

IES Indoor Report

Photometric Filename:SMDL7W3K-WH-2019-10-22.IES

Indoor Luminaire Photometric Data

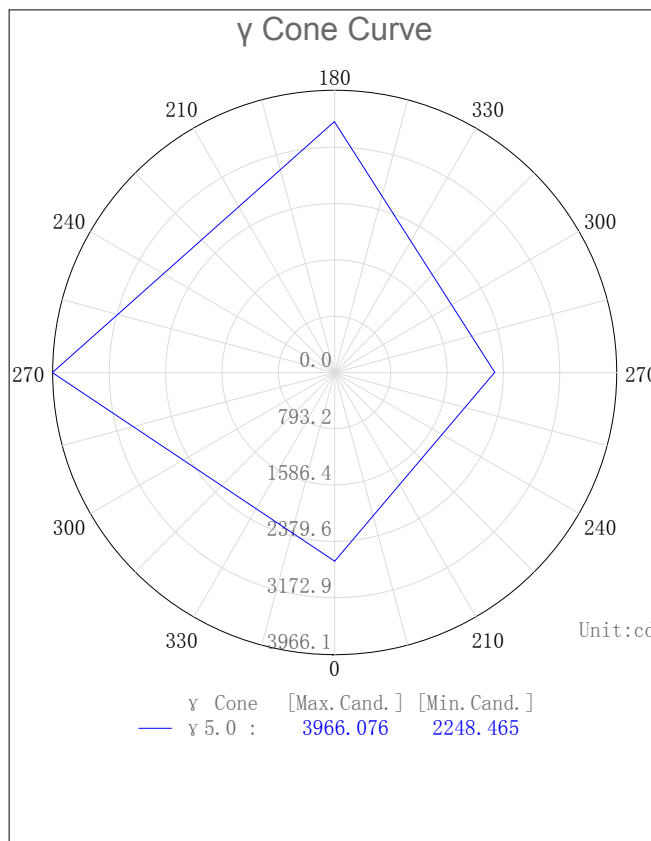
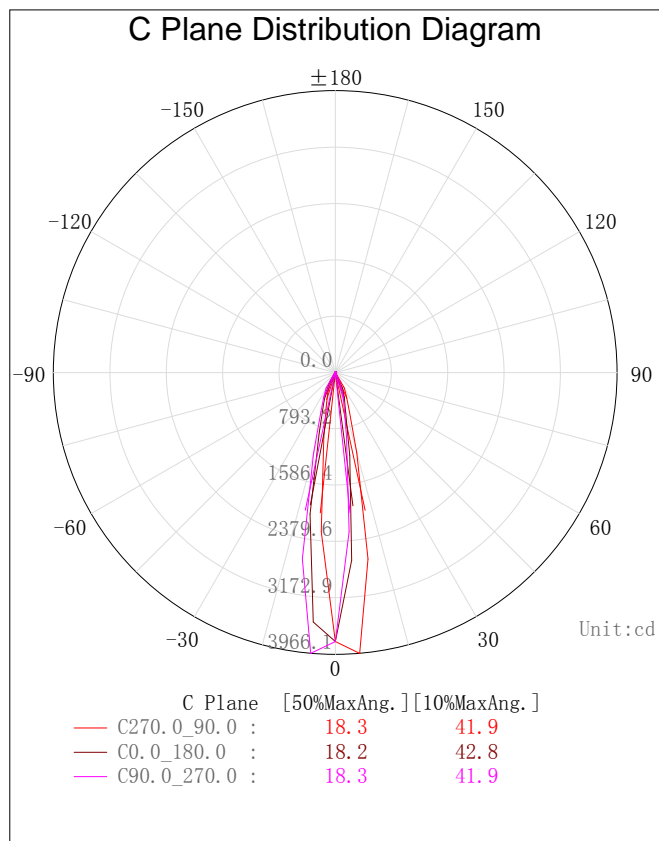
Description Information

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Date: 2019/10/22
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.060m*0.060m*0.130m	Lum. Area(m2):0.011	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): 675.410	Luminaire Flux: 675.413lm	Field Angle(10%Imax): 41.9
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 668.812lm 99.02%
Rated Voltage(V):	Luminaire EER(lm/W): 91.968	Up Lumens&Percent: 6.601lm 0.98%
Tested Power(W): 7.344	Max. Cand. (cd): 3966.076	S/MH: CO_a180=0.310 C90_270=0.325
Lamps' Inside: 1	Max Cand@Ang. (°): C=270.0 γ=5.0	CIE Type: Semi-Direct
Tested Electric:U=239.8V, I=0.031A, PF=0.000	Beam Angle(50%Imax): 18.3	ErP Φuse(90°): 627.189lm
Lamp Size(W*L*H):0.060m*0.060m*0.130m	Left=-6.0 Right=12.3	IRF: 1391.550%

