bover
barcelona lights

Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminaria Redonda	Diam. 490 mm	Altura	775 mm
Área Luminosa Redonda	Diam. 490 mm	Altura	675 mm
Área Luminosa Horizontal	0.188574 m2	Área Emisión sobre Pl. 180°	0.330750 m2
Área Emisión sobre Pl. 0°	0.330750 m2	Área Emisión sobre Pl. 270°	0.330750 m2
Área Emisión sobre Pl. 90°	0.330750 m2	Área de deslumbramiento a 76°	0.366546 m2

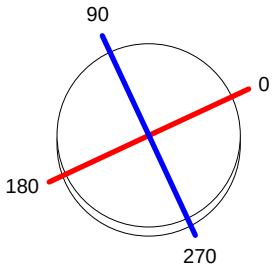
Sist. de Coorden.	CG	Tipo de Simetría	Asimétrico
Fecha	11-01-2016	Máximo Ángulo Gamma	180
Distancia de Ensayo	6.44	Flujo de Ensayo	2488.00 lm
Operador	Asselum T2	Tensión de alimentación	
Temperatura	25.00 °C	Corriente de alimentación	
Humedad	56.00 %	Fotocélula	Prc
Notas			

Lámparas de la Luminaria

Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
PHILIPS 2005 ILCOS FBT,G,C,FSQ	PL ELECT pro20W/827	PL electr pro 20W/827 E27	1200.00	20.00	2

