bover
barcelona lights

Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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

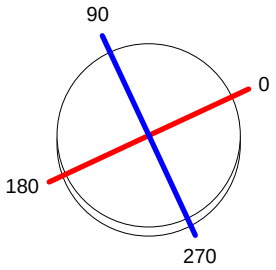
Operador	Asselum T2	Tensión de alimentación	
Temperatura	25.00 °C	Corriente de alimentación	
Humedad	56.00 %	Fotocélula	Prc
Notas			

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.	46 73 89 52 14	D DIN 5040	C31
F UTE	0.07 E + 0.07 T	B NBN	BZ 5

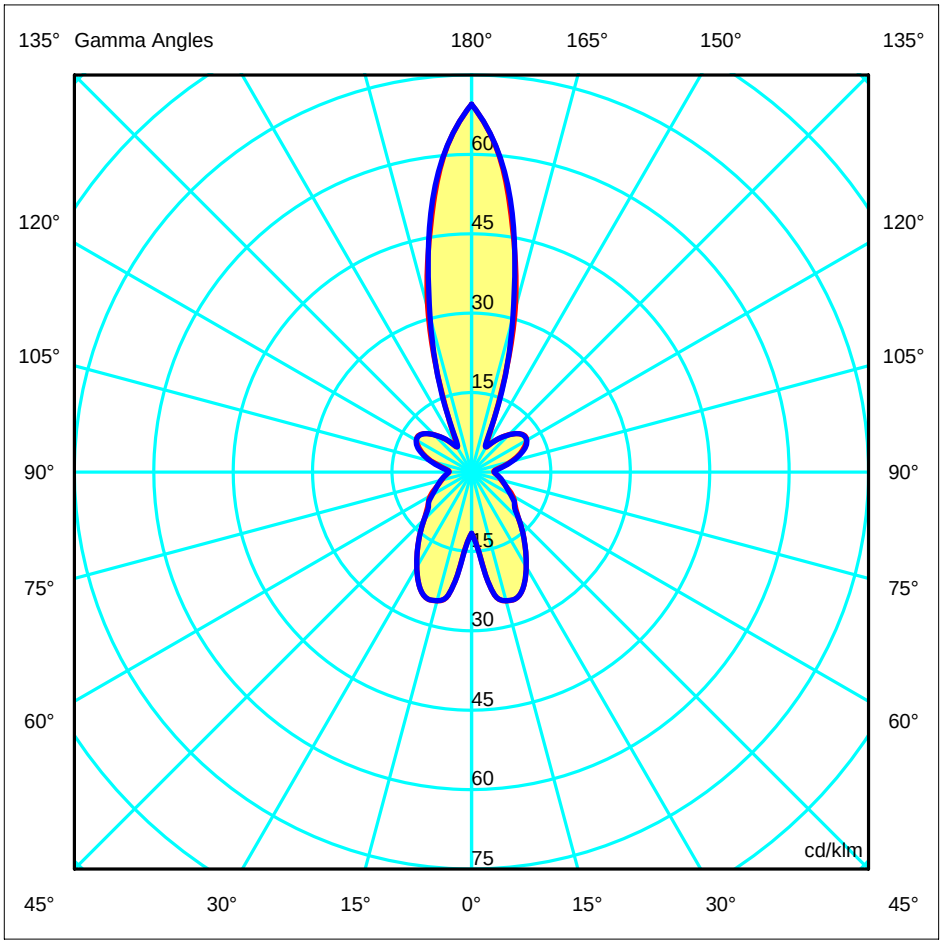
Diam=490mm



C Halfplanes

180.0 — 0.0

270.0 — 90.0



ULOR	6.56 %
DLOR	6.98 %
RN	48.46 %

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Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60
G 5.0	14.85	15.69	15.57	18.71	17.21	19.62	15.00	19.62	17.21	18.71	15.57	15.69
G 10.0	22.93	19.99	20.03	21.87	22.87	24.63	22.90	24.63	22.87	21.87	20.03	19.99
G 15.0	25.18	23.05	22.96	23.33	24.73	25.68	25.15	25.68	24.73	23.33	22.96	23.05
G 20.0	25.28	24.13	24.58	23.46	24.07	25.46	25.25	25.46	24.07	23.46	24.58	24.13
G 25.0	23.47	23.02	24.78	23.28	23.97	23.02	23.45	23.02	23.97	23.28	24.78	23.02
G 30.0	20.73	20.88	23.02	21.31	21.93	20.16	20.70	20.16	21.93	21.31	23.02	20.88
G 35.0	17.74	18.13	20.33	18.80	18.89	17.88	17.75	17.88	18.89	18.80	20.33	18.13
G 40.0	15.13	15.52	17.73	15.59	16.18	15.30	15.10	15.30	16.18	15.59	17.73	15.52
G 45.0	12.65	13.03	15.06	13.28	13.94	12.85	12.65	12.85	13.94	13.28	15.06	13.03
G 50.0	10.95	11.85	12.94	11.78	12.21	11.18	10.68	11.18	12.21	11.78	12.94	11.85
G 55.0	9.96	10.56	11.08	10.41	10.10	9.47	9.85	9.47	10.10	10.41	11.08	10.56
G 60.0	8.98	9.12	9.42	9.00	8.85	8.32	8.47	8.32	8.85	9.00	9.42	9.12
G 65.0	7.70	7.69	8.03	7.69	7.71	7.25	7.54	7.25	7.71	7.69	8.03	7.69
G 70.0	6.59	6.54	6.81	6.65	6.72	6.60	6.58	6.60	6.72	6.65	6.81	6.54
G 75.0	5.80	5.82	6.02	5.96	6.01	5.98	6.00	5.98	6.01	5.96	6.02	5.82
G 80.0	5.25	5.22	5.40	5.35	5.42	5.34	5.31	5.34	5.42	5.35	5.40	5.22
G 85.0	4.67	4.67	4.77	4.73	4.78	4.71	4.71	4.71	4.78	4.73	4.77	4.67
G 90.0	4.25	4.22	4.32	4.28	4.39	4.23	4.30	4.23	4.39	4.28	4.32	4.22
G 95.0	4.49	4.45	4.55	4.48	4.71	4.63	4.75	4.63	4.71	4.48	4.55	4.45
G100.0	5.93	5.97	6.02	6.03	6.15	6.26	6.29	6.26	6.15	6.03	6.02	5.97
G105.0	7.76	7.72	7.85	7.90	7.98	8.03	8.05	8.03	7.98	7.90	7.85	7.72
G110.0	9.59	9.49	9.58	9.76	9.83	9.76	9.84	9.76	9.83	9.76	9.58	9.49
G115.0	10.97	10.99	11.16	11.29	11.33	11.27	11.30	11.27	11.33	11.29	11.16	10.99
G120.0	12.01	11.91	12.02	12.11	12.16	12.02	12.03	12.02	12.16	12.11	12.02	11.91
G125.0	12.14	12.09	12.17	12.18	12.22	12.02	12.03	12.02	12.22	12.18	12.17	12.09
G130.0	11.26	11.30	11.47	11.38	11.42	11.23	11.31	11.23	11.42	11.38	11.47	11.30
G135.0	9.98	9.88	9.99	9.97	10.10	9.88	9.92	9.88	10.10	9.97	9.99	9.88
G140.0	8.37	8.33	8.37	8.35	8.48	8.36	8.42	8.36	8.48	8.35	8.37	8.33
G145.0	6.76	6.70	6.84	6.76	6.83	6.81	6.76	6.81	6.83	6.76	6.84	6.70
G150.0	5.50	5.44	5.50	5.52	5.58	5.49	5.50	5.49	5.58	5.52	5.50	5.44
G155.0	8.34	7.96	8.09	8.12	8.44	7.62	7.62	7.62	8.44	8.12	8.09	7.96
G160.0	17.22	17.70	17.71	17.33	17.29	17.12	17.76	17.12	17.29	17.33	17.71	17.70
G165.0	31.90	31.18	30.81	31.21	31.38	30.76	30.20	30.76	31.38	31.21	30.81	31.18
G170.0	45.45	45.75	46.08	45.37	45.74	45.87	45.99	45.87	45.74	45.37	46.08	45.75
G175.0	59.96	60.10	60.16	60.22	60.70	60.35	60.24	60.35	60.70	60.22	60.16	60.10
G180.0	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47

