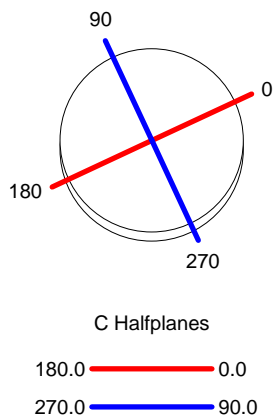


<b>Luminaire</b>			<b>Measurem.</b>			<b>Lamp</b>	
Code	5410		Code	5410		Code	65940
Name	Single ceiling lamp d/24 hal.		Name	Single ceiling lamp d/24 hal.		Number	1
Line	VIBIA-Puck		Date	30-05-2012		Position	Universal
Efficiency			54.17%		Coordinate system		C-G
Total Flux			420.00 lm		Maximum value		
139.80 cd/klm			Position		C=0.00 G=0.00		Double Symmetrical
Round Luminaire			Diam.		244 mm		Height
Round Luminous Area			Diam.		244 mm		Height
Horizontal Luminous Area			0.046759 m2		Emitting area on Plane 180°		0.014640 m2
Emitting area on Plane 0°			0.014640 m2		Emitting area on Plane 270°		0.014640 m2
Emitting area on Plane 90°			0.014640 m2		Glare area at 76°		0.025517 m2
Symmetry Type			Double Symmetrical		Maximum Gamma Angle		180
Measurement Distance			6.44		Measurement Flux		400.00 lm
Operator			Asselum T2		Source voltage		230.00 V
Temperature			24.00 °C		Source current		PRC
Humidity			50.00 %		Photocell		
Notes							

Luminaire Lamps					
Line	Code	Name	Fluxlm	Pow.W	Qta
OSRAM 2006 HS, HM, HD, HR	65940	HALOPIN® 40W G9	420.00	40.00	1
C.I.E.	42 72 90 83 54	D DIN 5040		B31	
F UTE	0.45 G + 0.09 T	B NBN		BZ 5	

