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Indoor Luminaire Photometric Data

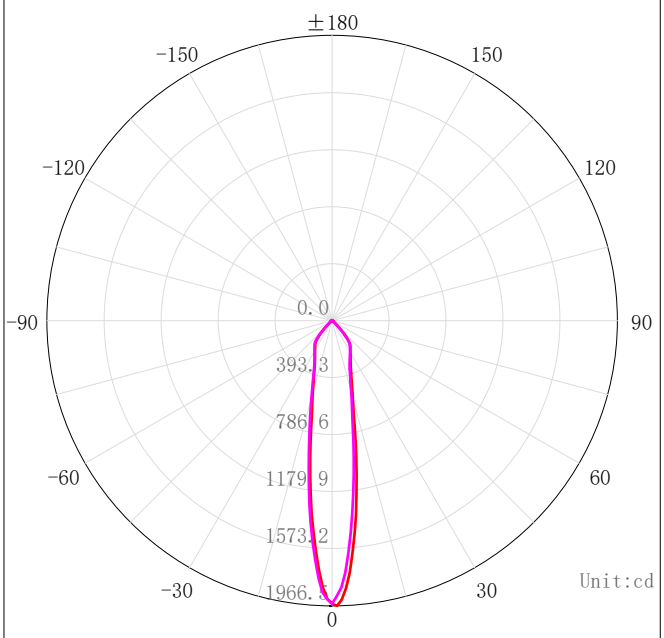
Description Information

Luminary Name: HCP-809024-5700K RA90 15D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2020/09/21
Manufacture: Havit Commercial		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: Quality Department		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.050m*0.000m*0.080m		Lum.Area(m2):0.016	Lum.W(kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp.(℃): 25	Humidity(%): 50.0

Character Parameter

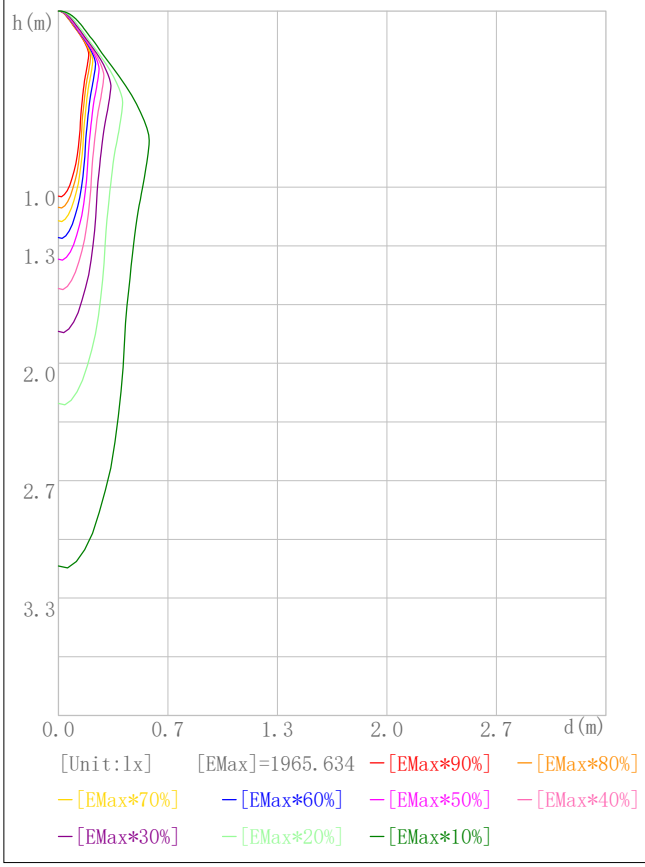
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 625.930	Luminary Flux(lm): 625.929	Field Angle(10%Imax): 74.0(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 621.375lm 99.27%
Rated Voltage(V):	Luminary EER(lm/W): 72.120	Up Lumens&Percent: 4.554lm 0.73%
Tested Power(W): 8.679	Max.Candela(cd): 1966.532	S/MH: C0_a180=0.319 C90_270=0.311
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):240.3,0.039,0.909	Beam Angle(50%Imax): 18.6(°)	ErP Φuse(90°): 575.014lm
Lamp Size(W*L*H):0.050m*0.000m*0.080m	Left=-8.8° ,Right=9.8°	IRF(%): 656.760

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C0.0_180.0 :	18.6	74.0
C90.0_270.0 :	18.3	74.8

C0 Space ISO Illuminance Curve



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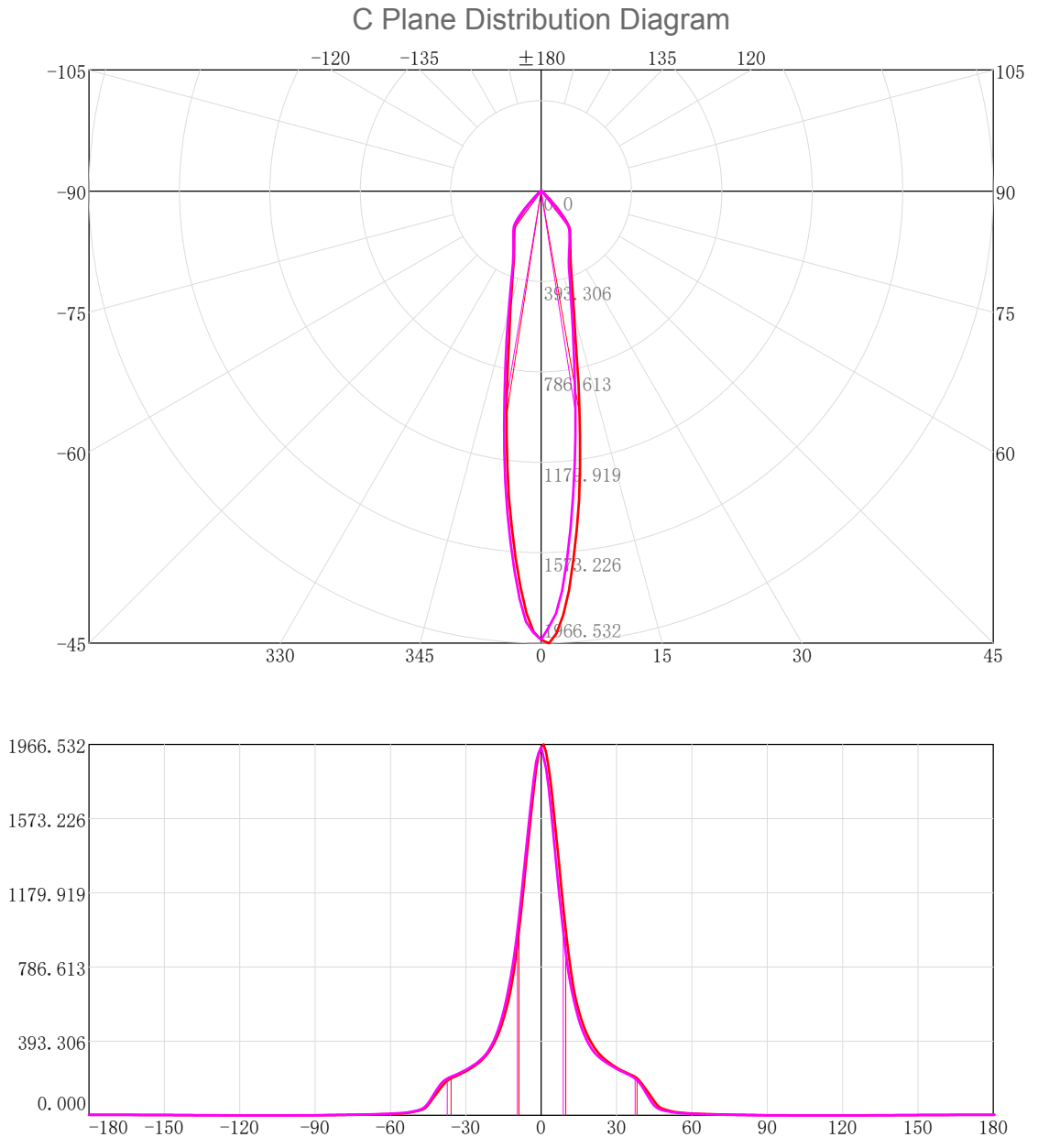
2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21



