IES Indoor Report

Photometric Filename:HCP-1022202+HCP-1032202 5000K 24D.IES

Indoor Luminaire Photometric Data

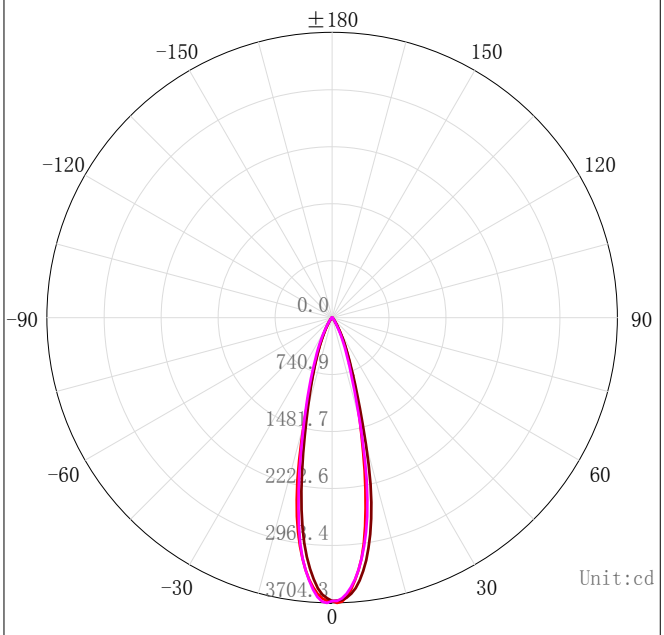
Description Information

Luminary Name: HCP-1022202+HCP-1032202 5000K 24D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2020/11/24
Manufacture: Havit Commercial		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: Quality Department		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.000m*0.000m*0.000m		Lum.Area(m2):0.000	Lum.W(kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp.(℃): 25	Humidity(%): 50.0

Character Parameter

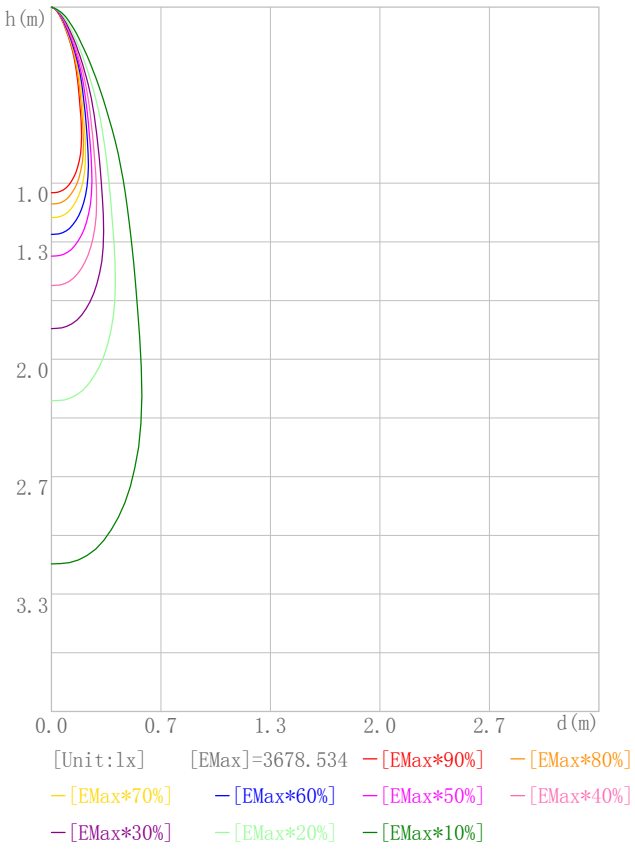
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 940.570	Luminary Flux(lm): 940.567	Field Angle(10%Imax): 49.3(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 940.567lm 100.00%
Rated Voltage(V):	Luminary EER(lm/W): 64.867	Up Lumens&Percent: 0.000lm 0.00%
Tested Power(W): 14.500	Max.Candela(cd): 3704.287	S/MH: C0_a180=0.447 C90_270=0.442
Lamps' Inside: 1	Max Cand@Ang.(°): C=270.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):240.1,0.062,0.965	Beam Angle(50%Imax): 25.9(°)	ErP Φuse(90°): 905.016lm
Lamp Size(W*L*H):0.000m*0.000m*0.000m	Left=-13.2° ,Right=12.8°	IRF(%): 777.709

C Plane Distribution Diagram



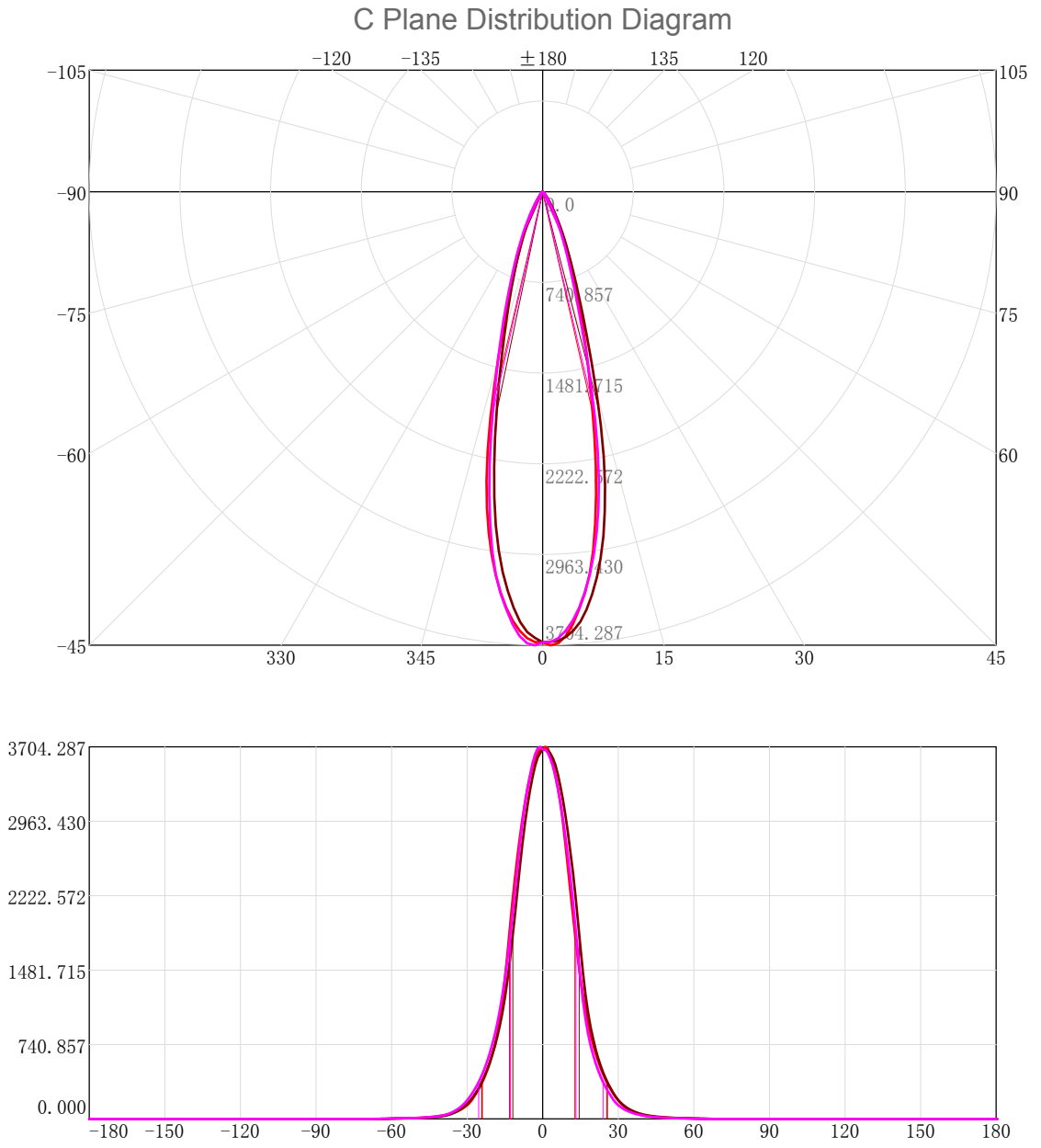
C Plane	[50%MaxAng.]	[10%MaxAng.]
C270.0_90.0 :	25.9	49.3
C0.0_180.0 :	26.3	49.9
C90.0_270.0 :	25.9	49.3

