

IES Indoor Report

Photometric Filename:ICDLR12WCTA-WH 4K.IES

Indoor Luminaire Photometric Data

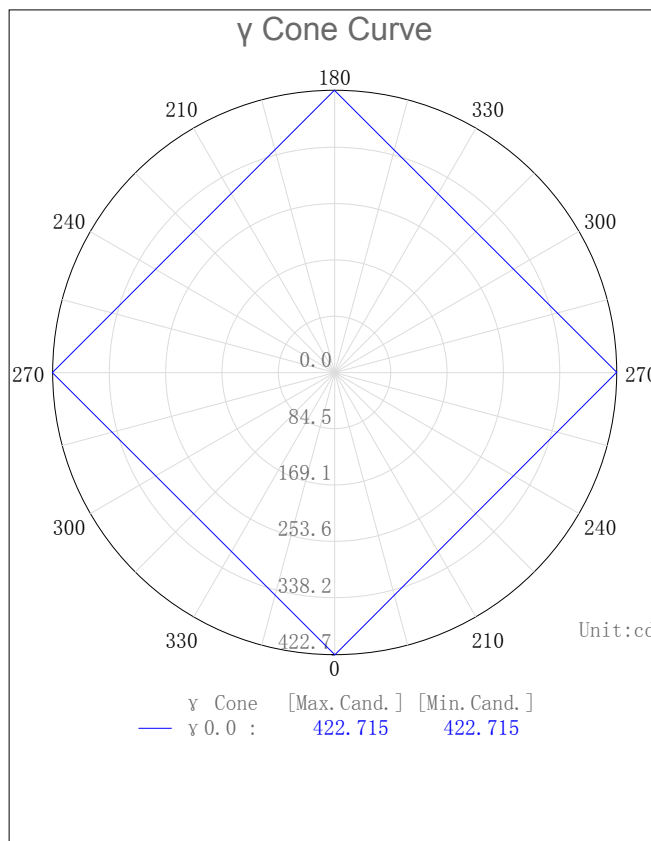
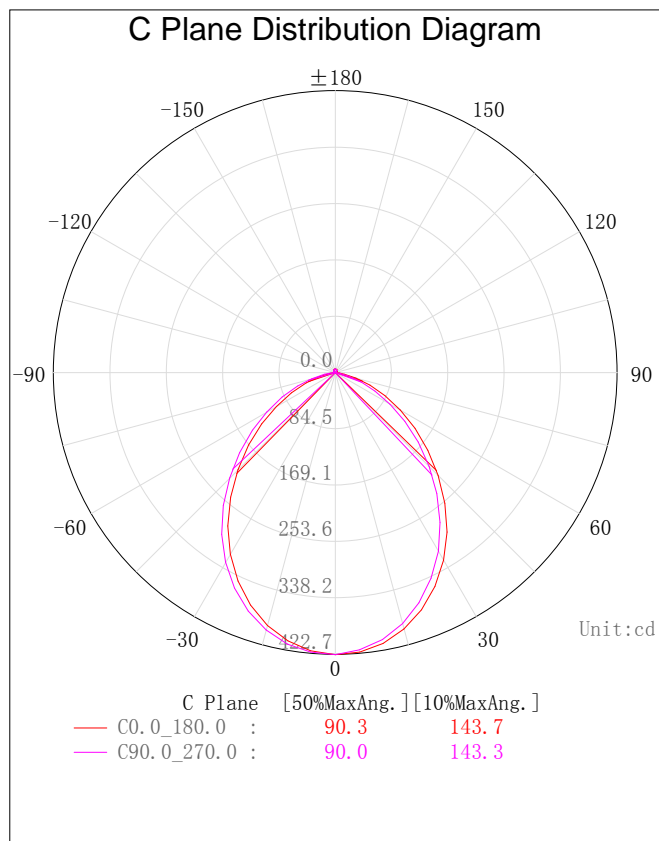
Description Information

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Date: 2019/01/14
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):108.000m*108.000m*42.000m	Lum. Area(m2):16200.000	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): 1000.000	Luminaire Flux: 907.709lm	Field Angle(10%Imax): 143.7
Rated Power(W):	Luminaire Efficiency: 90.77%	Down Lumens&Percent: 892.508lm 98.33%
Rated Voltage(V):	Luminaire EER(lm/W): 74.893	Up Lumens&Percent: 15.201lm 1.67%
Tested Power(W): 12.120	Max. Cand. (cd): 422.715	S/MH: C0_a180=1.138 C90_270=1.136
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electric:U=240.7V, I=0.060A, PF=0.000	Beam Angle(50%Imax): 90.3	ErP Φuse(120°): 770.570lm
Lamp Size(W*L*H):108.000m*108.000m*42.000m	Left=-44.3 Right=46.0	IRF: 128.540%