C.I.E.	47 74 89 50 13	D DIN 5040	C31
F UTE	0.06 E + 0.06 T	B NBN	BZ 5

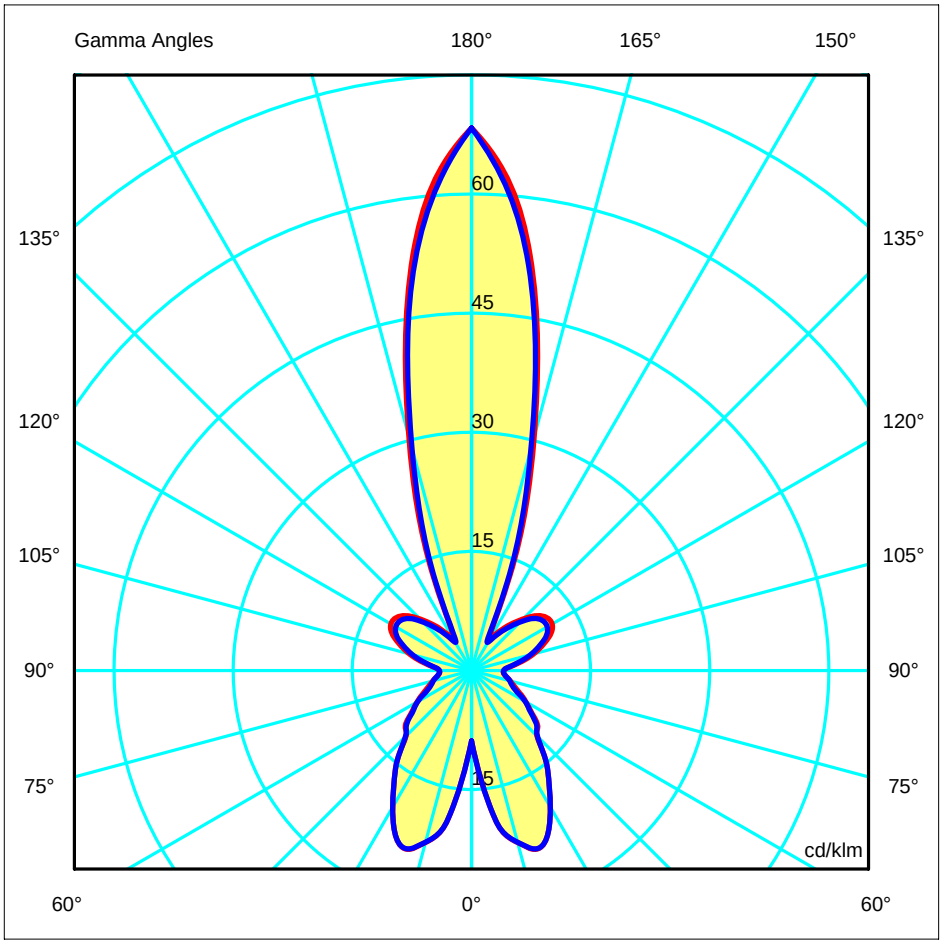
Diam=490mm



C Halfplanes

180.0 — 0.0

270.0 — 90.0



ULOR	6.23 %
DLOR	6.29 %
RN	49.77 %

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Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Tabla de Intensidad Luminosa cd/klm **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00
G 0.0	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87
G 5.0	13.75	14.27	13.74	16.67	14.84	18.85	13.77	18.85	14.84	16.67	13.74	14.27
G 10.0	19.96	18.08	17.32	20.09	20.64	23.83	19.94	23.83	20.64	20.09	17.32	18.08
G 15.0	22.40	21.10	20.51	21.82	22.83	24.74	22.36	24.74	22.83	21.82	20.51	21.10
G 20.0	23.95	21.91	21.51	21.46	21.92	24.38	23.90	24.38	21.92	21.46	21.51	21.91
G 25.0	22.72	19.87	21.52	20.58	22.54	21.94	22.72	21.94	22.54	20.58	21.52	19.87
G 30.0	19.86	18.01	20.40	19.48	20.53	19.67	19.88	19.67	20.53	19.48	20.40	18.01
G 35.0	16.96	16.58	17.57	17.52	17.26	17.07	16.97	17.07	17.26	17.52	17.57	16.58
G 40.0	14.45	14.39	15.28	14.29	14.48	14.48	14.43	14.48	14.48	14.29	15.28	14.39
G 45.0	11.65	12.39	13.26	12.24	12.56	12.19	11.73	12.19	12.56	12.24	13.26	12.39
G 50.0	10.89	11.01	11.64	10.98	11.17	10.53	10.71	10.53	11.17	10.98	11.64	11.01
G 55.0	9.23	9.57	9.98	9.42	9.66	8.67	9.04	8.67	9.66	9.42	9.98	9.57
G 60.0	7.93	7.96	8.27	7.92	8.11	7.31	7.83	7.31	8.11	7.92	8.27	7.96
G 65.0	6.71	6.69	6.55	6.57	6.70	6.22	6.28	6.22	6.70	6.57	6.55	6.69
G 70.0	5.70	5.68	5.61	5.57	5.52	5.55	5.43	5.55	5.52	5.57	5.61	5.68
G 75.0	5.05	4.99	4.94	4.98	4.96	5.02	4.98	5.02	4.96	4.98	4.94	4.99
G 80.0	4.44	4.46	4.46	4.50	4.52	4.56	4.46	4.56	4.52	4.50	4.46	4.46
G 85.0	4.05	3.99	4.02	4.09	4.12	4.11	4.09	4.11	4.12	4.09	4.02	3.99
G 90.0	4.06	3.98	3.98	4.01	4.04	3.99	4.04	3.99	4.04	4.01	3.98	3.98
G 95.0	4.73	4.68	4.63	4.60	4.62	4.59	4.58	4.59	4.62	4.60	4.63	4.68
G100.0	6.36	6.26	6.14	6.17	6.09	6.18	6.08	6.18	6.09	6.17	6.14	6.26
G105.0	8.09	8.12	7.89	7.89	7.79	7.82	7.70	7.82	7.79	7.89	7.89	8.12
G110.0	9.62	9.74	9.49	9.53	9.33	9.39	9.11	9.39	9.33	9.53	9.49	9.74
G115.0	11.04	10.95	10.65	10.82	10.55	10.64	10.42	10.64	10.55	10.82	10.65	10.95
G120.0	11.72	11.61	11.38	11.51	11.25	11.30	11.00	11.30	11.25	11.51	11.38	11.61
G125.0	11.61	11.49	11.34	11.41	11.20	11.24	10.96	11.24	11.20	11.41	11.34	11.49
G130.0	10.76	10.57	10.48	10.62	10.31	10.31	10.18	10.31	10.31	10.62	10.48	10.57
G135.0	9.19	9.09	9.12	9.10	8.94	8.78	8.64	8.78	8.94	9.10	9.12	9.09
G140.0	7.55	7.34	7.37	7.36	7.14	7.10	6.97	7.10	7.14	7.36	7.37	7.34
G145.0	5.95	5.79	5.73	5.69	5.52	5.45	5.40	5.45	5.52	5.69	5.73	5.79
G150.0	4.77	4.67	4.60	4.49	4.32	4.24	4.10	4.24	4.32	4.49	4.60	4.67
G155.0	7.01	7.30	7.44	7.55	6.87	6.92	6.35	6.92	6.87	7.55	7.44	7.30
G160.0	17.86	17.23	16.16	17.07	16.58	16.44	16.60	16.44	16.58	17.07	16.16	17.23
G165.0	30.44	30.65	30.67	30.12	29.98	30.08	28.91	30.08	29.98	30.12	30.67	30.65
G170.0	46.69	45.57	44.40	44.99	44.55	45.48	45.46	45.48	44.55	44.99	44.40	45.57
G175.0	60.52	60.72	59.25	59.95	59.62	60.02	59.20	60.02	59.62	59.95	59.25	60.72
G180.0	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32

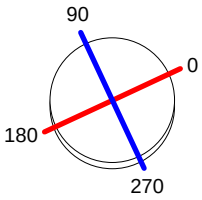
	C 180.00	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00
G 0.0	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87	8.87
G 5.0	13.75	14.27	13.74	16.67	14.84	18.85	13.77	18.85	14.84	16.67	13.74	14.27
G 10.0	19.96	18.08	17.32	20.09	20.64	23.83	19.94	23.83	20.64	20.09	17.32	18.08
G 15.0	22.40	21.10	20.51	21.82	22.83	24.74	22.36	24.74	22.83	21.82	20.51	21.10
G 20.0	23.95	21.91	21.51	21.46	21.92	24.38	23.90	24.38	21.92	21.46	21.51	21.91
G 25.0	22.72	19.87	21.52	20.58	22.54	21.94	22.72	21.94	22.54	20.58	21.52	19.87
G 30.0	19.86	18.01	20.40	19.48	20.53	19.67	19.88	19.67	20.53	19.48	20.40	18.01
G 35.0	16.96	16.58	17.57	17.52	17.26	17.07	16.97	17.07	17.26	17.52	17.57	16.58
G 40.0	14.45	14.39	15.28	14.29	14.48	14.48	14.43	14.48	14.48	14.29	15.28	14.39
G 45.0	11.65	12.39	13.26	12.24	12.56	12.19	11.73	12.19	12.56	12.24	13.26	12.39
G 50.0	10.89	11.01	11.64	10.98	11.17	10.53	10.71	10.53	11.17	10.98	11.64	11.01
G 55.0	9.23	9.57	9.98	9.42	9.66	8.67	9.04	8.67	9.66	9.42	9.98	9.57
G 60.0	7.93	7.96	8.27	7.92	8.11	7.31	7.83	7.31	8.11	7.92	8.27	7.96
G 65.0	6.71	6.69	6.55	6.57	6.70	6.22	6.28	6.22	6.70	6.57	6.55	6.69
G 70.0	5.70	5.68	5.61	5.57	5.52	5.55	5.43	5.55	5.52	5.57	5.61	5.68
G 75.0	5.05	4.99	4.94	4.98	4.96	5.02	4.98	5.02	4.96	4.98	4.94	4.99
G 80.0	4.44	4.46	4.46	4.50	4.52	4.56	4.46	4.56	4.52	4.50	4.46	4.46
G 85.0	4.05	3.99	4.02	4.09	4.12	4.11	4.09	4.11	4.12	4.09	4.02	3.99
G 90.0	4.06	3.98	3.98	4.01	4.04	3.99	4.04	3.99	4.04	4.01	3.98	3.98
G 95.0	4.73	4.68	4.63	4.60	4.62	4.59	4.58	4.59	4.62	4.60	4.63	4.68
G100.0	6.36	6.26	6.14	6.17	6.09	6.18	6.08	6.18	6.09	6.17	6.14	6.26
G105.0	8.09	8.12	7.89	7.89	7.79	7.82	7.70	7.82	7.79	7.89	7.89	8.12
G110.0	9.62	9.74	9.49	9.53	9.33	9.39	9.11	9.39	9.33	9.53	9.49	9.74
G115.0	11.04	10.95	10.65	10.82	10.55	10.64	10.42	10.64	10.55	10.82	10.65	10.95
G120.0	11.72	11.61	11.38	11.51	11.25	11.30	11.00	11.30	11.25	11.51	11.38	11.61
G125.0	11.61	11.49	11.34	11.41	11.20	11.24	10.96	11.24	11.20	11.41	11.34	11.49
G130.0	10.76	10.57	10.48	10.62	10.31	10.31	10.18	10.31	10.31	10.62	10.48	10.57
G135.0	9.19	9.09	9.12	9.10	8.94	8.78	8.64	8.78	8.94	9.10	9.12	9.09
G140.0	7.55	7.34	7.37	7.36	7.14	7.10	6.97	7.10	7.14	7.36	7.37	7.34
G145.0	5.95	5.79	5.73	5.69	5.52	5.45	5.40	5.45	5.52	5.69	5.73	5.79
G150.0	4.77	4.67	4.60	4.49	4.32	4.24	4.10	4.24	4.32	4.49	4.60	4.67
G155.0	7.01	7.30	7.44	7.55	6.87	6.92	6.35	6.92	6.87	7.55	7.44	7.30
G160.0	17.86	17.23	16.16	17.07	16.58	16.44	16.60	16.44	16.58	17.07	16.16	17.23
G165.0	30.44	30.65	30.67	30.12	29.98	30.08	28.91	30.08	29.98	30.12	30.67	30.65
G170.0	46.69	45.57	44.40	44.99	44.55	45.48	45.46	45.48	44.55	44.99	44.40	45.57
G175.0	60.52	60.72	59.25	59.95	59.62	60.02	59.20	60.02	59.62	59.95	59.25	60.72
G180.0	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32	68.32

