	P1	173	12 (163,175)	6.9	3.730E-02	3.108E-03	1.3
5	P2	212	12 (200,212)	5.5	3.374E-02	2.884E-03	0.9
6	P2	222	12 (210,222)	5.5	3.591E-02	2.920E-03	1.0
7	P2	230	13 (219,232)	5.7	3.581E-02	2.755E-03	0.9
8	P2	240	13 (230,243)	5.4	3.564E-02	2.742E-03	0.8
9	P2	249	11 (240,251)	4.4	3.501E-02	3.183E-03	0.9
10	P2	260	11 (249,260)	4.2	3.483E-02	3.166E-03	0.8
11	P3	309	10 (298,309)	3.3	2.822E-02	2.740E-03	0.7
12	P3	319	14 (305,319)	4.4	3.027E-02	2.162E-03	0.7
13	P3	327	11 (316,327)	3.4	3.038E-02	2.762E-03	0.6
14	P3	338	15 (323,338)	4.4	3.044E-02	2.029E-03	0.7
15	P3	346	12 (334,346)	3.5	3.017E-02	2.514E-03	0.5
16	P3	354	16 (342,358)	4.5	2.951E-02	1.844E-03	0.7
17	P3	362	16 (350,366)	4.4	2.930E-02	1.831E-03	0.8
18	P3	374	12 (362,374)	3.2	2.870E-02	2.392E-03	0.7
19	P4	429	14 (415,429)	3.3	2.527E-02	1.805E-03	0.8
20	P4	434	10 (424,434)	2.3	2.558E-02	2.558E-03	0.6
21	P4	444	15 (429,444)	3.4	2.600E-02	1.733E-03	0.4
22	P4	454	15 (439,454)	3.3	2.580E-02	1.720E-03	0.5
23	P4	465	16 (449,465)	3.4	2.553E-02	1.596E-03	0.8
24	P4	470	10 (460,470)	2.1	2.511E-02	2.511E-03	0.5
25	P4	481	16 (465,481)	3.3	2.526E-02	1.579E-03	0.5
26	P4	486	17 (475,492)	3.5	2.438E-02	1.434E-03	0.8
27	P5	551	18 (533,551)	3.3	2.084E-02	1.158E-03	0.8
28	P5	558	13 (545,558)	2.3	2.211E-02	1.701E-03	0.5
29	P5	564	13 (551,564)	2.3	2.180E-02	1.677E-03	0.5
30	P5	577	19 (558,577)	3.3	2.240E-02	1.179E-03	0.9
31	P5	584	14 (570,584)	2.4	2.220E-02	1.586E-03	0.5
32	P5	590	13 (577,590)	2.2	2.173E-02	1.672E-03	0.5
33	P5	597	20 (584,604)	3.4	2.119E-02	1.060E-03	0.8
34	P5	611	14 (597,611)	2.3	2.141E-02	1.529E-03	0.6

35	P5	618	14 (604,618)	2.3	2.101E-02	1.501E-03	0.3
36	P5	625	14 (611,625)	2.2	2.041E-02	1.458E-03	0.5
37	P6	684	15 (669,684)	2.2	1.855E-02	1.237E-03	0.3
38	P6	692	15 (677,692)	2.2	1.964E-02	1.309E-03	0.4
39	P6	700	24 (684,708)	3.4	1.960E-02	8.167E-04	0.6
40	P6	708	24 (692,716)	3.4	1.999E-02	8.329E-04	0.8
41	P6	724	16 (708,724)	2.2	2.038E-02	1.274E-03	0.9
42	P6	733	17 (716,733)	2.3	1.987E-02	1.169E-03	0.7
43	P6	741	17 (724,741)	2.3	1.985E-02	1.168E-03	0.4
44	P6	749	16 (733,749)	2.1	1.931E-02	1.207E-03	0.2
45	P6	758	17 (741,758)	2.2	1.911E-02	1.124E-03	0.2
46	P6	767	26 (749,775)	3.4	1.884E-02	7.246E-04	0.2
47	P7	837	22 (820,842)	2.6	1.504E-02	6.931E-04	0.7
48	P7	846	22 (829,851)	2.6	1.612E-02	7.361E-04	0.8
49	P7	855	22 (837,859)	2.6	1.650E-02	7.500E-04	1.0
50	P7	864	22 (846,868)	2.6	1.630E-02	7.342E-04	1.1
51	P7	873	22 (854,877)	2.6	1.625E-02	7.222E-04	0.8
52	P7	882	23 (863,886)	2.6	1.646E-02	7.283E-04	0.8
53	P7	891	23 (872,894)	2.6	1.628E-02	7.140E-04	0.4
54	P7	900	23 (880,903)	2.6	1.592E-02	6.892E-04	0.4
55	P7	909	23 (889,912)	2.6	1.589E-02	6.849E-04	0.6
56	P7	918	23 (897,921)	2.5	1.558E-02	6.658E-04	0.8
57	P7	927	24 (906,930)	2.5	1.512E-02	6.407E-04	0.9
58	P8	1002	25 (983,1008)	2.5	1.325E-02	5.364E-04	0.8
59	P8	1012	25 (992,1017)	2.5	1.400E-02	5.600E-04	1.1
60	P8	1021	25 (1001,1027)	2.5	1.392E-02	5.480E-04	0.6
61	P8	1031	26 (1010,1036)	2.5	1.444E-02	5.619E-04	0.4
62	P8	1040	26 (1019,1045)	2.5	1.451E-02	5.581E-04	0.9
63	P8	1050	26 (1028,1054)	2.5	1.440E-02	5.496E-04	1.1
64	P8	1059	26 (1037,1064)	2.5	1.376E-02	5.192E-04	0.9
65	P8	1069	27 (1046,1073)	2.5	1.380E-02	5.149E-04	0.4
66	P8	1078	27 (1055,1082)	2.5	1.389E-02	5.107E-04	0.9
67	P8	1088	28 (1064,1092)	2.5	1.370E-02	4.982E-04	1.2

Probe A (M75)

Table 5: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M75-A): 24833.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	131	6 (125,131)	4.6	1.730E-02	2.883E-03	1.6
1	P1	136	6 (130,136)	4.4	1.860E-02	3.100E-03	1.6
2	P1	139	6 (133,139)	4.3	1.870E-02	3.117E-03	1.5
3	P1	144	6 (138,144)	4.2	1.890E-02	3.150E-03	1.3
4	P1	149	7 (142,149)	4.7	1.880E-02	2.686E-03	1.3
5	P1	154	6 (148,154)	3.9	1.890E-02	3.150E-03	1.4
6	P1	158	7 (151,158)	4.4	1.860E-02	2.657E-03	1.3
7	P1	163	5 (158,163)	3.1	1.870E-02	3.740E-03	1.3
8	P1	167	7 (160,167)	4.2	1.850E-02	2.643E-03	1.1
9	P1	171	6 (165,171)	3.3	1.810E-02	3.175E-03	1.3
10	P1	177	6 (171,177)	3.4	1.780E-02	2.967E-03	1.2
11	P2	214	8 (206,214)	3.5	1.630E-02	2.173E-03	1.0
12	P2	219	8 (211,219)	3.7	1.690E-02	2.112E-03	1.1
13	P2	222	6 (216,222)	2.8	1.738E-02	2.759E-03	1.0
14	P2	227	7 (220,227)	3.0	1.747E-02	2.569E-03	0.9
15	P2	232	7 (225,232)	3.1	1.752E-02	2.400E-03	0.9
16	P2	238	9 (229,238)	3.7	1.736E-02	1.995E-03	0.9
17	P2	240	6 (234,240)	2.6	1.720E-02	2.774E-03	1.1
18	P2	246	7 (238,246)	3.0	1.726E-02	2.332E-03	0.8
19	P2	251	8 (243,251)	3.2	1.731E-02	2.164E-03	0.8
20	P2	254	6 (248,254)	2.6	1.697E-02	2.611E-03	0.9
21	P2	260	8 (252,260)	3.0	1.685E-02	2.133E-03	0.7
22	P2	266	9 (257,266)	3.5	1.700E-02	1.828E-03	1.0
23	P2	269	8 (261,269)	2.9	1.649E-02	2.114E-03	0.7
24	P3	319	8 (311,319)	2.4	1.413E-02	1.835E-03	0.9
25	P3	323	8 (315,323)	2.4	1.448E-02	1.881E-03	0.8
26	P3	327	8 (319,327)	2.4	1.452E-02	1.886E-03	0.6
27	P3	330	7 (323,330)	2.2	1.488E-02	2.067E-03	0.5
28	P3	334	7 (327,334)	2.0	1.469E-02	2.160E-03	0.6
29	P3	338	7 (331,338)	2.0	1.458E-02	2.144E-03	0.8
30	P3	346	11 (335,346)	3.2	1.479E-02	1.357E-03	0.9
31	P3	350	11 (339,350)	3.1	1.465E-02	1.344E-03	0.7
32	P3	354	11 (343,354)	3.1	1.453E-02	1.333E-03	0.6
33	P3	358	11 (347,358)	3.1	1.440E-02	1.309E-03	0.5
34	P3	362	11 (351,362)	3.0	1.431E-02	1.301E-03	0.5
35	P3	366	11 (355,366)	3.0	1.397E-02	1.270E-03	0.5
36	P3	370	11 (359,370)	3.0	1.424E-02	1.295E-03	0.5
37	P3	374	11 (363,374)	3.0	1.425E-02	1.284E-03	0.5
38	P3	379	12 (367,379)	3.2	1.383E-02	1.143E-03	0.5
39	P4	439	15 (424,439)	3.4	2.487E-02	1.658E-03	0.5
40	P4	449	15 (434,449)	3.3	2.575E-02	1.717E-03	0.7
41	P4	454	10 (444,454)	2.2	2.577E-02	2.577E-03	0.6
42	P4	465	16 (449,465)	3.4	2.556E-02	1.597E-03	0.4
43	P4	475	15 (460,475)	3.2	2.560E-02	1.707E-03	0.6
44	P4	481	11 (470,481)	2.3	2.509E-02	2.281E-03	0.6
45	P4	492	17 (475,492)	3.5	2.482E-02	1.460E-03	0.5
46	P4	498	17 (486,503)	3.4	2.403E-02	1.414E-03	0.9
47	P4	509	11 (498,509)	2.2	2.382E-02	2.165E-03	0.4
48	P5	564	13 (551,564)	2.3	2.166E-02	1.666E-03	0.8
49	P5	577	19 (558,577)	3.3	2.294E-02	1.207E-03	0.6
50	P5	584	14 (570,584)	2.4	2.275E-02	1.625E-03	0.4
51	P5	590	20 (577,597)	3.4	2.273E-02	1.136E-03	0.9
52	P5	604	14 (590,604)	2.3	2.255E-02	1.611E-03	0.6
53	P5	611	14 (597,611)	2.3	2.231E-02	1.594E-03	0.5
54	P5	618	21 (604,625)	3.4	2.191E-02	1.043E-03	0.7
55	P5	632	21 (611,632)	3.3	2.202E-02	1.049E-03	0.8
56	P5	639	14 (625,639)	2.2	2.124E-02	1.517E-03	0.4
57	P6	708	16 (692,708)	2.3	1.895E-02	1.184E-03	0.4
58	P6	716	24 (700,724)	3.4	1.949E-02	8.121E-04	0.6
59	P6	724	25 (708,733)	3.5	1.973E-02	7.892E-04	0.8
60	P6	733	25 (716,741)	3.4	1.981E-02	7.924E-04	0.9
61	P6	749	16 (733,749)	2.1	1.997E-02	1.248E-03	0.9

