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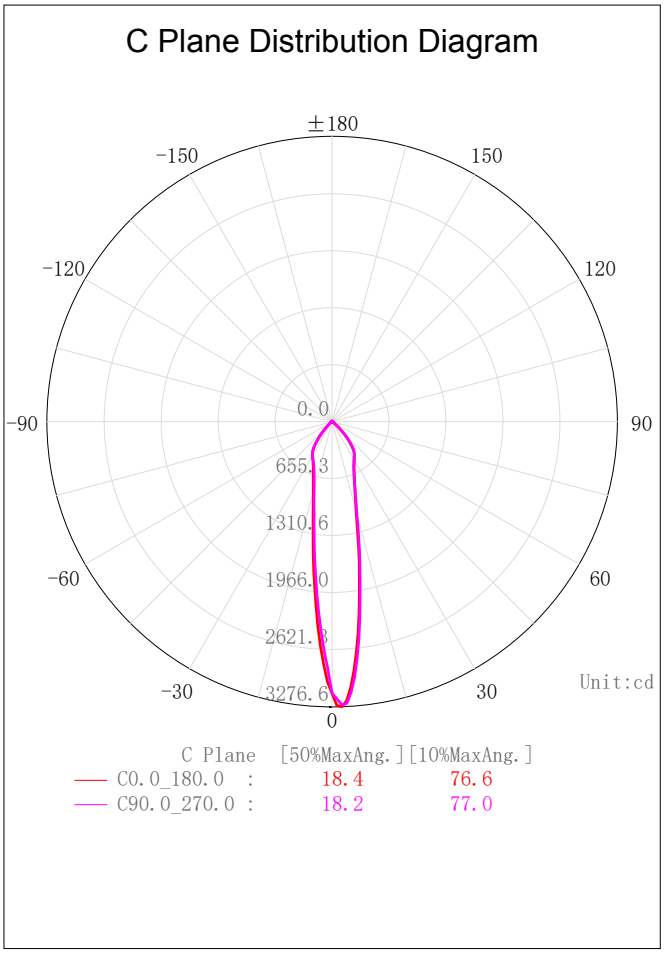
Indoor Luminaire Photometric Data

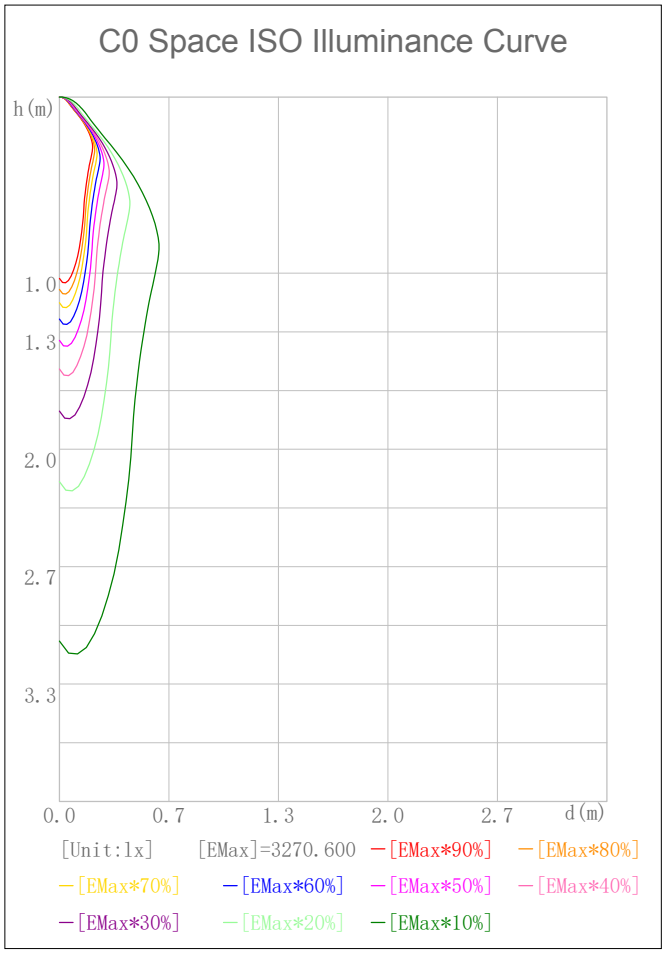
Description Information

Luminary Name: HCP-817024-5000K RA90 15D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2020/10/12
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): 1165.610	Luminary Flux(lm): 1165.612	Field Angle(10%Imax): 76.6(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1147.207lm 98.42%
Rated Voltage(V):	Luminary EER(lm/W): 73.033	Up Lumens&Percent: 18.405lm 1.58%
Tested Power(W): 15.960	Max.Candela(cd): 3276.584	S/MH: C0_a180=0.328 C90_270=0.322
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=2.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):240.3,0.068,0.967	Beam Angle(50%Imax): 18.4(°)	ErP Φuse(90°): 1061.676lm
Lamp Size(W*L*H):0.050m*0.000m*0.080m	Left=-7.5° ,Right=11.0°	IRF(%): 587.708





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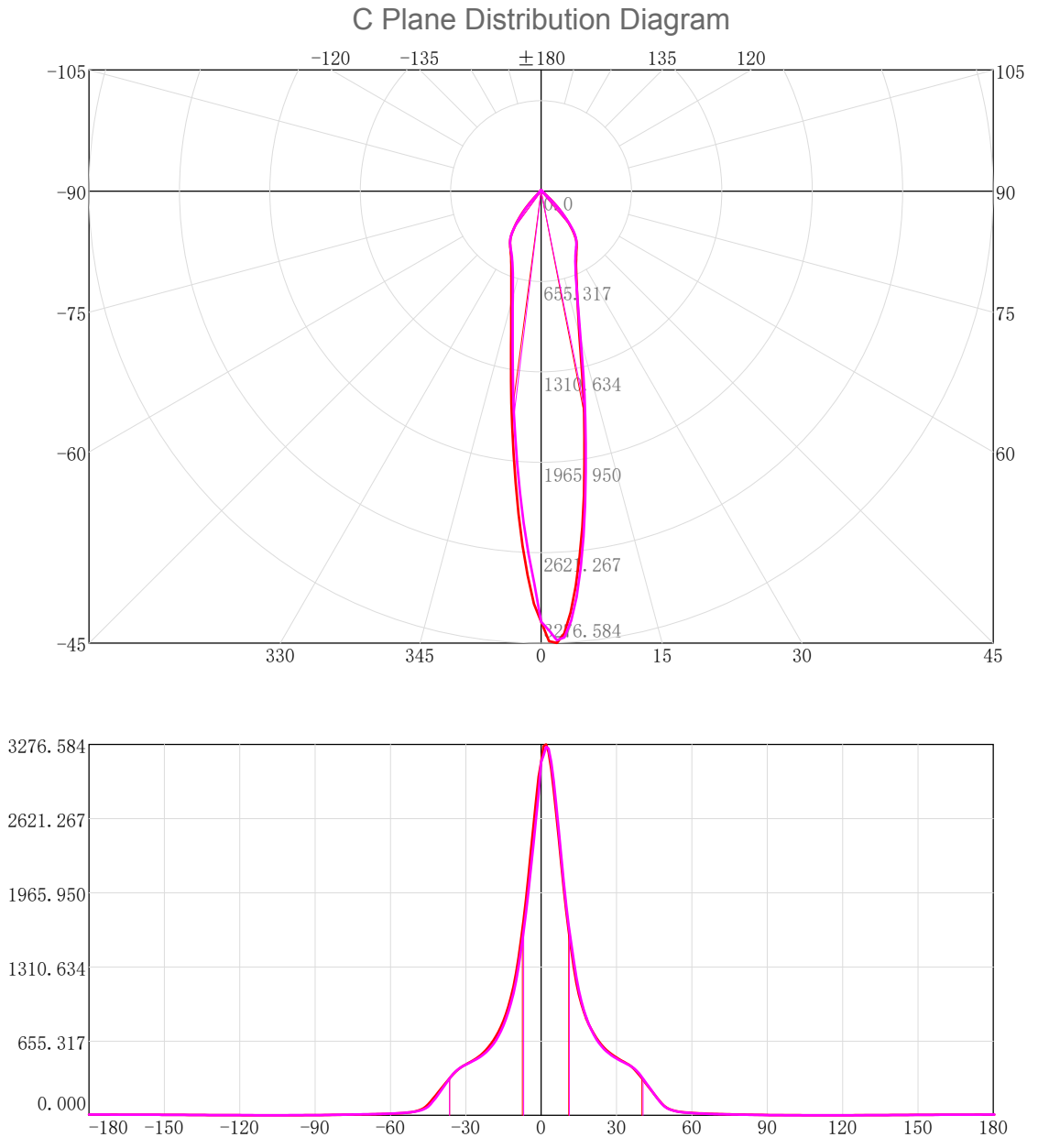
2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-817024-5000K 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: 2020/10/12