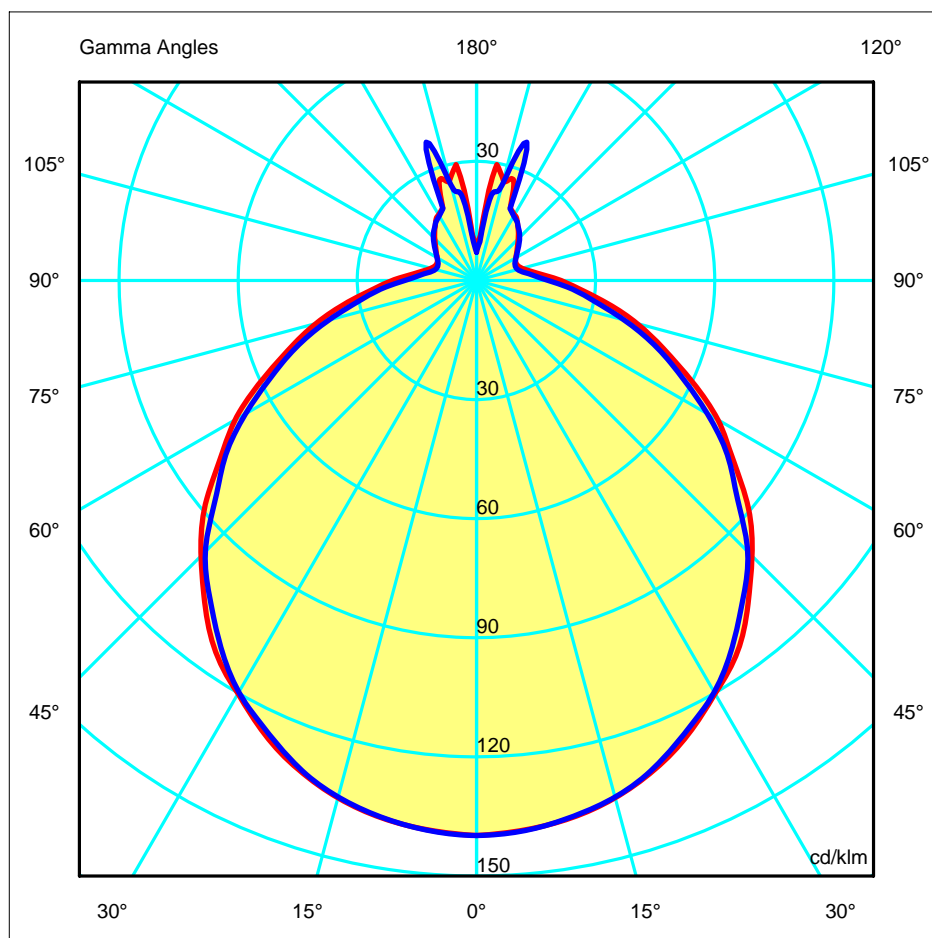
Diam=244mm



ULOR 9.27 %

DLOR 44.91 %

RN 17.11 %



<b>Luminaire</b>		<b>Measurem.</b>		<b>Lamp</b>			
Code	5410	Code	5410	Code	65940		
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1		
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal		
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm		
<b>Luminous Intensity Table cd/klm</b>							
<b>Table 1/1</b>							
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	139.80	139.80	139.80	139.80	139.80	139.80	139.80
G 5.0	138.90	139.39	139.38	139.17	139.01	139.09	139.09
G 10.0	137.45	137.63	137.66	137.82	137.24	137.70	137.22
G 15.0	134.88	134.91	134.81	134.61	134.80	134.59	134.72
G 20.0	131.08	130.63	130.67	130.62	130.46	130.58	130.63
G 25.0	126.16	125.33	125.45	125.93	125.34	125.96	125.16
G 30.0	120.13	119.80	119.20	118.97	120.12	118.97	119.71
G 35.0	114.46	112.66	112.15	112.51	112.52	112.49	112.39
G 40.0	106.36	104.63	104.49	104.67	104.58	104.51	104.45
G 45.0	98.10	96.28	96.53	95.64	96.33	95.65	96.56
G 50.0	89.44	86.79	86.92	87.27	86.54	87.12	85.87
G 55.0	78.93	77.44	77.62	76.47	77.25	76.64	77.25
G 60.0	70.19	67.21	68.01	66.98	66.99	66.66	67.15
G 65.0	59.72	57.38	57.42	58.13	56.94	57.36	56.83
G 70.0	50.06	48.81	48.31	47.17	48.11	47.02	47.80