C0 Space ISO Illuminance Curve



2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

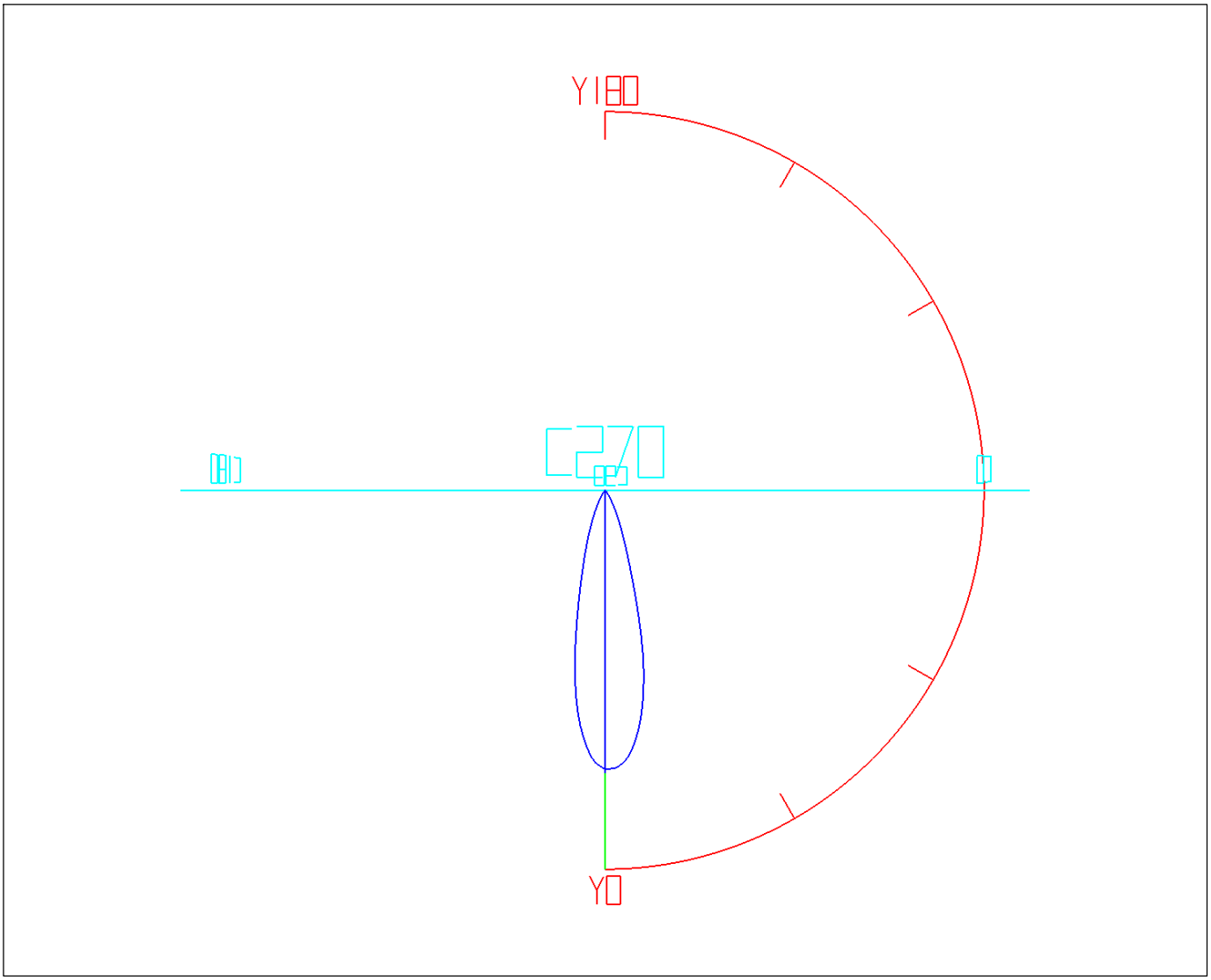


C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C270.0_90.0 :	25.9	49.3	
C0.0_180.0 :	26.3	49.9	
C90.0_270.0 :	25.9	49.3	

3D Light Intensity Distribution Modal

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

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	3.52	3.52	0.37	0.37	47.0-48.0	1.17	930.22	0.12	98.90
1.0-2.0	10.51	14.03	1.12	1.49	48.0-49.0	1.07	931.29	0.11	99.01
2.0-3.0	17.33	31.36	1.84	3.33	49.0-50.0	0.98	932.27	0.10	99.12
3.0-4.0	23.79	55.15	2.53	5.86	50.0-51.0	0.91	933.17	0.10	99.21
4.0-5.0	29.77	84.92	3.16	9.03	51.0-52.0	0.85	934.02	0.09	99.30
5.0-6.0	35.18	120.10	3.74	12.77	52.0-53.0	0.80	934.82	0.08	99.39
6.0-7.0	39.89	159.98	4.24	17.01	53.0-54.0	0.74	935.56	0.08	99.47
7.0-8.0	43.74	203.73	4.65	21.66	54.0-55.0	0.69	936.25	0.07	99.54
8.0-9.0	46.61	250.33	4.95	26.61	55.0-56.0	0.64	936.90	0.07	99.61
9.0-10.0	48.39	298.72	5.14	31.76	56.0-57.0	0.60	937.49	0.06	99.67
10.0-11.0	49.08	347.80	5.22	36.98	57.0-58.0	0.55	938.04	0.06	99.73
11.0-12.0	48.69	396.49	5.18	42.15	58.0-59.0	0.50	938.54	0.05	99.78
12.0-13.0	47.26	443.76	5.02	47.18	59.0-60.0	0.45	939.00	0.05	99.83
13.0-14.0	44.99	488.74	4.78	51.96	60.0-61.0	0.40	939.40	0.04	99.88
14.0-15.0	42.11	530.85	4.48	56.44	61.0-62.0	0.34	939.74	0.04	99.91
15.0-16.0	38.90	569.75	4.14	60.58	62.0-63.0	0.27	940.01	0.03	99.94
16.0-17.0	35.71	605.46	3.80	64.37	63.0-64.0	0.21	940.22	0.02	99.96
17.0-18.0	32.77	638.24	3.48	67.86	64.0-65.0	0.15	940.37	0.02	99.98
18.0-19.0	30.11	668.34	3.20	71.06	65.0-66.0	0.10	940.47	0.01	99.99
19.0-20.0	27.66	696.01	2.94	74.00	66.0-67.0	0.06	940.53	0.01	100.00
20.0-21.0	25.39	721.40	2.70	76.70	67.0-68.0	0.03	940.56	0.00	100.00
21.0-22.0	23.26	744.66	2.47	79.17	68.0-69.0	0.01	940.57	0.00	100.00
22.0-23.0	21.27	765.93	2.26	81.43	69.0-70.0	0.00	940.57	0.00	100.00
23.0-24.0	19.37	785.30	2.06	83.49	70.0-71.0	0.00	940.57	0.00	100.00
24.0-25.0	17.56	802.86	1.87	85.36	71.0-72.0	0.00	940.57	0.00	100.00
25.0-26.0	15.83	818.68	1.68	87.04	72.0-73.0	0.00	940.57	0.00	100.00
26.0-27.0	14.15	832.84	1.50	88.55	73.0-74.0	0.00	940.57	0.00	100.00
27.0-28.0	12.55	845.38	1.33	89.88	74.0-75.0	0.00	940.57	0.00	100.00
28.0-29.0	11.03	856.42	1.17	91.05	75.0-76.0	0.00	940.57	0.00	100.00
29.0-30.0	9.69	866.10	1.03	92.08	76.0-77.0	0.00	940.57	0.00	100.00
30.0-31.0	8.51	874.62	0.90	92.99	77.0-78.0	0.00	940.57	0.00	100.00
31.0-32.0	7.48	882.09	0.79	93.78	78.0-79.0	0.00	940.57	0.00	100.00
32.0-33.0	6.55	888.64	0.70	94.48	79.0-80.0	0.00	940.57	0.00	100.00
33.0-34.0	5.74	894.39	0.61	95.09	80.0-81.0	0.00	940.57	0.00	100.00
34.0-35.0	5.03	899.42	0.53	95.62	81.0-82.0	0.00	940.57	0.00	100.00
35.0-36.0	4.40	903.82	0.47	96.09	82.0-83.0	0.00	940.57	0.00	100.00
36.0-37.0	3.84	907.66	0.41	96.50	83.0-84.0	0.00	940.57	0.00	100.00
37.0-38.0	3.37	911.03	0.36	96.86	84.0-85.0	0.00	940.57	0.00	100.00
38.0-39.0	2.96	913.99	0.32	97.17	85.0-86.0	0.00	940.57	0.00	100.00
39.0-40.0	2.63	916.62	0.28	97.45	86.0-87.0	0.00	940.57	0.00	100.00
40.0-41.0	2.35	918.97	0.25	97.70	87.0-88.0	0.00	940.57	0.00	100.00
41.0-42.0	2.11	921.08	0.22	97.93	88.0-89.0	0.00	940.57	0.00	100.00
42.0-43.0	1.91	922.99	0.20	98.13	89.0-90.0	0.00	940.57	0.00	100.00
43.0-44.0	1.74	924.73	0.18	98.32	90.0-91.0	0.00	940.57	0.00	100.00
44.0-45.0	1.58	926.31	0.17	98.48	91.0-92.0	0.00	940.57	0.00	100.00
45.0-46.0	1.44	927.75	0.15	98.64	92.0-93.0	0.00	940.57	0.00	100.00
46.0-47.0	1.30	929.05	0.14	98.78	93.0-94.0	0.00	940.57	0.00	100.00

