

# IES Indoor Report

Photometric Filename: B36W-CC-3K-20119-10-17.IES

## Indoor Luminaire Photometric Data

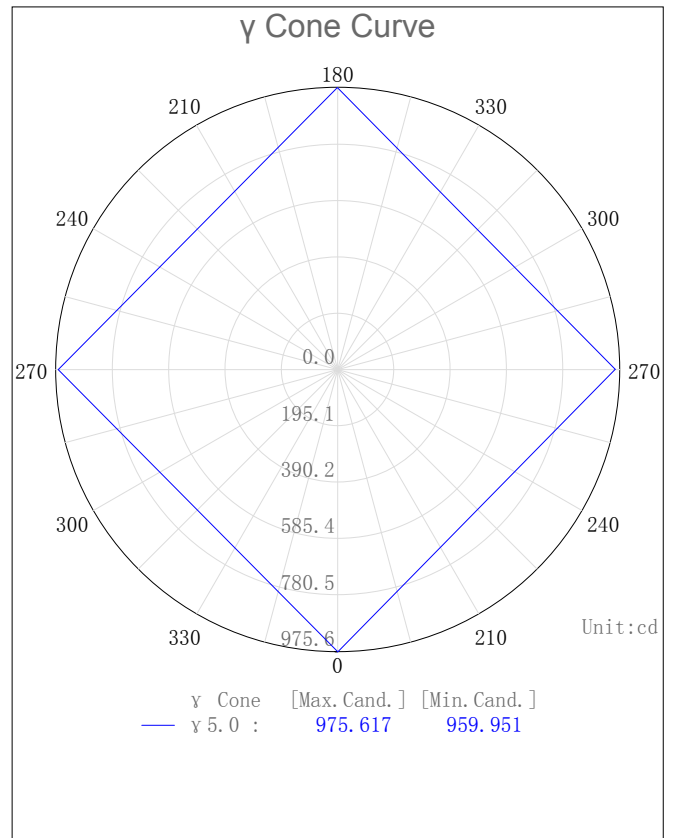
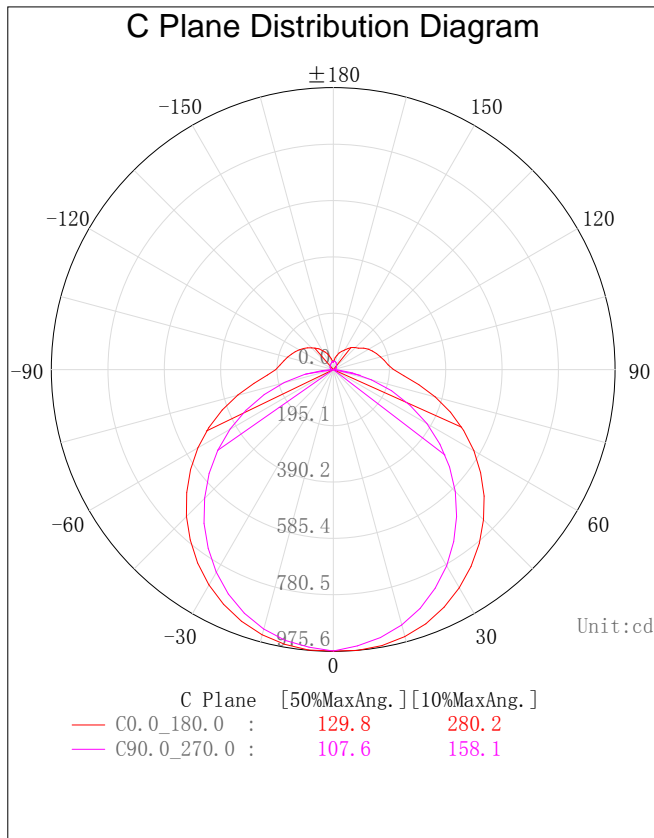
### Description Information

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Date: 2019/10/17
Manufacture:	ShldAngle(°):	Test Machine: GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H): 0.060m*1.200m*0.065m	Lum. Area(m2): 0.150	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): 3523.560	Luminaire Flux: 3523.557lm	Field Angle(10%Imax): 280.2	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 3067.663lm 87.06%	
Rated Voltage(V):	Luminaire EER(lm/W): 94.288	Up Lumens&Percent: 455.894lm 12.94%	
Tested Power(W): 37.370	Max. Cand.(cd): 975.617	S/MH: C0_a180=1.321 C90_270=1.220	
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=5.0	CIE Type: General Diffuse	
Tested Electric: U=239.8V, I=0.162A, PF=0.000	Beam Angle(50%Imax): 129.8	ErP Φuse(120°): 2238.632lm	
Lamp Size(W*L*H): 0.060m*1.200m*0.065m	Left=-64.0 Right=65.8	IRF: 105.788%	

