

# IES Indoor Report

Photometric Filename: SLIMBATTEN36W4K.IES

## Indoor Luminaire Photometric Data

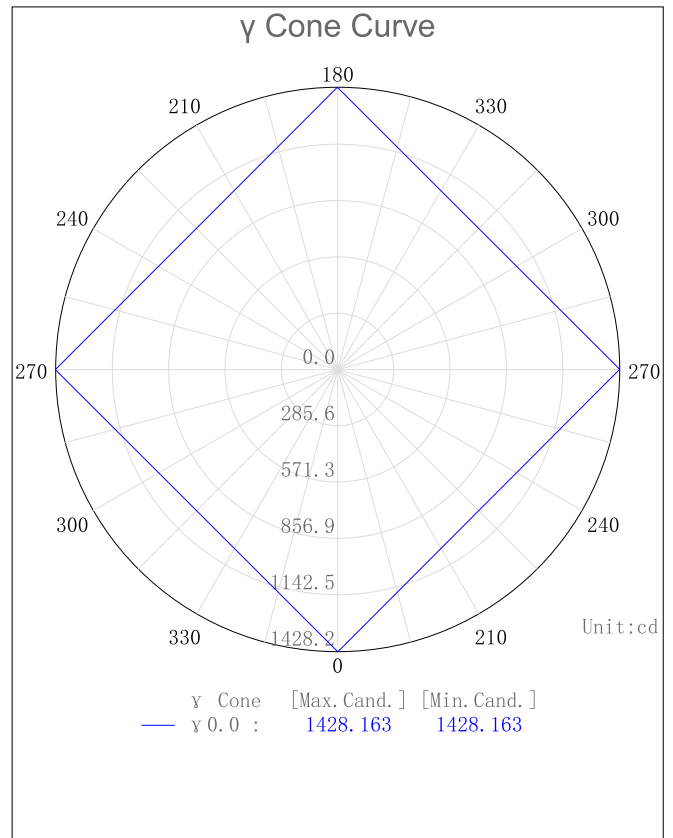
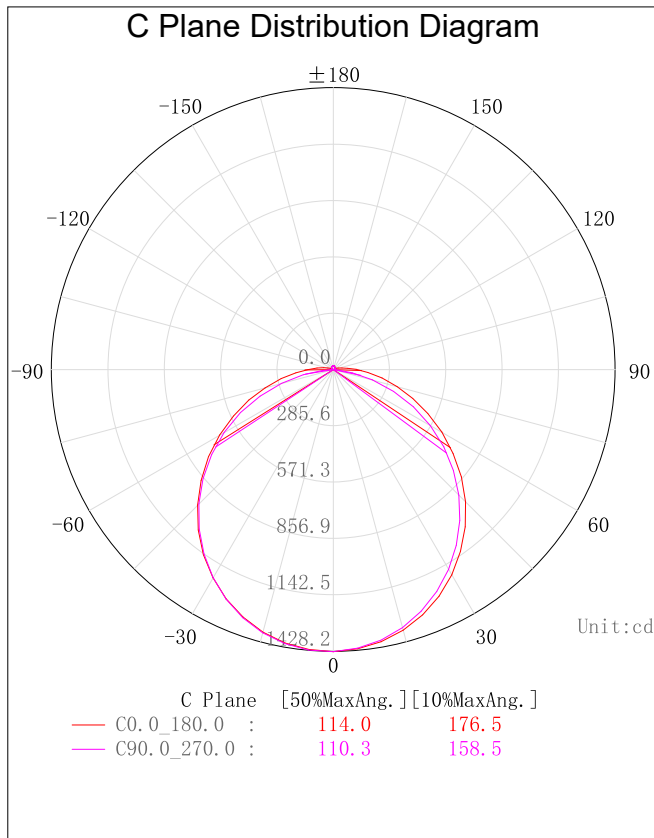
### Description Information

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Date: 2019/05/08
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.080m*1.200m*0.065m	Lum. Area(m2):0.174	Lum. W(kg): 2.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25
		Humidity(%):

### Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 4264.900	Luminaire Flux: 4264.895lm	Field Angle(10%Imax): 176.5	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 4145.838lm 97.21%	
Rated Voltage(V):	Luminaire EER(lm/W): 123.156	Up Lumens&Percent: 119.058lm 2.79%	
Tested Power(W): 34.630	Max. Cand. (cd): 1428.163	S/MH: C0_a180=1.260 C90_270=1.243	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electric:U=239.2V, I=0.159A, PF=0.000	Beam Angle(50%Imax): 114.0	ErP Φ use(120°): 3187.883lm	
Lamp Size(W*L*H):0.080m*1.200m*0.065m	Left=-57.7 Right=56.3	IRF: 109.815%	