Lighting Distribution Diagram



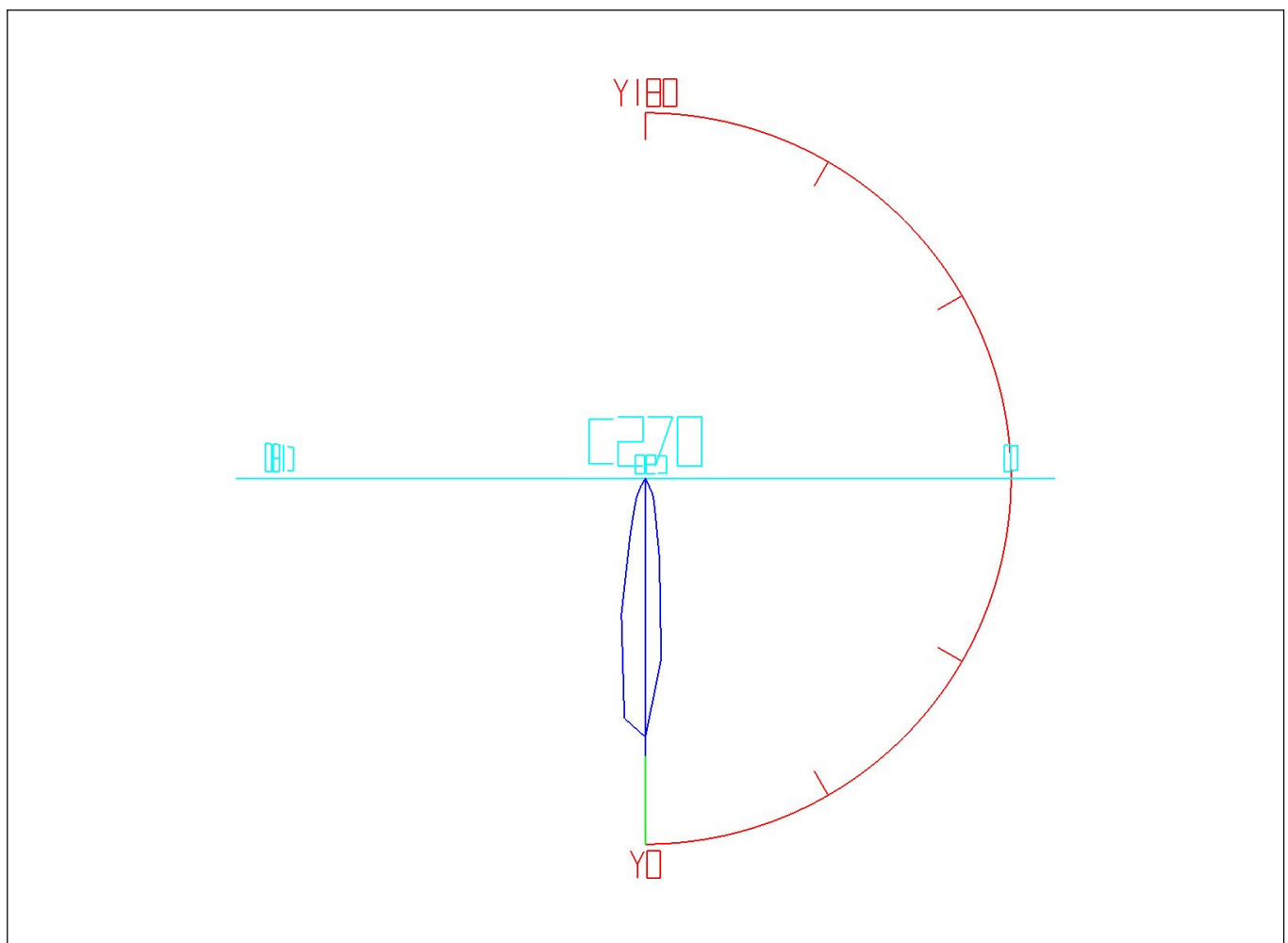
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3D Light Intensity Distribution Modal

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

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	82.28	82.28	12.18	12.18
5.0-10.0	171.57	253.85	25.40	37.58
10.0-15.0	146.50	400.35	21.69	59.27
15.0-20.0	99.54	499.89	14.74	74.01
20.0-25.0	74.00	573.89	10.96	84.97
25.0-30.0	48.20	622.08	7.14	92.10
30.0-35.0	19.73	641.82	2.92	95.03
35.0-40.0	6.05	647.86	0.90	95.92
40.0-45.0	4.48	652.34	0.66	96.58
45.0-50.0	3.64	655.98	0.54	97.12
50.0-55.0	3.20	659.18	0.47	97.60
55.0-60.0	2.91	662.09	0.43	98.03
60.0-65.0	2.54	664.63	0.38	98.40
65.0-70.0	1.96	666.59	0.29	98.69
70.0-75.0	1.26	667.85	0.19	98.88
75.0-80.0	0.66	668.51	0.10	98.98
80.0-85.0	0.25	668.76	0.04	99.02
85.0-90.0	0.05	668.81	0.01	99.02
90.0-95.0	0.00	668.81	0.00	99.02
95.0-100.0	0.00	668.81	0.00	99.02
100.0-105.0	0.00	668.81	0.00	99.02
105.0-110.0	0.00	668.81	0.00	99.02
110.0-115.0	0.00	668.81	0.00	99.02
115.0-120.0	0.00	668.81	0.00	99.02
120.0-125.0	0.02	668.83	0.00	99.03
125.0-130.0	0.17	669.00	0.03	99.05
130.0-135.0	0.49	669.49	0.07	99.12
135.0-140.0	0.82	670.31	0.12	99.24
140.0-145.0	1.01	671.32	0.15	99.39
145.0-150.0	1.03	672.34	0.15	99.55
150.0-155.0	0.94	673.28	0.14	99.68
155.0-160.0	0.80	674.07	0.12	99.80
160.0-165.0	0.62	674.70	0.09	99.89
165.0-170.0	0.42	675.12	0.06	99.96
170.0-175.0	0.23	675.35	0.03	99.99
175.0-180.0	0.07	675.41	0.01	100.00