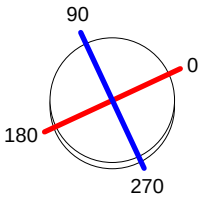
	C 180.00	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00
G 0.0	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60
G 5.0	14.85	15.69	15.57	18.71	17.21	19.62	15.00	19.62	17.21	18.71	15.57	15.69
G 10.0	22.93	19.99	20.03	21.87	22.87	24.63	22.90	24.63	22.87	21.87	20.03	19.99
G 15.0	25.18	23.05	22.96	23.33	24.73	25.68	25.15	25.68	24.73	23.33	22.96	23.05
G 20.0	25.28	24.13	24.58	23.46	24.07	25.46	25.25	25.46	24.07	23.46	24.58	24.13
G 25.0	23.47	23.02	24.78	23.28	23.97	23.02	23.45	23.02	23.97	23.28	24.78	23.02
G 30.0	20.73	20.88	23.02	21.31	21.93	20.16	20.70	20.16	21.93	21.31	23.02	20.88
G 35.0	17.74	18.13	20.33	18.80	18.89	17.88	17.75	17.88	18.89	18.80	20.33	18.13
G 40.0	15.13	15.52	17.73	15.59	16.18	15.30	15.10	15.30	16.18	15.59	17.73	15.52
G 45.0	12.65	13.03	15.06	13.28	13.94	12.85	12.65	12.85	13.94	13.28	15.06	13.03
G 50.0	10.95	11.85	12.94	11.78	12.21	11.18	10.68	11.18	12.21	11.78	12.94	11.85
G 55.0	9.96	10.56	11.08	10.41	10.10	9.47	9.85	9.47	10.10	10.41	11.08	10.56
G 60.0	8.98	9.12	9.42	9.00	8.85	8.32	8.47	8.32	8.85	9.00	9.42	9.12
G 65.0	7.70	7.69	8.03	7.69	7.71	7.25	7.54	7.25	7.71	7.69	8.03	7.69
G 70.0	6.59	6.54	6.81	6.65	6.72	6.60	6.58	6.60	6.72	6.65	6.81	6.54
G 75.0	5.80	5.82	6.02	5.96	6.01	5.98	6.00	5.98	6.01	5.96	6.02	5.82
G 80.0	5.25	5.22	5.40	5.35	5.42	5.34	5.31	5.34	5.42	5.35	5.40	5.22
G 85.0	4.67	4.67	4.77	4.73	4.78	4.71	4.71	4.71	4.78	4.73	4.77	4.67
G 90.0	4.25	4.22	4.32	4.28	4.39	4.23	4.30	4.23	4.39	4.28	4.32	4.22
G 95.0	4.49	4.45	4.55	4.48	4.71	4.63	4.75	4.63	4.71	4.48	4.55	4.45
G100.0	5.93	5.97	6.02	6.03	6.15	6.26	6.29	6.26	6.15	6.03	6.02	5.97
G105.0	7.76	7.72	7.85	7.90	7.98	8.03	8.05	8.03	7.98	7.90	7.85	7.72
G110.0	9.59	9.49	9.58	9.76	9.83	9.76	9.84	9.76	9.83	9.76	9.58	9.49
G115.0	10.97	10.99	11.16	11.29	11.33	11.27	11.30	11.27	11.33	11.29	11.16	10.99
G120.0	12.01	11.91	12.02	12.11	12.16	12.02	12.03	12.02	12.16	12.11	12.02	11.91
G125.0	12.14	12.09	12.17	12.18	12.22	12.02	12.03	12.02	12.22	12.18	12.17	12.09
G130.0	11.26	11.30	11.47	11.38	11.42	11.23	11.31	11.23	11.42	11.38	11.47	11.30
G135.0	9.98	9.88	9.99	9.97	10.10	9.88	9.92	9.88	10.10	9.97	9.99	9.88
G140.0	8.37	8.33	8.37	8.35	8.48	8.36	8.42	8.36	8.48	8.35	8.37	8.33
G145.0	6.76	6.70	6.84	6.76	6.83	6.81	6.76	6.81	6.83	6.76	6.84	6.70
G150.0	5.50	5.44	5.50	5.52	5.58	5.49	5.50	5.49	5.58	5.52	5.50	5.44
G155.0	8.34	7.96	8.09	8.12	8.44	7.62	7.62	7.62	8.44	8.12	8.09	7.96
G160.0	17.22	17.70	17.71	17.33	17.29	17.12	17.76	17.12	17.29	17.33	17.71	17.70
G165.0	31.90	31.18	30.81	31.21	31.38	30.76	30.20	30.76	31.38	31.21	30.81	31.18
G170.0	45.45	45.75	46.08	45.37	45.74	45.87	45.99	45.87	45.74	45.37	46.08	45.75
G175.0	59.96	60.10	60.16	60.22	60.70	60.35	60.24	60.35	60.70	60.22	60.16	60.10
G180.0	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47	69.47

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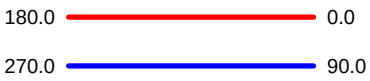
Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

