

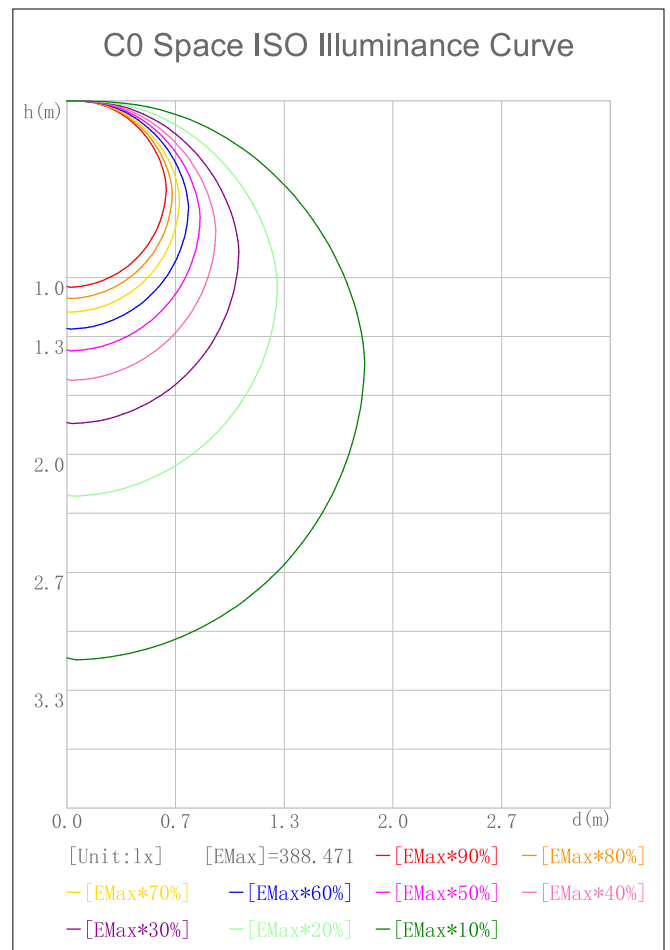
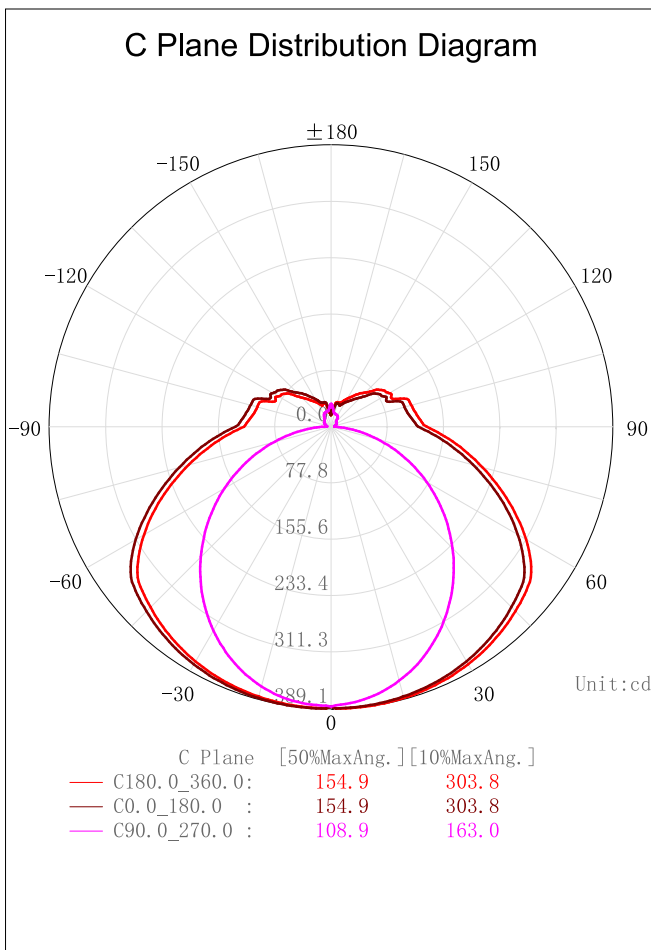
Indoor Luminaire Photometric Data

Description Information

Luminary Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TL		Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Date: 2022/04/28	
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000	
Test Lab:	Frequency(Hz):	Lamp CCT(K):	Ra:
Lum. Size(W*L*H):0.041m*0.570m*0.027m		Lum. Area(m2):0.039	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ =1.0	Temp. (°C):	Humidity(%): 60.0

Character Parameter

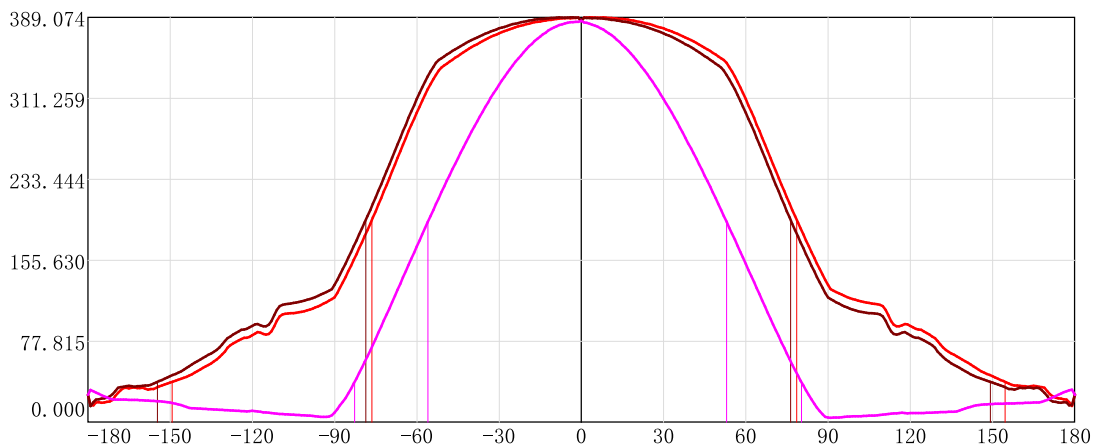
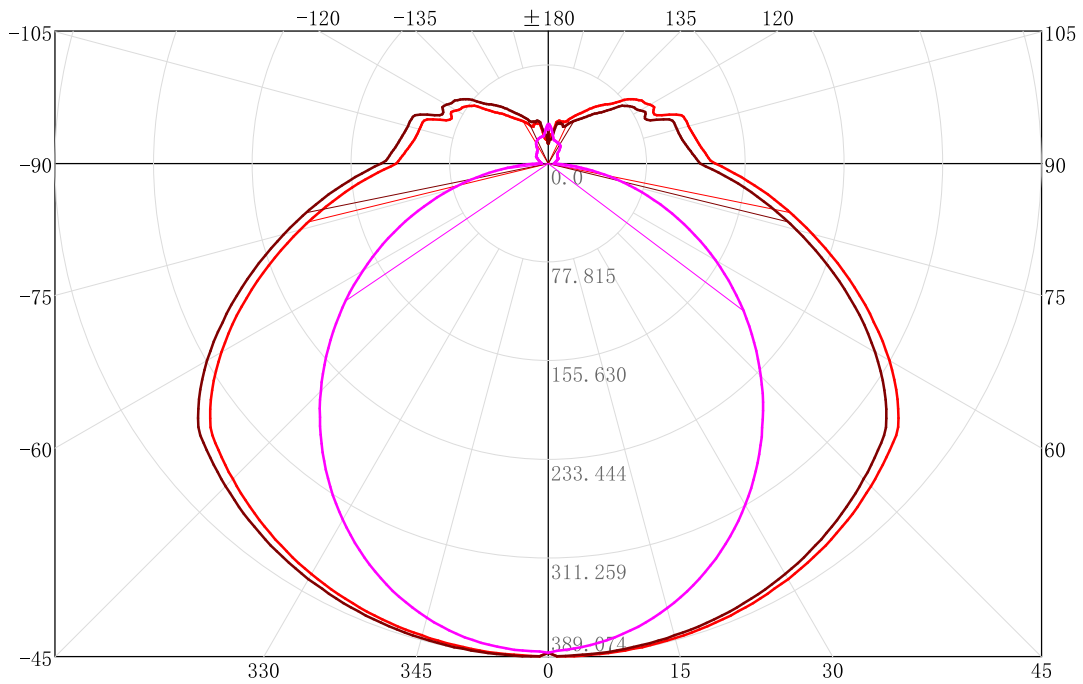
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1783.740	Luminary Flux(lm): 1783.739	Field Angle(10%Imax): 303.8(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1469.971lm 82.41%	
Rated Voltage(V):	Luminary EER(lm/W): 113.614	Up Lumens&Percent: 313.768lm 17.59%	
Tested Power(W): 15.700	Max. Candela(cd): 389.074	S/MH: C0_a180=1.470 C90_270=1.225	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ =3.0	CIE Type: General Diffuse	
Tested Electrics(V, A, pf):119.8, 0.133, 0.990		Beam Angle(50%Imax): 154.9(°)	ErP ϕ use(120°): 976.342lm
Lamp Size(W*L*H):0.041m*0.570m*0.027m		Left=-76.4°, Right=78.6°	IRF(%): 97.827