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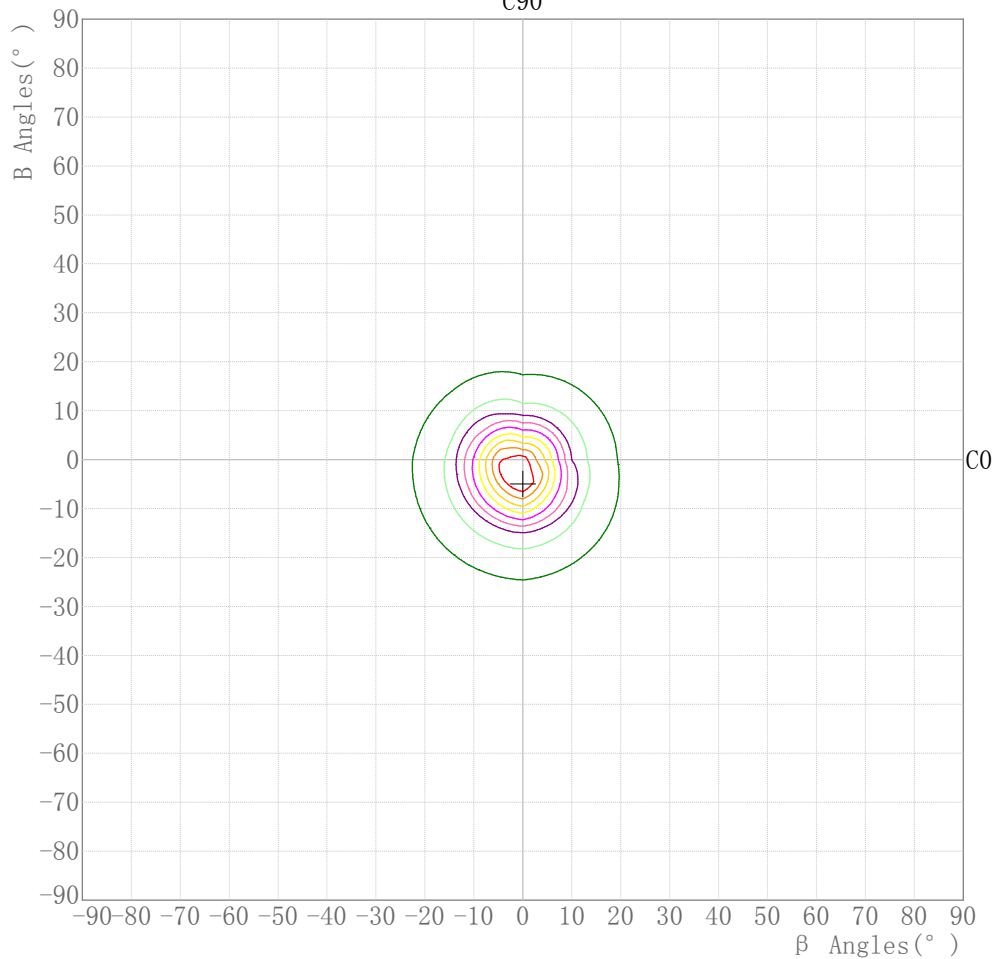
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

ISO Lighting Intensity Curve

C90



Curves:

