

**Indoor Luminaire Photometric Data**

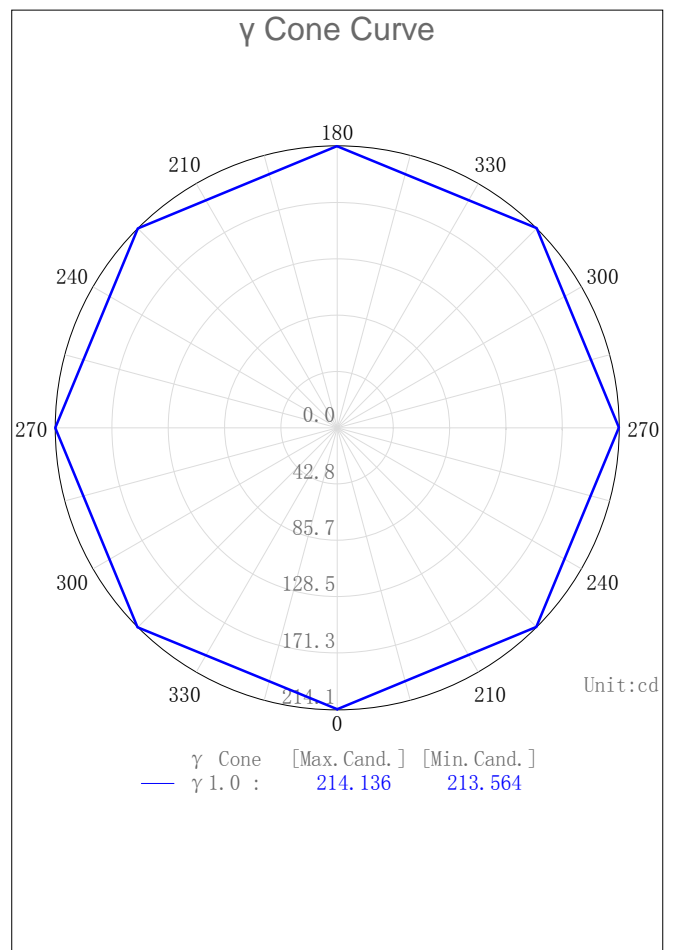
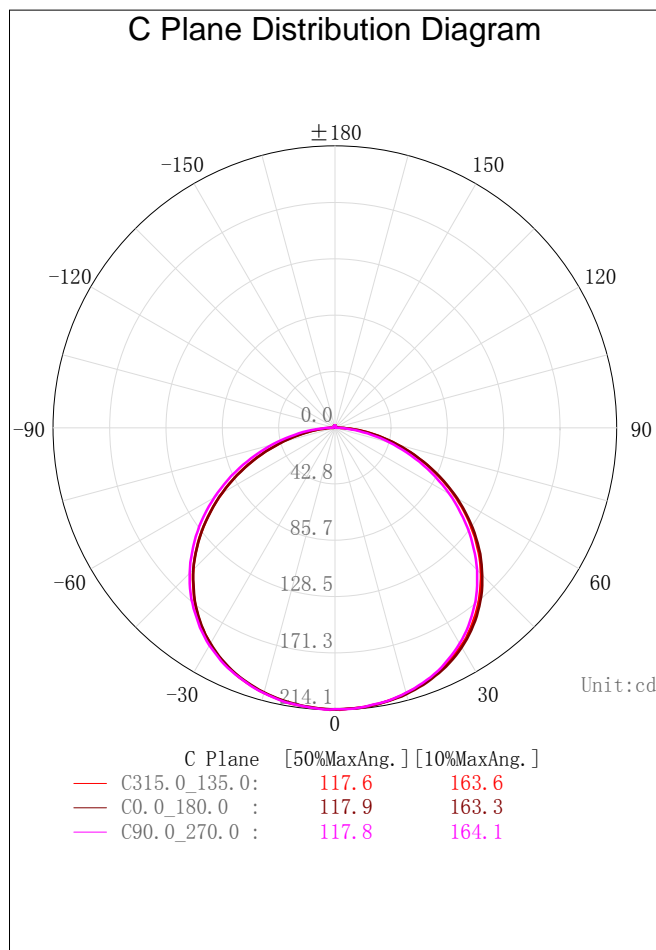
**Description Information**

Luminary Name: 8742-5CCT-3500K		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog: LED Lamp	Test Date: 2022/06/19
Manufacture: RP Lighting + Fans		Shld. Ang(°):	Test Machine:GON-2000
Test Lab:		Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.080m*0.080m*0.000m		Lum. Area (m2): 0.006	Lum. W (kg): 2.000
Test System: C, $\gamma$	Test Step: C=45.0 $\gamma$ =1.0	Temp. (°C): 25	Humidity (%): 60.0

**Character Parameter**

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 660.990	Luminary Flux(lm): 660.990	Field Angle(10%Imax): 163.6(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 654.474lm 99.01%	
Rated Voltage(V):	Luminary EER(lm/W): 72.877	Up Lumens&Percent: 6.516lm 0.99%	
Tested Power(W): 9.070	Max. Candela(cd): 214.136	S/MH: C0_a180=1.323 C90_270=1.318	
Lamps' Inside: 1	Max Cand@Ang. (°): C=315.0 $\gamma$ =1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 120.3, 0.077, 0.980	Beam Angle(50%Imax): 117.6(°)	ErP $\Phi$ use(120°): 509.485lm	
Lamp Size (W*L*H): 0.080m*0.080m*0.000m	Left=-57.8(°), Right=59.7(°)	IRF (%): 100.644	

**Lighting Distribution Diagram**



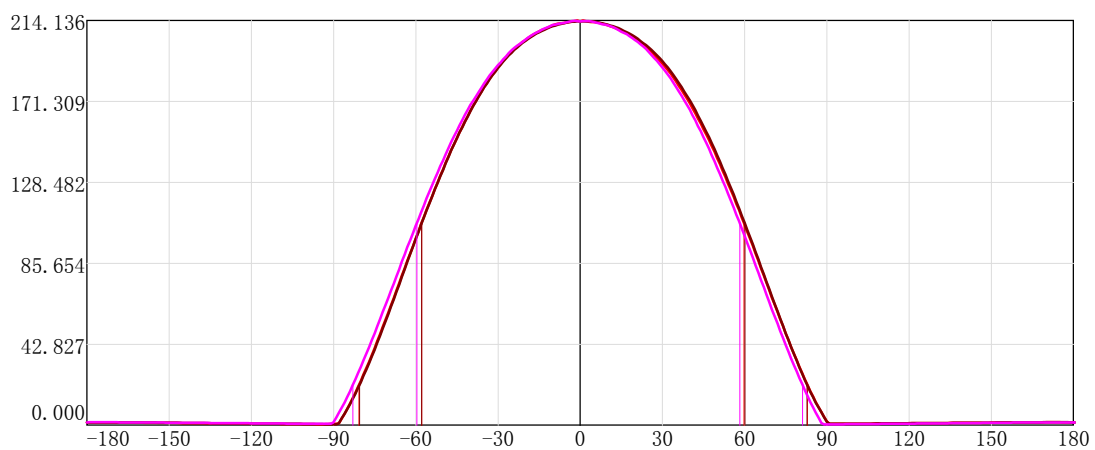
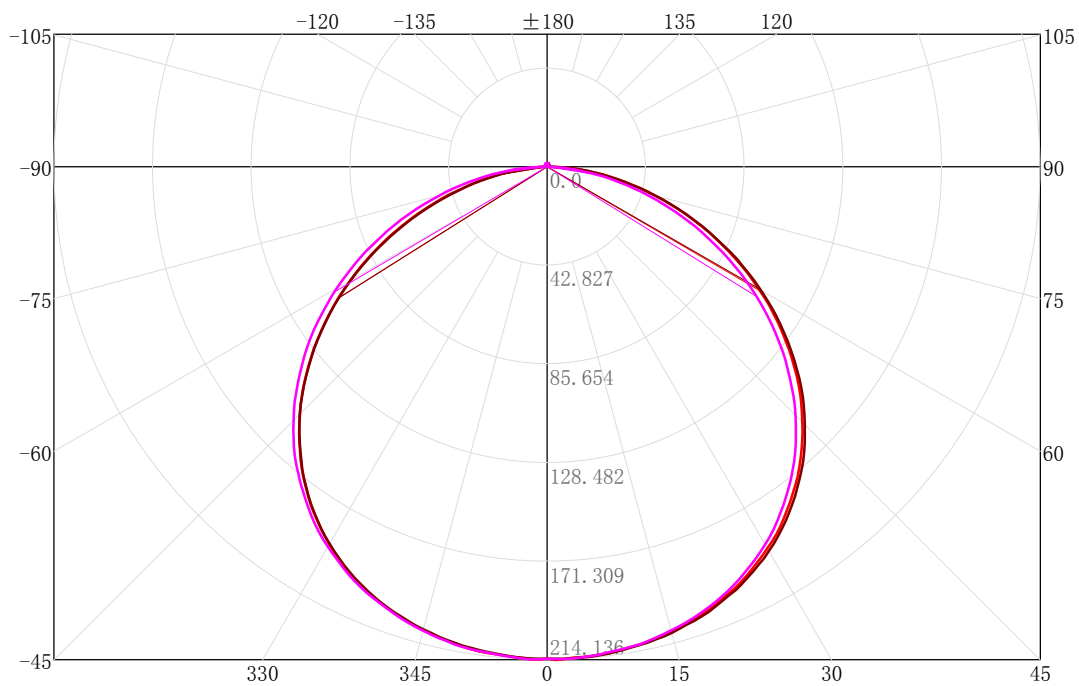
# IES Indoor Report

