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TABLES OF K-MESON SCATTERING BY PROTONS

James A. Baker and Kent Curtis

January 31, 1956

Printed for the U. S. Atomic Energy Commission

TABLES OF K-MESON SCATTERING BY PROTONS

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The following tables are intended to facilitate the reduction of data obtained in K-meson proton scattering experiments. They have to do with the conversion of the observable quantities in the laboratory system to the center-of-mass system.

The tables are for the elastic scattering of K mesons by protons at rest. They cover the range of incident K-meson energies from 10 Mev to 200 Mev at intervals of 10 Mev, and from 200 Mev to 6000 Mev at intervals of 50 Mev.

In each table the first three items of the first row give the incident K-meson energy in Mev, the value of $\lambda\!\!\!^{-2}$ in millibarns, and the K-meson momentum in the center-of-mass system in units of μc, in that order. In the columns below the following information is provided (angles are measured counterclockwise from the direction of the incident K meson):

Column 1: The angle of the scattered K meson in the laboratory system, in degrees.

Column 2: The energy of the scattered K meson, in Mev.

Column 3: The cosine of the angle of the scattered K meson in the center-of-mass system.

Column 4: The angle of the scattered K meson in the center-of-mass system, in degrees.

Column 5: The angle of the scattered proton in the laboratory system, in degrees.

Column 6: The ratio, $d \cos \chi / d \cos \theta_K$, of the solid angle in the center-of-mass system to the solid angle in the laboratory system for the scattered K meson.

The mass of the K meson was assumed to be 966 electron masses. The following constants were used in constructing these tables:

Mass of K meson $\mu c^2 = 493.46$ Mev

Mass of proton $Mc^2 = 938.22$ Mev

$(\hbar/\mu c)^2 = 1.595 \times 10^{-27}$ cm^2.

These tables were prepared at the suggestion of Dr. Lynn Stevenson and are similar to tables on pion scattering prepared by James A. Baker and John Killeen.[1]

The computations were performed on an IBM model 650 data-processing machine at the University of California Radiation Laboratory at Livermore. The computational code may be applied without modification to the elastic scattering of any two particles for which the energy of the incident particle is in the interval $0 < E < 10^4$ Mev. The machine time required is about 20 seconds for each value of the incident energy.

We wish to thank Mr. Gordon Bjork and Mr. Paul Runedrich and their assistants in the tabulating office for a beautiful job of printing the results.

This work was done under the auspices of the United States Atomic Energy Commission.

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[1] James A. Baker and John Killeen, Pion-Proton Scattering Tables, UCRL-2843, Jan. 1955.

FORMULAS

Introduce

$$\gamma_L = \frac{E}{\mu c^2} + 1$$

incident K-meson energy including rest energy in units of K-meson rest energy

$$\eta_L = \sqrt{\gamma_L^2 - 1}$$

incident K-meson mementum in units of μc

$$U = \gamma_L + \frac{Mc^2}{\mu c^2}$$

$$B = \eta_L$$

$$N = \sqrt{U^2 - B^2}$$

$$\gamma_o = \frac{U}{N}$$

$$\eta_o = \frac{B}{N}$$

Then

$$\eta_B = \gamma_o \eta_L - \eta_o \gamma_L$$

Baricentric system momentum (K-meson or proton) in units of μc

$$\lambda\!\!\!^{-2} = \frac{1}{\eta_B^2} \left(\frac{\hbar}{\mu c}\right)^2$$

$$\tan \theta_K = \frac{\sin \chi}{\gamma_o \cos \chi + \frac{\eta_o \gamma_B}{\eta_B}}$$

tangent of laboratory system angle of scattered K-meson

$$\tan \theta_P = \frac{1}{\gamma_o} \left\{\frac{\sin \chi}{\cos \chi - 1}\right\}$$

tangent of laboratory system angle of scattered proton

$$E_K = \left\{ \gamma_o \gamma_B + \eta_o \eta_B \cos \chi - 1 \right\} \mu c^2$$

$$\frac{d\Omega_B}{d\Omega_L} = \left\{ \frac{\gamma_o \cos \chi + \frac{\eta_o \gamma_B}{\eta_B}}{\cos \theta_K} \right\}^3 \frac{1}{\gamma_o + \frac{\eta_o \gamma_B}{\eta_B} \cos \chi}$$

$$= \frac{\sin^3 \chi}{\sin^3 \theta_K} \frac{1}{\gamma_o + \frac{\eta_o \gamma_B}{\eta_B} \cos \chi}$$

E	λ^2	η_B	γ_L	η_L	γ_0
10.000000	91.550886	.131991	1.020264	.202331	1.002406

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	10.000000	1.000000		90.000000-	2.349816
15.000000	9.640269	.921016	22.924901	78.510631-	2.286432
30.000000	8.648904	.701754	45.432001	67.234821-	2.104227
45.000000	7.237603	.389557	67.073018	56.400017-	1.827580
60.000000	5.684679	.046117	87.356698	46.252763-	1.494531
75.000000	4.246732	.272007-	105.783823	37.041836-	1.152267
90.000000	3.083642	.529231-	121.953552	28.964850-	.846441
105.000000	2.239823	.715871-	135.714680	22.094627-	.606648
120.000000	1.674315	.840919-	147.237377	16.344079-	.438514
135.000000	1.316556	.920062-	156.935261	11.505393-	.330688
150.000000	1.102887	.967324-	165.312763	7.326182-	.266523
165.000000	.990377	.992237-	172.856211	3.563339-	.233034
180.000000	.955342	1.000000-	180.000000		.222690

E	λ^2	η_B	γ_L	η_L	γ_0
20.000000	45.729506	.186755	1.040529	.287576	1.004812

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	20.000000	1.000000		90.000000-	2.371156
15.000000	19.277577	.920327	23.025970	78.433052-	2.305543
30.000000	17.278070	.699451	45.616951	67.092957-	2.117611
45.000000	14.433198	.385715	67.311769	56.217015-	1.834000
60.000000	11.323467	.041603	87.615560	46.054691-	1.495128
75.000000	8.447078	.275191-	106.033060	36.851385-	1.149419
90.000000	6.127314	.532481-	122.173338	28.797030-	.842386
105.000000	4.447077	.718070-	135.805448	21.955716-	.602727
120.000000	3.323465	.842240-	147.377523	16.237222-	.435283
135.000000	2.612386	.920753-	157.036503	11.428216-	.327950
150.000000	2.188502	.967613-	165.378138	7.276277-	.264194
165.000000	1.964964	.992009-	172.887852	3.539217-	.231040
180.000000	1.895386	1.000000-	180.000000		.220681

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
30.000000	30.457519	.228835	1.060794	.353953	1.007216

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	30.000000	1.000000		90.000000-	2.392469
15.000000	28.906004	.919640	23.126467	78.355646-	2.324585
30.000000	25.882070	.697159	45.800470	66.951665-	2.130887
45.000000	21.597341	.381900	67.548458	56.034986-	1.840309
60.000000	16.911922	.037136	87.871730	45.858167-	1.495655
75.000000	12.598079	.280318-	106.279260	36.662882-	1.146531
90.000000	9.127562	.535679-	122.390031	28.631388-	.838372
105.000000	6.619296	.720231-	136.073638	21.820639-	.598358
120.000000	4.943500	.843535-	147.515376	16.132027-	.432015
135.000000	3.885024	.921432-	157.136426	11.352070-	.325257
150.000000	3.253393	.967897-	165.442767	7.227003-	.261925
165.000000	2.920800	.992374-	172.919580	3.514866-	.228878
180.000000	2.817173	1.000000-	180.000000		.218716

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
40.000000	22.821893	.264358	1.081059	.410716	1.009620

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	40.000000	1.000000		90.000000-	2.413787
15.000000	38.529002	.918953	23.226448	78.278124-	2.343875
30.000000	34.464357	.694873	45.982842	66.810603-	2.144071
45.000000	28.718982	.378105	67.783600	55.853759-	1.846522
60.000000	22.454484	.032707	88.125607	45.662903-	1.4[illegible]
75.000000	16.703187	.284399-	106.522996	36.475925-	1.14[illegible]
90.000000	12.088333	.538833-	122.604317	28.467350-	.83[illegible]
105.000000	8.759933	.722357-	136.249479	21.686223-	.59[illegible]
120.000000	6.538862	.844809-	147.651568	16.028036-	.42[illegible]
135.000000	5.136937	.922098-	157.234803	11.276898-	.32[illegible]
[illegible]	4.301012	.963176-	165.505538	7.178416-	.25[illegible]
[illegible]	3.860844	.992441-	172.980806	3.491089-	.22[illegible]
[illegible]	3.723562	1.000000-	180.000000		.21[illegible]

E	λ^2	η_B	γ_L	η_L	γ_0
50.000000	18.241279	.295693	1.101324	.461426	1.012021

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_E/d\Omega_L$
	50.000000	1.000000		90.000000-	2.435118
15.000000	48.143611	.918266	23.326086	78.200660-	2.362608
30.000000	43.922465	.692590	46.164470	66.669770-	2.157214
45.000000	35.800158	.374328	68.017138	55.673163-	1.852640
60.000000	27.948194	.028310	88.377709	45.468785-	1.496523
75.000000	20.760924	.288439-	106.764612	36.290459-	1.140814
90.000000	15.008146	.541950-	122.816598	28.304974-	.830427
105.000000	10.866521	.724457-	136.423773	21.553125-	.591264
120.000000	8.107083	.846065-	147.786271	15.925247-	.425616
135.000000	6.366643	.922755-	157.332263	11.202642-	.320001
150.000000	5.329880	.968450-	165.569448	7.130459-	.257490
165.000000	4.784111	.992506-	172.981231	3.467769-	.224930
180.000000	4.613867	1.000000-	180.000000		.214884

E	λ^2	η_B	γ_L	η_L	γ_0
60.000000	15.187574	.324059	1.121589	.507898	1.014421

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_E/d\Omega_L$
	60.000000	1.000000		90.000000-	2.456432
15.000000	57.752299	.917580	23.425150	78.123311-	2.381585
30.000000	51.557873	.690315	46.344894	66.529281-	2.170259
45.000000	42.843338	.370575	68.248842	55.493541-	1.858674
60.000000	33.396506	.023956	88.627232	45.276156-	1.490005
75.000000	24.773755	.292429-	107.003536	36.106769-	1.137882
90.000000	17.889469	.545020-	123.026129	28.144374-	.821503
105.000000	12.942515	.726520-	136.595488	21.421860-	.587[illegible]
120.000000	9.650632	.847299-	147.919140	15.823891-	.42[illegible]
135.000000	7.576612	.923400-	157.428348	11.129361-	.3[illegible]
[illegible]	6.341477	.968720-	165.631614	7.083133-	.2[illegible]
[illegible]	5.691094	.992571-	173.011769	3.444564-	.2[illegible]
18[illegible]	5.402775	1.000000-	180.000000		.21[illegible]

E	λ^2	η_B	γ_L	η_L	γ_0
70.000000	13.006703	.350175	1.141854	.551207	1.016819

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_C/d\Omega_L$
	70.000000	1.000000		90.000000-	2.477148
15.000000	67.353091	.916894	23.523813	78.045962-	2.400533
30.000000	60.070089	.688048	46.524116	66.389135-	2.103208
45.000000	49.847535	.366842	68.478942	55.314549-	1.86[illegible]001
60.000000	38.797938	.019638	88.874692	45.084731-	1.467147
75.000000	28.741187	.296375-	107.240110	35.924740-	1.135039
90.000000	20.731809	.548050-	123.233425	27.985493-	.822609
105.000000	14.986927	.728554-	136.765370	21.291971-	.583330
120.000000	11.169507	.848513-	148.050404	15.723680-	.419400
135.000000	8.765855	.924034-	157.523173	11.057168-	.314011
150.000000	7.335309	.968985-	165.692864	7.036380-	.253187
165.000000	6.582780	.992636-	173.042422	3.421360-	.221074
180.000000	6.348385	1.000000-	180.000000		.211187

E	λ^2	η_B	γ_L	η_L	γ_0
80.000000	11.371082	.374514	1.162119	.592047	1.019213

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_C/d\Omega_L$
	80.000000	1.000000		90.000000-	2.490057
15.000000	76.947962	.916210	23.621846	77.968670-	2.419465
30.000000	68.560099	.685787	46.702420	66.249334-	2.196085
45.000000	56.814722	.363132	68.707323	55.136531-	1.870438
60.000000	44.154466	.015359	89.119918	44.894795-	1.497369
75.000000	32.665195	.300273-	107.474106	35.744373-	1.132141
90.000000	23.537139	.551036-	123.438257	27.828273-	.818149
105.000000	17.002225	.730555-	136.933018	21.163743-	.581220
120.000000	12.564696	.849707-	148.179835	15.624902-	.416362
135.000000	9.935852	.924656-	157.616565	10.995002-	.312436
150.000000	8.312857	.969245-	165.753311	6.990371-	.251090
165.000000	7.459166	.992697-	173.071299	3.399186-	.219265
180.000000	7.198192	1.000000-	180.000000		.219388

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
90.000000	10.099212	.397397	1.182384	.630895	1.021000

θ_k	E_k	Cos χ	χ	θ_p	$d\Omega_B/d\Omega_L$
	90.000000	1.000000		90.000000-	2.520378
15.000000	86.534938	.915525	23.719536	77.891378-	2.430[illegible]
30.000000	77.026423	.683530	46.879808	66.109704-	2.208000
45.000000	63.742431	.359438	68.934214	54.959143-	1.873100
60.000000	49.465595	.011112	89.363254	44.705891-	1.497[illegible]
75.000000	36.545285	.304134-	107.706154	35.565381-	1.129200
90.000000	26.304473	.553988-	123.641084	27.672601-	.814916
105.000000	18.986435	.732530-	137.099003	21.036833-	.570326
120.000000	14.135706	.850884-	148.308006	15.527156-	.413[illegible]
135.000000	11.086605	.925270-	157.709155	10.915361-	.309[illegible]
150.000000	9.273627	.969502-	165.813357	6.944764-	.249031
165.000000	8.320259	.992760-	173.101322	3.376554-	.217440
180.000000	8.023688	1.000000-	180.000000		.207616

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
100.000000	9.081843	.419065	1.202649	.668104	1.024002

θ'_k	E_k	Cos χ	χ	θ_p	$d\Omega_B/d\Omega_L$
	100.000000	1.000000		90.000000-	2.541700
15.000000	96.116485	.914841	23.816767	77.814258-	2.457289
30.000000	85.471034	.681279	47.056221	65.970418-	2.221[illegible]
45.000000	70.634612	.355764	69.159616	54.782396-	1.8[illegible]
60.000000	54.733300	.006899	89.604698	44.518133-	1.497[illegible]
75.000000	40.383431	.307953-	107.936024	35.367936-	1.1[illegible]
90.000000	29.036771	.556902-	123.841906	27.518418-	.811[illegible]
105.000000	20.943011	.734477-	137.263156	20.911355-	.57[illegible]
120.000000	15.584509	.852043-	148.434630	15.430555-	.41[illegible]
135.000000	12.219100	.923875-	157.800771	10.[illegible]-	.3[illegible]
150.000000	10.219593	.969754-	165.372257	6.[illegible]-	.2[illegible]
165.000000	9.113026	.992820-	173.129913	3.[illegible]-	.21[illegible]
180.000000	8.842851	1.000000-	180.000000		.20[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
110.000000	8.249538	.439697	1.222914	.703930	1.026392

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	110.000000	1.000000		90.000000-	2.563012
15.000000	105.690630	.914158	23.913596	77.737138-	2.476059
30.000000	93.892453	.679035	47.231561	65.831418-	2.234296
45.000000	77.488796	.352113	69.383298	54.606545-	1.887415
60.000000	59.957086	.002724	89.843851	44.331807-	1.497711
75.000000	44.179633	.311726-	108.163374	35.212152-	1.123421
90.000000	31.733046	.559775-	124.040321	27.365954-	.807336
105.000000	22.870966	.736393-	137.425131	20.787367-	.569566
120.000000	17.011107	.853182-	148.559535	15.335272-	.407498
135.000000	13.333830	.926468-	157.890783	10.777049-	.305203
150.000000	11.149275	.970002-	165.930641	6.855497-	.245011
165.000000	10.000989	.992880-	173.158676	3.332895-	.213815
180.000000	9.643723	1.000000-	180.000000		.204162

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
120.000000	7.556084	.459431	1.243179	.738575	1.028780

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	120.000000	1.000000		90.000000-	2.584326
15.000000	115.257867	.913474	24.010083	77.659903-	2.494926
30.000000	102.292159	.676798	47.406012	65.692820-	2.246068
45.000000	84.305971	.348479	69.605606	54.431506-	1.892904
60.000000	65.138435	.001416-	90.081227	44.146684-	1.497715
75.000000	47.934383	.315460-	108.388661	35.037859-	1.120506
90.000000	34.394779	.562612-	124.236731	27.215037-	.803593
105.000000	24.771287	.738283-	137.585387	20.664734-	.565098
120.000000	18.415500	.854305-	148.683064	15.241078-	.404629
135.000000	14.430302	.927052-	157.979935	10.709268-	.302876
150.000000	12.063660	.970245-	165.907994	6.811037-	.243052
165.000000	10.820629	.992933-	173.148579	3.311581-	.212017
180.000000	10.433755	1.000000-	180.000000		.202478

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
130.000000	6.969411	.478377	1.263444	.772198	1.031166

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	130.000000	1.000000		90.000000-	2.605648
15.000000	124.818689	.912792	24.105881	77.502958-	2.513706
30.000000	110.669166	.674565	47.579561	65.554093-	2.250388
45.000000	91.087123	.344865	69.826367	54.257212-	1.809303
60.000000	70.276852	.005524-	90.316598	43.932708-	1.497674
75.000000	51.649164	.319156-	108.612000	34.834007-	1.117591
90.000000	37.022956	.565414-	124.431193	27.065609-	.791677
105.000000	26.644962	.740147-	137.744039	20.543400-	.532570
120.000000	19.798673	.855412-	148.805333	15.147858-	.401793
135.000000	15.509503	.927628-	158.068056	10.642232-	.300572
150.000000	12.964227	.970485-	166.045003	6.768579-	.241118
165.000000	11.626946	.992995-	173.214367	3.290439-	.210331
180.000000	11.210958	1.000000-	180.000000		.200820