C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C0.0_180.0 :	18.6	74.0	
C90.0_270.0 :	18.3	74.8	

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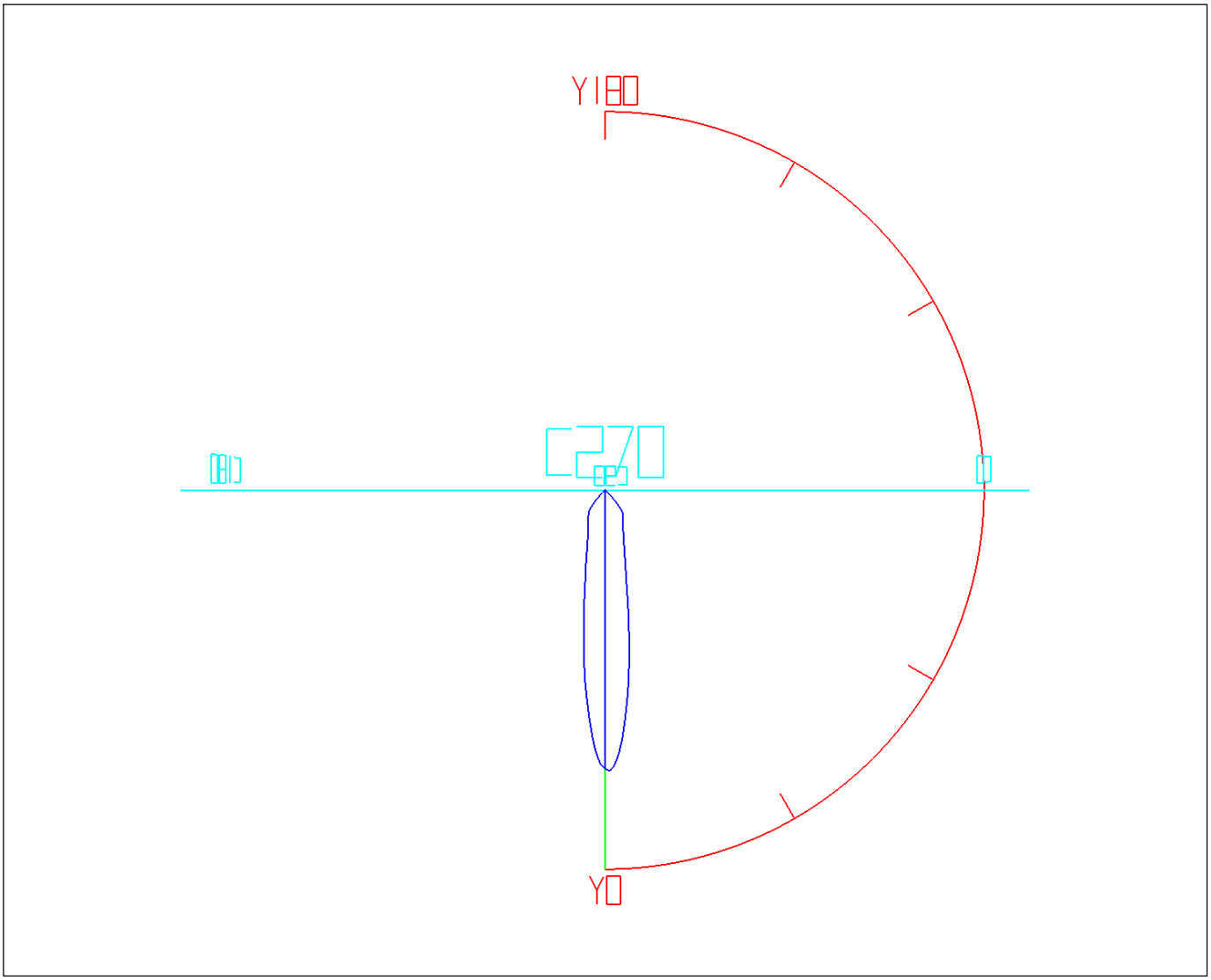
3D Light Intensity Distribution Modal

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21

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(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	1.85	1.85	0.30	0.30	47.0-48.0	2.77	591.88	0.44	94.56
1.0-2.0	5.45	7.30	0.87	1.17	48.0-49.0	2.40	594.28	0.38	94.94
2.0-3.0	8.71	16.01	1.39	2.56	49.0-50.0	2.15	596.43	0.34	95.29
3.0-4.0	11.46	27.46	1.83	4.39	50.0-51.0	1.92	598.35	0.31	95.59
4.0-5.0	13.64	41.10	2.18	6.57	51.0-52.0	1.70	600.05	0.27	95.86
5.0-6.0	15.29	56.39	2.44	9.01	52.0-53.0	1.50	601.55	0.24	96.10
6.0-7.0	16.44	72.83	2.63	11.64	53.0-54.0	1.35	602.90	0.22	96.32
7.0-8.0	17.08	89.91	2.73	14.36	54.0-55.0	1.23	604.13	0.20	96.52
8.0-9.0	17.30	107.21	2.76	17.13	55.0-56.0	1.14	605.27	0.18	96.70
9.0-10.0	17.20	124.41	2.75	19.88	56.0-57.0	1.06	606.33	0.17	96.87
10.0-11.0	16.88	141.28	2.70	22.57	57.0-58.0	1.00	607.33	0.16	97.03
11.0-12.0	16.44	157.72	2.63	25.20	58.0-59.0	0.94	608.27	0.15	97.18
12.0-13.0	15.99	173.71	2.56	27.75	59.0-60.0	0.89	609.16	0.14	97.32
13.0-14.0	15.61	189.32	2.49	30.25	60.0-61.0	0.83	609.99	0.13	97.45
14.0-15.0	15.25	204.57	2.44	32.68	61.0-62.0	0.78	610.77	0.12	97.58
15.0-16.0	14.90	219.46	2.38	35.06	62.0-63.0	0.74	611.51	0.12	97.70
16.0-17.0	14.57	234.03	2.33	37.39	63.0-64.0	0.70	612.20	0.11	97.81
17.0-18.0	14.29	248.32	2.28	39.67	64.0-65.0	0.66	612.86	0.11	97.91
18.0-19.0	14.03	262.35	2.24	41.91	65.0-66.0	0.62	613.49	0.10	98.01
19.0-20.0	13.80	276.15	2.20	44.12	66.0-67.0	0.59	614.08	0.09	98.11
20.0-21.0	13.61	289.76	2.17	46.29	67.0-68.0	0.56	614.64	0.09	98.20
21.0-22.0	13.48	303.24	2.15	48.45	68.0-69.0	0.54	615.18	0.09	98.28
22.0-23.0	13.41	316.65	2.14	50.59	69.0-70.0	0.51	615.69	0.08	98.36
23.0-24.0	13.38	330.03	2.14	52.73	70.0-71.0	0.49	616.18	0.08	98.44
24.0-25.0	13.37	343.41	2.14	54.86	71.0-72.0	0.46	616.64	0.07	98.52
25.0-26.0	13.37	356.78	2.14	57.00	72.0-73.0	0.44	617.08	0.07	98.59
26.0-27.0	13.38	370.16	2.14	59.14	73.0-74.0	0.42	617.50	0.07	98.65
27.0-28.0	13.39	383.55	2.14	61.28	74.0-75.0	0.40	617.90	0.06	98.72
28.0-29.0	13.40	396.95	2.14	63.42	75.0-76.0	0.38	618.28	0.06	98.78
29.0-30.0	13.40	410.35	2.14	65.56	76.0-77.0	0.35	618.63	0.06	98.83
30.0-31.0	13.38	423.73	2.14	67.70	77.0-78.0	0.33	618.96	0.05	98.89
31.0-32.0	13.38	437.11	2.14	69.83	78.0-79.0	0.31	619.28	0.05	98.94
32.0-33.0	13.38	450.49	2.14	71.97	79.0-80.0	0.29	619.57	0.05	98.98
33.0-34.0	13.36	463.85	2.13	74.11	80.0-81.0	0.27	619.84	0.04	99.03
34.0-35.0	13.32	477.17	2.13	76.23	81.0-82.0	0.25	620.09	0.04	99.07
35.0-36.0	13.27	490.44	2.12	78.35	82.0-83.0	0.23	620.33	0.04	99.10
36.0-37.0	13.17	503.61	2.10	80.46	83.0-84.0	0.21	620.54	0.03	99.14
37.0-38.0	12.92	516.53	2.06	82.52	84.0-85.0	0.19	620.73	0.03	99.17
38.0-39.0	12.44	528.98	1.99	84.51	85.0-86.0	0.17	620.91	0.03	99.20
39.0-40.0	11.70	540.68	1.87	86.38	86.0-87.0	0.15	621.06	0.02	99.22
40.0-41.0	10.70	551.37	1.71	88.09	87.0-88.0	0.13	621.19	0.02	99.24
41.0-42.0	9.53	560.91	1.52	89.61	88.0-89.0	0.10	621.30	0.02	99.26
42.0-43.0	8.23	569.14	1.31	90.93	89.0-90.0	0.08	621.38	0.01	99.27
43.0-44.0	6.84	575.98	1.09	92.02	90.0-91.0	0.07	621.44	0.01	99.28
44.0-45.0	5.48	581.46	0.88	92.89	91.0-92.0	0.06	621.50	0.01	99.29
45.0-46.0	4.28	585.74	0.68	93.58	92.0-93.0	0.05	621.55	0.01	99.30
46.0-47.0	3.37	589.11	0.54	94.12	93.0-94.0	0.05	621.60	0.01	99.31

Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.04	621.64	0.01	99.31
95.0-96.0	0.03	621.67	0.01	99.32
96.0-97.0	0.03	621.70	0.00	99.32
97.0-98.0	0.02	621.72	0.00	99.33
98.0-99.0	0.02	621.74	0.00	99.33
99.0-100.0	0.02	621.76	0.00	99.33
100.0-101.0	0.02	621.77	0.00	99.34
101.0-102.0	0.01	621.79	0.00	99.34
102.0-103.0	0.01	621.80	0.00	99.34
103.0-104.0	0.01	621.81	0.00	99.34
104.0-105.0	0.01	621.82	0.00	99.34
105.0-106.0	0.01	621.83	0.00	99.34
106.0-107.0	0.01	621.84	0.00	99.35
107.0-108.0	0.01	621.84	0.00	99.35
108.0-109.0	0.01	621.85	0.00	99.35
109.0-110.0	0.01	621.85	0.00	99.35
110.0-111.0	0.01	621.86	0.00	99.35
111.0-112.0	0.01	621.87	0.00	99.35
112.0-113.0	0.01	621.87	0.00	99.35
113.0-114.0	0.01	621.88	0.00	99.35
114.0-115.0	0.01	621.88	0.00	99.35
115.0-116.0	0.01	621.89	0.00	99.35
116.0-117.0	0.01	621.90	0.00	99.36
117.0-118.0	0.01	621.90	0.00	99.36
118.0-119.0	0.01	621.91	0.00	99.36
119.0-120.0	0.01	621.92	0.00	99.36
120.0-121.0	0.01	621.93	0.00	99.36
121.0-122.0	0.01	621.94	0.00	99.36
122.0-123.0	0.01	621.96	0.00	99.37
123.0-124.0	0.02	621.97	0.00	99.37
124.0-125.0	0.02	621.99	0.00	99.37
125.0-126.0	0.02	622.01	0.00	99.37
126.0-127.0	0.02	622.04	0.00	99.38
127.0-128.0	0.03	622.06	0.00	99.38
128.0-129.0	0.03	622.10	0.00	99.39
129.0-130.0	0.03	622.13	0.01	99.39
130.0-131.0	0.04	622.17	0.01	99.40
131.0-132.0	0.04	622.21	0.01	99.41
132.0-133.0	0.05	622.26	0.01	99.41
133.0-134.0	0.05	622.31	0.01	99.42
134.0-135.0	0.06	622.37	0.01	99.43
135.0-136.0	0.06	622.43	0.01	99.44
136.0-137.0	0.07	622.50	0.01	99.45
137.0-138.0	0.07	622.57	0.01	99.46
138.0-139.0	0.08	622.65	0.01	99.48
139.0-140.0	0.08	622.73	0.01	99.49
140.0-141.0	0.09	622.82	0.01	99.50
141.0-142.0	0.09	622.91	0.01	99.52
142.0-143.0	0.10	623.01	0.02	99.53
143.0-144.0	0.10	623.11	0.02	99.55
144.0-145.0	0.10	623.21	0.02	99.57
145.0-146.0	0.11	623.32	0.02	99.58
146.0-147.0	0.11	623.43	0.02	99.60
147.0-148.0	0.11	623.54	0.02	99.62
148.0-149.0	0.11	623.65	0.02	99.64
149.0-150.0	0.11	623.76	0.02	99.65
150.0-151.0	0.11	623.88	0.02	99.67
151.0-152.0	0.11	623.99	0.02	99.69
152.0-153.0	0.11	624.10	0.02	99.71
153.0-154.0	0.11	624.21	0.02	99.73
154.0-155.0	0.11	624.32	0.02	99.74
155.0-156.0	0.11	624.43	0.02	99.76
156.0-157.0	0.11	624.54	0.02	99.78
157.0-158.0	0.10	624.64	0.02	99.79
158.0-159.0	0.10	624.75	0.02	99.81
159.0-160.0	0.10	624.85	0.02	99.83
160.0-161.0	0.10	624.94	0.02	99.84
161.0-162.0	0.09	625.04	0.01	99.86
162.0-163.0	0.09	625.12	0.01	99.87
163.0-164.0	0.09	625.21	0.01	99.89
164.0-165.0	0.08	625.29	0.01	99.90
165.0-166.0	0.08	625.37	0.01	99.91
166.0-167.0	0.07	625.45	0.01	99.92
167.0-168.0	0.07	625.51	0.01	99.93
168.0-169.0	0.06	625.58	0.01	99.94
169.0-170.0	0.06	625.64	0.01	99.95
170.0-171.0	0.05	625.69	0.01	99.96
171.0-172.0	0.05	625.74	0.01	99.97
172.0-173.0	0.04	625.79	0.01	99.98
173.0-174.0	0.04	625.82	0.01	99.98
174.0-175.0	0.03	625.86	0.01	99.99
175.0-176.0	0.03	625.88	0.00	99.99
176.0-177.0	0.02	625.90	0.00	100.00
177.0-178.0	0.01	625.92	0.00	100.00
178.0-179.0	0.01	625.93	0.00	100.00
179.0-180.0	0.00	625.93	0.00	100.00