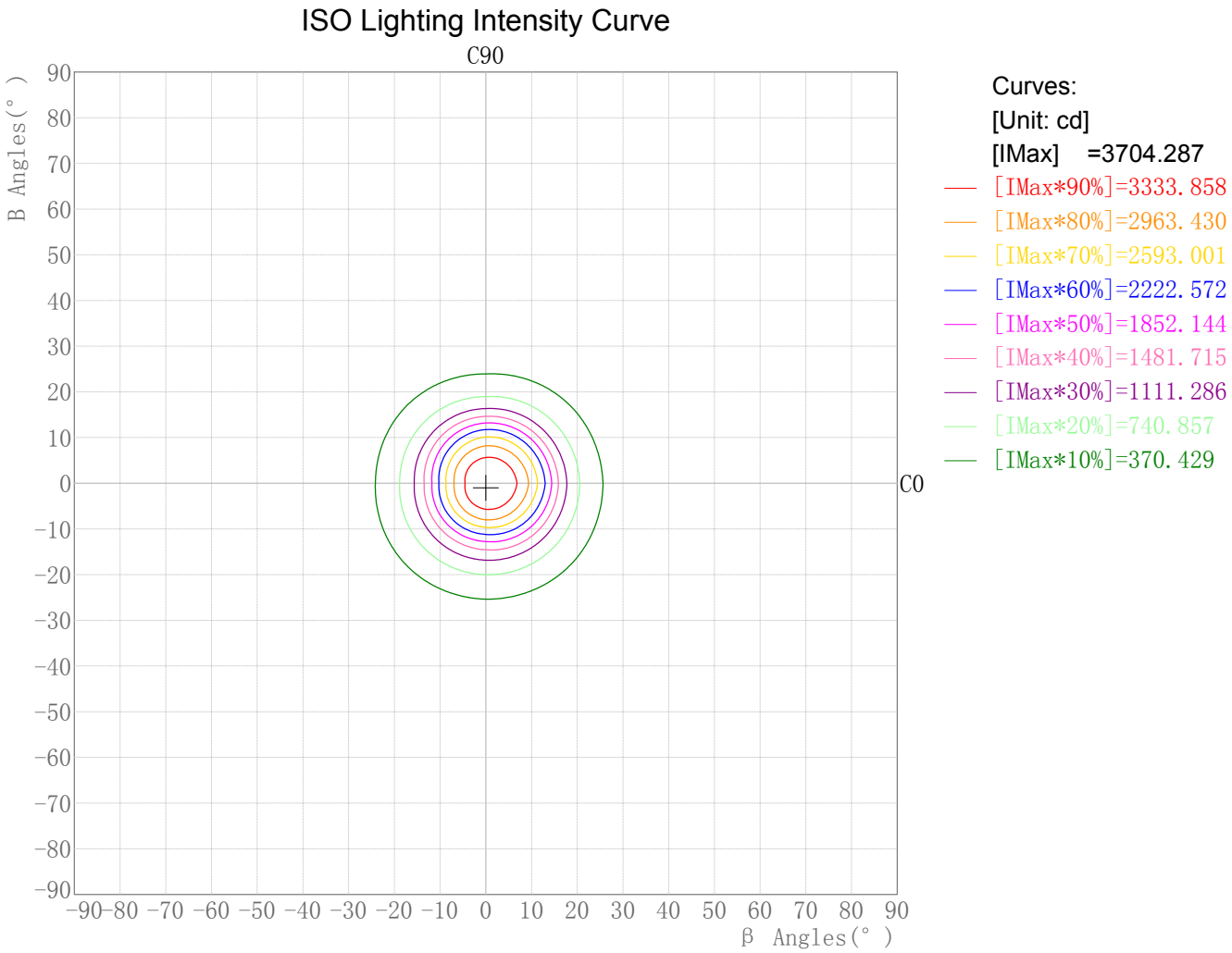
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.00	940.57	0.00	100.00
95.0-96.0	0.00	940.57	0.00	100.00
96.0-97.0	0.00	940.57	0.00	100.00
97.0-98.0	0.00	940.57	0.00	100.00
98.0-99.0	0.00	940.57	0.00	100.00
99.0-100.0	0.00	940.57	0.00	100.00
100.0-101.0	0.00	940.57	0.00	100.00
101.0-102.0	0.00	940.57	0.00	100.00
102.0-103.0	0.00	940.57	0.00	100.00
103.0-104.0	0.00	940.57	0.00	100.00
104.0-105.0	0.00	940.57	0.00	100.00
105.0-106.0	0.00	940.57	0.00	100.00
106.0-107.0	0.00	940.57	0.00	100.00
107.0-108.0	0.00	940.57	0.00	100.00
108.0-109.0	0.00	940.57	0.00	100.00
109.0-110.0	0.00	940.57	0.00	100.00
110.0-111.0	0.00	940.57	0.00	100.00
111.0-112.0	0.00	940.57	0.00	100.00
112.0-113.0	0.00	940.57	0.00	100.00
113.0-114.0	0.00	940.57	0.00	100.00
114.0-115.0	0.00	940.57	0.00	100.00
115.0-116.0	0.00	940.57	0.00	100.00
116.0-117.0	0.00	940.57	0.00	100.00
117.0-118.0	0.00	940.57	0.00	100.00
118.0-119.0	0.00	940.57	0.00	100.00
119.0-120.0	0.00	940.57	0.00	100.00
120.0-121.0	0.00	940.57	0.00	100.00
121.0-122.0	0.00	940.57	0.00	100.00
122.0-123.0	0.00	940.57	0.00	100.00
123.0-124.0	0.00	940.57	0.00	100.00
124.0-125.0	0.00	940.57	0.00	100.00
125.0-126.0	0.00	940.57	0.00	100.00
126.0-127.0	0.00	940.57	0.00	100.00
127.0-128.0	0.00	940.57	0.00	100.00
128.0-129.0	0.00	940.57	0.00	100.00
129.0-130.0	0.00	940.57	0.00	100.00
130.0-131.0	0.00	940.57	0.00	100.00
131.0-132.0	0.00	940.57	0.00	100.00
132.0-133.0	0.00	940.57	0.00	100.00
133.0-134.0	0.00	940.57	0.00	100.00
134.0-135.0	0.00	940.57	0.00	100.00
135.0-136.0	0.00	940.57	0.00	100.00
136.0-137.0	0.00	940.57	0.00	100.00
137.0-138.0	0.00	940.57	0.00	100.00
138.0-139.0	0.00	940.57	0.00	100.00
139.0-140.0	0.00	940.57	0.00	100.00
140.0-141.0	0.00	940.57	0.00	100.00