G 75.0	41.88	39.64	39.14	39.15	38.95	38.61	38.48
G 80.0	33.57	31.60	31.29	31.61	30.41	30.88	30.22
G 85.0	26.36	25.10	24.72	24.33	24.03	23.95	24.06
G 90.0	21.29	19.80	19.20	19.48	18.50	19.15	18.05
G 95.0	16.72	15.85	15.42	15.55	14.70	15.15	14.46
G100.0	13.72	13.03	12.89	12.68	12.13	12.37	12.05
G105.0	11.89	11.53	11.36	11.33	10.85	11.03	10.69
G110.0	11.02	10.97	10.83	10.69	10.51	10.49	10.43
G115.0	10.90	10.94	10.96	10.90	10.77	10.75	10.68
G120.0	11.40	11.60	11.59	11.53	11.54	11.47	11.55
G125.0	12.40	12.49	12.63	12.70	12.50	12.63	12.48
G130.0	13.43	13.79	13.91	13.80	13.78	13.70	13.96
G135.0	14.92	15.09	15.05	14.92	14.99	15.11	15.37
G140.0	16.37	16.33	16.17	16.10	16.31	16.57	16.67
G145.0	17.94	17.76	17.48	17.22	17.67	17.64	17.94
G150.0	19.07	18.71	18.65	18.72	18.66	18.61	18.74
G155.0	20.15	19.78	19.84	19.60	20.33	19.43	19.99
G160.0	27.09	22.09	22.14	23.17	31.47	24.12	37.08
G165.0	26.13	24.25	26.09	26.35	26.49	26.84	24.91
G170.0	29.65	28.27	23.44	23.48	21.55	24.18	21.96
G175.0	11.44	16.08	10.39	22.29	9.95	17.70	9.81
G180.0	7.68	7.82	8.08	8.27	7.94	7.54	7.12

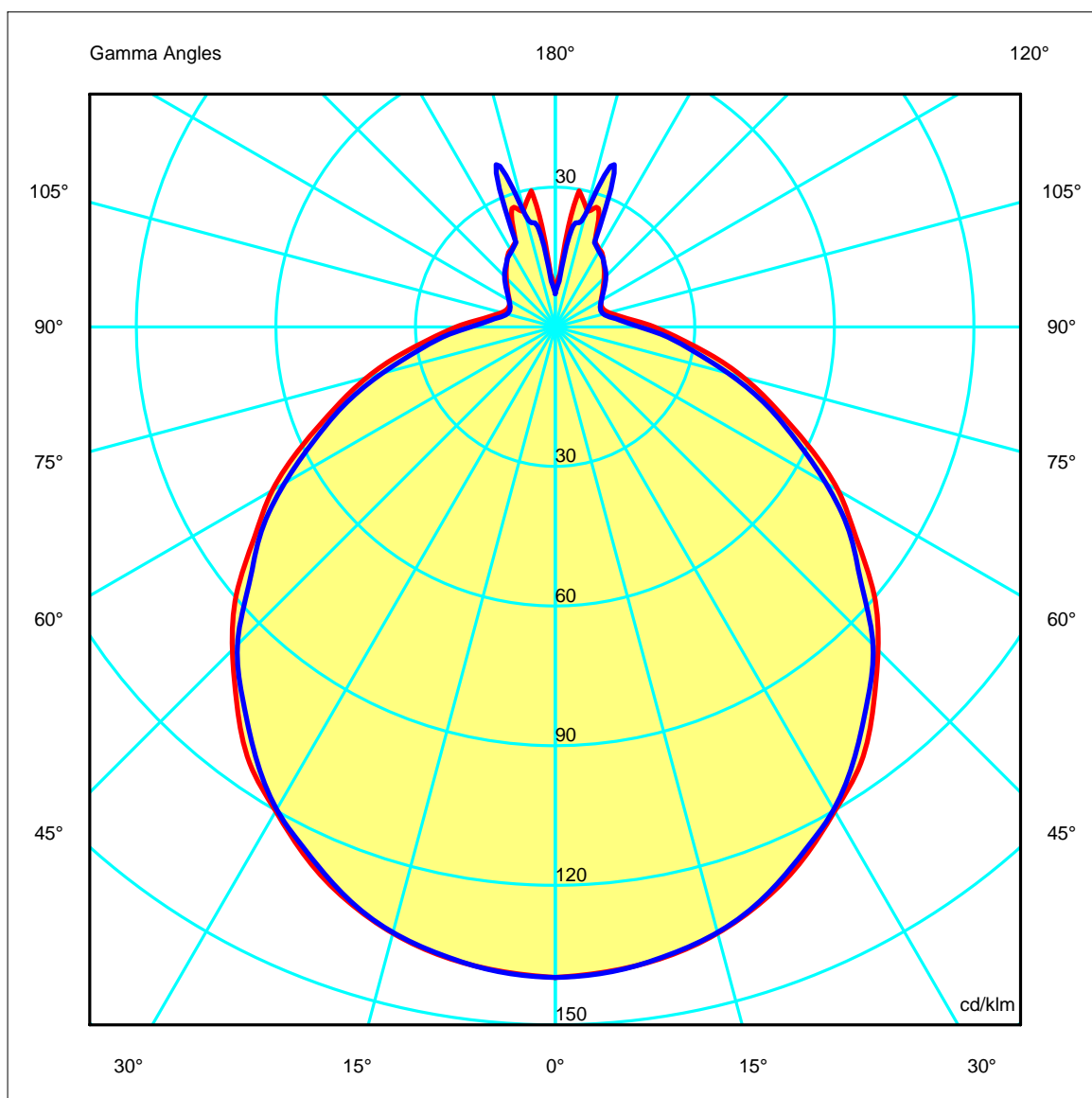
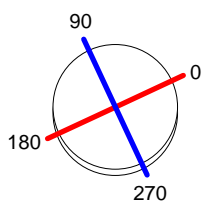
<b>Luminaire</b>		<b>Measur.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