### Lighting Distribution Diagram



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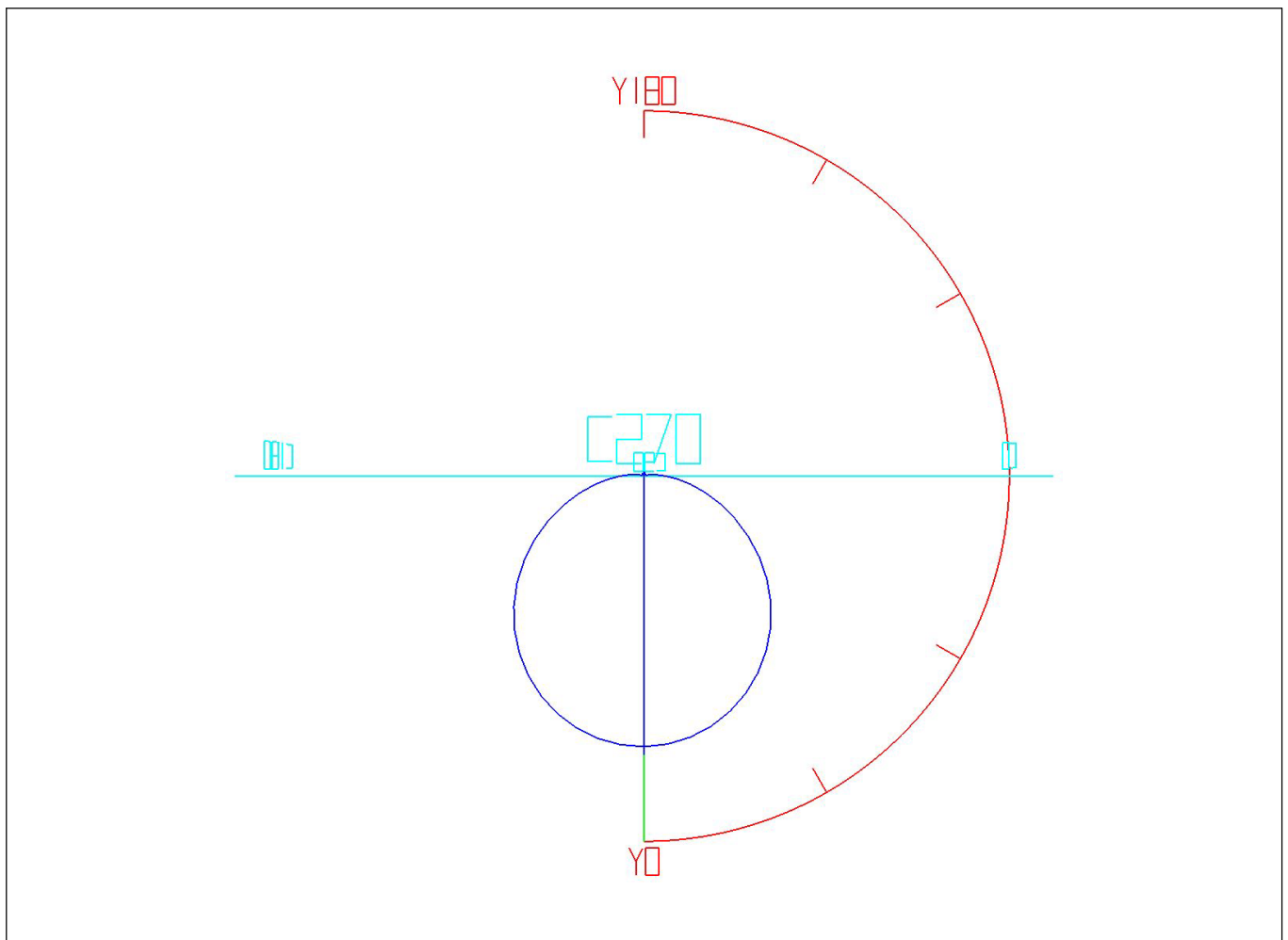
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## 3D Light Intensity Distribution Modal

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08

### 3D Light Intensity Distribution Modal



Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———  
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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## Zonal Flux Tabulation

Zone ( y )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	34.07	34.07	0.80	0.80
5.0-10.0	101.00	135.06	2.37	3.17
10.0-15.0	164.37	299.43	3.85	7.02
15.0-20.0	221.99	521.42	5.20	12.23
20.0-25.0	271.91	793.33	6.38	18.60
25.0-30.0	312.48	1105.81	7.33	25.93
30.0-35.0	342.42	1448.24	8.03	33.96
35.0-40.0	360.84	1809.07	8.46	42.42
40.0-45.0	367.21	2176.28	8.61	51.03
45.0-50.0	361.41	2537.69	8.47	59.50
50.0-55.0	343.74	2881.43	8.06	67.56
55.0-60.0	315.06	3196.49	7.39	74.95
60.0-65.0	276.90	3473.39	6.49	81.44
65.0-70.0	231.37	3704.76	5.43	86.87
70.0-75.0	181.06	3885.82	4.25	91.11
75.0-80.0	129.64	4015.46	3.04	94.15
80.0-85.0	82.51	4097.98	1.93	96.09
85.0-90.0	47.86	4145.84	1.12	97.21
90.0-95.0	28.93	4174.76	0.68	97.89
95.0-100.0	18.69	4193.45	0.44	98.32
100.0-105.0	11.69	4205.15	0.27	98.60
105.0-110.0	7.37	4212.51	0.17	98.77
110.0-115.0	5.18	4217.70	0.12	98.89
115.0-120.0	4.63	4222.33	0.11	99.00
120.0-125.0	4.76	4227.09	0.11	99.11
125.0-130.0	4.86	4231.94	0.11	99.23
130.0-135.0	4.87	4236.82	0.11	99.34
135.0-140.0	4.81	4241.63	0.11	99.45
140.0-145.0	4.64	4246.27	0.11	99.56
145.0-150.0	4.36	4250.63	0.10	99.67
150.0-155.0	3.98	4254.60	0.09	99.76
155.0-160.0	3.48	4258.08	0.08	99.84
160.0-165.0	2.86	4260.94	0.07	99.91
165.0-170.0	2.15	4263.09	0.05	99.96
170.0-175.0	1.34	4264.44	0.03	99.99
175.0-180.0	0.46	4264.90	0.01	100.00