Photometric Filename:8752-5CCT-3500K\_IESNA2002.IES

## 2D Plane Light Intensity Distribution Curve

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

C Plane Distribution Diagram



	C Plane	[50%MaxAng. ]	[10%MaxAng. ]	Unit:cd
—	C315.0_135.0:	117.6	163.6	
—	C0.0_180.0 :	117.9	163.3	
—	C90.0_270.0 :	117.8	164.1	

# IES Indoor Report

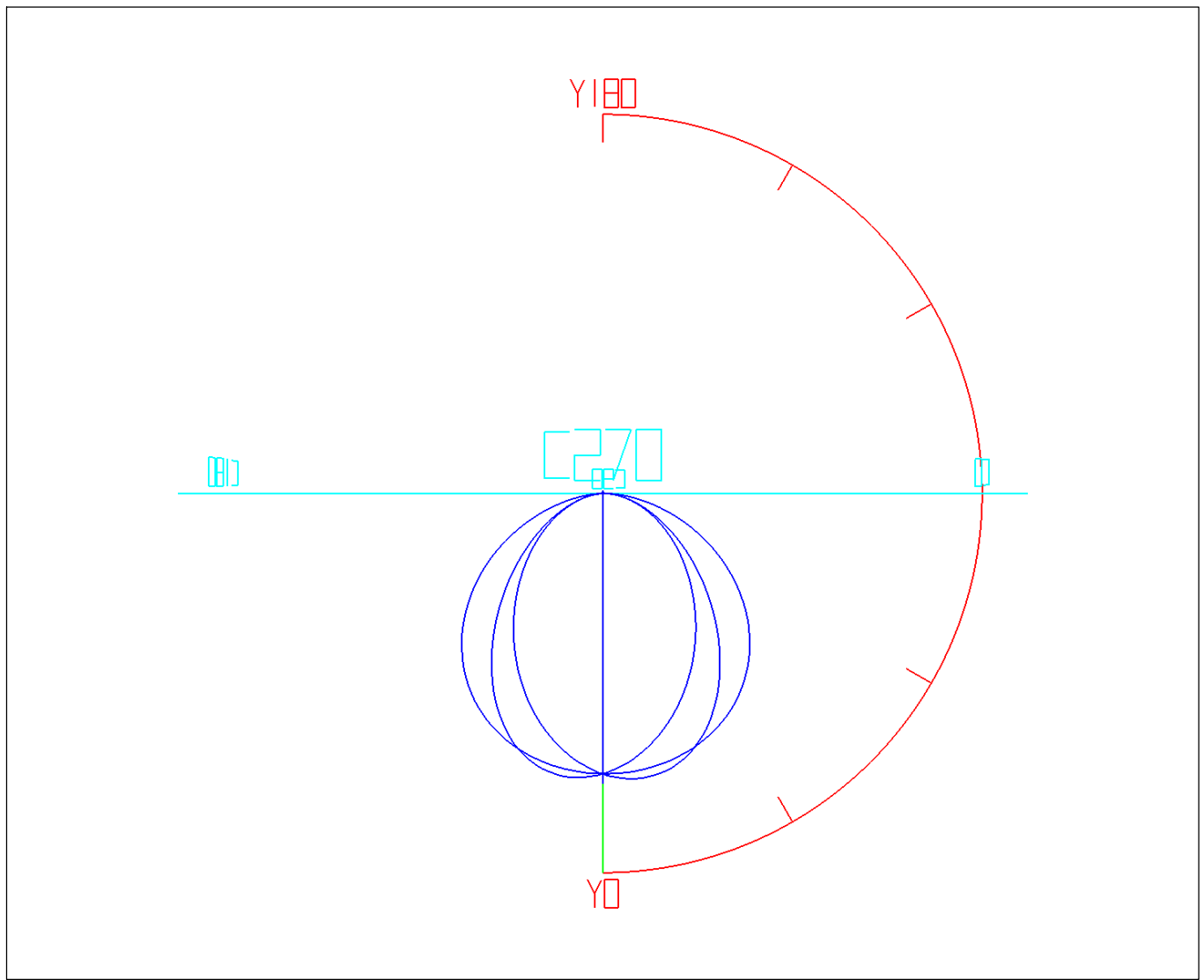
Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

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## 3D Light Intensity Distribution Modal

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

### 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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# IES Indoor Report

Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

## 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	0.20	0.20	0.03	0.03	47.0-48.0	11.86	11.86	1.79	1.79
1.0-2.0	0.61	0.82	0.09	0.12	48.0-49.0	11.78	23.65	1.78	3.58
2.0-3.0	1.02	1.84	0.15	0.28	49.0-50.0	11.69	35.33	1.77	5.35
3.0-4.0	1.43	3.27	0.22	0.49	50.0-51.0	11.58	46.92	1.75	7.10
4.0-5.0	1.83	5.10	0.28	0.77	51.0-52.0	11.46	58.37	1.73	8.83
5.0-6.0	2.24	7.34	0.34	1.11	52.0-53.0	11.31	69.69	1.71	10.54
6.0-7.0	2.64	9.98	0.40	1.51	53.0-54.0	11.15	80.84	1.69	12.23
7.0-8.0	3.04	13.03	0.46	1.97	54.0-55.0	10.98	91.82	1.66	13.89
8.0-9.0	3.44	16.46	0.52	2.49	55.0-56.0	10.79	102.61	1.63	15.52
9.0-10.0	3.83	20.30	0.58	3.07	56.0-57.0	10.58	113.19	1.60	17.12
10.0-11.0	4.22	24.52	0.64	3.71	57.0-58.0	10.36	123.55	1.57	18.69
11.0-12.0	4.61	29.13	0.70	4.41	58.0-59.0	10.13	133.68	1.53	20.22
12.0-13.0	4.99	34.11	0.75	5.16	59.0-60.0	9.88	143.55	1.49	21.72
13.0-14.0	5.36	39.48	0.81	5.97	60.0-61.0	9.62	153.17	1.45	23.17
14.0-15.0	5.73	45.21	0.87	6.84	61.0-62.0	9.34	162.51	1.41	24.59
15.0-16.0	6.10	51.31	0.92	7.76	62.0-63.0	9.05	171.56	1.37	25.96
16.0-17.0	6.46	57.77	0.98	8.74	63.0-64.0	8.75	180.32	1.32	27.28
17.0-18.0	6.81	64.58	1.03	9.77	64.0-65.0	8.44	188.76	1.28	28.56
18.0-19.0	7.16	71.73	1.08	10.85	65.0-66.0	8.12	196.87	1.23	29.78
19.0-20.0	7.49	79.22	1.13	11.99	66.0-67.0	7.79	204.66	1.18	30.96
20.0-21.0	7.82	87.04	1.18	13.17	67.0-68.0	7.45	212.11	1.13	32.09
21.0-22.0	8.14	95.18	1.23	14.40	68.0-69.0	7.11	219.22	1.08	33.17
22.0-23.0	8.45	103.63	1.28	15.68	69.0-70.0	6.76	225.98	1.02	34.19
23.0-24.0	8.75	112.38	1.32	17.00	70.0-71.0	6.40	232.39	0.97	35.16
24.0-25.0	9.04	121.43	1.37	18.37	71.0-72.0	6.04	238.43	0.91	36.07
25.0-26.0	9.32	130.75	1.41	19.78	72.0-73.0	5.68	244.11	0.86	36.93
26.0-27.0	9.59	140.34	1.45	21.23	73.0-74.0	5.31	249.42	0.80	37.73
27.0-28.0	9.85	150.19	1.49	22.72	74.0-75.0	4.95	254.37	0.75	38.48
28.0-29.0	10.09	160.27	1.53	24.25	75.0-76.0	4.58	258.95	0.69	39.18
29.0-30.0	10.32	170.60	1.56	25.81	76.0-77.0	4.21	263.16	0.64	39.81
30.0-31.0	10.54	181.14	1.59	27.40	77.0-78.0	3.85	267.01	0.58	40.40
31.0-32.0	10.75	191.88	1.63	29.03	78.0-79.0	3.49	270.50	0.53	40.92
32.0-33.0	10.94	202.82	1.65	30.68	79.0-80.0	3.13	273.64	0.47	41.40
33.0-34.0	11.11	213.93	1.68	32.36	80.0-81.0	2.79	276.42	0.42	41.82
34.0-35.0	11.27	225.20	1.70	34.07	81.0-82.0	2.44	278.87	0.37	42.19
35.0-36.0	11.41	236.61	1.73	35.80	82.0-83.0	2.11	280.98	0.32	42.51
36.0-37.0	11.54	248.15	1.75	37.54	83.0-84.0	1.78	282.76	0.27	42.78
37.0-38.0	11.66	259.81	1.76	39.31	84.0-85.0	1.47	284.22	0.22	43.00
38.0-39.0	11.76	271.56	1.78	41.08	85.0-86.0	1.16	285.39	0.18	43.18
39.0-40.0	11.84	283.40	1.79	42.88	86.0-87.0	0.87	286.25	0.13	43.31
40.0-41.0	11.90	295.30	1.80	44.68	87.0-88.0	0.58	286.84	0.09	43.39
41.0-42.0	11.95	307.25	1.81	46.48	88.0-89.0	0.36	287.19	0.05	43.45
42.0-43.0	11.98	319.22	1.81	48.29	89.0-90.0	0.21	287.40	0.03	43.48
43.0-44.0	11.99	331.21	1.81	50.11	90.0-91.0	0.11	287.51	0.02	43.50
44.0-45.0	11.98	343.19	1.81	51.92	91.0-92.0	0.08	287.58	0.01	43.51
45.0-46.0	11.96	355.15	1.81	53.73	92.0-93.0	0.08	287.66	0.01	43.52
46.0-47.0	11.92	367.07	1.80	55.53	93.0-94.0	0.07	287.73	0.01	43.53