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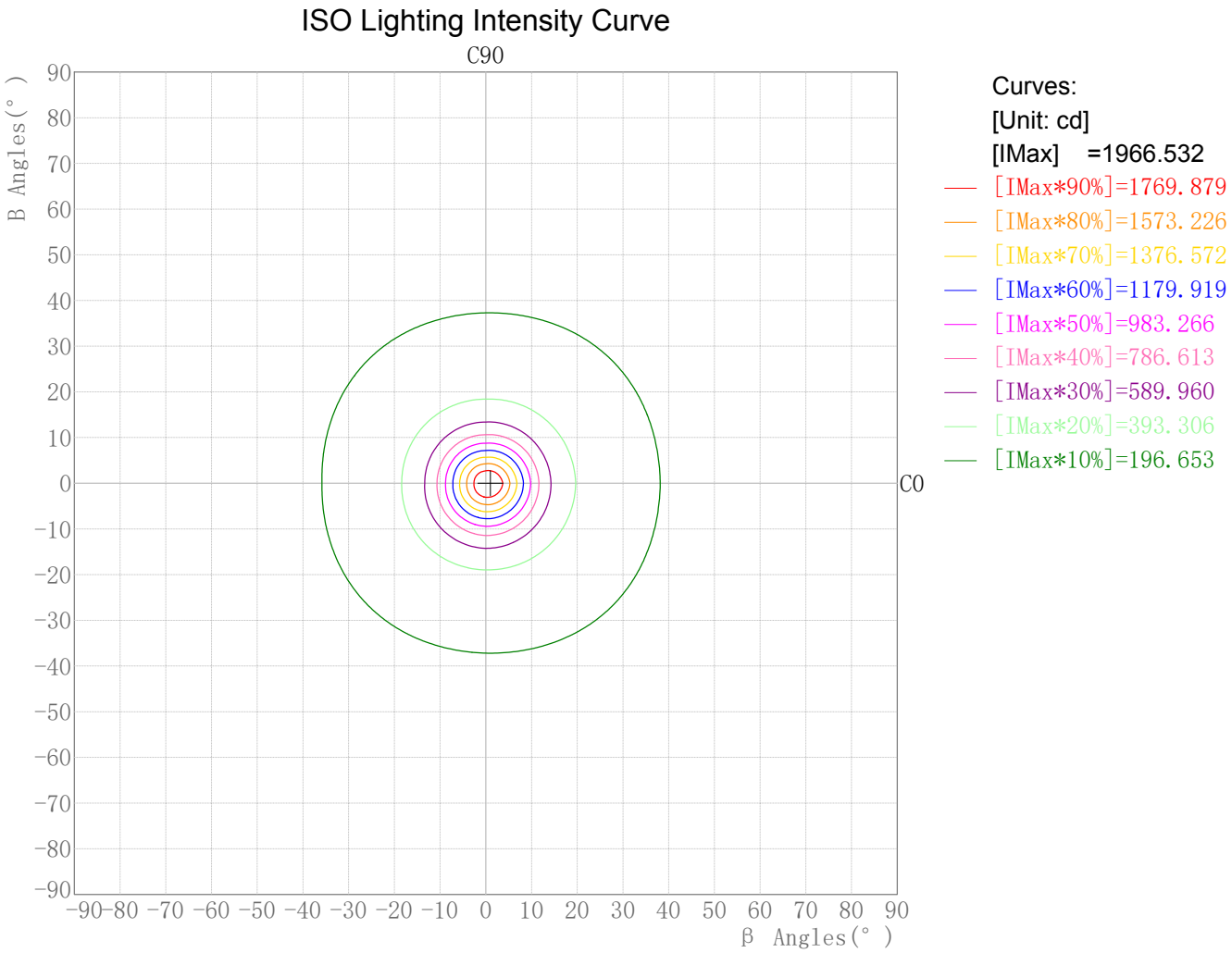
Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21



Maximum Light Intensity(cd): 1966.53
Maximum Cand.@Angle: H=1.0°,V=0.0°

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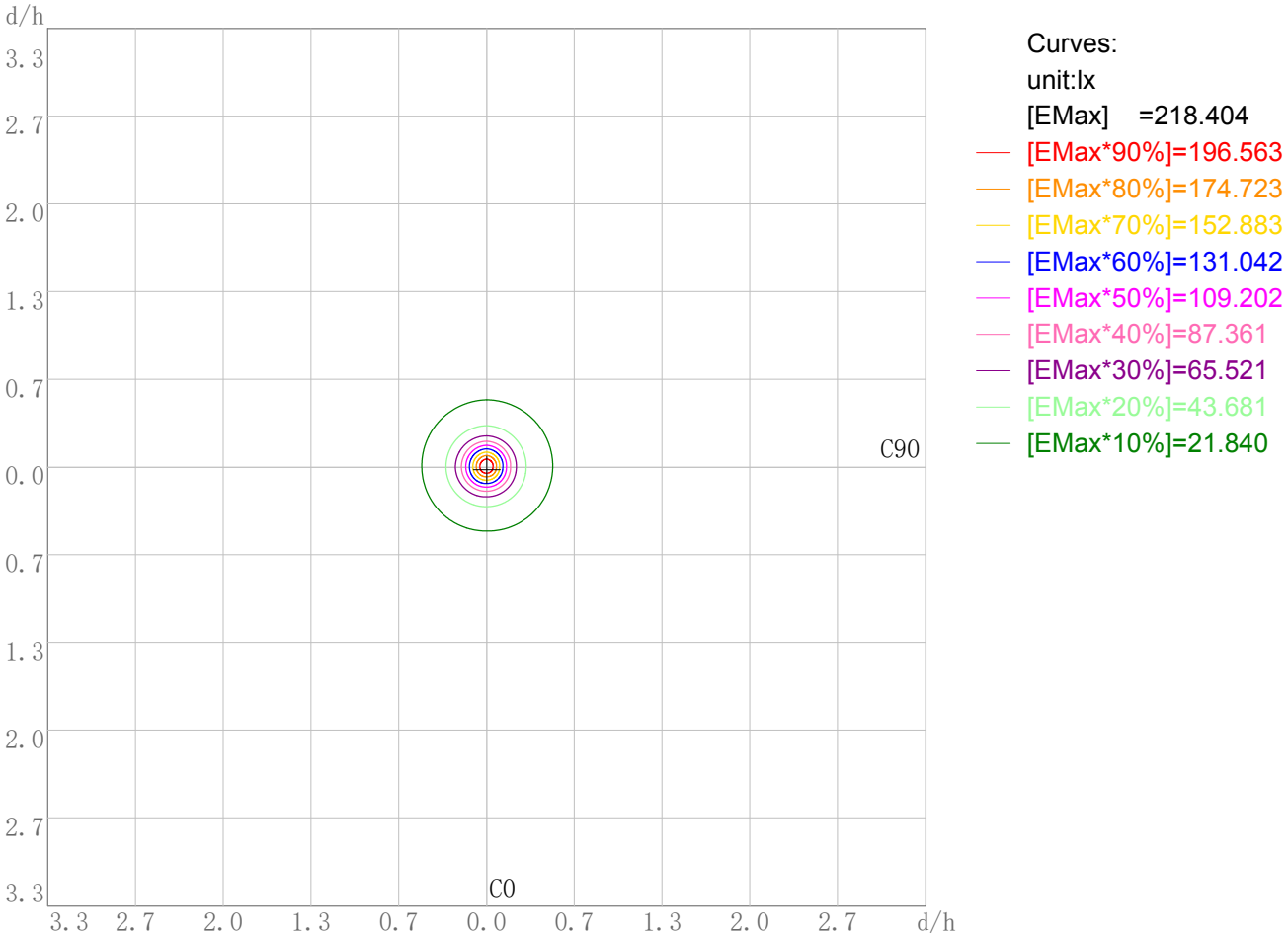
Plane ISO-Illuminance Diagram