unit:cd

[IMax] =3966.076

[IMax*90%]=3569.468

[IMax*80%]=3172.861

[IMax*70%]=2776.253

[IMax*60%]=2379.646

[IMax*50%]=1983.038

[IMax*40%]=1586.430

[IMax*30%]=1189.823

[IMax*20%]=793.215

[IMax*10%]=396.608

Maximum Light Intensity(cd): 3966.08

Maximum Cand.@Angle: H=-0.0°,V=-5.0°

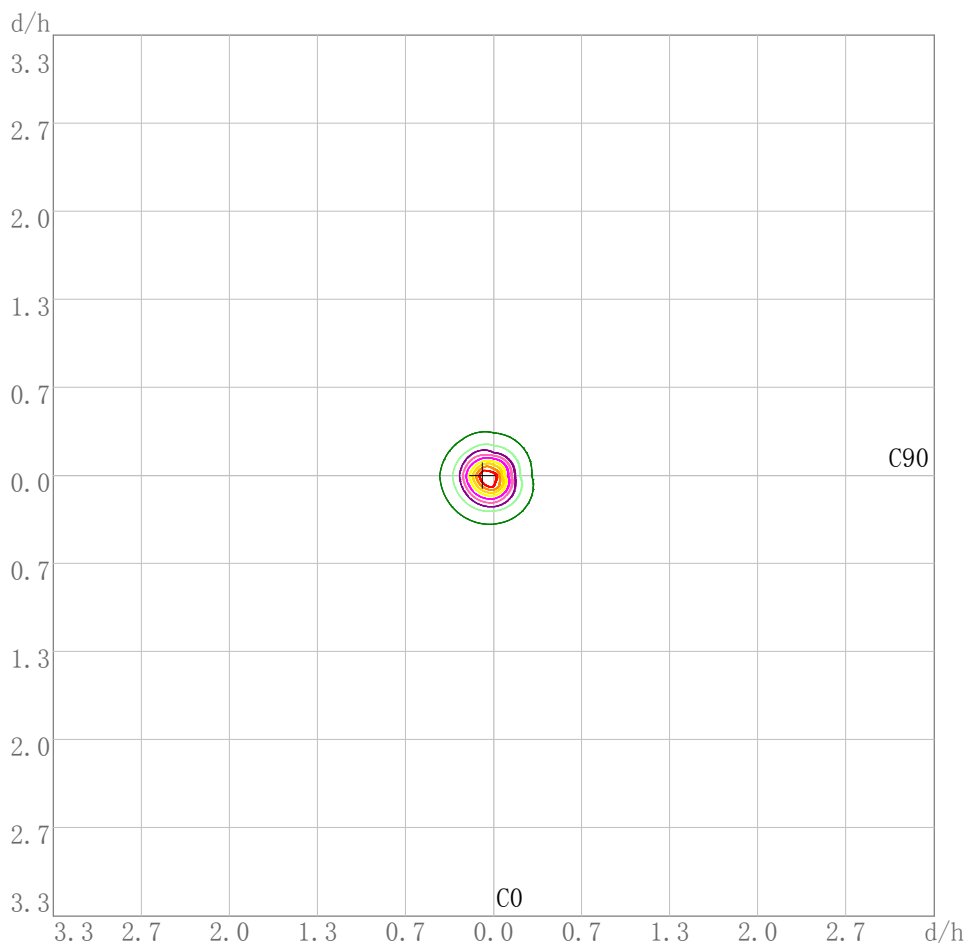
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Plane ISO-Illuminance Diagram

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

Plane ISO-Illuminance Curve



- Curves:
unit:lx
- [EMax] =435.663
 - [EMax*90%]=392.097
 - [EMax*80%]=348.531
 - [EMax*70%]=304.964
 - [EMax*60%]=261.398
 - [EMax*50%]=217.832
 - [EMax*40%]=174.265
 - [EMax*30%]=130.699
 - [EMax*20%]=87.133
 - [EMax*10%]=43.566

Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 435.66
 Working Plane Maximum Illuminance Position(d/h):H-0.1 V-0.0

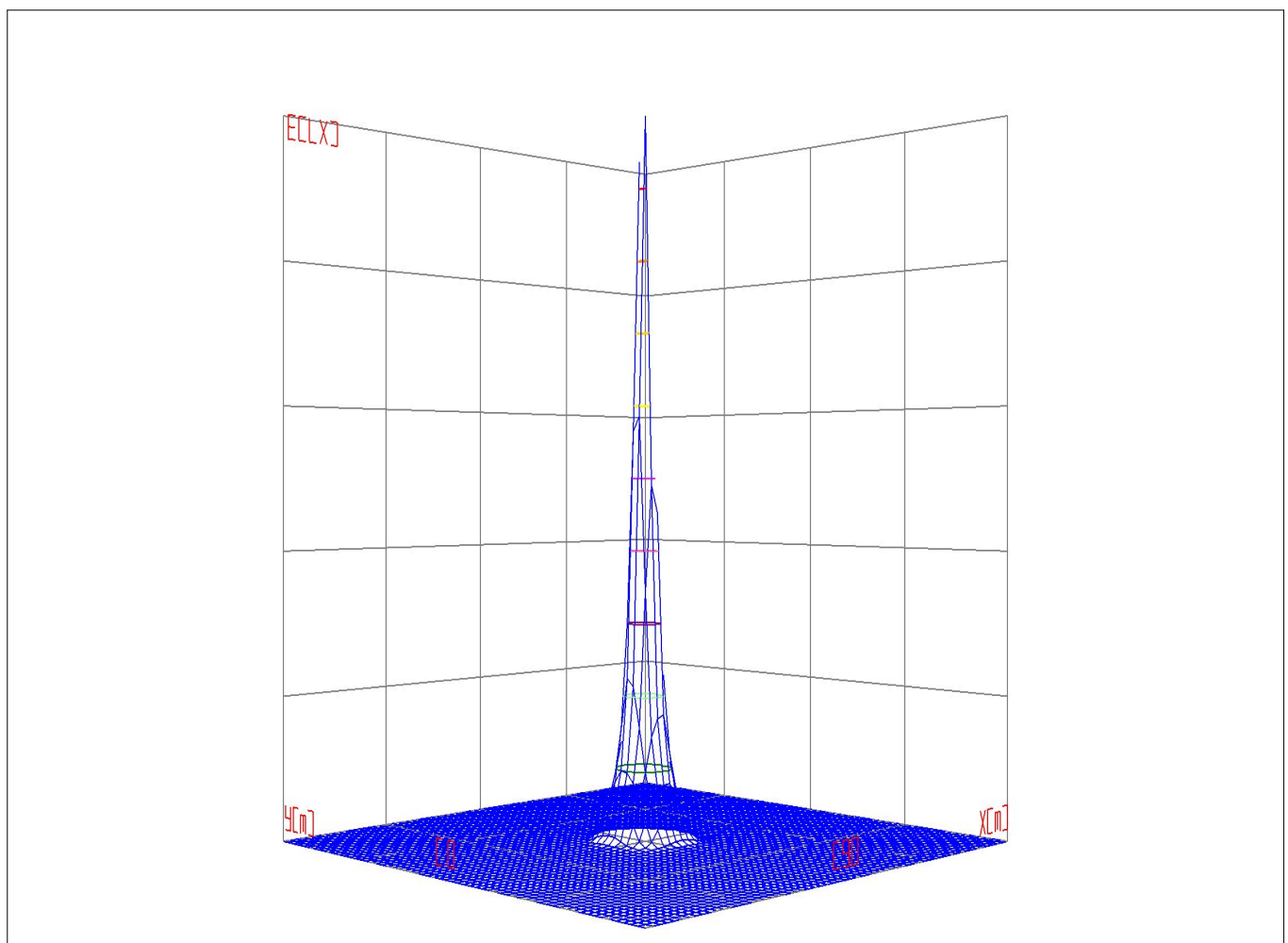
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3D Plane ISO Illuminance Diagram