Lighting Distribution Diagram



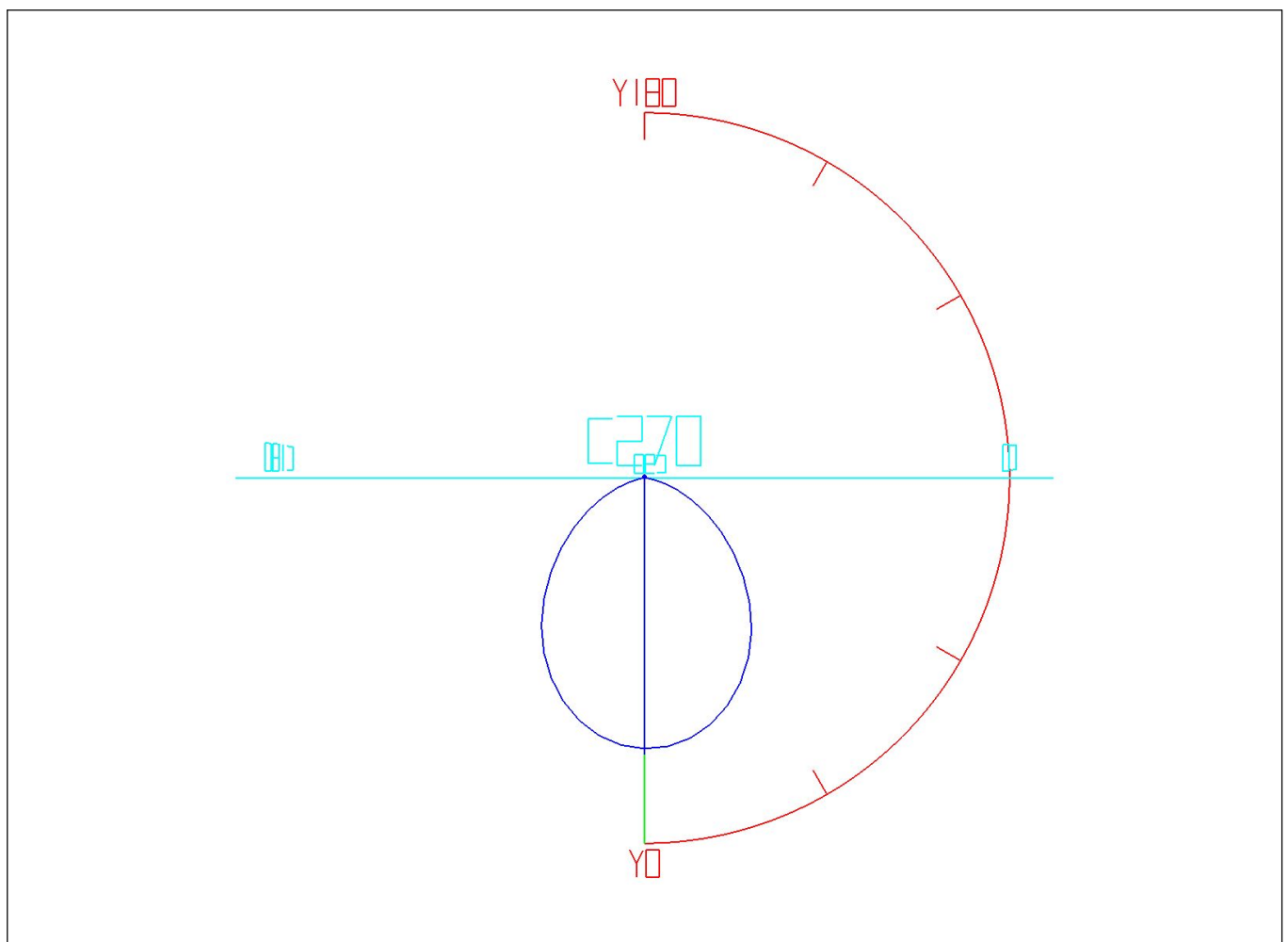
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3D Light Intensity Distribution Modal

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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