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
141.0-142.0	0.00	940.57	0.00	100.00
142.0-143.0	0.00	940.57	0.00	100.00
143.0-144.0	0.00	940.57	0.00	100.00
144.0-145.0	0.00	940.57	0.00	100.00
145.0-146.0	0.00	940.57	0.00	100.00
146.0-147.0	0.00	940.57	0.00	100.00
147.0-148.0	0.00	940.57	0.00	100.00
148.0-149.0	0.00	940.57	0.00	100.00
149.0-150.0	0.00	940.57	0.00	100.00
150.0-151.0	0.00	940.57	0.00	100.00
151.0-152.0	0.00	940.57	0.00	100.00
152.0-153.0	0.00	940.57	0.00	100.00
153.0-154.0	0.00	940.57	0.00	100.00
154.0-155.0	0.00	940.57	0.00	100.00
155.0-156.0	0.00	940.57	0.00	100.00
156.0-157.0	0.00	940.57	0.00	100.00
157.0-158.0	0.00	940.57	0.00	100.00
158.0-159.0	0.00	940.57	0.00	100.00
159.0-160.0	0.00	940.57	0.00	100.00
160.0-161.0	0.00	940.57	0.00	100.00
161.0-162.0	0.00	940.57	0.00	100.00
162.0-163.0	0.00	940.57	0.00	100.00
163.0-164.0	0.00	940.57	0.00	100.00
164.0-165.0	0.00	940.57	0.00	100.00
165.0-166.0	0.00	940.57	0.00	100.00
166.0-167.0	0.00	940.57	0.00	100.00
167.0-168.0	0.00	940.57	0.00	100.00
168.0-169.0	0.00	940.57	0.00	100.00
169.0-170.0	0.00	940.57	0.00	100.00
170.0-171.0	0.00	940.57	0.00	100.00
171.0-172.0	0.00	940.57	0.00	100.00
172.0-173.0	0.00	940.57	0.00	100.00
173.0-174.0	0.00	940.57	0.00	100.00
174.0-175.0	0.00	940.57	0.00	100.00
175.0-176.0	0.00	940.57	0.00	100.00
176.0-177.0	0.00	940.57	0.00	100.00
177.0-178.0	0.00	940.57	0.00	100.00
178.0-179.0	0.00	940.57	0.00	100.00
179.0-180.0	0.00	940.57	0.00	100.00