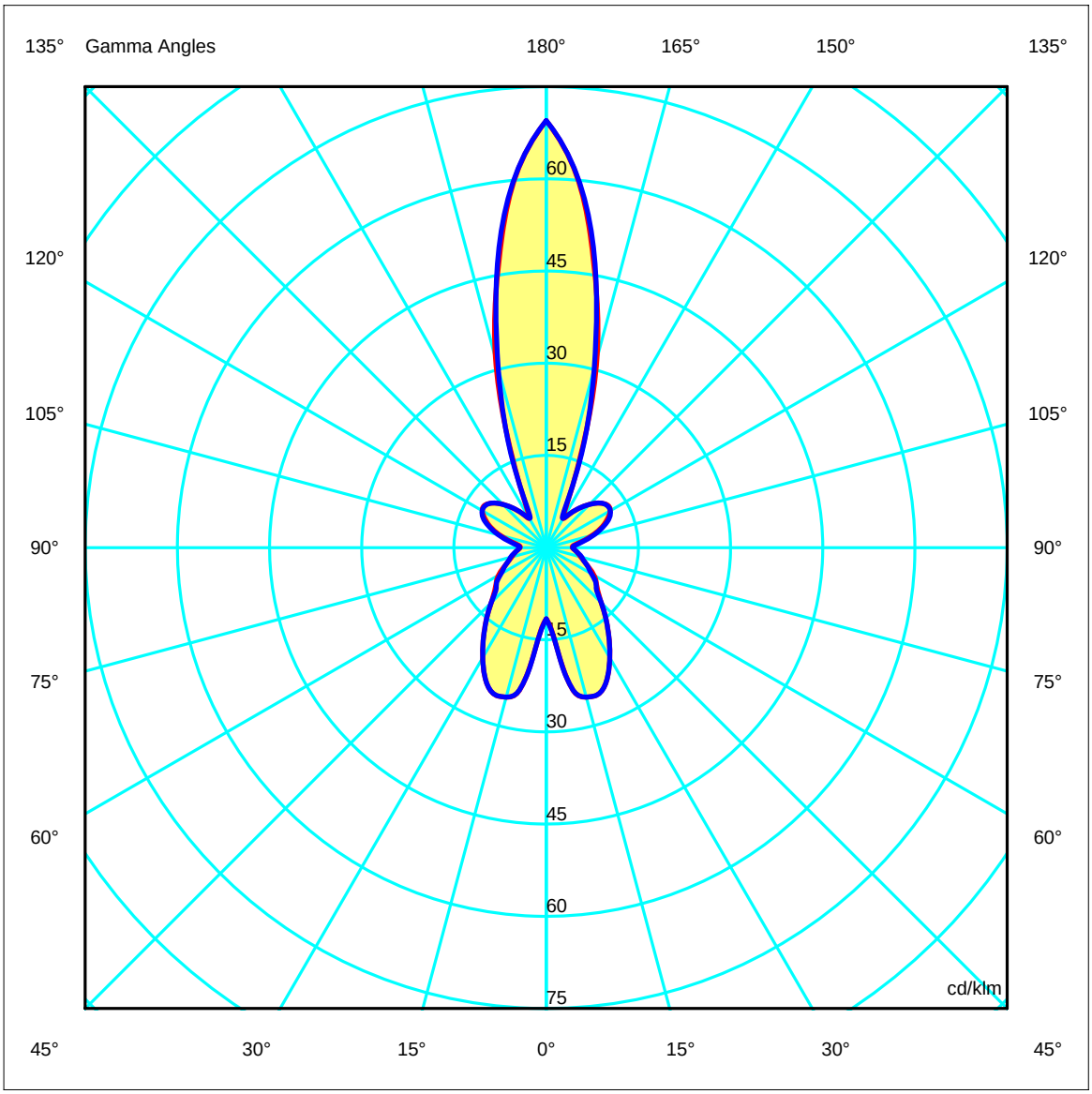
Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Diam=490mm



C Halfplanes



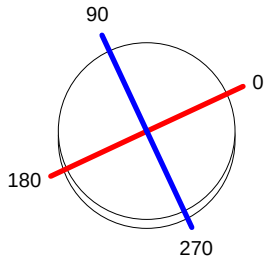


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Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

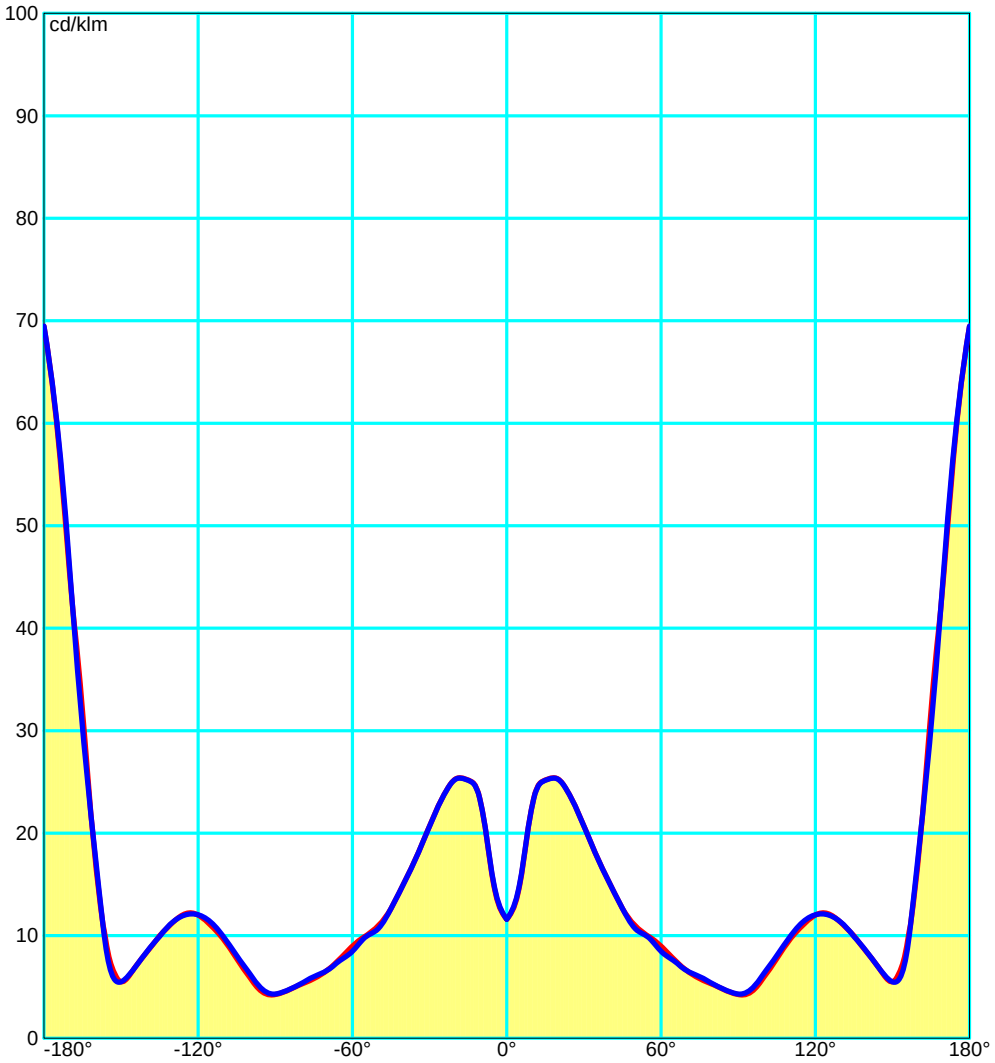
Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Diam=490mm