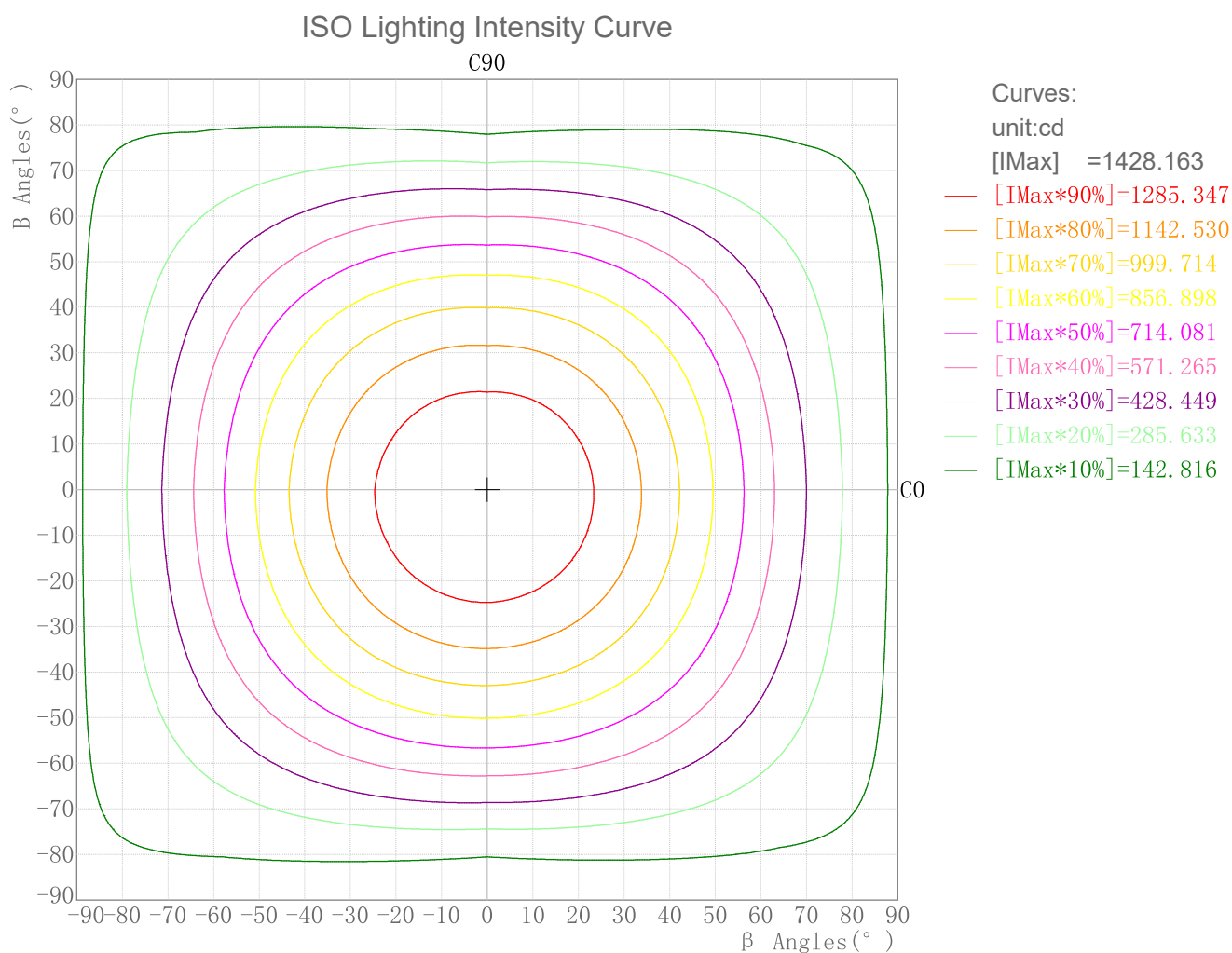
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## Rectangle ISO Lighting Intensity Diagram