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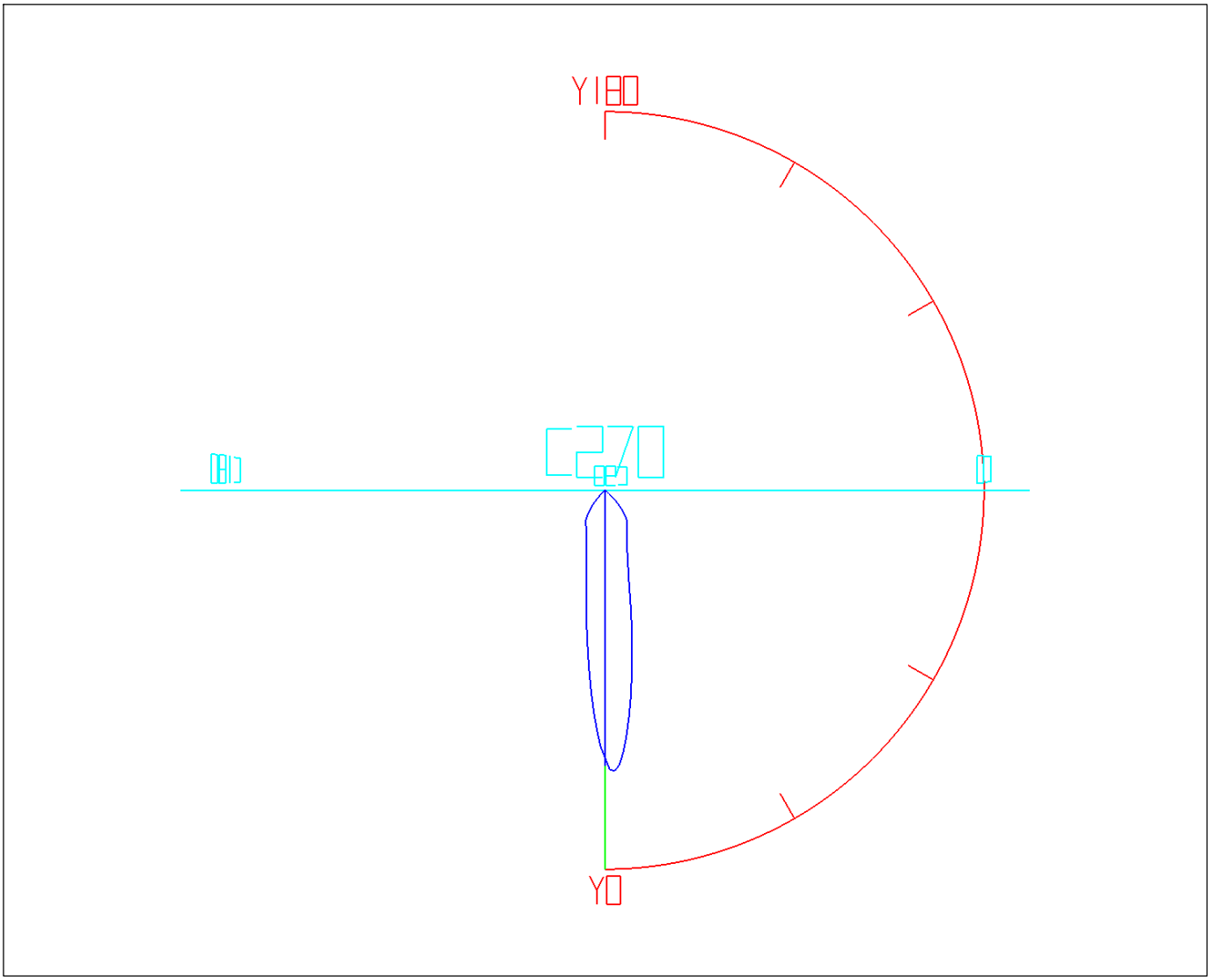
3D Light Intensity Distribution Modal

Lum.Name: HCP-817024-5000K 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: 2020/10/12

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	2.96	2.96	0.25	0.25	47.0-48.0	6.87	1082.58	0.59	92.88
1.0-2.0	8.69	11.65	0.75	1.00	48.0-49.0	5.66	1088.24	0.49	93.36
2.0-3.0	13.98	25.63	1.20	2.20	49.0-50.0	4.67	1092.92	0.40	93.76
3.0-4.0	18.53	44.17	1.59	3.79	50.0-51.0	3.95	1096.86	0.34	94.10
4.0-5.0	22.21	66.37	1.91	5.69	51.0-52.0	3.45	1100.31	0.30	94.40
5.0-6.0	25.01	91.38	2.15	7.84	52.0-53.0	3.08	1103.39	0.26	94.66
6.0-7.0	27.04	118.42	2.32	10.16	53.0-54.0	2.76	1106.15	0.24	94.90
7.0-8.0	28.36	146.78	2.43	12.59	54.0-55.0	2.50	1108.65	0.21	95.11
8.0-9.0	28.99	175.77	2.49	15.08	55.0-56.0	2.31	1110.96	0.20	95.31
9.0-10.0	29.15	204.92	2.50	17.58	56.0-57.0	2.17	1113.13	0.19	95.50
10.0-11.0	29.07	233.98	2.49	20.07	57.0-58.0	2.04	1115.17	0.17	95.67
11.0-12.0	28.80	262.78	2.47	22.54	58.0-59.0	1.92	1117.09	0.17	95.84
12.0-13.0	28.36	291.14	2.43	24.98	59.0-60.0	1.82	1118.91	0.16	95.99
13.0-14.0	27.81	318.95	2.39	27.36	60.0-61.0	1.73	1120.64	0.15	96.14
14.0-15.0	27.27	346.22	2.34	29.70	61.0-62.0	1.64	1122.28	0.14	96.28
15.0-16.0	26.86	373.08	2.30	32.01	62.0-63.0	1.56	1123.84	0.13	96.42
16.0-17.0	26.53	399.61	2.28	34.28	63.0-64.0	1.49	1125.33	0.13	96.54
17.0-18.0	26.26	425.87	2.25	36.54	64.0-65.0	1.42	1126.75	0.12	96.67
18.0-19.0	26.04	451.91	2.23	38.77	65.0-66.0	1.35	1128.10	0.12	96.78
19.0-20.0	25.86	477.77	2.22	40.99	66.0-67.0	1.30	1129.40	0.11	96.89
20.0-21.0	25.72	503.49	2.21	43.20	67.0-68.0	1.24	1130.64	0.11	97.00
21.0-22.0	25.62	529.11	2.20	45.39	68.0-69.0	1.19	1131.83	0.10	97.10
22.0-23.0	25.57	554.68	2.19	47.59	69.0-70.0	1.14	1132.97	0.10	97.20
23.0-24.0	25.56	580.24	2.19	49.78	70.0-71.0	1.10	1134.06	0.09	97.29
24.0-25.0	25.59	605.84	2.20	51.98	71.0-72.0	1.05	1135.12	0.09	97.38
25.0-26.0	25.66	631.49	2.20	54.18	72.0-73.0	1.01	1136.12	0.09	97.47
26.0-27.0	25.76	657.25	2.21	56.39	73.0-74.0	0.97	1137.09	0.08	97.55
27.0-28.0	25.88	683.13	2.22	58.61	74.0-75.0	0.92	1138.01	0.08	97.63
28.0-29.0	26.01	709.14	2.23	60.84	75.0-76.0	0.88	1138.90	0.08	97.71
29.0-30.0	26.14	735.28	2.24	63.08	76.0-77.0	0.84	1139.74	0.07	97.78
30.0-31.0	26.25	761.53	2.25	65.33	77.0-78.0	0.80	1140.55	0.07	97.85
31.0-32.0	26.30	787.82	2.26	67.59	78.0-79.0	0.76	1141.31	0.07	97.92
32.0-33.0	26.26	814.08	2.25	69.84	79.0-80.0	0.73	1142.04	0.06	97.98
33.0-34.0	26.09	840.17	2.24	72.08	80.0-81.0	0.69	1142.73	0.06	98.04
34.0-35.0	25.74	865.91	2.21	74.29	81.0-82.0	0.65	1143.38	0.06	98.09
35.0-36.0	25.15	891.06	2.16	76.45	82.0-83.0	0.62	1143.99	0.05	98.15
36.0-37.0	24.31	915.37	2.09	78.53	83.0-84.0	0.58	1144.57	0.05	98.20
37.0-38.0	23.26	938.63	2.00	80.53	84.0-85.0	0.54	1145.12	0.05	98.24
38.0-39.0	22.00	960.63	1.89	82.41	85.0-86.0	0.50	1145.62	0.04	98.28
39.0-40.0	20.54	981.17	1.76	84.18	86.0-87.0	0.45	1146.07	0.04	98.32
40.0-41.0	18.91	1000.08	1.62	85.80	87.0-88.0	0.41	1146.49	0.04	98.36
41.0-42.0	17.16	1017.24	1.47	87.27	88.0-89.0	0.38	1146.86	0.03	98.39
42.0-43.0	15.32	1032.56	1.31	88.59	89.0-90.0	0.34	1147.21	0.03	98.42
43.0-44.0	13.45	1046.01	1.15	89.74	90.0-91.0	0.31	1147.52	0.03	98.45
44.0-45.0	11.60	1057.61	1.00	90.73	91.0-92.0	0.29	1147.81	0.02	98.47
45.0-46.0	9.85	1067.45	0.84	91.58	92.0-93.0	0.27	1148.08	0.02	98.50
46.0-47.0	8.26	1075.71	0.71	92.29	93.0-94.0	0.26	1148.34	0.02	98.52