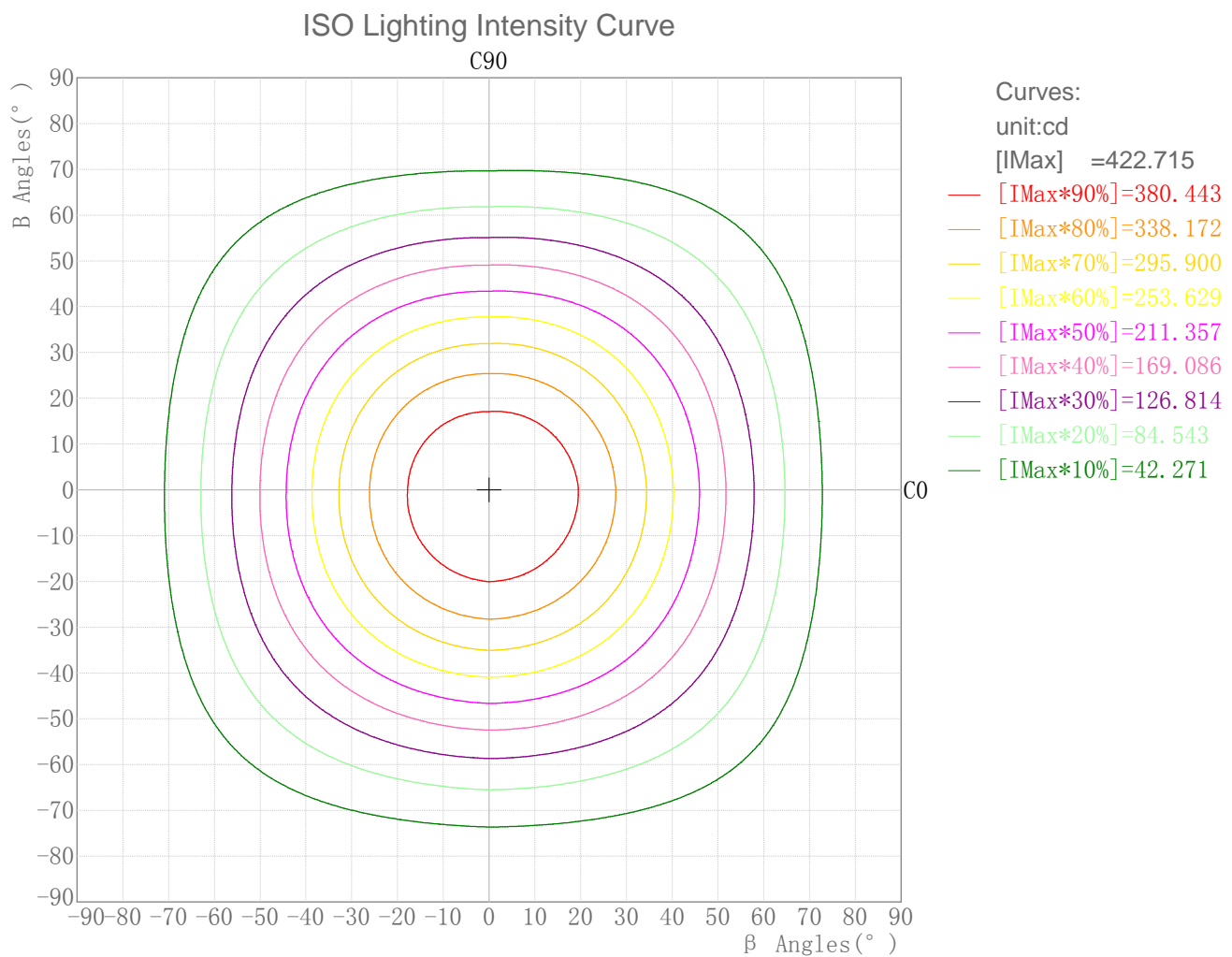
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	10.07	10.07	1.01	1.01
5.0-10.0	29.68	39.75	2.97	3.98
10.0-15.0	47.77	87.52	4.78	8.75
15.0-20.0	63.41	150.94	6.34	15.09
20.0-25.0	75.85	226.79	7.59	22.68
25.0-30.0	84.54	311.33	8.45	31.13
30.0-35.0	89.10	400.44	8.91	40.04
35.0-40.0	89.27	489.71	8.93	48.97
40.0-45.0	85.35	575.06	8.54	57.51
45.0-50.0	78.14	653.20	7.81	65.32
50.0-55.0	68.45	721.65	6.84	72.17
55.0-60.0	57.04	778.70	5.70	77.87
60.0-65.0	44.72	823.42	4.47	82.34
65.0-70.0	32.26	855.67	3.23	85.57
70.0-75.0	20.49	876.16	2.05	87.62
75.0-80.0	10.55	886.71	1.05	88.67
80.0-85.0	4.30	891.01	0.43	89.10
85.0-90.0	1.50	892.51	0.15	89.25
90.0-95.0	0.59	893.10	0.06	89.31
95.0-100.0	0.61	893.72	0.06	89.37
100.0-105.0	0.69	894.41	0.07	89.44
105.0-110.0	0.79	895.19	0.08	89.52
110.0-115.0	0.89	896.09	0.09	89.61
115.0-120.0	0.99	897.08	0.10	89.71
120.0-125.0	1.08	898.16	0.11	89.82
125.0-130.0	1.15	899.31	0.11	89.93
130.0-135.0	1.19	900.50	0.12	90.05
135.0-140.0	1.20	901.69	0.12	90.17
140.0-145.0	1.18	902.87	0.12	90.29
145.0-150.0	1.11	903.98	0.11	90.40
150.0-155.0	1.03	905.01	0.10	90.50
155.0-160.0	0.91	905.92	0.09	90.59
160.0-165.0	0.75	906.67	0.08	90.67
165.0-170.0	0.57	907.23	0.06	90.72
170.0-175.0	0.35	907.59	0.04	90.76
175.0-180.0	0.12	907.71	0.01	90.77