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
140.000000	6.466647	.496625	1.283709	.804927	1.033550

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	140.000000	1.000000		90.000000-	2.628916
15.000000	134.371616	.912110	24.201336	77.505092-	2.532458
30.000000	119.023968	.672339	47.752021	65.416310-	2.271017
45.000000	97.831758	.341270	70.045538	54.083606-	1.903317
60.000000	75.372339	.009599-	90.550078	43.779934-	1.497502
75.000000	55.323480	.322810-	108.833047	34.693368-	1.111170
90.000000	39.617085	.568179-	124.623478	26.917672-	.791102
105.000000	28.491496	.741934-	137.900801	20.433339-	.550[illegible]
120.000000	21.161121	.856501-	148.925998	15.055998-	.361[illegible]
135.000000	16.571926	.928194-	158.155145	10.579008-	.291[illegible]
150.000000	13.949498	.970721-	166.101153	6.723094-	.252[illegible]
165.000000	12.419939	.993052-	173.242041	3.200526-	.2[illegible]
180.000000	11.975330	1.000000-	180.000000		.19[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
150.000000	6.030992	.514249	1.303974	.836367	1.035932

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	150.000000	1.000000		90.000000-	2.648000
15.000000	143.919115	.911428	24.296504	77.428836-	2.551111
30.000000	127.356563	.670118	47.923737	65.278514-	2.204181
45.000000	104.540371	.337694	70.263476	53.910745-	1.903149
60.000000	80.426868	.013640-	90.781611	43.593421-	1.497443
75.000000	58.958813	.326427-	109.052146	34.523586-	1.111701
90.000000	42.178645	.570911-	124.813871	26.771166-	.792033
105.000000	30.312370	.743795-	138.055736	20.304936-	.555031
120.000000	22.503337	.857574-	149.045403	14.934970-	.3[illegible]
135.000000	17.618065	.928752-	158.241204	10.510624-	.283073
150.000000	14.721445	.970954-	166.156787	6.683667-	.237041
165.000000	13.201089	.993108-	173.269314	3.248842-	.207020
180.000000	12.727859	1.000000-	180.000000		.197536

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
160.000000	5.649871	.531311	1.324239	.868105	1.038311

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	160.000000	1.000000		90.000000-	2.[illegible]
15.000000	153.458718	.910747	24.391100	77.351881-	2.[illegible]
30.000000	135.666450	.667904	48.094421	65.141119-	2.[illegible]
45.000000	111.213455	.334139	70.479765	53.783743-	1.[illegible]
60.000000	85.440439	.017646-	91.011193	43.418169-	1.[illegible]
75.000000	62.538656	.330001-	109.233694	34.335294-	1.[illegible]
90.000000	44.703130	.573604-	125.032031	26.583380-	.[illegible]
105.000000	32.103077	.745579-	139.208037	20.107717-	.[illegible]
120.000000	23.[illegible]321	.850000-	149.[illegible]	14.[illegible]107-	.[illegible]
135.000000	19.[illegible]427	.910000-	158.[illegible]	10.[illegible]-	.[illegible]
150.000000	15.[illegible]031	.971100-	166.[illegible]	[illegible]-	.[illegible]
165.000000	13.[illegible]	.993[illegible]	173.[illegible]	3.[illegible]-	.[illegible]
180.000000	12.[illegible]	1.000000-	180.[illegible]		.[illegible]

E	λ^2	η_B	γ_L	η_L	γ_0
170.000000	5.313667	.547862	1.344504	.898716	1.040688

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	170.000000	1.000000		90.000000-	2.690925
15.000000	162.992893	.910065	24.485580	77.274933-	2.588605
30.000000	143.955631	.665695	48.264246	65.003895-	2.308668
45.000000	117.851503	.330600	70.694741	53.567371-	1.919061
60.000000	90.413547	.021623-	91.239060	43.239005-	1.497021
75.000000	66.114502	.333542-	109.483984	34.188277-	1.105906
90.000000	47.206034	.576268-	125.188529	26.482797-	.785308
105.000000	33.879111	.747342-	138.360771	20.071743-	.549350
120.000000	25.128554	.859672-	149.279800	14.786321-	.390854
135.000000	19.662478	.929841-	158.410169	10.382224-	.291715
150.000000	16.424381	.971407-	166.265707	6.601046-	.233702
165.000000	14.725392	.993216-	173.322370	3.208506-	.203758
180.000000	14.196895	1.000000-	180.000000		.194456

E	λ^2	η_B	γ_L	η_L	γ_0
180.000000	5.014850	.563948	1.364769	.928759	1.043062

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	180.000000	1.000000		90.000000-	2.712236
15.000000	172.518679	.909386	24.579316	77.198156-	2.607216
30.000000	152.222102	.663493	48.433154	64.867130-	2.320811
45.000000	124.453528	.327082	70.908168	53.396802-	1.924050
60.000000	95.346191	.025565-	91.464977	43.061101-	1.496742
75.000000	69.635846	.337042-	109.696896	34.022749-	1.102984
90.000000	49.672356	.578896-	125.373078	26.340703-	.781736
105.000000	35.624979	.749077-	138.510542	19.957151-	.546120
120.000000	26.411554	.860698-	149.395136	14.698602-	.388206
135.000000	20.660751	.930373-	158.493076	10.319199-	.289583
150.000000	17.255371	.971629-	166.319278	6.560424-	.231918
165.000000	15.469039	.993270-	173.349012	3.188510-	.202081
180.000000	14.912908	1.000000-	180.000000		.192929

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
190.000000	4.747597	.579604	1.385034	.958289	1.045433

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	190.000000	1.000000		90.000000-	2.733556
15.000000	182.037557	.908706	24.672823	77.121437-	2.625897
30.000000	160.465875	.661296	48.601145	64.730537-	2.332869
45.000000	131.020517	.323581	71.120277	53.227034-	1.928958
60.000000	100.238371	.029477-	91.689233	42.884287-	1.496421
75.000000	73.119192	.340509-	109.907973	33.858597-	1.100064
90.000000	52.107590	.581494-	125.555852	26.200042-	.778194
105.000000	37.347161	.750792-	138.659110	19.843648-	.542921
120.000000	27.675803	.861710-	149.509212	14.611798-	.385597
135.000000	21.643233	.930898-	158.575295	10.256861-	.287473
150.000000	18.073037	.971847-	166.372277	6.520374-	.230146
165.000000	16.200843	.993322-	173.374738	3.168972-	.200522
180.000000	15.618558	1.000000-	180.000000		.191422

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
200.000000	4.507083	.594868	1.405299	.987352	1.047802

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	200.000000	1.000000		90.000000-	2.754872
15.000000	191.550513	.908027	24.765814	77.044661-	2.644447
30.000000	168.688922	.659104	48.768277	64.594288-	2.344873
45.000000	137.553951	.320100	71.330954	53.058012-	1.933784
60.000000	105.092061	.033358-	91.911713	42.708732-	1.496055
75.000000	76.567503	.343938-	110.117046	33.695820-	1.097142
90.000000	54.514696	.584059-	125.736620	26.060756-	.774679
105.000000	39.046150	.752481-	138.805845	19.731463-	.539760
120.000000	28.922781	.862706-	149.621856	14.526084-	.383024
135.000000	22.612392	.931414-	158.656426	10.195325-	.285407
150.000000	18.879354	.972052-	166.424645	6.480725-	.228420
165.000000	16.922284	.993374-	173.400521	3.149491-	.199055
180.000000	16.313352	1.000000-	180.000000		.189941

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
250.000000	3.593762	.666183	1.506624	1.126905	1.059607

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	250.000000	1.000000		90.000000-	2.861456
15.000000	239.013641	.904638	25.225383	76.661581-	2.736970
30.000000	209.480447	.648235	49.591273	63.917739-	2.403780
45.000000	169.710881	.302963	72.364283	52.223900-	1.956789
60.000000	128.791550	.052301-	92.998041	41.848035-	1.493623
75.000000	93.285001	.360562-	111.134791	32.902273-	1.082570
90.000000	66.117463	.596425-	126.614391	25.384608-	.757514
105.000000	47.207514	.760597-	139.516943	19.188299-	.524479
120.000000	34.896630	.867481-	150.167311	14.111664-	.370651
135.000000	27.247972	.933884-	159.048673	9.898361-	.275483
150.000000	22.732303	.973088-	166.677492	6.289586-	.220155
165.000000	20.367634	.993620-	173.524337	3.056042-	.191634
180.000000	19.632376	1.000000-	180.000000		.182867

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
300.000000	2.985667	.730882	1.607949	1.259165	1.071341

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	300.000000	1.000000		90.000000-	2.968039
15.000000	286.308498	.901262	25.675499	76.279819-	2.828916
30.000000	249.740513	.637507	50.393701	63.248926-	2.460967
45.000000	201.043731	.286266	73.365412	51.408294-	1.977983
60.000000	151.579122	.070517-	94.043746	41.015184-	1.490272
75.000000	109.175951	.376364-	112.108761	32.141385-	1.068080
90.000000	77.050602	.608078-	127.450738	24.740489-	.741011
105.000000	54.851237	.768197-	140.192288	18.673210-	.510023
120.000000	40.468800	.871935-	150.684349	13.719875-	.359048
135.000000	31.561321	.936182-	159.420007	9.618013-	.266222
150.000000	26.312369	.974042-	166.916701	6.109391-	.212439
165.000000	23.566254	.993848-	173.641153	2.968035-	.184812
180.000000	22.713058	1.000000-	180.000000		.176300

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
350.000000	2.551897	.790563	1.709274	1.386224	1.083000

θ_K	E_K	Cos X	X	θ_P	$d\Omega_B/d\Omega_L$
	350.000000	1.000000		90.000000-	3.074625
15.000000	333.435578	.897896	26.117078	75.899261-	2.920169
30.000000	289.480470	.626918	51.176819	62.587904-	2.516478
45.000000	231.583587	.269990	74.336232	50.610737-	1.997493
60.000000	173.507083	.088047-	95.051349	40.209318-	1.486112
75.000000	124.300061	.391405-	113.042052	31.411265-	1.053710
90.000000	87.369381	.619077-	128.248868	24.126336-	.725142
105.000000	62.023211	.775331-	140.835147	18.184018-	.496320
120.000000	45.677783	.876100-	151.175545	13.348770-	.348142
135.000000	35.584022	.938327-	159.772548	9.352848-	.257555
150.000000	29.646196	.974931-	167.143707	5.939165-	.205261
165.000000	26.543309	.994061-	173.752489	2.884785-	.178368
180.000000	25.580071	1.000000-	180.000000		.170188

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
400.000000	2.227021	.846264	1.810599	1.509393	1.094582

θ_K	E_K	Cos X	X	θ_P	$d\Omega_B/d\Omega_L$
	400.000000	1.000000		90.000000-	3.181203
15.000000	380.396362	.894545	26.549890	75.520020-	3.010619
30.000000	328.709202	.616465	51.941432	61.934618-	2.570367
45.000000	261.360057	.254122	75.278347	49.831056-	2.015411
60.000000	194.623793	.104926-	96.022971	39.429408-	1.481232
75.000000	138.712105	.405735-	113.937242	30.710480-	1.039495
90.000000	97.125614	.620474-	129.011475	23.540257-	.709878
105.000000	68.768340	.782036-	141.447467	17.719178-	.483326
120.000000	50.559600	.880001-	151.642563	12.996974-	.337884
135.000000	39.346175	.940331-	160.197279	9.101950-	.249445
150.000000	32.760927	.975760-	167.[illegible]38910	5.776222-	.198563
165.000000	29.322485	.994259-	173.557455	2.806290-	.172559
180.000000	28.255128	1.000000-	180.000000		.164487

E	λ^2	η_B	γ_L	η_L	γ_0
450.000000	1.974709	.898703	1.911924	1.629556	1.106085

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	450.000000	1.000000		90.000000-	3.287799
15.000000	427.192330	.891203	26.975139	75.142097-	3.100524
30.000000	367.438056	.606145	52.688626	61.289238-	2.622678
45.000000	290.401764	.238643	76.193475	49.068736-	2.031846
60.000000	214.972676	.121195-	96.961132	38.674365-	1.475721
75.000000	152.460938	.419410-	114.797481	30.037312-	1.025455
90.000000	106.363219	.639321-	129.741309	22.980420-	.695190
105.000000	75.122154	.788356-	142.032227	17.276683-	.470976
120.000000	55.142873	.883666-	152.087866	12.662825-	.328204
135.000000	42.870972	.942210-	160.426121	8.863886-	.241827
150.000000	35.675312	.976537-	167.563972	5.625643-	.192275
165.000000	31.921549	.994444-	173.957264	2.731977-	.166953
180.000000	30.756485	1.000000-	180.000000		.159153

E	λ^2	η_B	γ_L	η_L	γ_0
500.000000	1.773154	.948407	2.013249	1.747332	1.117506

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	500.000000	1.000000		90.000000-	3.394375
15.000000	473.822001	.887874	27.392596	74.765320-	3.189800
30.000000	405.673942	.595957	53.419032	60.651708-	2.673452
45.000000	318.734859	.223545	77.082591	48.323719-	2.046877
60.000000	234.595677	.136879-	97.867322	37.943557-	1.469660
75.000000	165.591462	.432465-	115.624201	29.390557-	1.011616
90.000000	115.122165	.648656-	130.440432	22.445278-	.681052
105.000000	81.117714	.794317-	142.590919	16.[illegible]5157-	.459236
120.000000	59.454742	.887112-	152.512657	12.[illegible]45292-	.319064
135.000000	46.180520	.943973-	160.72[illegible]	3.[illegible]39026-	.234661
150.000000	38.408547	.977265-	167.759171	5.[illegible]81028-	.186378
165.000000	3[illegible].357769	.994019-	174.[illegible]33242	2.[illegible]31159-	.161768
180.000000	33.1[illegible]	[illegible]-	180.[illegible]		.1[illegible]4157

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
550.000000	1.608481	.995772	2.114574	1.863175	1.128846

θ_k	E_K	$\cos\chi$	χ	θ_p	$d\Omega_B/d\Omega_L$
	550.000000	1.000000		90.000000-	3.500959
15.000000	520.288829	.884556	27.803006	74.389975-	3.278422
30.000000	443.429196	.585897	54.133511	60.022085-	2.722738
45.000000	346.386976	.208810	77.947299	47.595604-	2.060607
60.000000	253.530299	.152014-	98.743719	37.235897-	1.463109
75.000000	178.144637	.444948-	116.420097	28.768612-	.997985
90.000000	123.439464	.657520-	131.111136	21.933340-	.667439
105.000000	86.785123	.799952-	143.125545	16.453228-	.448057
120.000000	63.518400	.890360-	152.918540	12.043057-	.310416
135.000000	49.294364	.945632-	161.019992	8.423281-	.227910
150.000000	40.977559	.977950-	167.945791	5.343404-	.180818
165.000000	36.645458	.994782-	174.144335	2.594123-	.156743
180.000000	35.302749	1.000000-	180.000000		.149464

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
600.000000	1.471465	1.041101	2.215899	1.977424	1.140103

θ_k	E_K	$\cos\chi$	χ	θ_p	$d\Omega_B/d\Omega_L$
	600.000000	1.000000		90.000000-	3.607549
15.000000	566.591828	.881251	28.206254	74.016063-	3.366427
30.000000	480.710234	.575962	54.832920	59.400311-	2.770599
45.000000	373.378349	.194423	78.788916	46.883933-	2.073102
60.000000	271.810591	.166630-	99.592040	36.550410-	1.456137
75.000000	190.155990	.456896-	117.187058	28.170329-	.984581
90.000000	131.346202	.665950-	131.755370	21.443060-	.654321
105.000000	92.148559	.805289-	143.638228	16.069346-	.437396
120.000000	67.353585	.893428-	153.307235	11.754974-	.302221
135.000000	52.227994	.947197-	161.297704	8.218735-	.221521
150.000000	43.395522	.978594-	168.123752	5.212712-	.175591
165.000000	38.798432	.994936-	174.231367	2.530353-	.152196
180.000000	37.373808	1.000000-	180.000000		.145047

E	λ^2	η_B	γ_L	η_L	γ_0
650.000000	1.355690	1.084645	2.317224	2.090341	1.151278

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	650.000000	1.000000		90.000000-	3.714134
15.000000	612.731985	.877954	28.603428	73.643354-	3.453761
30.000000	517.527911	.566152	55.517548	58.786444-	2.817046
45.000000	399.736610	.180377	79.608189	46.188477-	2.084444
60.000000	289.473562	.180749-	100.413490	35.886409-	1.448789
75.000000	201.661545	.468338-	117.926575	27.594507-	.971406
90.000000	138.874455	.673973-	132.374565	20.973234-	.641683
105.000000	97.234669	.810346-	144.129826	15.702653-	.427230
120.000000	70.981516	.896327-	153.679485	11.480183-	.294448
135.000000	54.998289	.948673-	161.563270	8.024044-	.215497
150.000000	45.676796	.979202-	168.294092	5.088151-	.170654
165.000000	40.828534	.995081-	174.314733	2.469620-	.147877
180.000000	39.326436	1.000000-	180.000000		.140885

E	λ^2	η_B	γ_L	η_L	γ_0
700.000000	1.256597	1.126600	2.418549	2.202130	1.162370

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	700.000000	1.000000		90.000000-	3.820719
15.000000	658.712754	.874673	28.993670	73.272307-	3.540446
30.000000	553.890122	.556463	56.188367	58.180426-	2.862144
45.000000	425.481991	.166656	80.406491	45.508777-	2.094709
60.000000	306.547340	.194398-	101.209614	35.242978-	1.441122
75.000000	212.693870	.479308-	118.640366	27.039998-	.958470
90.000000	146.048896	.681621-	132.970556	20.522718-	.629492
105.000000	102.063686	.815148-	144.602115	15.351888-	.417517
120.000000	74.416997	.899074-	154.036725	11.217768-	.287060
135.000000	57.619064	.950069-	161.817835	7.838177-	.209786
150.000000	47.832730	.979776-	168.457442	4.969434-	.165989
165.000000	42.746620	.995217-	174.393743	2.412037-	.143804
180.000000	41.170503	1.000000-	180.000000		.136954