### Lighting Distribution Diagram



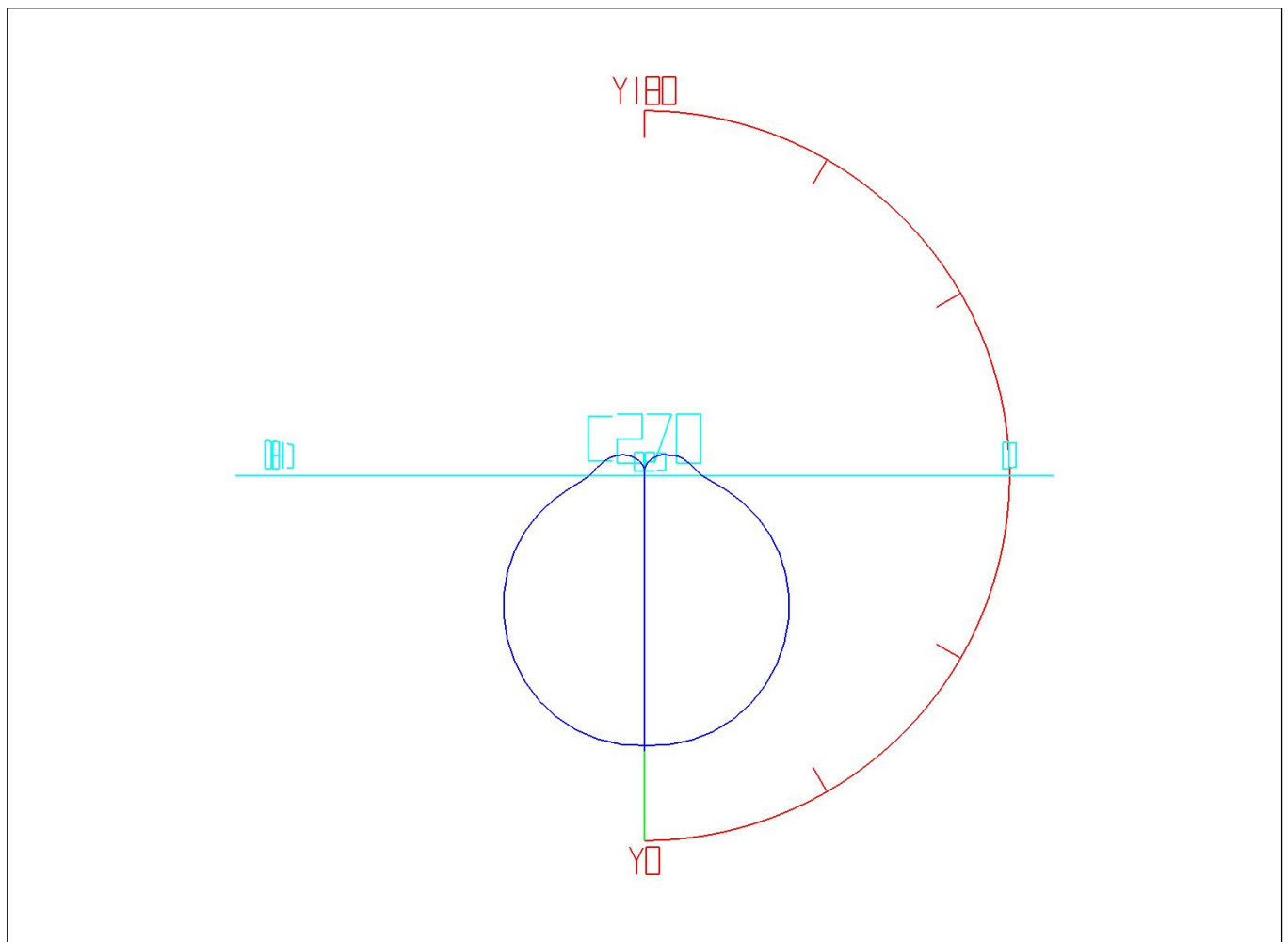
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## 3D Light Intensity Distribution Modal

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

### 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	23.22	23.22	0.66	0.66
5.0-10.0	68.90	92.12	1.96	2.61
10.0-15.0	112.42	204.54	3.19	5.80
15.0-20.0	152.28	356.82	4.32	10.13
20.0-25.0	187.13	543.95	5.31	15.44
25.0-30.0	215.85	759.80	6.13	21.56
30.0-35.0	237.68	997.48	6.75	28.31
35.0-40.0	252.10	1249.58	7.15	35.46
40.0-45.0	258.88	1508.46	7.35	42.81
45.0-50.0	257.99	1766.44	7.32	50.13
50.0-55.0	249.60	2016.04	7.08	57.22
55.0-60.0	234.07	2250.11	6.64	63.86
60.0-65.0	211.96	2462.07	6.02	69.87
65.0-70.0	184.14	2646.21	5.23	75.10
70.0-75.0	152.00	2798.21	4.31	79.41
75.0-80.0	118.02	2916.23	3.35	82.76
80.0-85.0	86.60	3002.83	2.46	85.22
85.0-90.0	64.83	3067.66	1.84	87.06
90.0-95.0	55.21	3122.87	1.57	88.63
95.0-100.0	51.16	3174.03	1.45	90.08
100.0-105.0	47.72	3221.75	1.35	91.43
105.0-110.0	44.43	3266.17	1.26	92.70
110.0-115.0	41.06	3307.23	1.17	93.86
115.0-120.0	37.50	3344.74	1.06	94.92
120.0-125.0	33.69	3378.43	0.96	95.88
125.0-130.0	29.51	3407.93	0.84	96.72
130.0-135.0	25.59	3433.52	0.73	97.44
135.0-140.0	22.05	3455.57	0.63	98.07
140.0-145.0	18.45	3474.03	0.52	98.59
145.0-150.0	14.95	3488.98	0.42	99.02
150.0-155.0	11.84	3500.82	0.34	99.35
155.0-160.0	9.08	3509.91	0.26	99.61
160.0-165.0	6.51	3516.42	0.18	99.80
165.0-170.0	4.23	3520.64	0.12	99.92
170.0-175.0	2.26	3522.91	0.06	99.98
175.0-180.0	0.65	3523.56	0.02	100.00