2D Plane Light Intensity Distribution Curve

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/04/28

C Plane Distribution Diagram

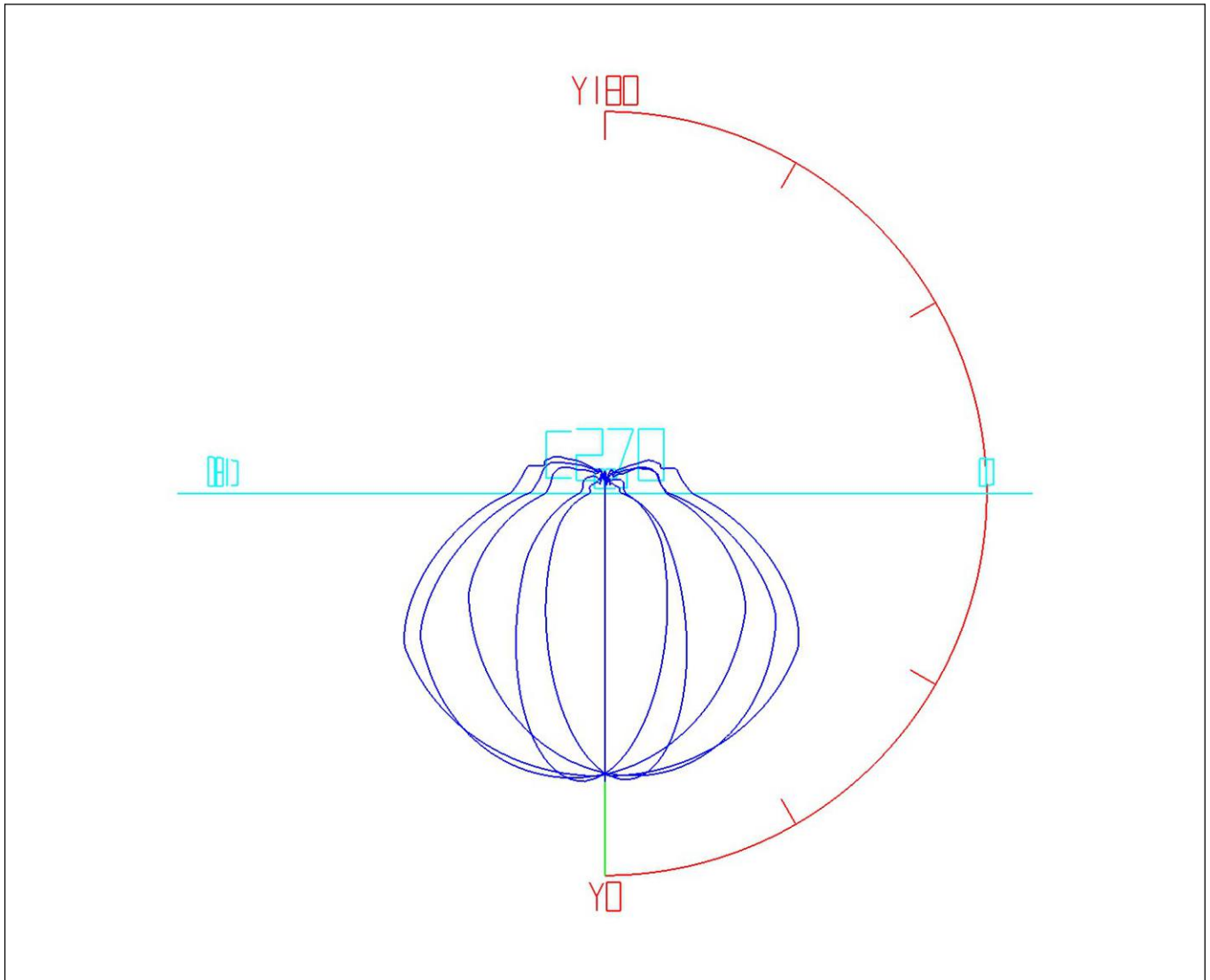


	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C180.0_360.0 :	154.9	303.8	
—	C0.0_180.0 :	154.9	303.8	
—	C90.0_270.0 :	108.9	163.0	

3D Light Intensity Distribution Modal

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/04/28

3D Light Intensity Distribution Modal



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

Zonal Flux Tabulation

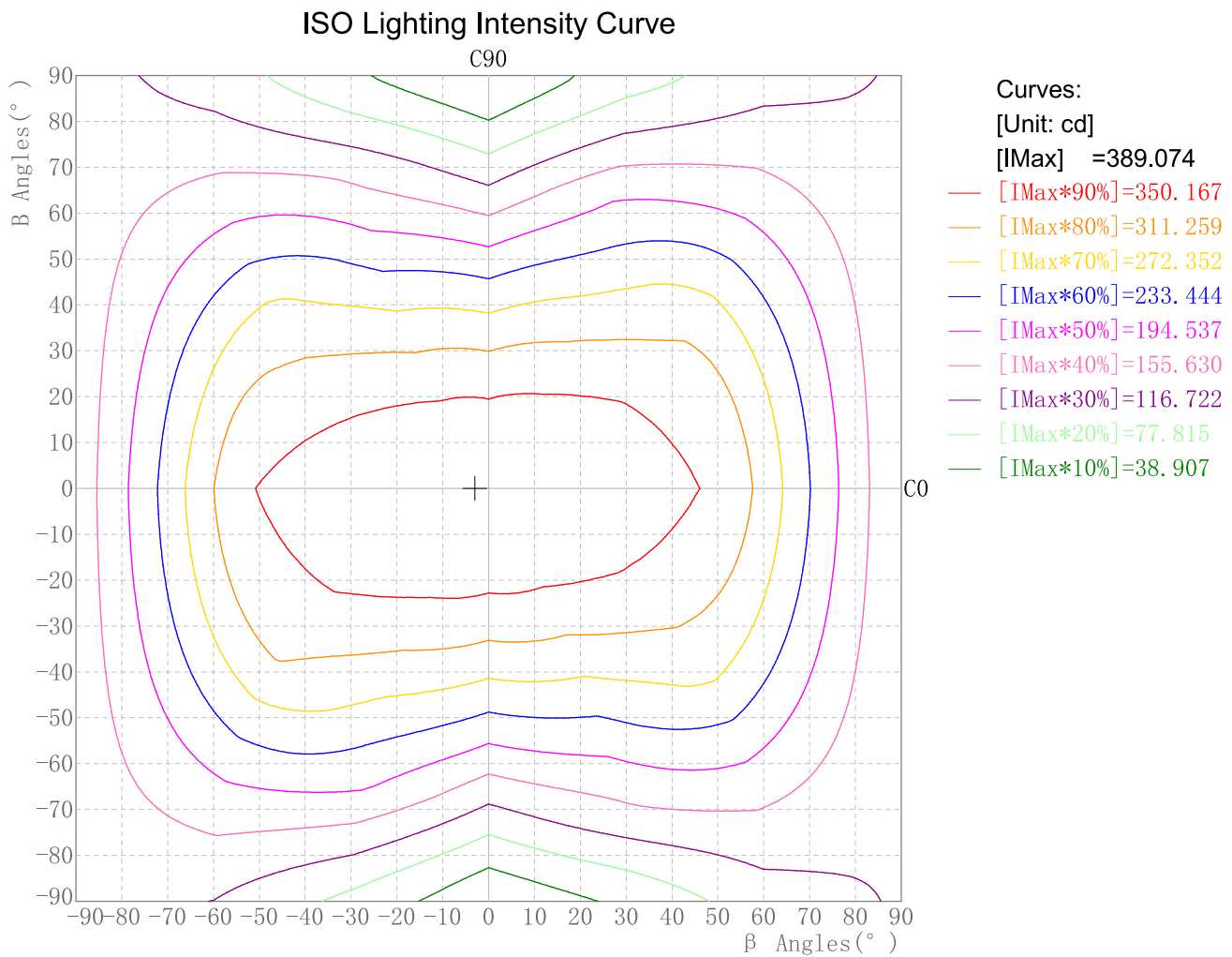
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.37	0.37	0.02	0.02	47.0-48.0	23.65	23.65	1.33	1.33
1.0-2.0	1.11	1.48	0.06	0.08	48.0-49.0	23.73	47.38	1.33	2.66
2.0-3.0	1.84	3.32	0.10	0.19	49.0-50.0	23.81	71.19	1.33	3.99
3.0-4.0	2.58	5.89	0.14	0.33	50.0-51.0	23.86	95.05	1.34	5.33
4.0-5.0	3.31	9.20	0.19	0.52	51.0-52.0	23.90	118.95	1.34	6.67
5.0-6.0	4.04	13.24	0.23	0.74	52.0-53.0	23.90	142.85	1.34	8.01
6.0-7.0	4.76	18.00	0.27	1.01	53.0-54.0	23.88	166.73	1.34	9.35
7.0-8.0	5.48	23.48	0.31	1.32	54.0-55.0	23.82	190.55	1.34	10.68
8.0-9.0	6.20	29.68	0.35	1.66	55.0-56.0	23.74	214.29	1.33	12.01
9.0-10.0	6.90	36.58	0.39	2.05	56.0-57.0	23.62	237.91	1.32	13.34
10.0-11.0	7.60	44.19	0.43	2.48	57.0-58.0	23.46	261.37	1.32	14.65
11.0-12.0	8.30	52.48	0.47	2.94	58.0-59.0	23.27	284.64	1.30	15.96
12.0-13.0	8.98	61.46	0.50	3.45	59.0-60.0	23.04	307.67	1.29	17.25
13.0-14.0	9.66	71.12	0.54	3.99	60.0-61.0	22.77	330.45	1.28	18.53
14.0-15.0	10.32	81.44	0.58	4.57	61.0-62.0	22.49	352.94	1.26	19.79
15.0-16.0	10.98	92.42	0.62	5.18	62.0-63.0	22.19	375.13	1.24	21.03
16.0-17.0	11.62	104.05	0.65	5.83	63.0-64.0	21.86	396.99	1.23	22.26
17.0-18.0	12.26	116.30	0.69	6.52	64.0-65.0	21.50	418.49	1.21	23.46
18.0-19.0	12.88	129.18	0.72	7.24	65.0-66.0	21.14	439.63	1.19	24.65
19.0-20.0	13.48	142.67	0.76	8.00	66.0-67.0	20.74	460.37	1.16	25.81
20.0-21.0	14.08	156.74	0.79	8.79	67.0-68.0	20.32	480.69	1.14	26.95
21.0-22.0	14.66	171.40	0.82	9.61	68.0-69.0	19.88	500.57	1.11	28.06
22.0-23.0	15.22	186.63	0.85	10.46	69.0-70.0	19.41	519.98	1.09	29.15
23.0-24.0	15.77	202.40	0.88	11.35	70.0-71.0	18.93	538.91	1.06	30.21
24.0-25.0	16.31	218.71	0.91	12.26	71.0-72.0	18.43	557.33	1.03	31.25
25.0-26.0	16.83	235.54	0.94	13.20	72.0-73.0	17.91	575.24	1.00	32.25
26.0-27.0	17.33	252.87	0.97	14.18	73.0-74.0	17.37	592.61	0.97	33.22
27.0-28.0	17.82	270.68	1.00	15.18	74.0-75.0	16.81	609.42	0.94	34.17
28.0-29.0	18.28	288.97	1.03	16.20	75.0-76.0	16.24	625.66	0.91	35.08
29.0-30.0	18.74	307.70	1.05	17.25	76.0-77.0	15.67	641.33	0.88	35.95
30.0-31.0	19.17	326.87	1.07	18.33	77.0-78.0	15.09	656.42	0.85	36.80
31.0-32.0	19.59	346.46	1.10	19.42	78.0-79.0	14.51	670.93	0.81	37.61
32.0-33.0	19.98	366.44	1.12	20.54	79.0-80.0	13.92	684.85	0.78	38.39
33.0-34.0	20.36	386.81	1.14	21.69	80.0-81.0	13.33	698.18	0.75	39.14
34.0-35.0	20.72	407.52	1.16	22.85	81.0-82.0	12.74	710.92	0.71	39.86
35.0-36.0	21.06	428.58	1.18	24.03	82.0-83.0	12.16	723.08	0.68	40.54
36.0-37.0	21.38	449.97	1.20	25.23	83.0-84.0	11.58	734.67	0.65	41.19
37.0-38.0	21.68	471.65	1.22	26.44	84.0-85.0	11.01	745.68	0.62	41.80
38.0-39.0	21.97	493.62	1.23	27.67	85.0-86.0	10.46	756.14	0.59	42.39
39.0-40.0	22.23	515.85	1.25	28.92	86.0-87.0	9.91	766.05	0.56	42.95
40.0-41.0	22.47	538.32	1.26	30.18	87.0-88.0	9.39	775.44	0.53	43.47
41.0-42.0	22.70	561.02	1.27	31.45	88.0-89.0	8.88	784.32	0.50	43.97
42.0-43.0	22.91	583.93	1.28	32.74	89.0-90.0	8.43	792.74	0.47	44.44
43.0-44.0	23.09	607.02	1.29	34.03	90.0-91.0	8.09	800.83	0.45	44.90
44.0-45.0	23.26	630.28	1.30	35.33	91.0-92.0	7.90	808.73	0.44	45.34
45.0-46.0	23.41	653.69	1.31	36.65	92.0-93.0	7.78	816.51	0.44	45.78
46.0-47.0	23.54	677.23	1.32	37.97	93.0-94.0	7.68	824.18	0.43	46.21