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

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

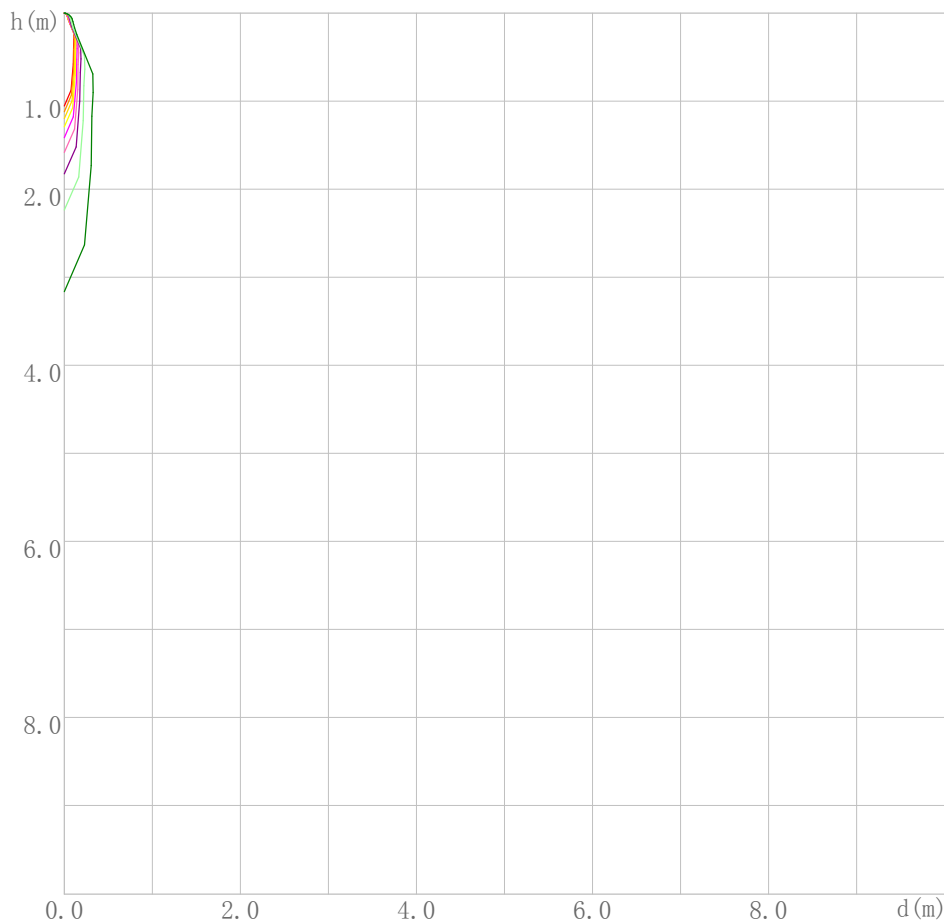
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Space ISO Illuminance Diagram