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14



Maximum Light Intensity(cd): 422.71

Maximum Cand.@Angle: H=0.0°,V=0.0°

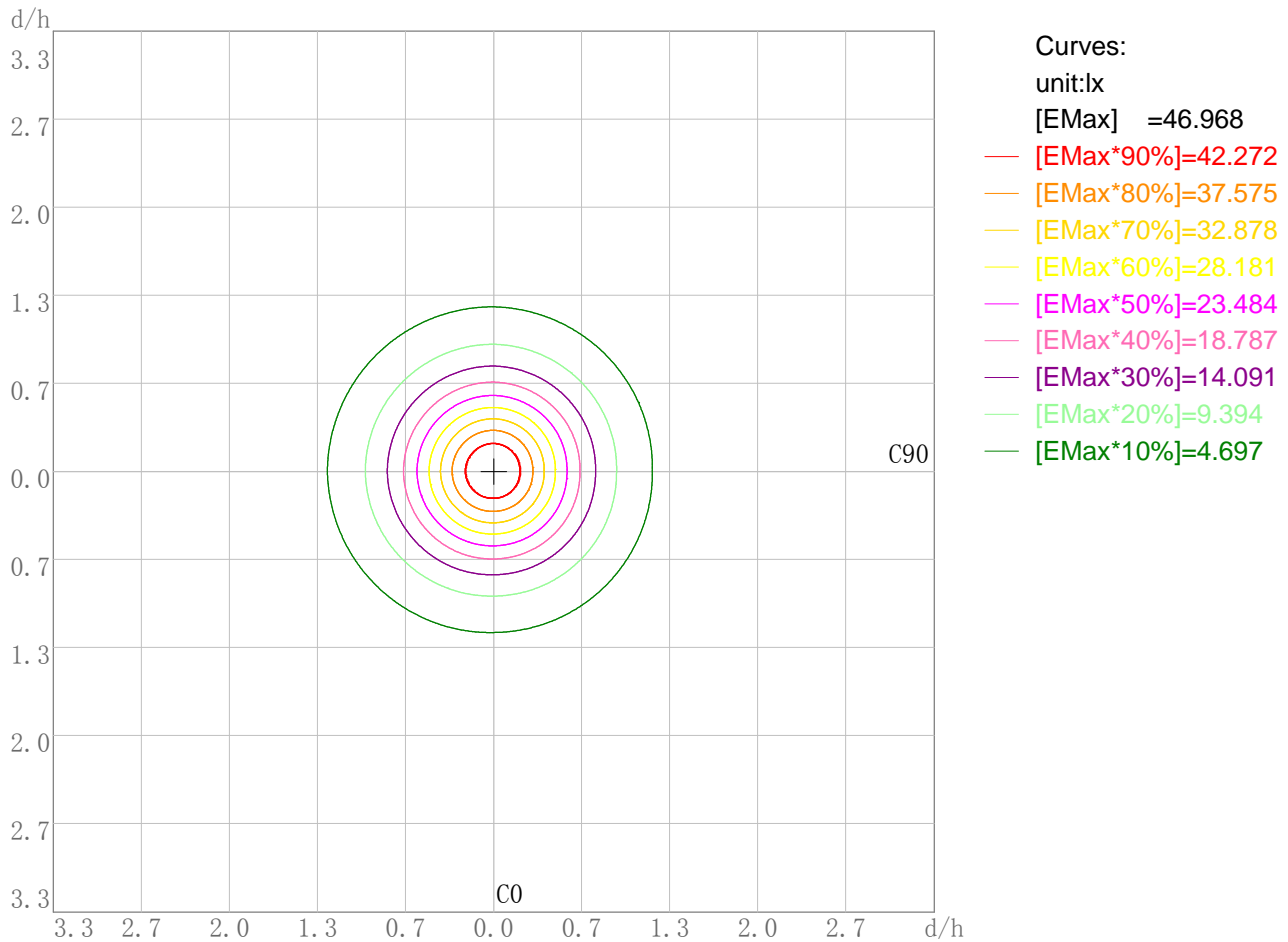
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Plane ISO-Illuminance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 46.97
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

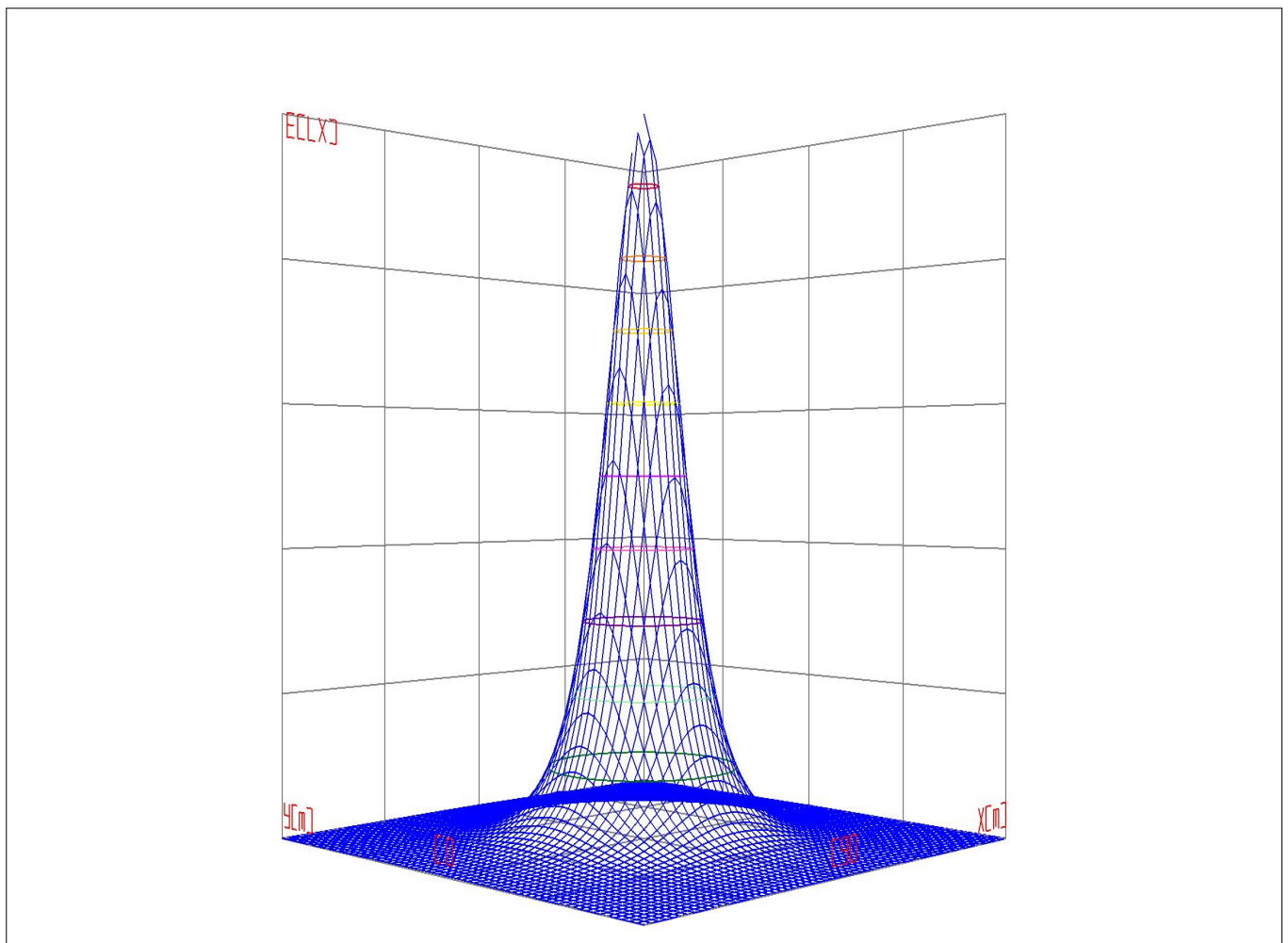
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3D Plane ISO Illuminance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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