Zonal Flux Tabulation - (Cont.)

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	7.58	7.58	0.43	0.43	141.0-142.0	2.13	2.13	0.12	0.12
95.0-96.0	7.50	15.09	0.42	0.85	142.0-143.0	2.06	4.19	0.12	0.23
96.0-97.0	7.43	22.52	0.42	1.26	143.0-144.0	1.99	6.18	0.11	0.35
97.0-98.0	7.38	29.90	0.41	1.68	144.0-145.0	1.93	8.10	0.11	0.45
98.0-99.0	7.33	37.22	0.41	2.09	145.0-146.0	1.87	9.97	0.10	0.56
99.0-100.0	7.28	44.50	0.41	2.49	146.0-147.0	1.81	11.77	0.10	0.66
100.0-101.0	7.23	51.73	0.41	2.90	147.0-148.0	1.74	13.52	0.10	0.76
101.0-102.0	7.18	58.91	0.40	3.30	148.0-149.0	1.68	15.19	0.09	0.85
102.0-103.0	7.13	66.04	0.40	3.70	149.0-150.0	1.61	16.80	0.09	0.94
103.0-104.0	7.08	73.12	0.40	4.10	150.0-151.0	1.54	18.34	0.09	1.03
104.0-105.0	7.02	80.13	0.39	4.49	151.0-152.0	1.47	19.81	0.08	1.11
105.0-106.0	6.96	87.09	0.39	4.88	152.0-153.0	1.41	21.21	0.08	1.19
106.0-107.0	6.89	93.98	0.39	5.27	153.0-154.0	1.35	22.56	0.08	1.26
107.0-108.0	6.82	100.80	0.38	5.65	154.0-155.0	1.29	23.85	0.07	1.34
108.0-109.0	6.73	107.53	0.38	6.03	155.0-156.0	1.24	25.09	0.07	1.41
109.0-110.0	6.61	114.14	0.37	6.40	156.0-157.0	1.18	26.27	0.07	1.47
110.0-111.0	6.46	120.60	0.36	6.76	157.0-158.0	1.12	27.39	0.06	1.54
111.0-112.0	6.27	126.87	0.35	7.11	158.0-159.0	1.06	28.45	0.06	1.59
112.0-113.0	6.09	132.96	0.34	7.45	159.0-160.0	1.01	29.46	0.06	1.65
113.0-114.0	5.93	138.88	0.33	7.79	160.0-161.0	0.96	30.42	0.05	1.71
114.0-115.0	5.79	144.67	0.32	8.11	161.0-162.0	0.90	31.32	0.05	1.76
115.0-116.0	5.65	150.32	0.32	8.43	162.0-163.0	0.85	32.16	0.05	1.80
116.0-117.0	5.52	155.84	0.31	8.74	163.0-164.0	0.79	32.95	0.04	1.85
117.0-118.0	5.39	161.23	0.30	9.04	164.0-165.0	0.73	33.68	0.04	1.89
118.0-119.0	5.25	166.48	0.29	9.33	165.0-166.0	0.67	34.36	0.04	1.93
119.0-120.0	5.09	171.57	0.29	9.62	166.0-167.0	0.62	34.98	0.03	1.96
120.0-121.0	4.93	176.50	0.28	9.89	167.0-168.0	0.56	35.53	0.03	1.99
121.0-122.0	4.78	181.28	0.27	10.16	168.0-169.0	0.50	36.03	0.03	2.02
122.0-123.0	4.63	185.91	0.26	10.42	169.0-170.0	0.43	36.47	0.02	2.04
123.0-124.0	4.49	190.40	0.25	10.67	170.0-171.0	0.37	36.84	0.02	2.07
124.0-125.0	4.33	194.73	0.24	10.92	171.0-172.0	0.33	37.17	0.02	2.08
125.0-126.0	4.16	198.89	0.23	11.15	172.0-173.0	0.30	37.46	0.02	2.10
126.0-127.0	4.00	202.89	0.22	11.37	173.0-174.0	0.27	37.73	0.01	2.12
127.0-128.0	3.83	206.72	0.21	11.59	174.0-175.0	0.23	37.96	0.01	2.13
128.0-129.0	3.66	210.38	0.21	11.79	175.0-176.0	0.20	38.16	0.01	2.14
129.0-130.0	3.49	213.87	0.20	11.99	176.0-177.0	0.17	38.33	0.01	2.15
130.0-131.0	3.32	217.20	0.19	12.18	177.0-178.0	0.13	38.46	0.01	2.16
131.0-132.0	3.17	220.36	0.18	12.35	178.0-179.0	0.08	38.54	0.00	2.16
132.0-133.0	3.03	223.39	0.17	12.52	179.0-180.0	0.03	38.57	0.00	2.16
133.0-134.0	2.91	226.30	0.16	12.69					
134.0-135.0	2.80	229.09	0.16	12.84					
135.0-136.0	2.69	231.79	0.15	12.99					
136.0-137.0	2.59	234.37	0.15	13.14					
137.0-138.0	2.49	236.86	0.14	13.28					
138.0-139.0	2.39	239.25	0.13	13.41					
139.0-140.0	2.30	241.55	0.13	13.54					
140.0-141.0	2.21	243.76	0.12	13.67					