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

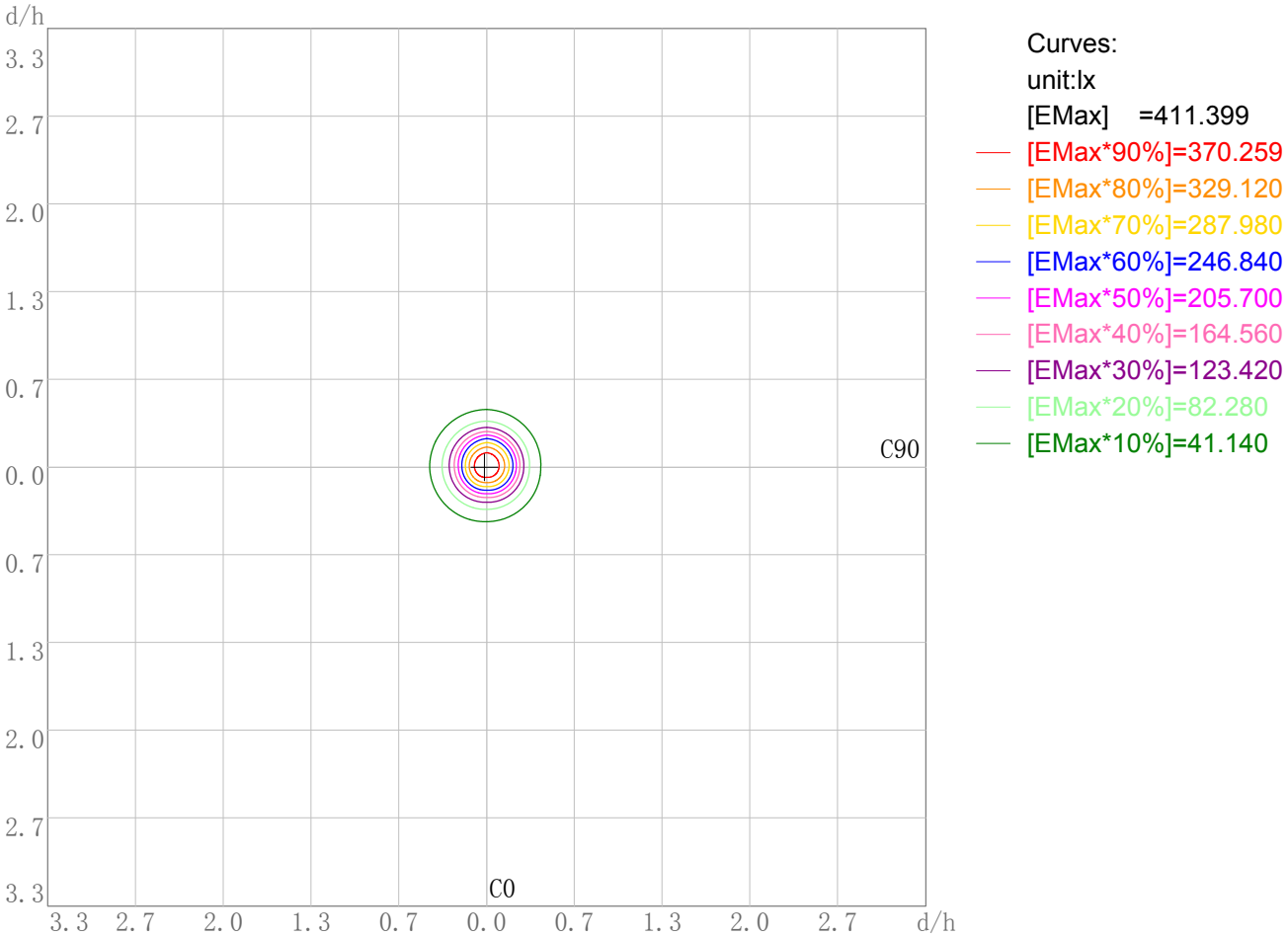


Maximum Light Intensity(cd): 3704.29
Maximum Cand.@Angle: H=-0.0°,V=-1.0°

Plane ISO-Illuminance Diagram

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

Plane ISO-Illuminance Curve

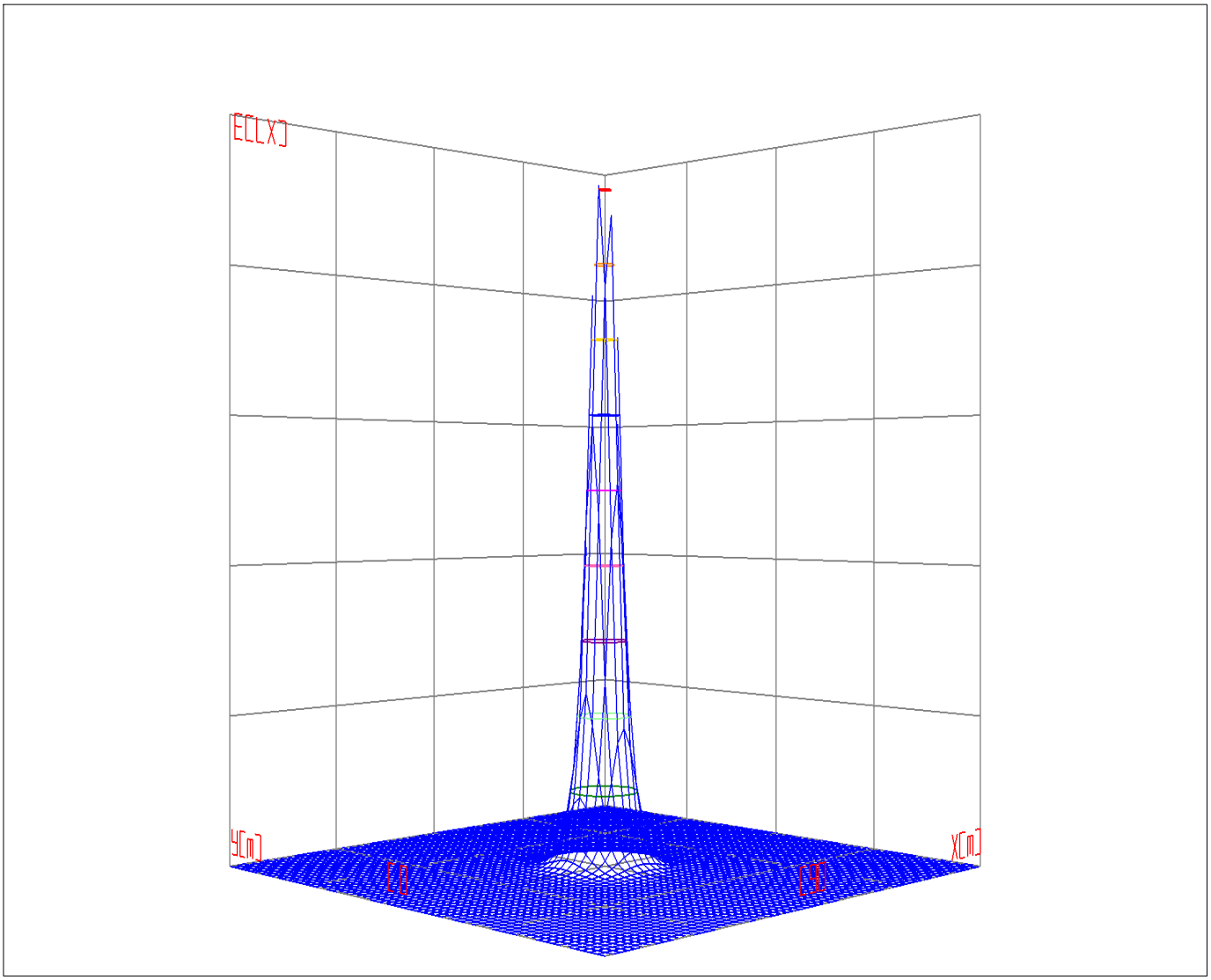


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 411.40
Working Plane Maximum Illuminance Position(d/h):H-0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