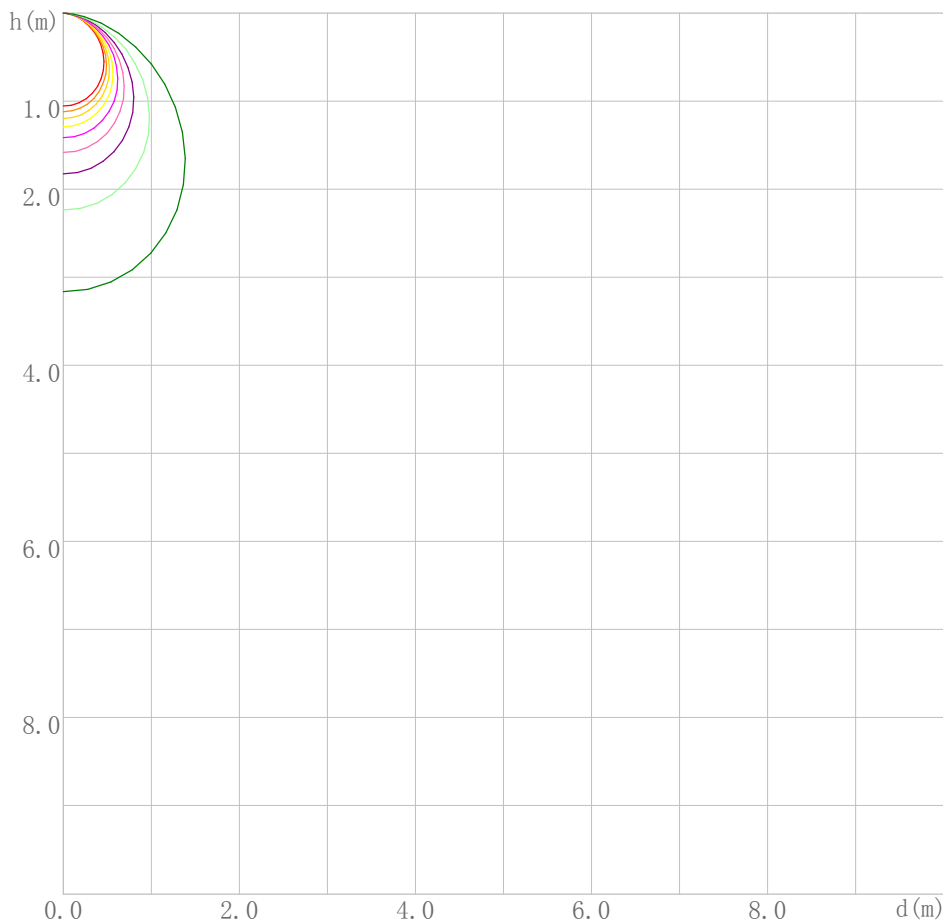
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Space ISO Illuminance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

Space ISO Illuminance Curve



- Curves:
unit:lx
[EMax] =422.715
- [EMax*90%]=380.443
 - [EMax*80%]=338.172
 - [EMax*70%]=295.900
 - [EMax*60%]=253.629
 - [EMax*50%]=211.357
 - [EMax*40%]=169.086
 - [EMax*30%]=126.814
 - [EMax*20%]=84.543
 - [EMax*10%]=42.271