Rectangle ISO Lighting Intensity Diagram

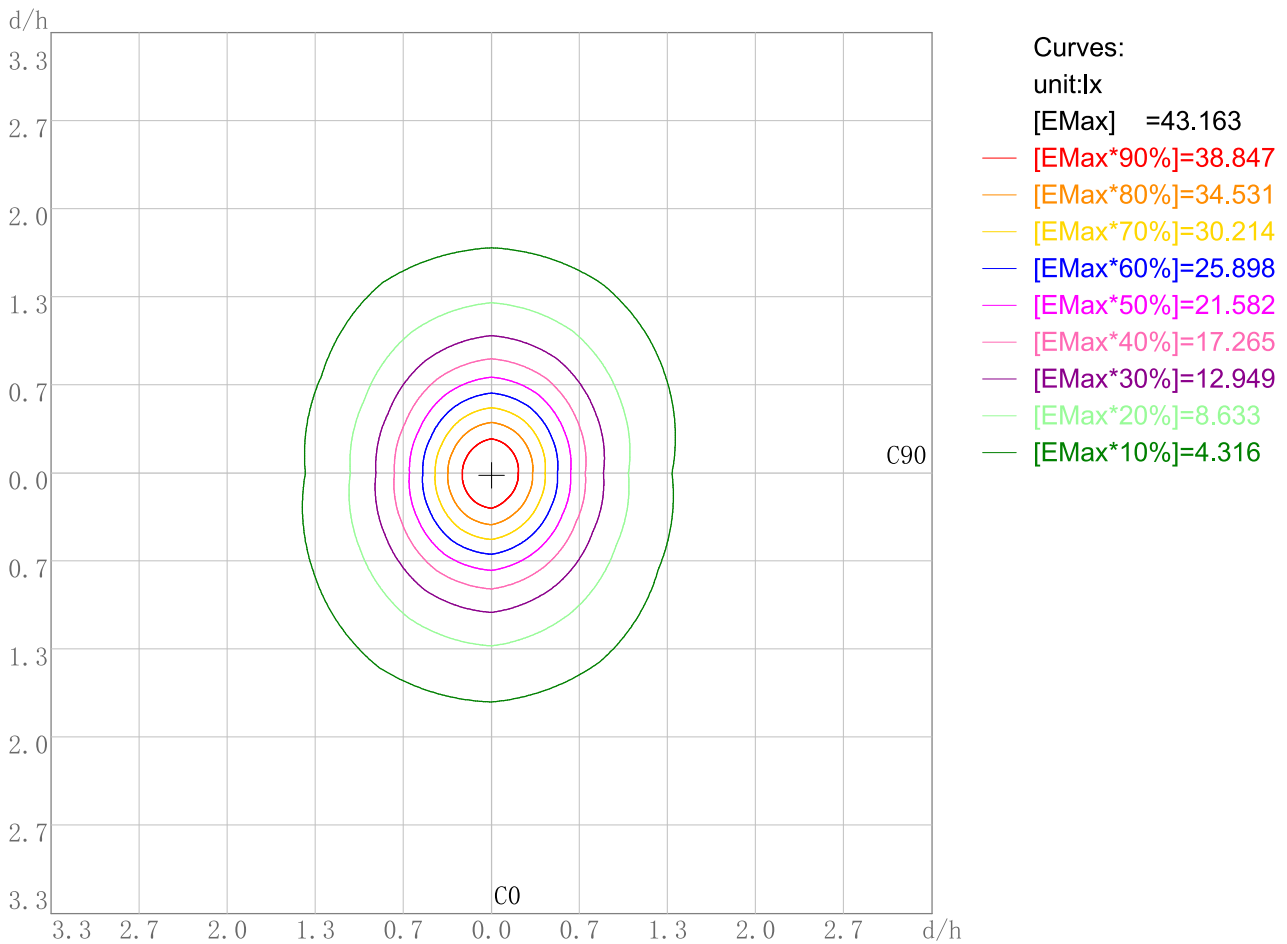
Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/04/28



Plane ISO-Illuminance Diagram

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/04/28

Plane ISO-Illuminance Curve

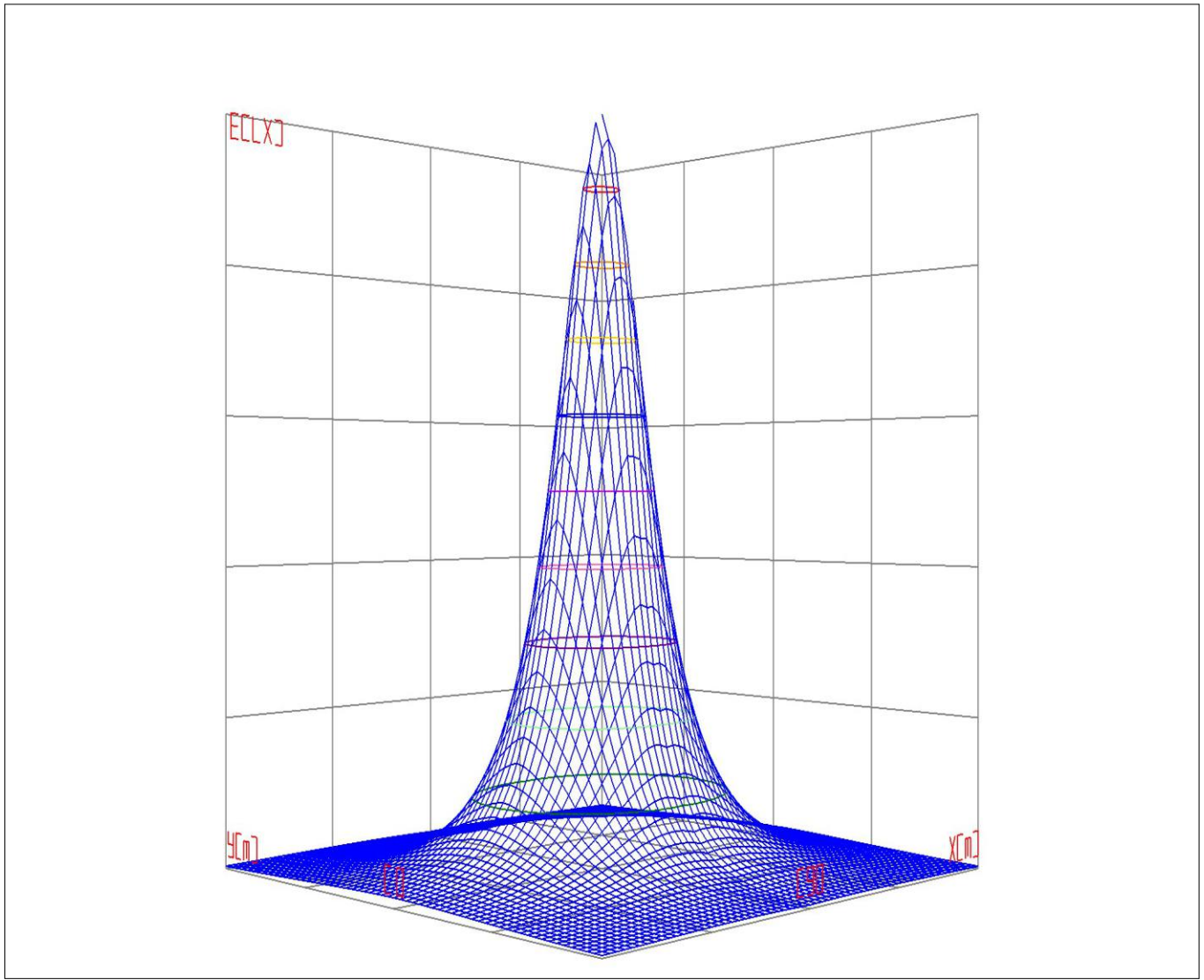


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 43.16
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2022/04/28