62	P6	758	17 (741,758)	2.2	1.976E-02	1.162E-03	0.7
63	P6	767	18 (749,767)	2.3	1.937E-02	1.076E-03	0.5
64	P6	775	17 (758,775)	2.2	1.923E-02	1.131E-03	0.3
65	P6	784	17 (767,784)	2.2	1.891E-02	1.112E-03	0.3
66	P6	793	18 (775,793)	2.3	1.801E-02	1.001E-03	0.3
67	P7	861	22 (842,864)	2.6	1.457E-02	6.623E-04	0.8
68	P7	870	22 (851,873)	2.6	1.541E-02	6.941E-04	0.6
69	P7	879	23 (859,882)	2.6	1.591E-02	7.040E-04	0.4
70	P7	888	23 (868,891)	2.6	1.563E-02	6.855E-04	0.5
71	P7	897	23 (877,900)	2.6	1.583E-02	6.883E-04	0.6
72	P7	906	23 (886,909)	2.6	1.581E-02	6.785E-04	0.9
73	P7	915	24 (894,918)	2.6	1.560E-02	6.638E-04	1.1
74	P7	924	24 (903,927)	2.6	1.548E-02	6.532E-04	0.8
75	P7	933	24 (912,936)	2.6	1.518E-02	6.299E-04	0.5
76	P7	942	24 (921,945)	2.6	1.480E-02	6.091E-04	0.5
77	P7	951	24 (930,954)	2.6	1.494E-02	6.098E-04	0.8
78	P8	1021	23 (998,1022)	2.3	1.284E-02	5.583E-04	0.5
79	P8	1030	24 (1007,1031)	2.3	1.349E-02	5.740E-04	0.8
80	P8	1038	24 (1016,1040)	2.3	1.347E-02	5.660E-04	0.9
81	P8	1047	24 (1025,1049)	2.3	1.316E-02	5.416E-04	1.0
82	P8	1056	25 (1034,1059)	2.3	1.344E-02	5.441E-04	0.4
83	P8	1064	25 (1043,1068)	2.4	1.332E-02	5.307E-04	0.9
84	P8	1073	26 (1052,1077)	2.4	1.350E-02	5.294E-04	1.2
85	P8	1082	26 (1060,1086)	2.4	1.310E-02	5.058E-04	0.7
86	P8	1090	26 (1069,1096)	2.4	1.304E-02	4.958E-04	0.6
87	P8	1099	27 (1078,1105)	2.4	1.310E-02	4.888E-04	1.3
88	P8	1108	27 (1087,1114)	2.4	1.220E-02	4.502E-04	1.1

Table 6: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M75-A): 24834.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	133	11 (124,135)	8.3	3.560E-02	3.236E-03	1.5
1	P1	142	11 (133,144)	7.7	3.780E-02	3.436E-03	1.4
2	P1	151	10 (142,152)	6.6	3.740E-02	3.740E-03	1.3
3	P1	160	10 (151,161)	6.2	3.710E-02	3.710E-03	1.3
4	P1	169	11 (160,171)	6.5	3.660E-02	3.327E-03	1.2
5	P1	179	12 (169,181)	6.7	3.410E-02	2.842E-03	1.2
6	P2	217	12 (205,217)	5.5	3.310E-02	2.758E-03	1.1
7	P2	224	13 (214,227)	5.8	3.488E-02	2.683E-03	0.9
8	P2	235	11 (224,235)	4.7	3.490E-02	3.173E-03	0.9
9	P2	243	14 (232,246)	5.8	3.449E-02	2.464E-03	0.9
10	P2	254	11 (243,254)	4.3	3.450E-02	3.136E-03	1.0
11	P2	263	12 (251,263)	4.6	3.380E-02	2.817E-03	0.8
12	P2	272	12 (260,272)	4.4	3.187E-02	2.656E-03	0.8
13	P3	319	10 (309,319)	3.1	2.842E-02	2.842E-03	0.6
14	P3	330	15 (316,330)	4.4	2.958E-02	2.012E-03	0.9
15	P3	338	11 (327,338)	3.3	2.952E-02	2.612E-03	0.6
16	P3	346	12 (334,346)	3.5	2.924E-02	2.437E-03	0.6
17	P3	354	12 (342,354)	3.3	2.867E-02	2.430E-03	0.7
18	P3	362	16 (350,366)	4.4	2.799E-02	1.749E-03	0.9
19	P3	374	12 (362,374)	3.2	2.866E-02	2.388E-03	0.8
20	P3	383	13 (370,383)	3.4	2.699E-02	2.076E-03	0.8
21	P4	439	15 (424,439)	3.4	2.487E-02	1.658E-03	0.5
22	P4	449	15 (434,449)	3.3	2.575E-02	1.717E-03	0.7
23	P4	454	10 (444,454)	2.2	2.577E-02	2.577E-03	0.6
24	P4	465	16 (449,465)	3.4	2.556E-02	1.597E-03	0.4
25	P4	475	15 (460,475)	3.2	2.560E-02	1.707E-03	0.6
26	P4	481	11 (470,481)	2.3	2.509E-02	2.281E-03	0.6
27	P4	492	17 (475,492)	3.5	2.482E-02	1.460E-03	0.5
28	P4	498	17 (486,503)	3.4	2.403E-02	1.414E-03	0.9
29	P4	509	11 (498,509)	2.2	2.382E-02	2.165E-03	0.4
30	P5	564	13 (551,564)	2.3	2.166E-02	1.666E-03	0.8
31	P5	577	19 (558,577)	3.3	2.294E-02	1.207E-03	0.6
32	P5	584	14 (570,584)	2.4	2.275E-02	1.625E-03	0.4

33	P5	590	20 (577,597)	3.4	2.273E-02	1.136E-03	0.9
34	P5	604	14 (590,604)	2.3	2.255E-02	1.611E-03	0.6
35	P5	611	14 (597,611)	2.3	2.231E-02	1.594E-03	0.5
36	P5	618	21 (604,625)	3.4	2.191E-02	1.043E-03	0.7
37	P5	632	21 (611,632)	3.3	2.202E-02	1.049E-03	0.8
38	P5	639	14 (625,639)	2.2	2.124E-02	1.517E-03	0.4
39	P6	708	16 (692,708)	2.3	1.895E-02	1.184E-03	0.4
40	P6	716	24 (700,724)	3.4	1.949E-02	8.121E-04	0.6
41	P6	724	25 (708,733)	3.5	1.973E-02	7.892E-04	0.8
42	P6	733	25 (716,741)	3.4	1.981E-02	7.924E-04	0.9
43	P6	749	16 (733,749)	2.1	1.997E-02	1.248E-03	0.9
44	P6	758	17 (741,758)	2.2	1.976E-02	1.162E-03	0.7
45	P6	767	18 (749,767)	2.3	1.937E-02	1.076E-03	0.5
46	P6	775	17 (758,775)	2.2	1.923E-02	1.131E-03	0.3
47	P6	784	17 (767,784)	2.2	1.891E-02	1.112E-03	0.3
48	P6	793	18 (775,793)	2.3	1.801E-02	1.001E-03	0.3
49	P7	861	22 (842,864)	2.6	1.457E-02	6.623E-04	0.8
50	P7	870	22 (851,873)	2.6	1.541E-02	6.941E-04	0.6
51	P7	879	23 (859,882)	2.6	1.591E-02	7.040E-04	0.4
52	P7	888	23 (868,891)	2.6	1.563E-02	6.855E-04	0.5
53	P7	897	23 (877,900)	2.6	1.583E-02	6.883E-04	0.6
54	P7	906	23 (886,909)	2.6	1.581E-02	6.785E-04	0.9
55	P7	915	24 (894,918)	2.6	1.560E-02	6.638E-04	1.1
56	P7	924	24 (903,927)	2.6	1.548E-02	6.532E-04	0.8
57	P7	933	24 (912,936)	2.6	1.518E-02	6.299E-04	0.5
58	P7	942	24 (921,945)	2.6	1.480E-02	6.091E-04	0.5
59	P7	951	24 (930,954)	2.6	1.494E-02	6.098E-04	0.8
60	P8	1021	23 (998,1022)	2.3	1.284E-02	5.583E-04	0.5
61	P8	1030	24 (1007,1031)	2.3	1.349E-02	5.740E-04	0.8
62	P8	1038	24 (1016,1040)	2.3	1.347E-02	5.660E-04	0.9
63	P8	1047	24 (1025,1049)	2.3	1.316E-02	5.416E-04	1.0
64	P8	1056	25 (1034,1059)	2.3	1.344E-02	5.441E-04	0.4
65	P8	1064	25 (1043,1068)	2.4	1.332E-02	5.307E-04	0.9
66	P8	1073	26 (1052,1077)	2.4	1.350E-02	5.294E-04	1.2
67	P8	1082	26 (1060,1086)	2.4	1.310E-02	5.058E-04	0.7
68	P8	1090	26 (1069,1096)	2.4	1.304E-02	4.958E-04	0.6
69	P8	1099	27 (1078,1105)	2.4	1.310E-02	4.888E-04	1.3
70	P8	1108	27 (1087,1114)	2.4	1.220E-02	4.502E-04	1.1

Probe A (HIGH)