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

Space ISO Illuminance Curve

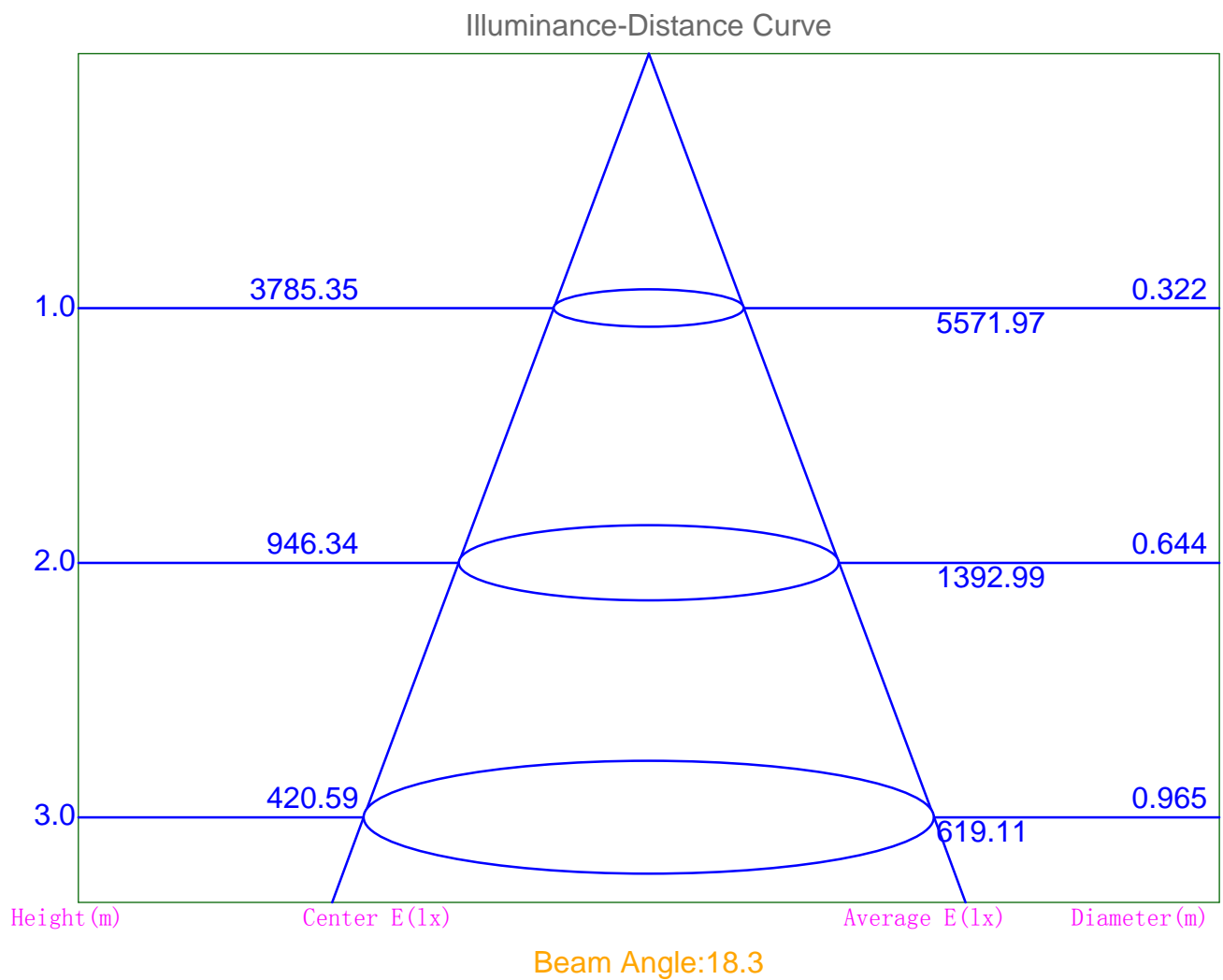


- Curves:
unit:lx
[EMax] =3785.348
- [EMax*90%]=3406.813
 - [EMax*80%]=3028.278
 - [EMax*70%]=2649.744
 - [EMax*60%]=2271.209
 - [EMax*50%]=1892.674
 - [EMax*40%]=1514.139
 - [EMax*30%]=1135.604
 - [EMax*20%]=757.070
 - [EMax*10%]=378.535

Space Plane Maximum Illuminance and @Angle:3785.35,0.0deg
Plane Maximum Lighting Intensity and @Angle:3785.348cd,0deg

Illuminance-Distance Diagram

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22



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Indoor Luminance Limiting Curves