C Halfplanes





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Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Total Flux=2400.00 Luminaire Flux=324.99

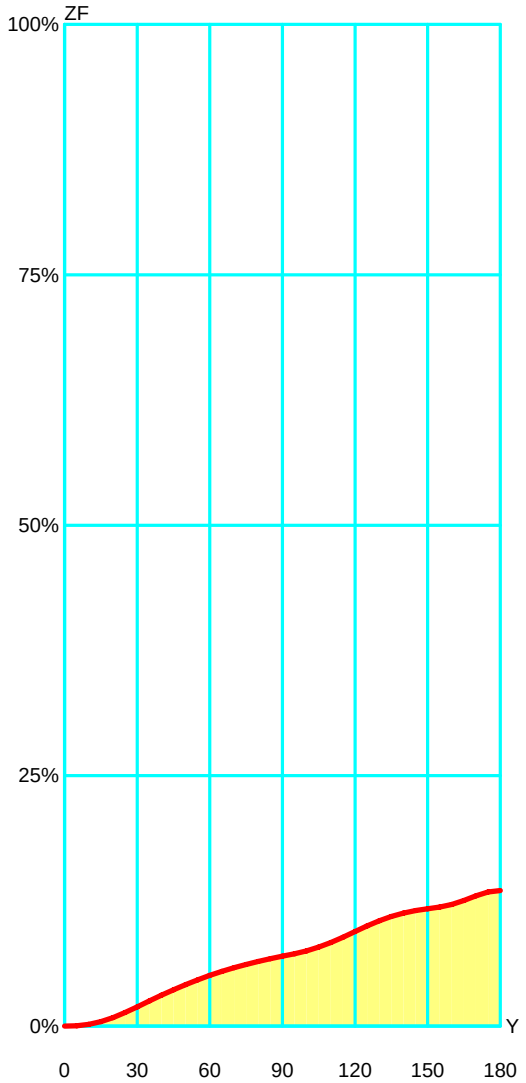
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.31	0.38	0.45	0.51	0.56	0.64	0.69	0.73	0.78	0.81	0.89	0.94
RC	5	5	5	5	6	6	6	6	6	6	7	7

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)	2	8	19	31	41	51	58	65	70	75	83	94	105	113	117	122	130	135

CIE Flux Codes
46 73 89 52 14

C.I.E.	5/5/5/5/6/6/6/6/6/7/7	LOR	13.54107 %
D DIN 5040	C31	ULOR	6.56164 %
F UTE	0.07 E + 0.07 T	DLOR	6.97943 %
B NBN	BZ 5	UFF	48.45735 %
RN	48.45735 %	DFF	51.54265 %
BLF	1.0	FFR	94.01409 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	0.34	0.34	0.25 %	0.25 %
10°	1.40	1.74	1.03 %	1.28 %
15°	2.74	4.48	2.02 %	3.31 %
20°	4.01	8.49	2.96 %	6.27 %
25°	5.04	13.53	3.72 %	9.99 %
30°	5.69	19.21	4.20 %	14.19 %
35°	5.89	25.10	4.35 %	18.54 %
40°	5.76	30.86	4.26 %	22.79 %
45°	5.44	36.30	4.02 %	26.81 %
50°	5.10	41.41	3.77 %	30.58 %
55°	4.79	46.20	3.54 %	34.12 %
60°	4.43	50.63	3.27 %	37.39 %
65°	4.03	54.66	2.97 %	40.36 %
70°	3.62	58.28	2.68 %	43.04 %
75°	3.29	61.57	2.43 %	45.47 %
80°	3.02	64.59	2.23 %	47.70 %
85°	2.73	67.33	2.02 %	49.72 %
90°	2.47	69.79	1.82 %	51.54 %
95°	2.43	72.22	1.79 %	53.33 %
100°	2.90	75.12	2.14 %	55.47 %
105°	3.74	78.86	2.76 %	58.24 %
110°	4.60	83.46	3.40 %	61.63 %
115°	5.29	88.75	3.91 %	65.54 %
120°	5.65	94.39	4.17 %	69.71 %
125°	5.59	99.98	4.13 %	73.84 %
130°	5.10	105.08	3.77 %	77.60 %
135°	4.31	109.39	3.18 %	80.78 %
140°	3.40	112.79	2.51 %	83.29 %
145°	2.53	115.32	1.87 %	85.16 %
150°	1.81	117.13	1.34 %	86.50 %
155°	1.71	118.84	1.27 %	87.76 %
160°	2.67	121.51	1.97 %	89.74 %
165°	4.00	125.51	2.95 %	92.69 %
170°	4.56	130.07	3.37 %	96.05 %
175°	3.79	133.86	2.80 %	98.85 %
180°	1.55	135.41	1.15 %	100.00 %

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Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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	0.2	0.2	1.1	1.8	< 0	< 0	< 0	0.7	1.8
x=2H y=3H	0.7	1.4	1.5	2.3	3.2	0.4	1.1	1.3	2.0	3.2
x=2H y=4H	1.2	1.9	2.2	2.9	3.8	1.0	1.7	2.0	2.7	3.8
x=2H y=6H	1.8	2.5	2.7	3.4	4.4	1.7	2.4	2.6	3.2	4.4
x=2H y=8H	2.1	2.7	3.0	3.6	4.8	2.0	2.6	2.9	3.5	4.8
x=2H y=12H	2.4	3.0	3.4	3.9	5.0	2.3	2.9	3.3	3.8	5.0
x=4H y=2H	< 0	0.5	0.8	1.5	2.3	< 0	0.2	0.5	1.2	2.3
x=4H y=3H	1.2	1.8	2.2	2.8	3.8	1.0	1.6	2.0	2.5	3.8
x=4H y=4H	2.0	2.6	3.0	3.6	4.7	1.9	2.4	2.9	3.5	4.7
x=4H y=6H	2.8	3.3	3.8	4.3	5.5	2.8	3.3	3.8	4.2	5.5
x=4H y=8H	3.2	3.6	4.2	4.6	5.8	3.1	3.6	4.2	4.5	5.8
x=4H y=12H	3.6	4.0	4.6	4.9	6.3	3.5	3.9	4.5	4.9	6.3
x=8H y=4H	2.3	2.7	3.3	3.7	4.9	2.2	2.6	3.2	3.6	4.9
x=8H y=6H	3.4	3.7	4.4	4.7	6.0	3.3	3.7	4.3	4.7	6.0
x=8H y=8H	3.9	4.2	4.9	5.2	6.5	3.9	4.2	4.9	5.2	6.5
x=8H y=12H	4.4	4.7	5.4	5.7	7.0	4.4	4.7	5.4	5.7	7.0
x=12H y=4H	2.4	2.7	3.3	3.7	5.0	2.2	2.6	3.2	3.6	5.0
x=12H y=6H	3.5	3.8	4.5	4.8	6.1	3.4	3.7	4.5	4.8	6.1
x=12H y=8H	4.1	4.3	5.0	5.3	6.6	4.0	4.3	5.0	5.3	6.6