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Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

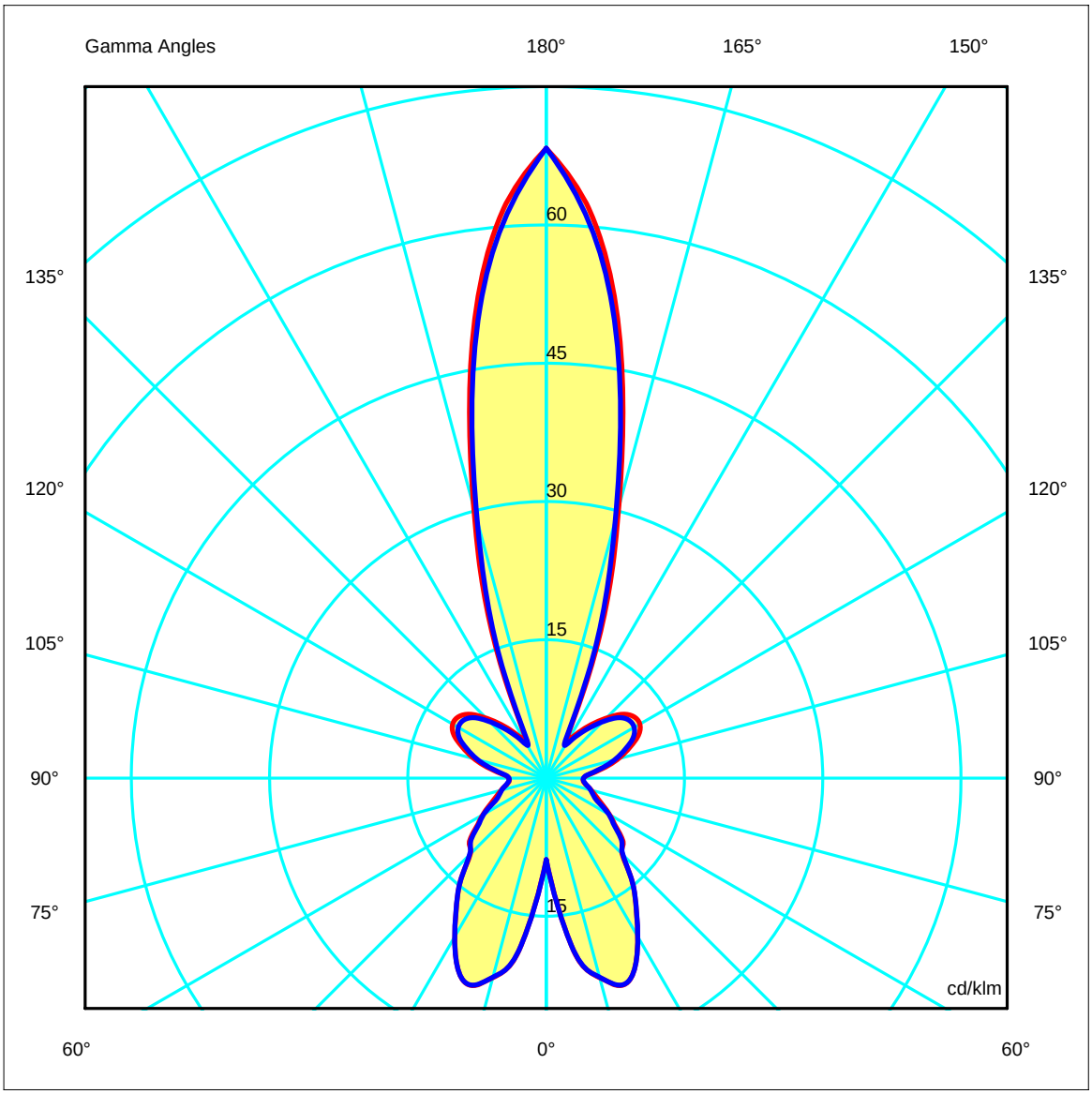
Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Diam=490mm



C Halfplanes



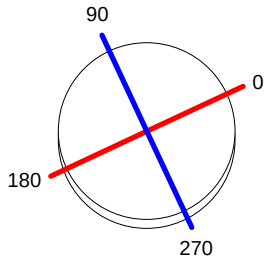


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Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

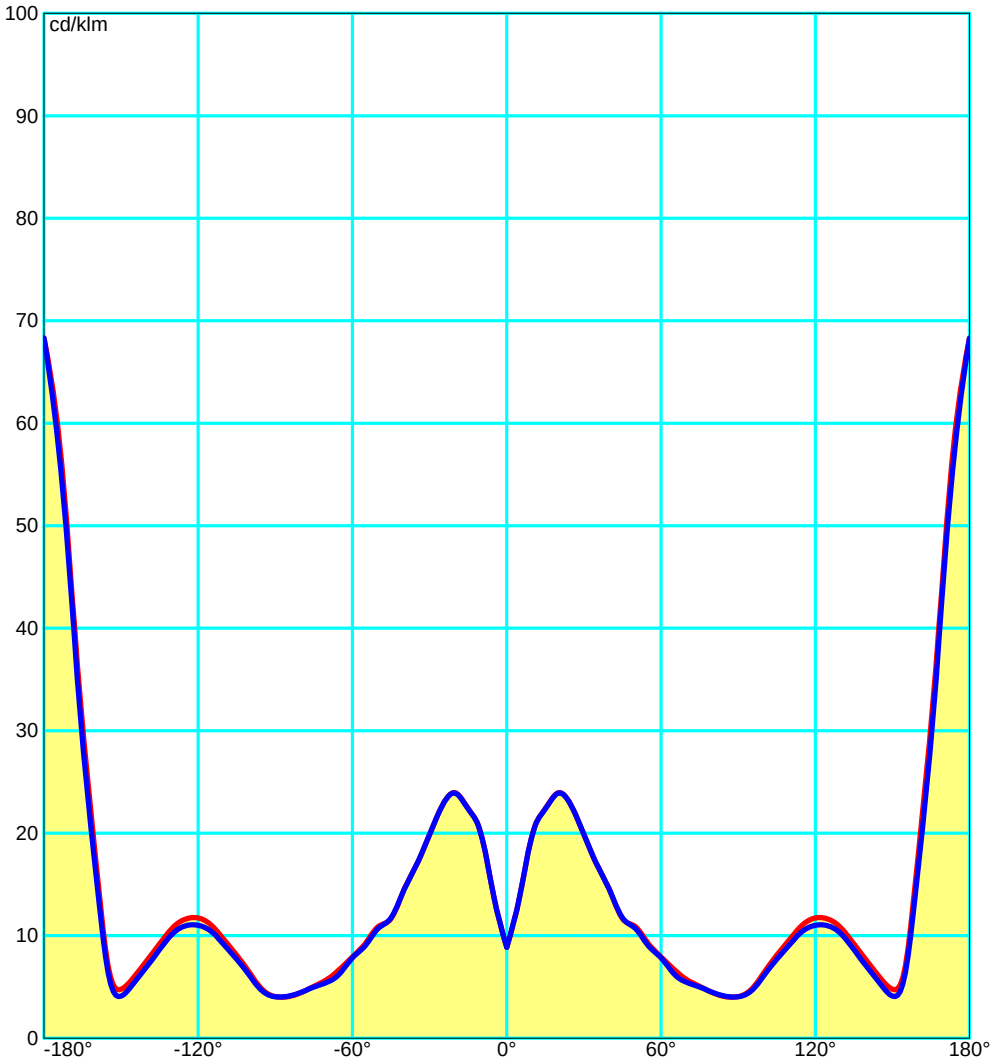
Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Diam=490mm