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 218.40
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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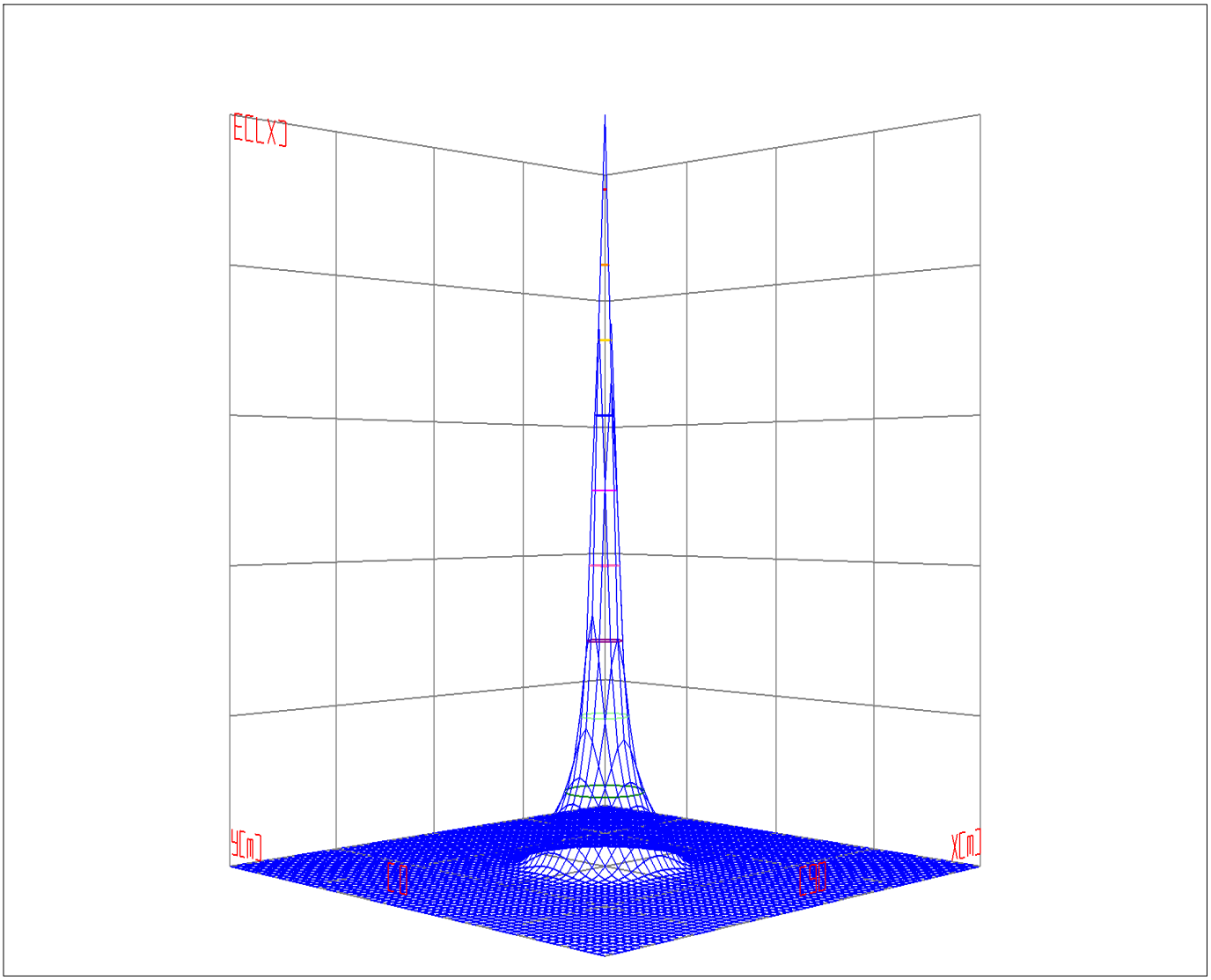
3D Plane ISO Illuminance Diagram

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21

3D Plane Illuminance Modal



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

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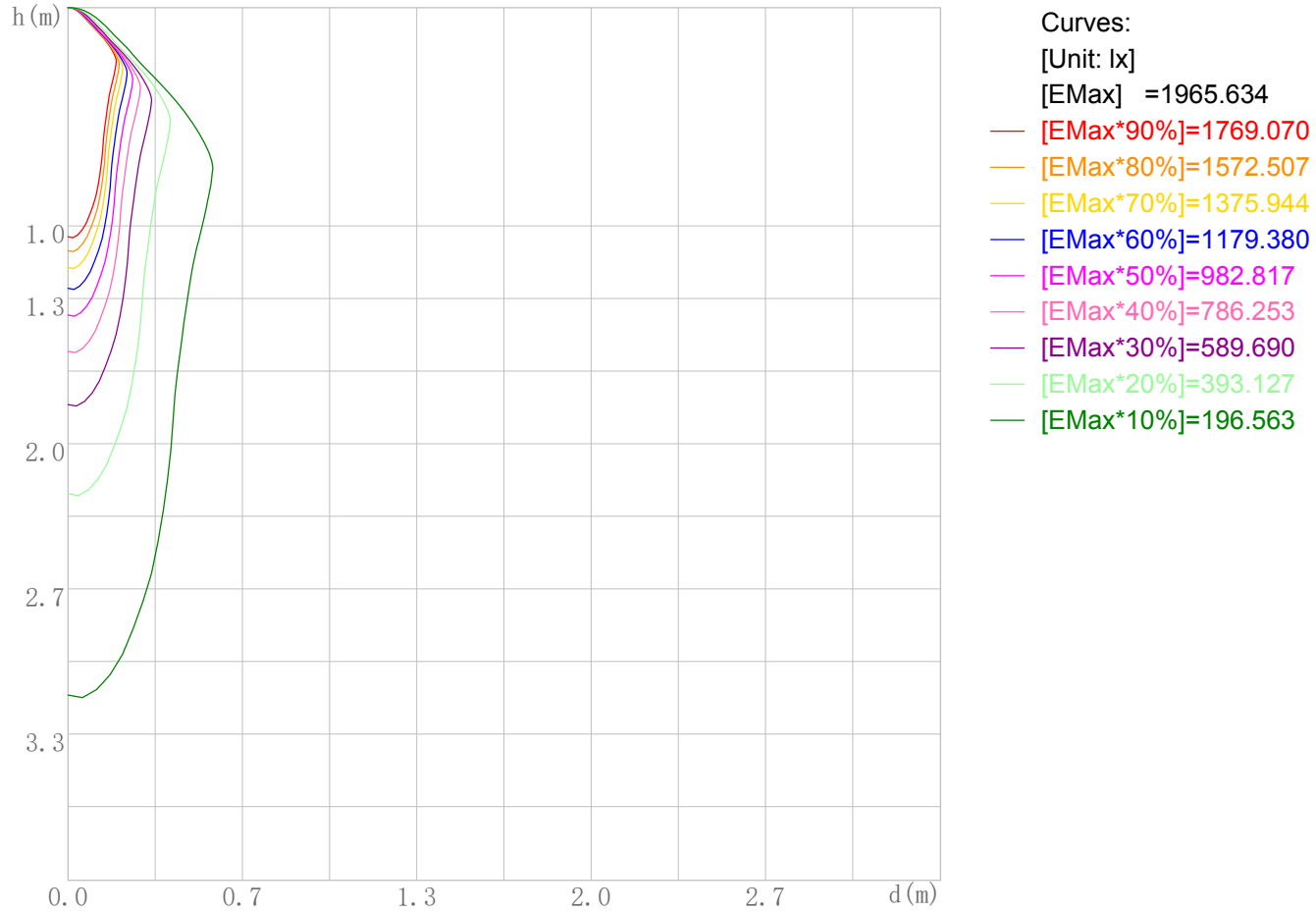
Space ISO Illuminance Diagram

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1965.63lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:1966.532cd,0eg