Table 7: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (HIGH-A): 29442, for times between 2012/09/01 and 2013/08/03.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P0	970	152 (844,996)	15.7	1.020E-01	6.689E-04	4.3
1	P0	992	140 (884,1024)	14.1	1.050E-01	7.527E-04	3.9
2	P0	1016	146 (905,1050)	14.3	1.110E-01	7.629E-04	3.4
3	P0	1039	130 (948,1078)	12.5	1.200E-01	9.266E-04	3.7
4	P0	1088	134 (970,1104)	12.4	1.380E-01	1.026E-03	3.0
5	P0	1114	116 (1016,1132)	10.4	1.270E-01	1.100E-03	2.6
6	P0	1140	119 (1039,1158)	10.5	1.270E-01	1.064E-03	1.9
7	P0	1167	97 (1088,1185)	8.3	1.160E-01	1.191E-03	2.1
8	P0	1194	98 (1114,1212)	8.2	1.110E-01	1.128E-03	2.5
9	P0	1250	72 (1178,1250)	5.8	1.140E-01	1.575E-03	2.7
10	P0	1279	72 (1207,1279)	5.7	1.050E-01	1.450E-03	1.8
11	P1	1576	219 (1407,1626)	13.9	5.450E-02	2.491E-04	2.7
12	P1	1607	205 (1446,1650)	12.7	6.210E-02	3.035E-04	1.9
13	P1	1637	190 (1485,1675)	11.6	6.080E-02	3.192E-04	2.3
14	P1	1668	176 (1524,1700)	10.6	6.060E-02	3.437E-04	2.1
15	P1	1699	162 (1563,1725)	9.5	6.280E-02	3.872E-04	1.2
16	P1	1730	148 (1601,1750)	8.6	6.420E-02	4.335E-04	1.4
17	P1	1760	134 (1640,1774)	7.6	6.350E-02	4.739E-04	2.2
18	P1	1791	120 (1679,1799)	6.7	5.800E-02	4.841E-04	2.1
19	P1	1822	106 (1718,1824)	5.8	4.760E-02	4.503E-04	1.1
20	P2	2218	223 (2012,2235)	10.1	7.690E-02	3.450E-04	2.2
21	P2	2251	220 (2048,2268)	9.8	8.460E-02	3.851E-04	1.9
22	P2	2285	216 (2084,2301)	9.5	8.470E-02	3.914E-04	1.9
23	P2	2318	213 (2121,2334)	9.2	8.930E-02	4.189E-04	2.1
24	P2	2352	210 (2157,2367)	8.9	9.870E-02	4.702E-04	1.5
25	P2	2386	207 (2193,2400)	8.7	9.120E-02	4.414E-04	1.8
26	P2	2419	203 (2230,2433)	8.4	9.070E-02	4.459E-04	1.4
27	P2	2453	200 (2266,2466)	8.2	9.700E-02	4.848E-04	1.6
28	P2	2486	197 (2302,2499)	7.9	9.930E-02	5.046E-04	2.2
29	P2	2520	194 (2338,2532)	7.7	9.720E-02	5.021E-04	1.6
30	P2	2554	190 (2375,2565)	7.4	9.980E-02	5.247E-04	1.7
31	P2	2587	187 (2411,2598)	7.2	9.020E-02	4.824E-04	1.7
32	P2	2621	184 (2447,2631)	7.0	8.820E-02	4.801E-04	1.5
33	P2	2654	180 (2483,2664)	6.8	8.960E-02	4.967E-04	2.2
34	P2	2688	177 (2520,2697)	6.6	8.710E-02	4.915E-04	1.4
35	P2	2722	174 (2556,2730)	6.4	9.260E-02	5.325E-04	2.2
36	P2	2755	171 (2592,2763)	6.2	7.510E-02	4.402E-04	1.9
37	P2	2789	167 (2628,2796)	6.0	8.270E-02	4.940E-04	2.4
38	P2	2822	164 (2665,2829)	5.8	6.750E-02	4.113E-04	2.0
39	P2	2856	161 (2701,2862)	5.6	7.050E-02	4.382E-04	1.8
40	P3	3723	353 (3472,3825)	9.5	1.410E-01	3.999E-04	4.7
41	P3	3759	346 (3510,3855)	9.2	1.310E-01	3.791E-04	4.1
42	P3	3794	338 (3547,3886)	8.9	1.320E-01	3.900E-04	3.8
43	P3	3830	331 (3585,3916)	8.7	1.270E-01	3.833E-04	4.6
44	P3	3865	324 (3622,3946)	8.4	1.490E-01	4.596E-04	3.7
45	P3	3901	317 (3659,3976)	8.1	1.400E-01	4.415E-04	3.8
46	P3	3936	310 (3697,4007)	7.9	1.470E-01	4.742E-04	4.9
47	P3	3972	303 (3734,4037)	7.6	1.680E-01	5.546E-04	3.3
48	P3	4007	296 (3772,4067)	7.4	1.360E-01	4.599E-04	3.7
49	P3	4043	289 (3809,4098)	7.1	1.660E-01	5.750E-04	4.1
50	P3	4078	282 (3846,4128)	6.9	1.390E-01	4.938E-04	3.3
51	P3	4114	274 (3884,4158)	6.7	1.670E-01	6.086E-04	4.9
52	P3	4149	267 (3921,4188)	6.4	1.490E-01	5.574E-04	3.6
53	P3	4185	260 (3958,4218)	6.2	1.350E-01	5.188E-04	3.5
54	P3	4220	253 (3996,4249)	6.0	1.520E-01	6.006E-04	5.0
55	P3	4256	246 (4033,4279)	5.8	1.400E-01	5.693E-04	2.8
56	P3	4291	239 (4070,4309)	5.6	1.150E-01	4.816E-04	5.1
57	P3	4327	232 (4108,4340)	5.4	1.390E-01	5.997E-04	4.3
58	P3	4362	225 (4145,4370)	5.1	1.280E-01	5.699E-04	3.4
59	P3	4398	218 (4183,4400)	4.9	1.150E-01	5.287E-04	5.1
60	P3	4433	210 (4223,4433)	4.7	1.280E-01	6.087E-04	3.0

61	P3	4469	203 (4266,4469)	4.5	1.040E-01	5.118E-04	3.5
62	P3	4504	196 (4308,4504)	4.4	1.180E-01	6.017E-04	5.3

Table 8: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (HIGH-A): 29442, for times between 2013/08/03 and 2019/10/14.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P0	970	91 (884,975)	9.4	2.400E-01	2.646E-03	2.5
1	P0	992	82 (926,1008)	8.2	2.520E-01	3.088E-03	3.1
2	P0	1039	93 (948,1041)	8.9	3.030E-01	3.272E-03	2.8
3	P0	1064	82 (992,1074)	7.7	3.000E-01	3.676E-03	1.6
4	P0	1088	91 (1016,1107)	8.3	3.050E-01	3.366E-03	1.6
5	P0	1114	76 (1064,1140)	6.8	2.870E-01	3.796E-03	2.5
6	P0	1167	85 (1088,1173)	7.2	3.120E-01	3.688E-03	2.1
7	P0	1194	92 (1114,1206)	7.7	2.920E-01	3.188E-03	1.0
8	P0	1222	72 (1167,1239)	5.9	2.530E-01	3.534E-03	1.3
9	P0	1250	78 (1194,1272)	6.2	2.260E-01	2.916E-03	2.3
10	P1	1480	161 (1340,1501)	10.9	1.380E-01	8.582E-04	2.4
11	P1	1511	156 (1375,1530)	10.3	1.450E-01	9.325E-04	2.3
12	P1	1542	150 (1409,1559)	9.7	1.690E-01	1.126E-03	1.6
13	P1	1573	145 (1443,1588)	9.2	1.840E-01	1.271E-03	1.9
14	P1	1604	139 (1477,1616)	8.7	1.900E-01	1.363E-03	2.3
15	P1	1635	134 (1511,1645)	8.2	1.880E-01	1.403E-03	1.8
16	P1	1666	129 (1545,1674)	7.7	1.820E-01	1.414E-03	1.4
17	P1	1697	123 (1580,1703)	7.3	1.869E-01	1.516E-03	0.9
18	P1	1728	118 (1614,1732)	6.8	1.820E-01	1.545E-03	1.1
19	P1	1759	112 (1648,1760)	6.4	1.680E-01	1.493E-03	1.5
20	P1	1790	107 (1683,1790)	6.0	1.510E-01	1.409E-03	1.8
21	P2	2309	136 (2173,2309)	5.9	1.770E-01	1.301E-03	1.7
22	P2	2344	138 (2206,2344)	5.9	1.780E-01	1.295E-03	1.7
23	P2	2378	139 (2239,2378)	5.8	1.940E-01	1.395E-03	1.5
24	P2	2413	141 (2272,2413)	5.8	1.870E-01	1.329E-03	2.1
25	P2	2447	142 (2305,2447)	5.8	2.030E-01	1.427E-03	1.2
26	P2	2482	144 (2338,2482)	5.8	2.310E-01	1.606E-03	2.1
27	P2	2516	145 (2371,2516)	5.8	2.060E-01	1.418E-03	1.3
28	P2	2551	147 (2404,2551)	5.8	2.180E-01	1.484E-03	1.6
29	P2	2585	148 (2437,2585)	5.7	1.850E-01	1.246E-03	2.3
30	P2	2620	150 (2470,2620)	5.7	2.200E-01	1.466E-03	1.3
31	P2	2654	152 (2502,2654)	5.7	2.200E-01	1.451E-03	2.4
32	P2	2689	153 (2536,2689)	5.7	1.960E-01	1.280E-03	1.2
33	P2	2723	155 (2568,2723)	5.7	2.040E-01	1.319E-03	1.9
34	P2	2758	156 (2601,2758)	5.7	1.790E-01	1.145E-03	1.9
35	P2	2792	158 (2634,2792)	5.7	1.840E-01	1.165E-03	1.5
36	P2	2826	159 (2667,2826)	5.6	1.550E-01	9.730E-04	2.4
37	P2	2861	161 (2700,2861)	5.6	1.710E-01	1.063E-03	1.3
38	P3	3789	293 (3536,3829)	7.7	1.160E-01	3.963E-04	5.4
39	P3	3825	290 (3574,3865)	7.6	1.450E-01	4.995E-04	5.1
40	P3	3862	288 (3612,3900)	7.5	1.370E-01	4.757E-04	3.9
41	P3	3898	286 (3650,3936)	7.3	1.280E-01	4.480E-04	4.1
42	P3	3935	283 (3688,3972)	7.2	1.400E-01	4.940E-04	3.9
43	P3	3971	281 (3726,4007)	7.1	1.490E-01	5.301E-04	3.3
44	P3	4008	279 (3764,4043)	7.0	1.380E-01	4.950E-04	5.2
45	P3	4044	276 (3802,4078)	6.8	1.580E-01	5.716E-04	3.6
46	P3	4081	274 (3840,4114)	6.7	1.420E-01	5.179E-04	3.6
47	P3	4117	272 (3878,4150)	6.6	1.600E-01	5.887E-04	4.3
48	P3	4154	270 (3916,4186)	6.5	1.570E-01	5.823E-04	3.5
49	P3	4190	267 (3954,4221)	6.4	1.340E-01	5.015E-04	4.9
50	P3	4226	265 (3992,4257)	6.3	1.590E-01	6.002E-04	4.5
51	P3	4263	263 (4030,4292)	6.2	1.370E-01	5.217E-04	3.3
52	P3	4299	260 (4068,4328)	6.1	1.540E-01	5.916E-04	5.0
53	P3	4336	258 (4106,4364)	6.0	1.410E-01	5.465E-04	3.7
54	P3	4372	256 (4144,4399)	5.8	1.260E-01	4.928E-04	4.0
55	P3	4409	253 (4182,4435)	5.7	1.190E-01	4.698E-04	5.0
56	P3	4445	251 (4220,4471)	5.6	1.240E-01	4.938E-04	3.1

57	P3	4482	249 (4258,4506)	5.5	1.160E-01	4.664E-04	4.6
58	P3	4518	246 (4296,4542)	5.5	1.280E-01	5.193E-04	5.0

Probe B (LOW)