C Halfplanes





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Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Total Flux=2400.00 Luminaire Flux=300.36

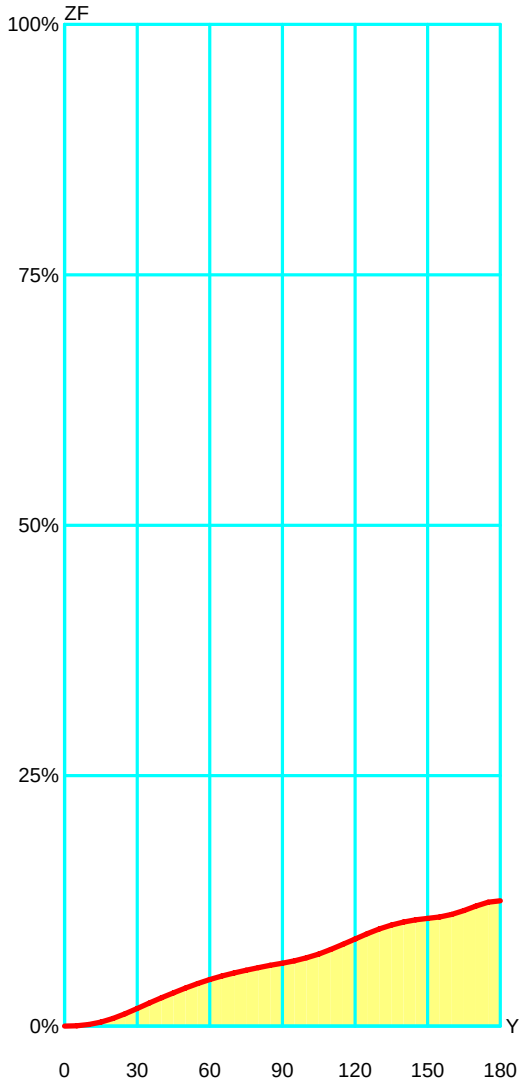
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.31	0.39	0.45	0.52	0.57	0.65	0.70	0.74	0.79	0.82	0.89	0.94
RC	5	5	5	5	5	6	6	6	6	6	7	7

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)	2	8	18	28	38	46	53	58	63	68	76	87	97	104	108	112	120	125

CIE Flux Codes
47 74 89 50 13

C.I.E.	5/5/5/5/5/6/6/6/6/7/7	LOR	12.51518 %
D DIN 5040	C31	ULOR	6.22836 %
F UTE	0.06 E + 0.06 T	DLOR	6.28683 %
B NBN	BZ 5	UFF	49.76640 %
RN	49.76640 %	DFF	50.23360 %
BLF	1.0	FFR	99.06993 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	0.29	0.29	0.23 %	0.23 %
10°	1.26	1.55	1.01 %	1.24 %
15°	2.50	4.06	2.00 %	3.24 %
20°	3.69	7.75	2.95 %	6.19 %
25°	4.62	12.37	3.69 %	9.88 %
30°	5.21	17.58	4.16 %	14.04 %
35°	5.42	23.00	4.33 %	18.38 %
40°	5.29	28.29	4.23 %	22.61 %
45°	4.99	33.28	3.99 %	26.59 %
50°	4.73	38.01	3.78 %	30.37 %
55°	4.44	42.45	3.55 %	33.92 %
60°	4.00	46.45	3.20 %	37.12 %
65°	3.51	49.97	2.81 %	39.92 %
70°	3.07	53.04	2.45 %	42.38 %
75°	2.76	55.80	2.21 %	44.58 %
80°	2.54	58.33	2.03 %	46.61 %
85°	2.33	60.66	1.86 %	48.47 %
90°	2.21	62.87	1.77 %	50.23 %
95°	2.36	65.23	1.89 %	52.12 %
100°	2.94	68.17	2.35 %	54.47 %
105°	3.77	71.94	3.01 %	57.48 %
110°	4.54	76.48	3.63 %	61.11 %
115°	5.11	81.59	4.09 %	65.20 %
120°	5.38	86.97	4.30 %	69.49 %
125°	5.25	92.22	4.20 %	73.69 %
130°	4.74	96.96	3.79 %	77.48 %
135°	3.93	100.89	3.14 %	80.62 %
140°	3.01	103.90	2.40 %	83.02 %
145°	2.15	106.06	1.72 %	84.74 %
150°	1.49	107.54	1.19 %	85.93 %
155°	1.47	109.01	1.17 %	87.10 %
160°	2.51	111.52	2.00 %	89.11 %
165°	3.87	115.39	3.09 %	92.20 %
170°	4.47	119.86	3.57 %	95.77 %
175°	3.76	123.62	3.00 %	98.78 %
180°	1.53	125.15	1.22 %	100.00 %