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

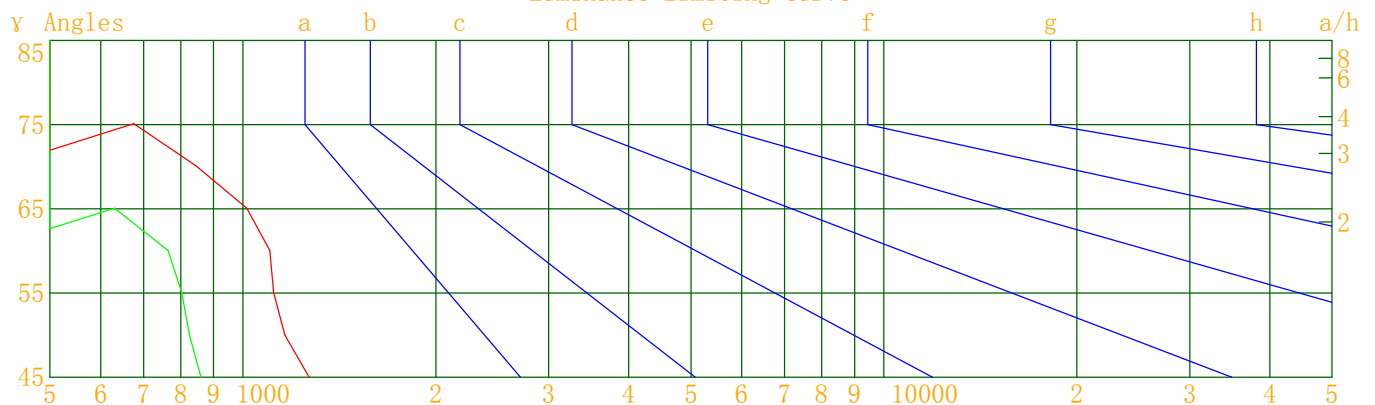
Glare Grade Table

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	1269	1163	1116	1101	1014	846	676	419	0
C90	860	825	803	764	631	393	140	0	0

Luminance Limiting Curve



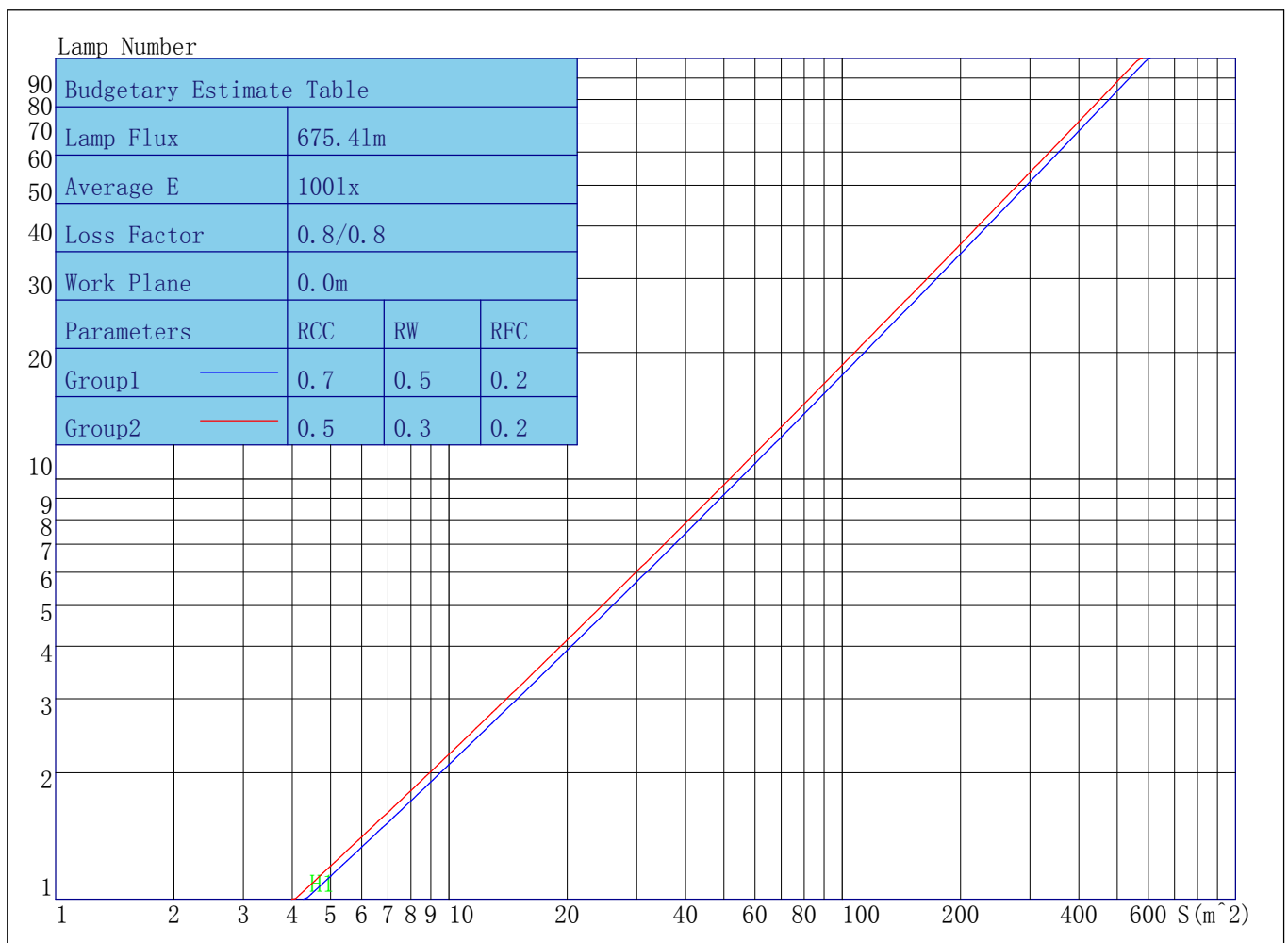
Luminous Size: Length(m)=0.060 Width(m)=0.060 Height(m)=0.130 Area(m^2)=0.011400
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22