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Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.25	1148.59	0.02	98.54
95.0-96.0	0.24	1148.83	0.02	98.56
96.0-97.0	0.23	1149.06	0.02	98.58
97.0-98.0	0.22	1149.28	0.02	98.60
98.0-99.0	0.21	1149.49	0.02	98.62
99.0-100.0	0.20	1149.69	0.02	98.63
100.0-101.0	0.20	1149.89	0.02	98.65
101.0-102.0	0.19	1150.08	0.02	98.67
102.0-103.0	0.19	1150.27	0.02	98.68
103.0-104.0	0.18	1150.45	0.02	98.70
104.0-105.0	0.18	1150.63	0.02	98.71
105.0-106.0	0.17	1150.80	0.01	98.73
106.0-107.0	0.17	1150.97	0.01	98.74
107.0-108.0	0.17	1151.14	0.01	98.76
108.0-109.0	0.17	1151.31	0.01	98.77
109.0-110.0	0.17	1151.48	0.01	98.79
110.0-111.0	0.17	1151.64	0.01	98.80
111.0-112.0	0.17	1151.81	0.01	98.82
112.0-113.0	0.17	1151.98	0.01	98.83
113.0-114.0	0.17	1152.14	0.01	98.84
114.0-115.0	0.17	1152.31	0.01	98.86
115.0-116.0	0.17	1152.48	0.01	98.87
116.0-117.0	0.17	1152.65	0.01	98.89
117.0-118.0	0.17	1152.82	0.01	98.90
118.0-119.0	0.17	1152.99	0.01	98.92
119.0-120.0	0.17	1153.16	0.01	98.93
120.0-121.0	0.18	1153.34	0.02	98.95
121.0-122.0	0.18	1153.52	0.02	98.96
122.0-123.0	0.18	1153.70	0.02	98.98
123.0-124.0	0.19	1153.89	0.02	98.99
124.0-125.0	0.19	1154.08	0.02	99.01
125.0-126.0	0.19	1154.27	0.02	99.03
126.0-127.0	0.20	1154.47	0.02	99.04
127.0-128.0	0.20	1154.67	0.02	99.06
128.0-129.0	0.21	1154.87	0.02	99.08
129.0-130.0	0.21	1155.08	0.02	99.10
130.0-131.0	0.22	1155.30	0.02	99.12
131.0-132.0	0.22	1155.52	0.02	99.13
132.0-133.0	0.23	1155.74	0.02	99.15
133.0-134.0	0.23	1155.98	0.02	99.17
134.0-135.0	0.24	1156.22	0.02	99.19
135.0-136.0	0.24	1156.46	0.02	99.22
136.0-137.0	0.25	1156.71	0.02	99.24
137.0-138.0	0.26	1156.97	0.02	99.26
138.0-139.0	0.26	1157.23	0.02	99.28
139.0-140.0	0.27	1157.50	0.02	99.30
140.0-141.0	0.27	1157.77	0.02	99.33
141.0-142.0	0.28	1158.05	0.02	99.35
142.0-143.0	0.28	1158.34	0.02	99.38
143.0-144.0	0.29	1158.62	0.02	99.40
144.0-145.0	0.29	1158.91	0.02	99.43
145.0-146.0	0.29	1159.20	0.03	99.45
146.0-147.0	0.29	1159.50	0.03	99.48
147.0-148.0	0.29	1159.79	0.03	99.50
148.0-149.0	0.29	1160.08	0.03	99.53
149.0-150.0	0.29	1160.37	0.02	99.55
150.0-151.0	0.29	1160.66	0.02	99.58
151.0-152.0	0.29	1160.95	0.02	99.60
152.0-153.0	0.28	1161.23	0.02	99.62
153.0-154.0	0.28	1161.51	0.02	99.65
154.0-155.0	0.27	1161.78	0.02	99.67
155.0-156.0	0.27	1162.05	0.02	99.69
156.0-157.0	0.26	1162.31	0.02	99.72
157.0-158.0	0.25	1162.56	0.02	99.74
158.0-159.0	0.25	1162.81	0.02	99.76
159.0-160.0	0.24	1163.05	0.02	99.78
160.0-161.0	0.23	1163.28	0.02	99.80
161.0-162.0	0.22	1163.50	0.02	99.82
162.0-163.0	0.21	1163.72	0.02	99.84
163.0-164.0	0.20	1163.92	0.02	99.86
164.0-165.0	0.19	1164.12	0.02	99.87
165.0-166.0	0.18	1164.30	0.02	99.89
166.0-167.0	0.17	1164.48	0.01	99.90
167.0-168.0	0.16	1164.64	0.01	99.92
168.0-169.0	0.15	1164.79	0.01	99.93
169.0-170.0	0.14	1164.93	0.01	99.94
170.0-171.0	0.13	1165.06	0.01	99.95
171.0-172.0	0.11	1165.17	0.01	99.96
172.0-173.0	0.10	1165.28	0.01	99.97
173.0-174.0	0.09	1165.36	0.01	99.98
174.0-175.0	0.08	1165.44	0.01	99.99
175.0-176.0	0.06	1165.50	0.01	99.99
176.0-177.0	0.05	1165.55	0.00	99.99
177.0-178.0	0.03	1165.58	0.00	100.00
178.0-179.0	0.02	1165.61	0.00	100.00
179.0-180.0	0.01	1165.61	0.00	100.00