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Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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	73	66	68	62	63	59	55	47	53	45	48	37	45	31	42	39	35	37	30	33	31	27	25
0.80	81	74	73	68	71	65	62	54	58	51	54	43	50	37	48	45	40	42	35	38	36	32	29
1.00	86	80	76	72	76	68	68	60	62	56	57	47	54	41	52	49	45	46	39	42	40	36	33
1.25	91	86	79	74	82	71	73	66	65	60	61	51	57	45	56	53	49	50	43	47	44	40	36
1.50	94	90	80	76	85	73	77	71	68	63	63	55	59	49	59	56	52	53	47	50	47	43	39
2.00	99	95	81	78	91	75	83	78	70	66	66	59	63	54	63	60	57	57	52	54	52	48	44
2.50	102	98	81	79	94	77	87	82	72	69	68	62	65	57	65	62	60	60	55	58	55	52	47
3.00	104	101	81	79	96	77	90	86	73	70	70	65	67	60	67	64	62	62	58	60	58	54	49
4.00	106	104	81	80	100	78	94	91	75	72	72	68	69	64	69	67	65	65	62	63	61	58	52
5.00	108	106	81	80	101	78	97	94	75	74	73	70	71	66	71	69	67	67	64	65	64	61	55
10.00	111	110	80	80	106	79	103	101	77	76	75	74	74	71	74	72	72	71	70	70	69	66	60
20.00	112	112	80	80	108	79	106	105	78	77	77	76	76	75	75	74	74	74	73	72	72	70	62

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	52	48	46	42	46	41	36	32	33	29	27	23	24	19	28	23	22	20	18	21	18	17	14
0.80	60	56	52	49	53	46	43	39	39	35	33	28	29	23	32	28	26	25	22	25	22	20	17
1.00	66	63	56	53	59	50	49	45	43	39	37	32	33	27	36	32	30	28	25	28	25	22	19
1.25	72	69	59	57	64	53	55	51	47	43	41	36	37	31	39	35	33	32	29	31	28	25	21
1.50	77	73	62	59	68	56	59	55	50	47	45	40	41	35	42	38	36	35	32	33	31	27	23
2.00	82	79	65	63	74	59	66	62	54	51	49	45	45	40	46	42	40	39	36	36	34	30	25
2.50	86	84	67	65	77	61	70	67	56	54	52	48	49	44	48	45	43	42	39	39	37	32	27
3.00	89	87	68	67	80	63	74	70	58	56	55	51	51	47	50	47	46	45	42	40	39	33	28
4.00	94	92	71	69	85	65	79	76	62	60	59	55	56	52	53	51	49	48	46	44	42	36	31
5.00	97	96	73	72	88	67	83	81	64	63	62	59	59	55	56	53	52	51	49	46	45	38	33
10.00	106	105	78	78	97	73	94	92	71	71	70	68	68	66	63	61	60	60	59	53	52	45	39
20.00	113	112	83	83	103	78	101	101	77	77	76	75	75	74	68	67	67	67	66	59	58	51	44

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	64	59	59	56	57	53	45	41	43	40	36	32	31	27	37	32	30	28	25	29	25	23	22
0.80	77	72	71	67	68	63	56	51	53	49	46	40	41	34	46	40	38	36	32	35	32	29	27
1.00	87	82	79	76	77	72	65	60	62	57	54	48	49	41	53	47	44	42	39	41	38	34	31
1.25	97	93	87	84	86	79	75	69	70	65	63	56	57	49	59	54	51	49	45	47	44	39	36
1.50	105	100	93	90	93	85	82	77	76	72	69	63	63	55	65	59	57	55	51	52	48	43	39
2.00	116	112	102	99	104	93	93	88	85	82	79	73	74	66	73	68	66	64	60	59	56	49	45
2.50	123	120	107	105	110	98	101	97	92	88	86	80	81	73	78	74	72	70	66	64	61	53	48
3.00	128	125	111	109	115	102	107	103	96	93	91	86	87	79	82	78	76	75	71	67	65	56	51
4.00	135	133	116	114	122	107	115	111	102	100	98	93	94	88	88	84	82	81	78	72	70	60	55
5.00	140	138	119	118	126	110	120	117	106	104	102	98	99	93	91	88	86	85	82	75	73	62	57
10.00	149	148	126	125	135	117	132	130	114	113	112	110	110	106	98	97	96	95	93	83	81	69	62
20.00	155	154	129	129	141	120	138	137	119	118	118	116	116	114	103	102	101	101	100	87	86	72	65

LM53 SHR C0-C180: 1.785 SHR C90-C270: 1.785 SHR Superficial: 1.741

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Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

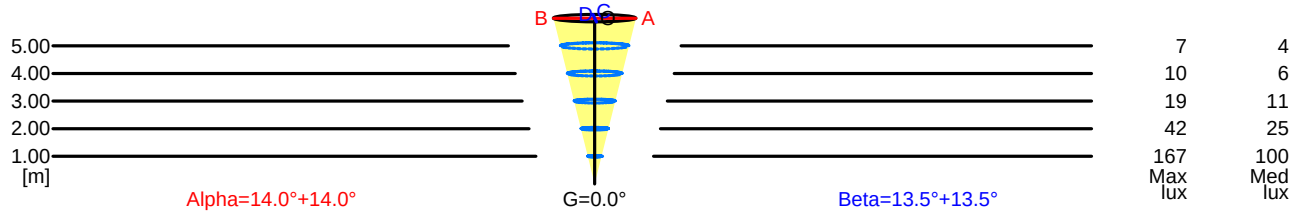
Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

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	0.50	0.75	1.00	1.25	OC	0.24	0.48	0.72	0.96	1.20
OB	0.25	0.50	0.75	1.00	1.25	OD	0.24	0.48	0.72	0.96	1.20

Intensidades Luminosas [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	166.72	143.90	76.56	20.01	16.23	23.96	29.13	26.32	18.62	10.79
OB	166.72	143.90	76.56	20.01	16.23	23.96	29.13	26.32	18.62	10.79
OC	166.72	144.57	72.47	18.29	16.22	23.80	28.87	27.13	19.33	11.40
OD	166.72	144.57	72.47	18.29	16.22	23.80	28.87	27.13	19.33	11.40