3D Plane Illuminance Modal

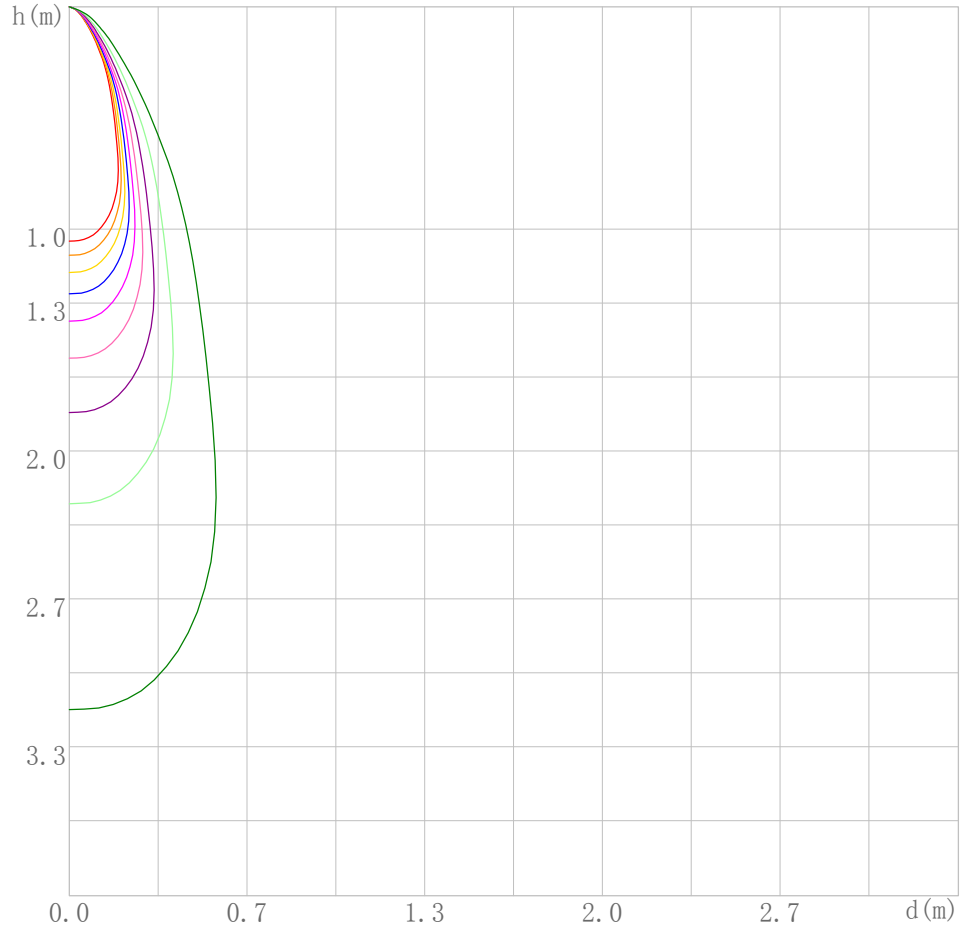


Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

Space ISO Illuminance Curve



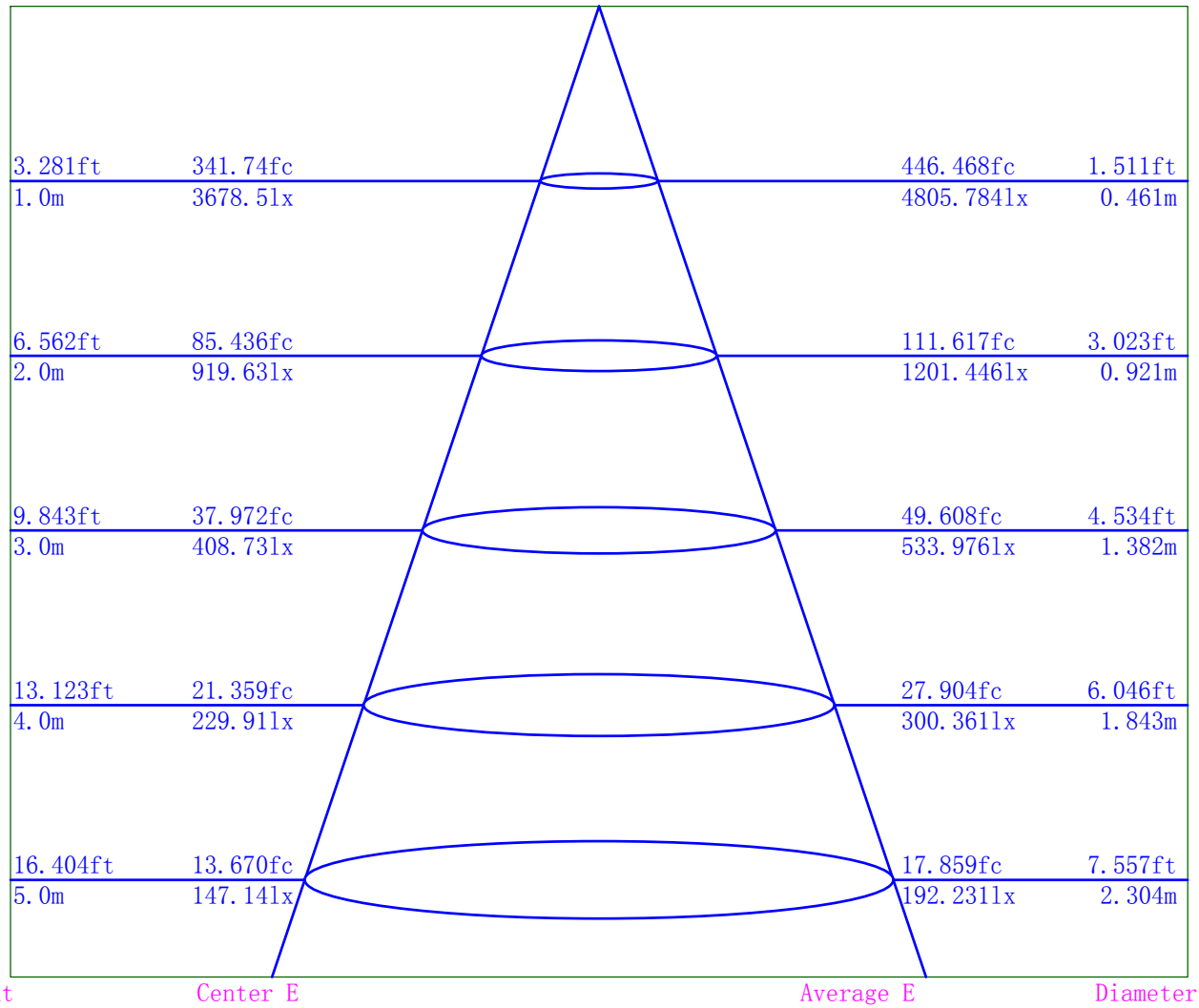
Curves:
[Unit: lx]
[EMax] =3678.534
[EMax*90%]=3310.681
[EMax*80%]=2942.827
[EMax*70%]=2574.974
[EMax*60%]=2207.120
[EMax*50%]=1839.267
[EMax*40%]=1471.414
[EMax*30%]=1103.560
[EMax*20%]=735.707
[EMax*10%]=367.853

Space Plane Maximum Illuminance and @Angle:3678.53lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:3678.534cd,0eg

Illuminance-Distance Diagram

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

Illuminance-Distance Curve



Beam Angle:25.9

Indoor Luminance Limiting Curves

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

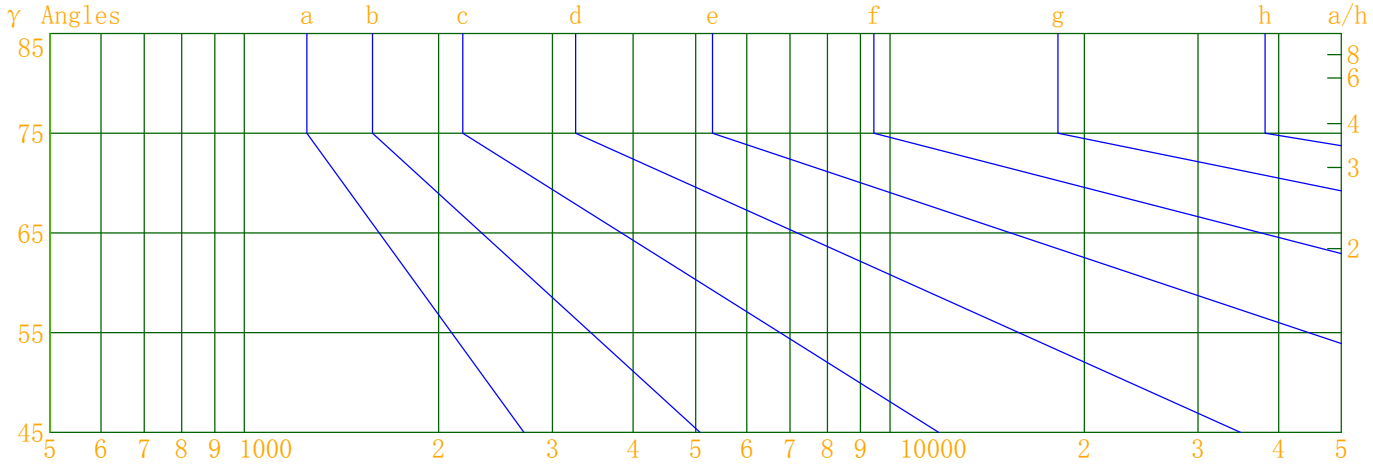
Glare Grade Table

GI	Quality	Using Illuminace							
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