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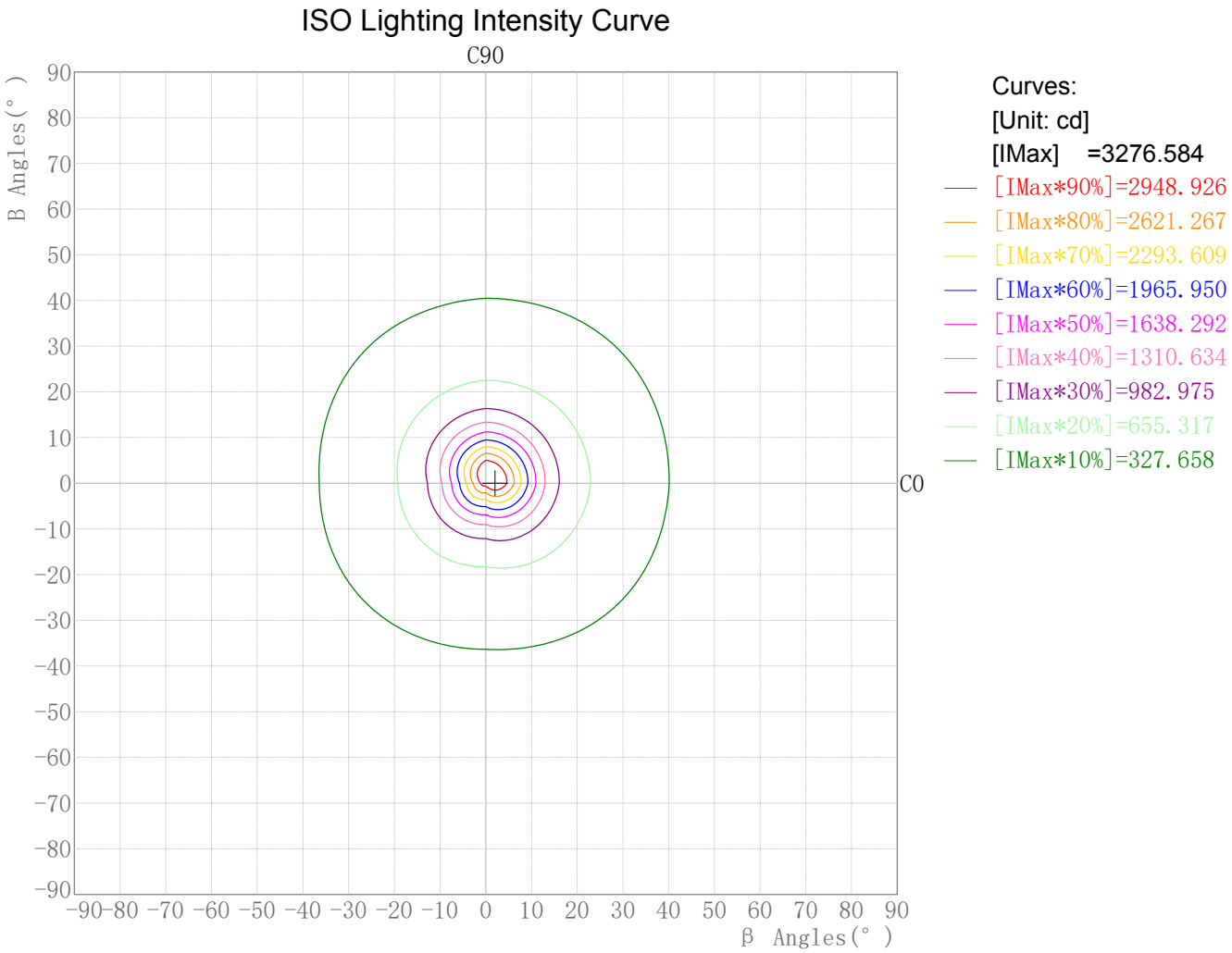
Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-817024-5000K 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: 2020/10/12



Maximum Light Intensity(cd): 3276.58
Maximum Cand.@Angle: H=2.0°,V=0.0°

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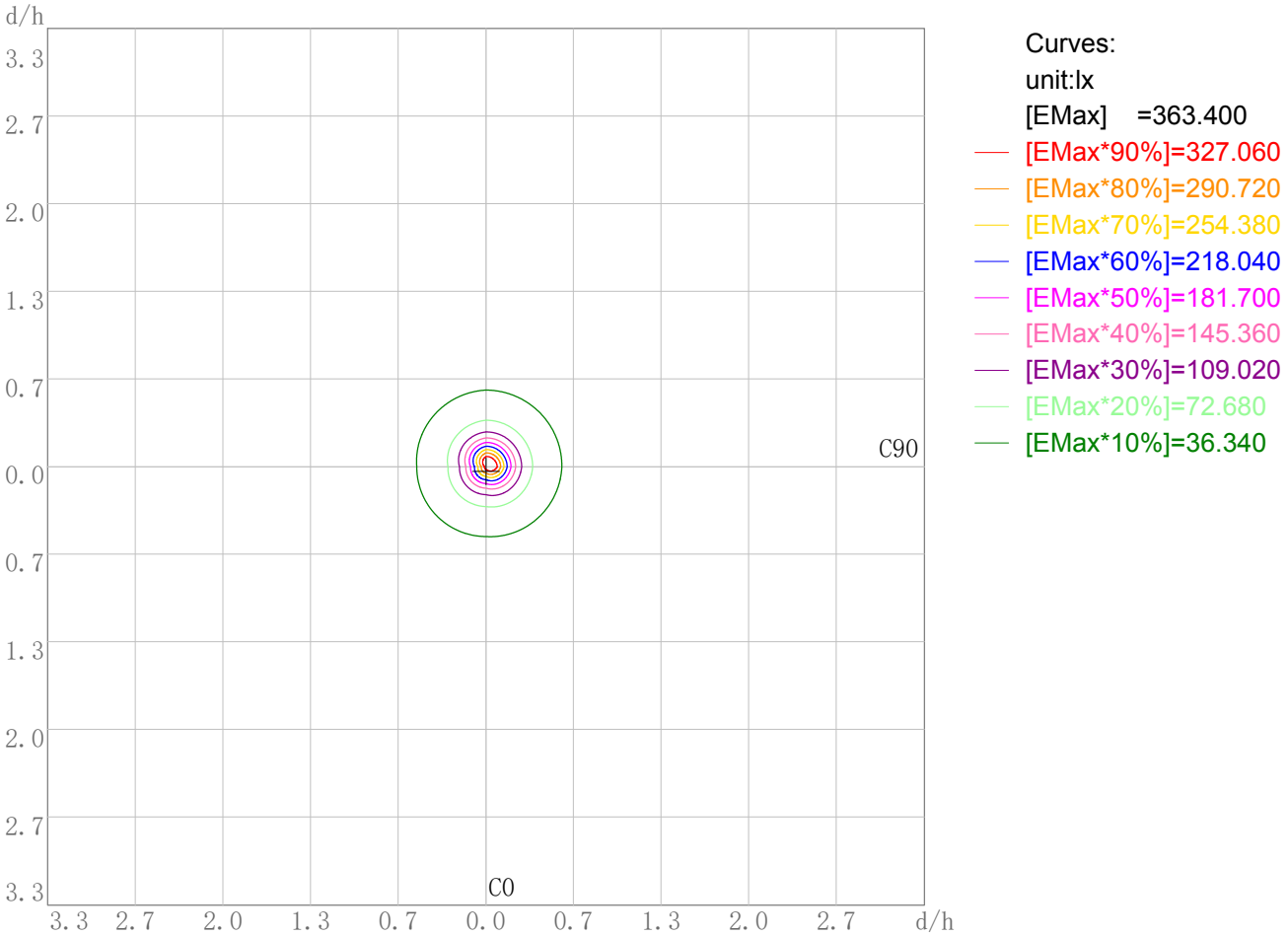
Plane ISO-Illuminance Diagram

Lum.Name: HCP-817024-5000K 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: 2020/10/12