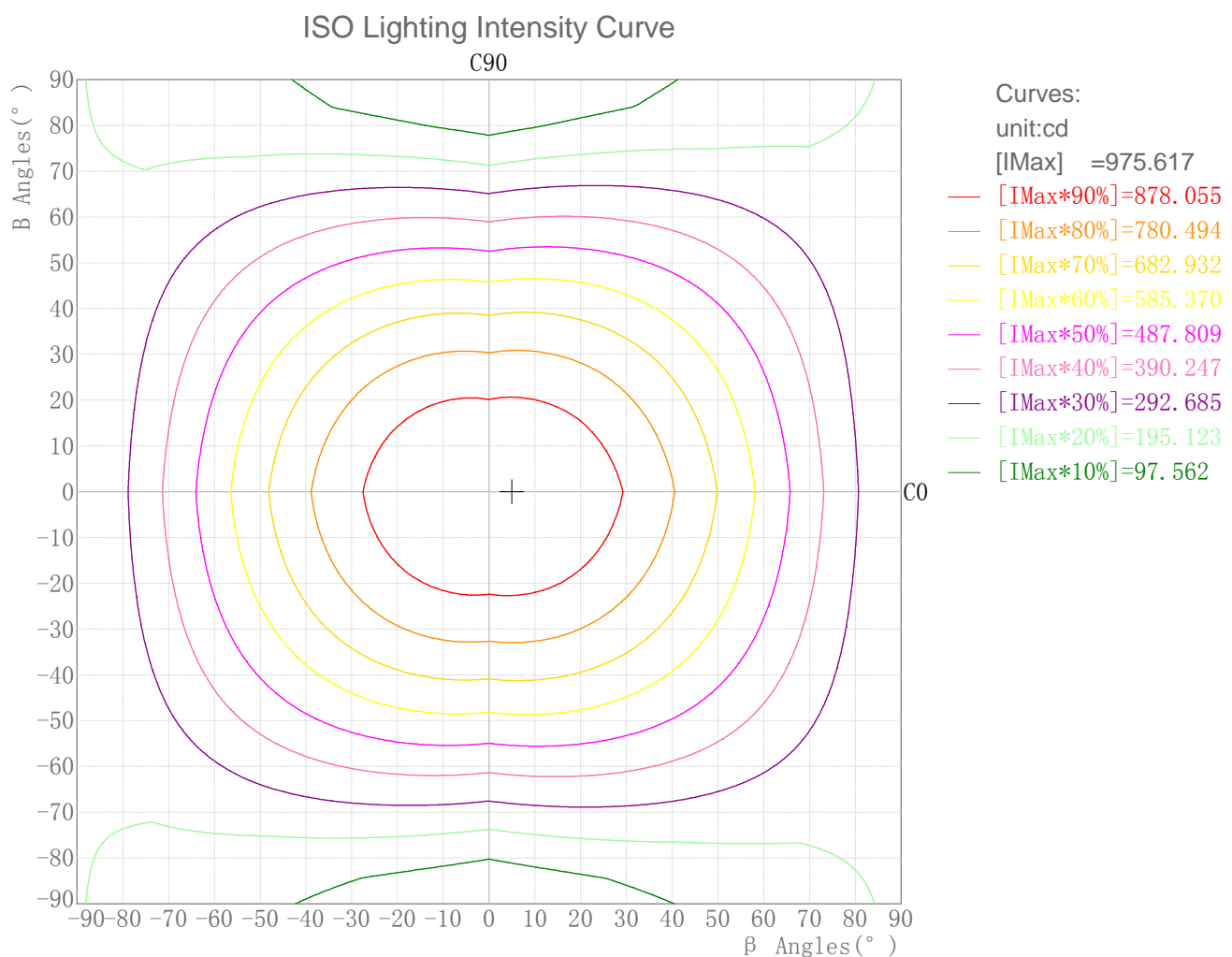
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## Rectangle ISO Lighting Intensity Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17