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08



Maximum Light Intensity(cd): 1428.16

Maximum Cand.@Angle: H=0.0°,V=0.0°

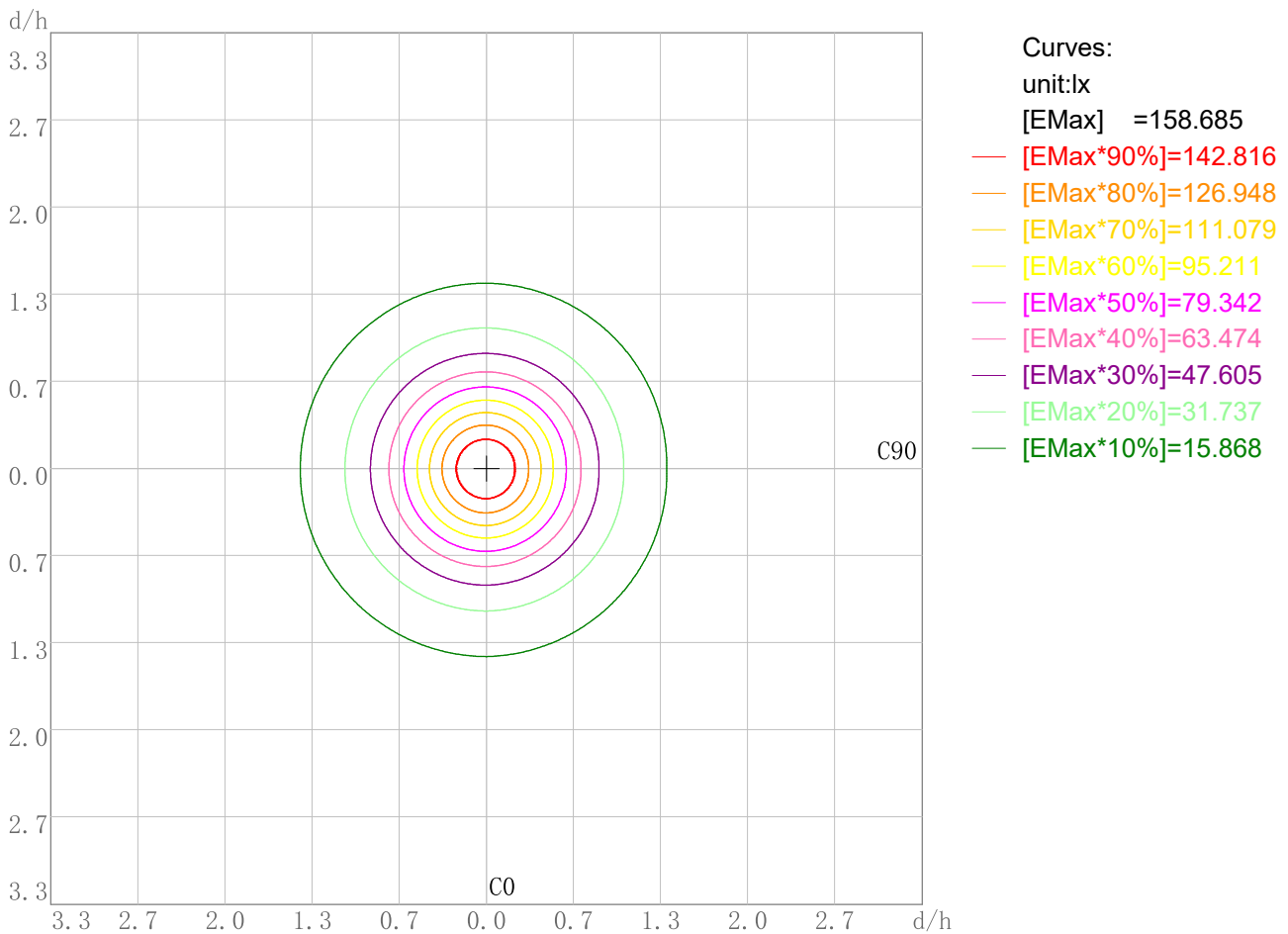
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## Plane ISO-Illuminance Diagram