# IES Indoor Report

Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

## Zonal Flux Tabulation - (Cont.)

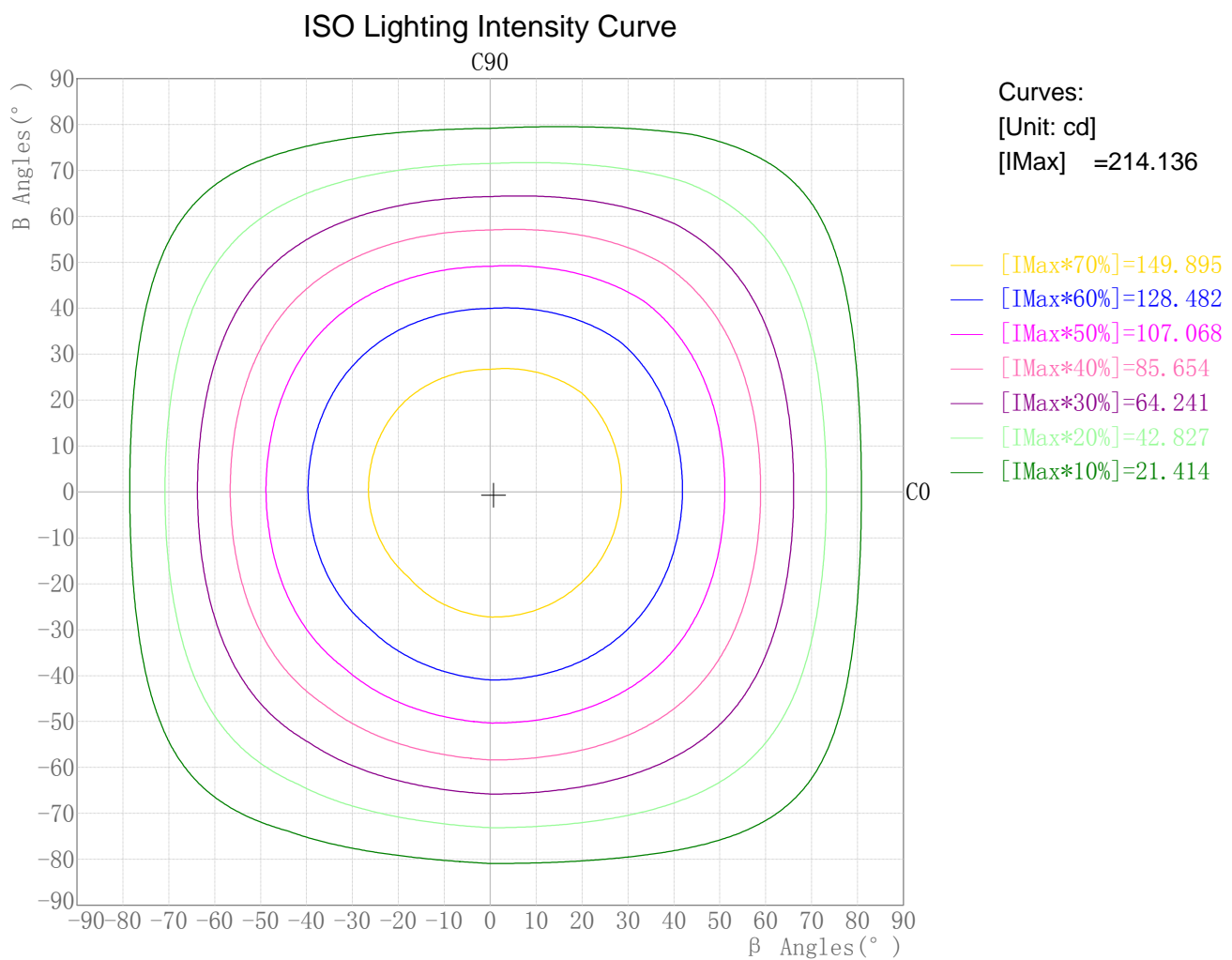
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.07	0.07	0.01	0.01	141.0-142.0	0.09	0.09	0.01	0.01
95.0-96.0	0.08	0.15	0.01	0.02	142.0-143.0	0.09	0.17	0.01	0.03
96.0-97.0	0.08	0.23	0.01	0.03	143.0-144.0	0.08	0.26	0.01	0.04
97.0-98.0	0.08	0.30	0.01	0.05	144.0-145.0	0.08	0.34	0.01	0.05
98.0-99.0	0.08	0.38	0.01	0.06	145.0-146.0	0.08	0.42	0.01	0.06
99.0-100.0	0.08	0.46	0.01	0.07	146.0-147.0	0.08	0.50	0.01	0.08
100.0-101.0	0.08	0.54	0.01	0.08	147.0-148.0	0.08	0.58	0.01	0.09
101.0-102.0	0.08	0.63	0.01	0.09	148.0-149.0	0.08	0.66	0.01	0.10
102.0-103.0	0.08	0.71	0.01	0.11	149.0-150.0	0.08	0.74	0.01	0.11
103.0-104.0	0.09	0.80	0.01	0.12	150.0-151.0	0.08	0.81	0.01	0.12
104.0-105.0	0.09	0.88	0.01	0.13	151.0-152.0	0.07	0.88	0.01	0.13
105.0-106.0	0.09	0.97	0.01	0.15	152.0-153.0	0.07	0.96	0.01	0.14
106.0-107.0	0.09	1.06	0.01	0.16	153.0-154.0	0.07	1.03	0.01	0.16
107.0-108.0	0.09	1.14	0.01	0.17	154.0-155.0	0.07	1.09	0.01	0.17
108.0-109.0	0.09	1.23	0.01	0.19	155.0-156.0	0.07	1.16	0.01	0.18
109.0-110.0	0.09	1.32	0.01	0.20	156.0-157.0	0.06	1.23	0.01	0.19
110.0-111.0	0.09	1.41	0.01	0.21	157.0-158.0	0.06	1.29	0.01	0.19
111.0-112.0	0.09	1.50	0.01	0.23	158.0-159.0	0.06	1.35	0.01	0.20
112.0-113.0	0.09	1.59	0.01	0.24	159.0-160.0	0.06	1.40	0.01	0.21
113.0-114.0	0.09	1.68	0.01	0.25	160.0-161.0	0.05	1.46	0.01	0.22
114.0-115.0	0.09	1.78	0.01	0.27	161.0-162.0	0.05	1.51	0.01	0.23
115.0-116.0	0.09	1.87	0.01	0.28	162.0-163.0	0.05	1.56	0.01	0.24
116.0-117.0	0.09	1.96	0.01	0.30	163.0-164.0	0.05	1.61	0.01	0.24
117.0-118.0	0.09	2.06	0.01	0.31	164.0-165.0	0.05	1.65	0.01	0.25
118.0-119.0	0.09	2.15	0.01	0.33	165.0-166.0	0.04	1.70	0.01	0.26
119.0-120.0	0.09	2.25	0.01	0.34	166.0-167.0	0.04	1.74	0.01	0.26
120.0-121.0	0.09	2.34	0.01	0.35	167.0-168.0	0.04	1.77	0.01	0.27
121.0-122.0	0.10	2.44	0.01	0.37	168.0-169.0	0.03	1.81	0.01	0.27
122.0-123.0	0.10	2.53	0.01	0.38	169.0-170.0	0.03	1.84	0.00	0.28
123.0-124.0	0.10	2.63	0.01	0.40	170.0-171.0	0.03	1.87	0.00	0.28
124.0-125.0	0.10	2.72	0.01	0.41	171.0-172.0	0.03	1.89	0.00	0.29
125.0-126.0	0.10	2.82	0.01	0.43	172.0-173.0	0.02	1.92	0.00	0.29
126.0-127.0	0.09	2.91	0.01	0.44	173.0-174.0	0.02	1.94	0.00	0.29
127.0-128.0	0.09	3.01	0.01	0.45	174.0-175.0	0.02	1.95	0.00	0.30
128.0-129.0	0.09	3.10	0.01	0.47	175.0-176.0	0.01	1.97	0.00	0.30
129.0-130.0	0.09	3.20	0.01	0.48	176.0-177.0	0.01	1.98	0.00	0.30
130.0-131.0	0.09	3.29	0.01	0.50	177.0-178.0	0.01	1.98	0.00	0.30
131.0-132.0	0.09	3.38	0.01	0.51	178.0-179.0	0.00	1.99	0.00	0.30
132.0-133.0	0.09	3.48	0.01	0.53	179.0-180.0	0.00	1.99	0.00	0.30
133.0-134.0	0.09	3.57	0.01	0.54					
134.0-135.0	0.09	3.66	0.01	0.55					
135.0-136.0	0.09	3.75	0.01	0.57					
136.0-137.0	0.09	3.84	0.01	0.58					
137.0-138.0	0.09	3.93	0.01	0.59					
138.0-139.0	0.09	4.02	0.01	0.61					
139.0-140.0	0.09	4.11	0.01	0.62					
140.0-141.0	0.09	4.20	0.01	0.63					