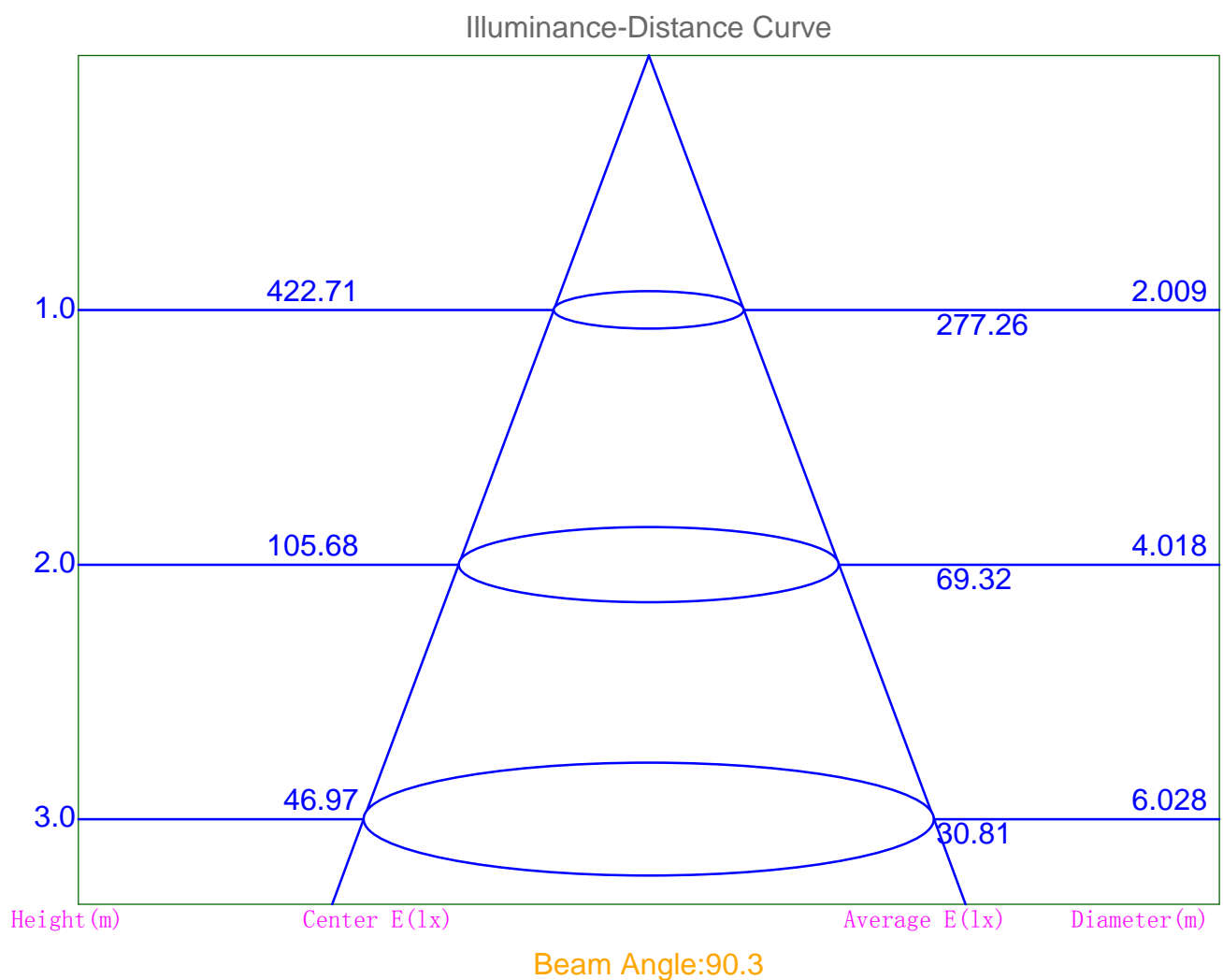
Space Plane Maximum Illuminance and @Angle:422.71,0.0deg
Plane Maximum Lighting Intensity and @Angle:422.715cd,0deg

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Illuminance-Distance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14



Indoor Luminance Limiting Curves

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

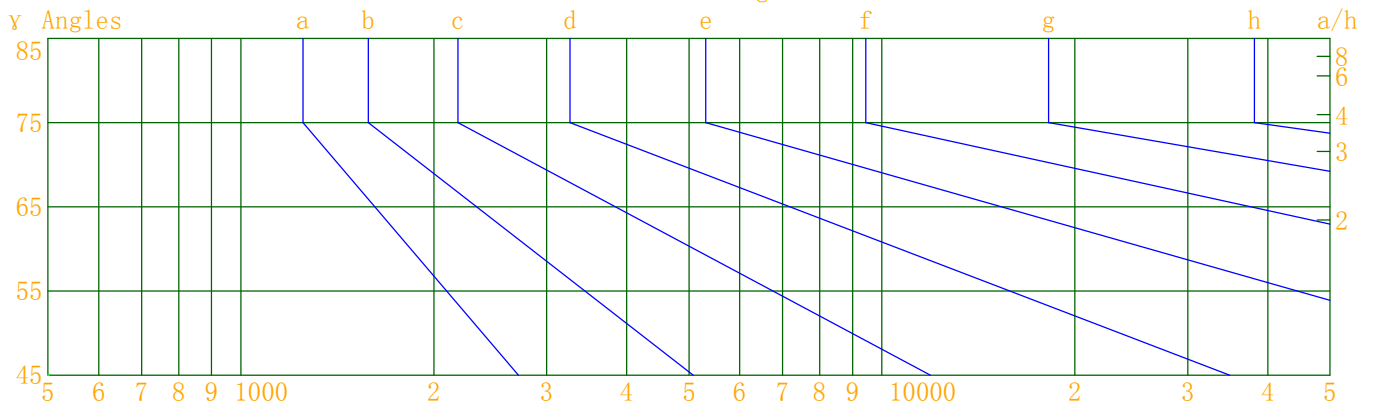
Glare Grade Table

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	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