Diam=244mm

C Halfplanes

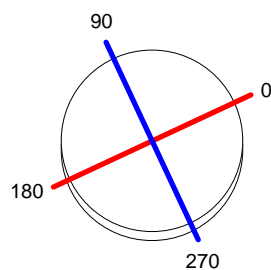
180.0 ————— 0.0

270.0 ————— 90.0



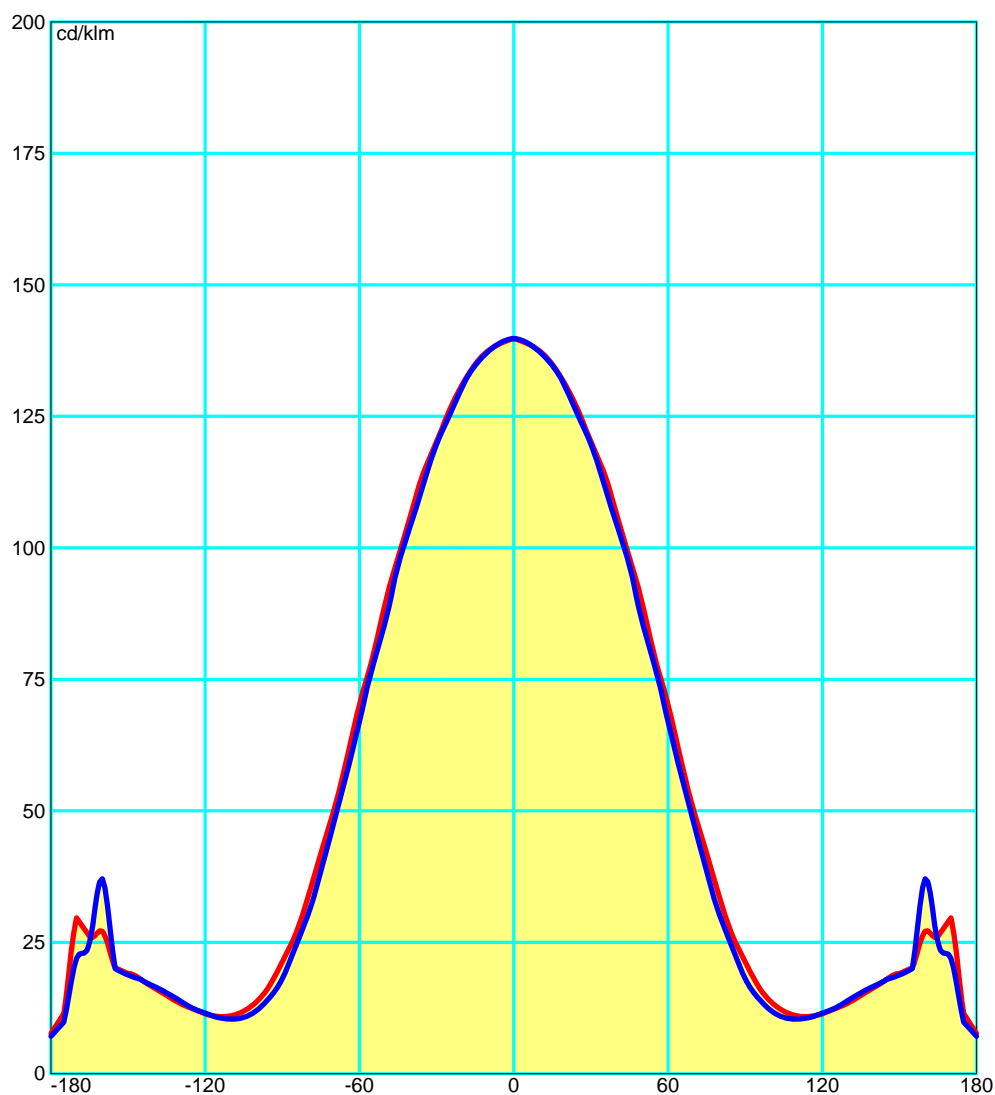
<b>Luminaire</b>		<b>Measurem.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

Diam=244mm



C Halfplanes

180.0 — 0.0  
 270.0 — 90.0

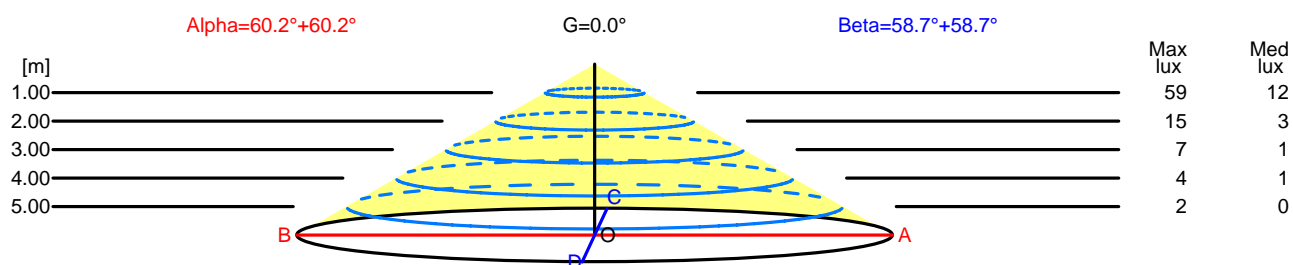


<b>Luminaire</b>		<b>Measurem.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