Table 9: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (LOW-B): 17664.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	21.7	1.2 (20.7,21.9)	5.5	3.963E-03	3.303E-03	0.5
1	P1	22.7	1.2 (21.7,22.9)	5.3	3.936E-03	3.280E-03	0.6
2	P1	23.7	1.3 (22.7,24.0)	5.5	3.930E-03	3.023E-03	0.8
3	P1	24.6	1.1 (23.7,24.8)	4.5	3.871E-03	3.519E-03	0.6
4	P1	25.7	1.4 (24.6,26.0)	5.4	3.841E-03	2.744E-03	0.7
5	P2	32.3	1.4 (31.2,32.6)	4.3	3.373E-03	2.409E-03	0.4
6	P2	33.4	1.1 (32.3,33.4)	3.3	3.426E-03	3.115E-03	0.8
7	P2	34.2	1.6 (33.0,34.6)	4.7	3.389E-03	2.118E-03	0.4
8	P2	34.9	1.1 (34.2,35.3)	3.2	3.363E-03	3.057E-03	0.8
9	P2	36.2	1.7 (34.9,36.6)	4.7	3.379E-03	1.988E-03	0.4
10	P2	37.0	1.2 (36.2,37.4)	3.2	3.368E-03	2.807E-03	0.4
11	P2	37.8	1.3 (37.0,38.3)	3.4	3.298E-03	2.537E-03	0.5
12	P2	39.2	1.4 (37.8,39.2)	3.6	3.336E-03	2.383E-03	0.7
13	P2	40.1	1.4 (38.7,40.1)	3.5	3.268E-03	2.334E-03	0.6
14	P2	41.0	1.4 (39.6,41.0)	3.4	3.209E-03	2.292E-03	0.5
15	P3	48.6	1.7 (47.5,49.2)	3.5	2.861E-03	1.683E-03	0.3
16	P3	49.7	1.1 (48.6,49.7)	2.2	2.948E-03	2.680E-03	0.6
17	P3	50.3	1.7 (49.2,50.9)	3.4	2.929E-03	1.723E-03	0.5
18	P3	51.5	1.7 (50.3,52.0)	3.3	2.985E-03	1.756E-03	0.3
19	P3	52.6	1.1 (51.5,52.6)	2.1	2.987E-03	2.715E-03	0.5
20	P3	53.2	1.8 (52.0,53.8)	3.4	2.967E-03	1.648E-03	0.4
21	P3	54.5	1.3 (53.2,54.5)	2.4	2.978E-03	2.291E-03	0.4
22	P3	55.1	1.9 (53.8,55.7)	3.4	2.920E-03	1.537E-03	0.5
23	P3	56.4	1.3 (55.1,56.4)	2.3	2.930E-03	2.254E-03	0.3
24	P3	57.0	1.9 (55.7,57.6)	3.3	2.901E-03	1.527E-03	0.5
25	P3	58.3	1.3 (57.0,58.3)	2.2	2.911E-03	2.239E-03	0.3
26	P3	59.0	2.1 (57.6,59.7)	3.6	2.872E-03	1.368E-03	0.4
27	P3	60.3	1.3 (59.0,60.3)	2.2	2.900E-03	2.231E-03	0.5
28	P3	61.0	2.0 (59.7,61.7)	3.3	2.792E-03	1.396E-03	0.3
29	P4	70.7	2.4 (69.2,71.6)	3.4	2.502E-03	1.043E-03	0.2
30	P4	71.6	1.7 (70.7,72.4)	2.4	2.555E-03	1.503E-03	0.5
31	P4	72.4	1.6 (71.6,73.2)	2.2	2.602E-03	1.626E-03	0.7
32	P4	74.0	1.6 (72.4,74.0)	2.2	2.620E-03	1.638E-03	0.4
33	P4	74.9	1.7 (73.2,74.9)	2.3	2.624E-03	1.544E-03	0.2
34	P4	75.7	2.6 (74.0,76.6)	3.4	2.620E-03	1.008E-03	0.2
35	P4	76.6	2.6 (74.9,77.5)	3.4	2.566E-03	9.869E-04	0.3
36	P4	77.5	2.7 (75.7,78.4)	3.5	2.597E-03	9.619E-04	0.3
37	P4	78.4	1.8 (77.5,79.3)	2.3	2.589E-03	1.438E-03	0.5
38	P4	79.3	1.8 (78.4,80.2)	2.3	2.545E-03	1.414E-03	0.6
39	P4	80.2	1.8 (79.3,81.1)	2.2	2.542E-03	1.412E-03	0.7
40	P4	82.0	1.8 (80.2,82.0)	2.2	2.605E-03	1.447E-03	0.7
41	P4	83.0	1.9 (81.1,83.0)	2.3	2.567E-03	1.351E-03	0.6
42	P4	83.9	1.9 (82.0,83.9)	2.3	2.527E-03	1.330E-03	0.6
43	P4	84.9	1.9 (83.0,84.9)	2.2	2.558E-03	1.346E-03	0.6
44	P4	85.8	1.9 (83.9,85.8)	2.2	2.564E-03	1.349E-03	0.5
45	P4	86.8	1.9 (84.9,86.8)	2.2	2.533E-03	1.333E-03	0.6
46	P5	94.0	3.2 (91.9,95.1)	3.4	4.671E-03	1.460E-03	0.2
47	P5	96.2	3.3 (94.0,97.3)	3.4	4.810E-03	1.458E-03	0.3
48	P5	98.4	2.2 (96.2,98.4)	2.2	4.870E-03	2.214E-03	0.7
49	P5	99.5	3.7 (97.3,101.0)	3.7	4.729E-03	1.278E-03	0.4
50	P5	102.0	3.5 (99.5,103.0)	3.4	4.676E-03	1.336E-03	0.2
51	P5	104.0	2.0 (102.0,104.0)	1.9	4.724E-03	2.362E-03	0.5
52	P5	105.0	4.0 (103.0,107.0)	3.8	4.539E-03	1.135E-03	0.4
53	P5	108.0	4.0 (105.0,109.0)	3.7	4.606E-03	1.151E-03	0.2
54	P5	109.0	2.0 (108.0,110.0)	1.8	4.500E-03	2.250E-03	0.6
55	P5	112.0	4.0 (109.0,113.0)	3.6	4.520E-03	1.130E-03	0.2
56	P6	126.0	2.0 (124.0,126.0)	1.6	4.229E-03	2.115E-03	0.8
57	P6	128.0	4.0 (125.0,129.0)	3.1	4.322E-03	1.081E-03	0.2
58	P6	129.0	3.0 (128.0,131.0)	2.3	4.250E-03	1.417E-03	0.4
59	P6	132.0	3.0 (129.0,132.0)	2.3	4.253E-03	1.418E-03	0.7
60	P6	134.0	4.0 (131.0,135.0)	3.0	4.190E-03	1.048E-03	0.2
61	P6	135.0	5.0 (132.0,137.0)	3.7	4.090E-03	8.180E-04	0.4

62	P6	137.0	3.0 (135.0,138.0)	2.2	4.111E-03	1.370E-03	0.9
63	P6	140.0	3.0 (137.0,140.0)	2.1	4.143E-03	1.381E-03	0.5
64	P6	142.0	5.0 (138.0,143.0)	3.5	4.051E-03	8.102E-04	0.2
65	P7	162.0	3.0 (159.0,162.0)	1.9	3.875E-03	1.292E-03	0.8
66	P7	164.0	6.0 (160.0,166.0)	3.7	3.967E-03	6.612E-04	0.6
67	P7	166.0	6.0 (162.0,168.0)	3.6	3.968E-03	6.613E-04	0.4
68	P7	168.0	6.0 (164.0,170.0)	3.6	3.926E-03	6.543E-04	0.2
69	P7	170.0	4.0 (168.0,172.0)	2.4	3.867E-03	9.668E-04	0.2
70	P7	172.0	4.0 (170.0,174.0)	2.3	3.907E-03	9.767E-04	0.4
71	P7	174.0	4.0 (172.0,176.0)	2.3	3.856E-03	9.640E-04	0.7
72	P7	176.0	4.0 (174.0,178.0)	2.3	3.740E-03	9.350E-04	0.8
73	P7	178.0	4.0 (176.0,180.0)	2.2	3.749E-03	9.373E-04	0.9
74	P7	180.0	4.0 (178.0,182.0)	2.2	3.710E-03	9.275E-04	1.1
75	P8	201.6	5.4 (198.2,203.6)	2.7	3.023E-03	5.598E-04	0.5
76	P8	203.6	5.4 (200.1,205.5)	2.7	3.080E-03	5.704E-04	0.2
77	P8	205.5	5.5 (202.0,207.5)	2.7	3.153E-03	5.733E-04	0.7
78	P8	207.4	5.5 (203.9,209.4)	2.7	3.110E-03	5.655E-04	1.2
79	P8	209.4	5.6 (205.8,211.4)	2.7	3.104E-03	5.543E-04	0.9
80	P8	211.3	5.6 (207.7,213.3)	2.7	3.084E-03	5.507E-04	0.9
81	P8	213.2	5.7 (209.6,215.3)	2.7	3.061E-03	5.370E-04	0.2
82	P8	215.2	5.6 (211.6,217.2)	2.6	3.090E-03	5.518E-04	0.7
83	P8	217.1	5.7 (213.5,219.2)	2.6	3.090E-03	5.421E-04	1.5
84	P8	219.0	5.7 (215.4,221.1)	2.6	2.975E-03	5.219E-04	0.9
85	P8	221.0	5.8 (217.3,223.1)	2.6	3.009E-03	5.188E-04	0.7
86	P8	222.9	5.8 (219.2,225.0)	2.6	3.062E-03	5.279E-04	0.3
87	P8	224.8	5.9 (221.1,227.0)	2.6	2.970E-03	5.034E-04	1.3
88	P8	226.8	5.9 (223.0,228.9)	2.6	2.940E-03	4.983E-04	1.0
89	P8	228.7	5.9 (225.0,230.9)	2.6	2.961E-03	5.019E-04	0.8
90	P8	230.7	5.9 (226.9,232.8)	2.6	2.966E-03	5.027E-04	0.4

Table 10: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (LOW-B): 18690.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	21.2	2.1 (19.8,21.9)	9.9	7.952E-03	3.787E-03	0.7
1	P1	23.2	2.3 (21.7,24.0)	9.9	7.874E-03	3.423E-03	0.8
2	P1	25.1	2.3 (23.7,26.0)	9.2	7.728E-03	3.360E-03	0.5
3	P2	31.9	2.1 (30.5,32.6)	6.6	6.641E-03	3.162E-03	0.6
4	P2	33.8	2.3 (32.3,34.6)	6.8	6.820E-03	2.965E-03	0.5
5	P2	35.8	2.4 (34.2,36.6)	6.7	6.800E-03	2.833E-03	0.7
6	P2	37.4	2.1 (36.2,38.3)	5.6	6.670E-03	3.176E-03	0.4
7	P2	39.6	2.3 (37.8,40.1)	5.8	6.605E-03	2.872E-03	0.7
8	P3	49.7	2.3 (48.6,50.9)	4.6	5.820E-03	2.530E-03	0.7
9	P3	52.0	2.3 (50.3,52.6)	4.4	5.971E-03	2.596E-03	0.4
10	P3	53.8	2.5 (52.0,54.5)	4.6	5.951E-03	2.380E-03	0.3
11	P3	55.7	2.6 (53.8,56.4)	4.7	5.854E-03	2.252E-03	0.3
12	P3	57.6	2.6 (55.7,58.3)	4.5	5.819E-03	2.238E-03	0.3
13	P3	59.7	2.7 (57.6,60.3)	4.5	5.775E-03	2.139E-03	0.3
14	P4	71.6	3.2 (69.2,72.4)	4.5	5.115E-03	1.598E-03	0.4
15	P4	73.2	2.4 (71.6,74.0)	3.3	5.223E-03	2.176E-03	0.2
16	P4	74.9	2.5 (73.2,75.7)	3.3	5.181E-03	2.072E-03	0.6
17	P4	77.5	3.5 (74.9,78.4)	4.5	5.223E-03	1.492E-03	0.5
18	P4	79.3	2.7 (77.5,80.2)	3.4	5.198E-03	1.925E-03	0.3
19	P4	81.1	2.7 (79.3,82.0)	3.3	5.154E-03	1.909E-03	0.2
20	P4	83.0	2.8 (81.1,83.9)	3.4	5.045E-03	1.802E-03	0.2
21	P4	84.9	2.8 (83.0,85.8)	3.3	5.066E-03	1.809E-03	0.3
22	P5	94.0	3.2 (91.9,95.1)	3.4	4.671E-03	1.460E-03	0.2
23	P5	96.2	3.3 (94.0,97.3)	3.4	4.810E-03	1.458E-03	0.3
24	P5	98.4	2.2 (96.2,98.4)	2.2	4.870E-03	2.214E-03	0.7
25	P5	99.5	3.7 (97.3,101.0)	3.7	4.729E-03	1.278E-03	0.4
26	P5	102.0	3.5 (99.5,103.0)	3.4	4.676E-03	1.336E-03	0.2
27	P5	104.0	2.0 (102.0,104.0)	1.9	4.724E-03	2.362E-03	0.5
28	P5	105.0	4.0 (103.0,107.0)	3.8	4.539E-03	1.135E-03	0.4
29	P5	108.0	4.0 (105.0,109.0)	3.7	4.606E-03	1.151E-03	0.2
30	P5	109.0	2.0 (108.0,110.0)	1.8	4.500E-03	2.250E-03	0.6