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
750.000000	1.170837	1.167131	2.519874	2.312955	1.173380

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	750.000000	1.000000		90.000000-	3.927301
15.000000	704.533147	.871402	29.378010	72.902634-	3.626478
30.000000	589.805257	.546893	56.845778	57.582316-	2.905929
45.000000	450.636205	.153251	81.184567	44.844662-	2.103945
60.000000	323.062025	.207598-	101.981732	34.619428-	1.433173
75.000000	223.279612	.489834-	119.329749	26.505829-	.945776
90.000000	152.895184	.688917-	133.544545	20.090421-	.617736
105.000000	106.654361	.819712-	145.056070	15.016135-	.408234
120.000000	77.675325	.901678-	154.379583	10.967042-	.280038
135.000000	60.100190	.951391-	162.062145	7.660732-	.204370
150.000000	49.872208	.980320-	168.614203	4.856046-	.161566
165.000000	44.559598	.995346-	174.469947	2.356919-	.139840
180.000000	42.914397	1.000000-	180.000000		.133238

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
800.000000	1.095900	1.206375	2.621199	2.422949	1.184309

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	800.000000	1.000000		90.000000-	4.033883
15.000000	750.193166	.868141	29.756677	72.534337-	3.712017
30.000000	625.281705	.537440	57.490356	56.991997-	2.948422
45.000000	475.219978	.140152	81.943335	44.195672-	2.112224
60.000000	339.044265	.220373-	102.731047	34.014900-	1.424982
75.000000	233.446405	.499943-	119.996328	25.990855-	.933324
90.000000	159.435527	.695885-	134.097908	19.675256-	.606389
105.000000	111.023472	.824056-	145.493007	14.694419-	.399347
120.000000	80.770317	.904150-	154.709148	10.727145-	.273352
135.000000	62.453509	.952644-	162.296771	7.491079-	.199233
150.000000	51.805591	.980835-	168.764662	4.747700-	.157378
165.000000	46.277339	.995470-	174.544259	2.303806-	.136176
180.000000	44.566013	1.000000-	180.000000		.129718

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
850.000000	1.029869	1.244448	2.722524	2.532219	1.195157

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	850.000000	1.000000		90.000000-	4.140472
15.000000	795.695770	.864893	30.129501	72.167529-	3.796847
30.000000	660.328348	.528102	58.122615	56.409414-	2.989678
45.000000	499.250580	.127345	82.683769	43.561351-	2.119607
60.000000	354.520213	.232743-	103.458703	33.428707-	1.416588
75.000000	243.217935	.509659-	120.641192	25.494272-	.921118
90.000000	165.688674	.702550-	134.632076	19.276191-	.595430
105.000000	115.187302	.828196-	145.913902	14.385996-	.390836
120.000000	83.712830	.906503-	155.026509	10.497331-	.266972
135.000000	64.688398	.953836-	162.522745	7.328645-	.194329
150.000000	53.640282	.981323-	168.908990	4.644281-	.153415
165.000000	47.907736	.995586-	174.614561	2.253443-	.132648
180.000000	46.133248	1.000000-	180.000000		.126379

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
900.000000	.971260	1.281445	2.823849	2.640856	1.205924

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	900.000000	1.000000		90.000000-	4.247061
15.000000	841.036519	.861656	30.496882	71.802269-	3.880990
30.000000	694.947159	.518876	58.743014	55.834623-	3.029725
45.000000	522.744295	.114822	83.406555	42.941525-	2.126140
60.000000	369.508128	.244729-	104.165905	32.860103-	1.408020
75.000000	252.614434	.519007-	121.265773	25.014936-	.909156
90.000000	171.670912	.708930-	135.147968	18.892424-	.584345
105.000000	119.157696	.832147-	146.320014	14.039834-	.38257-
120.000000	86.512732	.908743-	155.332240	10.277029-	.260384
135.000000	66.811764	.954968-	162.739954	7.173202-	.189679
150.000000	55.381709	.981788-	169.048391	4.545045-	.149522
165.000000	49.454246	.995697-	174.682801	2.205085-	.129209
180.000000	47.619555	1.000000-	180.000000		.123205

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
950.000000	.918884	1.317460	2.925174	2.748934	1.216612

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	950.000000	1.000000		90.000000-	4.353644
15.000000	886.222814	.858430	30.859163	71.438613-	3.964570
30.000000	729.154423	.509761	59.352068	55.267566-	3.068590
45.000000	545.724810	.102576	84.112439	42.335794-	2.131879
60.000000	384.039097	.256343-	104.853225	32.308517-	1.399303
75.000000	261.661563	.528003-	121.870702	24.552330-	.897434
90.000000	177.404444	.715040-	135.646555	18.523095-	.574614
105.000000	122.950443	.835919-	146.711688	13.805475-	.374844
120.000000	89.183840	.910877-	155.626854	10.065779-	.255066
135.000000	68.835451	.956047-	162.949599	7.024118-	.185237
150.000000	57.040727	.982230-	169.182463	4.449991-	.146041
165.000000	50.926242	.995802-	174.748118	2.158904-	.126132
180.000000	49.035297	1.000000-	180.000000		.120190

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1000.000000	.871804	1.352566	3.026499	2.856518	1.227222

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1000.000000	1.000000		90.000000-	4.460227
15.000000	931.253175	.855214	31.216574	71.076274-	4.047713
30.000000	762.953594	.500756	59.949892	54.708187-	3.106312
45.000000	568.206435	.090596	84.802051	41.743757-	2.136863
60.000000	398.130392	.267606-	105.521924	31.773202-	1.390463
75.000000	270.377085	.536669-	122.457239	24.105480-	.885952
90.000000	182.903089	.720898-	136.128757	18.167517-	.564723
105.000000	126.577881	.839525-	147.090070	13.532174-	.367325
120.000000	91.732077	.912914-	155.911213	9.862895-	.249501
135.000000	70.765380	.957074-	163.151452	6.881108-	.180999
150.000000	58.621235	.982650-	169.311608	4.358891-	.142601
165.000000	52.329154	.995902-	174.810971	2.114615-	.123146
180.000000	50.282341	1.000000-	180.000000		.117319

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1050.000000	.829262	1.386826	3.127824	2.963660	1.237754

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	1050.000000	1.000000		90.000000-	4.566811
15.000000	976.127603	.852010	31.568943	70.715597-	4.130073
30.000000	796.350594	.491857	60.537231	54.156486-	3.142938
45.000000	590.203481	.078873	85.476136	41.165184-	2.141144
60.000000	411.799776	.278533-	106.172747	31.253530-	1.381526
75.000000	278.777284	.545022-	123.026243	23.673699-	.874711
90.000000	188.178195	.726522-	136.595717	17.824831-	.555152
105.000000	130.048397	.842976-	147.455846	13.269244-	.360100
120.000000	94.166324	.914860-	156.185889	9.667975-	.244174
135.000000	72.604512	.958055-	163.346429	6.743770-	.176952
150.000000	60.126837	.983052-	169.436455	4.271400-	.139335
165.000000	53.664955	.995997-	174.871762	2.072044-	.120404
180.000000	51.666928	1.000000-	180.000000		.114580

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1100.000000	.790635	1.420299	3.229149	3.070407	1.248210

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	1100.000000	1.000000		90.000000-	4.673396
15.000000	1020.847576	.848818	31.916671	70.356696-	4.211948
30.000000	829.355292	.483063	61.114314	53.612348-	3.178487
45.000000	611.732725	.067399	86.135324	40.599617-	2.144761
60.000000	425.067483	.289139-	106.806495	30.748983-	1.372507
75.000000	286.880420	.553080-	123.578689	23.256242-	.863697
90.000000	193.246541	.731923-	137.047953	17.494464-	.545890
105.000000	133.373836	.846282-	147.809647	13.016168-	.353150
120.000000	96.494970	.916721-	156.451398	9.480503-	.239067
135.000000	74.364196	.958992-	163.534818	6.611703-	.173082
150.000000	61.566265	.983436-	169.557177	4.187232-	.136191
165.000000	54.942528	.996088-	174.930318	2.031249-	.117687
180.000000	52.893674	1.000000-	180.000000		.111967

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1150.000000	.755410	1.453036	3.330474	3.176799	1.258590

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1150.000000	1.000000		90.000000-	4.779977
15.000000	1065.411123	.845636	32.259815	69.999228-	4.293159
30.000000	861.970154	.474372	61.681428	53.075659-	3.212985
45.000000	632.807984	.056167	86.780131	40.046770-	2.147748
60.000000	437.949303	.299437-	107.423857	30.258990-	1.363432
75.000000	294.699816	.560857-	124.115149	22.852536-	.852919
90.000000	198.116515	.737115-	137.486323	17.175785-	.536923
105.000000	136.559626	.849452-	148.152162	12.772432-	.346463
120.000000	98.722457	.918502-	156.708083	9.300193-	.234175
135.000000	76.043940	.959888-	163.716904	6.484850-	.169377
150.000000	62.940556	.983801-	169.673144	4.106617-	.133222
165.000000	56.160391	.996175-	174.986927	1.991945-	.115059
180.000000	54.063672	1.000000-	180.000000		.109470

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1200.000000	.723154	1.485088	3.431799	3.282871	1.268897

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1200.000000	1.000000		90.000000-	4.886566
15.000000	1109.825644	.842465	32.598605	69.643364-	4.373853
30.000000	894.208506	.465781	62.239145	52.546418-	3.246469
45.000000	653.446530	.045169	87.411072	39.506357-	2.150150
60.000000	450.465981	.309442-	108.025692	29.782804-	1.354306
75.000000	302.254222	.568369-	124.636656	22.461779-	.842361
90.000000	202.803909	.742109-	137.911458	16.868164-	.528233
105.000000	139.619089	.852493-	148.483961	12.537519-	.340022
120.000000	100.858653	.920208-	156.956575	9.125472-	.229473
135.000000	77.054106	.959746-	163.893146	6.362639-	.165830
150.000000	64.253619	.984152-	169.785959	4.028752-	.130371
165.000000	57.323935	.996259-	175.042717	1.954015-	.112438
[illegible]	55.[illegible]	1.000000-	180.000000		.107083

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1250.000000	.693517	1.516489	3.533124	3.388652	1.279130

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1250.000000	1.000000		90.000000-	4.993151
15.000000	1154.083244	.839304	32.933213	69.289047-	4.453933
30.000000	926.070346	.457291	62.787523	52.024510-	3.278961
45.000000	673.657244	.034397	88.028778	38.978032-	2.151996
60.000000	462.627327	.319165-	108.612516	29.320198-	1.345152
75.000000	309.552522	.575628-	125.143723	22.083569-	.832030
90.000000	207.314149	.746918-	138.324216	16.571028-	.519818
105.000000	142.555680	.855414-	148.805620	12.310972-	.333814
120.000000	102.905039	.921845-	157.197389	8.959054-	.224961
135.000000	79.195681	.961568-	164.063945	6.244896-	.162418
150.000000	65.515440	.984488-	169.895051	3.953924-	.127628
165.000000	58.442158	.996338-	175.095044	1.917747-	.110170
180.000000	56.256123	1.000000-	180.000000		.104797

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1300.000000	.666187	1.547282	3.634449	3.494169	1.289291

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1300.000000	1.000000		90.000000-	5.099733
15.000000	1198.190832	.836156	33.263580	68.936520-	4.533366
30.000000	957.566038	.448899	63.326848	51.510052-	3.310487
45.000000	693.456411	.023646	88.633534	38.461511-	2.153320
60.000000	474.451658	.328618-	109.185015	28.870484-	1.335983
75.000000	316.610012	.582646-	125.636933	21.717335-	.821916
90.000000	211.659574	.751551-	138.725000	16.293919-	.511657
105.000000	145.378775	.858222-	149.117653	12.092274-	.327826
120.000000	104.870004	.923416-	157.430812	8.707652-	.220616
135.000000	80.674092	.962356-	164.228198	6.161430-	.159155
150.000000	66.721934	.984810-	170.008704	3.881731-	.125000
165.000000	59.511984	.996414-	175.146132	1.812798-	.107705
180.000000	57.289510	1.000000-	180.000000		.102500

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1350.000000	.640909	1.577501	3.735774	3.599445	1.299382

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1350.000000	1.000000		90.000000-	5.206323
15.000000	1242.149888	.833017	33.589994	68.585684-	4.612382
30.000000	988.702983	.440602	63.857636	51.002755-	3.341081
45.000000	712.856861	.013507	89.226030	37.956391-	2.154154
60.000000	485.954252	.337812-	109.743706	28.433145-	1.326808
75.000000	323.438043	.589437-	126.117179	21.362387-	.812013
90.000000	215.849558	.756017-	139.114383	16.006320-	.503740
105.000000	148.094788	.860923-	149.420461	11.881139-	.322049
120.000000	106.757988	.924925-	157.657130	8.641922-	.216438
135.000000	82.093288	.963113-	164.389499	6.022072-	.156016
150.000000	67.881589	.985118-	170.102920	3.812174-	.122470
165.000000	60.538384	.996487-	175.195999	1.848992-	.105651
180.000000	58.269447	1.000000-	180.000000		.100506

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1400.000000	.617459	1.607177	3.837099	3.704501	1.309403

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1400.000000	1.000000		90.000000-	5.312905
15.000000	1285.958437	.829890	33.912512	68.236466-	4.690695
30.000000	1019.484635	.432400	64.379944	50.502620-	3.370784
45.000000	731.869943	.003376	89.806494	37.462501-	2.154522
60.000000	497.144485	.346757-	110.289162	28.007896-	1.317634
75.000000	330.047963	.596009-	126.584712	21.018383-	.802317
90.000000	219.892490	.760324-	139.492821	15.737890-	.496060
105.000000	150.709642	.863522-	149.714446	11.677223-	.316471
120.000000	108.572447	.926376-	157.876860	8.491635-	.212417
135.000000	83.457217	.963839-	164.544828	5.916534-	.153002
150.000000	68.993852	.985414-	170.202041	3.745138-	.120066
165.000000	61.522840	.996558-	175.244643	1.816276-	.103454
180.000000	59.215413	1.000000-	180.000000		.098490

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1450.000000	.595651	1.636333	3.938424	3.809354	1.319355

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1450.000000	1.000000		90.000000-	5.419495
15.000000	1329.614508	.826771	34.231478	67.888852-	4.768556
30.000000	1049.915930	.424291	64.894117	50.009647-	3.399573
45.000000	750.505527	.006556-	90.375670	36.979441-	2.154454
60.000000	508.036173	.355465-	110.822013	27.594106-	1.308476
75.000000	336.448163	.602376-	127.040328	20.684750-	.792825
90.000000	223.793799	.764484-	139.861176	15.477939-	.488605
105.000000	153.227284	.866027-	150.000294	11.479954-	.311082
120.000000	110.318808	.927772-	158.090229	8.346333-	.208542
135.000000	84.768838	.964537-	164.695630	5.814604-	.150099
150.000000	70.062196	.985700-	170.298814	3.680222-	.117729
165.000000	62.468807	.996626-	175.292027	1.784591-	.101358
180.000000	60.123876	1.000000-	180.000000		.096552

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1500.000000	.575315	1.665002	4.039749	3.914022	1.329240

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1500.000000	1.000000		90.000000-	5.526077
15.000000	1373.125994	.823665	34.546547	67.543072-	4.845822
30.000000	1080.005735	.416273	65.400439	49.523664-	3.427522
45.000000	768.776937	.016292-	90.933559	36.506980-	2.153971
60.000000	518.642641	.363942-	111.342545	27.191545-	1.299342
75.000000	342.651964	.608543-	127.484313	20.361144-	.783531
90.000000	227.562860	.768500-	140.219504	15.226353-	.481363
105.000000	155.655116	.868441-	150.278007	11.289274-	.305871
120.000000	112.000033	.929115-	158.297353	8.205958-	.204805
135.000000	86.030620	.965209-	164.842136	5.716113-	.147305
150.000000	71.090077	.985973-	170.392034	3.617712-	.115485
165.000000	63.379244	.996690-	175.336717	1.754511-	.099573
180.000000	60.997747	1.000000-	180.000000		.094690

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1550.000000	.556310	1.693203	4.141074	4.018518	1.339058

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1550.000000	1.000000		90.000000-	5.632657
15.000000	1416.487467	.820569	34.858122	67.198897-	4.922616
30.000000	1109.759027	.408345	65.899027	49.044614-	3.454622
45.000000	786.693053	.025839-	91.480676	36.044832-	2.153107
60.000000	528.972770	.372199-	111.851389	26.799642-	1.290238
75.000000	348.665289	.614522-	127.917297	20.047163-	.774428
90.000000	231.205102	.772381-	140.568263	14.982559-	.474331
105.000000	157.997086	.870769-	150.548214	11.104724-	.300832
120.000000	113.619574	.930410-	158.498863	8.070225-	.201198
135.000000	87.244042	.965856-	164.984573	5.620945-	.144620
150.000000	72.079468	.986237-	170.483135	3.557151-	.113320
165.000000	64.254645	.996753-	175.381465	1.724889-	.097716
180.000000	61.838162	1.000000-	180.000000		.092899

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1600.000000	.538511	1.720959	4.242399	4.122856	1.348811

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1600.000000	1.000000		90.000000-	5.739244
15.000000	1459.701889	.817484	35.166259	66.856554-	4.998665
30.000000	1139.180698	.400506	66.390109	48.572440-	3.480905
45.000000	804.262760	.035204-	92.017538	35.592654-	2.151875
60.000000	539.036923	.380246-	112.349060	26.418052-	1.281167
75.000000	354.496527	.620322-	128.339739	19.742292-	.765518
90.000000	234.725951	.776136-	140.908199	14.746329-	.467495
105.000000	160.256154	.873017-	150.811201	10.926018-	.295956
120.000000	115.179900	.931658-	158.694814	7.938845-	.197718
135.000000	88.413053	.966480-	165.123172	5.528756-	.142016
150.000000	73.031356	.986491-	170.571599	3.498594-	.111260
165.000000	65.096984	.996813-	175.424494	1.696528-	.095804
180.000000	62.648946	1.000000-	180.000000		.091173