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 363.40
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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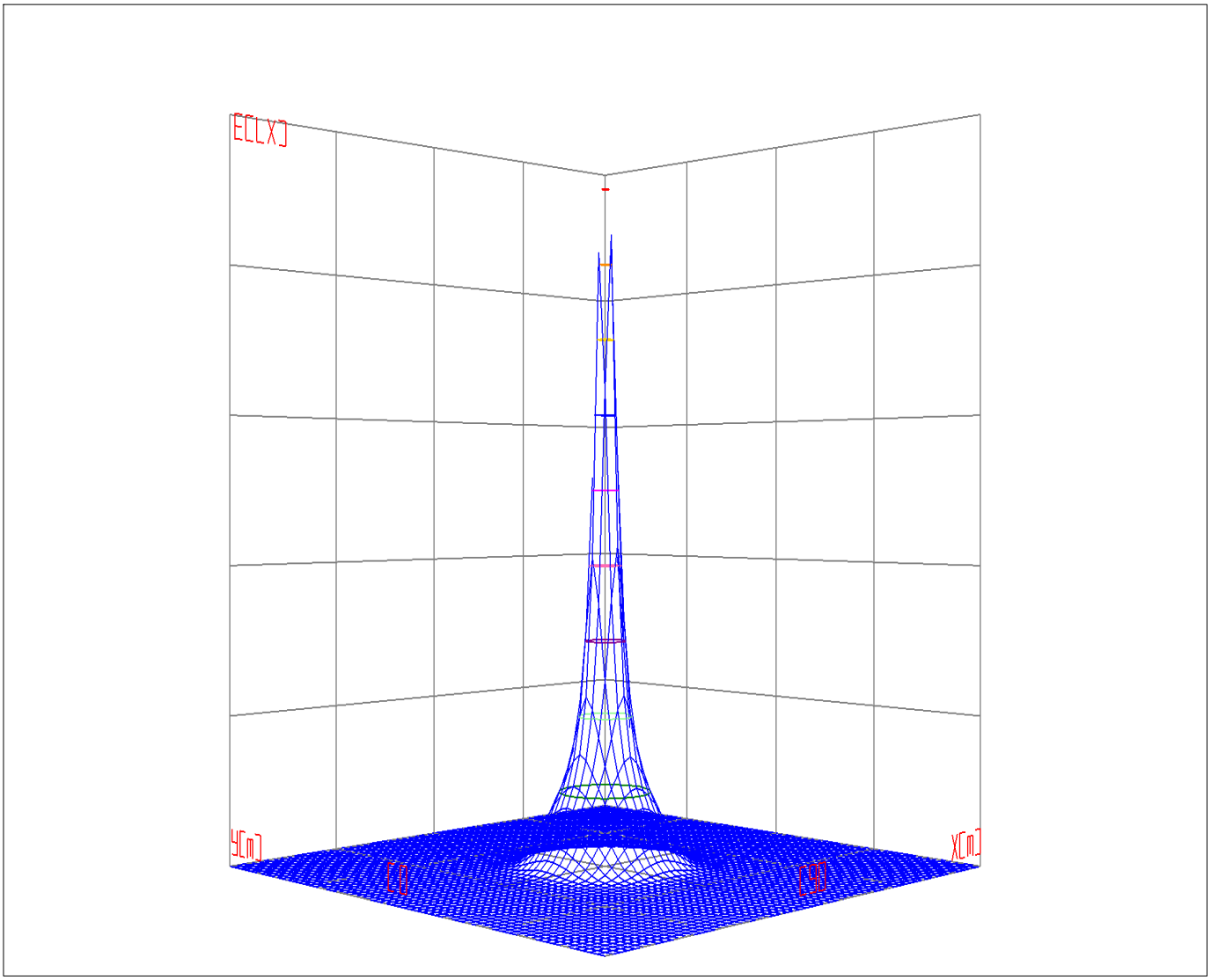
3D Plane ISO Illuminance Diagram

Lum.Name: HCP-817024-5000K 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: 2020/10/12

3D Plane Illuminance Modal

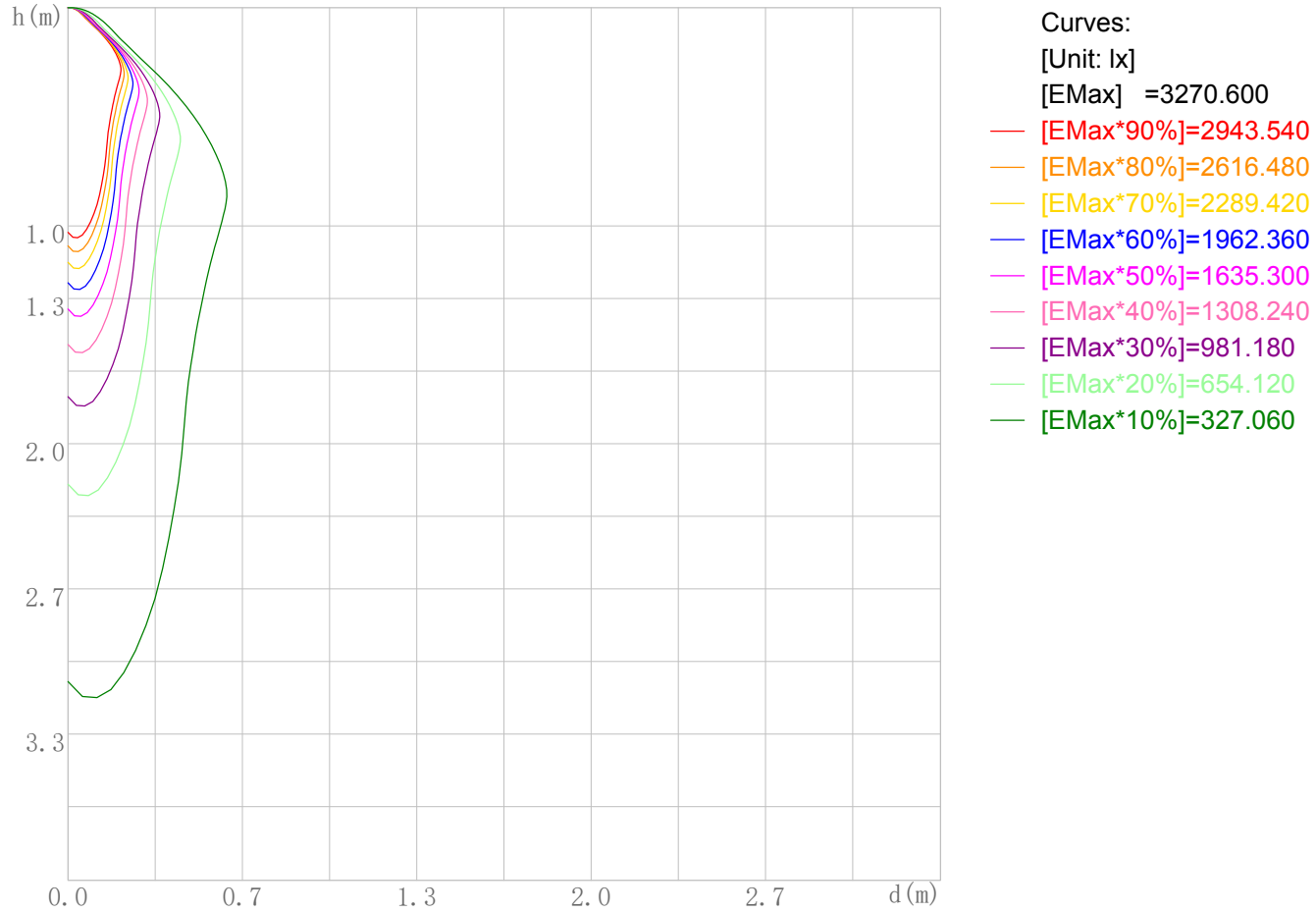


Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum.Name: HCP-817024-5000K 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: 2020/10/12

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:3270.60lx,2.0deg
Plane Maximum Lighting Intensity and @Angle:3276.584cd,0eg