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08

### Plane ISO-Illuminance Curve



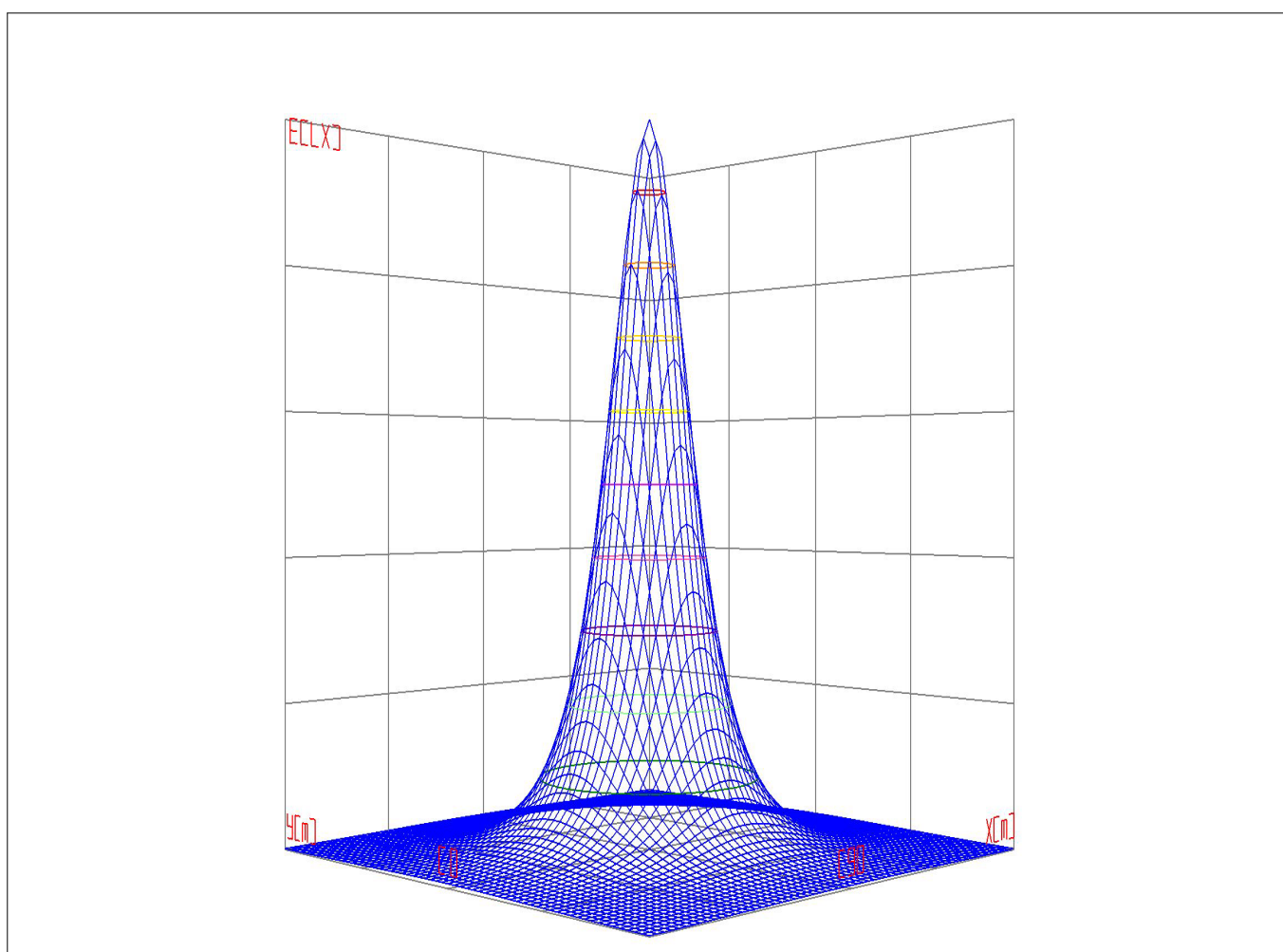
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## 3D Plane ISO Illuminance Diagram

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08

### 3D Plane Illuminance Modal



Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

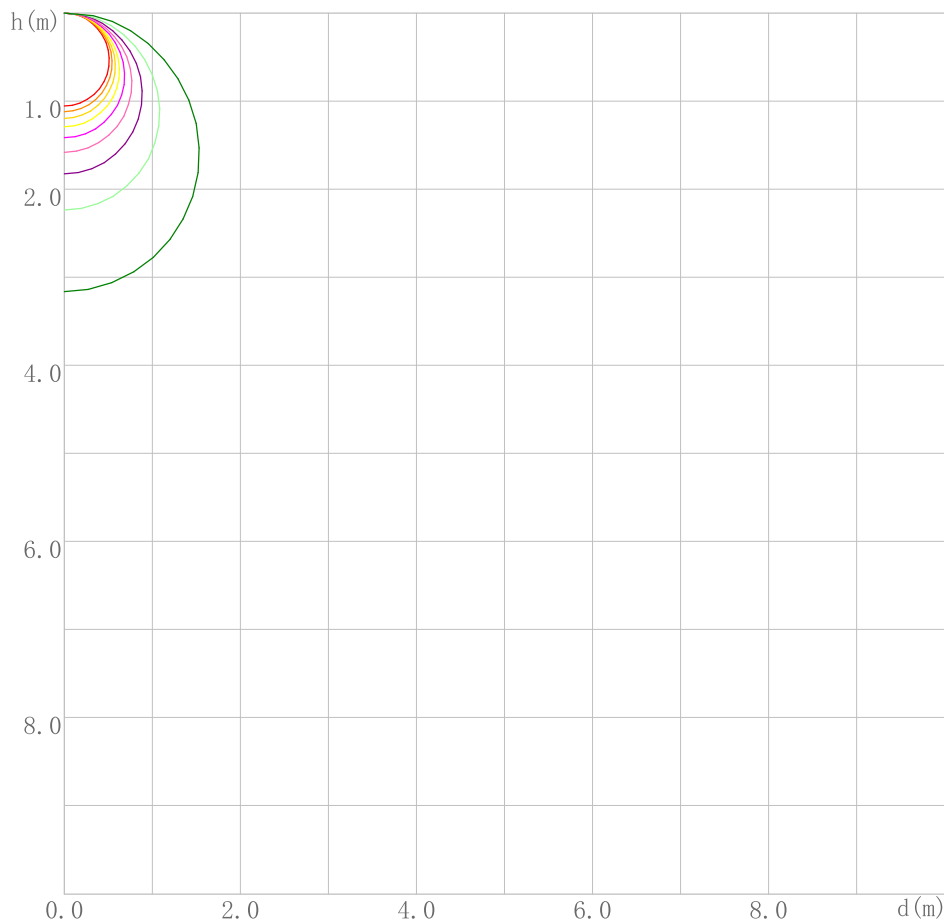
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## Space ISO Illuminance Diagram