3D Plane Illuminance Modal

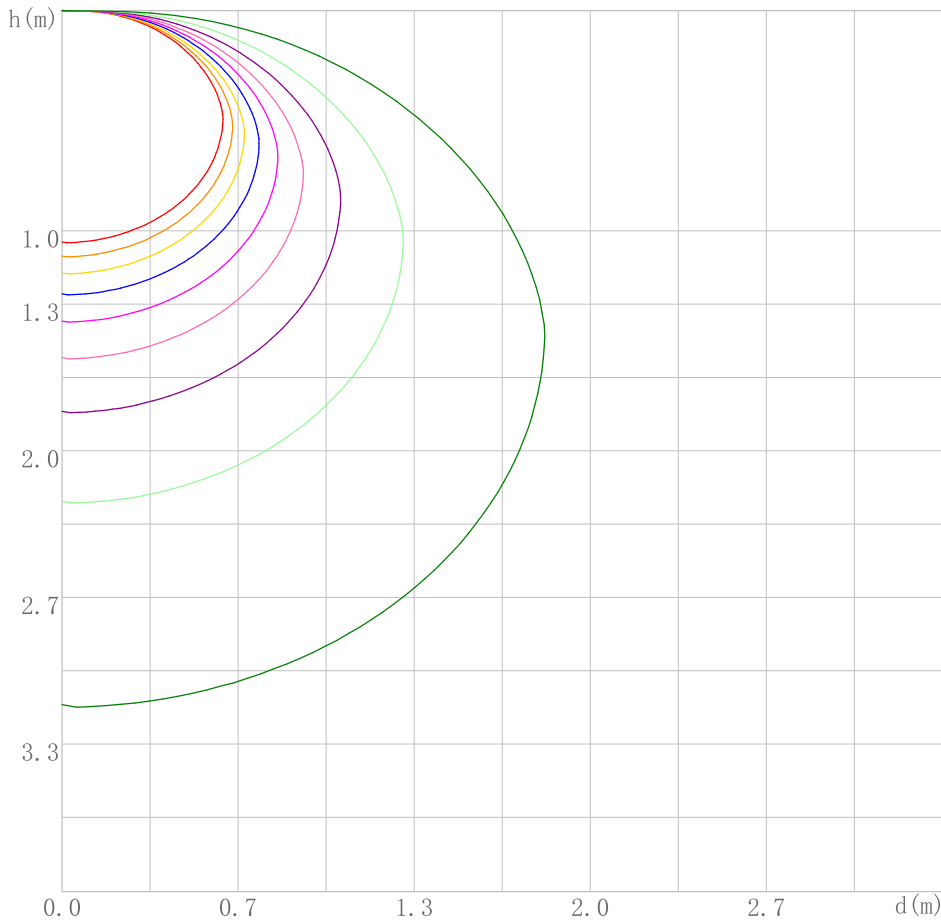


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2022/04/28

Space ISO Illuminance Curve



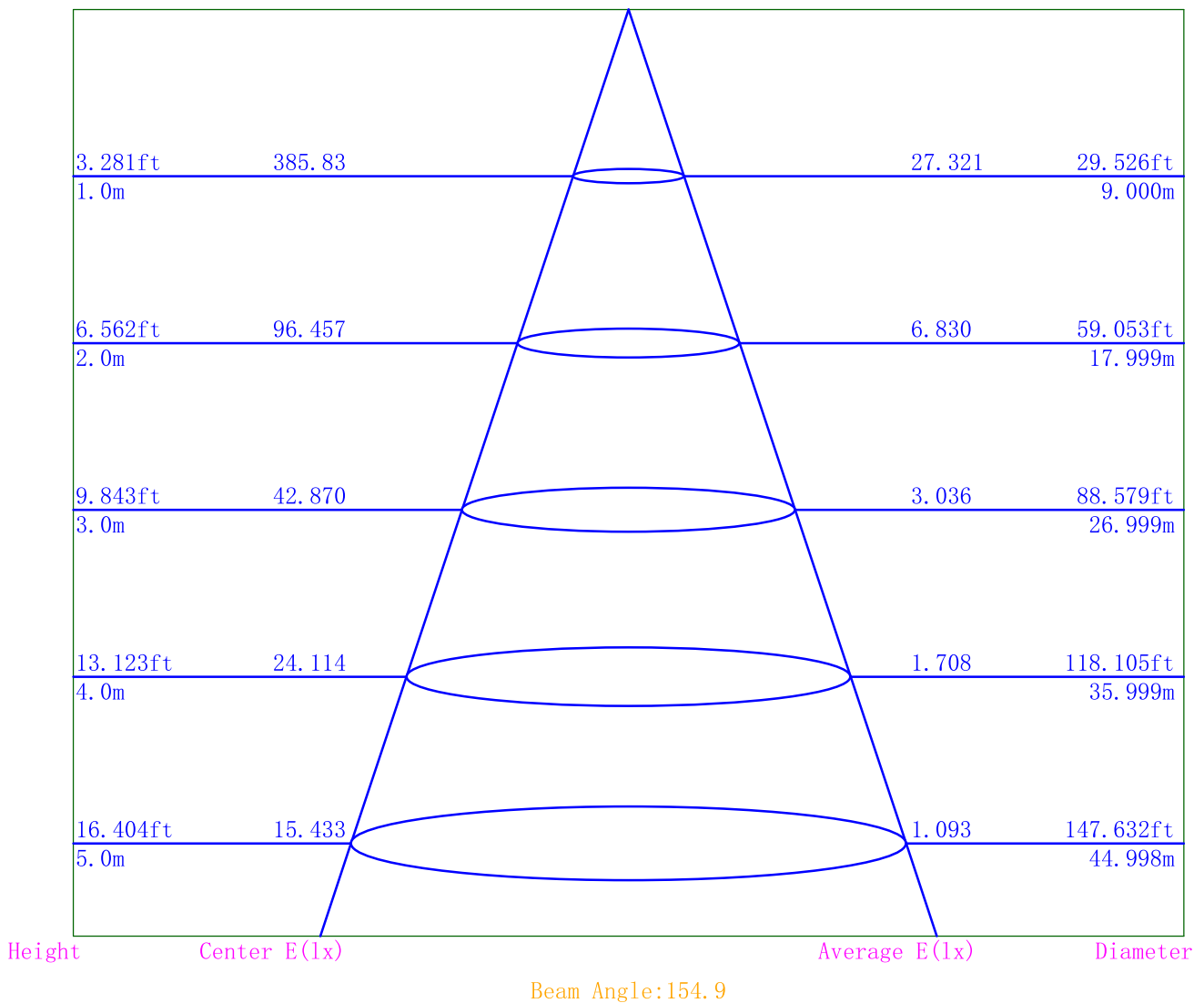
- Curves:
[Unit: lx]
[EMax] =388.471
- [EMax*90%]=349.624
 - [EMax*80%]=310.777
 - [EMax*70%]=271.930
 - [EMax*60%]=233.083
 - [EMax*50%]=194.236
 - [EMax*40%]=155.389
 - [EMax*30%]=116.541
 - [EMax*20%]=77.694
 - [EMax*10%]=38.847

Space Plane Maximum Illuminance and @Angle:388.47lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:388.649cd,0deg

Illuminance-Distance Diagram

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2022/04/28

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYPH	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/04/28

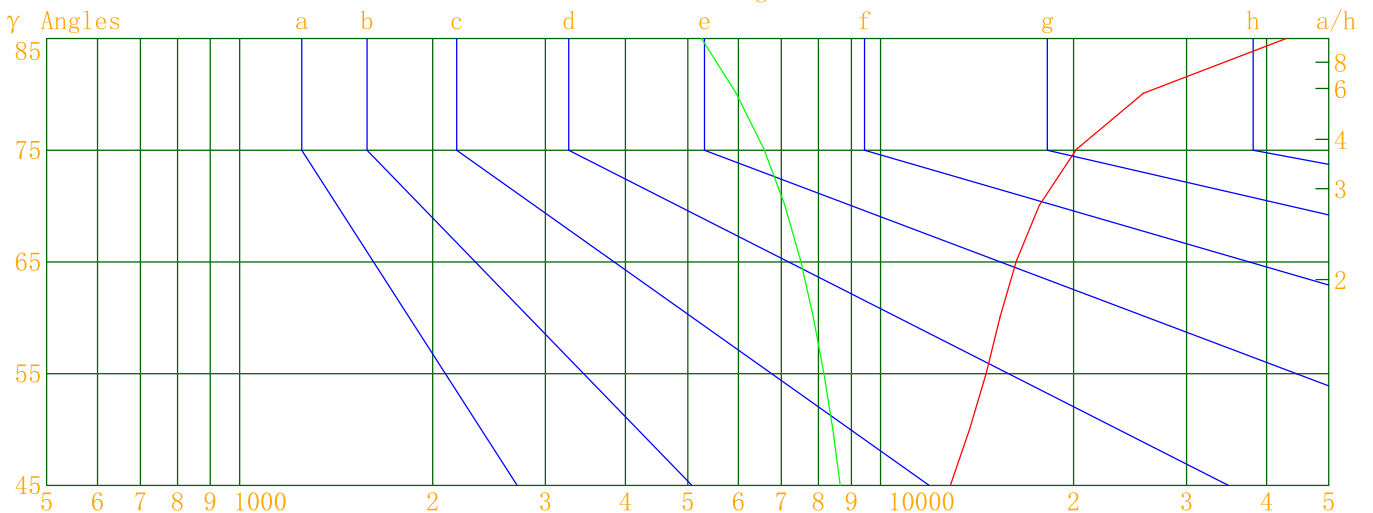
Glare Grade Table

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	12839	13761	14609	15354	16285	17691	20210	25692	42931
C90	8652	8419	8151	7855	7504	7089	6579	5954	5257

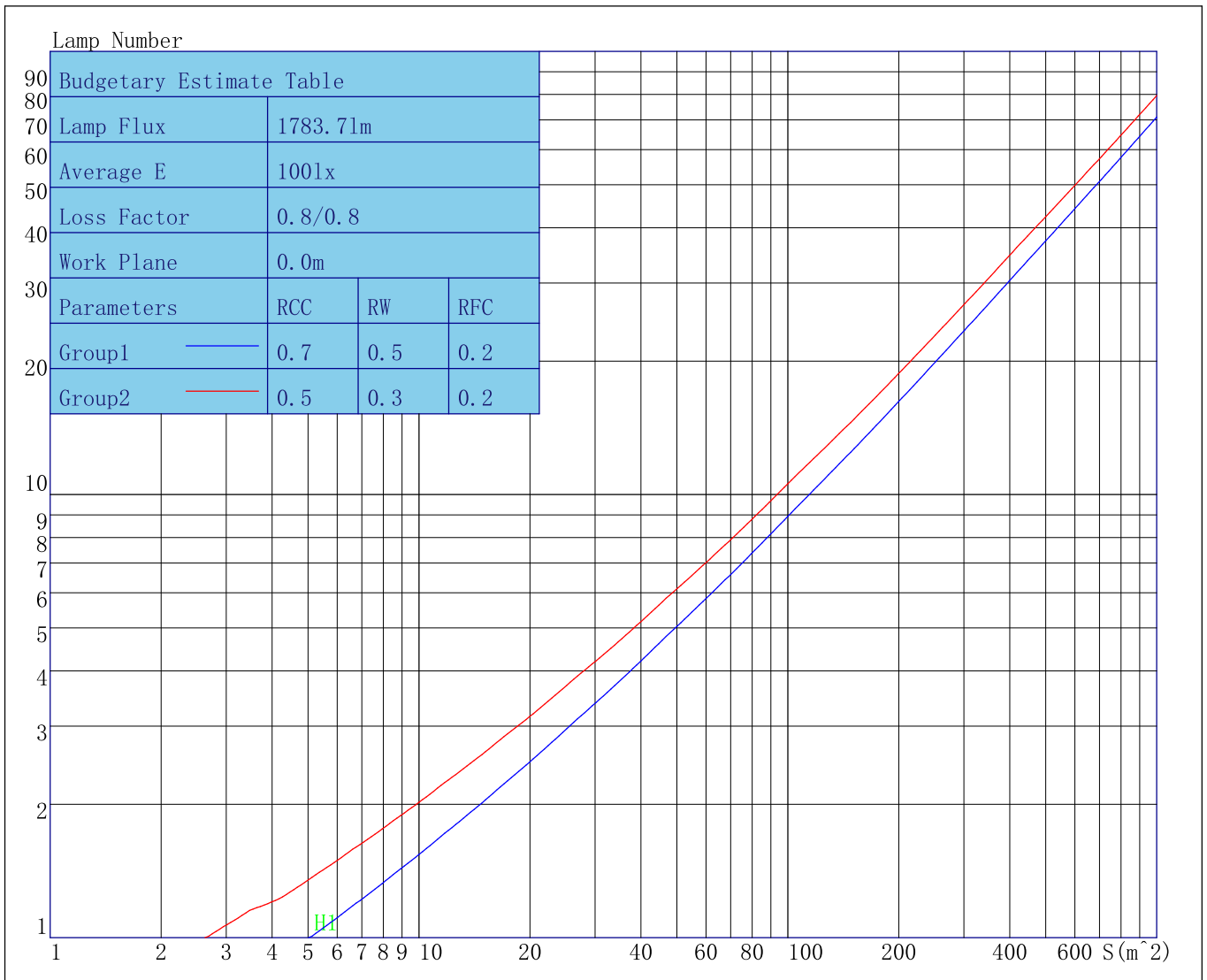
Luminance Limiting Curve



Luminous Size: Length(m)=0.570 Width(m)=0.041 Height(m)=0.027 Area(m²)=0.038760
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