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	1.74	3.49	5.23	6.97	8.71	OC	1.65	3.29	4.94	6.58	8.23
OB	1.74	3.49	5.23	6.97	8.71	OD	1.65	3.29	4.94	6.58	8.23

	Luminous Intensities [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	139.80	138.90	134.88	126.16	114.46	98.10	78.93	59.72	41.88	26.36
OB	139.80	138.90	134.88	126.16	114.46	98.10	78.93	59.72	41.88	26.36
OC	139.80	139.09	134.72	125.16	112.39	96.56	77.25	56.83	38.48	24.06
OD	139.80	139.09	134.72	125.16	112.39	96.56	77.25	56.83	38.48	24.06



H[m]	D[m]	Max lux	Med lux	Alpha=60.2°+60.2°	G=0.0	
1.00	3.49	59	12			
2.00	6.97	15	3			
3.00	10.46	7	1			
4.00	13.94	4	1			
5.00	17.43	2	0			

H[m]	D[m]	Max lux	Med lux	Beta=58.7°+58.7°	G=0.0	
1.00	3.29	59	12			
2.00	6.58	15	3			
3.00	9.87	7	1			
4.00	13.16	4	1			
5.00	16.45	2	0			

<b>Luminaire</b>		<b>Measur.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

Total Flux=420.00 Luminaire Flux=227.53

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	0.27	0.35	0.42	0.49	0.54	0.63	0.68	0.73	0.78	0.82	0.89	0.94
RC	6	6	6	6	6	6	6	6	6	6	7	7

Zonal Flux per 1000 Lumen

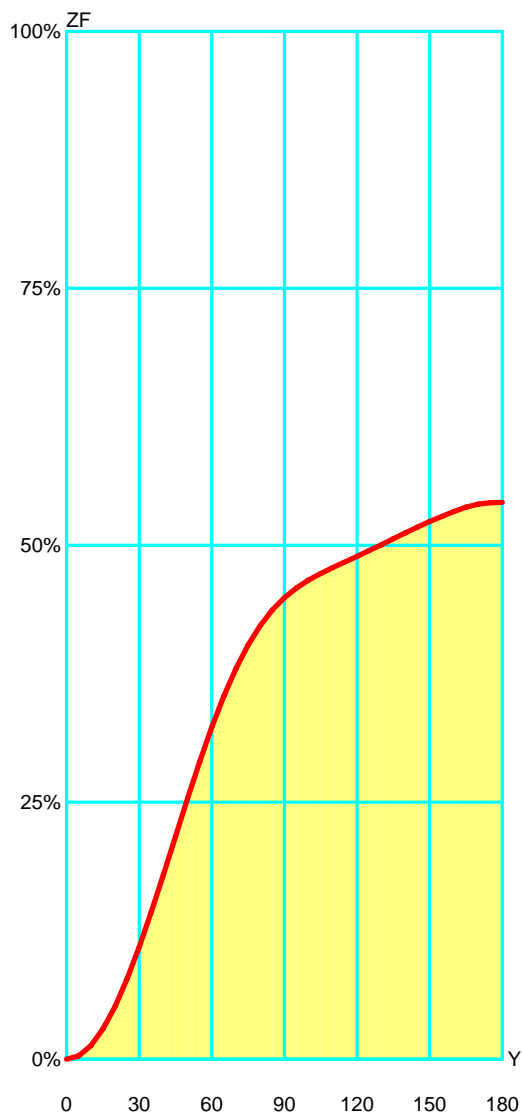
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	13	51	109	180	254	323	380	422	449	466	478	489	500	512	523	533	540	542

CIE Flux Codes

42 72 90 83 54

C.I.E. 6/6/6/6/6/6/6/6/7/7  
D DIN 5040 B31  
F UTE 0.45 G + 0.09 T  
B NBN BZ 5  
RN 17.10717 %  
BLF 1.0

LOR 54.17324 %  
ULOR 9.26751 %  
DLOR 44.90573 %  
UFF 17.10717 %  
DFF 82.89283 %  
FFR 20.63769 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	3.34	3.34	0.62 %	0.62 %
10°	9.90	13.23	1.83 %	2.44 %
15°	16.15	29.39	2.98 %	5.42 %
20°	21.87	51.26	4.04 %	9.46 %
25°	26.88	78.14	4.96 %	14.42 %
30°	31.02	109.15	5.73 %	20.15 %
35°	34.18	143.34	6.31 %	26.46 %
40°	36.26	179.60	6.69 %	33.15 %
45°	37.22	216.82	6.87 %	40.02 %
50°	37.05	253.86	6.84 %	46.86 %
55°	35.73	289.59	6.59 %	53.46 %
60°	33.44	323.03	6.17 %	59.63 %
65°	30.39	353.42	5.61 %	65.24 %
70°	26.75	380.17	4.94 %	70.18 %
75°	22.83	403.00	4.21 %	74.39 %
80°	18.88	421.88	3.49 %	77.88 %
85°	15.17	437.05	2.80 %	80.68 %
90°	12.01	449.06	2.22 %	82.89 %
95°	9.49	458.55	1.75 %	84.65 %
100°	7.62	466.17	1.41 %	86.05 %
105°	6.39	472.57	1.18 %	87.23 %
110°	5.73	478.30	1.06 %	88.29 %
115°	5.46	483.76	1.01 %	89.30 %
120°	5.44	489.20	1.00 %	90.30 %
125°	5.57	494.77	1.03 %	91.33 %
130°	5.73	500.50	1.06 %	92.39 %
135°	5.83	506.32	1.08 %	93.46 %
140°	5.81	512.13	1.07 %	94.54 %
145°	5.66	517.80	1.05 %	95.58 %
150°	5.35	523.15	0.99 %	96.57 %
155°	4.88	528.02	0.90 %	97.47 %
160°	4.79	532.82	0.88 %	98.35 %
165°	4.27	537.08	0.79 %	99.14 %
170°	2.99	540.07	0.55 %	99.69 %
175°	1.39	541.47	0.26 %	99.95 %
180°	0.27	541.73	0.05 %	100.00 %