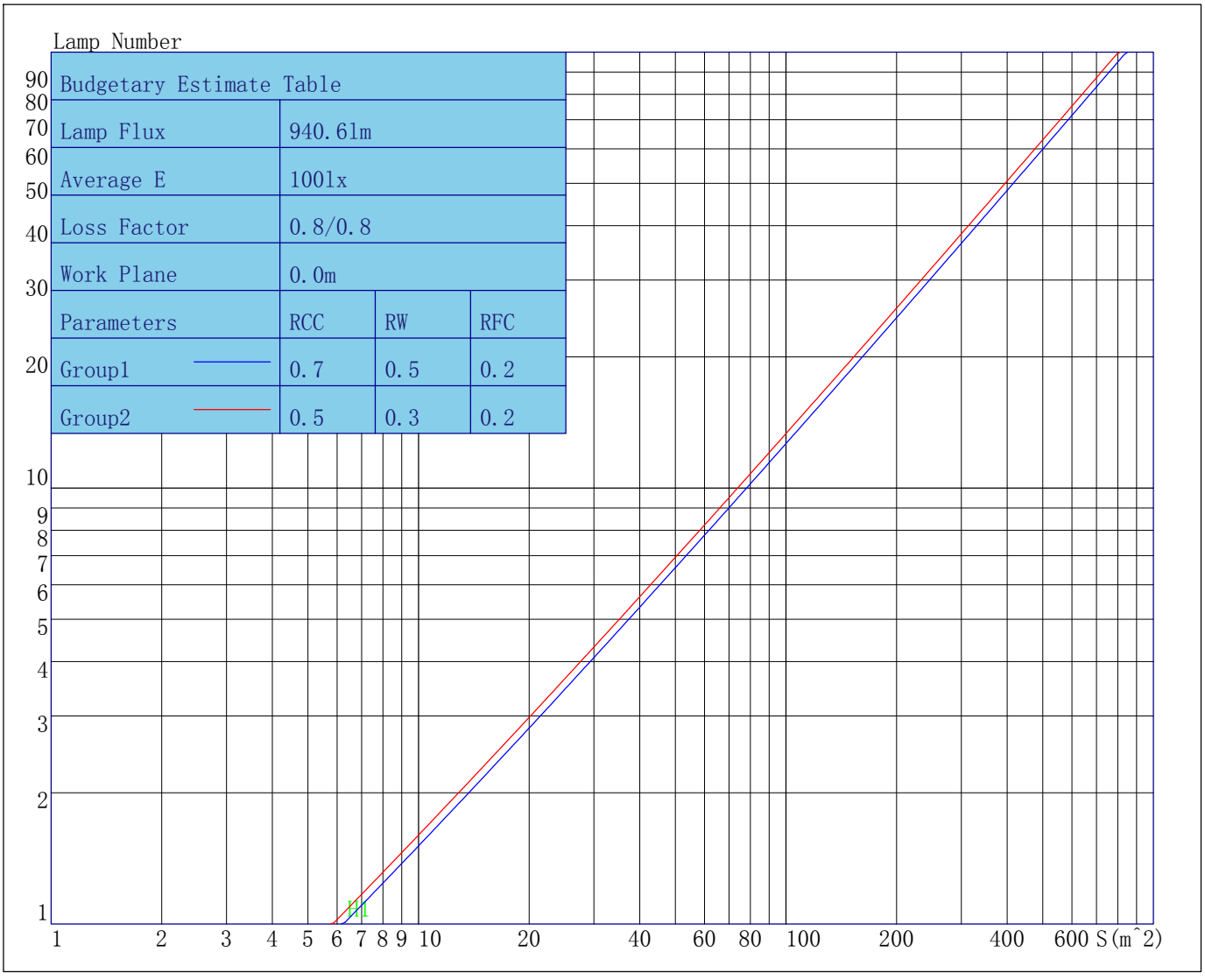
Luminance Limiting Curve



Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24



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: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

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	102	102	102	100
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	86	82	79	85	82	79	84	81	79	83	80	78	77
8	91	84	80	77	90	84	79	77	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	78	74	72	78	74	72	77	74	71	77	73	71	70

Unified Glare Rating Table

Lum.Name: HCP-1022202+HCP-1032202 5000K 24D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/11/24

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	-1.0	-0.1	-0.7	0.2	0.5	-1.0	-0.1	-0.7	0.2	0.5
	Y=3H	-1.3	-0.4	-0.9	-0.1	0.3	-1.3	-0.4	-0.9	-0.1	0.3
	Y=4H	-1.4	-0.6	-1.0	-0.2	0.2	-1.4	-0.6	-1.0	-0.2	0.2
	Y=6H	-1.5	-0.8	-1.1	-0.4	0.0	-1.5	-0.8	-1.1	-0.4	0.0
	Y=8H	-1.5	-0.9	-1.1	-0.5	-0.1	-1.5	-0.9	-1.1	-0.5	-0.1
	Y=12H	-1.6	-1.0	-1.2	-0.6	-0.1	-1.6	-1.0	-1.2	-0.6	-0.1
X=4H	Y=2H	-1.4	-0.6	-1.0	-0.2	0.2	-1.4	-0.6	-1.0	-0.2	0.2
	Y=3H	-1.6	-1.0	-1.2	-0.5	-0.1	-1.6	-1.0	-1.2	-0.5	-0.1
	Y=4H	-1.7	-1.1	-1.3	-0.7	-0.3	-1.7	-1.1	-1.3	-0.7	-0.3
	Y=6H	-1.9	-1.3	-1.4	-0.9	-0.4	-1.9	-1.3	-1.4	-0.9	-0.4
	Y=8H	-1.9	-1.5	-1.4	-1.0	-0.5	-1.9	-1.5	-1.4	-1.0	-0.5
	Y=12H	-2.0	-1.6	-1.5	-1.1	-0.6	-2.0	-1.6	-1.5	-1.1	-0.6
X=8H	Y=4H	-1.9	-1.5	-1.4	-1.0	-0.5	-1.9	-1.5	-1.4	-1.0	-0.5
	Y=6H	-2.1	-1.7	-1.5	-1.2	-0.7	-2.1	-1.7	-1.5	-1.2	-0.7
	Y=8H	-2.1	-1.8	-1.6	-1.3	-0.8	-2.1	-1.8	-1.6	-1.3	-0.8
	Y=12H	-2.2	-1.9	-1.7	-1.4	-0.8	-2.2	-1.9	-1.7	-1.4	-0.8
X=12H	Y=4H	-2.0	-1.6	-1.5	-1.1	-0.6	-2.0	-1.6	-1.5	-1.1	-0.6
	Y=6H	-2.1	-1.8	-1.6	-1.3	-0.8	-2.1	-1.8	-1.6	-1.3	-0.8
	Y=8H	-2.2	-1.9	-1.7	-1.4	-0.8	-2.2	-1.9	-1.7	-1.4	-0.8
Variations with the objerver position at spacings											
S=1.0H		0.0/0.0					0.0/0.0				
S=1.5H		0.0/0.0					0.0/0.0				
S=2.0H		0.0/0.0					0.0/0.0				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		0.0					0.0				

o the CIE Pub.117,data has been corrected,refers to the lamp's lumens 8.2flm.

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	3678.53	3678.53	3678.53	3678.53
γ 1.0	3674.74	3678.55	3643.43	3704.29
γ 2.0	3668.70	3647.17	3598.41	3688.57
γ 3.0	3639.95	3590.49	3519.03	3632.29
γ 4.0	3592.16	3510.52	3403.43	3539.63
γ 5.0	3525.98	3411.54	3273.15	3421.41
γ 6.0	3430.71	3291.21	3123.59	3296.37
γ 7.0	3313.65	3150.48	2950.10	3147.21
γ 8.0	3181.05	2994.01	2750.46	2962.15
γ 9.0	3027.94	2816.20	2526.82	2743.64
γ 10.0	2854.42	2621.43	2285.65	2511.46
γ 11.0	2658.96	2406.23	2041.01	2270.32
γ 12.0	2452.42	2159.75	1799.66	2028.63
γ 13.0	2218.04	1900.36	1575.13	1796.02
γ 14.0	1962.85	1639.95	1380.17	1585.65
γ 15.0	1700.72	1391.56	1206.91	1400.87
γ 16.0	1453.73	1172.83	1058.90	1234.02
γ 17.0	1237.65	995.08	933.36	1087.37
γ 18.0	1064.63	852.90	823.41	956.64
γ 19.0	920.09	735.25	726.50	842.66
γ 20.0	797.54	638.65	641.64	742.86
γ 21.0	694.70	555.35	564.33	654.12
γ 22.0	606.22	484.12	495.44	576.26
γ 23.0	530.13	421.54	433.89	506.59
γ 24.0	463.06	365.91	378.13	444.43
γ 25.0	403.60	316.88	327.55	389.54
γ 26.0	351.01	272.02	282.21	339.18
γ 27.0	302.96	230.76	242.18	293.88
γ 28.0	259.39	192.14	206.82	253.96
γ 29.0	219.12	160.84	176.92	217.89
γ 30.0	187.22	136.87	149.86	186.26
γ 31.0	160.84	118.05	127.31	157.05
γ 32.0	139.34	101.37	106.78	133.12
γ 33.0	119.43	87.63	90.33	111.77
γ 34.0	103.27	76.18	75.60	94.49
γ 35.0	89.34	66.30	63.13	79.61
γ 36.0	77.69	57.81	52.40	66.57
γ 37.0	67.46	50.19	43.86	55.56
γ 38.0	58.60	43.75	37.04	46.89
γ 39.0	50.94	38.39	31.69	40.13
γ 40.0	44.56	33.65	27.45	34.69
γ 41.0	39.37	29.83	23.93	30.36
γ 42.0	34.72	26.46	21.14	26.74
γ 43.0	30.95	23.64	18.83	23.78
γ 44.0	27.73	20.95	16.93	21.22
γ 45.0	24.93	18.72	15.11	18.98
γ 46.0	22.41	16.67	13.51	16.86