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1650.000000	.521805	1.748290	4.343724	4.227048	1.358500

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1650.000000	1.000000		90.000000-	5.845834
15.000000	1502.770740	.814410	35.470900	66.515988-	5.074268
30.000000	1168.275698	.392752	66.874087	48.106911-	3.506410
45.000000	821.498887	.044390-	92.544258	35.150273-	2.150300
60.000000	548.847436	.388089-	112.835730	26.046432-	1.272141
75.000000	360.154560	.625951-	128.752154	19.446130-	.756789
90.000000	238.133798	.779768-	141.239426	14.517260-	.460851
105.000000	162.438242	.875188-	151.067256	10.752928-	.291232
120.000000	116.685946	.932862-	158.885495	7.811592-	.194358
135.000000	89.540613	.967081-	165.257874	5.439546-	.139518
150.000000	73.949195	.986736-	170.657543	3.441986-	.109260
165.000000	65.908235	.996872-	175.466836	1.668796-	.094012
180.000000	63.426616	1.000000-	180.000000		.089511

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1700.000000	.506095	1.775218	4.445048	4.331102	1.368125

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1700.000000	1.000000		90.000000-	5.952404
15.000000	1545.694019	.811346	35.772276	66.177198-	5.149279
30.000000	1197.051429	.385085	67.350902	47.648259-	3.531129
45.000000	838.411302	.053401-	93.061180	34.717403-	2.148401
60.000000	558.413686	.395734-	113.311858	25.684494-	1.263167
75.000000	365.649257	.631413-	129.154542	19.158448-	.748242
90.000000	241.434071	.783283-	141.562230	14.295067-	.454391
105.000000	164.549271	.877285-	151.316607	10.585223-	.286659
120.000000	118.141165	.934024-	159.071076	7.688463-	.191110
135.000000	90.629683	.967661-	165.389081	5.353259-	.137095
150.000000	74.834959	.986971-	170.740908	3.387211-	.107325
165.000000	66.693826	.996926-	175.506313	1.642670-	.092360
180.000000	64.178652	1.000000-	180.000000		.087909

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1750.000000	.491297	1.801755	4.546373	4.435031	1.377689

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1750.000000	1.000000		90.000000-	6.059001
15.000000	1588.472221	.808290	36.070787	65.840013-	5.223996
30.000000	1225.512330	.377501	67.820957	47.196080-	3.555116
45.000000	855.006422	.062246-	93.568821	34.293701-	2.146197
60.000000	567.742088	.403193-	113.778017	25.331782-	1.254245
75.000000	370.984566	.636720-	129.547763	18.878844-	.739868
90.000000	244.627755	.786690-	141.877300	14.079406-	.448104
105.000000	166.588255	.879314-	151.559828	10.422446-	.282225
120.000000	119.545063	.935148-	159.252130	7.569001-	.187963
135.000000	91.680264	.968221-	165.516851	5.269550-	.134763
150.000000	75.689635	.987199-	170.822440	3.334156-	.105464
165.000000	67.446849	.996982-	175.547509	1.616256-	.090662
180.000000	64.904040	1.000000-	180.000000		.086361

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1800.000000	.477331	1.827922	4.647698	4.538843	1.387191

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1800.000000	1.000000		90.000000-	6.165581
15.000000	1631.107319	.805247	36.365860	65.504660-	5.297956
30.000000	1253.662351	.370000	68.284308	46.750434-	3.578359
45.000000	871.294608	.070926-	94.067237	33.879109-	2.143706
60.000000	576.844484	.410469-	114.234378	24.987950-	1.245377
75.000000	376.168875	.641876-	129.931989	18.607033-	.731667
90.000000	247.724722	.789990-	142.184691	13.869990-	.441985
105.000000	168.561609	.881276-	151.796746	10.264710-	.277927
120.000000	120.903070	.936233-	159.428315	7.453206-	.184920
135.000000	92.694328	.968762-	165.641297	5.188476-	.132501
150.000000	76.514209	.987420-	170.902310	3.282475-	.103649
165.000000	68.177666	.997033-	175.585037	1.591619-	.089289
180.000000	65.604263	1.000000-	180.000000		.084869

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1850.000000	.464134	1.853728	4.749023	4.642544	1.396633

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1850.000000	1.000000		90.000000-	6.272169
15.000000	1673.593884	.802212	36.658069	65.170970-	5.371479
30.000000	1281.505438	.362580	68.741185	46.311204-	3.600888
45.000000	887.280796	.079448-	94.556887	33.473111-	2.140945
60.000000	585.724329	.417570-	114.681342	24.652827-	1.236574
75.000000	381.206133	.646888-	130.307448	18.342613-	.723629
90.000000	250.723982	.793191-	142.484807	13.666647-	.436030
105.000000	170.469826	.883177-	152.028106	10.111444-	.273753
120.000000	122.214692	.937283-	159.600259	7.340849-	.181973
135.000000	93.673356	.969285-	165.762650	5.109809-	.130320
150.000000	77.310657	.987632-	170.979316	3.232685-	.101911
165.000000	68.881342	.997084-	175.623254	1.567211-	.087695
180.000000	66.279812	1.000000-	180.000000		.083426

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1900.000000	.451637	1.879200	4.850348	4.746143	1.406017

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1900.000000	1.000000		90.000000-	6.378751
15.000000	1715.949189	.799189	35.947183	64.839227-	5.444444
30.000000	1309.055409	.355240	69.191759	45.878335-	3.622735
45.000000	902.984230	.087813-	95.037885	33.075765-	2.137825
60.000000	594.399387	.424501-	115.119196	24.328954-	[illegible]
75.000000	386.110156	.651759-	130.674428	18.083412-	.718754
90.000000	253.039354	.796293-	142.777646	13.469140-	[illegible]
105.000000	172.323238	.885015-	152.253451	9.962870-	[illegible]
120.000000	123.487330	.938398-	159.767792	7.231873-	[illegible]
135.000000	94.624750	.969769-	165.880507	5.033663-	[illegible]
150.000000	77.783[illegible]	.987937-	171.054003	1.1[illegible]270-	[illegible]
165.000000	69.[illegible]	.997[illegible]-	175.65[illegible]630	1.5[illegible]34-	[illegible]
180.000000	[illegible]	1.000000-	180.000000		[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
1950.000000	.439795	1.904331	4.951673	4.849645	1.415341

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	1950.000000	1.000000		90.000000-	6.485339
15.000000	1758.148560	.796175	37.233548	64.509261-	5.516848
30.000000	1336.300421	.347978	69.636259	45.451710-	3.643922
45.000000	918.394548	.096030-	95.510690	32.686612-	2.134676
60.000000	602.861763	.431271-	115.548342	24.007161-	1.219154
75.000000	390.871569	.656501-	131.033615	17.835030-	.708040
90.000000	256.461462	.799307-	143.064010	13.277036-	.424577
105.000000	174.112560	.886799-	152.473810	9.818376-	.265775
120.000000	124.714569	.939282-	159.931314	7.126048-	.176355
135.000000	95.539135	.970280-	165.996302	4.959408-	.126156
150.000000	78.826571	.988037-	171.128686	3.137115-	.098583
165.000000	70.221585	.997179-	175.695045	1.521145-	.084755
180.000000	67.565773	1.000000-	180.000000		.080683

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2000.000000	.428551	1.929152	5.052998	4.953058	1.424609

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2000.000000	1.000000		90.000000-	6.591922
15.000000	1800.216177	.793171	37.517104	64.181013-	5.588781
30.000000	1363.262186	.340795	70.074629	45.031217-	3.684422
45.000000	933.537410	.104099-	95.975301	32.305538-	2.181198
60.000000	611.133169	.437882-	115.968893	23.696159-	1.210648
75.000000	395.512577	.661113-	131.384895	17.531351-	.700475
90.000000	259.206590	.802230-	143.343671	13.090300-	.419072
105.000000	175.051026	.888527-	152.683784	9.678050-	.261057
120.000000	125.907266	.940234-	160.090941	7.023316-	.178078
135.000000	96.429833	.970752-	166.133544	4.857673-	.124106
150.000000	78.549493	.988228-	171.109847	3.0[illegible]-	.097021
165.000000	70.051137	.997125-	175.730007	1.4[illegible]-	.083417
180.000000	68.178150	1.000000-	180.000000		.079879

E	$\bar{\lambda}^2$	η_B	γ_L	η_L	γ_0
2050.000000	.417862	1.953669	5.154323	5.056036	1.433021

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2050.000000	1.000000		90.000000-	6.698504
15.000000	1842.145625	.790179	37.797682	63.854714-	5.660224
30.000000	1389.938730	.333687	70.507212	44.616911-	3.684301
45.000000	948.412815	.112024-	96.432063	31.932370-	2.127502
60.000000	619.215580	.444340-	116.381250	23.392721-	1.202011
75.000000	400.029726	.665603-	131.728727	17.353975-	.693062
90.000000	261.872764	.805060-	143.617029	12.908681-	.413707
105.000000	177.538666	.890203-	152.898888	9.541695-	.258248
120.000000	127.062460	.941157-	160.246842	6.923450-	.171074
135.000000	97.290431	.971211-	166.218438	4.817772-	.122271
150.000000	80.249715	.988414-	171.269863	3.047333-	.095493
165.000000	71.477445	.997269-	175.764488	1.477314-	.082040
180.000000	68.771794	1.000000-	180.000000		.078117

E	$\bar{\lambda}^2$	η_B	γ_L	η_L	γ_0
2100.000000	.407691	1.977889	5.255648	5.159635	1.442977

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2100.000000	1.000000		90.000000-	6.805091
15.000000	1883.932955	.787196	38.075738	63.530133-	5.731117
30.000000	1416.333014	.326655	70.934009	44.208507-	3.703543
45.000000	963.024219	.119812-	96.881319	31.566823-	2.123617
60.000000	627.112942	.450653-	116.785701	23.096444-	1.193551
75.000000	404.427951	.669977-	132.065397	17.122729-	.685793
90.000000	264.462945	.807829-	143.884428	12.731924-	.408474
105.000000	179.174985	.891830-	153.104121	9.408998-	.254641
120.000000	128.183112	.942032-	160.399077	6.826391-	.168552
135.000000	98.125861	.971655-	166.325695	4.749934-	.120405
150.000000	80.927731	.988594-	[illegible]	3.004304-	.094042
165.000000	72.077001	.997311-	[illegible]	1.456873-	.080847
180.000000	69.346183	.000000-	[illegible]		.076895

E	β^2	η_B	γ_L	η_L	γ_0
2150.000000	.398000	2.001824	5.356973	5.262809	1.452079

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2150.000000	1.000000		90.000000-	6.911677
15.000000	1925.580142	.784222	38.351159	63.207329-	5.801486
30.000000	1442.449972	.319696	71.355362	43.806061-	3.722195
45.000000	977.384450	.127463-	97.323070	31.208667-	2.119537
60.000000	634.833645	.456823-	117.182417	22.807215-	1.185164
75.000000	408.712186	.674237-	132.395020	16.897442-	.678668
90.000000	266.980094	.810512-	144.146041	12.559865-	.403368
105.000000	180.762945	.893409-	153.304886	9.279968-	.251131
120.000000	129.268728	.942920-	160.547932	6.731910-	.166098
135.000000	98.934645	.972086-	166.430547	4.683872-	.118599
150.000000	81.583542	.988769-	171.404909	2.962478-	.092603
165.000000	72.655338	.997353-	175.830378	1.436061-	.079601
180.000000	69.902315	1.000000-	180.000000		.075708

E	β^2	η_B	γ_L	η_L	γ_0
2200.000000	.388757	2.025483	5.458298	5.365912	1.461127

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2200.000000	1.000000		90.000000-	7.018265
15.000000	1967.085706	.781257	38.624116	62.886301-	5.871496
30.000000	1468.291578	.312809	71.771329	43.409345-	3.740269
45.000000	991.492522	.134984-	97.757773	30.857788-	2.115289
60.000000	642.380649	.462857-	117.571742	22.524804-	1.176856
75.000000	412.886873	.678389-	132.717996	16.677770-	.671681
90.000000	269.426677	.813121-	144.402038	12.392332-	.398388
105.000000	182.304520	.894943-	153.501124	9.154375-	.247719
120.000000	130.322762	.943763-	160.693463	6.640065-	.163719
135.000000	99.718263	.972505-	166.533163	4.619644-	.116849
150.000000	82.219614	.988039-	171.470341	2.921683-	.091211
165.000000	73.218378	.997393-	175.861661	1.416408-	.078337
180.000000	70.441669	1.000000-	180.000000		.074557

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2250.000000	.379929	2.048878	5.559623	5.468949	1.470122

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2250.000000	1.000000		90.000000-	7.124842
15.000000	2008.457542	.778305	38.894323	62.567392-	5.940888
30.000000	1493.868196	.305995	72.181911	43.018359-	3.757749
45.000000	1005.363733	.142374-	98.185314	30.513956-	2.110871
60.000000	649.762838	.468758-	117.953848	22.248868-	1.168618
75.000000	416.957932	.682435-	133.034326	16.463655-	.664829
90.000000	271.809604	.815658-	144.652535	12.229153-	.393529
105.000000	183.803656	.896433-	153.693179	9.032164-	.244395
120.000000	131.346695	.944580-	160.835614	6.550683-	.161405
135.000000	100.480661	.972910-	166.633145	4.557191-	.115154
150.000000	82.837922	.989103-	171.533767	2.882206-	.089867
165.000000	73.763653	.997432-	175.892830	1.397214-	.077246
180.000000	70.965232	1.000000-	180.000000		.073443

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2300.000000	.371492	2.072015	5.660948	5.571923	1.479065

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2300.000000	1.000000		90.000000-	7.231425
15.000000	2049.691702	.775362	39.162123	62.250146-	6.009759
30.000000	1519.177850	.299250	72.587393	42.633045-	3.774665
45.000000	1018.998082	.149640-	98.606151	30.176999-	2.106299
60.000000	656.983664	.474531-	118.328906	21.979291-	1.160464
75.000000	420.926352	.686382-	133.344526	16.254755-	.658105
90.000000	274.125420	.818129-	144.898048	12.070100-	.388780
105.000000	185.260356	.897881-	153.880995	8.913046-	.241164
120.000000	132.340034	.945375-	160.974785	6.463651-	.159157
135.000000	101.219373	.973304-	166.731178	4.496400-	.113502
150.000000	83.437478	.989263-	171.5[illegible]4	2.343589-	.088541
165.000000	74.292644	.997470-	175.9[illegible]3425	1.378364-	.076123
180.000000	71.473004	1.000000-	[illegible]		.072300

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2350.000000	.363418	2.094904	5.762273	5.674838	1.487958

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2350.000000	1.000000		90.000000-	7.338020
15.000000	2090.788679	.772426	39.427747	61.934675-	6.078275
30.000000	1544.229918	.292575	72.987776	42.253288-	3.791034
45.000000	1032.402971	.156785-	99.020400	29.846689-	2.101582
60.000000	664.050036	.480180-	118.697203	21.715902-	1.152387
75.000000	424.798053	.690232-	133.648594	16.050954-	.651511
90.000000	276.382514	.820533-	145.138232	11.915115-	.384150
105.000000	186.676591	.899290-	154.064971	8.797079-	.238015
120.000000	133.305739	.946147-	161.110977	6.378853-	.156967
135.000000	101.937360	.973687-	166.827205	4.437157-	.111893
150.000000	84.019269	.989418-	171.657240	2.806118-	.087272
165.000000	74.806832	.997506-	175.952590	1.360316-	.074967
180.000000	71.965972	1.000000-	180.000000		.071309

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2400.000000	.355687	2.117549	5.863598	5.777696	1.496799

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2400.000000	1.000000		90.000000-	7.444592
15.000000	2131.746500	.769502	39.690734	61.621038-	6.146173
30.000000	1569.021438	.285969	73.383174	41.879032-	3.806894
45.000000	1045.583335	.163809-	99.428117	29.522911-	2.096729
60.000000	670.964423	.485708-	119.058969	21.458472-	1.144390
75.000000	428.573529	.693988-	133.946762	15.852138-	.645040
90.000000	278.577926	.822875-	145.373717	11.764026-	.373623
105.000000	188.053349	.900660-	154.244995	8.684034-	.234343
120.000000	134.243809	.946897-	161.244075	6.286405-	.154843
135.000000	102.634622	.974058-	166.920712	4.379574-	.110330
150.000000	84.583790	.989[illegible]-	171.717114	2.769506-	.08[illegible]
165.000000	75.303743	.997[illegible]-	175.[illegible]342	1.342210-	.07[illegible]
180.000000	72.443643	1.00[illegible]-	[illegible]		.07[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2450.000000	.348274	2.139967	5.964923	5.880502	1.505592

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2450.000000	1.000000		90.000000-	7.551179
15.000000	2172.577995	.766587	39.951545	61.309406-	6.213667
30.000000	1593.568201	.279428	73.773817	41.509990-	3.822221
45.000000	1058.550030	.170718-	99.829646	29.205492-	2.091749
60.000000	677.739653	.491119-	119.414260	21.206772-	1.136472
75.000000	432.262650	.697654-	134.239199	15.658019-	.638690
90.000000	280.721524	.825156-	145.604390	11.616604-	.375204
105.000000	189.397046	.901993-	154.421351	8.573855-	.231955
120.000000	135.159181	.947627-	161.374652	6.215904-	.152774
135.000000	103.313625	.974420-	167.012786	4.323310-	.108814
150.000000	85.135973	.989715-	171.775441	2.733925-	.084835
165.000000	75.791288	.997577-	176.010401	1.325194-	.072790
180.000000	72.910458	1.000000-	180.000000		.069296

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2500.000000	.341165	2.162147	6.066248	5.983256	1.514335

