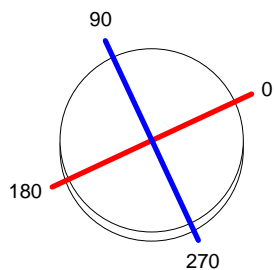


Luminaire		Measur.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm
Maximum value	155.91 cd/klm	Position	C=0.00 G=0.00	Double Symmetrical	
Round Luminaire	Diam.	900 mm	Height	420 mm	
Round Luminous Area	Diam.	900 mm	Height	420 mm	
Horizontal Luminous Area	0.636173 m2	Emitting area on Plane 180°		0.378000 m2	
Emitting area on Plane 0°	0.378000 m2	Emitting area on Plane 270°		0.378000 m2	
Emitting area on Plane 90°	0.378000 m2	Glare area at 76°		0.520676 m2	
Symmetry Type	Double Symmetrical	Maximum Gamma Angle		180	
Measurement Distance	6.44	Measurement Flux		5940.00 lm	
Operator	Asselum T2	Source voltage		230.00 V	
Temperature	20.00 °C	Source current		PRC	
Humidity	54.00 %	Photocell			
Notes					

Luminaire Lamps					
Line	Code	Name	Fluxlm	Pow.W	Qta
PHILIPS 2005 ILCOS FBT,G,C,FSQ	PL ELEC23W/840 E27	MASTER PL electr 23W/840 E27	1400.00	23.00	4
C.I.E.	45 76 94 71 64	D DIN 5040		B31	
F UTE	0.46 E + 0.18 T	B NBN		BZ 5	