31	P5	112.0	4.0 (109.0,113.0)	3.6	4.520E-03	1.130E-03	0.2
32	P6	126.0	2.0 (124.0,126.0)	1.6	4.229E-03	2.115E-03	0.8
33	P6	128.0	4.0 (125.0,129.0)	3.1	4.322E-03	1.081E-03	0.2
34	P6	129.0	3.0 (128.0,131.0)	2.3	4.250E-03	1.417E-03	0.4
35	P6	132.0	3.0 (129.0,132.0)	2.3	4.253E-03	1.418E-03	0.7
36	P6	134.0	4.0 (131.0,135.0)	3.0	4.190E-03	1.048E-03	0.2
37	P6	135.0	5.0 (132.0,137.0)	3.7	4.090E-03	8.180E-04	0.4
38	P6	137.0	3.0 (135.0,138.0)	2.2	4.111E-03	1.370E-03	0.9
39	P6	140.0	3.0 (137.0,140.0)	2.1	4.143E-03	1.381E-03	0.5
40	P6	142.0	5.0 (138.0,143.0)	3.5	4.051E-03	8.102E-04	0.2
41	P7	162.0	3.0 (159.0,162.0)	1.9	3.875E-03	1.292E-03	0.8
42	P7	164.0	6.0 (160.0,166.0)	3.7	3.967E-03	6.612E-04	0.6
43	P7	166.0	6.0 (162.0,168.0)	3.6	3.968E-03	6.613E-04	0.4
44	P7	168.0	6.0 (164.0,170.0)	3.6	3.926E-03	6.543E-04	0.2
45	P7	170.0	4.0 (168.0,172.0)	2.4	3.867E-03	9.668E-04	0.2
46	P7	172.0	4.0 (170.0,174.0)	2.3	3.907E-03	9.767E-04	0.4
47	P7	174.0	4.0 (172.0,176.0)	2.3	3.856E-03	9.640E-04	0.7
48	P7	176.0	4.0 (174.0,178.0)	2.3	3.740E-03	9.350E-04	0.8
49	P7	178.0	4.0 (176.0,180.0)	2.2	3.749E-03	9.373E-04	0.9
50	P7	180.0	4.0 (178.0,182.0)	2.2	3.710E-03	9.275E-04	1.1
51	P8	202.0	4.7 (199.5,204.2)	2.3	3.040E-03	6.468E-04	1.3
52	P8	204.0	4.8 (201.4,206.2)	2.4	3.082E-03	6.421E-04	0.9
53	P8	206.0	4.9 (203.3,208.2)	2.4	3.059E-03	6.243E-04	0.8
54	P8	208.0	5.0 (205.2,210.2)	2.4	3.097E-03	6.194E-04	0.3
55	P8	210.0	5.1 (207.1,212.2)	2.4	3.182E-03	6.239E-04	0.7
56	P8	212.0	5.2 (209.0,214.2)	2.5	3.080E-03	5.923E-04	1.3
57	P8	214.0	5.3 (210.9,216.2)	2.5	3.039E-03	5.734E-04	0.9
58	P8	215.9	5.4 (212.8,218.2)	2.5	3.045E-03	5.639E-04	0.9
59	P8	217.9	5.5 (214.7,220.2)	2.5	3.045E-03	5.536E-04	0.2
60	P8	219.9	5.7 (216.6,222.3)	2.6	3.020E-03	5.298E-04	0.9
61	P8	221.9	5.8 (218.5,224.3)	2.6	2.980E-03	5.138E-04	1.3
62	P8	223.9	5.9 (220.4,226.3)	2.6	2.960E-03	5.017E-04	1.0
63	P8	225.9	6.0 (222.3,228.3)	2.7	2.997E-03	4.995E-04	0.4
64	P8	227.9	6.1 (224.2,230.3)	2.7	2.991E-03	4.903E-04	0.9

Probe B (M35)

Table 11: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M35-B): 39168.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	141	6 (135,141)	4.3	1.980E-02	3.300E-03	1.7
1	P1	144	6 (138,144)	4.2	2.040E-02	3.400E-03	1.5
2	P1	149	7 (142,149)	4.7	2.100E-02	3.000E-03	1.3
3	P1	154	7 (147,154)	4.5	2.100E-02	3.043E-03	1.3
4	P1	160	7 (153,160)	4.4	2.110E-02	3.014E-03	1.4
5	P1	163	7 (156,163)	4.3	2.070E-02	2.957E-03	1.2
6	P1	169	6 (163,169)	3.6	2.080E-02	3.467E-03	1.3
7	P1	173	8 (165,173)	4.6	2.050E-02	2.563E-03	1.2
8	P1	179	6 (173,179)	3.4	2.060E-02	3.433E-03	1.3
9	P1	183	8 (175,183)	4.4	2.020E-02	2.525E-03	1.1
10	P1	187	6 (181,187)	3.4	1.900E-02	3.016E-03	1.2
11	P2	227	8 (219,227)	3.5	1.740E-02	2.203E-03	1.2
12	P2	230	6 (224,230)	2.7	1.820E-02	2.889E-03	1.0
13	P2	235	7 (228,235)	2.9	1.867E-02	2.746E-03	0.9
14	P2	240	7 (233,240)	3.0	1.888E-02	2.622E-03	0.9
15	P2	246	9 (237,246)	3.5	1.910E-02	2.221E-03	1.1
16	P2	249	7 (242,249)	2.8	1.864E-02	2.663E-03	0.9
17	P2	254	8 (246,254)	3.0	1.872E-02	2.496E-03	0.8
18	P2	257	6 (251,257)	2.3	1.840E-02	3.119E-03	1.0
19	P2	263	7 (256,263)	2.8	1.842E-02	2.523E-03	0.8
20	P2	269	9 (260,269)	3.2	1.835E-02	2.109E-03	0.9
21	P2	272	7 (265,272)	2.6	1.828E-02	2.539E-03	0.9
22	P2	279	10 (269,279)	3.4	1.821E-02	1.897E-03	0.8
23	P2	282	8 (274,282)	2.8	1.785E-02	2.231E-03	0.8
24	P3	330	9 (321,330)	2.7	1.532E-02	1.721E-03	0.7
25	P3	334	8 (326,334)	2.5	1.588E-02	1.937E-03	0.7
26	P3	338	8 (330,338)	2.2	1.608E-02	2.116E-03	0.9
27	P3	346	11 (335,346)	3.2	1.659E-02	1.508E-03	0.9
28	P3	350	10 (340,350)	3.0	1.659E-02	1.595E-03	0.6
29	P3	354	9 (344,354)	2.7	1.659E-02	1.765E-03	0.6
30	P3	358	9 (349,358)	2.5	1.654E-02	1.818E-03	0.6
31	P3	362	8 (354,362)	2.3	1.631E-02	1.919E-03	0.8
32	P3	370	12 (358,370)	3.2	1.649E-02	1.386E-03	0.9
33	P3	374	11 (363,374)	3.0	1.645E-02	1.469E-03	0.8
34	P3	379	12 (367,379)	3.1	1.638E-02	1.412E-03	0.6
35	P3	383	11 (372,383)	2.9	1.627E-02	1.479E-03	0.6
36	P3	387	10 (377,387)	2.7	1.613E-02	1.551E-03	0.6
37	P3	392	11 (381,392)	2.7	1.588E-02	1.484E-03	0.5
38	P3	396	10 (386,396)	2.6	1.577E-02	1.561E-03	0.6
39	P4	445	14 (431,445)	3.1	1.318E-02	9.482E-04	0.4
40	P4	449	14 (436,449)	3.1	1.347E-02	9.761E-04	0.4
41	P4	454	14 (440,454)	3.0	1.388E-02	1.021E-03	0.5
42	P4	459	14 (445,459)	2.9	1.407E-02	1.042E-03	0.6
43	P4	463	13 (450,463)	2.9	1.385E-02	1.041E-03	0.7
44	P4	468	13 (455,468)	2.8	1.394E-02	1.056E-03	0.8
45	P4	473	13 (460,473)	2.8	1.381E-02	1.062E-03	0.7
46	P4	477	13 (464,477)	2.7	1.357E-02	1.052E-03	0.7
47	P4	482	13 (469,482)	2.7	1.356E-02	1.059E-03	0.5
48	P4	487	13 (474,487)	2.6	1.357E-02	1.077E-03	0.4
49	P4	491	12 (479,491)	2.5	1.331E-02	1.065E-03	0.4
50	P4	496	12 (484,496)	2.5	1.342E-02	1.091E-03	0.6
51	P4	501	12 (488,501)	2.4	1.323E-02	1.084E-03	0.8
52	P4	505	12 (493,505)	2.4	1.297E-02	1.081E-03	0.6
53	P4	510	12 (498,510)	2.3	1.320E-02	1.109E-03	0.5
54	P4	514	12 (503,514)	2.3	1.286E-02	1.099E-03	0.4
55	P5	571	14 (558,571)	2.4	1.163E-02	8.428E-04	0.4
56	P5	576	14 (562,576)	2.4	1.221E-02	8.721E-04	0.4
57	P5	581	14 (567,581)	2.5	1.226E-02	8.573E-04	0.7
58	P5	586	15 (572,586)	2.5	1.242E-02	8.507E-04	0.7
59	P5	591	15 (577,591)	2.5	1.235E-02	8.401E-04	0.4
60	P5	596	15 (582,596)	2.5	1.261E-02	8.407E-04	0.3
61	P5	601	15 (586,602)	2.5	1.244E-02	8.131E-04	0.8