# IES Indoor Report

Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

## Rectangle ISO Lighting Intensity Diagram

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19



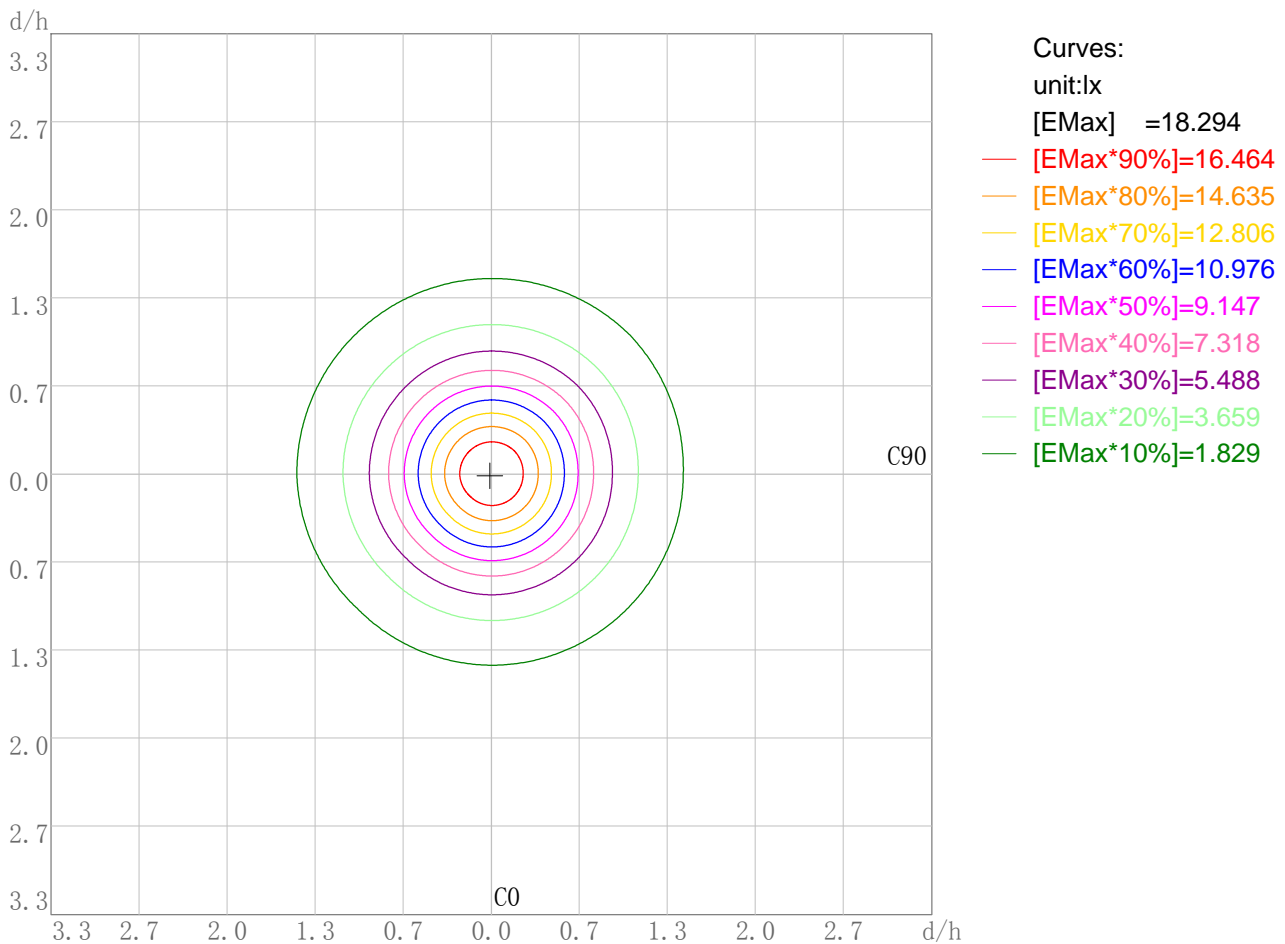
# IES Indoor Report

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## Plane ISO-Illuminance Diagram

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

### Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 18.29

Working Plane Maximum Illuminance Position(d/h):H-0.0 V0.0

# IES Indoor Report

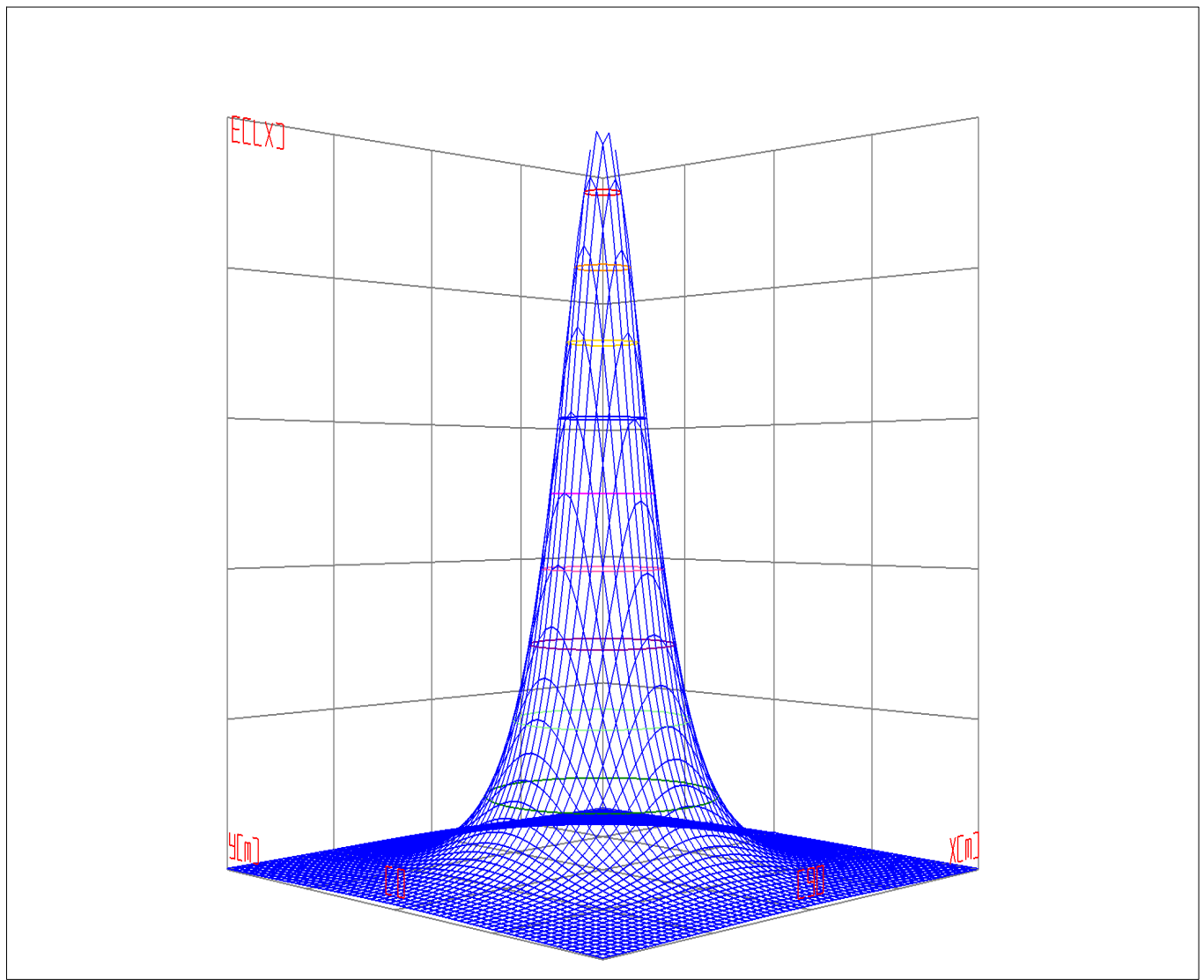
Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