5.00	2.49	7	4	
4.00	1.99	10	6	
3.00	1.49	19	11	
2.00	1.00	42	25	
1.00	0.50	167	100	
H[m]	D[m]	Max lux	Med lux	Alpha=14.0°+14.0° G=0.0

5.00	2.40	7	4	
4.00	1.92	10	6	
3.00	1.44	19	11	
2.00	0.96	42	25	
1.00	0.48	167	100	
H[m]	D[m]	Max lux	Med lux	Beta=13.5°+13.5° G=0.0

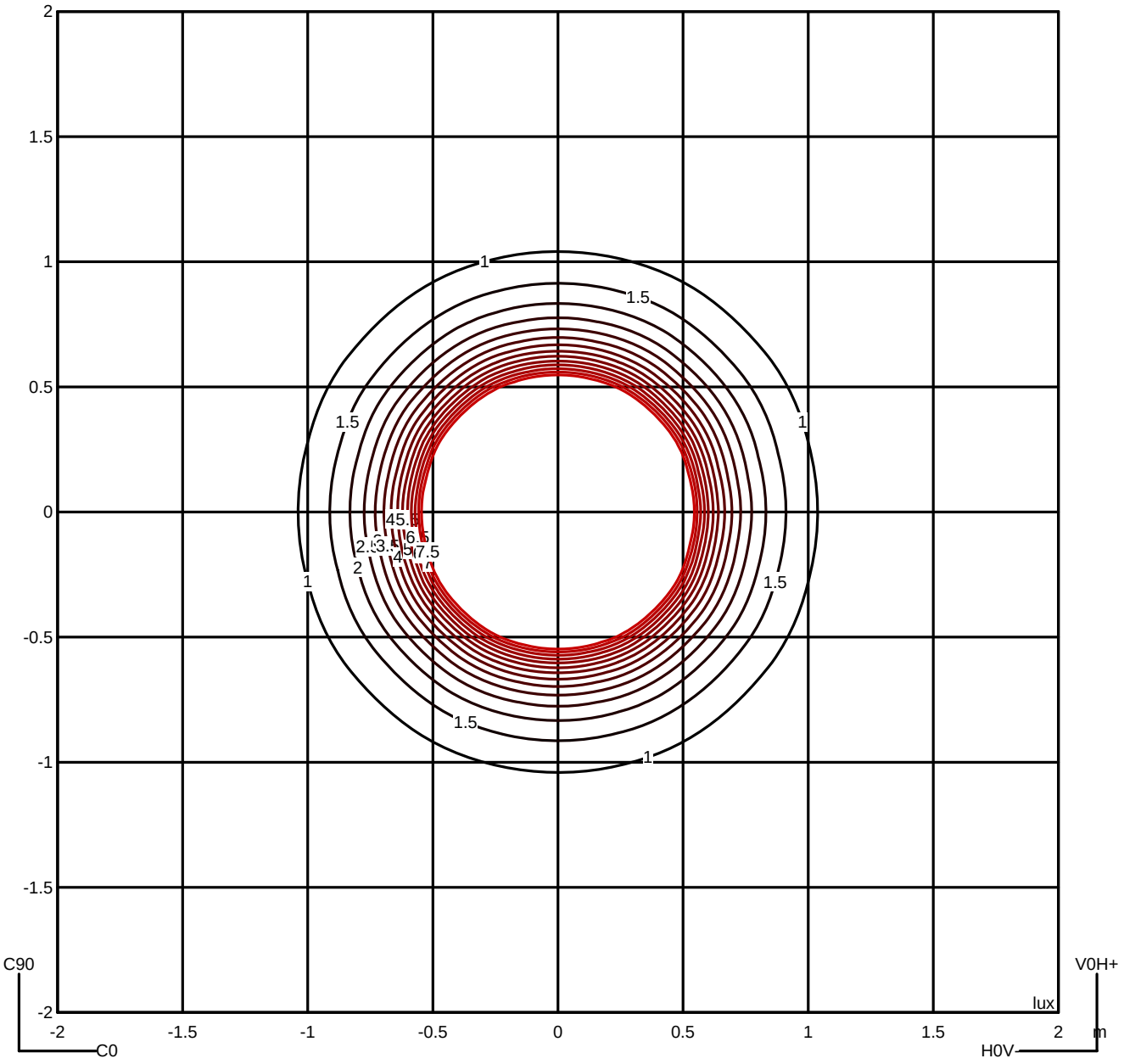
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Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

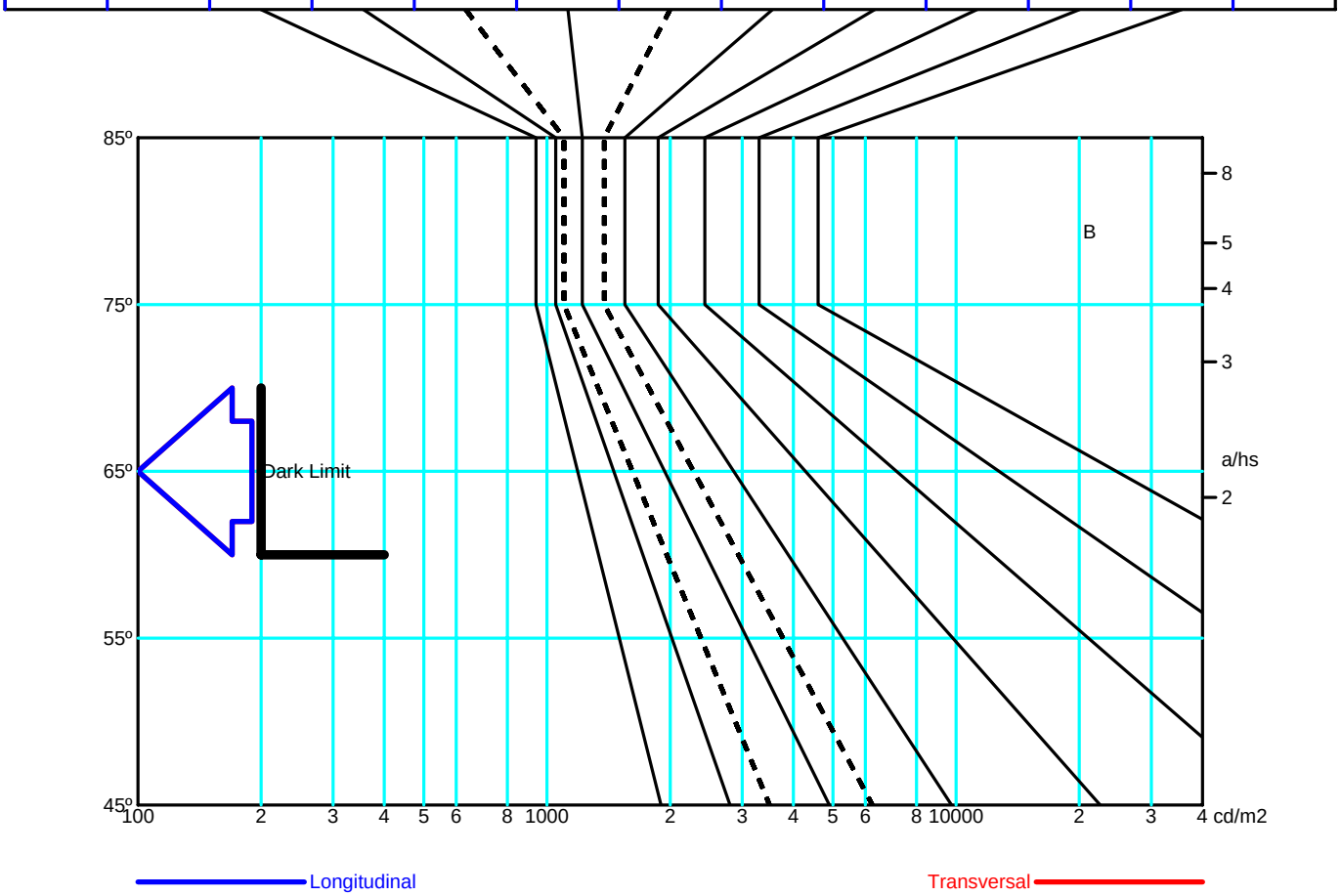
Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminancia Media [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	83	70	63	57	49	42	38	35	32	---
90.0°	83	68	62	53	48	42	39	36	33	---