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2500.000000	1.000000		90.000000-	7.657772
15.000000	2213.261452	.763681	40.210178	60.999436-	6.280705
30.000000	1617.855896	.272955	74.159761	41.146391-	3.837046
45.000000	1071.294668	.177515-	100.225158	28.894147-	2.086655
60.000000	684.361417	.496421-	119.763592	20.960629-	1.128633
75.000000	435.856038	.701236-	134.526366	15.468428-	.632459
90.000000	282.802946	.827381-	145.830708	11.472792-	.370881
105.000000	190.697317	.903293-	154.594442	8.466368-	.229035
120.000000	136.043465	.948338-	161.502594	6.137409-	.150753
135.000000	103.971410	.974772-	167.102855	4.268478-	.107331
150.000000	85.656938	.989858-	171.832851	2.699204-	.083676
165.000000	76.260570	.997610-	176.997731	1.308521-	.071737
180.000000	73.360988	1.000000-	180.000000		.068331

E	$\bar{\lambda}^2$	η_B	γ_L	η_L	γ_0
2550.000000	.334334	2.184123	6.167573	6.085963	1.523031

θ_K	E_K	$\cos \chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2550.000000	1.000000		90.000000-	7.764348
15.000000	2253.831412	.760787	40.466347	60.691528-	6.347070
30.000000	1641.913638	.266547	74.541064	40.787949-	3.851376
45.000000	1083.847842	.184198-	100.614483	28.588932-	2.081441
60.000000	690.861789	.501609-	120.106622	20.719872-	1.120874
75.000000	439.377381	.704730-	134.807860	15.283362-	.626343
90.000000	284.841930	.829547-	146.052271	11.332532-	.366661
105.000000	191.973903	.904556-	154.763636	8.361631-	.226193
120.000000	136.912451	.949028-	161.627671	6.060976-	.148792
135.000000	104.615377	.975114-	167.190919	4.215021-	.105898
150.000000	86.188527	.989997-	171.889288	2.665170-	.082515
165.000000	76.722450	.997643-	176.065233	1.292019-	.070957
180.000000	73.804117	1.000000-	180.000000		.067394

E	$\bar{\lambda}^2$	η_B	γ_L	η_L	γ_0
2600.000000	.327775	2.205867	6.268898	6.188625	1.531679

θ_K	E_K	$\cos \chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2600.000000	1.000000		90.000000-	7.870942
15.000000	2294.245438	.757900	40.720569	60.385283-	6.413217
30.000000	1665.712806	.260202	74.917899	40.434605-	3.865245
45.000000	1096.181919	.190777-	100.998250	28.289504-	2.076130
60.000000	697.215109	.506695-	120.444037	20.484320-	1.113197
75.000000	442.805954	.708146-	135.084369	15.102480-	.620341
90.000000	286.819231	.931663-	146.269995	11.195480-	.362520
105.000000	193.207558	.905788-	154.929679	8.259358-	.223419
120.000000	137.749855	.949702-	161.750570	5.936320-	.146677
135.000000	105.237139	.975447-	167.277206	4.162996-	.104503
150.000000	86.692352	.990131-	171.943833	2.632340-	.081417
165.000000	77.165579	.997675-	176.092105	1.275977-	.069896
180.000000	74.228494	1.000000-	180.000000		.066480

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2650.000000	.321463	2.227420	6.370223	6.291243	1.540281

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2650.000000	1.000000		90.000000-	7.977523
15.000000	2334.543501	.755021	40.972727	60.080813-	6.478845
30.000000	1689.289423	.253921	75.290264	40.086304-	3.878638
45.000000	1108.330455	.197249-	101.376231	27.995806-	2.070718
60.000000	703.449999	.511676-	120.775665	20.253943-	1.105596
75.000000	446.164948	.711482-	135.355722	14.925837-	.614446
90.000000	288.757055	.833724-	146.483250	11.061752-	.358495
105.000000	194.416539	.906988-	155.092514	8.159549-	.220709
120.000000	138.570976	.950357-	161.870834	5.913497-	.145011
135.000000	105.846071	.975771-	167.361890	4.112175-	.103132
150.000000	87.186801	.990262-	171.997405	2.600139-	.080352
165.000000	77.601306	.997706-	176.118346	1.260277-	.069026
180.000000	74.646950	1.000000-	180.000000		.065592

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2700.000000	.315389	2.248767	6.471548	6.393819	1.548837

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2700.000000	1.000000		90.000000-	8.084104
15.000000	2374.709316	.752155	41.222537	59.778348-	6.543939
30.000000	1712.629672	.247703	75.658332	39.743045-	3.891562
45.000000	1120.284566	.203618-	101.748710	27.707608-	2.065213
60.000000	709.560043	.516557-	121.101735	20.028427-	1.098080
75.000000	449.446469	.714743-	135.622205	14.753147-	.608658
90.000000	290.646521	.835736-	146.692609	10.931175-	.354543
105.000000	195.595913	.908157-	155.252025	8.062089-	.218071
120.000000	139.371371	.950995-	161.988634	5.842507-	.143191
135.000000	106.440692	.976085-	167.444367	4.05261[illegible]-	.101312
150.000000	87.666939	.990390-	172.090403	2.3[illegible]-	.079293
165.000000	78.025189	.997736-	176.140843	1.245094-	.063[illegible]
180.000000	[illegible].053552	1.000000-	180.000000		.064[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2750.000000	.309540	2.269913	6.572873	6.496357	1.557347

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2750.000000	1.000000		90.000000-	8.190689
15.000000	2414.736468	.749297	41.470456	59.477775-	6.608551
30.000000	1735.735033	.241546	76.022103	39.404599-	3.904040
45.000000	1132.045734	.209887-	102.115804	27.424911-	2.059630
60.000000	715.544254	.521343-	121.422477	19.807666-	1.090641
75.000000	452.651010	.717932-	135.884104	14.584297-	.602974
90.000000	292.488120	.837700-	146.898129	10.803577-	.350679
105.000000	196.740744	.909299-	155.408729	7.966920-	.215490
120.000000	140.148080	.951618-	162.104486	5.773065-	.141416
135.000000	107.016069	.976394-	167.526042	4.014199-	.100517
150.000000	88.131780	.990515-	172.102199	2.537973-	.078271
165.000000	78.436243	.997766-	176.169110	1.230140-	.067238
180.000000	75.447838	1.000000-	180.000000		.063885

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2800.000000	.303901	2.290875	6.674198	6.598857	1.555814

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2800.000000	1.000000		90.000000-	8.297274
15.000000	2454.643216	.746448	41.716312	59.178920-	6.672758
30.000000	1758.619323	.235449	76.381863	39.070966-	3.916098
45.000000	1143.629750	.216058-	102.477685	27.147428-	2.053963
60.000000	721.416942	.526034-	121.738005	19.591547-	1.083282
75.000000	455.789427	.721049-	136.141247	14.419170-	.597390
90.000000	294.289749	.839617-	147.099753	10.678902-	.346898
105.000000	197.862383	.910411-	155.562282	7.874044-	.212969
120.000000	140.909985	.952224-	162.217817	5.705341-	.139689
135.000000	107.579602	.976694-	167.605912	3.966873-	.099257
150.000000	88.589219	.990636-	172.152848	2.508008-	.077285
165.000000	78.837921	.997795-	176.194149	1.215529-	.066303
180.000000	75.834219	1.000000-	180.000000		.063065

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2850.000000	.298465	2.311644	6.775523	6.701321	1.574236

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2850.000000	1.000000		90.000000-	8.403858
15.000000	2494.410807	.743609	41.960163	58.882013-	6.736556
30.000000	1781.273166	.229412	76.737441	38.742031-	3.927736
45.000000	1155.028717	.222134-	102.834465	26.875158-	2.048232
60.000000	727.169720	.530635-	122.048491	19.379896-	1.075999
75.000000	458.854318	.724099-	136.394036	14.257768-	.591906
90.000000	296.045979	.841490-	147.297824	10.557033-	.343196
105.000000	198.953426	.911497-	155.713085	7.783230-	.210508
120.000000	141.648697	.952816-	162.329200	5.639107-	.138000
135.000000	108.126851	.976986-	167.684064	3.920692-	.098029
150.000000	89.032348	.990754-	172.202581	2.478787-	.076309
165.000000	79.227756	.997823-	176.218499	1.201263-	.065356
180.000000	76.208263	1.000000-	180.000000		.062265

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2900.000000	.293218	2.332233	6.876848	6.803751	1.582615

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2900.000000	1.000000		90.000000-	8.510446
15.000000	2534.051579	.740779	42.202123	58.586883-	6.799856
30.000000	1803.708406	.223433	77.089180	38.417737-	3.938966
45.000000	1166.252505	.228116-	103.186262	26.607816-	2.042427
60.000000	732.812455	.535147-	122.353992	19.172657-	1.068799
75.000000	461.854566	.727083-	136.642471	14.099803-	.586520
90.000000	297.761253	.843320-	147.492458	10.437801-	.339572
105.000000	200.018317	.912557-	155.861251	7.694422-	.208101
120.000000	142.370138	.953393-	162.438463	5.574421-	.136354
135.000000	108.661270	.977271-	167.760783	3.875631-	.096825
150.000000	89.464620	.99986[illegible]-	172.251340	2.450254-	.075372
165.000000	79.611172	[illegible]	176.261121	1.1[illegible]-	[illegible]
180.000000	76.573[illegible]	[illegible]	[illegible]		[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
2950.000000	.288153	2.352644	6.978173	6.906149	1.590951
θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	2950.000000	1.000000		90.000000-	8.617031
15.000000	2573.560597	.737958	42.442192	58.293643-	6.862651
30.000000	1825.925042	.217513	77.436965	38.098026-	3.949784
45.000000	1177.303582	.234007-	103.533187	26.345401-	2.036560
60.000000	738.347616	.539574-	122.654737	18.969544-	1.061674
75.000000	464.788196	.730004-	136.886780	13.945162-	.581223
90.000000	299.438036	.845108-	147.683539	10.321261-	.336022
105.000000	201.056561	.913593-	156.006783	7.607676-	.205748
120.000000	143.074308	.953956-	162.545721	5.511223-	.134745
135.000000	109.181873	.977549-	167.836241	3.831483-	.095658
150.000000	89.885050	.990982-	172.299525	2.422236-	.074416
165.000000	79.983246	.997875-	176.263992	1.174391-	.063874
180.000000	76.929704	1.000000-	180.000000		.060724

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3000.000000	.283256	2.372892	7.079498	7.008515	1.599246
θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3000.000000	1.000000		90.000000-	8.723617
15.000000	2612.954144	.735146	42.680371	58.002294-	6.925111
30.000000	1847.935412	.211649	77.780912	37.782728-	3.960209
45.000000	1188.194283	.239809-	103.875358	26.087742-	2.030639
60.000000	743.783591	.543916-	122.950727	18.770613-	1.054623
75.000000	467.667545	.732861-	137.126849	13.793901-	.576022
90.000000	301.081263	.846855-	147.871298	10.207357-	.332546
105.000000	202.076546	.914603-	156.149507	7.522821-	.203450
120.000000	143.764168	.954506-	162.651031	5.449458-	.133171
135.000000	109.693592	.977820-	167.910038	3.788454-	.094516
150.000000	90.299558	.991091-	172.346279	2.395020-	.073532
165.000000	80.346927	.997902-	176.287827	1.160812-	.063096
180.000000	77.280062	1.000000-	180.000000		.059983

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3050.000000	.278523	2.392968	7.180823	7.110852	1.607499
θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3050.000000	1.000000		90.000000-	8.830198
15.000000	2652.213963	.732343	42.916773	57.712664-	6.987076
30.000000	1869.731619	.205842	78.121134	37.471955-	3.970267
45.000000	1198.917701	.245523-	104.212830	25.834724-	2.024663
60.000000	749.116432	.548177-	123.242134	18.575635-	1.047655
75.000000	470.482251	.735659-	137.363022	13.645792-	.570908
90.000000	302.683040	.848564-	148.055905	10.095802-	.329140
105.000000	203.069885	.915590-	156.289767	7.439857-	.201201
120.000000	144.436263	.955042-	162.754335	5.389011-	.131641
135.000000	110.191989	.978084-	167.982518	3.746284-	.093402
150.000000	90.702222	.991198-	172.392402	2.368378-	.072658
165.000000	80.701726	.997927-	176.310115	1.147920-	.062309
180.000000	77.620057	1.000000-	180.000000		.059259

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3100.000000	.273946	2.412877	7.282148	7.213160	1.615711
θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3100.000000	1.000000		90.000000-	8.936787
15.000000	2691.343508	.729549	43.151399	57.424981-	7.048715
30.000000	1891.317117	.200090	78.457747	37.165480-	3.979951
45.000000	1209.479757	.251153-	104.545833	25.586232-	2.018641
60.000000	754.347621	.552360-	123.529186	18.384496-	1.040763
75.000000	473.235768	.738400-	137.595357	13.500719-	.565882
90.000000	304.251262	.850235-	148.237303	9.986654-	.325801
105.000000	204.039044	.916555-	156.427620	7.358668-	.199003
120.000000	145.091580	.955567-	162.856092	5.329825-	.130138
135.000000	110.677062	.978343-	168.054023	3.705031-	.092307
150.000000	91.095018	.991302-	172.437494	2.342366-	.071802
165.000000	81.048136	.997951-	176.331544	1.135439-	.061513
180.000000	77.951663	1.000000-	180.000000		.058552

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3150.000000	.269516	2.432627	7.383473	7.315440	1.623883

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3150.000000	1.000000		90.000000-	9.043372
15.000000	2730.346727	.726763	43.384250	57.139018-	7.109755
30.000000	1912.697829	.194392	78.790692	36.863245-	3.989264
45.000000	1219.886372	.256698-	104.874253	25.342267-	2.012572
60.000000	759.484064	.556466-	123.811826	18.197139-	1.033944
75.000000	475.935497	.741084-	137.823910	13.358740-	.560940
90.000000	305.784941	.851869-	148.415608	9.879797-	.322532
105.000000	204.987971	.917498-	156.563010	7.279199-	.196849
120.000000	145.732093	.956079-	162.955844	5.272013-	.128670
135.000000	111.150785	.978595-	168.123981	3.664752-	.091242
150.000000	91.475970	.991405-	172.482471	2.316697-	.070957
165.000000	81.384184	.997976-	176.354119	1.122825-	.060929
180.000000	78.274881	1.000000-	180.000000		.057862

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3200.000000	.265226	2.452219	7.484798	7.417695	1.632015

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3200.000000	1.000000		90.000000-	9.149959
15.000000	2769.223620	.723987	43.615266	56.854831-	7.170456
30.000000	1933.873755	.188748	79.120200	36.565192-	3.998243
45.000000	1230.136067	.262163-	105.198547	25.102427-	2.006463
60.000000	764.523296	.560498-	124.090398	18.013449-	1.027198
75.000000	478.577492	.743714-	138.048796	13.219568-	.556062
90.000000	307.282598	.853469-	148.591105	9.775175-	.318323
105.000000	205.913211	.918420-	156.696223	7.201449-	.194744
120.000000	146.356816	.956580-	163.054049	5.215405-	.127235
135.000000	111.610691	.978843-	168.193194	3.625218-	.090190
150.000000	91.849028	.991505-	172.526474	2.291659-	.070128
165.000000	81.713323	.997999-	176.374917	1.110793-	.060085
180.000000	78.590203	1.000000-	180.000000		.057187

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3250.000000	.261071	2.471657	7.586123	7.519924	1.640108

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_S/d\Omega_L$
	3250.000000	1.000000		90.000000-	9.255544
15.000000	2807.973200	.721220	43.844678	56.572592-	7.230720
30.000000	1954.851802	.183159	79.446099	36.271322-	4.006844
45.000000	1240.237723	.267547-	105.518429	24.866998-	2.000319
60.000000	769.474198	.564456-	124.364615	17.833368-	1.020531
75.000000	481.166192	.746291-	138.270129	13.083262-	.551304
90.000000	308.749166	.855034-	148.763565	9.672738-	.316190
105.000000	206.817727	.919322-	156.827201	7.125303-	.192032
120.000000	146.967721	.957069-	163.150478	5.160000-	.125033
135.000000	112.061716	.979084-	168.260860	3.586658-	.089156
150.000000	92.211722	.991603-	172.569675	2.267136-	.069314
165.000000	82.035060	.998022-	176.395429	1.099104-	.059472
180.000000	78.897630	1.000000-	180.000000		.056539

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3300.000000	.257043	2.490947	7.687448	7.622129	1.648162

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_S/d\Omega_L$
	3300.000000	1.000000		90.000000-	9.363123
15.000000	2846.599908	.718462	44.072315	56.292187-	7.290517
30.000000	1975.630984	.177620	79.768789	35.981463-	4.015[illegible]
45.000000	1250.191341	.272854-	105.834243	24.635523-	1.994141
60.000000	774.334797	.568345-	124.634994	17.656668-	1.013[illegible]
75.000000	483.703079	.748817-	138.488082	13.949705-	.546[illegible]
90.000000	310.185140	.856566-	148.933275	9.572405-	.318[illegible]
105.000000	207.702997	.920204-	156.956002	7.050761-	.190[illegible]
120.000000	147.563823	.957548-	163.245417	5.105741-	.124[illegible]
135.000000	112.503364	.979319-	168.327266	3.548849-	.083[illegible]
150.000000	92.558435	.991693-	172.611645	2.243244-	.069[illegible]
165.000000	[illegible]	.998045-	176.411273	1.087015-	.0[illegible]
180.000000	[illegible]	1.000000-	[illegible]		.0[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3350.000000	.253135	2.510104	7.788772	7.724310	1.656179

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3350.000000	1.000000		90.000000-	9.469707
15.000000	2885.121015	.715713	44.298289	56.013615-	7.350040
30.000000	1996.233013	.172135	80.087983	35.695614-	4.023085
45.000000	1260.014191	.278083-	106.145932	24.408116-	1.987930
60.000000	779.120389	.572162-	124.901248	17.483348-	1.007410
75.000000	486.199502	.751291-	138.702369	12.818784-	.541986
90.000000	311.596934	.858065-	149.100063	9.474258-	.310074
105.000000	208.575438	.921065-	157.082339	6.977881-	.188688
120.000000	148.153510	.958015-	163.338465	5.052685-	.123122
135.000000	112.940077	.979549-	168.392583	3.511887-	.087219
150.000000	92.922307	.991790-	172.653098	2.219924-	.067797
165.000000	82.657808	.998067-	176.436682	1.075957-	.058210
180.000000	79.496692	1.000000-	180.000000		.055257