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## 3D Plane ISO Illuminance Diagram

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

### 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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# IES Indoor Report

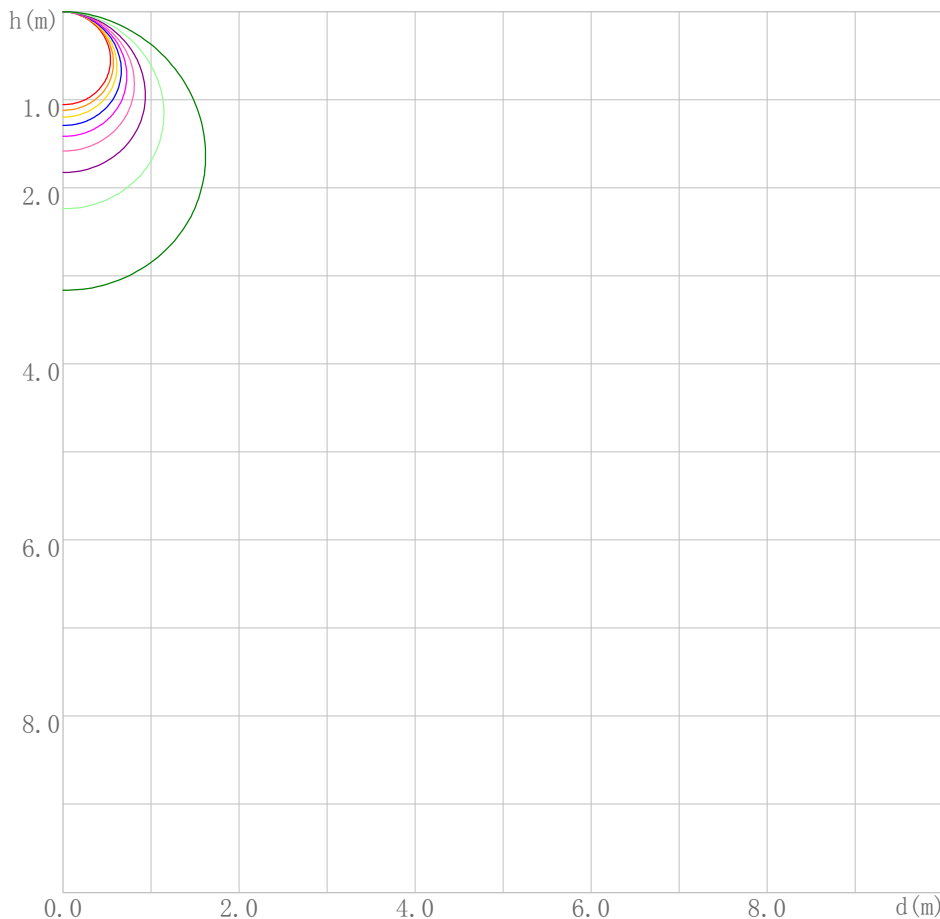
Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

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## Space ISO Illuminance Diagram

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

### Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =213.642

— [EMax\*90%]=192.278

— [EMax\*80%]=170.914

— [EMax\*70%]=149.549

— [EMax\*60%]=128.185

— [EMax\*50%]=106.821

— [EMax\*40%]=85.457

— [EMax\*30%]=64.093

— [EMax\*20%]=42.728

— [EMax\*10%]=21.364

Space Plane Maximum Illuminance and @Angle:213.64lx,0.0deg

Plane Maximum Lighting Intensity and @Angle:213.668cd,0deg

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# IES Indoor Report

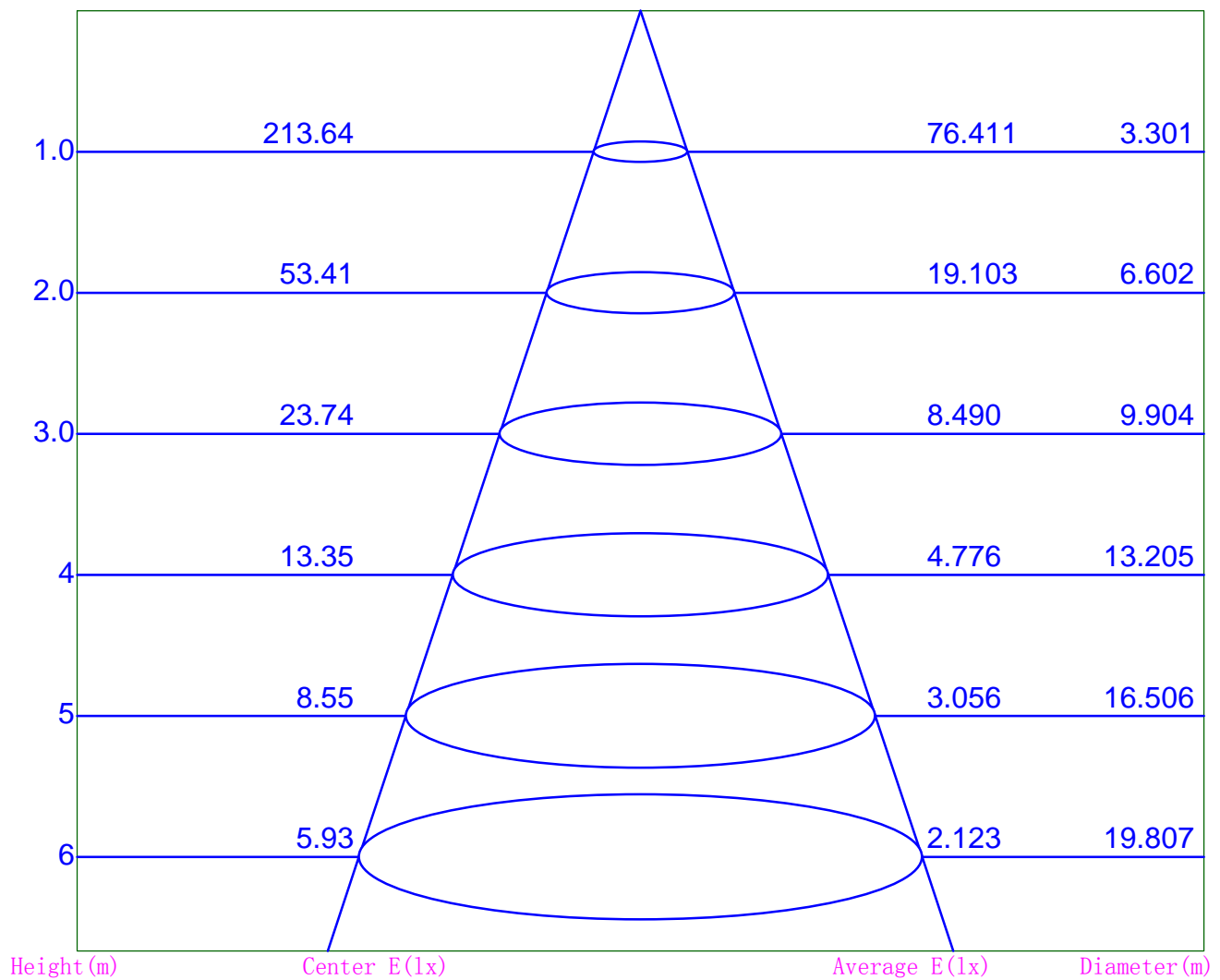
Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

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## Illuminance-Distance Diagram