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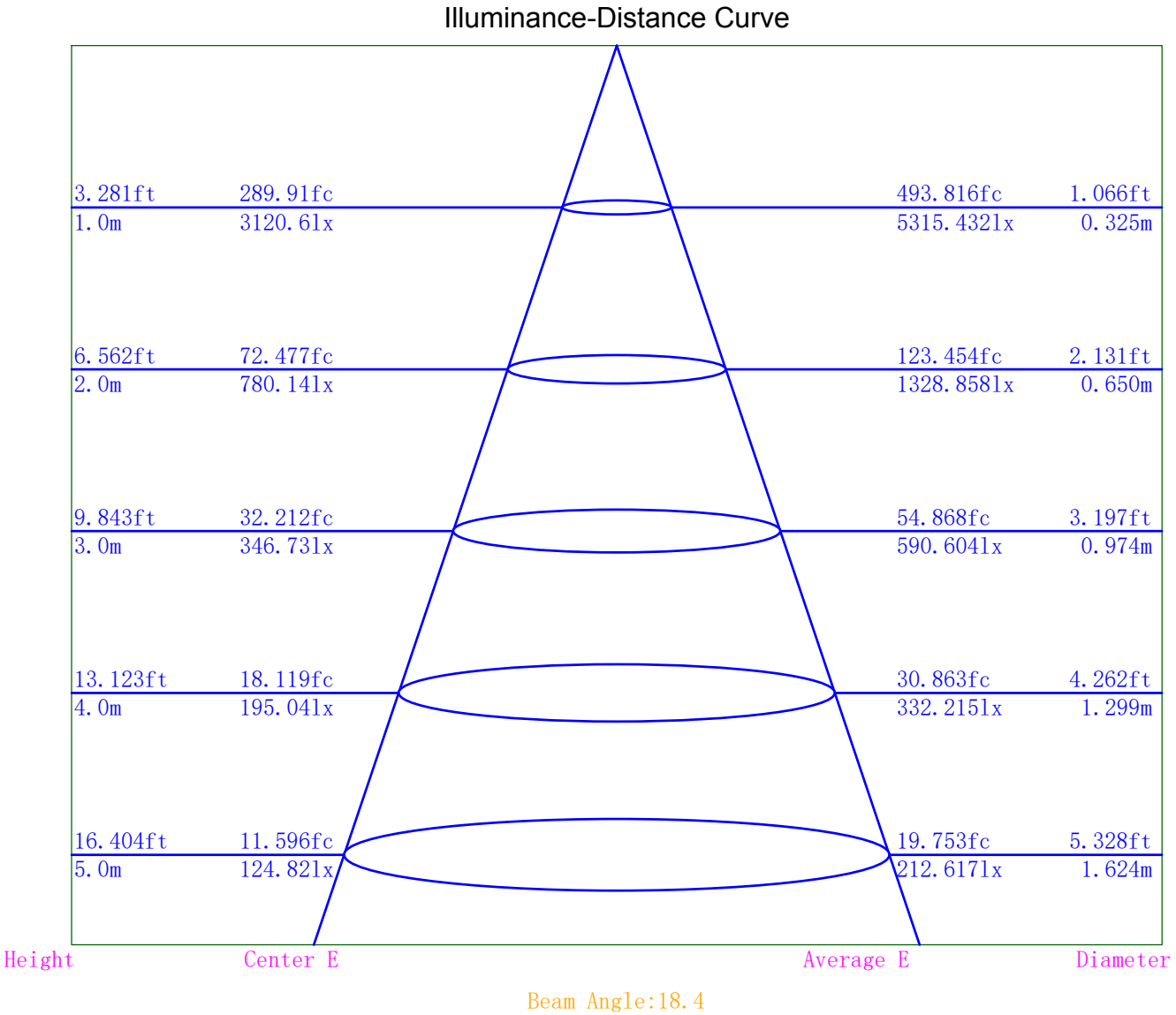
Illuminance-Distance Diagram

Lum.Name: HCP-817024-5000K 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: 2020/10/12



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Indoor Luminance Limiting Curves

Lum.Name: HCP-817024-5000K 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: 2020/10/12

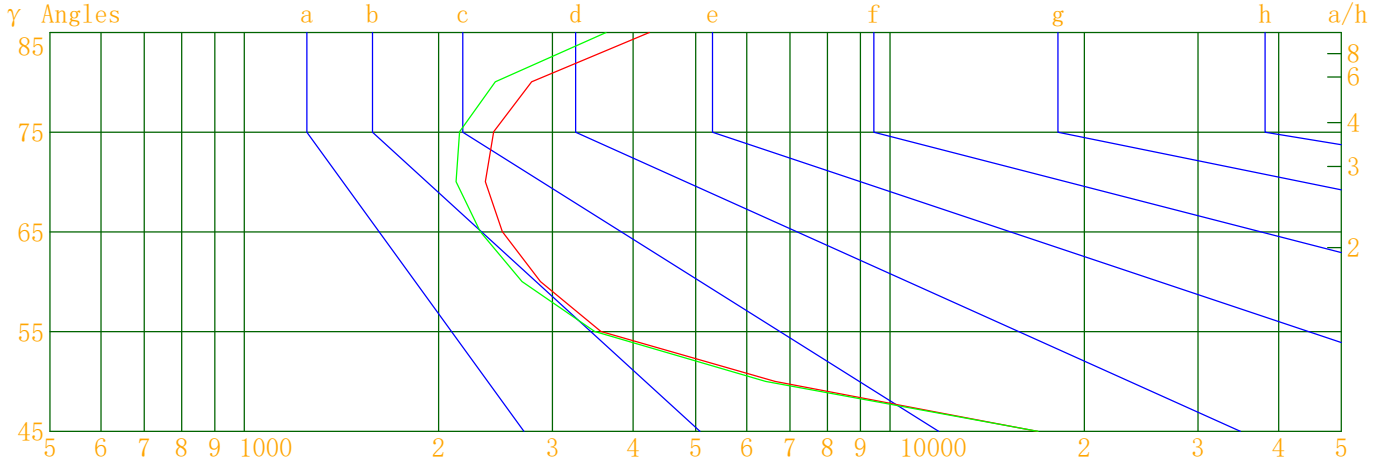
Glare Grade Table

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	16925	6639	3567	2875	2510	2362	2433	2786	4239
C90	16964	6420	3488	2692	2320	2128	2155	2448	3634