<b>Luminaire</b>		<b>Measurem.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

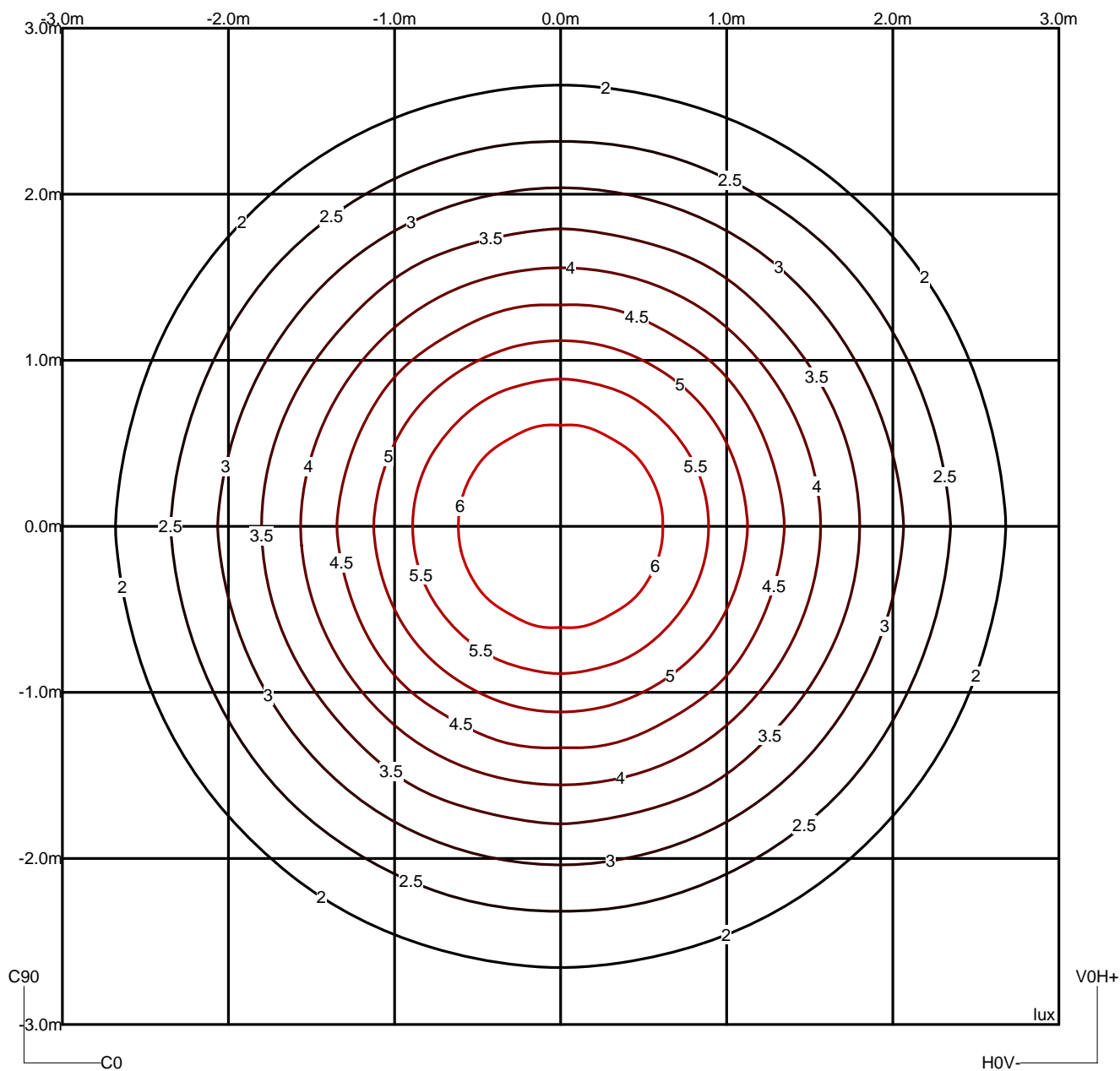
**UGR**  
S = 0.250

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	10.5	11.6	11.0	12.1	12.7	10.4	11.6	10.9	12.1	12.7
x=2H y=3H	12.2	13.2	12.7	13.7	14.2	12.0	13.1	12.6	13.6	14.2
x=2H y=4H	12.9	13.9	13.5	14.5	15.0	12.8	13.7	13.3	14.3	15.0
x=2H y=6H	13.7	14.6	14.3	15.2	15.6	13.4	14.4	14.0	14.9	15.6
x=2H y=8H	14.0	14.9	14.6	15.5	15.9	13.7	14.6	14.3	15.2	15.9
x=2H y=12H	14.3	15.2	14.9	15.8	16.2	14.0	14.9	14.6	15.5	16.2
x=4H y=2H	11.1	12.1	11.7	12.7	13.3	11.1	12.0	11.6	12.6	13.3
x=4H y=3H	12.9	13.8	13.6	14.4	15.0	12.8	13.7	13.5	14.3	15.0
x=4H y=4H	13.8	14.6	14.5	15.2	15.8	13.7	14.5	14.3	15.1	15.8
x=4H y=6H	14.7	15.4	15.4	16.0	16.6	14.5	15.2	15.2	15.8	16.6
x=4H y=8H	15.1	15.7	15.8	16.4	16.9	14.9	15.5	15.6	16.2	16.9
x=4H y=12H	15.5	16.1	16.2	16.7	17.3	15.2	15.8	15.9	16.5	17.3
x=8H y=4H	14.1	14.8	14.8	15.4	16.1	14.0	14.7	14.7	15.3	16.1
x=8H y=6H	15.2	15.7	15.9	16.4	17.0	15.0	15.5	15.7	16.2	17.0
x=8H y=8H	15.7	16.2	16.4	16.9	17.5	15.5	16.0	16.2	16.7	17.5
x=8H y=12H	16.2	16.6	17.0	17.3	18.0	16.0	16.4	16.7	17.1	18.0
x=12H y=4H	14.2	14.7	14.9	15.4	16.1	14.1	14.6	14.7	15.3	16.1
x=12H y=6H	15.3	15.7	16.0	16.4	17.1	15.1	15.6	15.8	16.3	17.1
x=12H y=8H	15.8	16.2	16.6	17.0	17.6	15.7	16.1	16.4	16.8	17.6

<b>Luminaire</b>		<b>Measurem.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

Isolux (Floor)

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





<b>Luminaire</b>		<b>Measurem.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal

Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm
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#### 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	182	163	159	144	155	137	117	100	106	91	85	64	70	48	85	69	61	57	46	58	48	42	35								
0.80	205	188	171	158	179	151	138	121	119	105	96	76	79	58	98	80	72	66	55	69	57	50	41								
1.00	221	206	177	165	196	158	154	137	127	114	104	86	86	66	107	88	81	74	63	77	65	58	46								
1.25	235	221	179	170	211	163	169	154	134	122	111	94	92	74	115	96	89	81	71	85	72	65	51								
1.50	245	233	180	172	222	166	182	167	138	128	116	101	98	81	120	102	96	87	77	92	79	71	56								
2.00	257	247	178	172	236	166	200	187	142	134	123	110	106	91	127	111	105	96	88	101	88	81	62								
2.50	265	257	175	171	245	165	213	201	145	138	127	116	112	99	131	116	112	103	95	107	95	89	66								
3.00	271	264	173	169	252	164	222	212	146	140	130	121	116	104	134	120	116	108	101	112	101	95	70								
4.00	278	272	170	167	261	163	236	227	148	143	134	127	122	113	138	126	122	115	109	118	109	103	74								
5.00	283	278	167	165	266	161	245	237	149	145	137	131	126	118	140	129	127	120	115	122	114	108	77								
10.00	292	289	161	160	277	157	265	260	150	148	143	139	136	131	143	137	135	131	128	132	126	122	84								
20.00	296	295	156	155	283	153	276	274	149	148	145	144	142	139	145	141	140	137	136	137	133	130	88								

#### 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	244	234	216	208	229	204	180	172	164	158	138	130	119	111	154	131	128	114	110	126	110	108	98								
0.80	279	269	241	233	261	227	213	204	190	183	163	154	143	134	177	154	151	136	132	148	132	128	116								
1.00	304	294	256	249	285	243	237	228	208	201	181	172	161	151	194	171	168	153	149	164	148	144	130								
1.25	327	318	270	264	306	256	262	252	224	217	199	190	179	169	209	188	184	170	165	179	164	159	143								
1.50	345	336	280	274	323	266	281	271	237	230	213	204	193	184	221	201	197	184	179	191	177	171	154								
2.00	367	359	289	285	344	277	306	297	251	246	230	222	213	203	235	217	214	202	197	207	193	186	167								
2.50	382	375	296	292	358	284	325	316	262	257	243	235	227	218	245	229	226	215	210	218	206	197	177								
3.00	392	386	300	297	369	288	338	330	269	265	252	245	237	229	252	238	235	225	220	225	215	205	184								
4.00	410	405	309	307	386	298	360	354	282	279	268	262	255	248	265	253	251	242	238	240	230	220	197								
5.00	424	419	317	315	399	307	377	371	293	290	280	275	269	262	276	265	263	255	251	251	243	232	208								
10.00	460	458	341	340	436	331	422	418	323	322	315	312	308	304	306	299	298	293	290	284	279	266	239								
20.00	488	487	362	361	464	352	456	453	348	347	343	341	338	336	330	326	326	322	321	311	307	293	265								