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

Illuminance-Distance Curve



Beam Angle:117.6

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### Indoor Luminance Limiting Curves

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

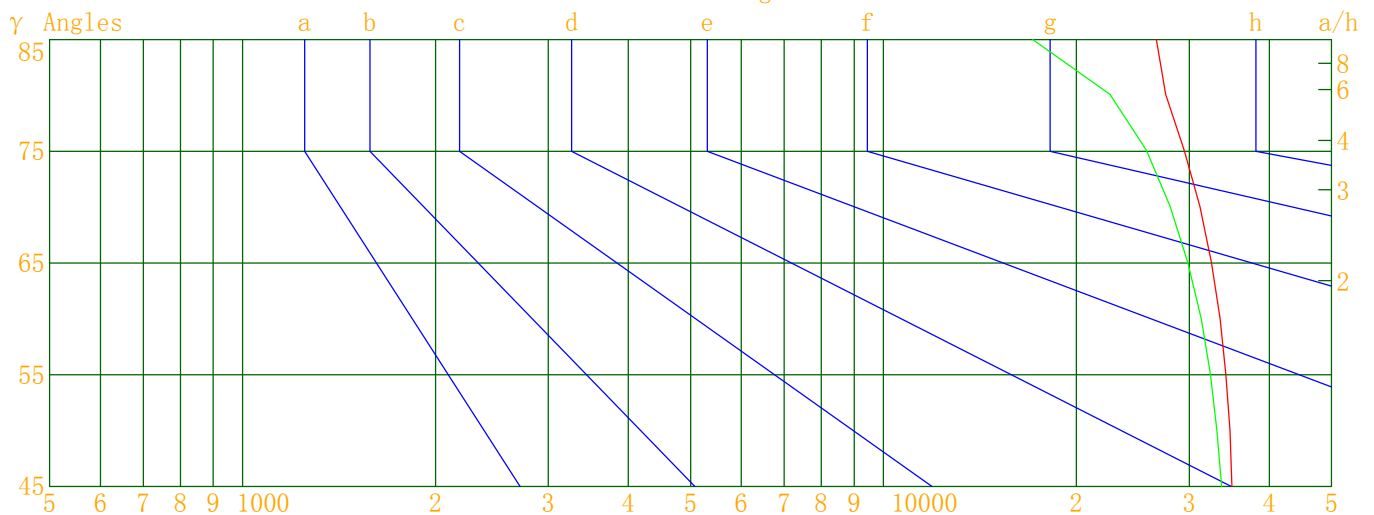
Glare Grade Table

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	34957	34739	34213	33503	32491	31156	29478	27571	26662
C90	33716	33124	32386	31330	29847	28014	25711	22564	17107

Luminance Limiting Curve



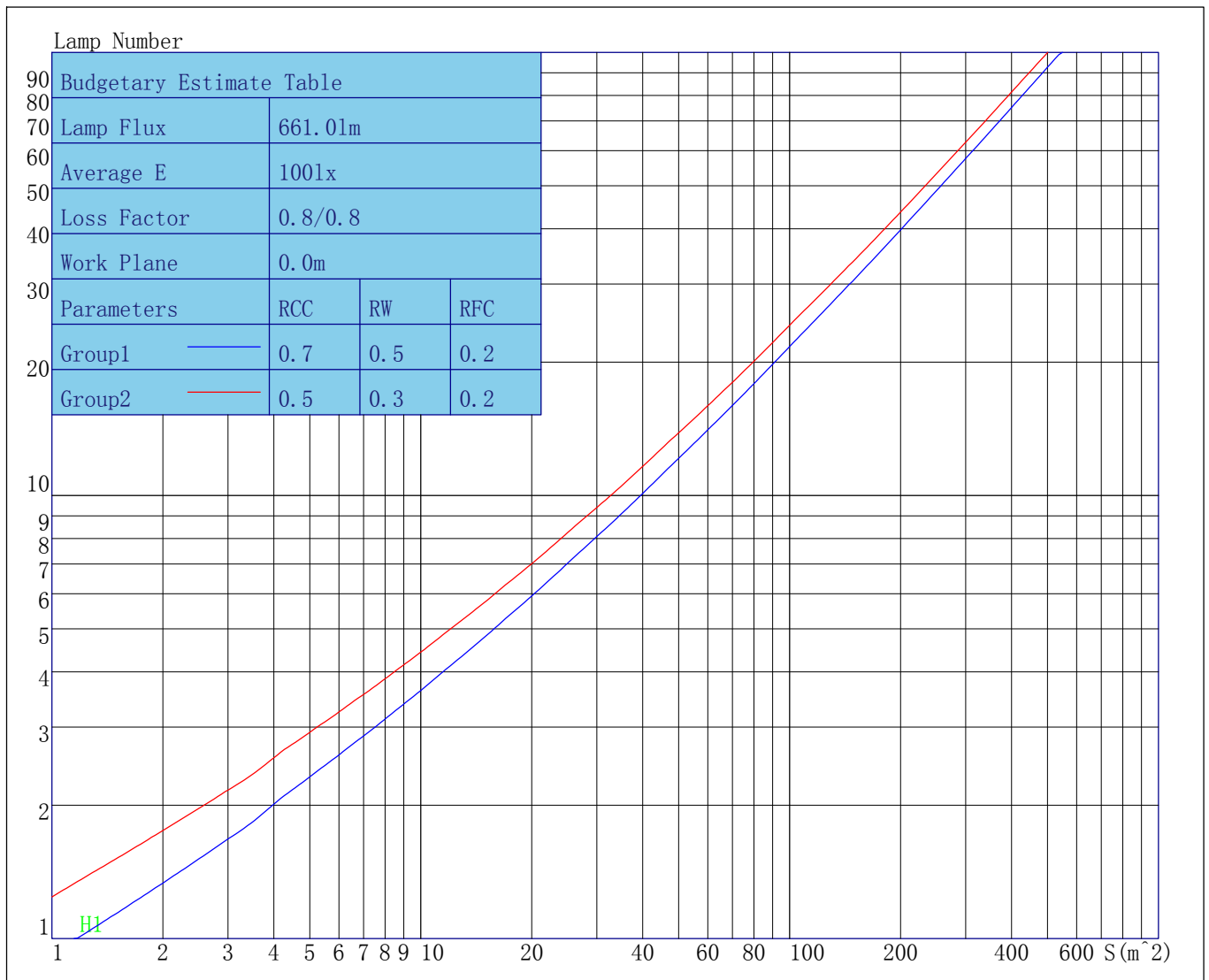
Luminous Size: Length(m)=0.080 Width(m)=0.080 Height(m)=0.000 Area(m<sup>2</sup>)=0.006400  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

# IES Indoor Report

Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

## Indoor Budgetary Estimate Table

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19



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

# IES Indoor Report

Photometric Filename:8742-5CCT-3500K\_IESNA2002.IES

## Indoor Coefficient of Utilization Table

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

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	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	108	103	99	95	105	101	97	93	97	93	90	92	90	87	89	87	85	82			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68			
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57			
4	82	70	61	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49			
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	54	49	44	42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36			
7	64	50	42	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23			

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## Unified Glare Rating Table

Lum. Name: 8742-5CCT-3500K	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED Lamp	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/19

## 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	41.9	46.1	42.6	46.7	47.4	41.5	45.7	42.3	46.4	47.1
Y=3H	46.5	50.8	47.3	51.4	52.1	45.9	50.2	46.7	50.8	51.5
Y=4H	49.2	53.1	50.0	53.8	54.4	48.4	52.3	49.2	53.0	53.6
Y=6H	51.0	54.8	51.7	55.5	56.1	49.9	53.7	50.7	54.4	55.1
Y=8H	51.6	55.4	52.4	56.1	56.7	50.4	54.2	51.2	54.9	55.5
Y=12H	52.1	55.9	52.9	56.6	57.2	50.7	54.5	51.5	55.2	55.8
X=4H Y=2H	43.2	47.1	44.0	47.8	48.4	43.0	46.9	43.8	47.6	48.2
Y=3H	48.2	52.1	48.9	52.7	53.4	47.7	51.6	48.5	52.3	52.9
Y=4H	49.3	52.2	50.3	53.1	53.9	48.7	51.6	49.7	52.5	53.3
Y=6H	51.5	54.3	52.5	55.2	56.1	50.7	53.5	51.7	54.4	55.2
Y=8H	52.4	55.2	53.4	56.1	56.9	51.4	54.2	52.4	55.1	55.9
Y=12H	52.3	54.8	53.4	55.8	56.7	51.0	53.5	52.1	54.5	55.5
X=8H Y=4H	49.6	52.4	50.6	53.3	54.1	49.1	51.8	50.1	52.7	53.6
Y=6H	51.3	53.6	52.4	54.7	55.6	50.5	52.9	51.6	53.9	54.8
Y=8H	51.9	54.1	53.1	55.2	56.2	51.0	53.2	52.1	54.3	55.2
Y=12H	52.9	55.0	54.0	56.1	57.1	51.7	53.8	52.9	54.9	55.9
X=12H Y=4H	48.7	51.2	49.8	52.2	53.2	48.2	50.7	49.3	51.7	52.6
Y=6H	50.8	53.0	52.0	54.1	55.1	50.1	52.3	51.2	53.4	54.4
Y=8H	52.0	54.1	53.1	55.2	56.2	51.1	53.2	52.2	54.3	55.3
Variations with the objerver position at spacings										
S=1.0H	2.5/-0.9					2.5/-0.5				
S=1.5H	-0.9/-18.4					-0.5/-17.8				
S=2.0H	-0.9/-18.4					-0.5/-17.8				