62	P5	606	15 (591,607)	2.5	1.236E-02	8.026E-04	0.5
63	P5	611	16 (596,612)	2.6	1.208E-02	7.694E-04	0.4
64	P5	616	16 (601,617)	2.6	1.244E-02	7.775E-04	0.5
65	P5	621	16 (606,622)	2.6	1.217E-02	7.559E-04	0.7
66	P5	626	16 (610,627)	2.6	1.206E-02	7.354E-04	0.3
67	P5	631	17 (615,632)	2.6	1.208E-02	7.234E-04	0.4
68	P5	636	17 (620,637)	2.6	1.184E-02	7.048E-04	0.9
69	P5	641	17 (625,642)	2.7	1.167E-02	6.825E-04	0.4
70	P5	646	17 (630,647)	2.7	1.168E-02	6.751E-04	0.3
71	P5	650	18 (635,652)	2.7	1.187E-02	6.744E-04	0.9
72	P6	698	19 (683,701)	2.7	9.911E-03	5.328E-04	0.3
73	P6	703	19 (688,706)	2.6	9.953E-03	5.351E-04	0.9
74	P6	708	18 (692,711)	2.6	1.031E-02	5.573E-04	0.4
75	P6	713	18 (697,716)	2.6	1.032E-02	5.609E-04	0.4
76	P6	718	18 (702,721)	2.5	1.027E-02	5.612E-04	0.4
77	P6	723	18 (707,725)	2.5	1.051E-02	5.775E-04	0.4
78	P6	728	18 (712,730)	2.5	1.039E-02	5.709E-04	1.0
79	P6	733	18 (717,735)	2.5	1.035E-02	5.687E-04	0.4
80	P6	738	18 (722,740)	2.5	1.043E-02	5.762E-04	0.5
81	P6	743	18 (727,745)	2.4	1.033E-02	5.739E-04	0.4
82	P6	748	18 (732,750)	2.4	1.035E-02	5.750E-04	0.4
83	P6	753	18 (736,754)	2.4	9.889E-03	5.525E-04	0.7
84	P6	758	18 (741,759)	2.3	1.015E-02	5.702E-04	0.5
85	P6	763	18 (746,764)	2.3	9.951E-03	5.622E-04	0.9
86	P6	768	18 (751,769)	2.3	9.910E-03	5.599E-04	0.4
87	P6	773	18 (756,774)	2.3	9.792E-03	5.532E-04	0.6
88	P6	778	18 (761,778)	2.3	9.881E-03	5.614E-04	0.2
89	P6	783	18 (766,783)	2.2	9.545E-03	5.454E-04	0.6
90	P7	857	19 (839,857)	2.2	8.439E-03	4.489E-04	0.7
91	P7	862	19 (843,862)	2.2	8.617E-03	4.488E-04	0.5
92	P7	867	19 (848,867)	2.2	8.679E-03	4.474E-04	0.7
93	P7	871	20 (852,872)	2.3	8.529E-03	4.329E-04	0.5
94	P7	876	20 (857,877)	2.3	8.905E-03	4.453E-04	0.8
95	P7	881	20 (861,882)	2.3	8.830E-03	4.350E-04	0.5
96	P7	885	21 (866,887)	2.3	8.784E-03	4.264E-04	0.9
97	P7	890	21 (871,892)	2.3	8.722E-03	4.173E-04	0.6
98	P7	895	21 (875,896)	2.4	8.720E-03	4.113E-04	1.1
99	P7	899	22 (880,901)	2.4	8.559E-03	3.981E-04	0.7
100	P7	904	22 (884,906)	2.4	8.410E-03	3.858E-04	1.1
101	P7	909	22 (889,911)	2.4	8.606E-03	3.894E-04	0.7
102	P7	913	22 (894,916)	2.5	8.354E-03	3.729E-04	0.9
103	P7	918	23 (898,921)	2.5	8.395E-03	3.715E-04	0.7
104	P7	923	23 (903,926)	2.5	8.248E-03	3.602E-04	0.4
105	P7	927	23 (907,931)	2.5	8.166E-03	3.520E-04	0.7
106	P7	932	24 (912,936)	2.5	8.316E-03	3.539E-04	0.4
107	P7	937	24 (917,940)	2.5	8.204E-03	3.447E-04	0.8
108	P8	1018	25 (995,1021)	2.5	6.538E-03	2.574E-04	0.7
109	P8	1023	25 (1000,1026)	2.5	6.847E-03	2.696E-04	0.7
110	P8	1028	25 (1005,1030)	2.5	7.065E-03	2.781E-04	0.8
111	P8	1033	26 (1009,1035)	2.5	7.179E-03	2.815E-04	0.8
112	P8	1037	25 (1014,1040)	2.5	7.203E-03	2.825E-04	1.0
113	P8	1042	26 (1019,1044)	2.4	6.935E-03	2.720E-04	0.8
114	P8	1047	26 (1024,1049)	2.4	7.097E-03	2.783E-04	0.6
115	P8	1051	26 (1028,1054)	2.4	6.909E-03	2.699E-04	0.9
116	P8	1056	26 (1033,1058)	2.4	7.094E-03	2.771E-04	1.0
117	P8	1061	26 (1038,1063)	2.4	7.070E-03	2.762E-04	1.3
118	P8	1066	26 (1042,1068)	2.4	7.037E-03	2.728E-04	0.9
119	P8	1070	26 (1047,1073)	2.4	7.028E-03	2.724E-04	0.3
120	P8	1075	26 (1052,1077)	2.4	7.120E-03	2.760E-04	1.1
121	P8	1080	26 (1056,1082)	2.4	7.100E-03	2.752E-04	1.0
122	P8	1084	26 (1061,1087)	2.4	6.850E-03	2.645E-04	1.1
123	P8	1089	26 (1066,1091)	2.4	6.960E-03	2.687E-04	1.3
124	P8	1094	26 (1070,1096)	2.4	6.707E-03	2.590E-04	0.9
125	P8	1098	26 (1075,1101)	2.4	7.110E-03	2.735E-04	1.3
126	P8	1103	26 (1080,1106)	2.4	6.840E-03	2.631E-04	1.3
127	P8	1108	26 (1084,1110)	2.4	6.412E-03	2.457E-04	0.3
128	P8	1112	26 (1089,1115)	2.3	6.500E-03	2.490E-04	1.3

Table 12: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M35-B): 39169.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	142	11 (133,144)	7.7	4.030E-02	3.664E-03	1.5
1	P1	151	12 (142,154)	7.9	4.160E-02	3.467E-03	1.5
2	P1	161	12 (151,163)	7.5	4.180E-02	3.483E-03	1.2
3	P1	171	12 (161,173)	7.0	4.140E-02	3.450E-03	1.2
4	P1	181	12 (171,183)	6.6	4.080E-02	3.400E-03	1.2
5	P2	227	13 (217,230)	5.7	3.540E-02	2.723E-03	1.2
6	P2	238	11 (227,238)	4.6	3.753E-02	3.412E-03	0.9
7	P2	246	14 (235,249)	5.7	3.746E-02	2.676E-03	1.0
8	P2	257	11 (246,257)	4.3	3.745E-02	3.405E-03	0.9
9	P2	266	12 (254,266)	4.5	3.680E-02	3.067E-03	0.8
10	P2	275	12 (263,275)	4.4	3.651E-02	3.043E-03	0.8
11	P2	285	13 (272,285)	4.6	3.451E-02	2.655E-03	0.8
12	P3	338	15 (323,338)	4.4	3.228E-02	2.152E-03	0.7
13	P3	346	12 (334,346)	3.5	3.294E-02	2.745E-03	0.7
14	P3	358	16 (342,358)	4.5	3.337E-02	2.086E-03	0.8
15	P3	366	12 (354,366)	3.3	3.287E-02	2.739E-03	0.6
16	P3	374	12 (362,374)	3.2	3.257E-02	2.714E-03	0.7
17	P3	383	13 (370,383)	3.4	3.206E-02	2.466E-03	0.8
18	P3	396	17 (379,396)	4.3	3.184E-02	1.873E-03	0.9
19	P4	444	10 (434,444)	2.3	2.639E-02	2.639E-03	0.8
20	P4	454	15 (439,454)	3.3	2.770E-02	1.847E-03	0.6
21	P4	465	16 (449,465)	3.4	2.759E-02	1.724E-03	0.4
22	P4	475	15 (460,475)	3.2	2.765E-02	1.843E-03	0.4
23	P4	486	16 (470,486)	3.3	2.735E-02	1.709E-03	0.7
24	P4	492	11 (481,492)	2.2	2.650E-02	2.409E-03	0.6
25	P4	503	17 (486,503)	3.4	2.624E-02	1.544E-03	0.4
26	P4	515	17 (498,515)	3.3	2.629E-02	1.546E-03	0.7
27	P5	577	19 (558,577)	3.3	2.404E-02	1.265E-03	0.8
28	P5	584	14 (570,584)	2.4	2.469E-02	1.764E-03	0.3
29	P5	597	20 (577,597)	3.4	2.516E-02	1.258E-03	0.9
30	P5	604	14 (590,604)	2.3	2.482E-02	1.773E-03	0.4
31	P5	611	21 (597,618)	3.4	2.430E-02	1.157E-03	0.8
32	P5	625	14 (611,625)	2.2	2.445E-02	1.746E-03	0.6
33	P5	632	14 (618,632)	2.2	2.390E-02	1.707E-03	0.4
34	P5	639	21 (625,646)	3.3	2.315E-02	1.102E-03	0.9
35	P5	654	15 (639,654)	2.3	2.319E-02	1.546E-03	0.5
36	P6	700	23 (677,700)	3.3	1.930E-02	8.391E-04	0.9
37	P6	708	16 (692,708)	2.3	2.044E-02	1.277E-03	0.7
38	P6	716	16 (700,716)	2.2	2.060E-02	1.288E-03	0.3
39	P6	724	25 (708,733)	3.5	2.088E-02	8.352E-04	0.4
40	P6	733	25 (716,741)	3.4	2.058E-02	8.232E-04	0.6
41	P6	741	25 (724,749)	3.4	2.050E-02	8.200E-04	1.0
42	P6	758	17 (741,758)	2.2	2.022E-02	1.189E-03	0.9
43	P6	767	18 (749,767)	2.3	1.986E-02	1.103E-03	0.6
44	P6	775	17 (758,775)	2.2	1.968E-02	1.158E-03	0.3
45	P7	861	18 (843,861)	2.1	1.706E-02	9.425E-04	0.6
46	P7	870	19 (851,870)	2.2	1.721E-02	9.154E-04	0.6
47	P7	879	20 (860,879)	2.2	1.774E-02	9.097E-04	0.7
48	P7	888	20 (869,889)	2.3	1.750E-02	8.621E-04	0.7
49	P7	897	21 (878,899)	2.3	1.729E-02	8.233E-04	0.9
50	P7	906	22 (887,909)	2.4	1.720E-02	7.926E-04	1.0
51	P7	915	24 (896,920)	2.6	1.690E-02	7.191E-04	1.2
52	P7	924	24 (906,930)	2.6	1.620E-02	6.694E-04	1.0
53	P7	933	26 (915,941)	2.8	1.633E-02	6.305E-04	0.9
54	P8	1019	24 (998,1023)	2.4	1.338E-02	5.552E-04	0.4
55	P8	1029	24 (1008,1032)	2.4	1.424E-02	5.812E-04	0.8
56	P8	1038	25 (1017,1042)	2.4	1.414E-02	5.656E-04	0.9
57	P8	1047	25 (1026,1051)	2.4	1.390E-02	5.494E-04	1.1
58	P8	1056	26 (1035,1060)	2.4	1.402E-02	5.455E-04	0.4
59	P8	1066	26 (1044,1070)	2.5	1.407E-02	5.370E-04	0.6
60	P8	1075	27 (1053,1080)	2.5	1.420E-02	5.338E-04	1.1
61	P8	1084	27 (1062,1089)	2.5	1.370E-02	5.055E-04	1.3

62	P8	1093	27 (1071,1098)	2.5	1.366E-02	4.985E-04	0.5
63	P8	1103	28 (1080,1108)	2.5	1.326E-02	4.770E-04	0.7
64	P8	1112	28 (1089,1117)	2.5	1.290E-02	4.558E-04	1.2

Probe B (M75)