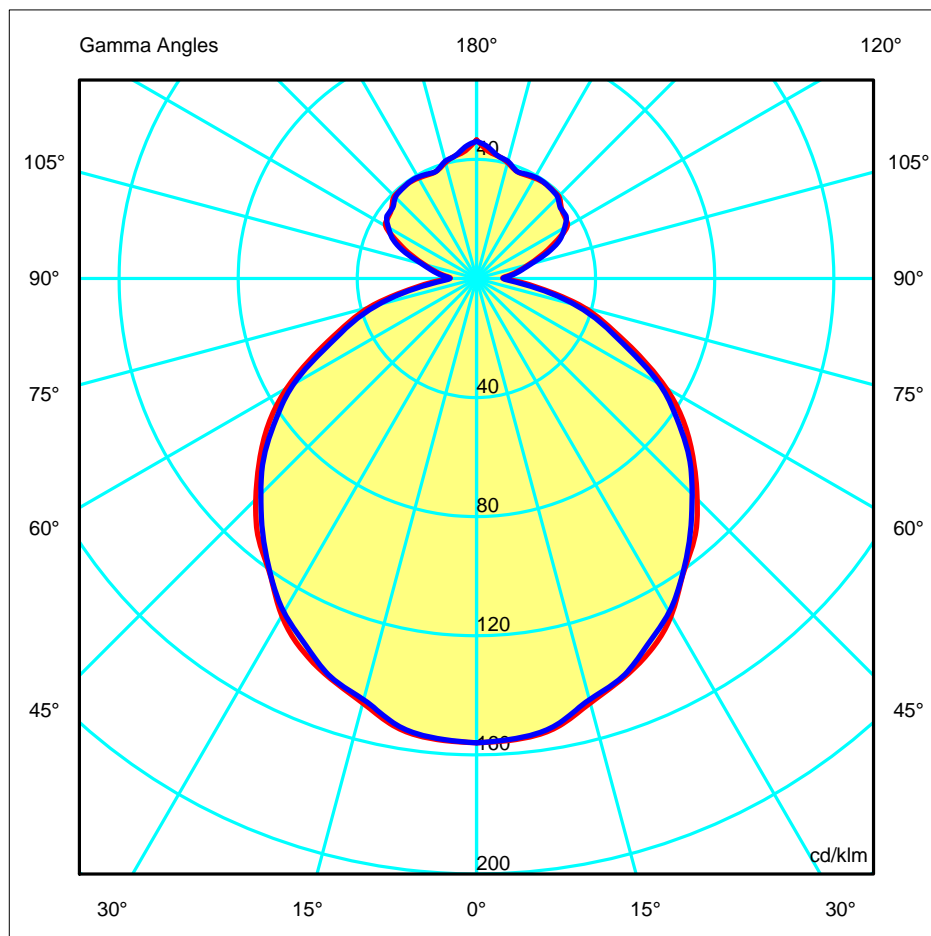
Diam=900mm



C Halfplanes

180.0 — 0.0
 270.0 — 90.0

ULOR 18.41 %
 DLOR 45.74 %
 RN 28.69 %



Luminaire		Measurem.		Lamp			
Code	4930	Code	4930	Code	PL ELEC23W/840 E27		
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4		
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal		
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm		
Luminous Intensity Table cd/klm							
Table 1/1							
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	155.91	155.91	155.91	155.91	155.91	155.91	155.91
G 5.0	155.37	155.14	155.13	154.94	155.20	155.04	154.99
G 10.0	153.19	152.42	152.39	152.06	152.23	152.41	152.40
G 15.0	147.60	146.64	146.61	146.58	147.00	147.08	146.42
G 20.0	143.07	142.66	142.70	142.45	142.98	142.65	142.59
G 25.0	138.01	136.29	136.19	135.96	136.51	136.21	135.78
G 30.0	130.76	129.12	129.21	129.60	129.67	129.33	129.35
G 35.0	121.00	121.23	121.11	120.70	120.49	121.06	120.79
G 40.0	113.88	112.65	111.98	112.05	112.52	112.19	111.68
G 45.0	104.79	101.73	102.01	102.11	102.09	102.25	102.38
G 50.0	95.12	93.06	93.18	92.34	93.03	92.59	93.17
G 55.0	85.30	82.54	82.40	83.25	82.66	82.58	82.14
G 60.0	73.42	70.43	70.24	70.18	70.62	70.51	70.94
G 65.0	59.49	58.29	58.01	57.90	57.15	57.21	56.51
G 70.0	47.40	45.06	45.19	45.52	45.09	44.85	45.11
G 75.0	37.20	34.05	34.15	33.56	34.04	34.27	34.69
G 80.0	24.34	22.72	22.55	22.80	22.73	22.39	22.36
G 85.0	15.24	12.81	13.60	13.57	13.32	13.11	13.18
G 90.0	8.97	9.14	8.97	9.31	8.96	9.16	8.98
G 95.0	10.76	11.38	11.35	11.45	11.18	11.35	11.50
G100.0	14.25	15.49	15.29	15.05	15.09	15.26	14.94
G105.0	18.12	19.86	19.74	19.83	19.44	19.46	18.98
G110.0	23.65	24.76	25.02	24.79	24.17	25.28	25.34
G115.0	29.42	31.20	30.01	30.16	30.48	31.14	30.90
G120.0	35.17	35.22	33.58	34.60	33.52	35.32	34.14
G125.0	36.06	36.91	36.42	36.80	36.17	36.87	36.71
G130.0	37.20	37.81	37.38	37.09	36.82	37.36	36.80
G135.0	39.08	39.06	39.07	38.99	38.49	38.54	38.54
G140.0	39.23	39.54	39.99	39.95	39.44	39.08	39.06
G145.0	39.35	39.66	40.30	40.35	39.75	39.22	39.49
G150.0	38.97	39.46	39.88	39.81	39.44	39.06	39.32
G155.0	38.43	38.93	38.97	38.74	38.60	38.55	38.77
G160.0	38.57	38.89	38.50	37.84	38.13	38.58	38.60
G165.0	40.31	40.58	40.60	39.99	40.15	40.55	40.76
G170.0	41.76	41.43	41.15	40.85	41.10	41.48	41.76
G175.0	43.07	43.11	43.67	42.46	43.51	43.27	44.33
G180.0	46.56	45.80	45.70	44.90	45.44	45.55	46.06

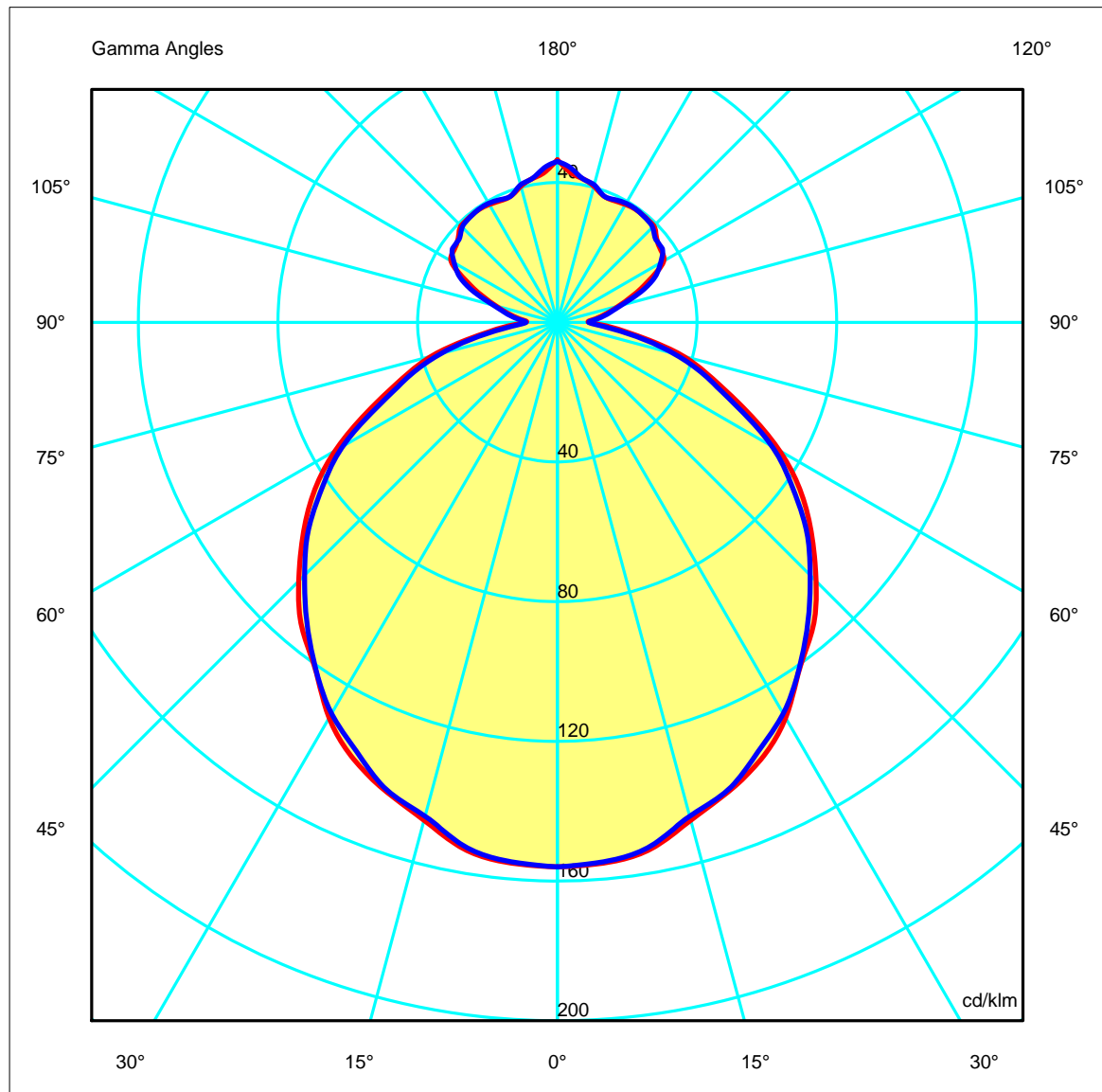
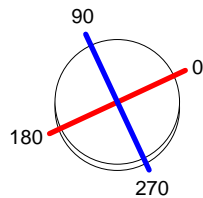
Luminaire		Measur.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