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	20.09	14.79	11.84	14.71
γ 48.0	18.04	13.11	10.71	12.68
γ 49.0	16.13	11.60	10.07	11.50
γ 50.0	14.22	10.33	9.48	10.65
γ 51.0	12.79	9.30	9.01	9.94
γ 52.0	11.73	8.48	8.51	9.35
γ 53.0	10.74	7.54	8.05	8.79
γ 54.0	9.76	6.86	7.52	8.25
γ 55.0	8.90	6.12	7.03	7.65
γ 56.0	8.18	5.50	6.40	7.13
γ 57.0	7.51	4.88	5.84	6.67
γ 58.0	6.72	4.36	5.36	6.14
γ 59.0	6.18	3.74	4.81	5.62
γ 60.0	5.53	3.27	4.24	5.01
γ 61.0	4.86	2.73	3.63	4.49
γ 62.0	4.32	2.08	1.97	3.91
γ 63.0	3.63	1.49	1.40	3.25
γ 64.0	2.92	0.92	0.81	2.78
γ 65.0	2.36	0.35	0.19	2.15
γ 66.0	1.69	0.00	0.00	1.35
γ 67.0	1.05	0.00	0.00	0.69
γ 68.0	0.42	0.00	0.00	0.09
γ 69.0	0.00	0.00	0.00	0.00
γ 70.0	0.00	0.00	0.00	0.00
γ 71.0	0.00	0.00	0.00	0.00
γ 72.0	0.00	0.00	0.00	0.00
γ 73.0	0.00	0.00	0.00	0.00
γ 74.0	0.00	0.00	0.00	0.00
γ 75.0	0.00	0.00	0.00	0.00
γ 76.0	0.00	0.00	0.00	0.00
γ 77.0	0.00	0.00	0.00	0.00
γ 78.0	0.00	0.00	0.00	0.00
γ 79.0	0.00	0.00	0.00	0.00
γ 80.0	0.00	0.00	0.00	0.00
γ 81.0	0.00	0.00	0.00	0.00
γ 82.0	0.00	0.00	0.00	0.00
γ 83.0	0.00	0.00	0.00	0.00
γ 84.0	0.00	0.00	0.00	0.00
γ 85.0	0.00	0.00	0.00	0.00
γ 86.0	0.00	0.00	0.00	0.00
γ 87.0	0.00	0.00	0.00	0.00
γ 88.0	0.00	0.00	0.00	0.00
γ 89.0	0.00	0.00	0.00	0.00
γ 90.0	0.00	0.00	0.00	0.00
γ 91.0	0.00	0.00	0.00	0.00
γ 92.0	0.00	0.00	0.00	0.00
γ 93.0	0.00	0.00	0.00	0.00

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	0.00	0.00	0.00	0.00
γ 95.0	0.00	0.00	0.00	0.00
γ 96.0	0.00	0.00	0.00	0.00
γ 97.0	0.00	0.00	0.00	0.00
γ 98.0	0.00	0.00	0.00	0.00
γ 99.0	0.00	0.00	0.00	0.00
γ 100.0	0.00	0.00	0.00	0.00
γ 101.0	0.00	0.00	0.00	0.00
γ 102.0	0.00	0.00	0.00	0.00
γ 103.0	0.00	0.00	0.00	0.00
γ 104.0	0.00	0.00	0.00	0.00
γ 105.0	0.00	0.00	0.00	0.00
γ 106.0	0.00	0.00	0.00	0.00
γ 107.0	0.00	0.00	0.00	0.00
γ 108.0	0.00	0.00	0.00	0.00
γ 109.0	0.00	0.00	0.00	0.00
γ 110.0	0.00	0.00	0.00	0.00
γ 111.0	0.00	0.00	0.00	0.00
γ 112.0	0.00	0.00	0.00	0.00
γ 113.0	0.00	0.00	0.00	0.00
γ 114.0	0.00	0.00	0.00	0.00
γ 115.0	0.00	0.00	0.00	0.00
γ 116.0	0.00	0.00	0.00	0.00
γ 117.0	0.00	0.00	0.00	0.00
γ 118.0	0.00	0.00	0.00	0.00
γ 119.0	0.00	0.00	0.00	0.00
γ 120.0	0.00	0.00	0.00	0.00
γ 121.0	0.00	0.00	0.00	0.00
γ 122.0	0.00	0.00	0.00	0.00
γ 123.0	0.00	0.00	0.00	0.00
γ 124.0	0.00	0.00	0.00	0.00
γ 125.0	0.00	0.00	0.00	0.00
γ 126.0	0.00	0.00	0.00	0.00
γ 127.0	0.00	0.00	0.00	0.00
γ 128.0	0.00	0.00	0.00	0.00
γ 129.0	0.00	0.00	0.00	0.00
γ 130.0	0.00	0.00	0.00	0.00
γ 131.0	0.00	0.00	0.00	0.00
γ 132.0	0.00	0.00	0.00	0.00
γ 133.0	0.00	0.00	0.00	0.00
γ 134.0	0.00	0.00	0.00	0.00
γ 135.0	0.00	0.00	0.00	0.00
γ 136.0	0.00	0.00	0.00	0.00
γ 137.0	0.00	0.00	0.00	0.00
γ 138.0	0.00	0.00	0.00	0.00
γ 139.0	0.00	0.00	0.00	0.00
γ 140.0	0.00	0.00	0.00	0.00

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	0.00	0.00	0.00	0.00
γ 142.0	0.00	0.00	0.00	0.00
γ 143.0	0.00	0.00	0.00	0.00
γ 144.0	0.00	0.00	0.00	0.00
γ 145.0	0.00	0.00	0.00	0.00
γ 146.0	0.00	0.00	0.00	0.00
γ 147.0	0.00	0.00	0.00	0.00
γ 148.0	0.00	0.00	0.00	0.00
γ 149.0	0.00	0.00	0.00	0.00
γ 150.0	0.00	0.00	0.00	0.00
γ 151.0	0.00	0.00	0.00	0.00
γ 152.0	0.00	0.00	0.00	0.00
γ 153.0	0.00	0.00	0.00	0.00
γ 154.0	0.00	0.00	0.00	0.00
γ 155.0	0.00	0.00	0.00	0.00
γ 156.0	0.00	0.00	0.00	0.00
γ 157.0	0.00	0.00	0.00	0.00
γ 158.0	0.00	0.00	0.00	0.00
γ 159.0	0.00	0.00	0.00	0.00
γ 160.0	0.00	0.00	0.00	0.00
γ 161.0	0.00	0.00	0.00	0.00
γ 162.0	0.00	0.00	0.00	0.00
γ 163.0	0.00	0.00	0.00	0.00
γ 164.0	0.00	0.00	0.00	0.00
γ 165.0	0.00	0.00	0.00	0.00
γ 166.0	0.00	0.00	0.00	0.00
γ 167.0	0.00	0.00	0.00	0.00
γ 168.0	0.00	0.00	0.00	0.00
γ 169.0	0.00	0.00	0.00	0.00
γ 170.0	0.00	0.00	0.00	0.00
γ 171.0	0.00	0.00	0.00	0.00
γ 172.0	0.00	0.00	0.00	0.00
γ 173.0	0.00	0.00	0.00	0.00
γ 174.0	0.00	0.00	0.00	0.00
γ 175.0	0.00	0.00	0.00	0.00
γ 176.0	0.00	0.00	0.00	0.00
γ 177.0	0.00	0.00	0.00	0.00
γ 178.0	0.00	0.00	0.00	0.00
γ 179.0	0.00	0.00	0.00	0.00
γ 180.0	0.00	0.00	0.00	0.00