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## Candela Tabulation

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
$\gamma$ 0.0	213.64	213.64	213.64	213.64	213.64	213.64	213.64	213.64
$\gamma$ 1.0	213.67	213.84	213.78	214.07	213.56	213.71	213.86	214.14
$\gamma$ 2.0	213.65	213.73	213.80	213.78	213.54	213.42	213.93	213.85
$\gamma$ 3.0	213.55	213.63	213.77	213.47	213.45	213.08	213.75	213.51
$\gamma$ 4.0	213.54	213.58	213.60	213.21	213.21	212.84	213.47	213.36
$\gamma$ 5.0	213.55	213.51	213.34	213.02	212.87	212.52	213.16	213.24
$\gamma$ 6.0	213.34	213.43	213.02	212.78	212.59	212.12	212.85	213.07
$\gamma$ 7.0	213.02	213.36	212.59	212.68	212.21	211.74	212.56	212.78
$\gamma$ 8.0	212.69	213.26	212.19	212.42	211.91	211.41	212.28	212.41
$\gamma$ 9.0	212.32	212.97	211.86	212.07	211.48	210.96	211.98	212.07
$\gamma$ 10.0	211.86	212.43	211.57	211.56	211.05	210.55	211.69	211.68
$\gamma$ 11.0	211.44	211.91	211.16	210.92	210.56	210.03	211.15	211.16
$\gamma$ 12.0	211.04	211.47	210.51	210.25	209.98	209.36	210.44	210.63
$\gamma$ 13.0	210.55	211.04	209.83	209.60	209.29	208.47	209.86	209.99
$\gamma$ 14.0	210.08	210.53	209.10	209.00	208.58	207.69	209.17	209.34
$\gamma$ 15.0	209.43	209.88	208.29	208.34	207.91	206.87	208.42	208.64
$\gamma$ 16.0	208.60	209.21	207.53	207.52	207.13	206.09	207.75	207.96
$\gamma$ 17.0	207.83	208.61	206.79	206.66	206.21	205.27	206.92	207.26
$\gamma$ 18.0	207.14	207.90	205.85	205.78	205.27	204.35	206.01	206.60
$\gamma$ 19.0	206.40	207.01	204.87	204.78	204.36	203.22	205.01	205.76
$\gamma$ 20.0	205.50	205.98	203.83	203.72	203.38	202.06	203.96	204.68
$\gamma$ 21.0	204.41	205.00	202.73	202.72	202.33	200.89	202.84	203.46
$\gamma$ 22.0	203.23	204.03	201.60	201.53	201.07	199.69	201.82	202.45
$\gamma$ 23.0	202.15	202.94	200.39	200.29	199.80	198.39	200.78	201.45
$\gamma$ 24.0	201.17	201.82	198.99	198.91	198.50	197.04	199.60	200.28
$\gamma$ 25.0	199.97	200.56	197.47	197.48	197.12	195.56	198.32	198.99
$\gamma$ 26.0	198.59	199.32	195.94	196.12	195.66	194.12	196.81	197.56
$\gamma$ 27.0	197.13	197.91	194.38	194.62	194.13	192.54	195.25	195.96
$\gamma$ 28.0	195.68	196.46	192.76	192.89	192.46	190.72	193.62	194.39
$\gamma$ 29.0	194.26	194.92	191.05	191.06	190.74	188.94	192.04	192.82
$\gamma$ 30.0	192.59	193.35	189.33	189.19	188.93	186.98	190.49	191.32
$\gamma$ 31.0	190.92	191.58	187.49	187.21	187.13	184.99	188.77	189.72
$\gamma$ 32.0	189.18	189.75	185.56	185.28	185.22	182.91	186.95	187.97
$\gamma$ 33.0	187.23	187.81	183.48	183.27	183.04	180.83	185.04	185.99
$\gamma$ 34.0	185.28	185.90	181.23	181.19	180.86	178.76	182.97	183.92
$\gamma$ 35.0	183.18	183.98	178.97	178.92	178.71	176.62	180.74	181.75
$\gamma$ 36.0	181.10	181.93	176.68	176.49	176.33	174.29	178.52	179.56
$\gamma$ 37.0	178.85	179.84	174.30	174.11	173.85	171.81	176.28	177.36
$\gamma$ 38.0	176.51	177.49	171.94	171.65	171.44	169.26	174.02	175.15
$\gamma$ 39.0	174.23	175.02	169.47	169.10	168.96	166.58	171.68	172.83
$\gamma$ 40.0	171.87	172.55	166.88	166.39	166.13	163.84	169.36	170.33
$\gamma$ 41.0	169.36	170.04	164.11	163.58	163.28	161.06	166.89	167.71
$\gamma$ 42.0	166.74	167.53	161.29	160.77	160.43	158.29	164.25	165.05
$\gamma$ 43.0	163.93	164.85	158.31	157.95	157.65	155.45	161.43	162.30
$\gamma$ 44.0	161.03	162.03	155.49	154.92	154.83	152.48	158.59	159.55
$\gamma$ 45.0	158.20	159.22	152.58	151.77	151.87	149.33	155.73	156.68
$\gamma$ 46.0	155.27	156.30	149.53	148.71	148.71	146.13	152.85	153.79

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## Candela Tabulation - (Cont.)