Indoor Budgetary Estimate Table

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2022/04/28



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

Indoor Coefficient of Utilization Table

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/04/28

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82
1	102	96	91	87	98	92	88	84	85	81	78	78	75	72	72	69	67	64
2	92	83	75	68	87	79	72	66	73	67	62	67	62	58	61	57	54	51
3	83	72	63	56	79	69	60	54	63	56	51	58	52	48	53	49	45	42
4	76	63	53	46	72	60	52	45	55	48	42	51	45	40	47	42	38	35
5	69	56	46	39	66	53	45	38	49	42	36	45	39	34	42	36	32	29
6	64	50	40	34	61	48	39	33	44	37	31	41	34	30	38	32	28	25
7	59	45	36	29	56	43	35	29	40	33	27	37	31	26	34	29	25	22
8	55	41	32	26	52	39	31	25	36	29	24	34	28	23	31	26	22	20
9	51	37	29	23	49	36	28	23	33	26	22	31	25	21	29	23	20	17
10	48	34	26	21	45	33	25	20	31	24	19	29	23	19	27	21	18	16

Unified Glare Rating Table

Lum. Name: U型灯管一代 玻璃单色覆膜0.57M15W99颗HL421 50K TYP	Lum. Catalog: 220304-3 GXZ 0101	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/04/28

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	21.5	22.8	20.7	22.0	22.6	19.4	20.7	18.6	19.9	20.5
	Y=3H	24.0	25.3	23.5	24.6	25.2	21.1	22.3	20.5	21.6	22.3
	Y=4H	25.4	26.5	24.9	26.0	26.6	21.8	23.0	21.4	22.4	23.1
	Y=6H	26.8	27.9	26.4	27.4	28.1	22.4	23.5	22.0	23.0	23.7
	Y=8H	27.6	28.6	27.2	28.2	28.9	22.6	23.6	22.3	23.2	23.9
	Y=12H	28.4	29.4	28.1	29.1	29.8	22.7	23.7	22.4	23.3	24.0
X=4H	Y=2H	21.2	22.3	20.7	21.8	22.4	19.6	20.7	19.1	20.1	20.8
	Y=3H	23.8	24.8	23.5	24.5	25.2	21.5	22.5	21.2	22.1	22.8
	Y=4H	25.3	26.2	25.1	25.9	26.7	22.4	23.3	22.2	23.1	23.8
	Y=6H	27.0	27.8	26.9	27.6	28.4	23.3	24.1	23.2	24.0	24.7
	Y=8H	27.9	28.6	27.9	28.6	29.4	23.6	24.4	23.6	24.3	25.1
	Y=12H	29.0	29.7	29.1	29.7	30.5	23.9	24.5	23.9	24.6	25.4
X=8H	Y=4H	27.2	27.9	27.2	27.9	28.7	24.4	25.1	24.4	25.1	25.9
	Y=6H	28.8	29.3	28.9	29.5	30.3	25.2	25.8	25.4	25.9	26.8
	Y=8H	29.7	30.2	29.9	30.4	31.2	25.6	26.1	25.8	26.3	27.2
	Y=12H	30.8	31.2	31.1	31.5	32.4	25.9	26.4	26.2	26.6	27.5
X=12H	Y=4H	27.4	28.0	27.4	28.1	28.9	25.0	25.7	25.1	25.7	26.5
	Y=6H	29.1	29.6	29.3	29.8	30.7	26.1	26.6	26.3	26.8	27.6
	Y=8H	30.1	30.6	30.4	30.9	31.7	26.6	27.0	26.9	27.3	28.2
Variations with the objverer position at spacings											
S=1.0H	0.4/-0.5					0.3/-0.4					
S=1.5H	0.8/-1.0					0.5/-0.6					
S=2.0H	0.5/-1.0					0.8/-0.7					
Reduced UGR Table:											
Nordic Standard Table:	BKO					BKO					
Correction Value	6.0					4.8					

le is calculated according to the document STD.CIE 117-1995

Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 0.0	385.83	385.83	385.83	385.83	385.83	385.83	385.83	385.83	385.83	385.83	385.83	385.83
γ 1.0	388.65	386.01	384.75	384.25	384.11	383.77	388.64	385.87	385.17	384.79	384.26	384.00
γ 2.0	388.51	385.55	384.35	383.72	383.58	383.70	388.70	386.11	385.23	384.85	384.40	383.95
γ 3.0	388.46	385.54	383.81	382.91	383.08	383.40	389.07	385.97	385.09	384.43	384.09	384.14
γ 4.0	388.28	384.92	383.21	382.10	382.26	382.88	389.00	386.13	384.91	384.44	383.82	383.87
γ 5.0	388.31	384.71	382.62	381.19	381.74	382.59	388.69	386.14	384.80	383.82	383.52	383.55
γ 6.0	388.12	384.18	381.80	380.01	380.76	382.22	388.87	385.95	384.18	383.19	383.03	383.32
γ 7.0	388.11	383.92	380.77	378.71	379.81	381.58	388.87	385.77	383.53	382.38	382.21	383.14
γ 8.0	387.70	383.21	379.73	377.24	378.52	381.43	388.95	385.49	383.99	381.70	381.40	382.83
γ 9.0	387.61	382.79	378.52	375.59	377.24	380.83	388.81	385.39	382.43	380.41	380.61	382.34
γ 10.0	387.13	382.08	377.31	373.81	375.93	379.91	388.47	385.13	381.53	379.34	379.29	381.96
γ 11.0	386.76	381.45	375.83	372.11	374.25	379.12	388.57	384.72	380.66	377.90	378.19	381.34
γ 12.0	386.55	380.55	374.43	369.94	372.71	378.08	388.27	384.33	379.31	376.35	376.87	380.64
γ 13.0	386.11	379.75	372.72	367.60	370.80	377.12	387.94	383.74	378.33	374.44	375.39	379.81
γ 14.0	385.77	379.01	371.06	365.41	368.89	376.15	387.67	383.15	376.79	372.77	373.73	379.12
γ 15.0	385.09	378.14	369.33	362.74	366.79	375.33	387.44	382.70	375.31	370.70	372.13	378.26
γ 16.0	384.81	377.11	367.50	360.25	364.79	374.08	387.14	381.82	373.92	368.56	370.22	377.44
γ 17.0	384.36	376.21	365.46	357.41	362.54	372.81	386.85	381.12	372.19	366.19	368.40	376.29
γ 18.0	383.77	375.10	363.24	354.64	359.97	371.57	386.26	380.47	370.47	363.58	365.96	375.21
γ 19.0	383.06	374.03	361.15	351.63	357.50	370.40	385.95	379.56	368.39	361.39	364.11	373.89
γ 20.0	382.49	372.77	358.73	348.59	354.89	368.87	385.33	378.71	366.77	358.58	361.64	372.79
γ 21.0	381.74	371.69	356.32	345.16	352.27	367.47	384.75	377.74	364.51	355.67	359.24	371.45
γ 22.0	381.20	370.31	353.63	341.79	349.35	365.89	384.40	376.80	362.30	352.62	356.68	370.11
γ 23.0	380.39	368.81	351.26	338.44	346.47	364.30	383.55	375.65	360.11	349.50	353.98	368.70
γ 24.0	379.55	367.49	348.42	334.77	343.49	362.75	382.96	374.62	357.60	346.35	351.24	367.20
γ 25.0	378.63	366.20	345.74	330.98	340.30	360.82	382.49	373.34	355.25	342.95	348.36	365.64
γ 26.0	377.84	364.64	342.82	327.21	337.10	359.30	381.60	372.17	352.46	339.30	345.30	364.02
γ 27.0	376.87	363.12	340.01	323.21	333.88	357.49	380.83	371.01	350.04	335.90	342.20	362.34
γ 28.0	375.83	361.46	336.71	319.22	330.35	355.75	379.89	369.57	347.29	331.90	339.09	360.60
γ 29.0	374.78	359.95	333.67	315.03	327.03	353.65	379.08	368.25	344.18	328.35	335.75	358.95
γ 30.0	373.65	358.21	330.73	310.71	323.48	351.69	378.51	366.85	341.54	324.32	332.17	356.85
γ 31.0	372.52	356.41	327.43	306.29	319.74	349.66	377.26	365.29	338.49	320.28	328.98	355.20
γ 32.0	371.56	354.56	324.26	301.91	316.13	347.77	376.43	363.85	335.42	316.06	325.40	353.14
γ 33.0	370.18	352.74	320.83	297.29	312.24	345.71	375.48	362.61	332.17	311.77	321.76	351.10
γ 34.0	368.95	350.77	317.42	292.68	308.32	343.49	374.35	360.70	329.08	307.30	317.81	349.01
γ 35.0	367.55	348.76	313.86	288.04	304.35	341.35	373.32	358.85	325.75	302.96	314.15	346.57
γ 36.0	366.36	346.86	310.46	283.26	300.55	339.06	372.29	357.14	322.33	298.42	310.20	344.81
γ 37.0	364.76	344.75	306.84	278.30	296.39	336.88	371.01	355.33	318.97	293.71	306.26	342.44
γ 38.0	363.34	342.81	303.37	273.48	292.27	334.53	369.65	353.40	315.55	289.11	302.20	340.21
γ 39.0	361.95	340.65	299.62	268.01	288.08	332.29	368.44	351.69	312.16	284.14	298.27	337.93
γ 40.0	360.32	338.43	295.36	263.28	284.00	329.90	367.15	349.59	308.49	279.24	294.04	335.46
γ 41.0	358.79	335.81	292.16	258.23	279.67	327.56	365.90	347.79	304.89	274.38	289.88	332.94
γ 42.0	357.08	334.04	288.32	253.19	275.38	325.06	364.47	345.86	301.16	269.20	285.66	330.48
γ 43.0	355.48	331.57	284.45	247.88	271.07	322.48	362.91	343.78	297.41	264.16	281.41	328.18
γ 44.0	353.82	329.49	280.54	242.57	266.77	320.10	361.34	341.57	293.77	259.09	277.05	325.55
γ 45.0	351.88	327.12	276.80	237.14	262.32	317.53	359.92	339.61	289.89	253.62	272.62	322.88
γ 46.0	350.28	324.57	272.90	231.77	257.86	314.83	358.29	337.42	286.01	248.34	268.21	320.43