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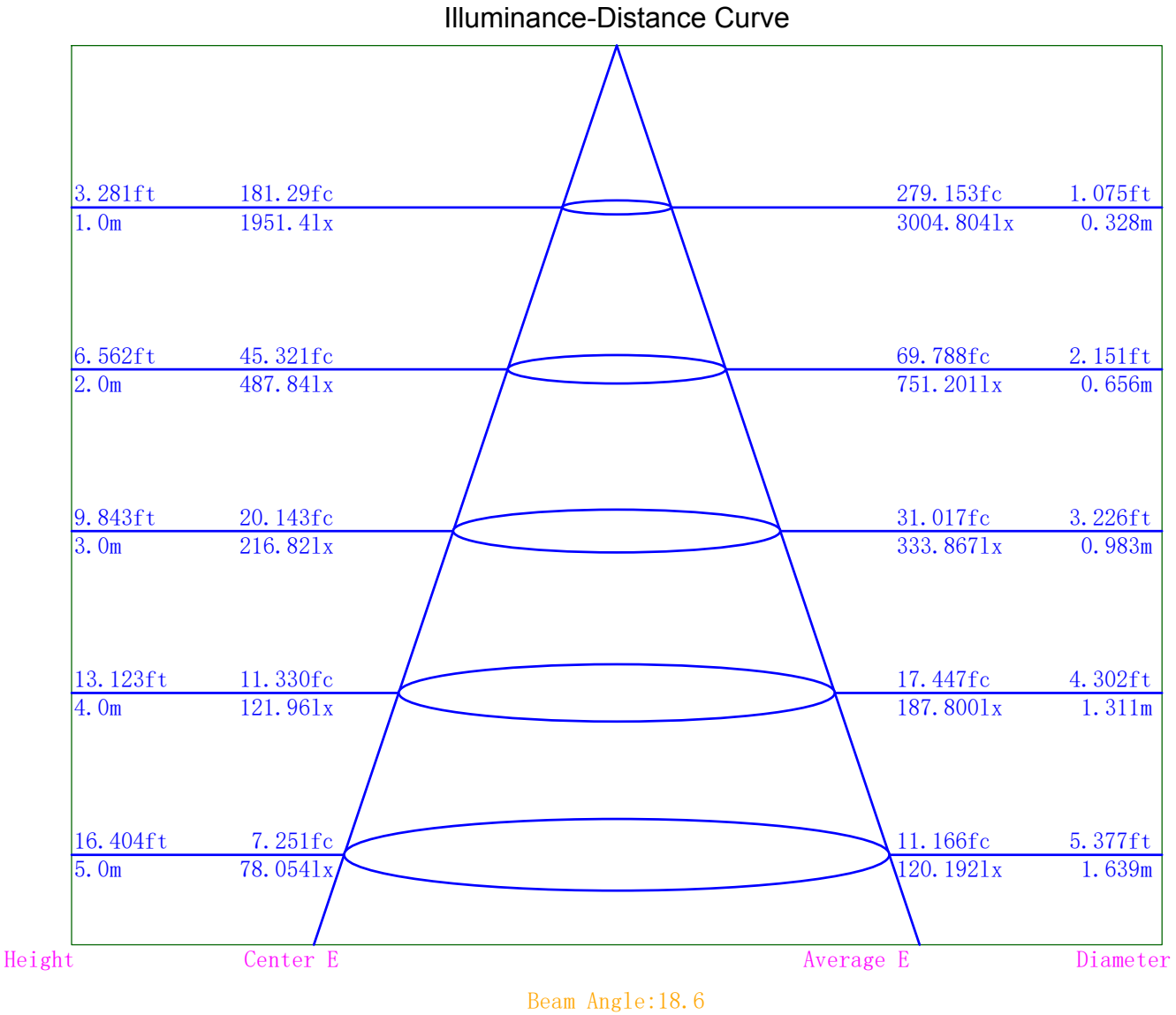
Illuminance-Distance Diagram

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21



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Indoor Luminance Limiting Curves

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21

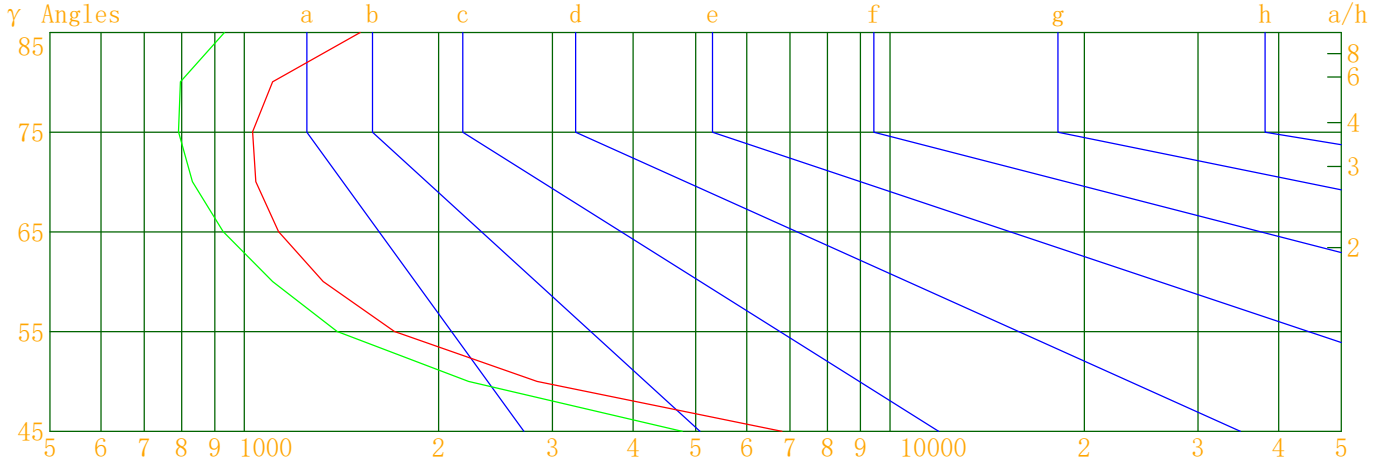
Glare Grade Table

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	6802	2841	1708	1325	1130	1042	1030	1106	1511
C90	4769	2224	1393	1106	927	831	791	796	931

Luminance Limiting Curve



Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.080 Area(m^2)=0.015708
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