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3400.000000	.249345	2.529105	7.890097	7.826469	1.664158

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3400.000000	1.000000		90.000000-	9.576301
15.000000	2923.500005	.712972	44.522717	55.736876-	7.408927
30.000000	2016.627789	.166698	80.404027	35.413662-	4.030721
45.000000	1269.685055	.283239-	106.453668	24.184606-	1.9[illegible]
60.000000	783.812224	.575915-	125.163834	17.313295-	1.0[illegible]
75.000000	488.639178	.753719-	138.913618	12.690442-	.53[illegible]
90.000000	312.974186	.859534-	149.264330	9.277944-	.3[illegible]
105.000000	209.423699	.921910-	157.207015	6.996261-	.1[illegible]
120.000000	148.725432	.958473-	163.430253	5.000661-	.12[illegible]
135.000000	113.361494	.979775-	168.457156	3.475562-	.08[illegible]
150.000000	93.262302	.991882-	172.694293	2.196892-	.06[illegible]
165.000000	82.959807	.998038-	176.456162	1.064899-	.05[illegible]
180.000000	79.784074	1.000000-	180.000000		.05[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3450.000000	.245665	2.547977	7.991422	7.928608	1.672100

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	3450.000000	1.000000		90.000000-	9.682876
15.000000	2961.769446	.710240	44.745540	55.461856-	7.467548
30.000000	2036.843931	.161313	80.716805	35.135548-	4.038052
45.000000	1279.228112	.288320-	106.757508	23.964934-	1.975437
60.000000	788.428558	.579601-	125.422582	17.146449-	.994576
75.000000	491.035921	.756098-	139.121487	12.564620-	.532967
90.000000	314.325778	.860972-	149.425904	9.283577-	.304199
105.000000	210.255675	.922736-	157.329456	6.836245-	.184856
120.000000	149.287485	.958920-	163.520322	4.949725-	.120524
135.000000	113.776989	.979995-	168.520296	3.440038-	.085339
150.000000	93.599336	.991970-	172.734171	2.174489-	.066321
165.000000	83.255391	.998109-	176.475700	1.054013-	.056904
180.000000	80.068121	1.000000-	180.000000		.054041

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3500.000000	.242094	2.566701	8.092747	8.030725	1.680005

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	3500.000000	1.000000		90.000000-	9.789470
15.000000	2999.905653	.707518	44.966587	55.188727-	7.525739
30.000000	2056.865156	.155977	81.026488	34.861273-	4.045070
45.000000	1288.624611	.293332-	107.057623	23.748928-	1.969160
60.000000	792.955577	.583226-	125.677892	16.982583-	.985233
75.000000	493.380358	.758434-	139.326434	12.441205-	.526560
90.000000	315.645294	.862383-	149.585301	9.190987-	.301341
105.000000	211.066926	.923546-	157.450235	6.757548-	.182[illegible]
120.000000	149.833747	.959359-	163.609188	4.899705-	.119[illegible]
135.000000	114.179653	.980211-	168.582576	3.405260-	.084[illegible]
150.000000	93.924528	.992057-	172.773763	2.152487-	.065[illegible]
165.000000	83.542585	.998129-	176.474456	1.0[illegible]3470-	.05[illegible]
180.000000	80.343479	1.000000-	180.000000		.05[illegible]

E	λ^2	η_B	γ_L	η_L	γ_0
3550.000000	.238624	2.585299	8.194072	8.132823	1.687874

θ_K	E_K	$\cos \chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3550.000000	1.000000		90.000000-	9.896045
15.000000	3037.926390	.704804	45.186145	54.917374-	7.583469
30.000000	2076.707747	.150690	81.333021	34.590665-	4.051789
45.000000	1297.897252	.298272-	107.353899	23.536590-	1.962858
60.000000	797.414498	.586786-	125.929363	16.821811-	.982028
75.000000	495.684825	.760724-	139.528115	12.320196-	.524235
90.000000	316.944086	.863763-	149.741833	9.100346-	.298538
105.000000	211.865841	.924337-	157.568608	6.700283-	.181177
120.000000	150.371127	.959787-	163.696392	4.850832-	.118028
135.000000	114.576397	.980422-	168.643825	3.371111-	.083531
150.000000	94.244784	.992142-	172.812494	2.130944-	.064888
165.000000	83.821885	.998151-	176.515177	1.032527-	.055541
180.000000	80.613396	1.000000-	180.000000		.052877

E	λ^2	η_B	γ_L	η_L	γ_0
3600.000000	.235252	2.603758	8.295397	8.234902	1.695707

θ_K	E_K	$\cos \chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3600.000000	1.000000		90.000000-	10.002633
15.000000	3075.818826	.702099	45.404212	54.647912-	7.640757
30.000000	2096.364797	.145452	81.636459	34.323724-	4.058210
45.000000	1307.033697	.303145-	107.646681	23.327804-	1.956549
60.000000	801.789036	.590288-	126.177511	16.664019-	.975336
75.000000	497.941426	.762972-	139.726989	12.201480-	.510978
90.000000	318.209322	.865118-	149.896245	9.011365-	.295784
105.000000	212.643043	.925114-	157.685606	6.634278-	.179331
120.000000	150.893210	.960203-	163.782508	4.302318-	.110321
135.000000	114.960803	.980629-	168.704272	3.337631-	.082333
150.000000	94.556159	.992225-	172.891055	2.109687-	.064201
165.000000	84.098717	.998159-	176.592251	1.022729-	.055099
180.000000	81.875013	1.000000-	180.000000		.052312

E	λ^2	η_B	γ_L	η_L	γ_0
3650.000000	.231973	2.622095	8.396722	8.338952	1.7[illegible]

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_0/d\Omega_L$
	3650.000000	1.000000		90.000000-	10.[illegible]
15.000000	3113.597273	.699401	45.620962	54.379997-	7.[illegible]
30.000000	2115.847655	.140259	81.937147	34.060335-	4.[illegible]
45.000000	1316.051217	.307950-	107.935853	23.122514-	1.[illegible]
60.000000	806.095477	.593731-	126.422336	16.508975-	.[illegible]
75.000000	500.159536	.765178-	139.922883	12.084940-	.[illegible]
90.000000	319.455313	.866445-	150.048194	8.924161-	.[illegible]
105.000000	213.408402	.925874-	157.800542	6.569591-	.[illegible]
120.000000	151.408384	.960619-	163.866962	4.755778-	.[illegible]
135.000000	115.342249	.980831-	168.763459	3.304935-	.[illegible]
150.000000	94.862105	.992308-	172.888984	2.088589-	.[illegible]
165.000000	84.366173	.998190-	176.552133	1.012187-	.[illegible]
180.000000	81.135479	1.000000-	180.000000		.[illegible]

E	λ^2	η_B	γ_L	η_L	γ_0
3700.000000	.228785	2.640304	8.498047	8.439004	1.711[illegible]

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_0/d\Omega_L$
	3700.000000	1.000000		90.000000-	10.[illegible]
15.000000	3151.248407	.696711	45.835165	54.113916-	7.[illegible]
30.000000	2135.152373	.135115	82.234627	33.800556-	4.[illegible]
45.000000	1324.940931	.312689-	108.221415	22.920603-	1.[illegible]
60.000000	810.328392	.597115-	126.663656	16.355790-	.[illegible]
75.000000	502.335703	.767343-	140.115970	11.070635-	.[illegible]
90.000000	320.676631	.867746-	150.197793	8.[illegible]	.[illegible]
105.000000	214.157477	.926619-	157.913815	6.[illegible]	.[illegible]
120.000000	151.912208	.961022-	163.990327	4.[illegible]	.[illegible]
135.000000	115.712346	.981029-	168.821736	3.[illegible]	.[illegible]
150.000000	95.160650	.992388-	172.[illegible]	[illegible]	.[illegible]
165.000000	84.630660	.998208-	[illegible]	[illegible]	.[illegible]
180.000000	81.333131	1.000000-	[illegible]		.[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3750.000000	.225681	2.658398	8.599372	8.541030	1.718999

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3750.000000	1.000000		90.000000-	10.322392
15.000000	3188.795420	.694031	46.049821	53.849668-	7.810658
30.000000	2154.291782	.130017	82.529357	33.544215-	4.075842
45.000000	1333.717642	.317363-	108.503596	22.722016-	1.937540
60.000000	814.496170	.600444-	126.901787	16.207257-	.957744
75.000000	504.475353	.769468-	140.306192	11.858392-	.507588
90.000000	321.875743	.869022-	150.345272	8.754623-	.287824
105.000000	214.892735	.927349-	158.025370	6.443884-	.174235
120.000000	152.408631	.961416-	164.032145	4.664449-	.113345
135.000000	116.077507	.981223-	168.879311	3.241336-	.080149
150.000000	95.457220	.992466-	172.962323	2.048667-	.062233
165.000000	84.890723	.998227-	176.587656	.992706-	.053178
180.000000	81.637329	1.000000-	180.000000		.050692

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3800.000000	.222659	2.676374	8.700697	8.643039	1.726695

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3800.000000	1.000000		90.000000-	10.428972
15.000000	3226.228938	.691361	46.261987	53.587310-	7.866269
30.000000	2173.261440	.124964	82.821279	33.291254-	4.081196
45.000000	1342.375923	.321974-	108.782455	22.526638-	1.931184
60.000000	818.597825	.603717-	127.136700	16.060408-	.951837
75.000000	506.578487	.771554-	140.493721	11.748270-	.503587
90.000000	323.053143	.870273-	150.490517	8.672231-	.285265
105.000000	215.616150	.928064-	158.135034	6.382807-	.172587
120.000000	152.892717	.961803-	164.112990	4.619987-	.112227
135.000000	116.436748	.981413-	168.935919	3.210454-	.079342
150.000000	95.745402	.992543-	172.998477	2.029072-	.061595
165.000000	85.146830	.998244-	176.604100	.983539-	.052685
180.000000	81.832067	1.000000-	180.000000		.050175

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3850.000000	.219720	2.694217	8.802022	8.745032	1.734357

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3850.000000	1.000000		90.000000-	10.535561
15.000000	3263.522805	.688697	46.472836	53.326614-	7.921770
30.000000	2192.046049	.119955	83.110450	33.041674-	4.086282
45.000000	1350.907877	.326524-	109.057990	22.334410-	1.924829
60.000000	822.622006	.606939-	127.368576	15.916137-	.945999
75.000000	508.635236	.773604-	140.678729	11.640096-	.499646
90.000000	324.201428	.871502-	150.633699	8.591330-	.282749
105.000000	216.317360	.928767-	158.243495	6.322818-	.170961
120.000000	153.365453	.962182-	164.192516	4.576500-	.111139
135.000000	116.784638	.981599-	168.991553	3.180087-	.078553
150.000000	96.026182	.992618-	173.033885	2.009878-	.060987
165.000000	85.392574	.998262-	176.621575	.974142-	.052187
180.000000	82.117961	1.000000-	180.000000		.049667

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3900.000000	.216855	2.711954	8.903347	8.847010	1.741986

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	3900.000000	1.000000		90.000000-	10.642138
15.000000	3300.710578	.686042	46.682309	53.067637-	7.976720
30.000000	2210.677192	.114993	83.396700	32.795416-	4.091110
45.000000	1359.333737	.331012-	109.330260	22.145334-	1.918471
60.000000	826.587464	.610108-	127.597415	15.774273-	.940219
75.000000	510.659909	.775617-	140.861102	11.533869-	.495766
90.000000	325.334416	.872706-	150.774704	8.512032-	.280281
105.000000	217.010180	.929455-	158.350066	6.264090-	.169371
120.000000	153.830294	.962554-	164.270897	4.533757-	.110065
135.000000	117.127594	.981782-	169.046557	3.150351-	.077786
150.000000	96.301533	.992692-	173.063903	1.990971-	.060365
165.000000	85.635850	.998280-	176.638649	.964975-	.051684
180.000000	82.351862	1.000000-	180.000000		.049169

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
3950.000000	.214066	2.729565	9.004672	8.948972	1.749582

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	3950.000000	1.000000		90.000000-	10.748726
15.000000	3337.765610	.683395	46.890407	52.810494-	8.031353
30.000000	2229.130689	.110073	83.680429	32.552368-	4.095706
45.000000	1367.636231	.335443-	109.599607	21.959180-	1.912110
60.000000	830.483839	.613227-	127.823332	15.634929-	.934507
75.000000	512.643132	.777596-	141.041068	11.429476-	.491942
90.000000	326.438784	.873890-	150.913933	8.434053-	.277851
105.000000	217.687210	.930130-	158.455146	6.206336-	.167809
120.000000	154.282799	.962919-	164.348303	4.491702-	.109013
135.000000	117.461668	.981961-	169.100759	3.121130-	.077029
150.000000	96.571950	.992764-	173.103156	1.972579-	.059767
165.000000	85.874686	.998296-	176.654406	.956266-	.051162
180.000000	82.578855	1.000000-	180.000000		.048681

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4000.000000	.211345	2.747081	9.105997	9.050921	1.757147

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	4000.000000	1.000000		90.000000-	10.855311
15.000000	3374.726884	.680756	47.097188	52.554955-	8.085661
30.000000	2247.438121	.105197	83.961407	32.312528-	4.100049
45.000000	1375.842994	.339814-	109.865632	21.776006-	1.905749
60.000000	834.326919	.616296-	128.046213	15.497992-	.923856
75.000000	514.601189	.779538-	141.218341	11.227031-	.488180
90.000000	327.531308	.875050-	151.050984	8.357506-	.275465
105.000000	218.355850	.930792-	158.558622	6.149613-	.166276
120.000000	154.732836	.963276-	164.424220	4.450621-	.107981
135.000000	117.793274	.982136-	169.153987	3.092482-	.076230
150.000000	96.540393	.992834-	173.136674	1.934530-	.059192
165.000000	86.109574	.998313-	176.671135	.947385-	.050636
180.000000	82.804367	1.000000-	180.000000		.048203

E	π^2	η_B	γ_L	η_L	γ_0
4050.000000	.208693	2.764480	9.207322	9.152856	1.764680

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4050.000000	1.000000		90.000000-	10.961899
15.000000	3411.565287	.678127	47.302479	52.301249-	8.139403
30.000000	2265.576296	.100362	84.239922	32.075781-	4.104178
45.000000	1383.938728	.344128-	110.128677	21.595753-	1.899393
60.000000	838.104862	.619317-	128.266401	15.363290-	.923263
75.000000	516.522235	.781447-	141.393322	11.226363-	.484470
90.000000	328.600146	.876190-	151.186202	8.282334-	.273117
105.000000	219.008700	.931442-	158.660781	6.093979-	.164767
120.000000	155.172510	.963626-	164.499106	4.410170-	.106971
135.000000	118.117478	.982308-	169.206470	3.064292-	.075554
150.000000	97.099954	.992904-	173.170307	1.936654-	.058608
165.000000	86.339527	.998329-	176.687007	.938848-	.050365
180.000000	83.024451	1.000000-	180.000000		.047735

E	π^2	η_B	γ_L	η_L	γ_0
4100.000000	.206107	2.781770	9.308647	9.254777	1.772181

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4100.000000	1.000000		90.000000-	11.068483
15.000000	3448.284271	.675505	47.506566	52.049262-	8.192879
30.000000	2283.557550	.095571	84.515801	31.842244-	4.108069
45.000000	1391.926394	.348386-	110.388742	21.418308-	1.893039
60.000000	841.822110	.622291-	128.483724	15.230937-	.917734
75.000000	518.408246	.783324-	141.565954	11.127413-	.480817
90.000000	329.649740	.877309-	151.319472	8.208479-	.270809
105.000000	219.648720	.932080-	158.761507	6.039261-	.163290
120.000000	155.602809	.963970-	164.573018	4.370464-	.105979
135.000000	118.431320	.982478-	169.258609	3.036619-	.074840
150.000000	97.355074	.992972-	173.203137	1.919179-	.058050
165.000000	86.564545	.998345-	176.702878	.930368-	.049816
180.000000	83.239600	1.000000-	180.000000		.047275

E	π^2	η_B	γ_L	η_L	γ_0
4150.000000	.203583	2.798961	9.409972	9.356686	1.779652

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4150.000000	1.000000		90.000000-	11.175074
15.000000	3484.896175	.672891	47.709279	51.798880-	8.246058
30.000000	2301.386324	.090820	84.789160	31.611571-	4.111742
45.000000	1399.815861	.352589-	110.645828	21.243613-	1.886691
60.000000	845.487544	.625218-	128.698296	15.100761-	.912265
75.000000	520.262182	.785169-	141.736409	11.030125-	.477215
90.000000	330.681568	.878408-	151.450966	8.135943-	.268543
105.000000	220.279858	.932706-	158.860686	5.985575-	.161837
120.000000	156.024225	.964308-	164.645955	4.331446-	.105005
135.000000	118.743681	.982643-	169.309373	3.009518-	.074136
150.000000	97.605753	.993039-	173.235681	1.901933-	.057516
165.000000	86.784629	.998361-	176.718921	.921946-	.049275
180.000000	83.451788	1.000000-	180.000000		.046824

E	π^2	η_B	γ_L	η_L	γ_0
4200.000000	.201121	2.816039	9.511297	9.458581	1.787091

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4200.000000	1.000000		90.000000-	11.281651
15.000000	3521.380271	.670285	47.910845	51.550388-	8.298779
30.000000	2319.054229	.086111	85.060054	31.383935-	4.115191
45.000000	1407.598740	.356738-	110.900107	21.071669-	1.880352
60.000000	849.090309	.628100-	128.910176	14.972705-	.906856
75.000000	522.085030	.786982-	141.904401	10.934613-	.473671
90.000000	331.692178	.879488-	151.580741	8.064667-	.266309
105.000000	220.896191	.933321-	158.958604	5.932806-	.160407
120.000000	156.437746	.964639-	164.717804	4.293172-	.104050
135.000000	119.047654	.982806-	169.359793	2.982751-	.073444
150.000000	97.850510	.993105-	173.267824	1.835031-	.056976
165.000000	86.998792	.998377-	176.734964	.913638-	.048703
180.000000	83.658549	1.000000-	180.000000		.046382