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: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	115	112	110	109	112	110	108	107	106	105	103	102	101	100	99	98	97	95
2	111	107	104	101	108	105	102	100	102	100	98	99	97	95	96	95	93	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	93	91	90	88
4	103	98	94	91	102	97	93	90	95	91	89	93	90	88	91	89	87	85
5	100	94	90	87	99	93	89	86	91	88	85	90	87	85	88	86	84	83
6	97	91	86	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	84	80	78	83	80	77	82	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	72

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Unified Glare Rating Table

Lum. Name: SMDL7W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/10/22

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	10.9	12.6	11.7	13.3	13.9	9.0	10.7	9.8	11.4	12.1
Y=3H	11.6	13.3	12.4	14.0	14.6	9.3	11.0	10.1	11.7	12.3
Y=4H	11.9	13.6	12.7	14.3	14.9	9.3	11.0	10.1	11.7	12.3
Y=6H	12.0	13.7	12.8	14.4	15.0	9.2	10.8	10.0	11.5	12.2
Y=8H	12.0	13.7	12.8	14.4	15.0	9.1	10.7	9.9	11.4	12.1
Y=12H	11.9	13.6	12.7	14.3	14.9	9.0	10.7	9.8	11.4	12.0
X=4H Y=2H	10.5	12.2	11.3	12.9	13.5	8.8	10.4	9.6	11.1	11.8
Y=3H	11.3	13.0	12.1	13.7	14.3	9.2	10.8	10.0	11.5	12.2
Y=4H	9.6	10.7	10.6	11.6	12.5	7.1	8.2	8.1	9.2	10.0
Y=6H	9.7	10.9	10.7	11.8	12.6	7.0	8.1	8.0	9.0	9.9
Y=8H	9.7	10.9	10.7	11.8	12.6	6.9	8.0	7.9	9.0	9.8
Y=12H	8.8	9.7	9.9	10.7	11.7	5.9	6.8	7.1	7.9	8.8
X=8H Y=4H	9.3	10.5	10.3	11.4	12.2	6.9	8.0	7.9	8.9	9.8
Y=6H	8.6	9.5	9.8	10.6	11.5	5.9	6.8	7.0	7.8	8.8
Y=8H	8.2	8.9	9.3	10.0	11.0	5.4	6.1	6.5	7.2	8.2
Y=12H	8.1	8.8	9.3	9.9	10.9	5.3	6.0	6.5	7.1	8.1
X=12H Y=4H	8.4	9.3	9.5	10.3	11.2	5.9	6.8	7.0	7.9	8.8
Y=6H	8.1	8.8	9.3	9.9	10.9	5.4	6.1	6.5	7.2	8.2
Y=8H	8.1	8.8	9.3	9.9	10.9	5.3	6.0	6.5	7.1	8.1
Variations with the objver position at spacings										
S=1.0H	-4.8/-14.5					-6.2/-12.6				
S=1.5H	-11.4/-31.2					-12.5/-28.3				
S=2.0H	-13.3/-31.2					-12.5/-28.4				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Υ 0.0	3785.35	3785.35	3785.35	3785.35
Υ 5.0	2651.25	2248.47	3524.13	3966.08
Υ 10.0	1184.07	923.98	2024.13	2661.67
Υ 15.0	573.75	472.60	865.81	1172.62
Υ 20.0	369.17	310.10	478.41	588.83
Υ 25.0	242.71	138.82	315.13	379.08
Υ 30.0	34.23	19.56	139.69	254.15
Υ 35.0	19.52	13.23	19.86	35.72
Υ 40.0	13.72	9.09	13.65	20.16
Υ 45.0	10.23	6.93	9.12	13.86
Υ 50.0	8.52	6.05	6.97	10.31
Υ 55.0	7.30	5.25	6.00	8.53
Υ 60.0	6.28	4.36	5.26	7.37
Υ 65.0	4.88	3.04	4.33	6.33
Υ 70.0	3.30	1.53	2.74	4.83
Υ 75.0	1.99	0.41	1.42	3.07
Υ 80.0	0.83	0.00	0.29	1.79
Υ 85.0	0.00	0.00	0.00	0.76
Υ 90.0	0.00	0.00	0.00	0.00
Υ 95.0	0.00	0.00	0.00	0.00
Υ 100.0	0.00	0.00	0.00	0.00
Υ 105.0	0.00	0.00	0.00	0.00
Υ 110.0	0.00	0.00	0.00	0.00
Υ 115.0	0.00	0.00	0.00	0.00
Υ 120.0	0.00	0.00	0.00	0.00
Υ 125.0	0.23	0.04	0.00	0.00
Υ 130.0	0.93	1.01	0.48	0.44
Υ 135.0	2.05	2.04	1.48	1.35
Υ 140.0	3.01	2.95	2.54	2.30
Υ 145.0	3.70	3.33	3.20	3.08
Υ 150.0	4.09	3.54	3.61	3.31
Υ 155.0	4.14	3.71	3.70	3.48
Υ 160.0	4.07	3.74	3.82	3.74
Υ 165.0	3.84	3.55	3.71	3.78
Υ 170.0	3.36	3.08	3.49	3.69
Υ 175.0	2.76	2.57	2.98	3.35
Υ 180.0	2.63	2.63	2.63	2.63