bover
barcelona lights

Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

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	< 0	< 0	< 0	0.6	1.5	< 0	< 0	< 0	0.4	1.5
x=2H y=3H	< 0	0.7	0.9	1.7	2.6	< 0	0.5	0.7	1.4	2.6
x=2H y=4H	0.6	1.3	1.5	2.3	3.1	0.4	1.1	1.3	2.0	3.1
x=2H y=6H	1.2	1.8	2.1	2.7	3.8	1.0	1.6	1.9	2.5	3.8
x=2H y=8H	1.4	2.0	2.4	3.1	4.0	1.3	1.9	2.2	2.9	4.0
x=2H y=12H	1.7	2.3	2.7	3.3	4.4	1.6	2.2	2.6	3.2	4.4
x=4H y=2H	< 0	0.0	0.2	0.9	1.9	< 0	< 0	0.0	0.8	1.9
x=4H y=3H	0.6	1.2	1.6	2.2	3.2	0.4	1.0	1.4	2.0	3.2
x=4H y=4H	1.3	1.9	2.3	2.8	3.9	1.2	1.7	2.2	2.6	3.9
x=4H y=6H	2.1	2.5	3.0	3.5	4.7	2.0	2.4	2.9	3.4	4.7
x=4H y=8H	2.4	2.9	3.5	3.9	5.1	2.4	2.8	3.4	3.8	5.1
x=4H y=12H	2.8	3.2	3.8	4.1	5.4	2.8	3.1	3.8	4.1	5.4
x=8H y=4H	1.6	2.0	2.6	3.0	4.2	1.4	1.9	2.5	2.9	4.2
x=8H y=6H	2.5	2.9	3.6	3.9	5.2	2.5	2.8	3.5	3.8	5.2
x=8H y=8H	3.0	3.3	4.0	4.3	5.6	3.0	3.2	4.0	4.3	5.6
x=8H y=12H	3.6	3.8	4.6	4.8	6.2	3.6	3.8	4.6	4.8	6.2
x=12H y=4H	1.6	2.0	2.6	2.9	4.1	1.5	1.8	2.5	2.8	4.1
x=12H y=6H	2.6	2.9	3.6	3.9	5.2	2.5	2.8	3.5	3.8	5.2
x=12H y=8H	3.2	3.5	4.2	4.5	5.9	3.2	3.4	4.2	4.4	5.9

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Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Utilización CIE

Montaje Directo Normalización Normalizados Raz. de Susp. 1/3 CIE Estándar

Techo

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	69	62	64	58	59	55	52	44	50	42	46	35	43	29	40	37	33	35	28	31	30	26	23
0.80	76	70	69	64	66	61	59	51	55	48	51	40	47	35	45	42	38	40	33	36	34	30	28
1.00	81	75	72	67	72	64	64	57	58	53	54	45	51	39	49	46	42	44	37	40	38	34	31
1.25	85	80	74	70	77	67	69	62	62	56	57	49	54	43	53	50	46	47	41	44	42	38	35
1.50	89	84	75	72	80	69	72	67	64	59	59	52	56	46	56	52	49	50	44	47	45	41	37
2.00	93	89	76	73	85	71	78	73	66	63	62	56	59	51	59	56	54	54	49	51	49	46	42
2.50	95	92	76	74	88	72	82	77	68	65	64	59	61	54	62	59	57	57	52	54	52	49	44
3.00	97	94	76	75	90	73	84	81	69	66	66	61	63	57	63	61	59	59	55	57	55	51	47
4.00	100	97	76	75	93	73	88	85	70	68	68	64	65	60	65	63	62	61	58	60	58	55	50
5.00	101	99	76	75	95	74	91	88	71	69	69	66	67	62	67	65	64	63	61	62	60	57	52
10.00	104	103	76	75	99	74	96	95	73	72	71	70	70	68	70	68	68	67	66	66	65	63	57
20.00	105	105	75	75	101	74	99	99	73	73	73	72	72	70	71	70	70	70	69	68	68	66	59

Pared

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	48	44	42	39	42	37	33	29	30	27	25	21	22	17	25	21	20	18	16	19	16	15	13
0.80	55	52	47	44	49	42	40	36	35	32	30	25	26	21	29	26	24	23	20	22	20	18	15
1.00	61	57	51	48	54	45	45	41	39	36	34	29	30	24	33	29	27	26	23	25	22	20	17
1.25	66	63	54	52	58	49	50	46	42	39	38	33	34	28	36	32	30	29	26	28	25	22	19
1.50	70	67	56	54	62	51	54	50	45	42	41	36	37	31	38	34	33	32	29	30	27	24	20
2.00	75	72	59	57	67	54	60	56	49	46	45	40	41	36	41	38	36	35	32	32	30	26	22
2.50	79	76	61	59	70	55	64	61	51	49	47	44	44	39	43	40	39	38	35	35	33	28	24
3.00	81	79	62	61	73	57	67	64	53	51	50	46	47	42	45	42	41	40	38	36	34	29	25
4.00	86	84	64	63	77	59	72	69	56	54	53	50	51	47	48	46	44	44	41	39	37	32	27
5.00	89	87	66	65	80	61	76	73	58	57	56	53	54	50	50	48	47	46	44	41	40	34	29
10.00	97	96	71	71	88	67	85	84	65	64	63	62	62	60	57	55	55	54	53	48	47	40	34
20.00	103	103	76	76	94	72	93	92	71	70	70	69	69	67	62	61	61	61	60	54	53	46	39

P.Trab.

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	58	54	55	51	52	49	41	38	40	36	33	29	29	24	34	29	28	25	23	26	23	21	20
0.80	71	66	65	61	63	58	51	47	49	45	42	37	38	32	42	37	35	33	30	33	29	27	24
1.00	80	76	73	70	71	66	60	55	57	53	50	44	45	38	48	43	41	39	36	38	35	31	29
1.25	90	85	81	77	80	73	69	64	64	60	58	52	53	45	55	50	47	46	42	43	40	36	33
1.50	97	93	86	83	86	78	76	71	70	66	64	58	59	51	59	55	52	51	47	47	44	39	36
2.00	107	103	94	91	95	86	86	81	79	75	73	67	68	61	67	63	60	59	55	54	51	44	41
2.50	114	110	99	97	102	91	93	89	85	81	79	74	75	68	72	68	66	65	61	58	56	48	44
3.00	119	116	103	101	106	94	99	95	89	86	84	79	80	73	76	72	70	69	65	62	59	51	46
4.00	125	123	107	106	112	99	106	102	94	92	90	86	87	81	80	77	76	75	71	66	64	54	49
5.00	129	127	110	109	116	101	111	107	98	96	94	90	91	86	83	81	79	78	75	69	67	57	51
10.00	138	137	116	115	125	107	121	119	105	104	103	101	101	98	90	89	88	87	85	75	74	62	56
20.00	143	142	119	119	129	111	127	126	109	109	108	107	107	105	94	93	93	92	91	79	79	65	59

LM53 SHR C0-C180: 1.931 SHR C90-C270: 1.931 SHR Superficial: 1.870

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Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

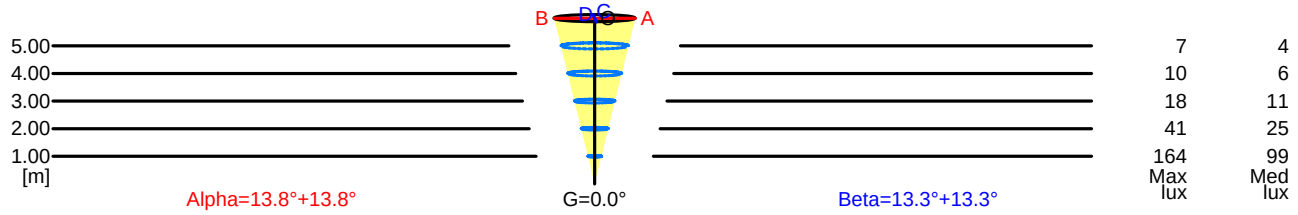
Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Apertura a 50.00 % de Max Intensidad