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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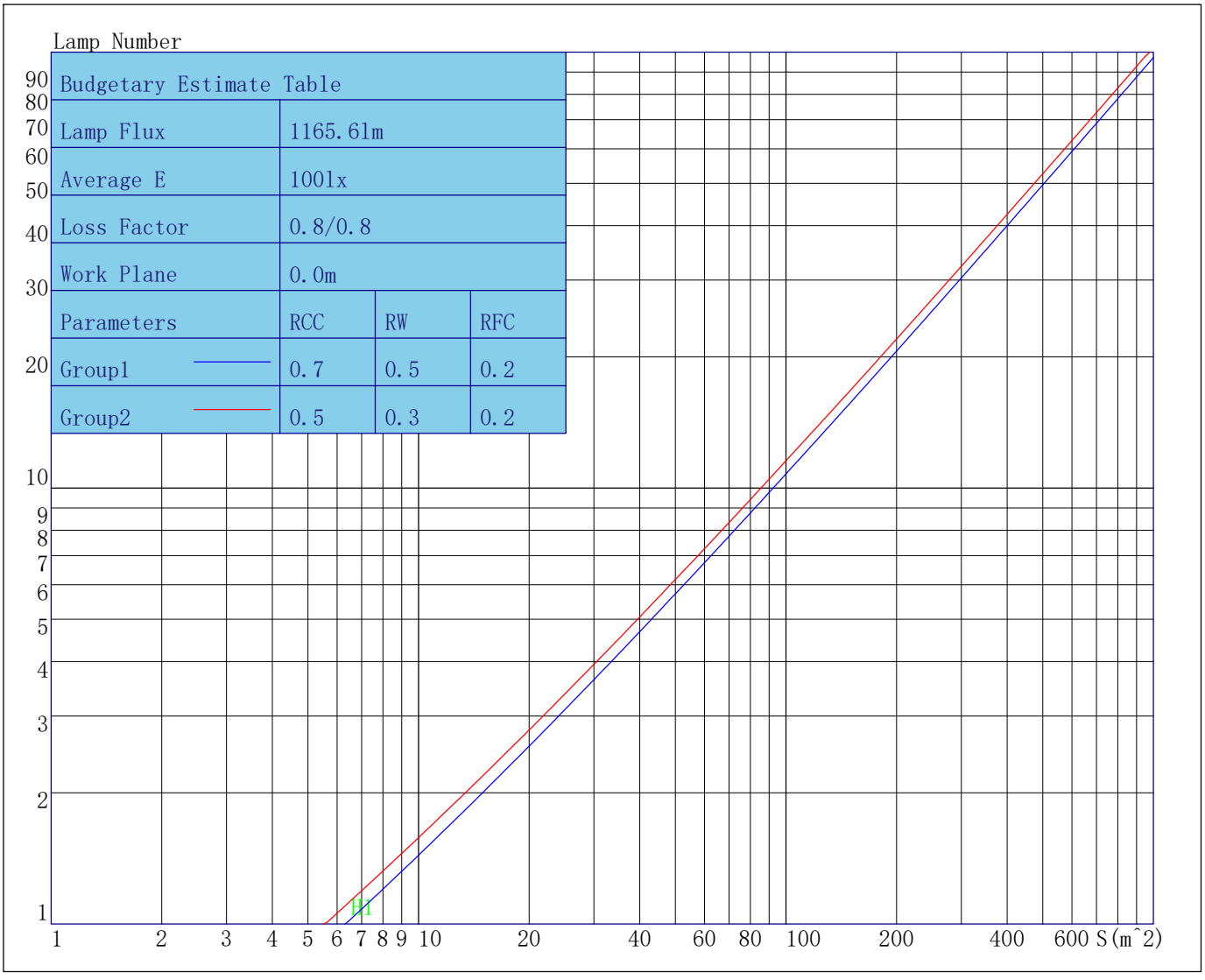
Indoor Budgetary Estimate Table

Lum.Name: HCP-817024-5000K 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: 2020/10/12



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-817024-5000K 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: 2020/10/12

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	110	110	110	105	105	105	101	101	101	98
1	113	110	107	105	110	107	105	103	103	101	100	99	98	96	95	94	93	91
2	107	102	98	94	104	100	96	93	96	93	91	93	91	88	90	88	86	85
3	101	95	89	85	99	93	88	85	90	86	83	88	84	81	85	82	80	78
4	96	88	83	78	94	87	82	78	85	80	77	82	79	76	80	77	75	73
5	91	83	77	72	89	82	76	72	80	75	71	78	74	70	76	72	70	68
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	68	64	61	60
8	79	69	63	59	77	68	63	59	67	62	58	66	61	58	65	61	58	56
9	75	65	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	53	71	62	56	52	61	56	52	60	55	52	59	55	52	51

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Unified Glare Rating Table

Lum.Name: HCP-817024-5000K 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: 2020/10/12

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	17.9	18.9	18.3	19.3	19.6	17.9	19.0	18.3	19.3	19.7
	Y=3H	17.9	18.8	18.3	19.2	19.6	17.9	18.8	18.3	19.2	19.6
	Y=4H	17.9	18.7	18.3	19.1	19.5	17.9	18.7	18.3	19.1	19.5
	Y=6H	17.9	18.7	18.4	19.1	19.5	17.9	18.6	18.3	19.0	19.5
	Y=8H	17.9	18.7	18.4	19.1	19.5	17.9	18.6	18.3	19.0	19.5
	Y=12H	18.0	18.7	18.4	19.1	19.6	17.9	18.6	18.4	19.0	19.5
X=4H	Y=2H	17.7	18.5	18.1	18.9	19.4	17.7	18.6	18.1	18.9	19.4
	Y=3H	17.7	18.4	18.2	18.9	19.3	17.7	18.4	18.2	18.8	19.3
	Y=4H	17.8	18.4	18.2	18.8	19.3	17.7	18.4	18.2	18.8	19.3
	Y=6H	17.9	18.4	18.4	18.9	19.4	17.8	18.3	18.3	18.8	19.3
	Y=8H	18.0	18.5	18.5	18.9	19.4	17.9	18.3	18.4	18.8	19.3
	Y=12H	18.1	18.5	18.6	19.0	19.5	17.9	18.4	18.4	18.9	19.4
X=8H	Y=4H	17.7	18.2	18.2	18.7	19.2	17.6	18.1	18.1	18.6	19.1
	Y=6H	17.9	18.3	18.4	18.8	19.4	17.8	18.2	18.3	18.7	19.3
	Y=8H	18.0	18.4	18.6	18.9	19.4	17.9	18.2	18.4	18.8	19.3
	Y=12H	18.2	18.5	18.8	19.1	19.7	18.1	18.4	18.6	18.9	19.5
X=12H	Y=4H	17.6	18.1	18.2	18.6	19.1	17.6	18.0	18.1	18.5	19.1
	Y=6H	17.9	18.2	18.4	18.7	19.3	17.8	18.1	18.3	18.6	19.2
	Y=8H	18.0	18.3	18.6	18.9	19.5	17.9	18.2	18.5	18.7	19.3
Variations with the observer position at spacings											
S=1.0H		0.2/-0.2					0.2/-0.2				
S=1.5H		0.3/-0.4					0.4/-0.4				
S=2.0H		0.5/-0.5					0.5/-0.5				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		0.8					0.6				

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	3120.57	3120.57	3120.57	3120.57
γ 1.0	3262.15	3181.55	2991.03	2841.15
γ 2.0	3276.58	3256.51	2786.47	2630.97
γ 3.0	3208.53	3238.95	2571.41	2409.06
γ 4.0	3060.35	3121.04	2345.35	2191.73
γ 5.0	2872.52	2952.95	2118.26	1984.35
γ 6.0	2665.86	2742.80	1908.78	1791.80
γ 7.0	2452.84	2523.21	1721.62	1619.58
γ 8.0	2226.31	2292.11	1551.01	1461.32
γ 9.0	2006.92	2063.28	1392.69	1313.49
γ 10.0	1808.46	1858.67	1256.60	1185.31
γ 11.0	1631.09	1676.05	1140.77	1078.57
γ 12.0	1461.60	1514.06	1044.92	990.23
γ 13.0	1306.02	1362.55	963.44	915.92
γ 14.0	1173.57	1223.11	894.26	851.01
γ 15.0	1069.37	1106.07	835.39	793.56
γ 16.0	987.53	1011.32	783.31	744.69
γ 17.0	917.34	931.61	738.46	701.43
γ 18.0	855.08	864.64	698.90	663.50
γ 19.0	803.08	807.42	663.22	630.29
γ 20.0	759.02	755.36	631.34	601.75
γ 21.0	719.61	711.41	602.45	577.28
γ 22.0	684.07	672.72	576.76	555.97
γ 23.0	652.61	639.92	554.30	537.41
γ 24.0	624.72	612.96	533.72	521.16
γ 25.0	599.59	587.32	516.76	506.32
γ 26.0	578.06	565.66	500.92	492.93
γ 27.0	558.71	547.26	486.69	481.19
γ 28.0	541.79	529.98	473.74	469.74
γ 29.0	525.85	514.87	462.04	458.61
γ 30.0	511.12	502.30	449.08	448.28
γ 31.0	497.43	490.11	437.15	436.93
γ 32.0	484.36	478.29	424.02	423.48
γ 33.0	472.36	467.64	407.08	408.01
γ 34.0	459.90	456.42	387.05	389.81
γ 35.0	446.73	444.69	364.43	365.89
γ 36.0	430.35	430.75	338.88	337.71
γ 37.0	408.77	415.19	312.42	307.73
γ 38.0	385.03	395.52	285.76	277.01
γ 39.0	359.26	371.25	258.74	245.95
γ 40.0	331.33	342.30	231.33	215.45
γ 41.0	302.90	312.42	204.23	184.47
γ 42.0	274.37	281.20	176.15	153.41
γ 43.0	245.41	249.82	148.47	125.14
γ 44.0	216.89	219.13	121.46	98.86
γ 45.0	187.99	188.42	97.53	77.02
γ 46.0	159.42	158.31	76.59	61.86