Maximum Light Intensity(cd): 975.62

Maximum Cand.@Angle: H=5.0°,V=0.0°

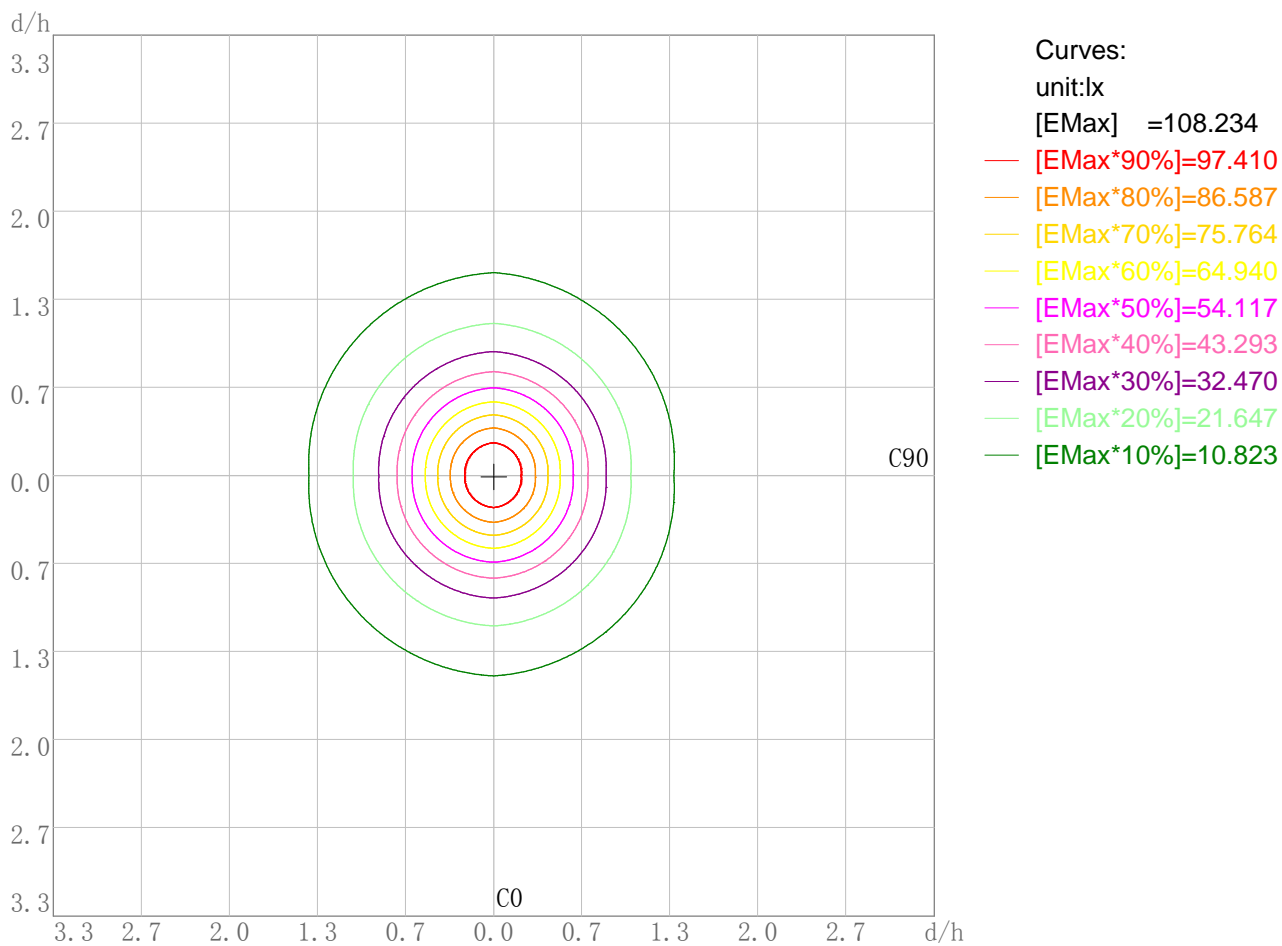
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## Plane ISO-Illuminance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

### Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
 Working Plane Maximum Illuminance(lx): 108.23  
 Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