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	0.25	0.49	0.74	0.98	1.23	OC	0.24	0.47	0.71	0.95	1.19
OB	0.25	0.49	0.74	0.98	1.23	OD	0.24	0.47	0.71	0.95	1.19

Intensidades Luminosas [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	163.97	145.26	73.06	16.82	14.28	22.04	27.86	26.49	19.43	11.34
OB	163.97	145.26	73.06	16.82	14.28	22.04	27.86	26.49	19.43	11.34
OC	163.97	142.09	69.40	15.25	12.95	20.73	26.29	25.01	18.48	10.99
OD	163.97	142.09	69.40	15.25	12.95	20.73	26.29	25.01	18.48	10.99



5.00	2.45	7	4	
4.00	1.96	10	6	
3.00	1.47	18	11	
2.00	0.98	41	25	
1.00	0.49	164	99	
H[m]	D[m]	Max lux	Med lux	Alpha=13.8°+13.8° G=0.0

5.00	2.37	7	4	
4.00	1.90	10	6	
3.00	1.42	18	11	
2.00	0.95	41	25	
1.00	0.47	164	99	
H[m]	D[m]	Max lux	Med lux	Beta=13.3°+13.3° G=0.0

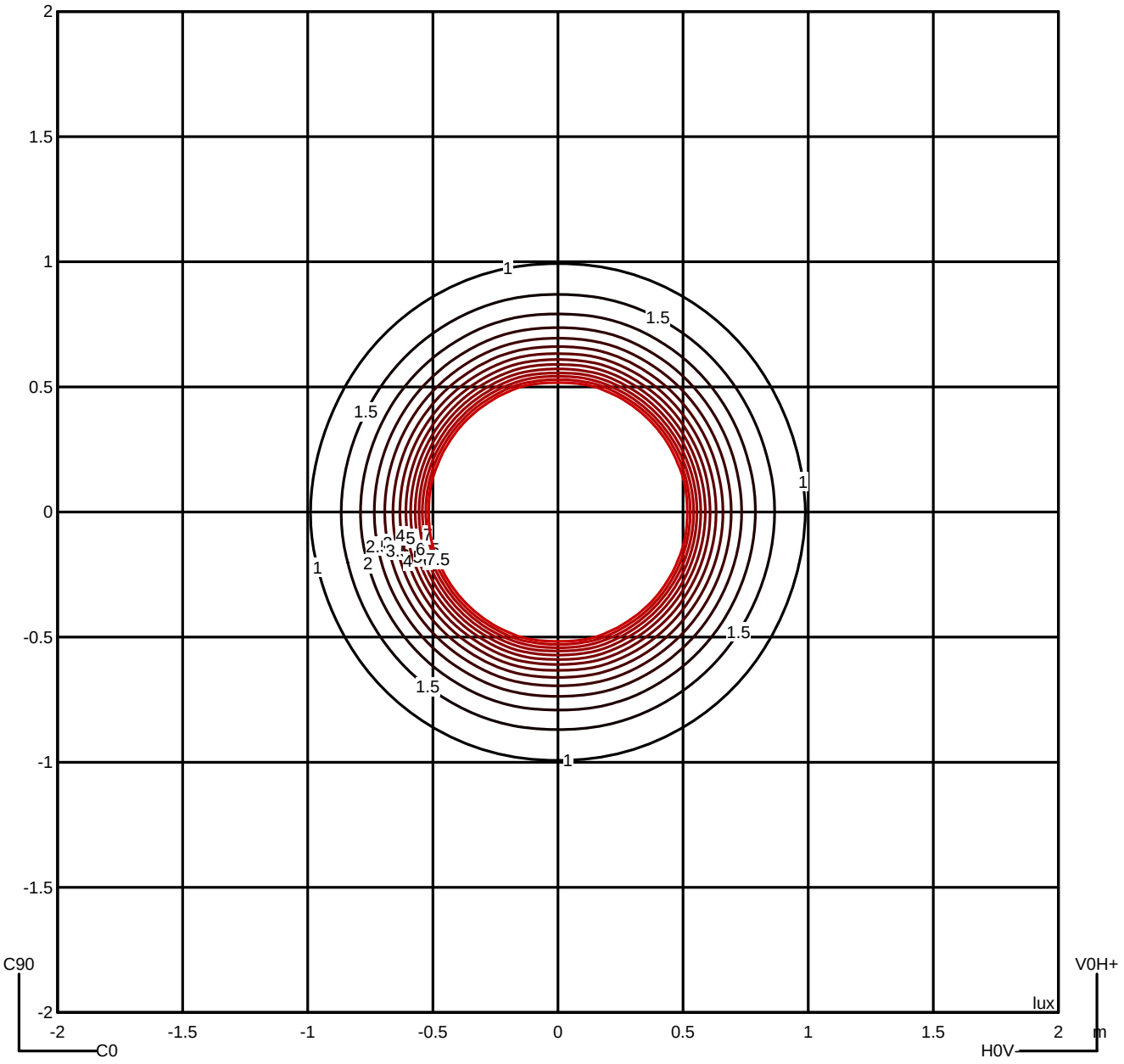
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Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=0.10m



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Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