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4250.000000	.198716	2.833025	9.612622	9.560465	1.794501

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4250.000000	1.000000		90.000000-	11.388242
15.000000	3557.768636	.667688	48.111037	51.303443-	8.351139
30.000000	2336.580018	.081443	85.328427	31.159278-	4.118436
45.000000	1415.286875	.360835-	111.151578	20.902302-	1.874021
60.000000	852.642246	.630939-	129.119535	14.846768-	.901499
75.000000	523.879751	.788765-	142.070272	10.840705-	.470172
90.000000	332.689464	.880548-	151.708625	7.994652-	.264115
105.000000	221.504630	.933924-	159.055090	5.880896-	.159006
120.000000	156.846333	.964964-	164.788564	4.255586-	.103107
135.000000	119.347679	.982965-	169.409297	2.956634-	.072775
150.000000	98.094280	.993168-	173.298649	1.868644-	.056461
165.000000	87.212461	.998392-	176.750090	.905617-	.048404
180.000000	83.862842	1.000000-	180.000000		.045948

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4300.000000	.196370	2.849903	9.713947	9.662337	1.801880

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4300.000000	1.000000		90.000000-	11.494825
15.000000	3594.027221	.665098	48.310082	51.058274-	8.403099
30.000000	2353.945925	.076814	85.594509	30.937429-	4.121478
45.000000	1422.872369	.364880-	111.400299	20.735457-	1.867694
60.000000	856.135956	.633735-	129.326315	14.722895-	.896205
75.000000	525.640916	.790519-	142.234138	10.748344-	.466725
90.000000	333.664545	.881591-	151.834962	7.925725-	.261955
105.000000	222.098758	.934517-	159.150373	5.830017-	.157627
120.000000	157.242089	.965284-	164.858637	4.218459-	.102184
135.000000	119.639808	.980122-	169.459285	2.930908-	.072109
150.000000	98.328874	.987232-	173.330105	1.852200-	.055902
165.000000	87.410715	.99[illegible]	176.7[illegible]	.897710-	.047835
180.000000	[illegible]	.99[illegible]-	18[illegible]		.045521

E	β^2	η_B	γ_L	η_L	γ_0
4350.000000	.194077	2.866684	9.815272	9.764198	1.809230

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4350.000000	1.000000		90.000000-	11.601408
15.000000	3630.179218	.662517	48.507810	50.814825-	8.454755
30.000000	2371.166261	.072225	85.858184	30.718444-	4.124308
45.000000	1430.365093	.368873-	111.646270	20.571247-	1.861380
60.000000	859.578345	.636488-	129.530575	14.601084-	.690970
75.000000	527.372473	.792244-	142.395769	10.657473-	.463329
90.000000	334.623834	.882615-	151.959523	7.858058-	.259329
105.000000	222.682030	.935099-	159.244224	5.779940-	.156275
120.000000	157.634885	.965597-	164.927392	4.182190-	.101275
135.000000	119.927003	.983276-	169.506643	2.905583-	.071455
150.000000	98.562575	.993293-	173.360242	1.836387-	.055406
165.000000	87.623514	.998422-	176.780686	.889803-	.047516
180.000000	84.256625	1.000000-	180.000000		.045103

E	β^2	η_B	γ_L	η_L	γ_0
4400.000000	.191836	2.883380	9.916597	9.866047	1.816551

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4400.000000	1.000000		90.000000-	11.707989
15.000000	3666.229562	.659942	48.704449	50.572922-	8.506157
30.000000	2388.252375	.067675	86.119510	30.502267-	4.126949
45.000000	1437.774421	.372816-	111.889491	20.409501-	1.855078
60.000000	862.979284	.639199-	129.732199	14.481164-	.685788
75.000000	529.083305	.793940-	142.555338	10.568206-	.459981
90.000000	335.572761	.883621-	152.082423	7.791538-	.257741
105.000000	223.259873	.935671-	159.336928	5.730723-	.154942
120.000000	158.022746	.965905-	164.995459	4.146438-	.100387
135.000000	120.213704	.983427-	169.554255	2.880659-	.070814
150.000000	98.793022	.993354-	173.390723	1.820573-	.054901
165.000000	87.826821	.998436-	176.795010	.882297-	.046925
180.000000	84.452035	1.000000-	180.000000		.044693

E	$\vec{\pi}^2$	η_B	γ_L	η_L	γ_0
4450.000000	.189647	2.899974	10.017922	9.967886	1.823843

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4450.000000	1.000000		90.000000-	11.814570
15.000000	3702.167396	.657379	48.899599	50.332853-	8.557022
30.000000	2405.184035	.063163	86.378544	30.288783-	4.129400
45.000000	1445.081603	.376711-	112.130190	20.250104-	1.848786
60.000000	866.323474	.641871-	129.931588	14.363192-	.880659
75.000000	530.763542	.795608-	142.712787	10.480372-	.456680
90.000000	336.501457	.824810-	152.203603	7.726106-	.255686
105.000000	223.820861	.836232-	159.428200	5.682308-	.153638
120.000000	158.400244	.966207-	165.062361	4.111315-	.099514
135.000000	120.492510	.983575-	169.601066	2.856251-	.070188
150.000000	99.017053	.993414-	173.420632	1.805046-	.054425
165.000000	88.025192	.998450-	176.809391	.874791-	.046599
180.000000	84.641031	1.000000-	180.000000		.044290

E	$\vec{\pi}^2$	η_B	γ_L	η_L	γ_0
5000.000000	.187508	2.916467	10.119247	10.069714	1.831106

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5000.000000	1.000000		90.000000-	11.921158
15.000000	3757.976981	.654800	49.093946	50.094216-	8.607556
30.000000	2421.469531	.058600	85.625384	30.078049-	4.131657
45.000000	1452.949531	.380358-	112.361369	20.093171-	1.842513
60.000000	869.913304	.644004-	130.128671	14.247054-	.875589
75.000000	532.411231	.797251-	143.368409	10.503970-	.454424
90.000000	337.411814	.828781-	152.323428	7.651763-	.253660
105.000000	224.373053	.836[illegible]	159.511613	[illegible]	.152346
120.000000	159.271307	[illegible]	165.112167	.075023-	.098651
135.000000	120.7[illegible]	[illegible]	[illegible]	.0[illegible]-	.069576
[illegible]	[illegible]	[illegible]	[illegible]	.07[illegible]-	.053942
[illegible]	[illegible]	[illegible]	[illegible]	.0[illegible]-	.046258
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4550.000000	.185417	2.932870	10.220572	10.171533	1.838341

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4550.000000	1.000000		90.000000-	12.027752
15.000000	3773.681851	.652271	49.286918	49.857469-	8.657780
30.000000	2438.611630	.054252	86.890024	29.869779-	4.133746
45.000000	1459.419629	.384359-	112.604026	19.938473-	1.836256
60.000000	872.852467	.647100-	130.323376	14.132691-	.870570
75.000000	534.031740	.798868-	143.022241	10.308885-	.450214
90.000000	338.306046	.886540-	152.441725	7.598451-	.251667
105.000000	224.921853	.937328-	159.607593	5.587885-	.151082
120.000000	159.132048	.966797-	165.194104	4.042732-	.097806
135.000000	121.030383	.983864-	169.693312	2.808524-	.068966
150.000000	99.448832	.993531-	173.479245	1.774851-	.053450
165.000000	88.404664	.998478-	176.838382	.860009-	.045640
180.000000	85.006686	1.000000-	180.000000		.043504

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4600.000000	.183369	2.949198	10.321897	10.273342	1.845549

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4600.000000	1.000000		90.000000-	12.134333
15.000000	3809.294001	.649728	49.478859	49.622156-	8.707800
30.000000	2455.132237	.049853	87.142355	29.664259-	4.135633
45.000000	1466.470704	.388111-	112.837105	19.786066-	1.830002
60.000000	876.057501	.649656-	130.515833	14.020220-	.865604
75.000000	535.638451	.800457-	143.173846	10.225291-	.447051
90.000000	339.191317	.887480-	152.558322	7.536228-	.249705
105.000000	225.464167	.937860-	159.695256	5.541934-	.149842
120.000000	159.496223	.967083-	165.258332	4.009444-	.096975
135.000000	121.298333	.984004-	169.738175	2.785377-	.068370
150.000000	99.664969	.993587-	173.507779	1.760183-	.052988
165.000000	88.594647	.998491-	176.851962	.852962-	.045292
180.000000	85.187787	1.000000-	180.000000		.043123

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4650.000000	.181367	2.965434	10.423222	10.375141	1.852729

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4650.000000	1.000000		90.000000-	12.240915
15.000000	3844.798083	.647195	49.669482	49.388561-	8.757160
30.000000	2471.514181	.045491	87.392622	29.461318-	4.137360
45.000000	1473.435424	.391818-	113.067778	19.635836-	1.823771
60.000000	879.215657	.652175-	130.705883	13.909467-	.860689
75.000000	537.217036	.802022-	143.323732	10.143014-	.443929
90.000000	340.065731	.888404-	152.673429	7.474979-	.247776
105.000000	225.995132	.938384-	159.781944	5.496670-	.148617
120.000000	159.851022	.967365-	165.322045	3.976556-	.096156
135.000000	121.559868	.984142-	169.782694	2.762516-	.067790
150.000000	99.875183	.993643-	173.536140	1.745687-	.052519
165.000000	88.781669	.998504-	176.865598	.845972-	.044940
180.000000	85.365927	1.000000-	180.000000		.042748

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4700.000000	.179410	2.981566	10.524547	10.476931	1.859881

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4700.000000	1.000000		90.000000-	12.347500
15.000000	3880.165475	.644668	49.859188	49.156627-	8.806351
30.000000	2487.742165	.041164	87.640771	29.260840-	4.138919
45.000000	1480.302438	.395481-	113.296045	19.487899-	1.817559
60.000000	882.319038	.654659-	130.893870	13.800376-	.855828
75.000000	538.761571	.803564-	143.471898	10.061998-	.440848
90.000000	340.915472	.889314-	152.787218	7.414704-	.245874
105.000000	226.509813	.938900-	159.867716	5.452037-	.147412
120.000000	160.194471	.967642-	165.384641	3.944241-	.095356
135.000000	121.811533	.984278-	169.826754	2.739998-	.067213
150.000000	100.080463	.993697-	173.563528	1.731593-	.052080
165.000000	88.958822	.998517-	176.876234	.859039-	.044585
180.000000	85.535984	1.000000-	180.000000		.042378

E	χ^2	η_B	γ_L	η_L	γ_0
4750.000000	.177493	2.997620	10.625872	10.578712	1.867006

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4750.000000	1.000000		90.000000-	12.454080
15.000000	3915.436643	.642150	50.047577	48.926298-	8.855241
30.000000	2503.843329	.036873	87.886799	29.062826-	4.140298
45.000000	1487.090498	.399101-	113.522076	19.342024-	1.811365
60.000000	885.381462	.657108-	131.079795	13.693003-	.851018
75.000000	540.287355	.805081-	143.618175	9.982242-	.437814
90.000000	341.753864	.890210-	152.899690	7.355403-	.244001
105.000000	227.018572	.939407-	159.952285	5.408263-	.146226
120.000000	160.536933	.967914-	165.446721	3.912442-	.094567
135.000000	122.061225	.984412-	169.870184	2.717882-	.066642
150.000000	100.281302	.993751-	173.591431	1.717498-	.051634
165.000000	89.138442	.998529-	176.891954	.832450-	.044215
180.000000	85.706909	1.000000-	180.000000		.042015

E	χ^2	η_B	γ_L	η_L	γ_0
4800.000000	.175617	3.013591	10.727197	10.680484	1.874105

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4800.000000	1.000000		90.000000-	12.560673
15.000000	3950.603690	.639639	50.234991	48.697574-	8.903744
30.000000	2519.817181	.032618	88.130764	28.867332-	4.141522
45.000000	1493.803059	.402677-	113.745702	19.198211-	1.805191
60.000000	888.400461	.659523-	131.263600	13.587178-	.846255
75.000000	541.790439	.806575-	143.762732	9.903690-	.434817
90.000000	342.581399	.891091-	153.010786	7.296961-	.242155
105.000000	227.520422	.939906-	160.035879	5.365119-	.145061
120.000000	160.871994	.968182-	165.507913	3.881158-	.093791
135.000000	122.308943	.984543-	169.912984	2.696110-	.066085
150.000000	100.479674	.993804-	173.618589	1.703747-	.051219
165.000000	89.311647	.998542-	176.905705	.825632-	.043854
180.000000	85.875179	1.000000-	180.000000		.041659

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4850.000000	.173780	3.029474	10.828522	10.782248	1.881177

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_e/d\Omega_L$
	4850.000000	1.000000		90.000000-	12.667256
15.000000	3985.656748	.637137	50.421260	48.470453-	8.951845
30.000000	2535.651382	.028396	88.372781	28.674074-	4.142833
45.000000	1500.429757	.406211-	113.967093	19.056404-	1.799020
60.000000	891.376035	.661904-	131.445342	13.483014-	.841546
75.000000	543.266383	.808047-	143.905628	9.826455-	.431850
90.000000	343.391170	.891958-	153.120393	7.239550-	.240335
105.000000	228.011417	.940397-	160.118385	5.322606-	.143911
120.000000	161.199653	.968446-	165.568474	3.850333-	.093028
135.000000	122.549752	.984672-	169.955211	2.674738-	.065545
150.000000	100.671631	.993357-	173.645804	1.690110-	.050750
165.000000	89.483372	.998554-	176.918482	.819157-	.043478
180.000000	86.038022	1.000000-	180.000000		.041308

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
4900.000000	.171981	3.045276	10.929847	10.884004	1.888223

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_e/d\Omega_L$
	4900.000000	1.000000		90.000000-	12.773640
15.000000	4020.606178	.634642	50.606440	48.244037-	8.990727
30.000000	2551.361231	.024210	88.612670	28.483279-	4.143508
45.000000	1506.981449	.409703-	114.186249	18.915717-	1.792889
60.000000	894.312133	.664251-	131.625022	13.380340-	.838881
75.000000	544.723576	.809496-	144.046747	9.730309-	.421945
90.000000	344.192058	.892811-	153.228682	7.163000-	.238547
105.000000	228.495503	.940380-	160.193974	5.2[illegible]637-	.142776
120.000000	161.523364	.968709-	165.629177	3.819966-	.092272
135.000000	122.787601	.984799-	169.[illegible]	2.653539-	.064997
150.000000	100.866055	.993907-	173.[illegible]	1.678818-	.050370
165.000000	89.651149	.[illegible]-	176.[illegible]	.812740-	.04[illegible]
180.000000	86.199364	1.000000-	180.000000		.04[illegible]

E	χ^2	η_B	γ_L	η_L	γ_0
4950.000000	.170218	3.061012	11.031172	10.985752	1.895244

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	4950.000000	1.000000		90.000000-	12.880425
15.000000	4055.467773	.632154	50.790703	48.020968-	9.047082
30.000000	2566.956104	.020057	88.850685	28.294776-	4.144274
45.000000	1513.466524	.413154-	114.403171	18.778921-	1.780769
60.000000	897.214182	.666566-	131.802696	13.279271-	.832267
75.000000	546.163498	.810923-	144.186320	9.675366-	.426065
90.000000	344.982584	.893651-	153.335825	7.127251-	.236782
105.000000	228.978602	.941354-	160.280246	5.239699-	.141671
120.000000	161.844607	.968960-	165.687134	3.790173-	.091535
135.000000	123.023475	.984924-	170.038519	2.632798-	.064457
150.000000	101.055051	.993958-	173.698402	1.663640-	.049937
165.000000	89.821393	.998577-	176.943119	.806609-	.042703
180.000000	86.360746	1.000000-	180.000000		.040625

E	χ^2	η_B	γ_L	η_L	γ_0
5000.000000	.168491	3.076653	11.132496	11.087491	1.902239

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5000.000000	1.000000		90.000000-	12.987014
15.000000	4090.196132	.629672	50.973992	47.798431-	9.094446
30.000000	2582.410834	.015938	89.086744	28.108507-	4.144855
45.000000	1519.862775	.416566-	114.618087	18.643015-	1.780669
60.000000	900.068858	.668849-	131.978365	13.179690-	.827699
75.000000	547.574798	.812329-	144.324173	9.601559-	.423225
90.000000	345.756332	.894478-	153.441536	7.072419-	.235045
105.000000	229.444430	.941822-	160.359830	5.199190-	.140574
120.000000	162.157462	.969211-	165.745346	3.760750-	.090807
135.000000	123.254909	.985046-	170.078913	2.612459-	.063953
150.000000	101.239112	.994007-	173.723956	1.650806-	.049535
165.000000	89.980288	.998590-	176.956641	.800078-	.042317
180.000000	86.515693	1.000000-	180.000000		.040291

E	χ^2	η_B	γ_L	η_L	γ_0
5050.000000	.166799	3.092217	11.233821	11.189224	1.909208

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5050.000000	1.000000		90.000000-	13.093592
15.000000	4124.830734	.627201	51.155964	47.577613-	9.141140
30.000000	2597.742198	.011852	89.320855	27.924530-	4.145354
45.000000	1526.190436	.419937-	114.830712	18.509057-	1.774592
60.000000	902.883564	.671102-	132.152258	13.081486-	.823182
75.000000	548.967347	.813715-	144.460594	9.528861-	.420421
90.000000	346.519718	.895292-	153.546044	7.018389-	.233330
105.000000	229.906310	.942282-	160.438497	5.159255-	.139493
120.000000	162.464889	.969458-	165.802929	3.731846-	.090086
135.000000	123.478447	.985168-	170.119536	2.592232-	.063433
150.000000	101.421693	.994056-	173.749853	1.638029-	.049127
165.000000	90.142637	.998601-	176.968501	.794004-	.041916
180.000000	86.669653	1.000000-	180.000000		.039963