Diam=900mm

C Halfplanes

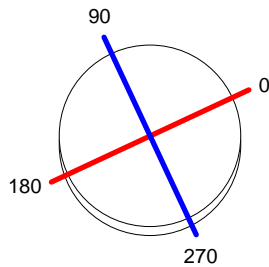
180.0 ————— 0.0

270.0 ————— 90.0



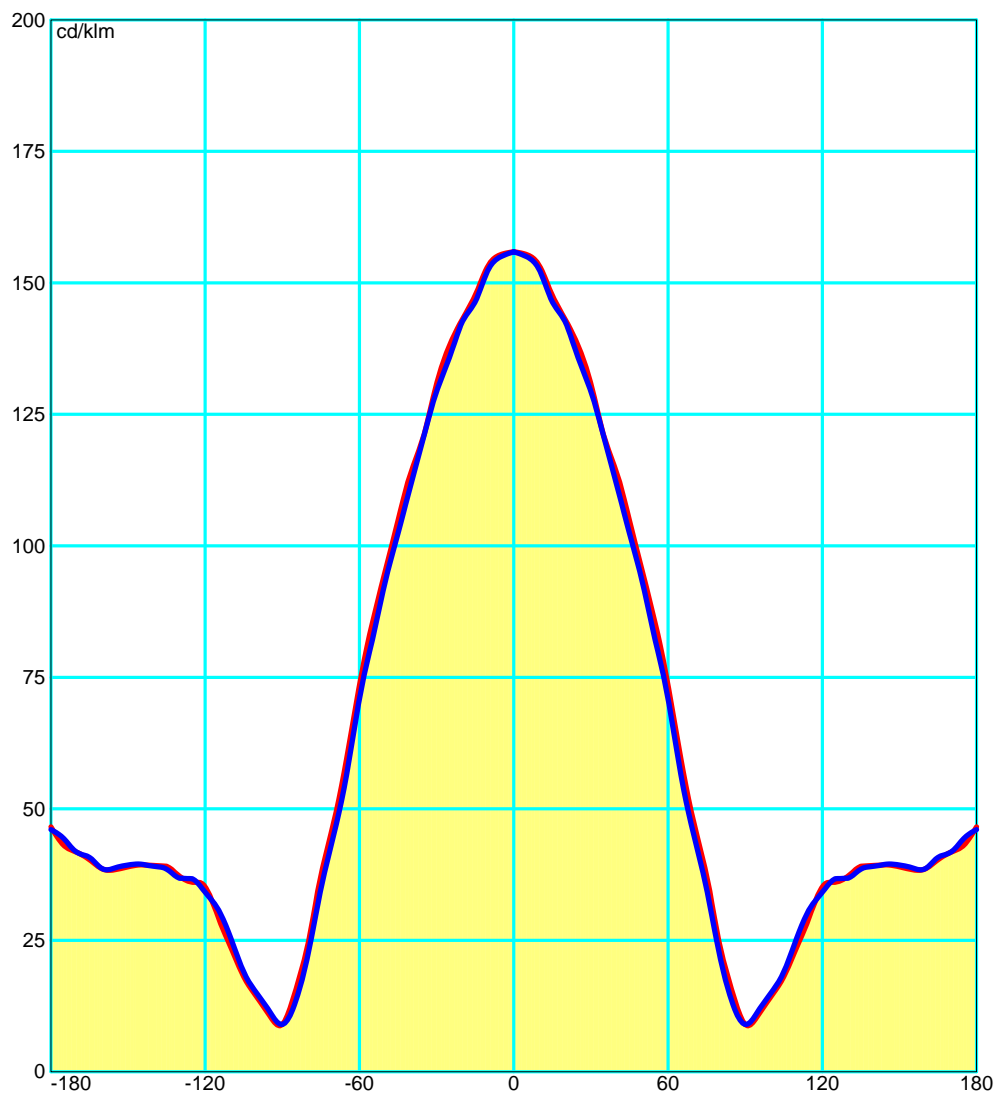
Luminaire		Measurem.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

Diam=900mm



C Halfplanes

180.0 ————— 0.0
 270.0 ————— 90.0

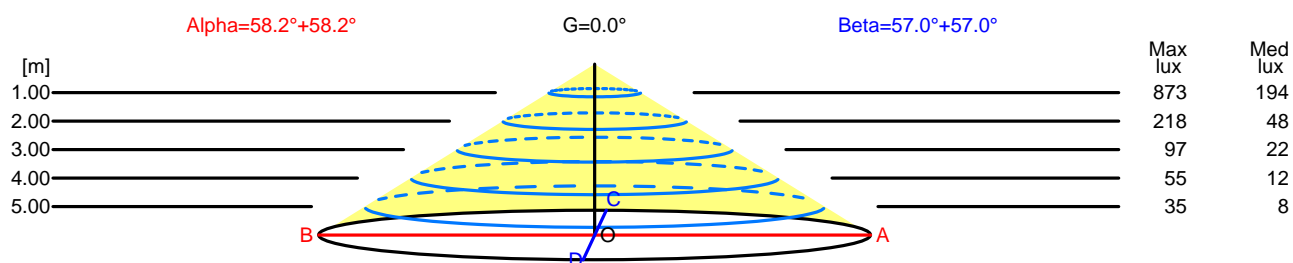


Luminaire		Measurem.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

Width at 50.00 % of MaxLux

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.61	3.23	4.84	6.46	8.07	OC	1.54	3.08	4.61	6.15	7.69
OB	1.61	3.23	4.84	6.46	8.07	OD	1.54	3.08	4.61	6.15	7.69