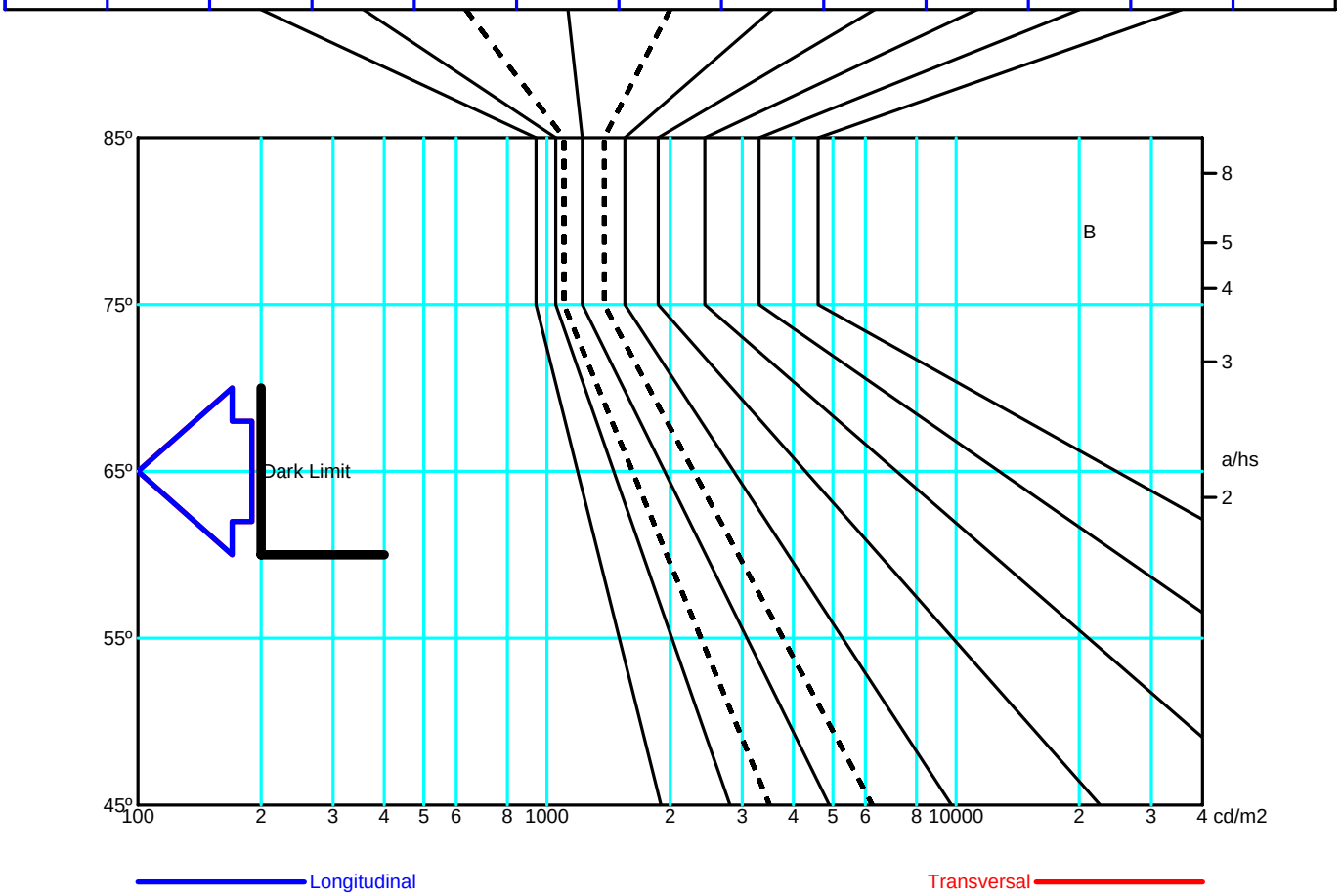
Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminancia Media [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	76	70	58	50	42	36	33	30	28	---
90.0°	77	69	57	49	40	35	32	30	28	---

Flush mounted or transveral 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

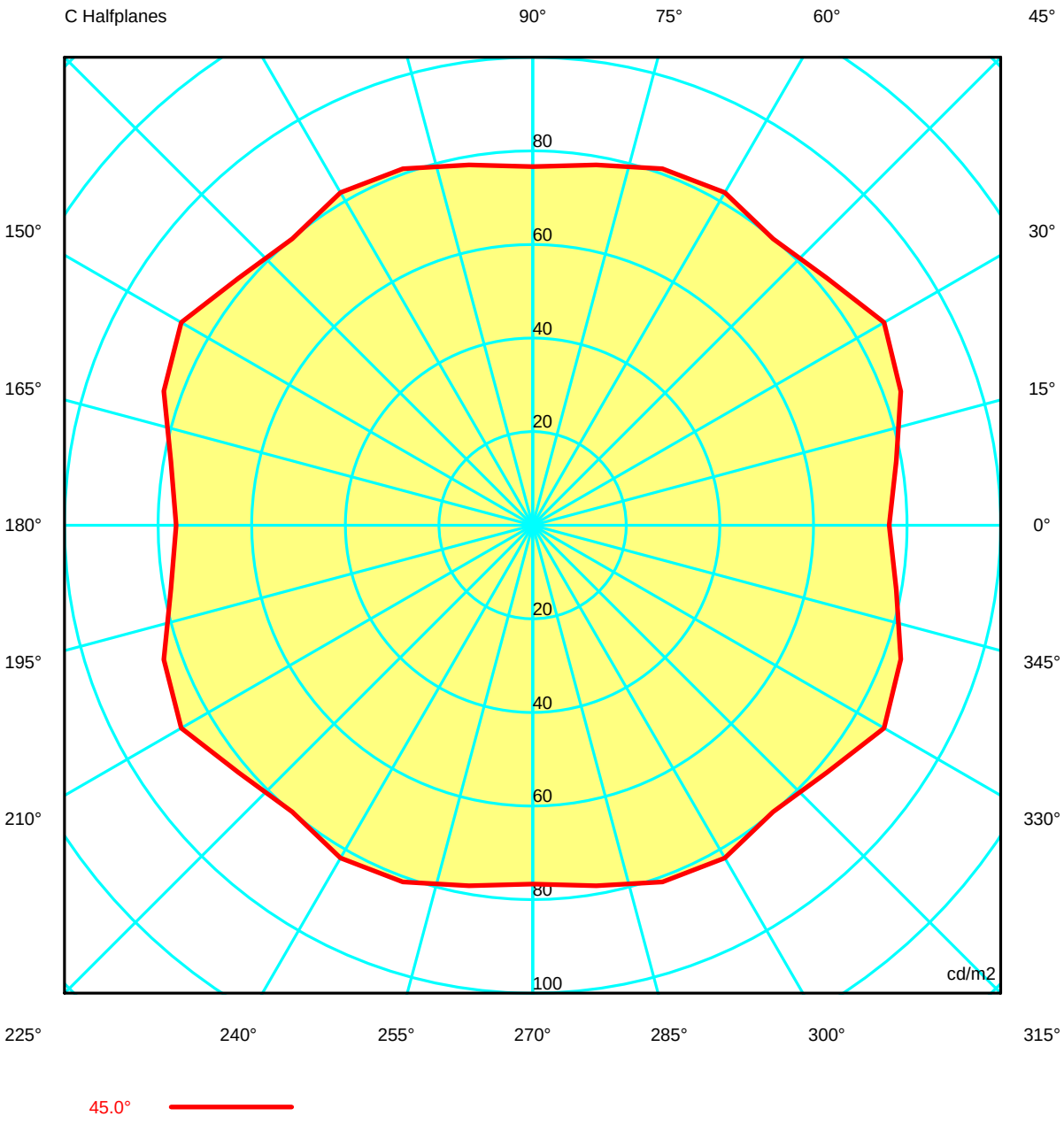


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Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminancia



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Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminance cd/m2 **Tabla 1/3**