Luminance Limiting Curve



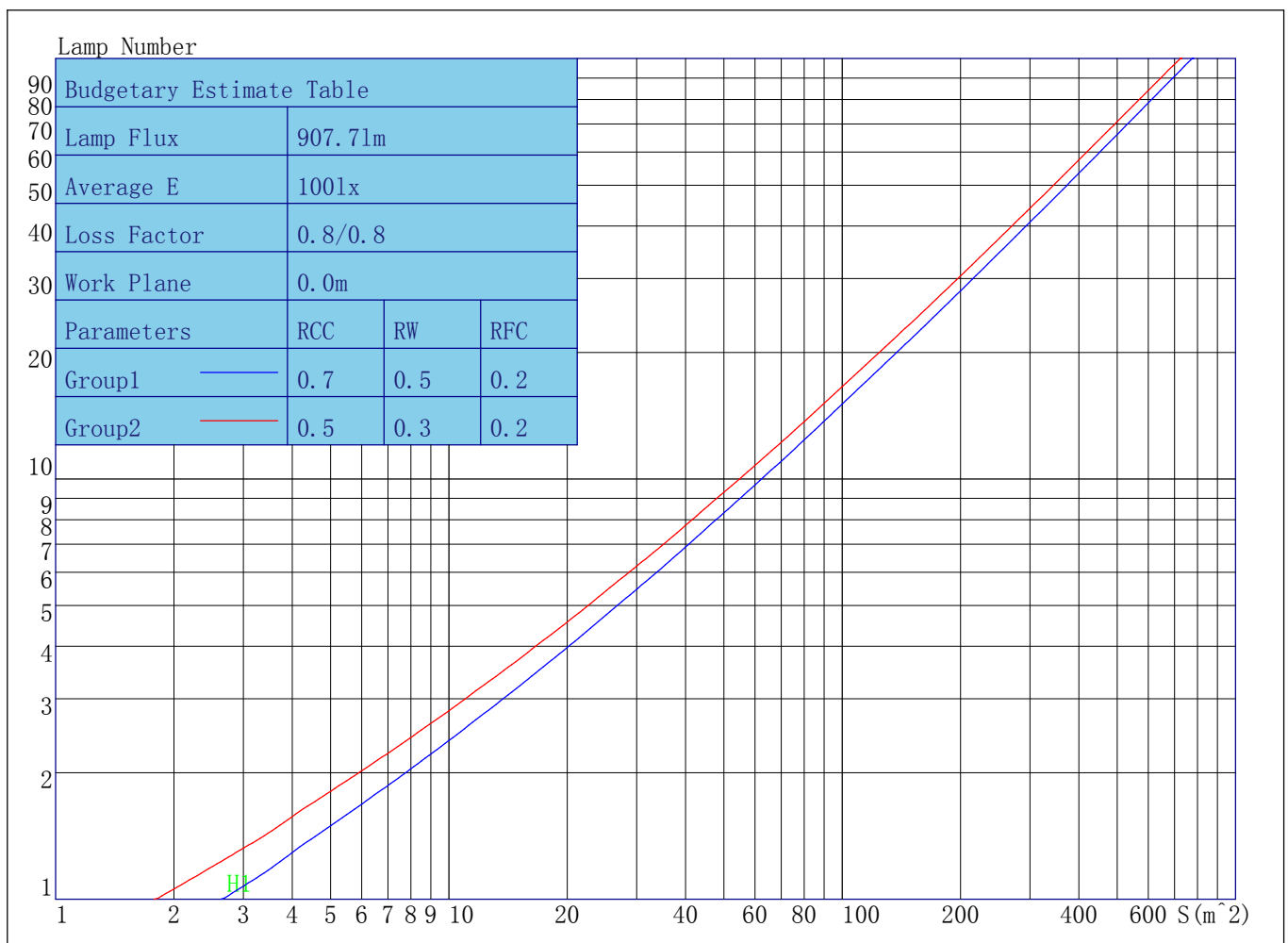
Luminous Size: Length(m)=108.000 Width(m)=108.000 Height(m)=42.000 Area(m^2)=16200.000000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14



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: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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	108	108	108	108	105	105	105	105	100	100	100	95	95	95	91	91	91	89
1	100	96	93	90	97	94	91	88	90	87	85	86	84	82	83	81	80	78
2	92	85	80	75	89	83	78	74	80	76	72	77	74	71	74	71	69	67
3	85	76	69	64	82	74	68	63	72	66	62	69	65	61	67	63	60	58
4	78	68	61	55	76	67	60	55	64	59	54	62	57	53	60	56	52	50
5	72	61	54	48	70	60	53	48	58	52	47	56	51	47	55	50	46	44
6	67	56	48	43	65	55	48	43	53	47	42	51	46	42	50	45	41	39
7	62	51	43	38	61	50	43	38	49	42	38	47	42	37	46	41	37	35
8	58	47	39	34	57	46	39	34	45	38	34	43	38	34	42	37	33	32
9	54	43	36	31	53	42	36	31	41	35	31	40	35	31	39	34	30	29
10	51	40	33	28	50	39	33	28	38	32	28	37	32	28	37	31	28	26