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	155.91	155.37	147.60	138.01	121.00	104.79	85.30	59.49	37.20	15.24
OB	155.91	155.37	147.60	138.01	121.00	104.79	85.30	59.49	37.20	15.24
OC	155.91	154.99	146.42	135.78	120.79	102.38	82.14	56.51	34.69	13.18
OD	155.91	154.99	146.42	135.78	120.79	102.38	82.14	56.51	34.69	13.18



H[m]	D[m]	Max lux	Med lux	Alpha=58.2°+58.2°	G=0.0	
1.00	3.23	873	194			
2.00	6.46	218	48			
3.00	9.69	97	22			
4.00	12.91	55	12			
5.00	16.14	35	8			

H[m]	D[m]	Max lux	Med lux	Beta=57.0°+57.0°	G=0.0	
1.00	3.08	873	194			
2.00	6.15	218	48			
3.00	9.23	97	22			
4.00	12.31	55	12			
5.00	15.38	35	8			

Luminaire		Measur.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

Total Flux=5600.00 Luminaire Flux=3592.38

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.29	0.37	0.45	0.52	0.57	0.66	0.72	0.76	0.81	0.84	0.91	0.95
RC	5	5	5	5	5	5	5	5	5	6	6	6

Zonal Flux per 1000 Lumen

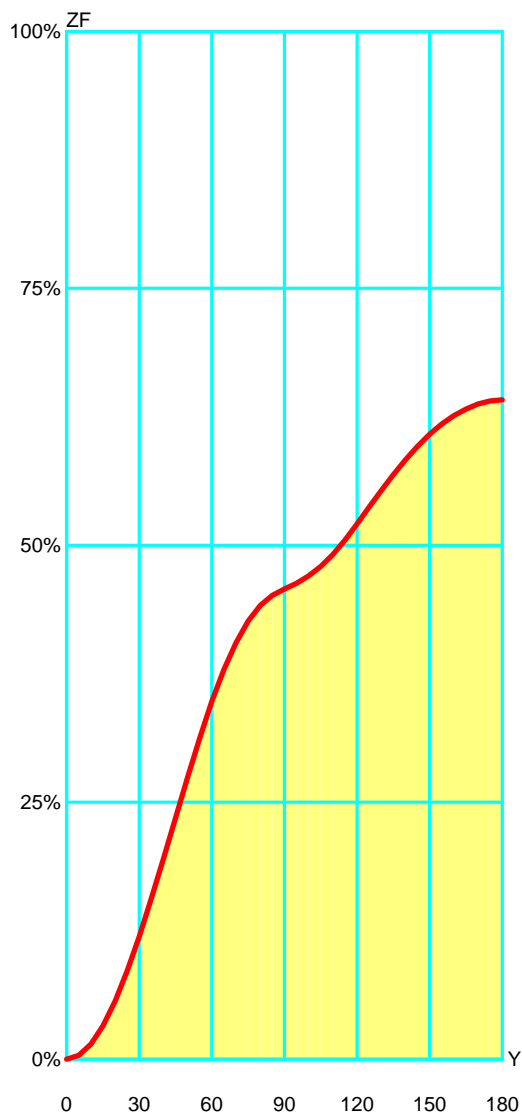
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	15	56	119	195	274	348	405	441	457	470	491	521	553	583	608	626	637	641

CIE Flux Codes

45 76 94 71 64

C.I.E. 5/5/5/5/5/5/5/5/6/6
D DIN 5040 B31
F UTE 0.46 E + 0.18 T
B NBN BZ 5
RN 28.69380 %
BLF 1.0

LOR 64.14956 %
ULOR 18.40695 %
DLOR 45.74261 %
UFF 28.69380 %
DFF 71.30620 %
FFR 40.24026 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	3.72	3.72	0.58 %	0.58 %
10°	11.00	14.72	1.71 %	2.29 %
15°	17.75	32.47	2.77 %	5.06 %
20°	23.86	56.33	3.72 %	8.78 %
25°	29.27	85.59	4.56 %	13.34 %
30°	33.64	119.24	5.24 %	18.59 %
35°	36.88	156.11	5.75 %	24.34 %
40°	38.92	195.03	6.07 %	30.40 %
45°	39.75	234.78	6.20 %	36.60 %
50°	39.47	274.25	6.15 %	42.75 %
55°	38.25	312.50	5.96 %	48.71 %
60°	35.49	348.00	5.53 %	54.25 %
65°	31.23	379.22	4.87 %	59.12 %
70°	26.10	405.33	4.07 %	63.18 %
75°	20.82	426.15	3.25 %	66.43 %
80°	15.28	441.43	2.38 %	68.81 %
85°	9.83	451.26	1.53 %	70.34 %
90°	6.17	457.43	0.96 %	71.31 %
95°	5.58	463.01	0.87 %	72.18 %
100°	7.18	470.19	1.12 %	73.30 %
105°	9.26	479.45	1.44 %	74.74 %
110°	11.56	491.01	1.80 %	76.54 %
115°	14.00	505.01	2.18 %	78.72 %
120°	15.80	520.81	2.46 %	81.19 %
125°	16.43	537.24	2.56 %	83.75 %
130°	16.05	553.30	2.50 %	86.25 %
135°	15.37	568.67	2.40 %	88.65 %
140°	14.51	583.17	2.26 %	90.91 %
145°	13.23	596.41	2.06 %	92.97 %
150°	11.67	608.08	1.82 %	94.79 %
155°	9.90	617.97	1.54 %	96.33 %
160°	8.09	626.06	1.26 %	97.59 %
165°	6.50	632.56	1.01 %	98.61 %
170°	4.85	637.41	0.76 %	99.36 %
175°	3.03	640.43	0.47 %	99.83 %
180°	1.06	641.50	0.17 %	100.00 %