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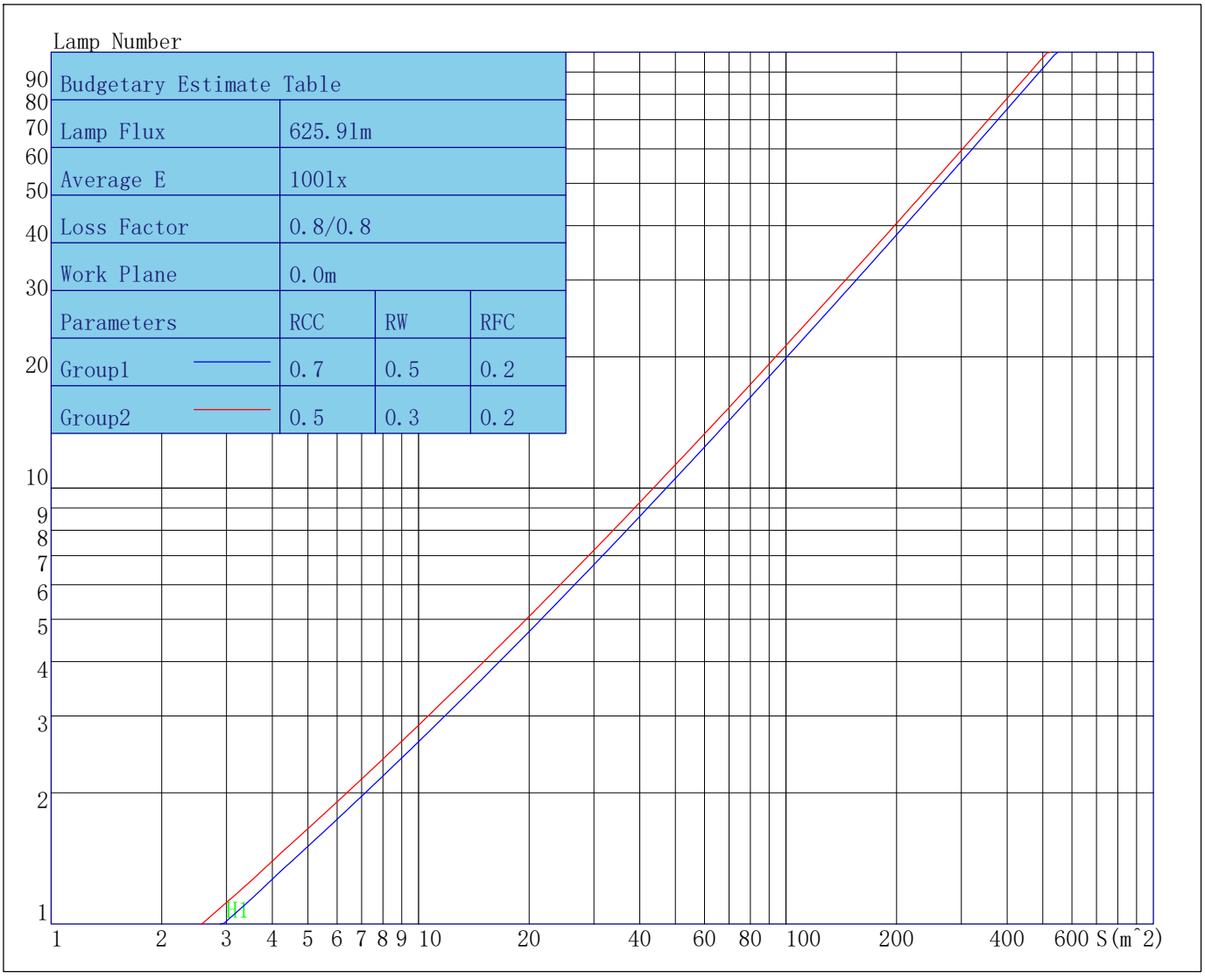
Indoor Budgetary Estimate Table

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21



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: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21

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	101	101	101	99
1	113	110	108	106	111	108	106	104	104	102	100	100	99	97	97	95	94	93
2	108	103	99	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	70	66	63	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53

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Unified Glare Rating Table

Lum.Name: HCP-809024-5700K RA90 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/21

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	15.0	16.1	15.4	16.4	16.8	14.5	15.5	14.9	15.9	16.2
	Y=3H	15.0	15.9	15.4	16.3	16.6	14.4	15.3	14.8	15.7	16.1
	Y=4H	15.0	15.8	15.4	16.2	16.6	14.4	15.2	14.8	15.6	16.0
	Y=6H	15.0	15.7	15.4	16.1	16.6	14.3	15.1	14.8	15.5	15.9
	Y=8H	15.0	15.7	15.4	16.1	16.5	14.3	15.0	14.7	15.5	15.9
	Y=12H	15.0	15.7	15.4	16.1	16.5	14.3	15.0	14.7	15.4	15.8
X=4H	Y=2H	14.8	15.7	15.2	16.0	16.5	14.3	15.1	14.7	15.5	15.9
	Y=3H	14.8	15.5	15.2	15.9	16.4	14.2	14.9	14.6	15.4	15.8
	Y=4H	14.8	15.5	15.3	15.9	16.4	14.2	14.8	14.7	15.3	15.7
	Y=6H	14.9	15.4	15.4	15.9	16.4	14.2	14.8	14.7	15.2	15.7
	Y=8H	14.9	15.4	15.4	15.9	16.4	14.2	14.7	14.7	15.2	15.7
	Y=12H	14.9	15.4	15.5	15.9	16.4	14.2	14.6	14.7	15.1	15.6
X=8H	Y=4H	14.7	15.2	15.2	15.7	16.2	14.1	14.6	14.6	15.1	15.6
	Y=6H	14.8	15.2	15.3	15.7	16.3	14.1	14.5	14.7	15.1	15.6
	Y=8H	14.9	15.3	15.4	15.8	16.3	14.2	14.5	14.7	15.1	15.6
	Y=12H	15.0	15.3	15.5	15.8	16.4	14.2	14.5	14.7	15.0	15.6
X=12H	Y=4H	14.7	15.1	15.2	15.6	16.1	14.0	14.5	14.5	15.0	15.5
	Y=6H	14.8	15.2	15.3	15.6	16.2	14.1	14.5	14.6	15.0	15.5
	Y=8H	14.9	15.2	15.4	15.7	16.3	14.1	14.5	14.7	15.0	15.6
Variations with the observer position at spacings											
S=1.0H		0.2/-0.2					0.4/-0.4				
S=1.5H		0.5/-0.5					0.6/-0.7				
S=2.0H		0.6/-0.7					0.9/-0.9				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		0.6					0.4				

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	1951.35	1951.35	1951.35	1951.35
γ 1.0	1966.53	1897.17	1916.35	1920.42
γ 2.0	1924.33	1838.74	1836.55	1874.81
γ 3.0	1845.85	1741.23	1723.43	1777.72
γ 4.0	1741.39	1608.73	1596.09	1657.26
γ 5.0	1609.68	1469.23	1466.17	1532.52
γ 6.0	1480.02	1332.42	1341.00	1405.17
γ 7.0	1353.09	1198.59	1205.55	1276.53
γ 8.0	1212.39	1073.26	1078.14	1148.73
γ 9.0	1080.65	954.44	961.10	1028.86
γ 10.0	959.61	845.30	852.92	919.32
γ 11.0	850.83	750.51	754.48	823.08
γ 12.0	749.25	673.71	673.16	739.45
γ 13.0	665.99	611.95	608.70	668.40
γ 14.0	603.42	556.66	557.67	604.12
γ 15.0	553.69	507.72	511.58	547.92
γ 16.0	509.79	466.83	468.94	500.11
γ 17.0	470.75	433.74	433.27	459.20
γ 18.0	438.61	404.01	403.73	422.67
γ 19.0	409.84	377.63	377.32	392.08
γ 20.0	385.06	355.26	353.93	365.07
γ 21.0	363.14	336.54	333.62	342.80
γ 22.0	344.11	321.95	316.74	324.44
γ 23.0	327.88	309.52	302.10	309.70
γ 24.0	313.80	298.56	289.41	296.88
γ 25.0	301.91	288.82	277.64	285.17
γ 26.0	290.52	279.85	267.78	274.49
γ 27.0	280.27	271.22	258.22	265.50
γ 28.0	270.83	262.72	249.73	257.10
γ 29.0	261.81	255.26	241.91	249.07
γ 30.0	253.55	247.42	234.28	241.28
γ 31.0	245.52	240.34	227.07	234.41
γ 32.0	238.74	233.82	220.59	227.81
γ 33.0	232.32	227.71	214.12	221.75
γ 34.0	225.98	220.80	207.70	215.37
γ 35.0	219.56	214.28	202.12	210.03
γ 36.0	213.65	207.73	195.61	204.24
γ 37.0	207.90	199.84	188.02	198.04
γ 38.0	198.63	189.18	176.54	190.41
γ 39.0	185.44	175.75	161.96	180.20
γ 40.0	169.29	157.40	145.61	165.99
γ 41.0	151.49	136.12	128.08	147.85
γ 42.0	133.51	113.75	110.57	128.04
γ 43.0	114.48	90.86	91.96	105.46
γ 44.0	95.12	70.07	73.21	83.84
γ 45.0	75.56	52.97	55.35	64.33
γ 46.0	58.38	40.90	41.40	48.82