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 47.0	348.32	322.29	269.01	226.24	253.35	312.26	356.67	335.23	282.32	243.07	263.80	317.81
γ 48.0	346.52	319.86	264.97	220.83	248.82	309.70	354.95	332.98	278.21	237.47	259.14	315.18
γ 49.0	344.62	317.32	260.90	215.17	244.31	306.91	353.43	330.60	274.52	232.12	254.76	312.37
γ 50.0	342.85	315.13	256.96	209.75	239.86	304.41	351.70	328.43	270.52	226.55	250.16	309.67
γ 51.0	340.79	312.44	252.90	203.98	235.16	301.46	349.85	326.10	266.56	221.03	245.52	306.85
γ 52.0	337.93	310.13	248.88	198.32	230.63	298.83	348.14	323.90	262.71	215.30	240.91	304.12
γ 53.0	333.85	307.52	244.71	192.72	226.00	296.20	345.40	321.61	258.69	209.61	236.30	301.20
γ 54.0	329.59	304.90	240.90	186.93	221.41	293.38	341.35	319.24	254.69	203.84	231.65	298.54
γ 55.0	324.78	301.58	236.98	181.22	216.82	290.54	337.02	316.88	250.83	198.18	227.03	295.73
γ 56.0	319.78	297.20	232.99	175.48	212.24	287.92	332.23	314.40	246.69	192.36	222.26	292.90
γ 57.0	314.50	292.48	229.01	169.67	207.74	284.83	327.20	310.36	242.76	186.54	217.60	290.08
γ 58.0	308.92	287.33	224.96	163.75	203.13	280.76	321.82	305.75	238.73	180.62	213.07	286.78
γ 59.0	303.41	281.93	221.01	158.29	198.57	275.87	316.39	300.72	234.74	174.81	208.36	282.31
γ 60.0	297.56	276.58	217.05	152.23	194.06	270.67	310.70	295.48	230.59	168.95	203.76	277.15
γ 61.0	291.65	270.88	213.09	146.43	189.45	265.28	304.63	289.90	226.60	162.90	199.12	272.06
γ 62.0	285.60	265.06	209.34	140.69	185.08	259.74	298.75	284.48	222.64	157.10	194.60	266.67
γ 63.0	279.63	259.20	205.35	134.72	180.64	253.92	292.54	278.57	218.77	151.15	189.95	261.05
γ 64.0	273.20	253.14	201.52	128.74	176.09	247.99	285.80	272.50	214.84	145.12	185.34	255.17
γ 65.0	266.77	247.05	197.79	122.91	171.71	241.94	279.96	266.44	210.96	139.27	180.76	249.35
γ 66.0	260.44	240.65	193.70	117.05	167.32	236.00	273.55	260.27	207.21	133.30	176.26	243.25
γ 67.0	254.00	234.30	188.62	111.20	162.99	229.76	267.00	253.94	203.20	127.37	171.71	237.19
γ 68.0	247.56	227.83	183.28	105.46	158.77	223.51	260.73	247.56	198.33	121.39	167.33	230.99
γ 69.0	241.09	221.54	177.56	99.70	154.62	217.27	254.12	241.13	192.85	115.45	162.90	224.50
γ 70.0	234.52	214.99	171.79	93.98	150.46	210.91	247.84	234.63	187.09	109.47	158.68	218.01
γ 71.0	228.05	208.55	165.93	88.25	146.38	204.60	241.29	228.08	181.14	103.59	154.48	211.54
γ 72.0	221.65	202.11	159.91	82.63	141.45	198.27	234.80	221.69	175.03	97.69	150.23	205.13
γ 73.0	215.23	195.76	153.91	77.04	136.08	192.08	228.62	215.20	168.79	91.89	145.32	198.65
γ 74.0	209.04	189.45	147.84	71.53	130.48	185.75	222.27	208.78	162.67	86.07	139.72	192.18
γ 75.0	202.74	183.23	141.61	66.00	124.63	179.59	216.09	202.38	156.31	80.31	133.85	185.65
γ 76.0	196.70	176.97	135.30	60.60	118.84	173.44	210.06	196.02	150.03	74.55	127.88	179.13
γ 77.0	190.69	170.94	129.07	55.31	112.92	167.45	203.92	189.85	143.56	68.95	121.75	172.93
γ 78.0	184.66	164.95	122.90	50.11	106.96	161.58	198.00	183.68	137.16	63.44	115.60	166.60
γ 79.0	178.76	158.92	116.72	45.02	100.88	155.77	192.04	177.64	130.78	57.97	109.43	160.36
γ 80.0	172.92	153.18	110.65	40.08	94.90	150.05	186.25	171.62	124.35	52.59	103.12	154.30
γ 81.0	167.16	147.37	104.74	35.27	88.83	144.31	180.57	165.68	117.96	47.31	96.76	148.24
γ 82.0	161.58	141.74	98.85	30.62	82.92	138.69	174.81	159.77	111.77	42.19	90.44	142.21
γ 83.0	155.96	136.13	93.15	26.20	77.29	133.19	169.16	154.11	105.68	37.23	84.21	136.37
γ 84.0	150.49	130.73	87.55	22.00	71.84	127.76	163.60	148.46	99.58	32.31	78.17	130.61
γ 85.0	145.03	125.34	82.10	17.76	66.48	122.38	157.98	142.83	93.73	27.63	72.35	124.97
γ 86.0	139.73	120.13	76.90	14.06	61.42	117.17	152.63	137.29	88.02	23.41	66.66	119.41
γ 87.0	134.44	114.93	71.86	10.76	56.53	112.03	147.23	131.79	82.50	19.62	61.15	113.90
γ 88.0	129.25	109.96	67.09	7.68	51.95	107.11	141.89	126.41	77.20	16.27	55.89	108.54
γ 89.0	124.25	105.23	62.67	5.36	47.80	102.43	136.77	121.25	72.23	12.71	51.00	103.30
γ 90.0	119.92	102.00	59.60	4.58	44.83	98.74	131.81	116.18	67.61	9.13	46.48	98.42
γ 91.0	118.27	100.69	58.48	4.43	43.83	97.39	127.93	111.80	63.87	6.72	43.04	94.60
γ 92.0	116.78	99.45	57.47	4.67	43.03	96.30	126.52	110.11	62.64	5.58	41.94	93.14
γ 93.0	115.38	98.21	56.58	4.75	42.54	95.22	125.21	108.84	61.70	5.20	41.05	91.85