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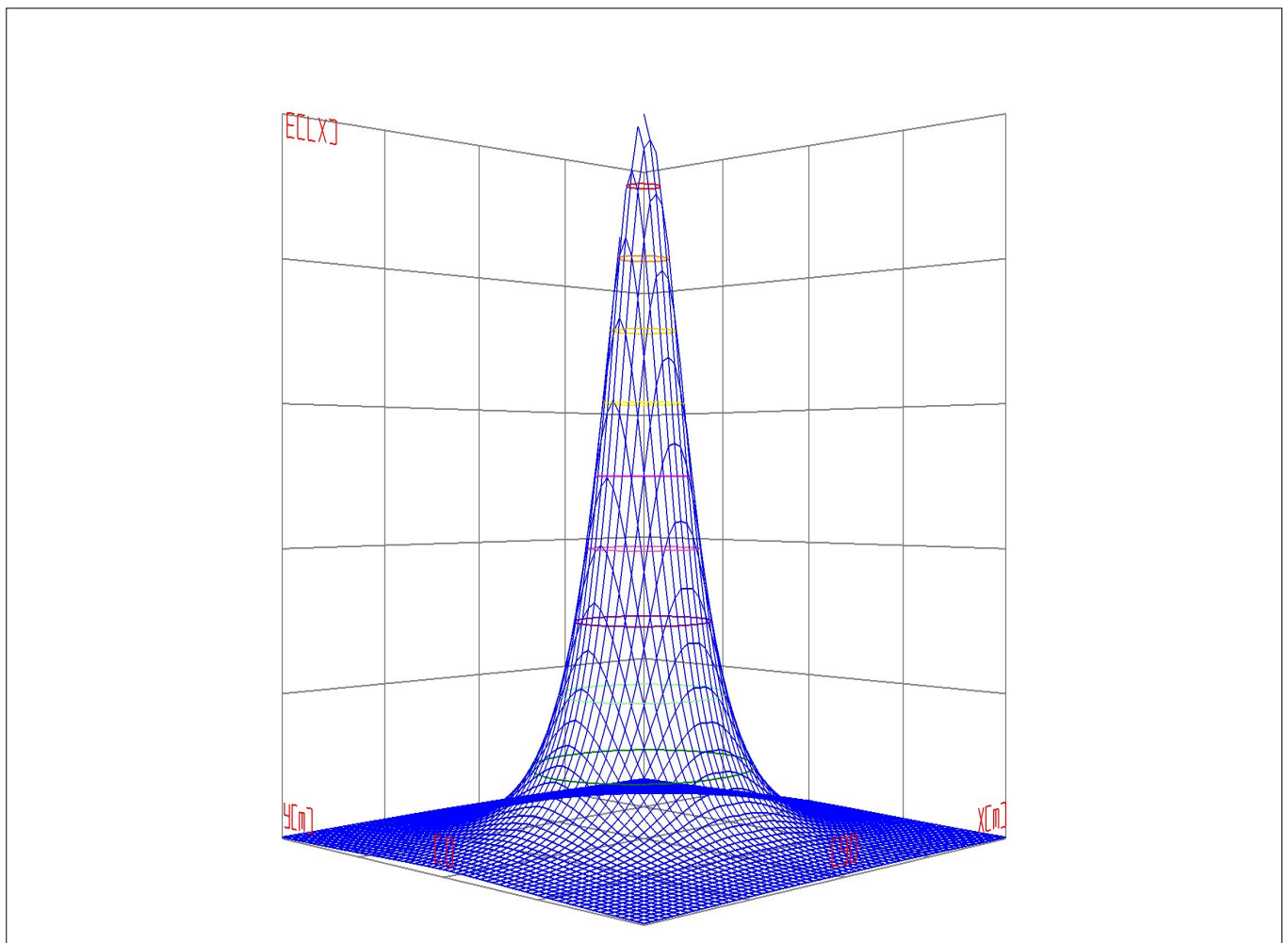
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## 3D Plane ISO Illuminance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

### 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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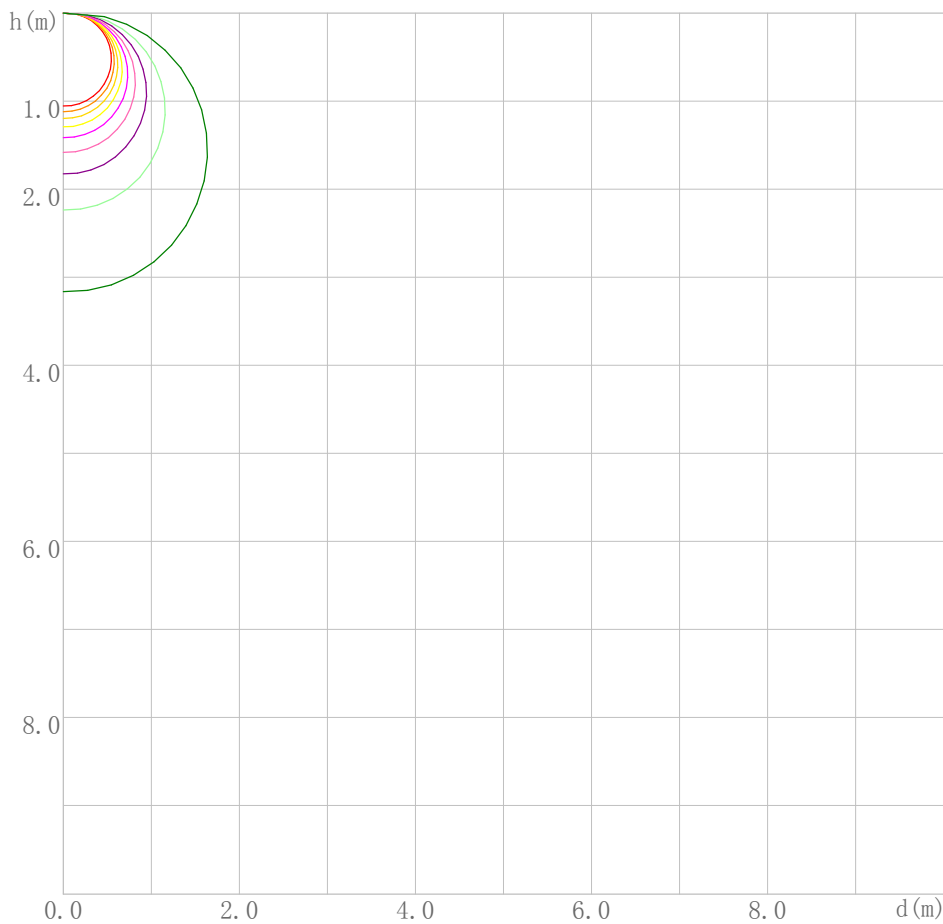
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## Space ISO Illuminance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

### Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle: 974.06, 0.0deg  
Plane Maximum Lighting Intensity and @Angle: 975.617cd, 0deg

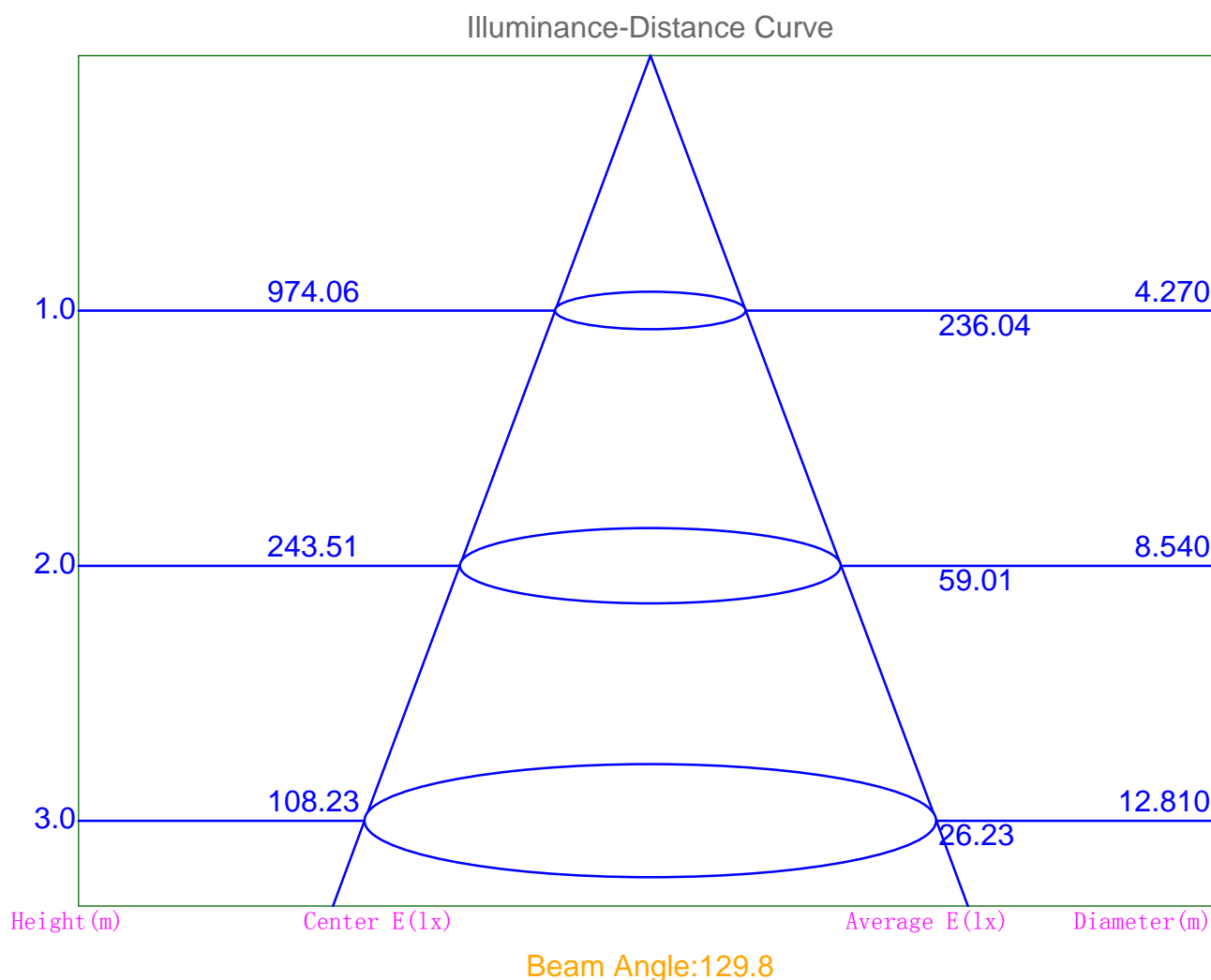
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## Illuminance-Distance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17





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## Indoor Luminance Limiting Curves