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	45.37	33.21	32.47	38.29
γ 48.0	37.22	28.57	27.61	31.55
γ 49.0	32.34	25.20	24.39	27.19
γ 50.0	28.69	22.46	21.62	23.93
γ 51.0	25.23	19.94	18.72	21.09
γ 52.0	21.88	17.35	15.66	18.53
γ 53.0	18.96	15.46	13.71	16.52
γ 54.0	16.95	13.91	12.30	14.91
γ 55.0	15.39	12.55	11.25	13.40
γ 56.0	14.11	11.56	10.38	12.16
γ 57.0	12.85	10.77	9.67	11.32
γ 58.0	11.95	10.07	9.03	10.57
γ 59.0	11.21	9.36	8.38	9.90
γ 60.0	10.41	8.69	7.78	9.23
γ 61.0	9.67	8.06	7.20	8.61
γ 62.0	9.05	7.53	6.70	8.05
γ 63.0	8.49	7.03	6.26	7.53
γ 64.0	7.98	6.57	5.85	7.06
γ 65.0	7.50	6.16	5.50	6.64
γ 66.0	7.05	5.76	5.19	6.26
γ 67.0	6.66	5.40	4.90	5.94
γ 68.0	6.28	5.08	4.64	5.63
γ 69.0	5.94	4.77	4.40	5.37
γ 70.0	5.60	4.46	4.19	5.12
γ 71.0	5.29	4.19	3.97	4.87
γ 72.0	5.00	3.92	3.77	4.64
γ 73.0	4.71	3.67	3.58	4.43
γ 74.0	4.45	3.43	3.38	4.22
γ 75.0	4.19	3.21	3.20	4.00
γ 76.0	3.92	2.99	3.01	3.79
γ 77.0	3.69	2.78	2.82	3.58
γ 78.0	3.45	2.56	2.63	3.38
γ 79.0	3.25	2.36	2.45	3.19
γ 80.0	3.02	2.17	2.26	2.99
γ 81.0	2.82	1.99	2.10	2.79
γ 82.0	2.63	1.81	1.92	2.59
γ 83.0	2.43	1.62	1.76	2.39
γ 84.0	2.26	1.45	1.58	2.22
γ 85.0	2.07	1.27	1.39	2.02
γ 86.0	1.90	1.09	1.18	1.85
γ 87.0	1.70	0.90	0.95	1.66
γ 88.0	1.50	0.66	0.72	1.45
γ 89.0	1.15	0.43	0.51	1.14
γ 90.0	0.91	0.32	0.40	0.95
γ 91.0	0.82	0.27	0.34	0.85
γ 92.0	0.74	0.22	0.28	0.77
γ 93.0	0.68	0.17	0.23	0.70

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	0.61	0.12	0.17	0.63
γ 95.0	0.55	0.07	0.12	0.55
γ 96.0	0.50	0.03	0.08	0.50
γ 97.0	0.43	0.00	0.04	0.44
γ 98.0	0.40	0.00	0.00	0.40
γ 99.0	0.35	0.00	0.00	0.35
γ 100.0	0.32	0.00	0.00	0.30
γ 101.0	0.27	0.00	0.00	0.26
γ 102.0	0.24	0.00	0.00	0.24
γ 103.0	0.22	0.00	0.00	0.21
γ 104.0	0.19	0.00	0.00	0.19
γ 105.0	0.17	0.00	0.00	0.17
γ 106.0	0.15	0.00	0.00	0.15
γ 107.0	0.14	0.00	0.00	0.13
γ 108.0	0.13	0.00	0.00	0.13
γ 109.0	0.12	0.00	0.00	0.12
γ 110.0	0.10	0.00	0.00	0.13
γ 111.0	0.10	0.00	0.00	0.13
γ 112.0	0.08	0.00	0.00	0.13
γ 113.0	0.09	0.00	0.00	0.13
γ 114.0	0.08	0.00	0.00	0.14
γ 115.0	0.08	0.00	0.00	0.16
γ 116.0	0.07	0.00	0.00	0.17
γ 117.0	0.08	0.00	0.00	0.19
γ 118.0	0.09	0.00	0.01	0.20
γ 119.0	0.10	0.00	0.04	0.22
γ 120.0	0.10	0.00	0.08	0.25
γ 121.0	0.11	0.00	0.10	0.27
γ 122.0	0.14	0.00	0.14	0.30
γ 123.0	0.15	0.00	0.16	0.32
γ 124.0	0.18	0.00	0.21	0.36
γ 125.0	0.21	0.03	0.25	0.39
γ 126.0	0.24	0.07	0.29	0.42
γ 127.0	0.27	0.11	0.34	0.46
γ 128.0	0.32	0.16	0.38	0.50
γ 129.0	0.35	0.21	0.44	0.55
γ 130.0	0.40	0.26	0.50	0.58
γ 131.0	0.46	0.31	0.56	0.64
γ 132.0	0.52	0.38	0.64	0.70
γ 133.0	0.57	0.44	0.70	0.76
γ 134.0	0.63	0.53	0.78	0.82
γ 135.0	0.71	0.61	0.86	0.90
γ 136.0	0.79	0.68	0.95	0.98
γ 137.0	0.86	0.77	1.04	1.06
γ 138.0	0.94	0.86	1.14	1.16
γ 139.0	1.03	0.95	1.23	1.24
γ 140.0	1.11	1.04	1.33	1.35

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	1.21	1.14	1.43	1.43
γ 142.0	1.30	1.24	1.53	1.53
γ 143.0	1.39	1.33	1.62	1.63
γ 144.0	1.49	1.42	1.72	1.73
γ 145.0	1.57	1.51	1.80	1.81
γ 146.0	1.66	1.61	1.89	1.89
γ 147.0	1.74	1.69	1.96	1.97
γ 148.0	1.84	1.77	2.04	2.05
γ 149.0	1.91	1.85	2.12	2.10
γ 150.0	1.99	1.92	2.18	2.17
γ 151.0	2.07	1.99	2.24	2.22
γ 152.0	2.13	2.05	2.30	2.28
γ 153.0	2.20	2.11	2.37	2.32
γ 154.0	2.28	2.17	2.42	2.38
γ 155.0	2.34	2.22	2.46	2.42
γ 156.0	2.39	2.28	2.52	2.47
γ 157.0	2.44	2.33	2.58	2.52
γ 158.0	2.50	2.38	2.63	2.57
γ 159.0	2.56	2.42	2.67	2.60
γ 160.0	2.61	2.47	2.72	2.63
γ 161.0	2.66	2.53	2.77	2.67
γ 162.0	2.72	2.58	2.80	2.71
γ 163.0	2.76	2.63	2.85	2.75
γ 164.0	2.81	2.67	2.88	2.79
γ 165.0	2.85	2.71	2.92	2.82
γ 166.0	2.90	2.77	2.96	2.84
γ 167.0	2.92	2.82	2.99	2.88
γ 168.0	2.97	2.86	3.02	2.90
γ 169.0	3.00	2.89	3.04	2.93
γ 170.0	3.03	2.92	3.06	2.96
γ 171.0	3.05	2.95	3.08	2.98
γ 172.0	3.08	2.97	3.08	3.00
γ 173.0	3.09	2.98	3.10	3.01
γ 174.0	3.10	3.00	3.11	3.03
γ 175.0	3.11	3.01	3.10	3.03
γ 176.0	3.11	3.02	3.11	3.04
γ 177.0	3.12	3.02	3.11	3.05
γ 178.0	3.12	3.04	3.12	3.06
γ 179.0	3.13	3.03	3.11	3.07
γ 180.0	3.10	3.10	3.10	3.10