Table 13: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M75-B): 25856.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0\Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	139	7 (132,139)	5.0	1.960E-02	2.800E-03	1.5
1	P1	144	6 (138,144)	4.2	2.020E-02	3.367E-03	1.4
2	P1	149	6 (143,149)	4.0	2.040E-02	3.400E-03	1.4
3	P1	154	6 (148,154)	3.9	2.040E-02	3.400E-03	1.5
4	P1	158	7 (151,158)	4.4	2.010E-02	2.871E-03	1.4
5	P1	163	7 (156,163)	4.3	2.020E-02	2.886E-03	1.2
6	P1	169	6 (163,169)	3.6	2.010E-02	3.350E-03	1.4
7	P1	173	8 (165,173)	4.6	1.980E-02	2.475E-03	1.2
8	P1	177	6 (171,177)	3.4	1.960E-02	3.267E-03	1.3
9	P1	183	8 (175,183)	4.4	1.900E-02	2.375E-03	1.2
10	P2	222	7 (215,222)	3.1	1.588E-02	2.335E-03	0.9
11	P2	227	7 (220,227)	3.3	1.663E-02	2.247E-03	1.0
12	P2	232	8 (224,232)	3.4	1.700E-02	2.152E-03	1.1
13	P2	235	6 (228,235)	2.8	1.683E-02	2.589E-03	0.9
14	P2	240	7 (233,240)	3.0	1.689E-02	2.379E-03	0.9
15	P2	243	6 (237,243)	2.3	1.690E-02	3.018E-03	1.1
16	P2	249	7 (242,249)	2.9	1.688E-02	2.344E-03	0.9
17	P2	254	8 (246,254)	3.1	1.693E-02	2.171E-03	0.9
18	P2	257	6 (251,257)	2.5	1.659E-02	2.592E-03	0.9
19	P2	263	8 (255,263)	3.0	1.668E-02	2.111E-03	0.8
20	P2	266	6 (260,266)	2.4	1.646E-02	2.532E-03	0.9
21	P2	272	8 (264,272)	3.0	1.654E-02	2.042E-03	0.8
22	P2	275	7 (268,275)	2.4	1.614E-02	2.409E-03	0.8
23	P2	282	9 (273,282)	3.3	1.568E-02	1.704E-03	0.8
24	P3	323	9 (314,323)	2.8	1.336E-02	1.452E-03	0.7
25	P3	327	9 (318,327)	2.6	1.381E-02	1.606E-03	0.8
26	P3	330	8 (322,330)	2.4	1.426E-02	1.783E-03	0.8
27	P3	338	11 (327,338)	3.4	1.453E-02	1.275E-03	0.9
28	P3	342	11 (331,342)	3.2	1.472E-02	1.326E-03	0.7
29	P3	346	11 (335,346)	3.1	1.463E-02	1.355E-03	0.6
30	P3	350	10 (340,350)	3.0	1.458E-02	1.389E-03	0.6
31	P3	354	10 (344,354)	2.8	1.447E-02	1.462E-03	0.6
32	P3	358	10 (348,358)	2.8	1.426E-02	1.440E-03	0.6
33	P3	362	10 (352,362)	2.7	1.432E-02	1.476E-03	0.6
34	P3	366	9 (357,366)	2.6	1.411E-02	1.501E-03	0.6
35	P3	370	9 (361,370)	2.5	1.414E-02	1.554E-03	0.7
36	P3	374	9 (365,374)	2.4	1.417E-02	1.610E-03	0.6
37	P3	379	10 (370,379)	2.5	1.408E-02	1.482E-03	0.6
38	P3	383	9 (374,383)	2.4	1.387E-02	1.491E-03	0.7
39	P3	387	9 (378,387)	2.3	1.352E-02	1.502E-03	0.7
40	P4	442	10 (432,442)	2.3	1.248E-02	1.236E-03	0.7
41	P4	447	10 (436,447)	2.3	1.277E-02	1.228E-03	0.8
42	P4	452	11 (441,452)	2.4	1.298E-02	1.213E-03	0.8
43	P4	456	11 (445,456)	2.4	1.315E-02	1.206E-03	0.7
44	P4	460	11 (449,460)	2.4	1.333E-02	1.190E-03	0.5
45	P4	465	11 (454,465)	2.5	1.314E-02	1.153E-03	0.4
46	P4	470	12 (458,470)	2.5	1.320E-02	1.128E-03	0.4
47	P4	474	12 (462,474)	2.5	1.326E-02	1.105E-03	0.6
48	P4	479	12 (466,479)	2.5	1.314E-02	1.077E-03	0.7
49	P4	483	12 (471,483)	2.6	1.286E-02	1.029E-03	0.6
50	P4	488	13 (475,488)	2.6	1.281E-02	1.009E-03	0.6
51	P4	492	13 (479,492)	2.6	1.266E-02	9.814E-04	0.4
52	P4	497	13 (483,497)	2.7	1.278E-02	9.609E-04	0.5
53	P4	501	14 (488,501)	2.7	1.265E-02	9.370E-04	0.7
54	P4	506	14 (492,506)	2.7	1.231E-02	8.920E-04	0.6
55	P4	510	14 (496,510)	2.7	1.260E-02	9.000E-04	0.5
56	P4	515	14 (500,515)	2.8	1.230E-02	8.662E-04	0.4
57	P4	519	15 (505,519)	2.8	1.205E-02	8.310E-04	0.6
58	P5	577	19 (558,577)	3.3	2.142E-02	1.127E-03	0.7
59	P5	584	14 (570,584)	2.4	2.187E-02	1.562E-03	0.4
60	P5	590	13 (577,590)	2.2	2.215E-02	1.704E-03	0.7
61	P5	604	20 (584,604)	3.3	2.207E-02	1.103E-03	0.8

62	P5	611	14 (597,611)	2.3	2.181E-02	1.558E-03	0.5
63	P5	618	14 (604,618)	2.3	2.187E-02	1.562E-03	0.3
64	P5	625	21 (611,632)	3.4	2.138E-02	1.018E-03	0.7
65	P5	632	21 (618,639)	3.3	2.098E-02	9.990E-04	0.9
66	P5	646	14 (632,646)	2.2	2.091E-02	1.494E-03	0.7
67	P5	654	15 (639,654)	2.3	2.041E-02	1.361E-03	0.4
68	P6	708	16 (692,708)	2.3	1.859E-02	1.162E-03	0.3
69	P6	716	16 (700,716)	2.2	1.904E-02	1.190E-03	0.4
70	P6	724	25 (708,733)	3.5	1.966E-02	7.864E-04	0.5
71	P6	733	25 (716,741)	3.4	1.946E-02	7.784E-04	0.6
72	P6	741	25 (724,749)	3.4	1.940E-02	7.760E-04	0.9
73	P6	749	17 (741,758)	2.3	1.920E-02	1.129E-03	1.0
74	P6	767	18 (749,767)	2.3	1.935E-02	1.075E-03	0.9
75	P6	775	17 (758,775)	2.2	1.884E-02	1.108E-03	0.8
76	P6	784	17 (767,784)	2.2	1.892E-02	1.113E-03	0.8
77	P6	793	18 (775,793)	2.3	1.809E-02	1.005E-03	0.7
78	P7	869	22 (849,871)	2.5	1.566E-02	7.151E-04	0.5
79	P7	878	22 (858,880)	2.5	1.639E-02	7.383E-04	0.7
80	P7	887	23 (867,889)	2.5	1.628E-02	7.204E-04	0.8
81	P7	895	23 (875,898)	2.6	1.620E-02	7.013E-04	1.1
82	P7	904	23 (884,907)	2.6	1.590E-02	6.795E-04	1.0
83	P7	913	24 (892,916)	2.6	1.602E-02	6.731E-04	0.8
84	P7	922	24 (901,925)	2.6	1.597E-02	6.627E-04	0.5
85	P7	931	25 (910,934)	2.6	1.557E-02	6.329E-04	0.4
86	P7	940	25 (918,943)	2.7	1.537E-02	6.148E-04	0.7
87	P7	948	25 (927,952)	2.7	1.537E-02	6.075E-04	0.8
88	P8	1020	28 (999,1028)	2.8	1.282E-02	4.546E-04	0.7
89	P8	1029	28 (1008,1036)	2.7	1.342E-02	4.776E-04	0.6
90	P8	1038	28 (1016,1044)	2.7	1.325E-02	4.749E-04	0.8
91	P8	1047	28 (1025,1053)	2.7	1.300E-02	4.676E-04	1.2
92	P8	1056	28 (1034,1061)	2.6	1.320E-02	4.783E-04	0.4
93	P8	1065	27 (1042,1070)	2.6	1.319E-02	4.814E-04	0.8
94	P8	1074	27 (1051,1078)	2.5	1.340E-02	4.926E-04	1.1
95	P8	1083	27 (1059,1086)	2.5	1.298E-02	4.790E-04	0.8
96	P8	1092	27 (1068,1095)	2.5	1.290E-02	4.796E-04	0.5
97	P8	1101	27 (1076,1103)	2.4	1.290E-02	4.813E-04	1.3

Table 14: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (M75-B): 26880.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0 \Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P1	136	11 (127,138)	8.1	3.740E-02	3.400E-03	1.7
1	P1	146	11 (136,147)	7.5	4.030E-02	3.664E-03	1.4
2	P1	156	12 (146,158)	7.7	4.050E-02	3.375E-03	1.3
3	P1	165	11 (156,167)	6.7	4.000E-02	3.636E-03	1.3
4	P1	175	12 (165,177)	6.9	3.940E-02	3.283E-03	1.2
5	P2	224	10 (214,224)	4.5	3.247E-02	3.247E-03	0.9
6	P2	232	13 (222,235)	5.6	3.360E-02	2.585E-03	1.0
7	P2	243	11 (232,243)	4.4	3.406E-02	3.154E-03	1.0
8	P2	251	11 (240,251)	4.4	3.381E-02	3.074E-03	0.8
9	P2	260	11 (249,260)	4.2	3.328E-02	3.025E-03	0.8
10	P2	269	12 (257,269)	4.5	3.301E-02	2.751E-03	0.7
11	P2	279	13 (266,279)	4.7	3.182E-02	2.448E-03	0.7
12	P3	330	15 (316,330)	4.4	2.833E-02	1.927E-03	0.6
13	P3	338	11 (327,338)	3.3	2.906E-02	2.572E-03	0.6
14	P3	346	12 (334,346)	3.5	2.890E-02	2.408E-03	0.8
15	P3	358	16 (342,358)	4.5	2.892E-02	1.808E-03	0.8
16	P3	366	12 (354,366)	3.3	2.867E-02	2.389E-03	0.7
17	P3	374	12 (362,374)	3.2	2.855E-02	2.379E-03	0.6
18	P3	383	13 (370,383)	3.4	2.820E-02	2.169E-03	0.6
19	P3	392	13 (379,392)	3.3	2.688E-02	2.068E-03	0.6
20	P4	444	15 (429,444)	3.4	2.508E-02	1.672E-03	0.5
21	P4	454	15 (439,454)	3.3	2.639E-02	1.759E-03	0.4
22	P4	465	16 (449,465)	3.4	2.667E-02	1.667E-03	0.7
23	P4	470	10 (460,470)	2.1	2.622E-02	2.622E-03	0.6

24	P4	481	16 (465,481)	3.3	2.603E-02	1.627E-03	0.4
25	P4	492	17 (475,492)	3.5	2.568E-02	1.511E-03	0.6
26	P4	498	12 (486,498)	2.4	2.521E-02	2.101E-03	0.5
27	P4	509	17 (492,509)	3.3	2.513E-02	1.478E-03	0.5
28	P4	515	12 (503,515)	2.3	2.413E-02	2.011E-03	0.7
29	P5	577	19 (558,577)	3.3	2.142E-02	1.127E-03	0.7
30	P5	584	14 (570,584)	2.4	2.187E-02	1.562E-03	0.4
31	P5	590	13 (577,590)	2.2	2.215E-02	1.704E-03	0.7
32	P5	604	20 (584,604)	3.3	2.207E-02	1.103E-03	0.8
33	P5	611	14 (597,611)	2.3	2.181E-02	1.558E-03	0.5
34	P5	618	14 (604,618)	2.3	2.187E-02	1.562E-03	0.3
35	P5	625	21 (611,632)	3.4	2.138E-02	1.018E-03	0.7
36	P5	632	21 (618,639)	3.3	2.098E-02	9.990E-04	0.9
37	P5	646	14 (632,646)	2.2	2.091E-02	1.494E-03	0.7
38	P5	654	15 (639,654)	2.3	2.041E-02	1.361E-03	0.4
39	P6	708	16 (692,708)	2.3	1.859E-02	1.162E-03	0.3
40	P6	716	16 (700,716)	2.2	1.904E-02	1.190E-03	0.4
41	P6	724	25 (708,733)	3.5	1.966E-02	7.864E-04	0.5
42	P6	733	25 (716,741)	3.4	1.946E-02	7.784E-04	0.6
43	P6	741	25 (724,749)	3.4	1.940E-02	7.760E-04	0.9
44	P6	749	17 (741,758)	2.3	1.920E-02	1.129E-03	1.0
45	P6	767	18 (749,767)	2.3	1.935E-02	1.075E-03	0.9
46	P6	775	17 (758,775)	2.2	1.884E-02	1.108E-03	0.8
47	P6	784	17 (767,784)	2.2	1.892E-02	1.113E-03	0.8
48	P6	793	18 (775,793)	2.3	1.809E-02	1.005E-03	0.7
49	P7	861	26 (841,868)	3.1	1.500E-02	5.660E-04	1.1
50	P7	870	26 (851,877)	3.0	1.583E-02	6.088E-04	0.8
51	P7	880	26 (860,885)	2.9	1.621E-02	6.332E-04	0.6
52	P7	889	25 (869,894)	2.8	1.612E-02	6.422E-04	0.4
53	P7	898	25 (878,903)	2.7	1.600E-02	6.504E-04	0.4
54	P7	907	24 (888,912)	2.7	1.624E-02	6.711E-04	0.6
55	P7	916	24 (897,920)	2.6	1.605E-02	6.772E-04	0.7
56	P7	925	23 (906,929)	2.5	1.580E-02	6.781E-04	1.1
57	P7	934	23 (915,938)	2.4	1.560E-02	6.842E-04	1.1
58	P7	944	22 (924,947)	2.4	1.503E-02	6.710E-04	0.7
59	P7	953	22 (934,956)	2.3	1.495E-02	6.858E-04	0.4
60	P8	1020	28 (999,1028)	2.8	1.282E-02	4.546E-04	0.7
61	P8	1029	28 (1008,1036)	2.7	1.342E-02	4.776E-04	0.6
62	P8	1038	28 (1016,1044)	2.7	1.325E-02	4.749E-04	0.8
63	P8	1047	28 (1025,1053)	2.7	1.300E-02	4.676E-04	1.2
64	P8	1056	28 (1034,1061)	2.6	1.320E-02	4.783E-04	0.4
65	P8	1065	27 (1042,1070)	2.6	1.319E-02	4.814E-04	0.8
66	P8	1074	27 (1051,1078)	2.5	1.340E-02	4.926E-04	1.1
67	P8	1083	27 (1059,1086)	2.5	1.298E-02	4.790E-04	0.8
68	P8	1092	27 (1068,1095)	2.5	1.290E-02	4.796E-04	0.5
69	P8	1101	27 (1076,1103)	2.4	1.290E-02	4.813E-04	1.3