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

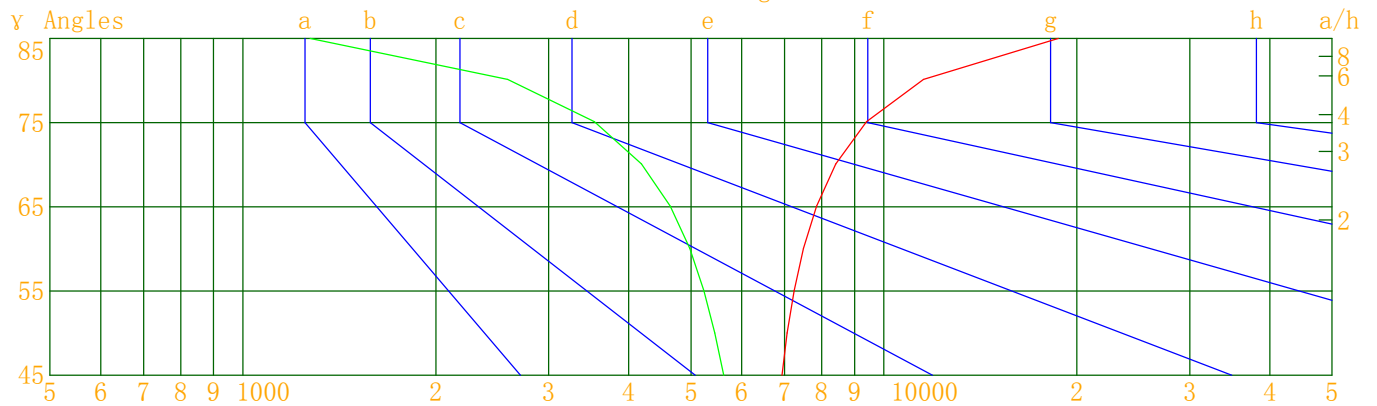
Glare Grade Table

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	6934	7064	7243	7492	7855	8415	9395	11535	18712
C90	5627	5449	5239	4980	4644	4185	3535	2589	1273

Luminance Limiting Curve



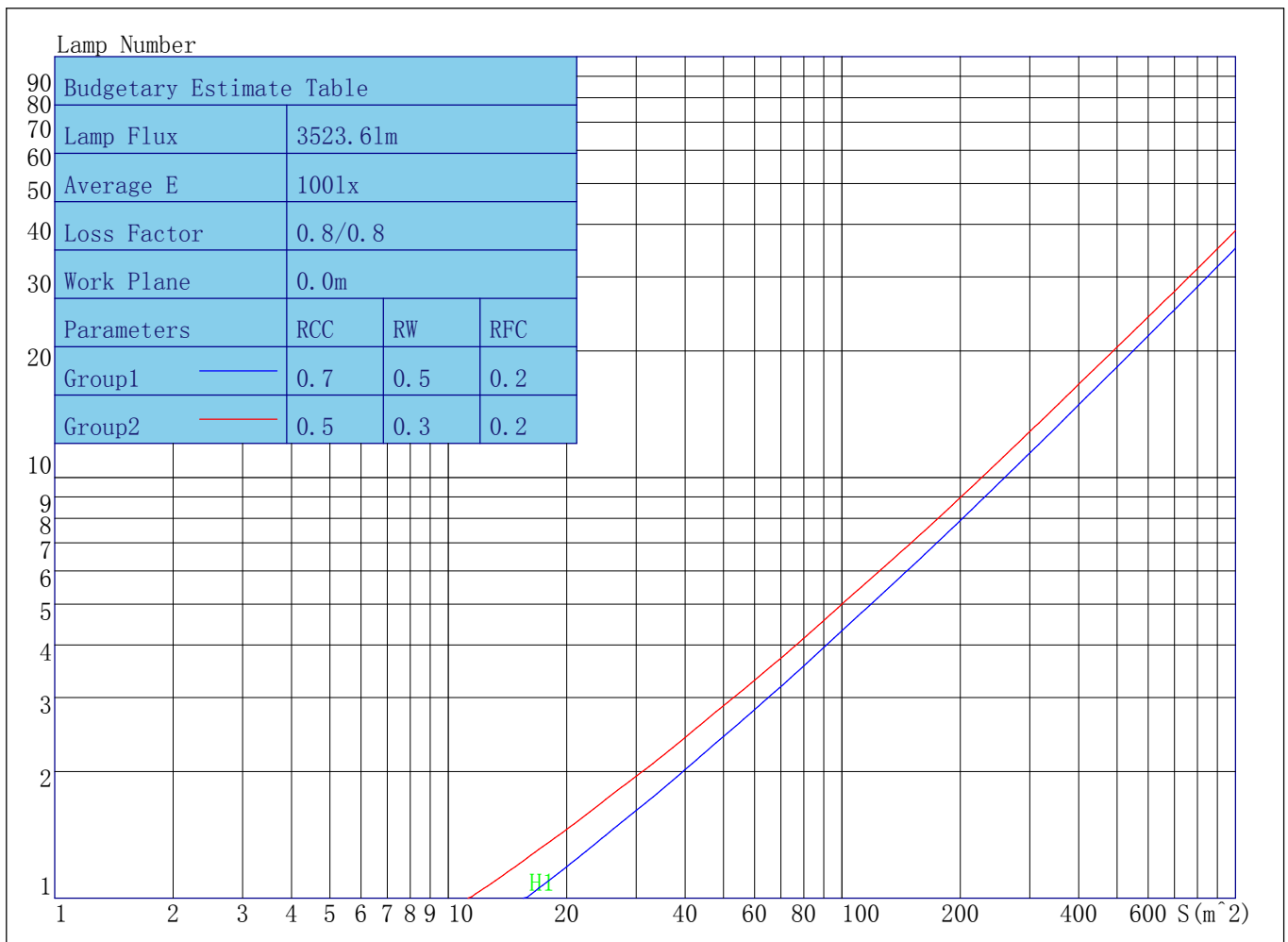
Luminous Size: Length(m)=1.200 Width(m)=0.060 Height(m)=0.065 Area(m^2)=0.150000  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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## Indoor Budgetary Estimate Table