Luminaire		Measurem.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

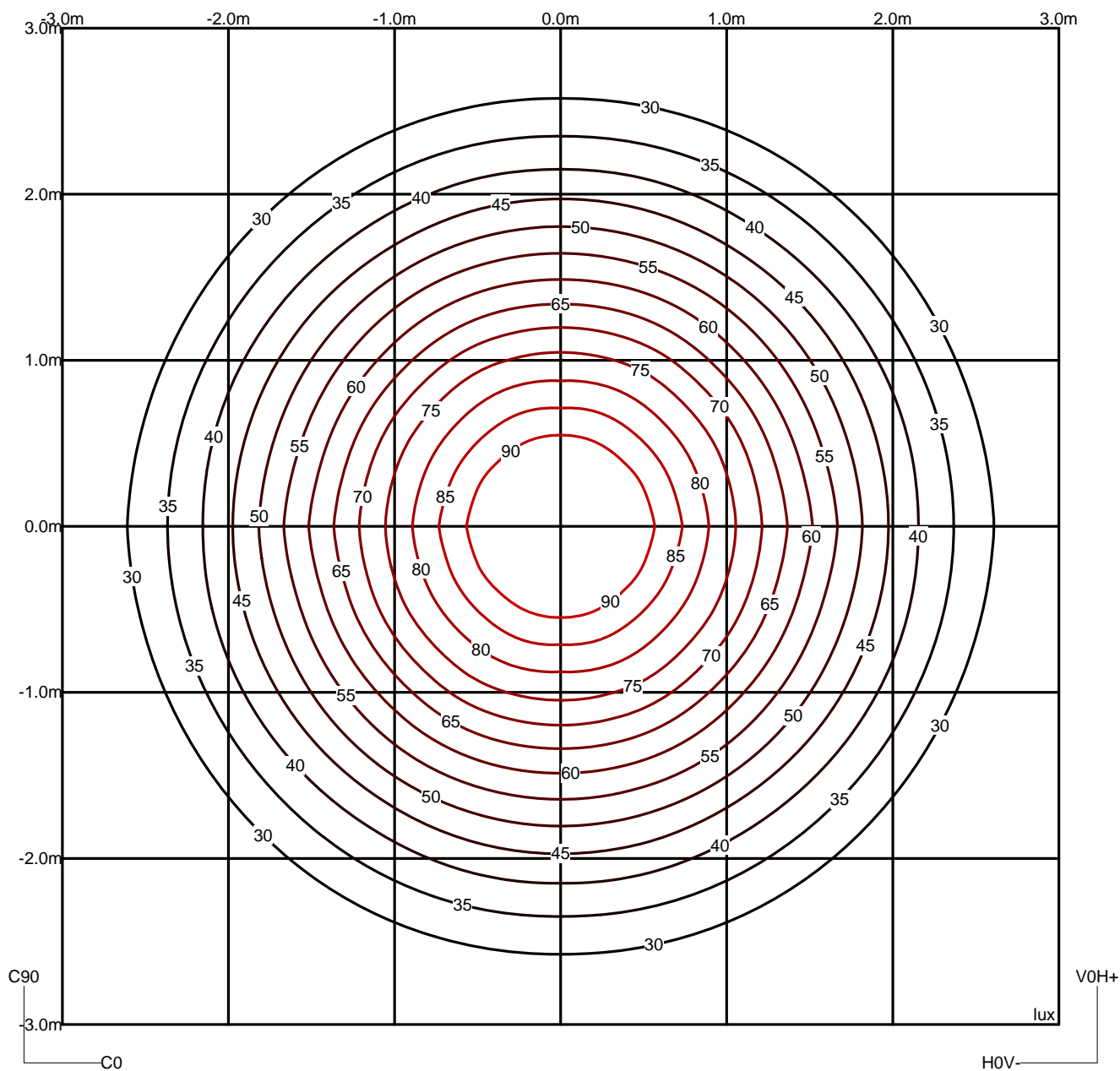
UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	9.0	10.0	9.7	10.7	11.4	9.0	10.0	9.6	10.6	11.4
x=2H y=3H	10.3	11.2	11.0	11.9	12.6	10.2	11.1	10.9	11.8	12.6
x=2H y=4H	10.8	11.7	11.5	12.4	13.1	10.7	11.5	11.4	12.3	13.1
x=2H y=6H	11.2	12.0	11.9	12.7	13.4	11.1	11.8	11.8	12.6	13.4
x=2H y=8H	11.3	12.0	12.0	12.8	13.5	11.1	11.9	11.9	12.6	13.5
x=2H y=12H	11.4	12.1	12.1	12.8	13.6	11.2	11.9	11.9	12.7	13.6
x=4H y=2H	9.5	10.3	10.2	11.0	11.8	9.5	10.3	10.2	11.0	11.8
x=4H y=3H	10.9	11.6	11.7	12.4	13.2	10.9	11.6	11.6	12.3	13.2
x=4H y=4H	11.5	12.1	12.3	12.9	13.7	11.4	12.1	12.2	12.8	13.7
x=4H y=6H	12.0	12.5	12.8	13.3	14.2	11.9	12.4	12.7	13.2	14.2
x=4H y=8H	12.1	12.6	12.9	13.4	14.3	12.0	12.5	12.8	13.3	14.3
x=4H y=12H	12.2	12.7	13.0	13.5	14.3	12.1	12.6	12.9	13.4	14.3
x=8H y=4H	11.7	12.2	12.5	13.0	13.9	11.6	12.1	12.4	12.9	13.9
x=8H y=6H	12.2	12.6	13.1	13.5	14.4	12.1	12.5	13.0	13.4	14.4
x=8H y=8H	12.4	12.8	13.3	13.6	14.6	12.3	12.7	13.2	13.5	14.6
x=8H y=12H	12.6	12.9	13.5	13.8	14.7	12.5	12.8	13.3	13.6	14.7
x=12H y=4H	11.7	12.1	12.5	12.9	13.8	11.6	12.0	12.4	12.8	13.8
x=12H y=6H	12.2	12.6	13.1	13.4	14.4	12.2	12.5	13.0	13.4	14.4
x=12H y=8H	12.5	12.8	13.3	13.6	14.6	12.4	12.7	13.2	13.5	14.6