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 94.0	113.99	97.04	55.83	4.60	42.32	94.26	123.90	107.68	60.86	5.29	40.30	90.57
γ 95.0	112.72	95.90	55.31	4.82	42.31	93.36	122.69	106.50	60.19	5.35	39.75	89.40
γ 96.0	111.42	94.90	55.01	5.16	42.44	92.67	121.44	105.44	59.63	5.58	39.42	88.27
γ 97.0	110.29	94.10	54.88	5.47	42.77	92.06	120.40	104.43	59.27	5.92	39.35	87.28
γ 98.0	109.27	93.37	54.97	5.69	43.16	91.61	119.40	103.55	59.01	6.22	39.49	86.44
γ 99.0	108.32	92.78	55.20	5.76	43.62	91.21	118.52	102.77	58.98	6.43	39.59	85.70
γ 100.0	107.53	92.29	55.52	5.80	43.83	90.90	117.68	101.95	59.05	6.61	39.47	85.12
γ 101.0	106.81	91.94	55.83	5.85	43.85	90.64	116.90	101.53	59.28	6.74	39.11	84.63
γ 102.0	106.22	91.76	55.96	5.95	43.79	90.47	116.24	100.90	59.49	6.84	38.60	84.33
γ 103.0	105.72	91.56	55.87	6.06	43.56	90.44	115.63	100.46	59.46	6.97	37.96	84.16
γ 104.0	105.32	91.50	55.75	6.23	43.16	90.42	115.10	100.14	59.29	7.09	36.82	84.13
γ 105.0	105.03	91.48	55.56	6.37	42.38	90.38	114.60	99.91	59.02	7.24	35.53	84.12
γ 106.0	104.78	91.42	55.24	6.47	41.69	90.33	114.24	99.69	58.71	7.39	34.24	84.04
γ 107.0	104.58	91.24	54.83	6.60	41.09	90.09	113.93	99.47	58.32	7.56	33.17	83.81
γ 108.0	104.36	90.85	53.94	6.76	40.48	89.60	113.45	99.30	57.81	7.74	32.10	83.38
γ 109.0	103.70	90.00	52.92	7.05	39.64	89.03	113.00	98.93	56.99	7.93	31.12	82.81
γ 110.0	101.67	88.38	52.02	7.45	37.94	88.34	111.69	98.28	55.87	8.15	30.15	82.18
γ 111.0	97.43	86.58	51.19	7.82	36.32	87.55	108.09	97.51	54.78	8.43	29.02	81.57
γ 112.0	92.17	85.02	50.38	8.05	35.20	86.77	102.94	96.75	53.88	8.64	28.55	80.79
γ 113.0	87.42	83.83	49.52	8.28	34.63	85.90	97.30	95.89	53.01	8.93	28.40	80.00
γ 114.0	85.02	82.72	48.49	8.49	34.11	84.93	93.68	94.95	52.15	9.21	28.20	79.10
γ 115.0	84.24	80.99	46.44	8.70	33.55	83.85	92.17	93.91	51.24	9.43	27.95	77.98
γ 116.0	84.79	78.40	44.48	8.93	32.97	82.38	92.18	92.74	49.39	9.68	27.59	76.37
γ 117.0	86.09	75.92	42.70	9.12	32.34	80.36	93.31	91.13	47.59	10.04	27.21	74.61
γ 118.0	86.63	73.41	41.18	8.98	31.68	78.03	94.52	88.72	46.59	10.44	26.72	73.04
γ 119.0	85.35	70.84	40.14	8.75	31.01	75.82	93.99	86.20	45.73	10.87	26.17	71.64
γ 120.0	83.66	69.33	39.33	8.79	30.32	73.77	92.68	83.55	44.99	10.94	25.59	70.12
γ 121.0	82.21	68.44	38.52	8.84	29.69	71.56	91.28	80.83	44.23	10.68	25.14	68.63
γ 122.0	81.24	67.17	37.70	8.84	29.26	69.12	89.90	78.16	43.45	10.58	24.64	66.77
γ 123.0	81.10	65.98	36.82	8.85	28.88	66.58	89.32	75.54	42.65	10.69	24.06	64.75
γ 124.0	80.12	64.75	35.93	8.90	28.53	63.37	88.93	73.20	41.83	10.85	23.76	62.41
γ 125.0	78.72	63.27	34.89	9.02	28.16	60.22	87.32	71.31	40.99	11.01	23.26	58.92
γ 126.0	77.23	60.81	33.66	9.13	27.74	57.72	85.75	69.64	40.08	11.17	23.13	55.62
γ 127.0	75.71	58.15	32.55	9.24	27.26	55.73	84.14	67.24	39.19	11.30	22.83	52.68
γ 128.0	74.04	55.88	31.73	9.37	26.49	54.29	82.54	64.39	38.20	11.44	21.88	50.01
γ 129.0	71.53	53.80	30.79	9.50	25.17	53.22	80.80	62.42	37.26	11.58	20.65	47.44
γ 130.0	68.05	51.92	29.85	9.60	23.64	52.15	78.04	60.91	36.39	11.75	19.26	45.18
γ 131.0	65.10	50.49	28.93	9.72	22.05	51.07	74.62	59.65	35.54	11.89	18.00	43.08
γ 132.0	62.66	49.31	27.90	9.85	20.59	49.96	71.90	58.49	34.60	12.05	16.95	41.27
γ 133.0	60.29	48.11	27.10	9.95	19.49	48.84	69.60	57.28	33.62	12.23	16.97	39.87
γ 134.0	58.30	46.88	26.58	10.05	18.64	47.67	67.72	56.06	32.52	12.40	17.79	38.80
γ 135.0	56.74	45.63	26.02	10.16	18.03	46.56	66.22	54.83	31.58	12.57	18.11	37.86
γ 136.0	55.20	44.34	25.26	10.28	18.11	45.44	64.78	53.57	30.53	12.73	18.70	37.01
γ 137.0	53.71	43.06	24.20	10.52	18.43	44.29	63.30	52.31	29.23	12.89	19.24	36.25
γ 138.0	52.16	41.78	22.93	11.39	18.76	43.11	61.77	51.03	27.56	13.05	19.68	35.39
γ 139.0	50.62	40.58	22.18	12.39	19.11	41.96	60.25	49.67	25.78	13.19	19.99	34.88
γ 140.0	49.11	39.54	21.87	13.30	19.50	41.06	58.72	48.26	24.26	13.32	20.18	34.41

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 141.0	47.59	38.65	21.60	14.12	19.89	40.23	57.16	46.85	23.88	13.44	20.19	33.81
γ 142.0	46.13	37.86	21.68	14.88	20.23	39.46	55.57	45.44	23.86	13.57	20.09	33.05
γ 143.0	44.89	37.19	22.27	15.56	20.61	38.72	53.93	44.26	23.95	13.91	19.97	31.95
γ 144.0	43.76	36.65	22.99	16.22	21.04	37.97	52.22	43.25	24.23	14.85	20.26	30.90
γ 145.0	42.74	36.14	23.59	16.73	21.50	37.26	50.53	42.44	24.51	15.80	20.81	29.80
γ 146.0	41.78	35.71	24.12	17.04	21.98	36.43	48.99	41.74	24.79	16.58	20.95	29.39
γ 147.0	40.84	35.23	24.53	17.23	22.47	35.59	47.69	41.06	25.04	17.26	20.94	28.70
γ 148.0	39.96	34.65	24.64	17.36	22.98	34.68	46.48	40.38	25.18	17.90	21.05	27.94
γ 149.0	39.14	33.92	24.32	17.48	23.44	33.71	45.37	39.54	25.27	18.53	21.29	27.23
γ 150.0	38.23	32.84	23.92	17.59	23.74	32.60	44.16	38.56	25.27	19.10	21.53	26.38
γ 151.0	37.17	31.62	23.95	17.71	24.13	31.56	43.01	37.34	25.21	19.48	21.65	26.09
γ 152.0	36.39	30.56	23.90	17.81	24.52	30.79	41.76	35.84	25.29	19.77	21.51	26.72
γ 153.0	35.52	29.69	23.41	17.91	24.92	30.38	40.64	34.57	25.81	20.01	21.25	27.11
γ 154.0	34.37	29.50	23.03	17.97	25.32	30.61	39.55	33.64	26.14	20.19	20.96	27.73
γ 155.0	33.21	29.93	22.52	18.01	25.65	30.76	38.40	33.01	26.58	20.36	20.57	28.30
γ 156.0	32.11	30.33	21.99	18.01	25.87	30.88	37.12	32.83	27.01	20.54	20.03	28.62
γ 157.0	32.05	30.55	21.58	18.07	25.90	30.92	36.11	32.67	27.26	20.72	18.05	28.72
γ 158.0	31.23	30.51	21.17	18.19	25.83	30.91	35.40	32.53	27.65	20.87	15.96	28.36
γ 159.0	32.35	29.90	20.82	18.30	24.37	30.75	35.24	32.31	28.06	21.01	14.87	27.93
γ 160.0	33.11	29.50	20.47	18.41	22.98	30.72	35.11	32.12	28.45	21.13	14.13	28.54
γ 161.0	32.93	29.46	20.23	18.51	22.20	31.03	34.91	31.89	28.76	21.26	13.41	27.81
γ 162.0	32.85	27.85	19.78	18.63	21.55	31.30	34.68	32.17	28.88	21.38	12.99	26.77
γ 163.0	33.63	25.85	19.32	18.74	21.38	31.47	34.16	32.81	28.89	21.47	12.81	25.75
γ 164.0	33.24	24.19	17.82	18.85	21.28	31.71	34.62	33.30	28.06	21.58	12.73	24.92
γ 165.0	32.49	23.14	14.94	18.95	21.25	31.91	34.97	33.49	27.27	21.67	12.87	24.17
γ 166.0	33.07	22.39	13.74	19.06	21.36	31.98	34.77	33.42	24.68	21.77	12.97	23.16
γ 167.0	32.91	21.48	13.22	19.15	21.52	31.78	34.22	33.27	23.13	21.86	12.73	21.58
γ 168.0	30.86	20.24	12.85	19.81	21.55	31.04	33.82	33.03	22.79	21.92	12.46	17.45
γ 169.0	28.36	19.00	12.64	20.69	21.54	28.63	33.23	32.56	22.67	21.83	12.34	15.39
γ 170.0	25.07	14.87	12.57	21.62	21.60	25.26	29.86	30.90	22.54	21.74	12.54	13.94
γ 171.0	21.38	12.80	12.86	22.75	21.60	23.65	27.15	28.21	22.51	22.05	15.45	13.24
γ 172.0	20.04	12.15	13.41	23.99	23.28	23.07	24.97	24.69	22.44	22.81	19.02	13.01
γ 173.0	19.61	11.90	17.56	25.18	26.34	22.83	23.76	23.76	22.40	23.86	21.88	12.82
γ 174.0	19.19	11.76	22.58	26.40	28.24	22.41	23.09	23.35	22.96	25.00	23.32	12.11
γ 175.0	18.70	13.27	24.81	27.61	28.87	22.20	22.79	22.91	27.16	26.19	24.78	11.96
γ 176.0	19.25	19.14	26.35	28.78	29.49	26.42	22.21	22.58	29.20	27.41	26.35	17.89
γ 177.0	18.92	21.98	27.89	29.83	30.15	28.82	21.99	26.11	29.99	28.66	27.95	22.19
γ 178.0	16.43	25.22	29.56	30.79	30.82	29.02	19.39	28.68	30.34	29.86	29.72	25.04
γ 179.0	16.58	27.63	30.52	31.37	31.36	29.61	15.76	28.93	30.75	30.92	31.04	27.63
γ 180.0	26.42	26.42	26.42	26.42	26.42	26.42	26.42	26.42	26.42	26.42	26.42	26.42