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	132.24	129.46	61.26	51.67
γ 48.0	106.76	102.99	50.56	44.65
γ 49.0	84.34	80.96	42.33	38.96
γ 50.0	67.03	64.82	35.71	34.18
γ 51.0	55.75	53.87	31.02	30.73
γ 52.0	48.12	46.32	27.75	28.01
γ 53.0	41.50	40.53	25.48	25.58
γ 54.0	35.84	35.19	22.91	23.43
γ 55.0	32.13	31.43	21.01	21.84
γ 56.0	29.63	28.61	19.50	20.40
γ 57.0	27.54	26.44	18.18	19.15
γ 58.0	25.67	24.46	16.96	17.94
γ 59.0	24.05	22.71	15.93	16.96
γ 60.0	22.58	21.15	14.99	16.01
γ 61.0	21.14	19.72	14.15	15.13
γ 62.0	19.85	18.44	13.31	14.32
γ 63.0	18.76	17.33	12.57	13.62
γ 64.0	17.71	16.35	11.91	12.96
γ 65.0	16.66	15.40	11.33	12.38
γ 66.0	15.73	14.43	10.82	11.86
γ 67.0	14.87	13.56	10.34	11.41
γ 68.0	14.10	12.79	9.91	10.97
γ 69.0	13.36	12.08	9.51	10.55
γ 70.0	12.69	11.44	9.12	10.14
γ 71.0	12.07	10.84	8.77	9.73
γ 72.0	11.48	10.26	8.41	9.32
γ 73.0	10.94	9.73	8.04	8.93
γ 74.0	10.41	9.22	7.69	8.54
γ 75.0	9.89	8.76	7.34	8.16
γ 76.0	9.39	8.30	7.00	7.78
γ 77.0	8.91	7.87	6.64	7.40
γ 78.0	8.46	7.46	6.29	7.02
γ 79.0	8.02	7.07	5.95	6.66
γ 80.0	7.60	6.68	5.63	6.31
γ 81.0	7.20	6.30	5.28	5.97
γ 82.0	6.82	5.95	4.96	5.62
γ 83.0	6.48	5.59	4.63	5.27
γ 84.0	6.13	5.28	4.30	4.93
γ 85.0	5.80	4.97	3.92	4.51
γ 86.0	5.43	4.66	3.53	3.90
γ 87.0	5.01	4.36	2.97	3.39
γ 88.0	4.57	3.97	2.64	3.16
γ 89.0	4.10	3.56	2.49	3.01
γ 90.0	3.55	3.15	2.38	2.88
γ 91.0	3.17	2.62	2.27	2.75
γ 92.0	2.99	2.38	2.17	2.63
γ 93.0	2.86	2.28	2.07	2.51

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	2.74	2.18	1.98	2.41
γ 95.0	2.63	2.09	1.89	2.31
γ 96.0	2.52	2.00	1.82	2.23
γ 97.0	2.42	1.92	1.75	2.15
γ 98.0	2.33	1.84	1.68	2.08
γ 99.0	2.24	1.77	1.63	2.03
γ 100.0	2.17	1.71	1.60	1.97
γ 101.0	2.10	1.64	1.54	1.92
γ 102.0	2.04	1.60	1.53	1.89
γ 103.0	1.97	1.54	1.51	1.86
γ 104.0	1.92	1.50	1.49	1.84
γ 105.0	1.87	1.47	1.47	1.81
γ 106.0	1.85	1.44	1.46	1.81
γ 107.0	1.80	1.42	1.48	1.81
γ 108.0	1.78	1.40	1.49	1.81
γ 109.0	1.75	1.39	1.49	1.81
γ 110.0	1.73	1.39	1.52	1.82
γ 111.0	1.72	1.38	1.54	1.84
γ 112.0	1.72	1.39	1.56	1.86
γ 113.0	1.71	1.40	1.61	1.89
γ 114.0	1.70	1.40	1.63	1.92
γ 115.0	1.71	1.42	1.67	1.95
γ 116.0	1.71	1.42	1.72	1.99
γ 117.0	1.72	1.43	1.77	2.03
γ 118.0	1.73	1.45	1.84	2.08
γ 119.0	1.75	1.47	1.89	2.12
γ 120.0	1.78	1.50	1.95	2.18
γ 121.0	1.81	1.52	2.01	2.23
γ 122.0	1.84	1.56	2.08	2.29
γ 123.0	1.87	1.60	2.16	2.36
γ 124.0	1.91	1.64	2.23	2.42
γ 125.0	1.96	1.70	2.31	2.50
γ 126.0	2.03	1.76	2.39	2.58
γ 127.0	2.10	1.82	2.49	2.66
γ 128.0	2.17	1.90	2.58	2.76
γ 129.0	2.23	1.97	2.68	2.86
γ 130.0	2.31	2.06	2.79	2.97
γ 131.0	2.41	2.15	2.91	3.08
γ 132.0	2.49	2.26	3.03	3.19
γ 133.0	2.60	2.35	3.17	3.33
γ 134.0	2.71	2.46	3.31	3.47
γ 135.0	2.82	2.58	3.44	3.60
γ 136.0	2.95	2.69	3.60	3.75
γ 137.0	3.07	2.83	3.76	3.92
γ 138.0	3.21	2.96	3.91	4.09
γ 139.0	3.34	3.11	4.09	4.25
γ 140.0	3.48	3.25	4.26	4.41

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	3.63	3.40	4.42	4.57
γ 142.0	3.78	3.56	4.57	4.74
γ 143.0	3.94	3.71	4.74	4.89
γ 144.0	4.10	3.88	4.89	5.03
γ 145.0	4.27	4.04	5.03	5.16
γ 146.0	4.41	4.21	5.17	5.28
γ 147.0	4.57	4.38	5.30	5.39
γ 148.0	4.71	4.53	5.43	5.50
γ 149.0	4.87	4.68	5.52	5.60
γ 150.0	5.01	4.82	5.64	5.69
γ 151.0	5.14	4.95	5.76	5.79
γ 152.0	5.26	5.06	5.86	5.88
γ 153.0	5.38	5.19	5.94	5.97
γ 154.0	5.50	5.32	6.04	6.04
γ 155.0	5.62	5.42	6.14	6.12
γ 156.0	5.74	5.53	6.23	6.20
γ 157.0	5.84	5.63	6.31	6.28
γ 158.0	5.95	5.73	6.40	6.36
γ 159.0	6.06	5.83	6.47	6.43
γ 160.0	6.15	5.92	6.57	6.49
γ 161.0	6.25	6.01	6.65	6.57
γ 162.0	6.35	6.10	6.73	6.62
γ 163.0	6.44	6.20	6.79	6.69
γ 164.0	6.52	6.29	6.87	6.75
γ 165.0	6.62	6.39	6.93	6.82
γ 166.0	6.71	6.47	7.00	6.88
γ 167.0	6.78	6.57	7.05	6.93
γ 168.0	6.86	6.67	7.11	6.98
γ 169.0	6.92	6.75	7.15	7.03
γ 170.0	6.99	6.83	7.18	7.08
γ 171.0	7.05	6.90	7.22	7.11
γ 172.0	7.12	6.96	7.22	7.13
γ 173.0	7.16	7.02	7.25	7.16
γ 174.0	7.20	7.07	7.24	7.16
γ 175.0	7.23	7.11	7.26	7.19
γ 176.0	7.24	7.15	7.26	7.21
γ 177.0	7.25	7.16	7.27	7.23
γ 178.0	7.26	7.19	7.27	7.25
γ 179.0	7.27	7.20	7.27	7.27
γ 180.0	7.26	7.26	7.26	7.26