Luminaire		Measurem.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=3.00m



Luminaire				Measur.				Lamp			
Code	4930			Code	4930			Code	PL ELEC23W/840 E27		
Name	Hanging lamp large Screen sh.			Name	Hanging lamp large Screen sh			Number	4		
Line	VIBIA-Warm			Date	17-10-2012			Position	Universal		
Efficiency	64.15%			Coordinate system	C-G			Total Flux	5600.00 lm		

Utilizations CIE

Mounting	Direct				114-Norm type Normalised								Suspension Ratio 3								Standard CIE Settings							
	Ceiling																											
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000					
0.60	263	236	238	214	225	205	184	156	171	146	148	112	132	90	136	120	106	107	86	100	91	78	69					
0.80	294	270	255	235	256	225	212	185	190	167	165	131	147	107	156	138	124	123	102	118	106	94	82					
1.00	315	293	264	247	279	236	233	208	203	182	177	146	158	121	170	151	138	136	116	132	119	106	92					
1.25	333	314	269	255	299	245	254	230	213	195	188	160	168	135	183	164	152	148	129	145	132	119	102					
1.50	346	329	271	259	313	249	270	248	220	204	196	171	177	146	192	173	162	157	140	155	142	129	110					
2.00	363	349	270	261	333	253	294	275	228	215	207	185	189	162	203	186	177	172	156	170	157	145	123					
2.50	374	362	269	262	345	254	311	294	232	221	214	196	197	174	211	195	187	182	168	180	169	157	131					
3.00	381	371	267	261	354	254	323	308	235	226	218	203	204	183	216	202	195	189	177	187	177	166	138					
4.00	391	383	265	260	366	254	340	328	239	232	225	213	213	196	222	211	205	200	190	198	189	179	147					
5.00	397	391	263	259	374	254	352	341	241	235	229	219	218	204	226	216	212	207	198	205	197	187	153					
10.00	410	407	258	256	390	252	377	371	245	242	238	232	231	224	234	228	226	223	218	220	215	207	167					
20.00	416	415	254	253	398	250	391	388	246	245	242	240	239	235	238	235	234	232	229	228	225	219	175					

Wall

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000										
0.60	271	257	239	227	249	221	196	184	178	168	150	136	129	114	162	137	132	119	112	129	113	108	97										
0.80	311	296	266	255	285	247	232	218	206	194	177	161	155	138	186	162	156	143	134	151	134	128	115										
1.00	338	324	282	272	310	263	259	244	224	213	196	180	174	156	202	179	173	160	151	166	150	142	127										
1.25	362	349	296	287	333	276	284	269	241	230	214	198	192	174	217	195	189	177	168	181	165	155	138										
1.50	381	368	305	297	350	285	304	289	253	243	228	212	207	189	228	207	201	190	181	191	177	166	147										
2.00	402	391	312	306	370	293	330	316	266	258	244	230	225	208	240	222	216	206	197	204	191	178	156										
2.50	416	406	316	311	383	298	347	335	274	267	255	242	238	222	248	232	227	218	209	212	200	186	162										
3.00	425	417	318	313	392	300	360	348	280	273	262	251	246	232	252	238	233	225	217	218	207	191	166										
4.00	440	433	323	320	406	306	379	370	289	284	274	265	261	248	261	250	246	239	232	228	219	201	174										
5.00	451	445	327	325	417	310	394	385	297	292	284	275	272	261	269	258	255	249	242	235	227	208	180										
10.00	477	474	339	337	442	323	429	423	315	312	307	302	300	293	286	280	278	274	270	255	250	228	196										
20.00	491	489	345	344	456	329	449	446	325	323	320	317	316	312	296	293	291	289	287	267	264	240	206										

Working Pl.