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85
G 5.0	152.30	158.92	156.13	152.19	178.18	177.36	164.31	201.04	192.07	152.55	192.08	201.03	164.31
G 10.0	197.05	184.70	172.48	170.99	190.38	199.69	203.71	230.85	223.48	196.79	223.47	230.86	203.71
G 15.0	200.77	192.92	185.75	183.82	191.52	197.95	204.68	219.94	215.03	200.39	215.03	219.95	204.68
G 20.0	197.98	185.46	180.01	177.86	177.78	176.92	181.18	196.25	200.22	197.61	200.22	196.26	181.18
G 25.0	175.52	156.62	156.63	166.24	160.59	162.84	174.12	171.30	170.90	175.51	170.90	171.32	174.12
G 30.0	144.99	132.17	136.61	148.92	144.68	143.83	149.94	146.07	144.14	145.16	144.14	146.08	149.94
G 35.0	118.25	115.35	117.54	122.48	122.97	121.46	120.34	119.41	118.67	118.33	118.67	119.42	120.34
G 40.0	97.10	95.85	99.11	102.71	98.38	95.55	97.30	97.30	97.10	96.99	97.10	97.58	97.30
G 45.0	76.15	78.86	83.68	86.70	82.13	79.92	82.10	81.10	78.22	76.66	78.22	81.10	82.10
G 50.0	69.78	70.27	72.20	74.55	71.66	70.52	71.58	68.74	67.50	68.62	67.49	68.74	71.58
G 55.0	58.45	59.59	61.88	63.17	60.51	60.18	61.14	56.64	55.17	57.20	55.17	56.64	61.14
G 60.0	49.97	50.11	51.03	52.13	50.43	50.46	51.14	47.29	46.86	49.39	46.86	47.29	51.14
G 65.0	42.44	42.37	42.07	41.42	41.27	42.08	42.37	40.23	39.45	39.71	39.45	40.22	42.37
G 70.0	36.47	36.42	36.17	35.85	35.73	35.49	35.27	35.48	35.22	34.75	35.22	35.48	35.27
G 75.0	32.92	32.68	32.38	32.20	32.37	32.40	32.31	32.59	32.65	32.48	32.65	32.59	32.31
G 80.0	29.70	29.82	29.86	29.89	30.05	30.14	30.24	30.55	30.30	29.85	30.30	30.55	30.24
G 85.0	28.08	27.76	27.67	27.86	28.21	28.48	28.58	28.58	28.47	28.37	28.47	28.58	28.58
G 90.0	29.44	29.04	28.83	28.85	29.00	29.23	29.31	29.05	29.07	29.29	29.07	29.05	29.31

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Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminance cd/m2 **Tabla 2/3**

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85
G 5.0	177.40	178.07	152.19	156.13	157.42	152.30	157.42	156.13	152.19	178.07	177.40	164.31	201.03
G 10.0	199.63	190.53	170.99	171.65	186.80	197.05	186.80	171.65	170.99	190.53	199.63	203.71	230.86
G 15.0	197.91	191.62	183.82	185.21	194.27	200.77	194.27	185.21	183.82	191.62	197.91	204.68	219.95
G 20.0	178.66	177.94	177.86	180.01	187.77	197.98	187.77	180.01	177.86	177.94	176.85	181.18	196.26
G 25.0	162.74	160.86	166.24	155.13	160.42	175.52	160.42	155.13	166.24	160.86	162.74	174.12	171.32
G 30.0	143.75	144.88	148.92	135.54	134.88	144.99	134.88	135.54	148.92	144.88	143.75	149.94	146.08
G 35.0	121.44	123.01	122.48	117.28	116.00	118.25	116.00	117.28	122.48	123.01	121.44	120.34	119.42
G 40.0	95.54	98.41	102.71	98.97	96.87	97.10	96.87	98.97	102.71	98.41	95.54	97.30	97.30
G 45.0	79.93	82.10	86.70	83.84	78.47	76.15	78.47	83.84	86.70	82.10	79.93	82.10	81.10
G 50.0	70.51	71.67	74.55	72.16	69.77	69.78	69.77	72.16	74.55	71.67	70.51	71.58	68.74
G 55.0	60.18	60.50	63.17	61.94	59.44	58.45	59.44	61.94	63.17	60.50	60.18	61.14	56.64
G 60.0	50.46	50.43	52.13	51.00	50.11	49.97	49.86	51.00	52.13	50.43	50.46	51.14	47.29
G 65.0	41.83	41.27	41.42	42.07	42.45	42.44	42.45	42.07	41.42	41.27	42.08	42.37	40.22
G 70.0	35.49	35.73	35.85	36.17	36.42	36.47	36.42	36.17	35.85	35.73	35.49	35.27	35.48
G 75.0	32.40	32.38	32.20	32.36	32.72	32.92	32.72	32.36	32.20	32.38	32.40	32.31	32.59
G 80.0	30.14	30.05	29.89	29.87	29.80	29.70	29.80	29.87	29.89	30.05	30.14	30.24	30.55
G 85.0	28.48	28.21	27.86	27.64	27.83	28.08	27.83	27.64	27.86	28.21	28.48	28.58	28.58
G 90.0	29.23	29.01	28.85	28.80	29.11	29.44	29.11	28.80	28.85	29.01	29.23	29.31	29.05

bover
barcelona lights

Luminaria		Ensayo		Lámpara	
Código	0133003+P742	Código	0133003+P742	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL brown	Nombre	AMPHORA-01 2x20W CFL brown	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	300.36 lm	Potencia luminaria	40.00 W	Eficencia	7.51 lm/W	Rendimiento	12.52%
Flujo de Lámpara	2400.00 lm	Valor Máximo	68.32 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminance cd/m2 **Tabla 3/3**

	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85	112.85
G 5.0	192.08	152.55	192.07	201.04	164.31	177.36	178.18	152.19	156.13	158.92
G 10.0	223.47	196.79	223.48	230.85	203.71	199.69	190.38	170.99	172.48	184.70
G 15.0	215.03	200.39	215.03	219.94	204.68	197.95	191.52	183.82	185.75	192.92
G 20.0	200.22	197.61	200.22	196.25	181.18	178.66	177.78	177.86	180.01	185.46
G 25.0	170.90	175.51	170.90	171.30	174.12	162.84	160.59	166.24	156.63	156.62
G 30.0	144.14	145.16	144.14	146.07	149.94	143.83	144.68	148.92	136.61	132.17
G 35.0	118.67	118.33	118.67	119.41	120.34	121.46	122.97	122.48	117.54	115.35
G 40.0	97.10	96.99	97.10	97.58	97.30	95.55	98.38	102.71	99.11	95.85
G 45.0	78.22	76.66	78.22	81.10	82.10	79.92	82.13	86.70	83.68	78.86
G 50.0	67.49	68.62	67.50	68.74	71.58	70.52	71.66	74.55	72.20	70.27
G 55.0	55.17	57.20	55.17	56.64	61.14	60.18	60.51	63.17	61.88	59.59
G 60.0	46.86	49.39	46.86	47.29	51.14	50.46	50.43	52.13	51.03	50.11
G 65.0	39.45	39.71	39.45	40.23	42.37	41.83	41.27	41.42	42.07	42.37
G 70.0	35.22	34.75	35.22	35.48	35.27	35.49	35.73	35.85	36.17	36.42
G 75.0	32.65	32.48	32.65	32.59	32.31	32.40	32.37	32.20	32.38	32.68
G 80.0	30.30	29.85	30.30	30.55	30.24	30.14	30.05	29.89	29.86	29.82
G 85.0	28.47	28.37	28.47	28.58	28.58	28.48	28.21	27.86	27.67	27.76
G 90.0	29.07	29.29	29.07	29.05	29.31	29.23	29.00	28.85	28.83	29.04