#### Working Pl.

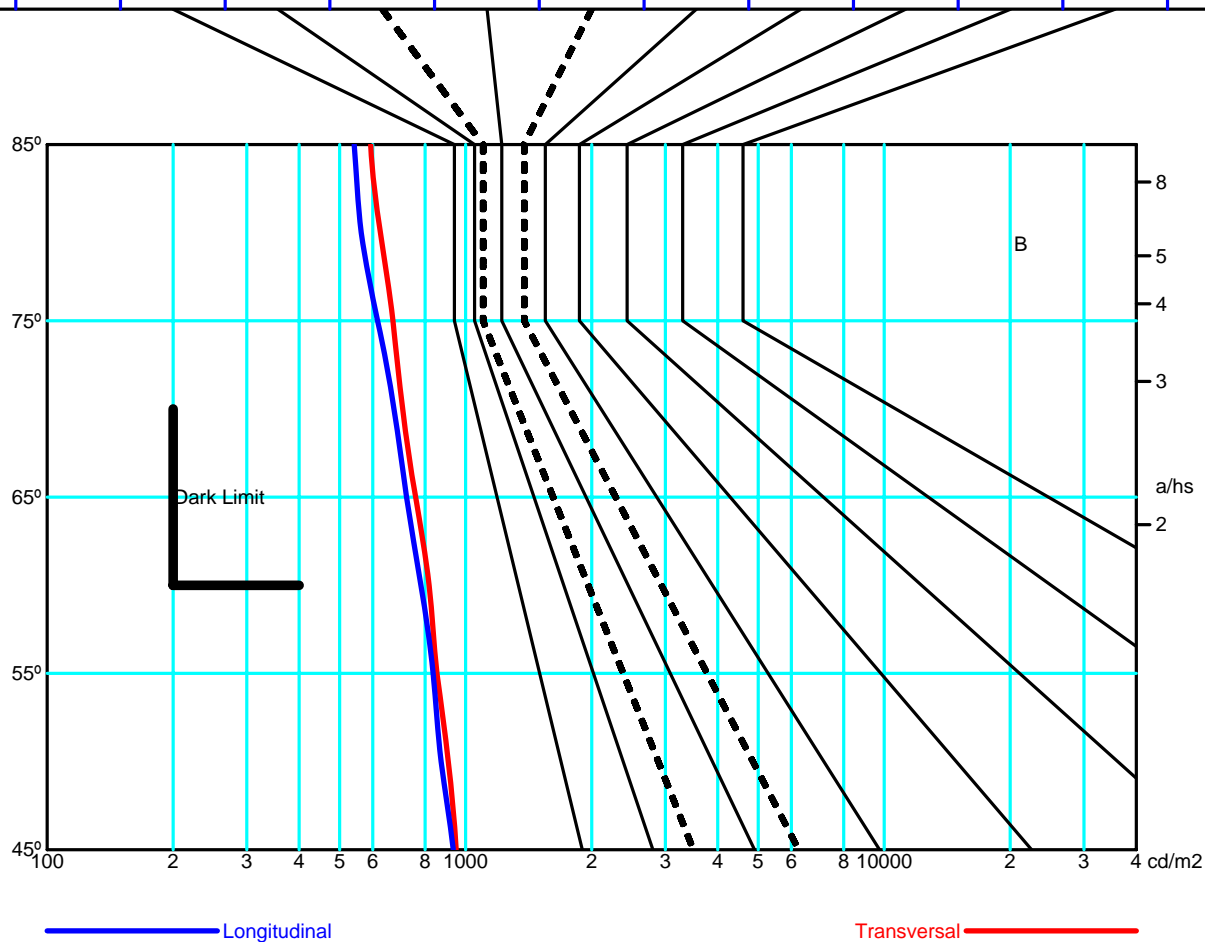
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000								
0.60	287	277	268	259	270	254	211	203	203	196	169	161	144	137	191	161	158	139	135	156	135	132	123								
0.80	343	331	316	307	321	299	261	251	249	241	213	203	186	176	233	202	198	178	173	194	173	168	158								
1.00	387	375	352	344	362	334	303	292	286	278	251	239	223	212	268	237	233	213	207	227	206	200	189								
1.25	429	417	386	378	401	367	344	332	323	314	288	276	260	248	301	272	267	248	242	260	239	231	220								
1.50	460	449	411	404	431	392	377	365	350	341	317	305	290	277	327	299	294	276	269	285	265	255	244								
2.00	506	496	446	440	475	427	415	391	383	361	350	336	323	365	341	336	320	312	324	306	294	282									
2.50	537	528	469	463	504	449	461	449	418	411	392	380	369	355	391	369	365	350	343	350	334	320	308								
3.00	559	551	484	480	525	465	486	475	437	431	413	403	392	380	409	390	385	372	365	369	354	339	326								
4.00	587	580	503	500	552	484	519	510	462	457	442	433	424	412	433	416	413	401	395	394	381	363	351								
5.00	604	599	515	512	569	497	540	532	477	473	460	452	444	434	448	433	430	420	415	409	398	379	366								
10.00	643	640	540	538	606	522	589	584	511	509	501	496	491	484	480	472	470	463	460	445	438	415	401								
20.00	664	663	553	553	627	537	617	615	530	529	524	522	519	515	499	494	493	490	488	466	462	436	423								

LM53 SHR C0-C180: 1.274 SHR C90-C270: 1.262 SHR Square: 1.396

<b>Luminaire</b>		<b>Measur.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