E	χ^2	η_B	γ_L	η_L	γ_0
5100.000000	.165141	3.107708	11.335146	11.290949	1.916153

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5100.000000	1.000000		90.000000-	13.200135
15.000000	4159.359255	.624734	51.337243	47.358223-	9.197776
30.000000	2612.956611	.007799	89.553074	27.742789-	4.146330
45.000000	1532.443583	.423271-	115.041389	18.376933-	1.789556
60.000000	905.665208	.573324-	132.324260	12.994713-	.818704
75.000000	550.340158	.815080-	144.505354	9.447241-	.417356
90.000000	347.274221	.890093-	153.649233	6.965210-	.231644
105.000000	230.365230	.942734-	160.515003	5.100008-	.136433
120.000000	162.769848	.969701-	165.859938	3.703312-	.089381
135.000000	123.704946	.985286-	170.150970	2.572435-	.062930
150.000000	101.601805	.994104-	[illegible]	1.674461-	.048710
165.000000	90.301039	.998512-	[illegible]	.780046-	.041787
180.000000	86.871369	[illegible]	[illegible]		[illegible]

E	λ^2	η_B	γ_L	η_L	γ_0
5150.000000	.163514	3.123132	11.436471	11.392667	1.923073

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5150.000000	1.000000		90.000000-	13.306758
15.000000	4193.804848	.622279	51.517156	47.140504-	9.233872
30.000000	2628.056048	.003778	89.783461	27.563108-	4.145880
45.000000	1538.635542	.426565-	115.249831	18.246643-	1.762505
60.000000	908.414284	.675515-	132.494256	12.889430-	.814278
75.000000	551.699152	.816424-	144.728452	9.386710-	.414924
90.000000	348.018361	.896882-	153.751277	6.912850-	.229980
105.000000	230.817241	.943179-	160.592508	5.081333-	.137392
120.000000	163.072834	.969939-	165.915744	3.675352-	.088688
135.000000	123.926511	.985403-	170.198432	2.552928-	.062433
150.000000	101.782907	.994150-	173.799529	1.613219-	.048370
165.000000	90.457465	.998624-	176.993597	.781800-	.041391
180.000000	86.972638	1.000000-	180.000000		.039324

E	λ^2	η_B	γ_L	η_L	γ_0
5200.000000	.161921	3.138457	11.537796	11.494378	1.929968

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5200.000000	1.000000		90.000000-	13.413349
15.000000	4228.103896	.619828	51.696320	46.924269-	9.279744
30.000000	2643.018303	.000210-	90.012071	27.385663-	4.145932
45.000000	1544.739171	.429823-	115.456439	18.118071-	1.756496
60.000000	911.111052	.677579-	132.662649	12.795408-	.809896
75.000000	553.025084	.817751-	144.860347	9.317153-	.412228
90.000000	348.742763	.897660-	153.852232	6.861226-	.228338
105.000000	231.251487	.943519-	160.668539	5.043174-	.136360
120.000000	163.362002	.970175-	165.971436	3.647678-	.088007
135.000000	124.139886	.985518-	170.237164	2.533733-	.061956
150.000000	101.951177	.994197-	173.824453	1.601015-	.047947
165.000000	90.606964	.998633-	177.005629	.775842-	.040981
180.000000	87.116239	1.000000-	180.000000		.039010

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5250.000000	.160357	3.153724	11.639121	11.596082	1.936839

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	5250.000000	1.000000		90.000000-	13.519931
15.000000	4262.319549	.617383	51.874625	46.709467-	9.325281
30.000000	2657.870022	.004168-	90.238905	27.210224-	4.145863
45.000000	1550.784077	.433044-	115.660985	17.991218-	1.750506
60.000000	913.781668	.679813-	132.829150	12.702818-	.805555
75.000000	554.342627	.819057-	144.990580	9.248684-	.409568
90.000000	349.461737	.898426-	153.951984	6.810348-	.226720
105.000000	231.686720	.944051-	160.743482	5.005645-	.135341
120.000000	163.655612	.970406-	166.026153	3.620463-	.087335
135.000000	124.350888	.985632-	170.275724	2.514711-	.061458
150.000000	102.124876	.994242-	173.848574	1.589041-	.047593
165.000000	90.759464	.998645-	177.016630	.770284-	.040567
180.000000	87.261313	1.000000-	180.000000		.038703

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5300.000000	.158823	3.168916	11.740446	11.697780	1.943686

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	5300.000000	1.000000		90.000000-	13.626515
15.000000	4296.437003	.614949	52.051726	46.496270-	9.370533
30.000000	2672.604297	.008094-	90.463848	27.036904-	4.145668
45.000000	1556.760886	.436228-	115.863526	17.866142-	1.744544
60.000000	916.417247	.681919-	132.993875	12.611488-	.801259
75.000000	555.635003	.820346-	145.119553	9.181133-	.406339
90.000000	350.170348	.899180-	154.050533	6.760214-	.225127
105.000000	232.116032	.944476-	160.817394	4.958632-	.134344
120.000000	163.936885	.970635-	166.080641	3.593591-	.086666
135.000000	124.562089	.985743-	170.313539	2.496090-	.060992
150.000000	102.291172	.994288-	173.873039	1.577180-	.047107
165.000000	90.907009	.998656-	177.028770	.764440-	.040430
180.000000	87.402937	1.000000-	180.000000		.038400

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5350.000000	.157318	3.184036	11.841771	11.799472	1.950510

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5350.000000	1.000000		90.000000-	13.733109
15.000000	4330.448363	.612520	52.227968	46.284505-	9.415357
30.000000	2687.225076	.011989-	90.687015	26.865647-	4.145337
45.000000	1562.666637	.439378-	116.064290	17.742669-	1.738605
60.000000	919.016804	.683998-	133.156939	12.521477-	.797007
75.000000	556.911589	.821616-	145.246922	9.114612-	.404346
90.000000	350.866129	.899924-	154.148165	6.710825-	.223553
105.000000	232.537448	.944895-	160.890560	4.932192-	.133357
120.000000	164.220132	.970859-	166.134098	3.567235-	.086013
135.000000	124.767369	.985853-	170.351068	2.477698-	.060519
150.000000	102.459443	.994331-	173.896301	1.565721-	.046874
165.000000	91.051100	.998667-	177.040980	.758653-	.040011
180.000000	87.542587	1.000000-	180.000000		.038102

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5400.000000	.155841	3.199087	11.943096	11.901157	1.957310

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5400.000000	1.000000		90.000000-	13.839694
15.000000	4364.358069	.610098	52.403350	46.074115-	9.460003
30.000000	2701.731372	.015854-	90.908463	26.696338-	4.144889
45.000000	1568.512185	.442492-	116.263049	17.620858-	1.732686
60.000000	921.586259	.686049-	133.318284	12.432668-	.792797
75.000000	558.173370	.822868-	145.372972	9.048951-	.401783
90.000000	351.555002	.900656-	154.244479	6.562181-	.222005
105.000000	232.952450	.945308-	160.963040	4.896268-	.132388
120.000000	164.498445	.971080-	166.186982	3.541222-	.085370
135.000000	124.971169	.985961-	170.388024	2.469593-	.060066
150.000000	102.622779	.994376-	173.919965	1.554205-	.046506
165.000000	91.198151	.998678-	177.050950	.753439-	.039871
180.000000	87.680736	1.000000-	180.000000		.037809

E	λ^2	η_B	γ_L	η_L	γ_0
5450.000000	.154392	3.214063	12.044421	12.002836	1.964086

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	5450.000000	1.000000		90.000000-	13.946273
15.000000	4398.161188	.607685	52.577587	45.865386-	9.504259
30.000000	2716.120718	.019688-	91.128193	26.529034-	4.144335
45.000000	1574.290129	.445571-	116.459975	17.500709-	1.726796
60.000000	924.114757	.688075-	133.478082	12.345120-	.788629
75.000000	559.411959	.824103-	145.497705	8.984322-	.399252
90.000000	352.230551	.901378-	154.339877	6.614167-	.220475
105.000000	233.360049	.945715-	161.034602	4.860859-	.131430
120.000000	164.769355	.971298-	166.239351	3.515497-	.084739
135.000000	125.169541	.986068-	170.424807	2.441774-	.059608
150.000000	102.783154	.994418-	173.943341	1.542860-	.046133
165.000000	91.336814	.998687-	177.063268	.747709-	.039434
180.000000	87.815964	1.000000-	180.000000		.037520

E	λ^2	η_B	γ_L	η_L	γ_0
5500.000000	.152969	3.228979	12.145746	12.104509	1.970840

θ_K	E_K	Cos χ	χ	θ_P	$d\Omega_B/d\Omega_L$
	5500.000000	1.000000		90.000000-	14.052849
15.000000	4431.876964	.605279	52.750964	45.658090-	9.548387
30.000000	2730.404956	.023493-	91.346260	26.363621-	4.143642
45.000000	1580.011819	.448616-	116.655010	17.382107-	1.720922
60.000000	926.621543	.690073-	133.635989	12.258833-	.784505
75.000000	560.643640	.825319-	145.620891	8.920551-	.396754
90.000000	352.903633	.902088-	154.433899	6.566955-	.218968
105.000000	233.765181	.946115-	161.105305	4.826023-	.130469
120.000000	165.041253	.971512-	166.291031	3.490287-	.084116
135.000000	125.367419	.986173-	170.461076	2.424127-	.059169
150.000000	102.942542	.994460-	173.966145	1.531802-	.045795
165.000000	91.476464	.998697-	177.074408	.742266-	.038995
180.000000	87.950186	1.000000-	180.000000		.03723

E	π^2	η_B	γ_L	η_L	γ_0
5550.000000	.151573	3.243815	12.247071	12.206176	1.977570

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5550.000000	1.000000		90.000000-	14.159431
15.000000	4465.472336	.602880	52.923481	45.452283-	9.591991
30.000000	2744.566322	.027269-	91.562667	26.200099-	4.142860
45.000000	1585.657515	.451629-	116.848326	17.265051-	1.715086
60.000000	929.087865	.692047-	133.792521	12.173634-	.780418
75.000000	561.844233	.826521-	145.743046	8.857698-	.394285
90.000000	353.557963	.902790-	154.527291	6.520317-	.217479
105.000000	234.160444	.946510-	161.175320	4.791588-	.129557
120.000000	165.301307	.971724-	166.342426	3.465306-	.083500
135.000000	125.560856	.986276-	170.496656	2.406881-	.058724
150.000000	103.096502	.994502-	173.989178	1.520744-	.045454
165.000000	91.611672	.998707-	177.085786	.736881-	.038849
180.000000	88.080460	1.000000-	180.000000		.036955

E	π^2	η_B	γ_L	η_L	γ_0
5600.000000	.150202	3.258590	12.348396	12.307838	1.984279

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5600.000000	1.000000		90.000000-	14.266031
15.000000	4498.974443	.600486	53.095197	45.247737-	9.635352
30.000000	2758.628502	.031015-	91.777411	26.038525-	4.141950
45.000000	1591.248930	.454609-	117.039865	17.149543-	1.709265
60.000000	931.524579	.693996-	133.947392	12.089581-	.776373
75.000000	563.034462	.827706-	145.863883	8.795647-	.391846
90.000000	354.203411	.903482-	154.619709	6.474308-	.216010
105.000000	234.551266	.946899-	161.244476	4.757659-	.128640
120.000000	165.563829	.971932-	166.392903	3.440726-	.082895
135.000000	125.751332	.986373-	170.532122	2.389749-	.058300
150.000000	103.248982	.994543-	174.011466	1.509972-	.045107
165.000000	91.748855	.998716-	177.099927	.731838-	.038690
180.000000	88.209747	1.000000-	180.000000		.036679

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5650.000000	.148854	3.273304	12.449721	12.409494	1.990965

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5650.000000	1.000000		90.000000-	14.372606
15.000000	4532.389207	.598102	53.265824	45.044796-	9.678468
30.000000	2772.584095	.034733-	91.990552	25.878727-	4.140922
45.000000	1596.785078	.457556-	117.229629	17.035467-	1.703470
60.000000	933.934647	.695920-	134.100715	12.006731-	.772367
75.000000	564.213836	.828873-	145.983230	8.734512-	.389438
90.000000	354.844911	.904163-	154.710867	6.428987-	.214562
105.000000	234.938633	.947282-	161.312945	4.724266-	.127738
120.000000	165.821909	.972137-	166.442980	3.416547-	.082300
135.000000	125.941315	.986478-	170.566958	2.372962-	.057870
150.000000	103.401955	.994583-	174.033582	1.499373-	.044794
165.000000	91.885544	.998725-	177.106183	.726854-	.038243
180.000000	88.338540	1.000000-	180.000000		.036407

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5700.000000	.147531	3.287952	12.551046	12.511145	1.997629

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5700.000000	1.000000		90.000000-	14.479196
15.000000	4565.700838	.595724	53.435648	44.843287-	9.721149
30.000000	2786.434580	.038422-	92.202030	25.720763-	4.139812
45.000000	1602.259050	.460472-	117.417617	16.922881-	1.697704
60.000000	936.314119	.697820-	134.252492	11.924970-	.768401
75.000000	565.374952	.830026-	146.101488	8.674237-	.387057
90.000000	355.476542	.904835-	154.801165	6.384239-	.213132
105.000000	235.320573	.947660-	161.330554	4.691263-	.126845
120.000000	166.073031	.972340-	166.492713	3.392540-	.081705
135.000000	126.127844	.986577-	170.601794	2.356221-	.057448
150.000000	103.552461	.994623-	174.055526	1.488088-	.044439
165.000000	92.015324	.998736-	177.111327	.721583-	.038083
180.000000	88.433350	1.000000-	180.000000		.036317

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5750.000000	.146232	3.302521	12.652371	12.612790	2.004270

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5750.000000	1.000000		90.000000-	14.585776
15.000000	4598.891077	.593353	53.604556	44.643152-	9.763706
30.000000	2800.160713	.042084-	92.412019	25.564632-	4.138597
45.000000	1607.663936	.463357-	117.604000	16.811727-	1.691866
60.000000	938.656089	.699697-	134.402779	11.844355-	.764475
75.000000	566.511394	.831164-	146.218601	8.614707-	.384703
90.000000	356.095343	.905498-	154.890489	6.340179-	.211722
105.000000	235.690669	.948033-	161.447705	4.658719-	.125966
120.000000	166.322279	.972539-	166.541643	3.369049-	.081129
135.000000	126.307464	.986675-	170.636114	2.339845-	.057035
150.000000	103.697538	.994662-	174.077242	1.478517-	.044121
165.000000	92.143131	.998744-	177.127841	.716598-	.037615
180.000000	88.587245	1.000000-	180.000000		.035875

E	$\lambda\!\!\!^{-2}$	η_B	γ_L	η_L	γ_0
5800.000000	.144954	3.317045	12.753696	12.714431	2.010891

θ_K	E_K	$\cos\chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5800.000000	1.000000		90.000000-	14.592364
15.000000	4632.015193	.590990	53.772605	44.444451-	9.805910
30.000000	2813.806412	.045717-	92.620404	25.410162-	4.137265
45.000000	1613.023918	.466211-	117.788721	16.701949-	1.686243
60.000000	940.978814	.701550-	134.551633	11.764714-	.760583
75.000000	567.646356	.832285-	146.334224	8.556093-	.382357
90.000000	356.710690	.906151-	154.978839	6.296691-	.210300
105.000000	236.062739	.948400-	161.513824	4.626634-	.125102
120.000000	166.568023	.972736-	166.590230	3.345729-	.080551
135.000000	126.488071	.986771-	170.670091	2.323630-	.056815
150.000000	103.846070	.994700-	174.098498	1.468318-	.043525
165.000000	92.271924	.998753-	177.139154	.711670-	.037450
180.000000	88.710117	1.000000-	180.000000		.035615

E	χ^2	η_B	γ_L	η_L	γ_0
5850.000000	.143700	3.331486	12.855021	12.816066	2.017489

θ_K	E_K	$\cos \chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5850.000000	1.000000		90.000000-	14.798947
15.000000	4665.005087	.588633	53.939851	44.247124-	9.847873
30.000000	2827.326771	.049323-	92.827242	25.257526-	4.135857
45.000000	1618.313335	.469035-	117.971724	16.593602-	1.680558
60.000000	943.262061	.703381-	134.698998	11.686161-	.756732
75.000000	568.752698	.833393-	146.448930	8.498167-	.380092
90.000000	357.309753	.906795-	155.066330	6.253777-	.208957
105.000000	236.421486	.948763-	161.579599	4.595006-	.124245
120.000000	166.805872	.972930-	166.638187	3.322811-	.079956
135.000000	126.662263	.986866-	170.703666	2.307759-	.056217
150.000000	103.983746	.994739-	174.120099	1.458177-	.043509
165.000000	92.395290	.998762-	177.148524	.706800-	.037284
180.000000	88.828055	1.000000-	180.000000		.035358

E	χ^2	η_B	γ_L	η_L	γ_0
5900.000000	.142466	3.345888	12.956346	12.917697	2.024067

θ_K	E_K	$\cos \chi$	χ	θ_P	$d\Omega_B/d\Omega_L$
	5900.000000	1.000000		90.000000-	14.905537
15.000000	4697.938232	.586284	54.106181	44.051230-	9.889304
30.000000	2840.768177	.052902-	93.032533	25.106552-	4.134338
45.000000	1623.564262	.471829-	118.153180	16.486631-	1.674096
60.000000	945.523531	.705190-	134.844987	11.608340-	[illegible]
75.000000	569.856078	.834486-	146.562433	8.441043-	[illegible]
90.000000	357.911776	.907431-	155.152789	6.211492-	[illegible]
105.000000	236.783134	.949119-	161.644172	4.[illegible]-	[illegible]
120.000000	167.[illegible]	.973120-	166.685[illegible]	3.[illegible]-	[illegible]
135.000000	126.[illegible]	[illegible]-	170.7[illegible]	[illegible]-	[illegible]
[illegible]	[illegible]	[illegible]-	174.1[illegible]	[illegible]-	[illegible]
[illegible]	[illegible]	[illegible]-	177.1[illegible]	.701000-	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]