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Unified Glare Rating Table

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED Downlight	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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	-73.5	-70.3	-72.7	-69.6	-68.9	-74.3	-71.1	-73.5	-70.4	-69.7
Y=3H	-70.7	-67.5	-69.9	-66.8	-66.1	-72.1	-68.9	-71.2	-68.2	-67.5
Y=4H	-69.0	-66.3	-68.2	-65.6	-64.9	-70.7	-68.0	-69.9	-67.3	-66.6
Y=6H	-68.4	-65.8	-67.6	-65.1	-64.4	-70.4	-67.8	-69.6	-67.1	-66.4
Y=8H	-68.3	-65.7	-67.5	-65.0	-64.3	-70.4	-67.8	-69.6	-67.1	-66.4
Y=12H	-68.2	-65.7	-67.4	-64.9	-64.2	-70.5	-67.9	-69.6	-67.1	-66.5
X=4H Y=2H	-72.7	-70.0	-71.8	-69.2	-68.6	-73.3	-70.6	-72.4	-69.8	-69.1
Y=3H	-69.7	-67.1	-68.9	-66.3	-65.6	-70.9	-68.2	-70.0	-67.4	-66.8
Y=4H	-69.6	-68.2	-68.6	-67.2	-66.3	-71.1	-69.7	-70.0	-68.7	-67.8
Y=6H	-68.8	-67.5	-67.8	-66.6	-65.7	-70.6	-69.3	-69.6	-68.4	-67.5
Y=8H	-68.6	-67.3	-67.5	-66.4	-65.5	-70.6	-69.3	-69.5	-68.3	-67.4
Y=12H	-69.3	-68.3	-68.2	-67.2	-66.2	-71.5	-70.4	-70.3	-69.3	-68.3
X=8H Y=4H	-69.6	-68.3	-68.5	-67.3	-66.5	-71.0	-69.7	-69.9	-68.7	-67.9
Y=6H	-69.6	-68.7	-68.4	-67.6	-66.6	-71.3	-70.4	-70.1	-69.3	-68.3
Y=8H	-69.8	-69.1	-68.5	-67.9	-66.9	-71.6	-71.0	-70.4	-69.8	-68.8
Y=12H	-69.5	-68.9	-68.3	-67.7	-66.7	-71.6	-70.9	-70.4	-69.8	-68.7
X=12H Y=4H	-70.5	-69.5	-69.4	-68.4	-67.4	-71.9	-70.9	-70.7	-69.8	-68.8
Y=6H	-70.1	-69.4	-68.9	-68.2	-67.2	-71.8	-71.1	-70.6	-69.9	-68.9
Y=8H	-69.8	-69.1	-68.6	-68.0	-66.9	-71.7	-71.0	-70.4	-69.8	-68.8
Variations with the objver position at spacings										
S=1.0H	3.3/-1.3					3.5/-0.9				
S=1.5H	-1.3/-22.3					-0.5/-20.9				
S=2.0H	-1.3/-22.3					-0.5/-20.9				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	422.71	422.71	422.71	422.71
Y 5.0	420.82	417.49	418.78	420.90
Y 10.0	412.56	406.53	408.57	413.34
Y 15.0	398.36	389.70	392.43	399.82
Y 20.0	378.53	367.41	370.95	380.67
Y 25.0	353.66	340.40	344.70	356.51
Y 30.0	324.76	309.40	314.56	328.24
Y 35.0	292.02	274.29	280.80	296.28
Y 40.0	255.78	236.82	243.74	260.54
Y 45.0	218.45	199.03	206.10	223.40
Y 50.0	181.55	162.29	169.44	186.65
Y 55.0	146.08	127.41	134.48	151.29
Y 60.0	112.85	95.08	101.91	118.05
Y 65.0	82.40	65.88	72.31	87.38
Y 70.0	55.28	40.44	46.12	59.77
Y 75.0	31.93	19.85	24.35	35.77
Y 80.0	13.97	6.56	9.18	16.09
Y 85.0	6.02	1.71	3.17	6.56
Y 90.0	1.68	0.17	0.41	2.18
Y 95.0	1.64	0.38	0.55	1.67
Y 100.0	1.66	0.67	0.79	1.67
Y 105.0	1.76	0.90	1.08	1.79
Y 110.0	2.00	1.25	1.36	1.92
Y 115.0	2.16	1.54	1.73	2.16
Y 120.0	2.46	1.90	2.03	2.37
Y 125.0	2.71	2.22	2.36	2.63
Y 130.0	2.97	2.52	2.74	2.92
Y 135.0	3.30	2.88	3.03	3.15
Y 140.0	3.52	3.15	3.38	3.47
Y 145.0	3.83	3.50	3.67	3.66
Y 150.0	4.05	3.71	3.93	3.94
Y 155.0	4.32	4.05	4.26	4.17
Y 160.0	4.59	4.27	4.49	4.39
Y 165.0	4.77	4.52	4.75	4.66
Y 170.0	5.00	4.70	4.97	4.86
Y 175.0	5.13	4.84	5.11	5.02
Y 180.0	5.13	5.13	5.13	5.13