Probe B (HIGH)

Table 15: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (HIGH-B): 31490, for times between 2012/09/01 and 2013/08/03.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0 \Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]
0	P0	970	108 (884,992)	11.1	2.960E-01	2.741E-03	2.4
1	P0	992	90 (926,1016)	9.1	3.120E-01	3.467E-03	3.1
2	P0	1039	91 (948,1039)	8.8	3.750E-01	4.121E-03	1.9
3	P0	1064	96 (992,1088)	9.0	3.620E-01	3.771E-03	2.2
4	P0	1114	75 (1039,1114)	6.7	4.020E-01	5.360E-03	1.9
5	P0	1140	103 (1064,1167)	9.0	3.790E-01	3.680E-03	1.3
6	P0	1194	108 (1114,1222)	9.0	3.860E-01	3.574E-03	2.2
7	P0	1222	110 (1140,1250)	9.0	3.353E-01	3.048E-03	0.9
8	P0	1250	85 (1194,1279)	6.8	2.860E-01	3.365E-03	2.3
9	P1	1579	139 (1440,1579)	8.8	3.240E-01	2.331E-03	1.4
10	P1	1611	108 (1504,1612)	6.7	3.630E-01	3.361E-03	1.4
11	P1	1642	111 (1539,1650)	6.8	3.980E-01	3.586E-03	1.9
12	P1	1674	113 (1575,1688)	6.8	4.150E-01	3.673E-03	2.2
13	P1	1706	116 (1612,1728)	6.8	3.610E-01	3.112E-03	2.1
14	P1	1737	118 (1650,1768)	6.8	3.520E-01	2.983E-03	1.8
15	P1	1769	121 (1688,1809)	6.8	3.230E-01	2.669E-03	1.3
16	P1	1800	124 (1728,1852)	6.9	2.910E-01	2.347E-03	1.2
17	P2	2404	214 (2194,2408)	8.9	8.510E-02	3.969E-04	2.5
18	P2	2442	213 (2236,2448)	8.7	9.000E-02	4.225E-04	1.7
19	P2	2480	212 (2277,2489)	8.5	9.970E-02	4.707E-04	2.6
20	P2	2517	210 (2318,2529)	8.4	9.300E-02	4.418E-04	1.7
21	P2	2555	209 (2360,2569)	8.2	1.000E-01	4.782E-04	1.9
22	P2	2593	208 (2401,2609)	8.0	9.790E-02	4.709E-04	2.3
23	P2	2630	207 (2443,2649)	7.9	9.410E-02	4.555E-04	1.6
24	P2	2668	205 (2484,2690)	7.7	1.120E-01	5.455E-04	1.9
25	P2	2706	204 (2526,2730)	7.5	8.850E-02	4.338E-04	2.0
26	P2	2744	203 (2567,2770)	7.4	8.810E-02	4.344E-04	2.0
27	P2	2782	202 (2609,2810)	7.2	9.130E-02	4.531E-04	2.0
28	P2	2819	200 (2650,2850)	7.1	8.530E-02	4.263E-04	2.5
29	P2	2857	199 (2692,2890)	7.0	8.680E-02	4.364E-04	1.7
30	P2	2895	198 (2733,2931)	6.8	7.460E-02	3.775E-04	2.9
31	P2	2933	196 (2774,2971)	6.7	8.170E-02	4.162E-04	1.7
32	P3	3717	460 (3393,3853)	12.4	7.090E-02	1.542E-04	5.1
33	P3	3756	449 (3437,3886)	12.0	8.440E-02	1.879E-04	5.0
34	P3	3795	438 (3480,3918)	11.6	8.360E-02	1.907E-04	4.4
35	P3	3834	427 (3524,3951)	11.1	7.580E-02	1.774E-04	5.0
36	P3	3873	417 (3567,3984)	10.8	8.790E-02	2.110E-04	5.2
37	P3	3912	406 (3610,4016)	10.4	7.910E-02	1.949E-04	4.3
38	P3	3951	395 (3654,4049)	10.0	9.380E-02	2.375E-04	4.8
39	P3	3990	384 (3697,4081)	9.6	9.440E-02	2.458E-04	3.6
40	P3	4028	373 (3740,4114)	9.3	9.080E-02	2.432E-04	3.8
41	P3	4068	362 (3784,4146)	8.9	8.240E-02	2.273E-04	3.8
42	P3	4106	352 (3827,4179)	8.6	8.070E-02	2.295E-04	4.0
43	P3	4146	341 (3870,4211)	8.2	8.720E-02	2.559E-04	4.0
44	P3	4184	330 (3914,4244)	7.9	7.720E-02	2.339E-04	4.1
45	P3	4224	319 (3957,4276)	7.6	8.640E-02	2.708E-04	4.8
46	P3	4262	308 (4000,4309)	7.2	8.360E-02	2.712E-04	3.5
47	P3	4302	297 (4044,4341)	6.9	7.850E-02	2.639E-04	4.8
48	P3	4340	287 (4087,4374)	6.6	8.210E-02	2.865E-04	3.7
49	P3	4380	276 (4131,4406)	6.3	6.880E-02	2.495E-04	5.4
50	P3	4418	265 (4174,4439)	6.0	7.140E-02	2.694E-04	3.6

Table 16: Energy/Flux Calibration Factors for the Histogram Electron Channels. Histogram LUT ID (HIGH-B): 31490, for times between 2013/08/03 and 2019/07/16.

CH #	PIX	E [keV]	ΔE (E_{lo},E_{hi}) [keV]	$\Delta E/E$ [%]	$G_0 \Delta E$ [cm^2 sr keV]	G_0 [cm^2 sr]	$\Delta G_0/G_0$ [%]

0	P0	970	108 (884,992)	11.1	2.970E-01	2.750E-03	2.4
1	P0	992	90 (926,1016)	9.1	3.130E-01	3.478E-03	3.1
2	P0	1039	91 (948,1039)	8.8	3.770E-01	4.143E-03	1.9
3	P0	1064	96 (992,1088)	9.0	3.640E-01	3.792E-03	2.2
4	P0	1114	75 (1039,1114)	6.7	4.040E-01	5.387E-03	1.9
5	P0	1140	103 (1064,1167)	9.0	3.820E-01	3.709E-03	1.3
6	P0	1194	108 (1114,1222)	9.0	3.890E-01	3.602E-03	2.2
7	P0	1222	110 (1140,1250)	9.0	3.389E-01	3.081E-03	0.9
8	P0	1250	85 (1194,1279)	6.8	2.880E-01	3.388E-03	2.2
9	P1	1579	139 (1440,1579)	8.8	3.240E-01	2.331E-03	1.4
10	P1	1611	108 (1504,1612)	6.7	3.630E-01	3.361E-03	1.4
11	P1	1642	111 (1539,1650)	6.8	3.980E-01	3.586E-03	1.9
12	P1	1674	113 (1575,1688)	6.8	4.150E-01	3.673E-03	2.2
13	P1	1706	116 (1612,1728)	6.8	3.610E-01	3.112E-03	2.1
14	P1	1737	118 (1650,1768)	6.8	3.520E-01	2.983E-03	1.8
15	P1	1769	121 (1688,1809)	6.8	3.230E-01	2.669E-03	1.3
16	P1	1800	124 (1728,1852)	6.9	2.910E-01	2.347E-03	1.2
17	P2	2267	165 (2103,2267)	7.3	2.560E-01	1.554E-03	1.6
18	P2	2308	164 (2144,2308)	7.1	3.060E-01	1.872E-03	1.6
19	P2	2348	162 (2186,2348)	6.9	2.930E-01	1.805E-03	2.1
20	P2	2389	161 (2228,2389)	6.7	3.240E-01	2.010E-03	1.2
21	P2	2429	160 (2269,2429)	6.6	3.580E-01	2.236E-03	1.5
22	P2	2470	159 (2312,2470)	6.4	3.310E-01	2.083E-03	2.3
23	P2	2510	158 (2354,2512)	6.3	3.640E-01	2.308E-03	1.1
24	P2	2550	157 (2397,2553)	6.1	3.570E-01	2.280E-03	1.3
25	P2	2591	155 (2439,2595)	6.0	3.380E-01	2.175E-03	2.4
26	P2	2631	154 (2482,2636)	5.9	3.420E-01	2.216E-03	1.2
27	P2	2672	153 (2524,2677)	5.7	3.530E-01	2.307E-03	1.3
28	P2	2712	152 (2567,2719)	5.6	3.560E-01	2.344E-03	2.4
29	P2	2752	151 (2610,2760)	5.5	3.040E-01	2.017E-03	1.6
30	P2	2793	150 (2652,2802)	5.4	3.140E-01	2.099E-03	1.3
31	P2	2833	148 (2695,2843)	5.2	2.790E-01	1.880E-03	2.4
32	P2	2874	147 (2737,2884)	5.1	2.760E-01	1.875E-03	1.2
33	P2	2914	146 (2780,2926)	5.0	2.750E-01	1.882E-03	2.0
34	P3	3572	250 (3348,3597)	7.0	2.750E-01	1.102E-03	3.4
35	P3	3616	248 (3390,3639)	6.9	2.890E-01	1.163E-03	3.3
36	P3	3659	247 (3433,3680)	6.8	3.450E-01	1.395E-03	3.9
37	P3	3702	246 (3476,3722)	6.6	3.240E-01	1.317E-03	2.8
38	P3	3745	245 (3518,3763)	6.5	3.110E-01	1.270E-03	4.3
39	P3	3788	244 (3561,3804)	6.4	3.700E-01	1.518E-03	2.6
40	P3	3832	242 (3604,3846)	6.3	3.290E-01	1.357E-03	4.2
41	P3	3875	241 (3646,3888)	6.2	3.910E-01	1.620E-03	2.7
42	P3	3918	240 (3689,3929)	6.1	3.510E-01	1.462E-03	3.6
43	P3	3962	239 (3731,3970)	6.0	3.770E-01	1.577E-03	2.9
44	P3	4005	238 (3774,4012)	5.9	3.230E-01	1.358E-03	3.7
45	P3	4048	237 (3817,4053)	5.8	3.770E-01	1.593E-03	3.2
46	P3	4091	235 (3859,4095)	5.8	3.420E-01	1.453E-03	2.9
47	P3	4134	234 (3902,4136)	5.7	3.500E-01	1.494E-03	2.9
48	P3	4178	233 (3945,4178)	5.6	3.100E-01	1.330E-03	3.4
49	P3	4221	232 (3989,4221)	5.5	3.340E-01	1.441E-03	3.8
50	P3	4264	231 (4034,4264)	5.4	3.030E-01	1.314E-03	2.4
51	P3	4308	230 (4078,4308)	5.3	3.160E-01	1.377E-03	4.6