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

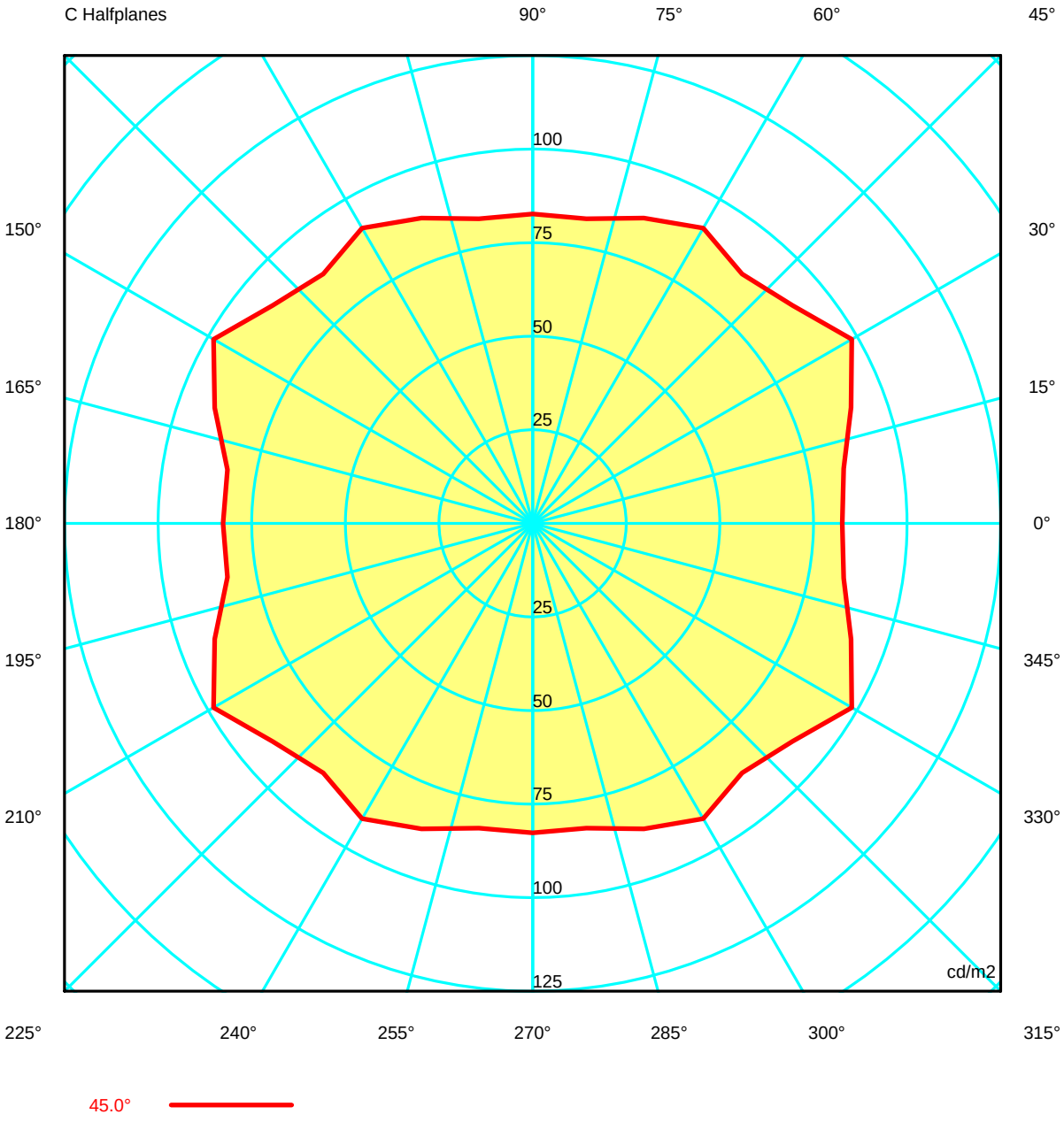


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Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 cd/klm	Posición	C=0.00 G=180.00	CG	Asimétrico