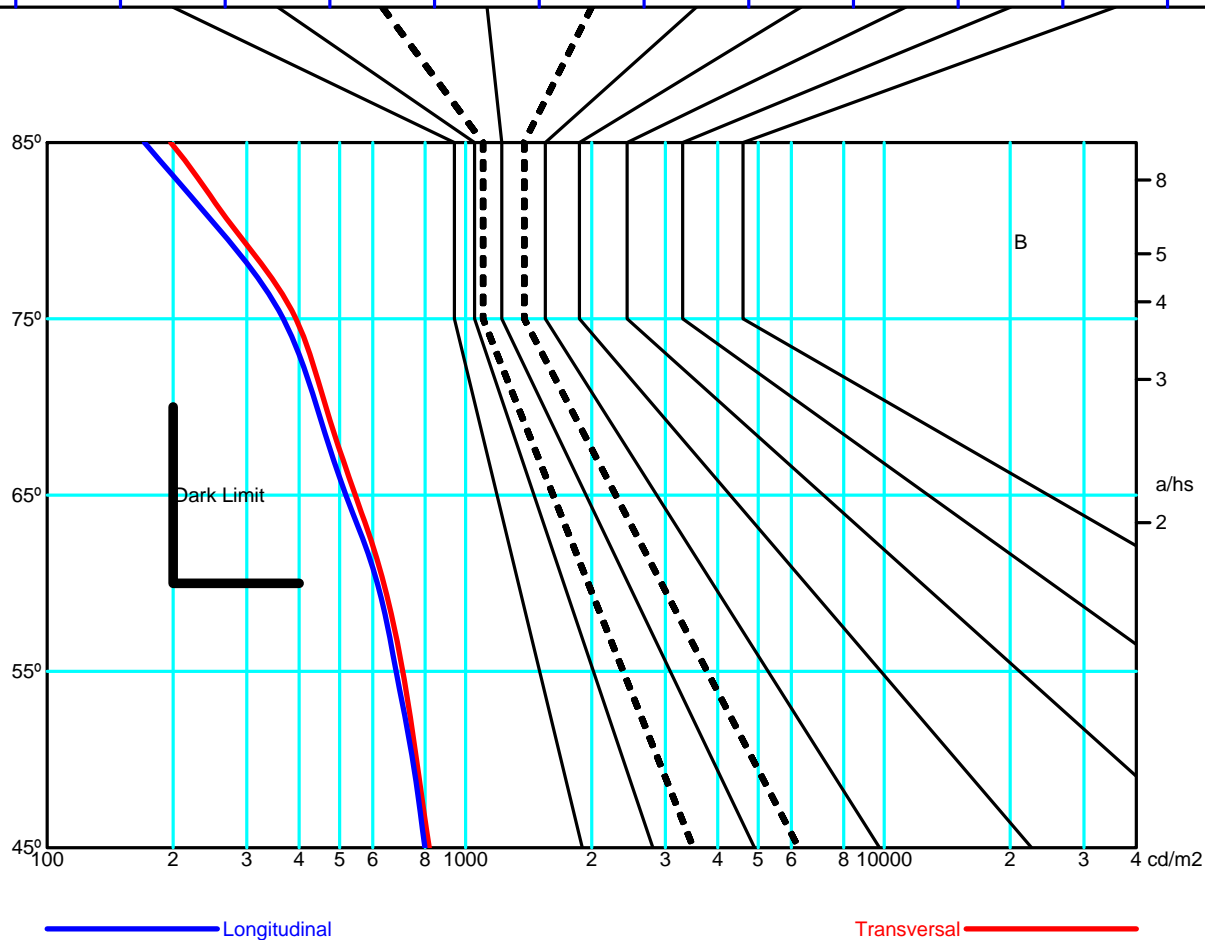
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000										
0.60	328	313	306	293	303	285	239	226	230	219	193	179	166	152	211	179	174	156	149	170	149	143	133										
0.80	395	378	364	350	364	339	298	283	284	271	246	228	216	198	259	227	220	202	192	213	191	183	171										
1.00	447	430	407	394	412	380	347	330	328	314	290	270	260	239	299	267	259	242	231	250	228	217	204										
1.25	497	480	448	435	458	419	396	378	371	357	334	313	304	281	337	306	299	282	270	286	264	250	237										
1.50	534	518	477	466	493	448	434	416	403	390	368	347	339	315	366	337	329	314	301	313	293	276	262										
2.00	589	574	519	509	544	489	492	475	451	439	420	400	393	369	410	385	377	363	350	356	338	317	301										
2.50	624	612	545	537	578	515	532	515	482	471	455	436	430	407	439	417	409	397	385	385	369	344	328										
3.00	650	638	563	556	602	533	561	545	505	495	480	463	458	436	460	440	433	422	410	406	391	364	347										
4.00	682	673	585	580	633	556	599	585	533	525	512	498	494	474	486	469	464	455	444	432	420	389	371										
5.00	703	695	599	595	653	570	623	611	551	543	533	520	517	499	502	488	483	475	466	448	438	405	385										
10.00	747	742	627	625	695	599	677	670	588	584	578	570	568	557	538	530	526	522	516	485	479	439	418										
20.00	770	768	642	641	718	614	708	704	609	606	603	599	598	592	557	553	551	549	545	506	502	459	437										