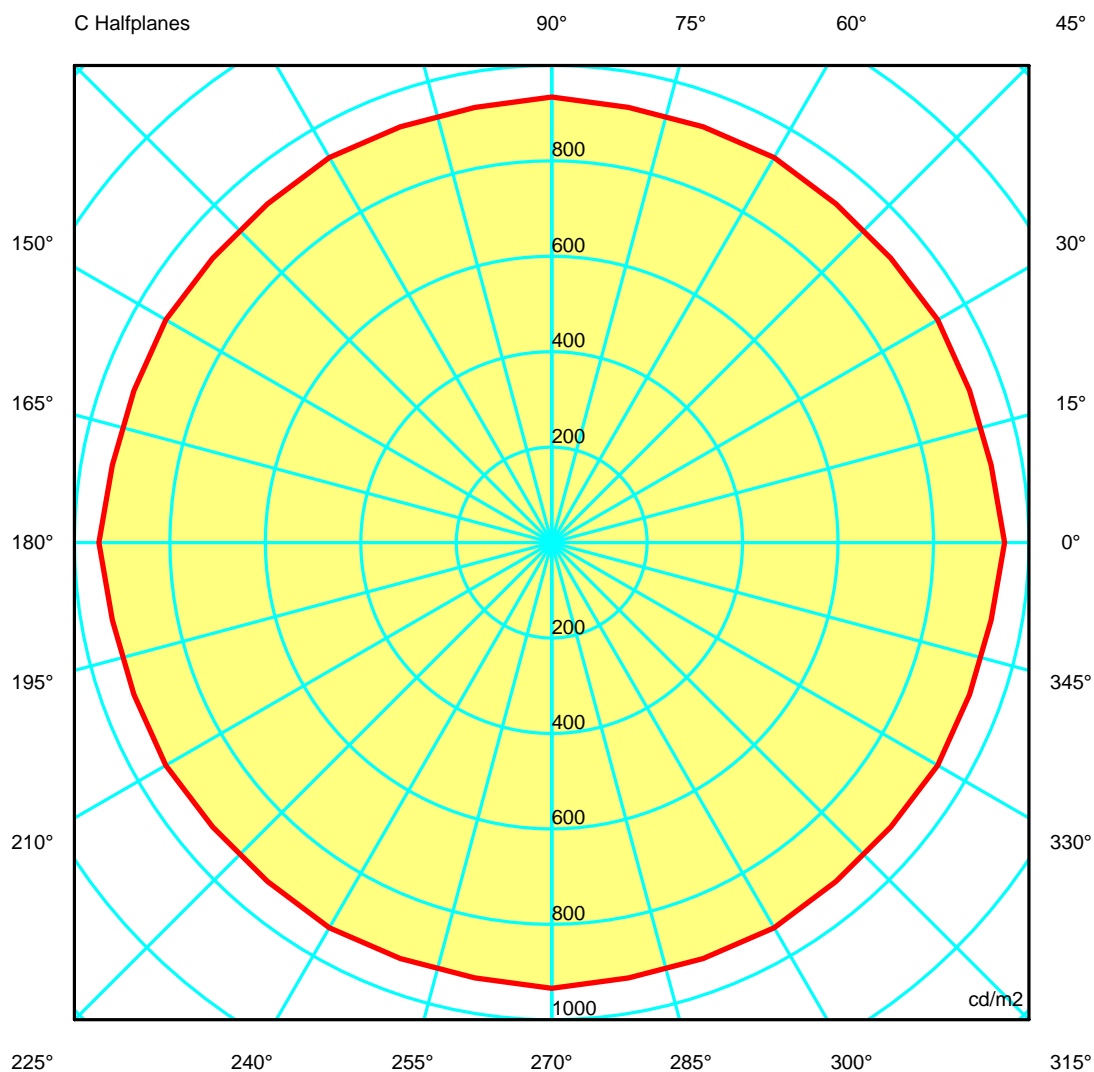
	Average Luminance [cd/m²]									
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0°	949.0	910.2	854.2	817.6	759.4	706.8	670.2	625.6	593.3	---
90°	934.1	873.8	836.0	782.1	722.6	674.9	615.9	563.2	541.5	---

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



<b>Luminaire</b>		<b>Measur.</b>		<b>Lamp</b>	
Code	5410	Code	5410	Code	65940
Name	Single ceiling lamp d/24 hal.	Name	Single ceiling lamp d/24 hal.	Number	1
Line	VIBIA-Puck	Date	30-05-2012	Position	Universal
Efficiency	54.17%	Coordinate system	C-G	Total Flux	420.00 lm

Luminance												
G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	1255.72	1255.72	1255.72	1255.72	1255.72	1255.72	1255.72	1255.72	1255.72	1255.72	1255.72	1255.72
5°	1219.05	1223.19	1219.93	1220.71	1219.93	1223.19	1219.05	1223.19	1219.93	1220.71	1219.93	1223.19
10°	1188.09	1189.84	1186.27	1186.11	1186.27	1189.84	1188.09	1189.84	1186.27	1186.11	1186.27	1189.84
15°	1157.15	1156.59	1156.48	1155.77	1156.48	1156.59	1157.15	1156.59	1156.48	1155.77	1156.48	1156.59
20°	1124.77	1121.24	1119.46	1120.93	1119.46	1121.24	1124.77	1121.24	1119.46	1120.93	1119.46	1121.24
25°	1091.01	1084.90	1083.96	1082.40	1083.96	1084.90	1091.01	1084.90	1083.96	1082.40	1083.96	1084.90
30°	1055.25	1047.04	1055.12	1051.49	1055.12	1047.04	1055.25	1047.04	1055.12	1051.49	1055.12	1047.04
35°	1029.44	1008.60	1011.97	1010.83	1011.97	1008.60	1029.44	1008.60	1011.97	1010.83	1011.97	1008.60
40°	987.67	970.28	971.10	969.90	971.10	970.28	987.67	970.28	971.10	969.90	971.10	970.28
45°	949.04	933.80	931.93	934.11	931.93	933.80	949.04	933.80	931.93	934.11	931.93	933.80
50°	910.20	884.58	880.73	873.84	880.73	884.58	910.20	884.58	880.73	873.84	880.73	884.58
55°	854.17	839.98	836.00	835.99	836.00	839.98	854.17	839.98	836.00	835.99	836.00	839.98
60°	817.60	792.17	780.29	782.15	780.29	792.17	817.60	792.17	780.29	782.15	780.29	792.17
65°	759.37	730.10	724.08	722.60	724.08	730.10	759.37	730.10	724.08	722.60	724.08	730.10
70°	706.76	681.98	679.20	674.90	679.20	681.98	706.76	681.98	679.20	674.90	679.20	681.98
75°	670.20	626.40	623.37	615.86	623.37	626.40	670.20	626.40	623.37	615.86	623.37	626.40
80°	625.61	583.20	566.73	563.25	566.73	583.20	625.61	583.20	566.73	563.25	566.73	583.20
85°	593.27	556.35	540.93	541.45	540.93	556.35	593.27	556.35	540.93	541.45	540.93	556.35
90°	610.91	550.92	530.62	517.81	530.62	550.92	610.91	550.92	530.62	517.81	530.62	550.92



45.0°