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08

### Space ISO Illuminance Curve



- Curves:  
unit:lx  
[EMax] =1428.163
- [EMax\*90%]=1285.347
  - [EMax\*80%]=1142.530
  - [EMax\*70%]=999.714
  - [EMax\*60%]=856.898
  - [EMax\*50%]=714.081
  - [EMax\*40%]=571.265
  - [EMax\*30%]=428.449
  - [EMax\*20%]=285.633
  - [EMax\*10%]=142.816

Space Plane Maximum Illuminance and @Angle:1428.16,0.0deg  
Plane Maximum Lighting Intensity and @Angle:1428.163cd,0deg

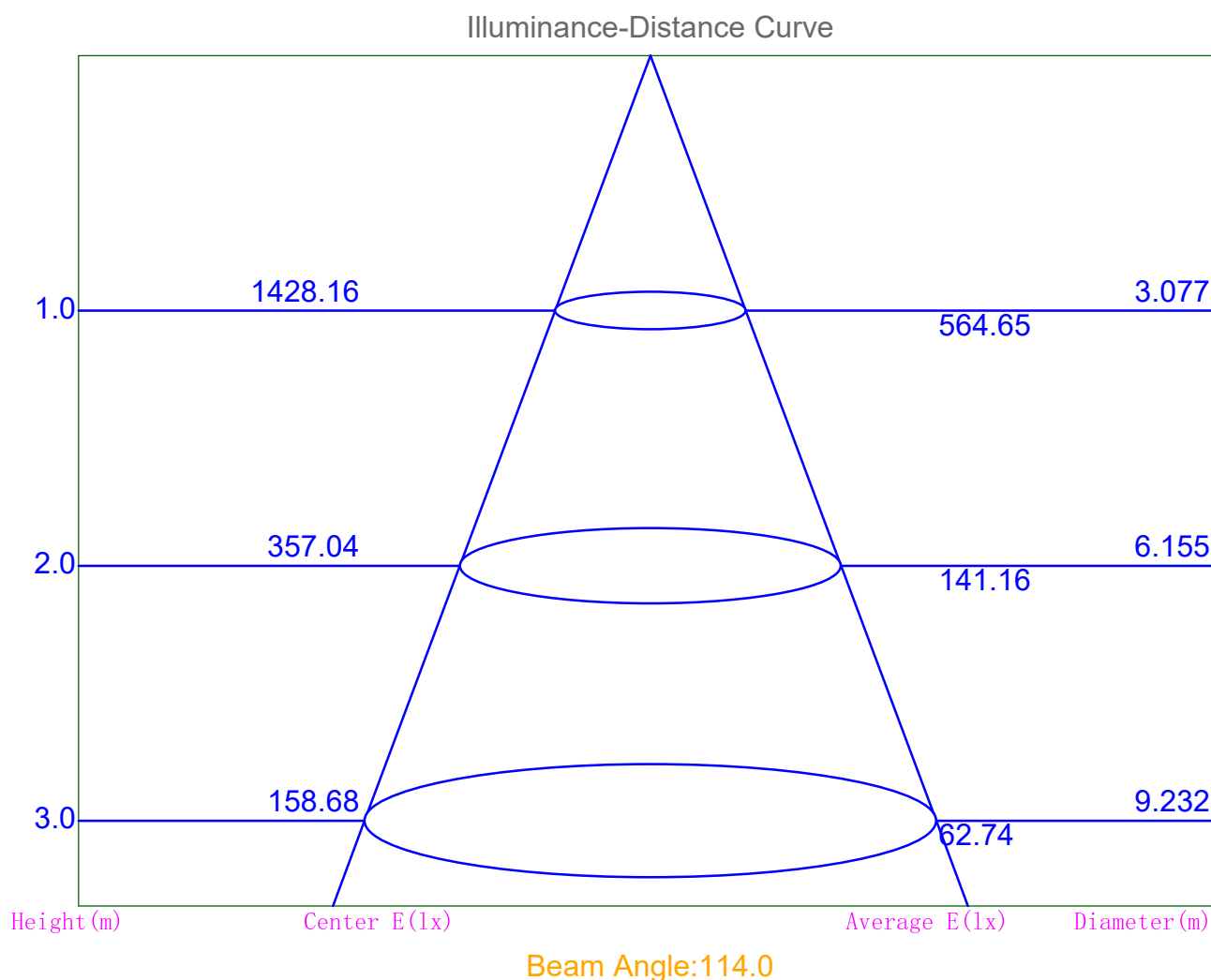
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## Illuminance-Distance Diagram

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08





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## Indoor Luminance Limiting Curves