V/H	C0. 0	C45. 0	C90. 0	C135. 0	C180. 0	C225. 0	C270. 0	C315. 0
$\gamma$ 47. 0	152. 37	153. 11	146. 28	145. 53	145. 34	143. 00	149. 82	150. 83
$\gamma$ 48. 0	149. 36	149. 95	142. 93	142. 35	142. 04	139. 80	146. 69	147. 85
$\gamma$ 49. 0	146. 16	146. 83	139. 59	138. 92	138. 62	136. 47	143. 45	144. 69
$\gamma$ 50. 0	142. 91	143. 62	136. 27	135. 45	135. 15	133. 15	140. 23	141. 43
$\gamma$ 51. 0	139. 55	140. 36	132. 95	132. 00	131. 75	129. 74	137. 05	138. 09
$\gamma$ 52. 0	136. 15	137. 05	129. 54	128. 53	128. 35	126. 23	133. 81	134. 77
$\gamma$ 53. 0	132. 64	133. 65	126. 05	124. 96	124. 81	122. 59	130. 42	131. 34
$\gamma$ 54. 0	129. 18	130. 21	122. 49	121. 24	121. 17	118. 90	127. 05	127. 84
$\gamma$ 55. 0	125. 59	126. 71	118. 88	117. 60	117. 39	115. 39	123. 60	124. 35
$\gamma$ 56. 0	122. 08	123. 04	115. 15	113. 96	113. 66	111. 72	120. 08	120. 80
$\gamma$ 57. 0	118. 40	119. 35	111. 44	110. 27	109. 99	108. 15	116. 34	117. 21
$\gamma$ 58. 0	114. 67	115. 75	107. 78	106. 43	106. 16	104. 32	112. 62	113. 67
$\gamma$ 59. 0	110. 95	112. 05	104. 05	102. 49	102. 31	100. 45	109. 03	109. 93
$\gamma$ 60. 0	107. 21	108. 26	100. 26	98. 71	98. 40	96. 68	105. 39	106. 11
$\gamma$ 61. 0	103. 43	104. 60	96. 45	94. 85	94. 59	92. 92	101. 74	102. 38
$\gamma$ 62. 0	99. 53	100. 85	92. 52	90. 92	90. 57	89. 06	97. 92	98. 71
$\gamma$ 63. 0	95. 65	97. 06	88. 58	86. 97	86. 55	85. 11	94. 22	94. 87
$\gamma$ 64. 0	91. 77	93. 09	84. 66	83. 04	82. 54	81. 24	90. 43	90. 96
$\gamma$ 65. 0	87. 88	89. 09	80. 73	79. 24	78. 53	77. 44	86. 61	87. 03
$\gamma$ 66. 0	83. 88	85. 08	76. 88	75. 32	74. 54	73. 61	82. 67	83. 11
$\gamma$ 67. 0	79. 90	81. 09	73. 06	71. 33	70. 65	69. 71	78. 79	79. 29
$\gamma$ 68. 0	76. 00	77. 23	69. 17	67. 44	66. 72	65. 91	75. 05	75. 46
$\gamma$ 69. 0	72. 15	73. 31	65. 22	63. 53	62. 79	62. 10	71. 29	71. 47
$\gamma$ 70. 0	68. 20	69. 49	61. 32	59. 71	58. 89	58. 36	67. 55	67. 56
$\gamma$ 71. 0	64. 17	65. 64	57. 56	55. 81	55. 03	54. 52	63. 67	63. 79
$\gamma$ 72. 0	60. 32	61. 78	53. 78	51. 95	51. 19	50. 73	59. 89	59. 98
$\gamma$ 73. 0	56. 51	57. 88	50. 01	48. 19	47. 44	47. 02	56. 12	56. 15
$\gamma$ 74. 0	52. 65	54. 03	46. 29	44. 47	43. 72	43. 39	52. 36	52. 40
$\gamma$ 75. 0	48. 83	50. 24	42. 59	40. 75	40. 00	39. 77	48. 65	48. 72
$\gamma$ 76. 0	45. 15	46. 50	38. 97	37. 13	36. 39	36. 18	45. 06	45. 06
$\gamma$ 77. 0	41. 46	42. 86	35. 42	33. 62	32. 95	32. 73	41. 48	41. 48
$\gamma$ 78. 0	37. 78	39. 19	31. 82	30. 24	29. 51	29. 39	37. 91	37. 86
$\gamma$ 79. 0	34. 16	35. 62	28. 39	26. 87	26. 16	26. 08	34. 41	34. 35
$\gamma$ 80. 0	30. 64	32. 17	25. 08	23. 56	22. 93	22. 79	30. 91	30. 97
$\gamma$ 81. 0	27. 27	28. 77	21. 83	20. 38	19. 85	19. 72	27. 55	27. 60
$\gamma$ 82. 0	24. 04	25. 41	18. 63	17. 26	16. 82	16. 72	24. 30	24. 36
$\gamma$ 83. 0	20. 86	22. 10	15. 46	14. 30	13. 88	13. 81	21. 13	21. 16
$\gamma$ 84. 0	17. 80	19. 01	12. 44	11. 48	11. 09	11. 00	18. 00	18. 12
$\gamma$ 85. 0	14. 87	15. 94	9. 54	8. 68	8. 50	8. 25	14. 98	15. 20
$\gamma$ 86. 0	12. 09	13. 03	6. 77	6. 02	6. 05	5. 68	12. 06	12. 38
$\gamma$ 87. 0	9. 41	10. 13	4. 06	3. 50	3. 64	3. 25	9. 30	9. 59
$\gamma$ 88. 0	6. 86	7. 41	1. 16	0. 97	1. 01	0. 99	6. 63	7. 01
$\gamma$ 89. 0	4. 45	4. 80	0. 52	0. 91	0. 55	0. 53	4. 04	4. 56
$\gamma$ 90. 0	1. 79	2. 07	0. 52	0. 83	0. 56	0. 53	1. 47	2. 07
$\gamma$ 91. 0	0. 79	0. 77	0. 53	0. 77	0. 56	0. 53	0. 79	0. 81
$\gamma$ 92. 0	0. 79	0. 75	0. 55	0. 70	0. 57	0. 53	0. 78	0. 81
$\gamma$ 93. 0	0. 79	0. 77	0. 56	0. 64	0. 58	0. 55	0. 78	0. 81

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## Candela Tabulation - (Cont.)

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
$\gamma$ 94.0	0.79	0.77	0.57	0.56	0.60	0.56	0.79	0.81
$\gamma$ 95.0	0.79	0.78	0.57	0.57	0.61	0.57	0.79	0.82
$\gamma$ 96.0	0.79	0.79	0.58	0.58	0.61	0.58	0.79	0.82
$\gamma$ 97.0	0.81	0.81	0.60	0.60	0.64	0.60	0.81	0.83
$\gamma$ 98.0	0.82	0.82	0.61	0.61	0.66	0.61	0.81	0.83
$\gamma$ 99.0	0.82	0.83	0.62	0.62	0.68	0.62	0.82	0.84
$\gamma$ 100.0	0.83	0.84	0.64	0.62	0.69	0.64	0.83	0.86
$\gamma$ 101.0	0.84	0.84	0.65	0.65	0.70	0.65	0.84	0.87
$\gamma$ 102.0	0.86	0.86	0.66	0.65	0.79	0.66	0.86	0.87
$\gamma$ 103.0	0.87	0.87	0.68	0.68	0.87	0.68	0.87	0.88
$\gamma$ 104.0	0.88	0.88	0.69	0.68	0.84	0.69	0.88	0.90
$\gamma$ 105.0	0.90	0.90	0.70	0.69	0.77	0.70	0.90	0.91
$\gamma$ 106.0	0.91	0.91	0.71	0.70	0.77	0.71	0.91	0.92
$\gamma$ 107.0	0.92	0.92	0.73	0.71	0.77	0.73	0.92	0.94
$\gamma$ 108.0	0.94	0.94	0.74	0.73	0.77	0.74	0.94	0.95
$\gamma$ 109.0	0.95	0.95	0.75	0.74	0.78	0.75	0.95	0.96
$\gamma$ 110.0	0.96	0.96	0.77	0.77	0.79	0.77	0.96	0.97
$\gamma$ 111.0	0.97	0.97	0.78	0.77	0.79	0.78	0.97	0.99
$\gamma$ 112.0	0.99	0.99	0.79	0.78	0.82	0.79	1.00	1.00
$\gamma$ 113.0	1.00	1.00	0.81	0.79	0.83	0.81	1.00	1.01
$\gamma$ 114.0	1.01	1.01	0.82	0.81	0.84	0.82	1.03	1.03
$\gamma$ 115.0	1.03	1.03	0.83	0.82	0.86	0.83	1.03	1.04
$\gamma$ 116.0	1.04	1.04	0.84	0.83	0.87	0.84	1.05	1.05
$\gamma$ 117.0	1.05	1.05	0.86	0.84	0.88	0.86	1.05	1.07
$\gamma$ 118.0	1.07	1.07	0.87	0.86	0.90	0.87	1.07	1.08
$\gamma$ 119.0	1.08	1.08	0.88	0.88	0.91	0.88	1.08	1.09
$\gamma$ 120.0	1.09	1.09	0.90	0.88	0.92	0.90	1.09	1.11
$\gamma$ 121.0	1.11	1.11	0.91	0.91	0.94	0.91	1.11	1.12
$\gamma$ 122.0	1.12	1.12	0.92	0.91	0.95	0.92	1.12	1.13
$\gamma$ 123.0	1.13	1.12	0.94	0.92	0.96	0.94	1.13	1.14
$\gamma$ 124.0	1.14	1.13	0.95	0.94	0.97	0.95	1.14	1.14
$\gamma$ 125.0	1.14	1.14	0.96	0.95	0.99	0.96	1.16	1.16
$\gamma$ 126.0	1.17	1.16	0.97	0.96	1.00	0.97	1.17	1.17
$\gamma$ 127.0	1.17	1.17	0.99	0.97	1.01	0.99	1.17	1.18
$\gamma$ 128.0	1.18	1.18	1.00	1.00	1.03	1.00	1.18	1.20
$\gamma$ 129.0	1.20	1.20	1.01	1.01	1.04	1.01	1.20	1.21
$\gamma$ 130.0	1.21	1.21	1.03	1.01	1.05	1.03	1.21	1.22
$\gamma$ 131.0	1.22	1.22	1.04	1.03	1.07	1.05	1.22	1.23
$\gamma$ 132.0	1.23	1.23	1.05	1.05	1.07	1.05	1.23	1.23
$\gamma$ 133.0	1.23	1.23	1.07	1.05	1.08	1.07	1.23	1.25
$\gamma$ 134.0	1.25	1.25	1.08	1.07	1.09	1.08	1.25	1.26
$\gamma$ 135.0	1.26	1.26	1.11	1.08	1.11	1.09	1.26	1.27
$\gamma$ 136.0	1.27	1.27	1.12	1.09	1.13	1.11	1.27	1.27
$\gamma$ 137.0	1.29	1.29	1.13	1.11	1.14	1.12	1.29	1.29
$\gamma$ 138.0	1.29	1.30	1.14	1.13	1.16	1.14	1.30	1.30
$\gamma$ 139.0	1.30	1.31	1.16	1.14	1.17	1.16	1.30	1.31
$\gamma$ 140.0	1.31	1.31	1.17	1.16	1.18	1.17	1.31	1.33

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