LM53 SHR C0-C180: 1.238 SHR C90-C270: 1.226 SHR Square: 1.364

Luminaire		Measur.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

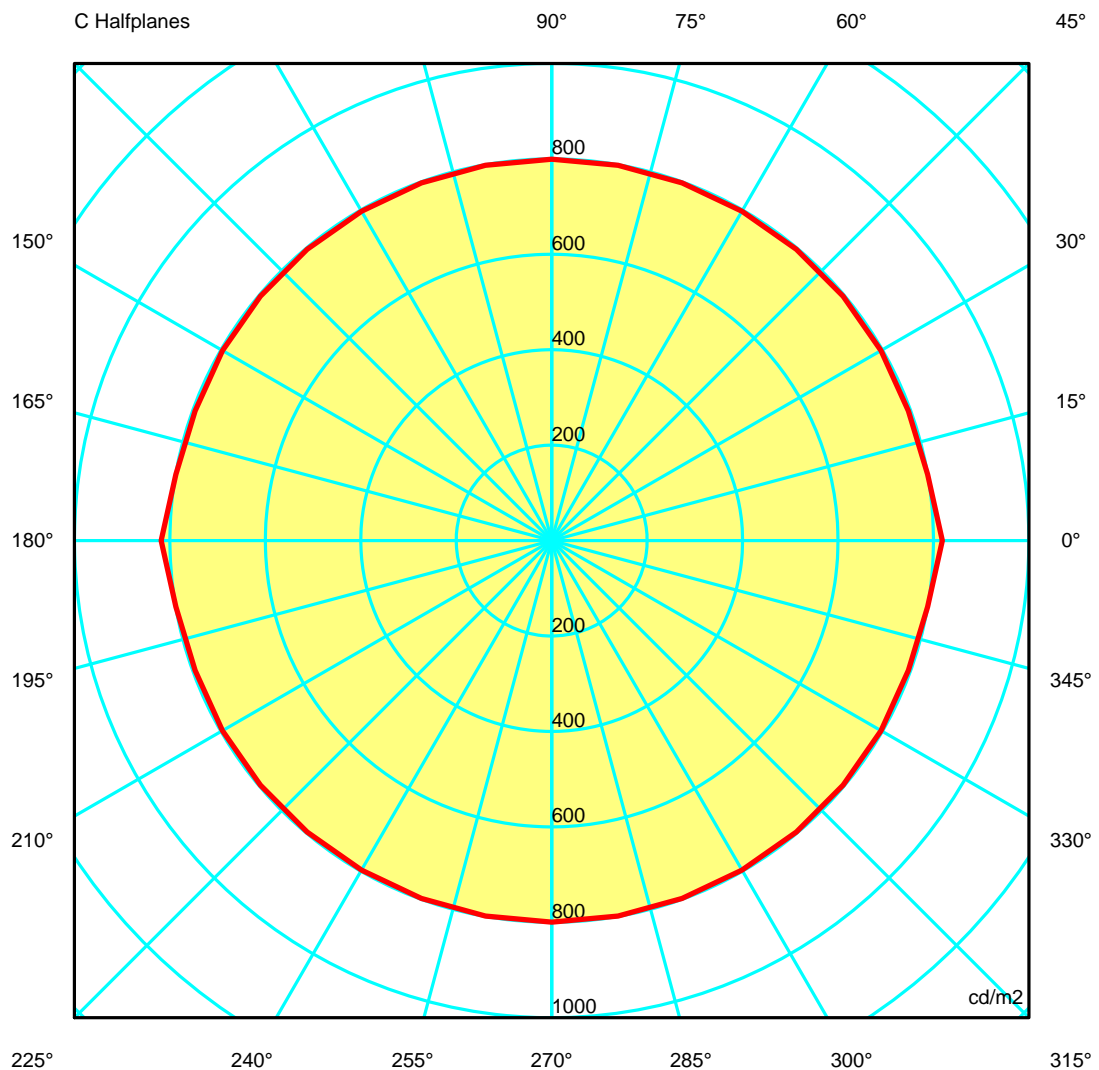
Average Luminance [cd/m²]										
0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0°	818.3	762.6	708.1	637.0	544.8	463.4	393.2	282.4	197.5	---
90°	799.5	747.0	682.0	615.5	517.6	441.0	366.7	259.4	170.8	---

Flush mounted or transversal view												
		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire		Measur.		Lamp	
Code	4930	Code	4930	Code	PL ELEC23W/840 E27
Name	Hanging lamp large Screen sh.	Name	Hanging lamp large Screen sh	Number	4
Line	VIBIA-Warm	Date	17-10-2012	Position	Universal
Efficiency	64.15%	Coordinate system	C-G	Total Flux	5600.00 lm

Luminance												
G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	1372.43	1372.43	1372.43	1372.43	1372.43	1372.43	1372.43	1372.43	1372.43	1372.43	1372.43	1372.43
5°	1305.02	1303.00	1303.66	1301.82	1303.66	1303.00	1305.02	1303.00	1303.66	1301.82	1303.66	1303.00
10°	1239.43	1232.95	1231.66	1233.04	1231.66	1232.95	1239.43	1232.95	1231.66	1233.04	1231.66	1232.95
15°	1160.33	1152.56	1155.63	1151.07	1155.63	1152.56	1160.33	1152.56	1155.63	1151.07	1155.63	1152.56
20°	1101.91	1099.08	1101.23	1098.22	1101.23	1099.08	1101.91	1099.08	1101.23	1098.22	1101.23	1099.08
25°	1049.64	1035.76	1038.18	1032.65	1038.18	1035.76	1049.64	1035.76	1038.18	1032.65	1038.18	1035.76
30°	989.59	977.86	981.39	978.93	981.39	977.86	989.59	977.86	981.39	978.93	981.39	977.86
35°	918.23	919.11	914.38	916.63	914.38	919.11	918.23	919.11	914.38	916.63	914.38	919.11
40°	873.24	858.65	862.82	856.33	862.82	858.65	873.24	858.65	862.82	856.33	862.82	858.65
45°	818.30	796.60	797.20	799.47	797.20	796.60	818.30	796.60	797.20	799.47	797.20	796.60
50°	762.57	747.02	745.86	747.00	745.86	747.02	762.57	747.02	745.86	747.00	745.86	747.02
55°	708.14	684.09	686.26	681.97	686.26	684.09	708.14	684.09	686.26	681.97	686.26	684.09
60°	637.02	609.46	612.70	615.50	612.70	609.46	637.02	609.46	612.70	615.50	612.70	609.46
65°	544.84	531.28	523.39	517.56	523.39	531.28	544.84	531.28	523.39	517.56	523.39	531.28
70°	463.41	441.83	440.87	441.01	440.87	441.83	463.41	441.83	440.87	441.01	440.87	441.83
75°	393.23	360.99	359.81	366.67	359.81	360.99	393.23	360.99	359.81	366.67	359.81	360.99
80°	282.37	261.58	263.73	259.36	263.73	261.58	282.37	261.58	263.73	259.36	263.73	261.58
85°	197.51	176.29	172.69	170.82	172.69	176.29	197.51	176.29	172.69	170.82	172.69	176.29
90°	132.92	132.93	132.70	133.00	132.70	132.93	132.92	132.93	132.70	133.00	132.70	132.93



45.0°