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08

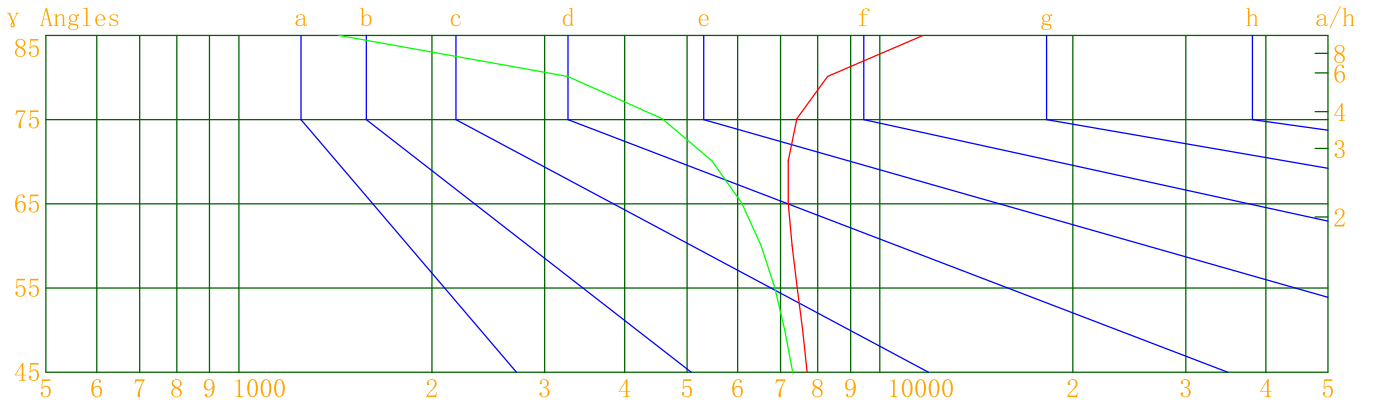
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	7696	7574	7435	7294	7195	7195	7421	8286	11677
C90	7308	7105	6853	6527	6087	5471	4573	3258	1433

Luminance Limiting Curve



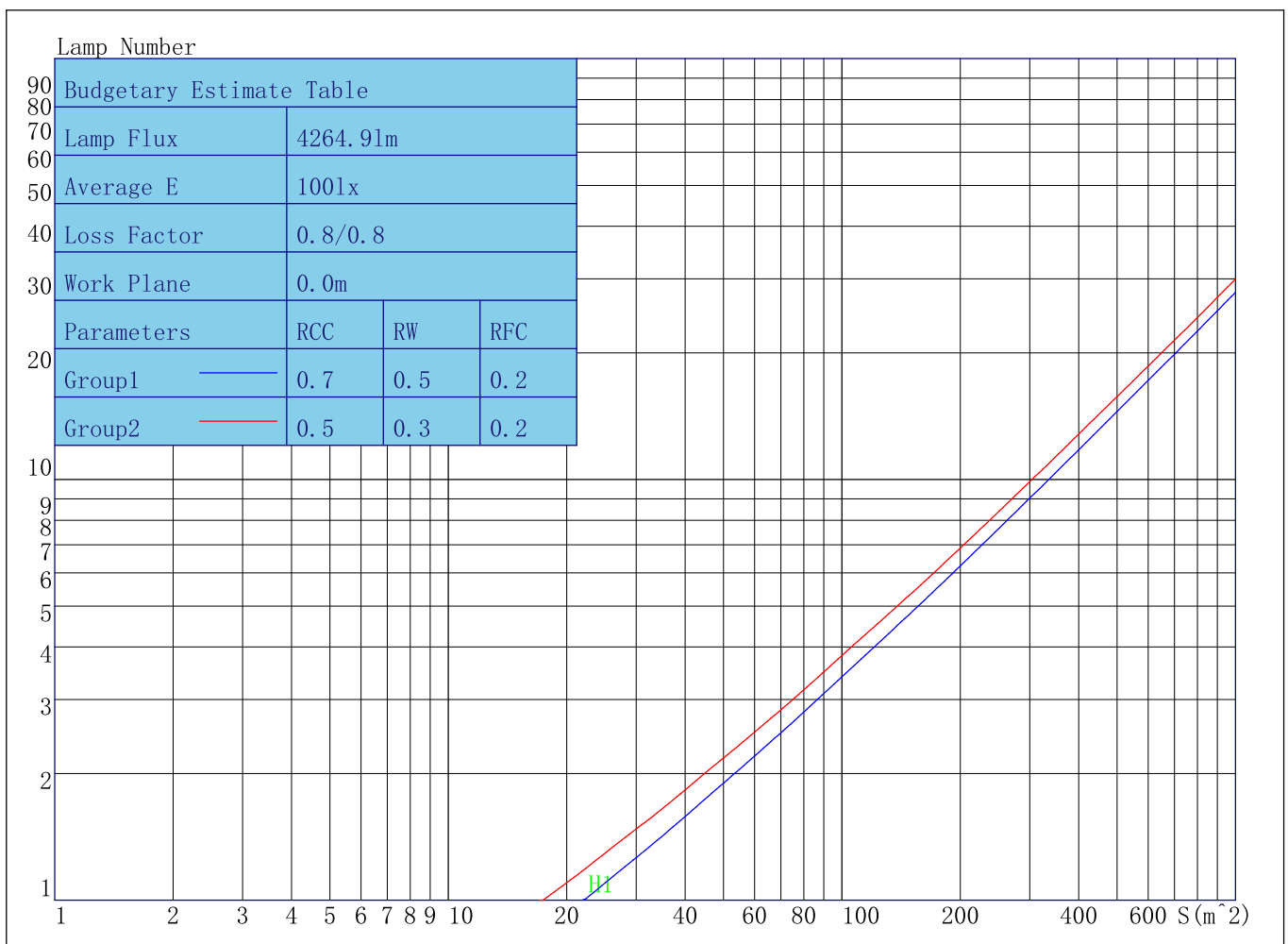
Luminous Size: Length(m)=1.200 Width(m)=0.080 Height(m)=0.065 Area(m<sup>2</sup>)=0.174000  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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## Indoor Budgetary Estimate Table