Luminancia



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Luminaria		**Ensayo**		**Lámpara**	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61
G 5.0	164.51	173.24	173.36	172.46	199.43	202.69	190.57	214.44	200.93	166.14	200.93	214.43	190.57
G 10.0	226.36	204.68	193.92	197.67	210.33	218.93	225.72	240.58	238.02	226.04	238.01	240.60	225.72
G 15.0	225.70	211.17	204.79	205.80	207.27	212.46	221.62	229.13	228.88	225.43	228.87	229.14	221.62
G 20.0	208.98	200.93	200.64	203.19	196.99	193.46	198.98	207.85	209.91	208.73	209.91	207.86	198.98
G 25.0	181.26	176.46	182.82	191.40	183.59	180.47	185.15	180.23	178.23	181.15	178.23	180.23	185.15
G 30.0	151.33	152.11	158.56	168.05	159.59	156.29	160.15	151.16	147.36	151.15	147.36	151.17	160.15
G 35.0	123.74	125.51	132.26	141.77	135.15	130.24	131.72	127.21	123.61	123.77	123.61	127.22	131.72
G 40.0	101.66	103.46	110.40	119.20	109.65	104.50	108.77	105.43	101.63	101.50	101.62	105.43	108.77
G 45.0	82.68	84.32	90.48	98.41	90.60	87.02	91.09	86.84	82.65	82.68	82.65	86.84	91.09
G 50.0	70.16	73.39	79.19	82.91	77.69	75.76	78.21	74.37	69.69	68.40	69.69	74.37	78.21
G 55.0	63.05	65.40	68.49	70.17	67.43	65.12	63.97	60.78	60.52	62.36	60.52	60.78	63.97
G 60.0	56.59	56.98	58.37	59.37	57.65	56.40	55.80	53.28	52.50	53.41	52.50	53.28	55.80
G 65.0	48.71	48.29	49.48	50.78	49.35	48.67	48.76	46.52	46.27	47.71	46.27	46.52	48.76
G 70.0	42.13	41.62	42.42	43.56	42.90	42.55	42.96	42.50	42.08	42.10	42.08	42.50	42.96
G 75.0	37.79	37.86	38.37	39.24	38.99	38.85	39.16	39.05	39.00	39.11	39.00	39.05	39.16
G 80.0	35.15	34.82	35.34	36.14	35.93	35.93	36.31	36.02	35.62	35.53	35.62	36.02	36.31
G 85.0	32.41	32.28	32.65	33.12	32.89	32.87	33.16	32.88	32.70	32.68	32.65	32.88	33.16
G 90.0	30.84	30.59	30.90	31.36	31.10	31.37	31.85	31.05	30.78	31.20	30.78	31.05	31.85

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Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61
G 5.0	202.74	199.30	172.46	173.36	171.40	164.51	171.40	173.36	172.46	199.30	202.74	190.57	214.43
G 10.0	218.82	210.62	197.67	192.33	208.70	226.36	208.70	192.33	197.67	210.62	218.82	225.72	240.60
G 15.0	212.38	207.47	205.80	203.71	213.89	225.70	213.89	206.31	205.80	207.47	212.38	221.62	229.14
G 20.0	193.42	197.10	203.19	200.01	202.54	208.98	202.54	200.01	203.19	197.10	193.42	198.98	207.86
G 25.0	180.44	183.67	191.40	182.36	178.97	181.26	178.97	182.36	191.40	183.67	180.44	185.15	180.23
G 30.0	156.28	159.63	168.05	158.33	152.11	151.33	150.36	158.33	168.05	159.63	156.28	160.15	151.17
G 35.0	130.23	135.17	141.77	132.13	123.78	123.74	123.78	132.13	141.77	135.17	130.23	131.72	127.22
G 40.0	104.49	109.67	119.20	110.26	101.67	101.66	101.67	110.26	119.20	109.67	104.49	108.77	105.43
G 45.0	87.01	90.62	98.41	90.37	82.75	82.68	82.75	90.37	98.41	90.62	87.01	91.09	86.84
G 50.0	75.77	77.66	82.91	79.38	72.92	70.16	72.92	79.38	82.91	77.66	75.77	78.21	74.37
G 55.0	65.13	67.41	70.17	68.64	65.02	63.05	65.02	68.64	70.17	67.41	65.13	63.97	60.78
G 60.0	56.40	57.65	59.37	58.38	56.95	56.59	56.95	58.38	59.37	57.65	56.40	55.80	53.28
G 65.0	48.66	49.36	50.78	49.43	48.65	48.71	48.65	49.43	50.78	49.36	48.66	48.76	46.52
G 70.0	42.55	42.91	43.56	42.37	41.91	42.13	41.91	42.37	43.56	42.91	42.55	42.96	42.50
G 75.0	38.85	39.00	39.24	38.35	37.86	37.79	37.73	38.35	39.24	39.00	38.85	39.16	39.05
G 80.0	35.92	35.94	36.14	35.30	35.01	35.15	35.01	35.30	36.14	35.94	35.92	36.31	36.02
G 85.0	32.87	32.89	33.12	32.63	32.39	32.41	32.39	32.63	33.12	32.89	32.87	33.16	32.88
G 90.0	31.36	31.11	31.36	30.88	30.65	30.84	30.65	30.88	31.36	31.11	31.36	31.85	31.05

bover
barcelona lights

Luminaria		Ensayo		Lámpara	
Código	0133003+P741	Código	0133003+P741	Código	PL ELECT pro20W/827
Nombre	AMPHORA-01 2x20W CFL beige	Nombre	AMPHORA-01 2x20W CFL beige	Número	2
Familia	- BOVER	Fecha	11-01-2016	Posición	Universal

Flujo Luminaria	324.99 lm	Potencia luminaria	40.00 W	Eficencia	8.12 lm/W	Rendimiento	13.54%
Flujo de Lámpara	2400.00 lm	Valor Máximo	69.47 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	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61	147.61
G 5.0	200.93	166.14	200.93	214.44	190.57	202.69	199.43	172.46	173.36	173.24
G 10.0	238.01	226.04	238.02	240.58	225.72	218.93	210.33	197.67	193.92	204.68
G 15.0	228.87	225.43	228.88	229.13	221.62	212.46	207.27	205.80	204.79	211.17
G 20.0	209.91	208.73	209.91	207.85	198.98	193.46	196.99	203.19	200.64	200.93
G 25.0	178.23	181.15	178.23	180.23	185.15	180.47	183.59	191.40	182.82	176.46
G 30.0	147.36	151.15	147.36	151.16	160.15	156.29	159.59	168.05	158.56	152.11
G 35.0	123.61	123.77	123.61	127.21	131.72	130.24	135.15	141.77	132.26	125.51
G 40.0	101.62	101.50	101.63	105.43	108.77	104.50	109.65	119.20	110.40	103.46
G 45.0	82.65	82.68	82.65	86.84	91.09	87.02	90.60	98.41	90.48	84.32
G 50.0	69.69	68.40	69.69	74.37	78.21	75.76	77.69	82.91	79.19	73.39
G 55.0	60.52	62.36	60.52	60.78	63.97	65.12	67.43	70.17	68.49	65.40
G 60.0	52.50	53.41	52.50	53.28	55.80	56.40	57.65	59.37	58.37	56.98
G 65.0	46.27	47.71	46.27	46.52	48.76	48.67	49.35	50.78	49.48	48.29
G 70.0	42.08	42.10	42.08	42.50	42.96	42.55	42.90	43.56	42.42	41.62
G 75.0	39.00	39.11	39.00	39.05	39.16	38.85	38.99	39.24	38.37	37.86
G 80.0	35.62	35.53	35.62	36.02	36.31	35.93	35.93	36.14	35.34	34.82
G 85.0	32.70	32.68	32.65	32.88	33.16	32.87	32.89	33.12	32.65	32.28
G 90.0	30.78	31.20	30.78	31.05	31.85	31.37	31.10	31.36	30.90	30.59