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17



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: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	104	99	94	90	100	96	91	87	89	86	82	83	80	78	77	75	73	70
2	94	86	78	72	91	83	76	71	77	72	67	72	67	63	67	63	60	57
3	86	75	66	60	82	72	65	58	67	61	56	63	58	53	59	54	50	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	52	47	43	40
5	72	59	50	43	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	42	37	33	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	35	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	28	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	30	25	21	19

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## Unified Glare Rating Table

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

## 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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	18.1	21.4	19.4	22.7	24.1	16.2	19.4	17.4	20.7	22.1
Y=3H	24.3	27.5	25.6	28.9	30.2	20.3	23.6	21.6	24.9	26.3
Y=4H	28.1	31.0	29.5	32.4	33.8	22.6	25.5	24.0	26.9	28.2
Y=6H	31.7	34.5	33.0	35.8	37.2	23.9	26.7	25.2	28.0	29.4
Y=8H	33.6	36.4	35.0	37.7	39.1	24.2	27.0	25.6	28.3	29.7
Y=12H	35.7	38.5	37.1	39.8	41.2	24.4	27.1	25.7	28.5	29.9
X=4H Y=2H	19.3	22.2	20.7	23.6	24.9	18.6	21.4	19.9	22.8	24.2
Y=3H	25.7	28.6	27.1	29.9	31.3	23.1	25.9	24.4	27.3	28.7
Y=4H	28.1	29.9	29.7	31.5	33.1	24.0	25.8	25.6	27.4	29.0
Y=6H	32.3	33.9	33.9	35.5	37.2	25.9	27.5	27.5	29.2	30.8
Y=8H	34.6	36.2	36.3	37.8	39.4	26.6	28.2	28.2	29.8	31.4
Y=12H	36.3	37.7	38.1	39.4	41.1	26.1	27.4	27.9	29.2	30.9
X=8H Y=4H	28.4	30.0	30.1	31.6	33.3	25.1	26.7	26.8	28.4	30.0
Y=6H	32.0	33.2	33.8	34.9	36.7	26.8	27.9	28.6	29.7	31.4
Y=8H	34.2	35.1	36.1	36.9	38.7	27.4	28.3	29.3	30.2	32.0
Y=12H	37.3	38.2	39.2	40.0	41.8	28.4	29.2	30.2	31.1	32.9
X=12H Y=4H	27.5	28.9	29.3	30.6	32.3	24.6	25.9	26.3	27.6	29.4
Y=6H	31.6	32.6	33.5	34.4	36.2	26.8	27.7	28.6	29.5	31.4
Y=8H	34.3	35.1	36.2	37.0	38.8	28.1	29.0	30.0	30.8	32.6
Variations with the observer position at spacings										
S=1.0H	2.0/-2.2					2.2/-0.2				
S=1.5H	-2.2/-20.6					-0.2/-16.4				
S=2.0H	-2.2/-20.6					-0.2/-16.4				

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## Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	974.06	974.06	974.06	974.06
Y 5.0	975.62	959.95	973.97	964.70
Y 10.0	969.56	942.29	965.68	951.81
Y 15.0	956.58	915.33	950.31	929.13
Y 20.0	935.89	879.35	927.23	897.26
Y 25.0	907.66	835.48	896.84	856.95
Y 30.0	872.56	784.29	859.84	809.06
Y 35.0	831.72	726.95	817.04	754.60
Y 40.0	785.75	664.22	769.45	694.30
Y 45.0	735.45	596.79	717.53	629.16
Y 50.0	681.06	525.40	661.80	559.81
Y 55.0	623.14	450.76	602.84	486.86
Y 60.0	561.93	373.48	540.46	411.11
Y 65.0	497.97	294.38	475.25	333.04
Y 70.0	431.70	214.71	408.18	253.67
Y 75.0	364.73	137.24	340.92	174.92
Y 80.0	300.45	67.45	278.10	100.56
Y 85.0	244.63	16.65	228.20	38.78
Y 90.0	208.06	4.18	199.23	7.38
Y 95.0	190.40	5.57	184.53	7.13
Y 100.0	178.80	6.59	172.68	7.39
Y 105.0	168.90	7.94	163.01	8.03
Y 110.0	159.32	9.92	153.70	9.06
Y 115.0	149.70	11.41	144.54	10.96
Y 120.0	139.96	13.19	135.16	12.16
Y 125.0	128.83	14.58	125.66	13.43
Y 130.0	114.14	15.87	115.82	14.45
Y 135.0	107.82	17.15	106.16	15.19
Y 140.0	99.06	18.24	96.51	16.19
Y 145.0	88.91	19.43	86.79	17.27
Y 150.0	77.86	21.99	75.48	18.49
Y 155.0	68.88	24.49	66.72	20.41
Y 160.0	60.12	26.35	57.31	22.18
Y 165.0	50.31	27.88	47.65	24.12
Y 170.0	41.79	28.65	38.49	26.30
Y 175.0	30.50	29.31	29.87	28.08
Y 180.0	24.91	24.91	24.91	24.91

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