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8  
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8  
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

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## Indoor Coefficient of Utilization Table

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	86	87	85	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	47
5	75	62	53	46	72	60	52	45	58	50	45	56	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	38	48	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	32	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

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## Unified Glare Rating Table

Lum. Name: SLIMBATTEN36W4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/08

## Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Room Size	Vewed crosswise					Vewed endwise					
X=2H	Y=2H	18.6	22.2	19.4	23.0	23.7	18.0	21.7	18.9	22.4	23.2
	Y=3H	23.4	27.0	24.3	27.8	28.6	22.1	25.7	23.0	26.5	27.3
	Y=4H	26.6	29.8	27.5	30.6	31.3	24.5	27.7	25.4	28.5	29.2
	Y=6H	29.1	32.2	30.0	33.0	33.7	25.7	28.7	26.6	29.5	30.3
	Y=8H	30.3	33.4	31.2	34.2	34.9	26.0	29.0	26.8	29.8	30.6
	Y=12H	31.6	34.6	32.5	35.4	36.2	26.1	29.1	26.9	29.9	30.6
X=4H	Y=2H	20.0	23.1	20.9	23.9	24.7	19.8	23.0	20.7	23.8	24.5
	Y=3H	25.1	28.2	26.0	29.0	29.8	24.2	27.3	25.0	28.1	28.9
	Y=4H	26.9	28.8	28.0	29.8	30.8	25.2	27.1	26.3	28.1	29.1
	Y=6H	29.9	31.6	31.1	32.7	33.6	26.9	28.6	28.0	29.6	30.6
	Y=8H	31.5	33.1	32.6	34.2	35.2	27.4	29.1	28.5	30.1	31.1
	Y=12H	32.3	33.7	33.5	34.8	35.9	26.8	28.2	28.0	29.4	30.4
X=8H	Y=4H	27.2	28.9	28.4	29.9	30.9	25.9	27.5	27.0	28.6	29.6
	Y=6H	29.7	30.9	31.0	32.0	33.1	27.1	28.3	28.4	29.4	30.5
	Y=8H	31.1	32.0	32.4	33.2	34.3	27.4	28.3	28.8	29.6	30.7
	Y=12H	33.1	33.9	34.4	35.2	36.3	28.0	28.8	29.3	30.1	31.2
X=12H	Y=4H	26.3	27.7	27.6	28.9	29.9	25.1	26.5	26.4	27.7	28.7
	Y=6H	29.3	30.2	30.6	31.5	32.6	26.8	27.8	28.1	29.0	30.1
	Y=8H	31.1	32.0	32.4	33.2	34.3	27.8	28.6	29.1	29.8	31.0
Variations with the objver position at spacings											
S=1.0H	2.4/-1.2					2.6/-0.7					
S=1.5H	-1.2/-19.7					-0.7/-18.0					
S=2.0H	-1.2/-19.7					-0.7/-18.0					

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## Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	1428.16	1428.16	1428.16	1428.16
Y 5.0	1420.39	1416.56	1423.39	1425.65
Y 10.0	1400.02	1391.56	1406.04	1409.41
Y 15.0	1367.39	1353.22	1376.20	1379.80
Y 20.0	1322.87	1302.80	1334.71	1337.29
Y 25.0	1267.13	1240.94	1281.77	1282.66
Y 30.0	1200.82	1168.75	1218.29	1216.53
Y 35.0	1124.65	1087.09	1144.85	1140.42
Y 40.0	1039.92	996.79	1062.09	1055.18
Y 45.0	946.92	899.10	971.47	961.34
Y 50.0	847.12	794.68	873.70	859.90
Y 55.0	741.98	683.94	770.77	751.59
Y 60.0	634.58	567.81	664.32	637.14
Y 65.0	529.12	447.62	558.02	517.49
Y 70.0	428.19	325.57	454.58	394.47
Y 75.0	334.20	205.93	357.10	270.77
Y 80.0	250.37	98.43	268.06	153.21
Y 85.0	177.08	21.73	189.95	55.84
Y 90.0	116.21	3.85	126.59	7.93
Y 95.0	74.19	4.90	82.00	6.92
Y 100.0	44.83	5.90	49.36	7.00
Y 105.0	25.71	6.92	27.57	7.54
Y 110.0	14.34	7.86	14.67	8.16
Y 115.0	10.14	8.87	8.86	8.97
Y 120.0	10.56	9.79	9.34	9.73
Y 125.0	11.39	10.68	10.27	10.55
Y 130.0	12.16	11.59	11.33	11.37
Y 135.0	13.03	12.47	12.27	12.23
Y 140.0	13.87	13.55	13.28	13.18
Y 145.0	14.68	14.45	14.15	14.10
Y 150.0	15.50	15.42	15.01	15.11
Y 155.0	16.26	16.36	15.95	16.05
Y 160.0	17.06	17.18	16.69	17.00
Y 165.0	17.72	17.98	17.56	17.82
Y 170.0	18.49	18.51	18.40	18.53
Y 175.0	19.15	18.93	19.12	19.06
Y 180.0	19.40	19.40	19.40	19.40

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