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Indoor Luminaire Photometric Data

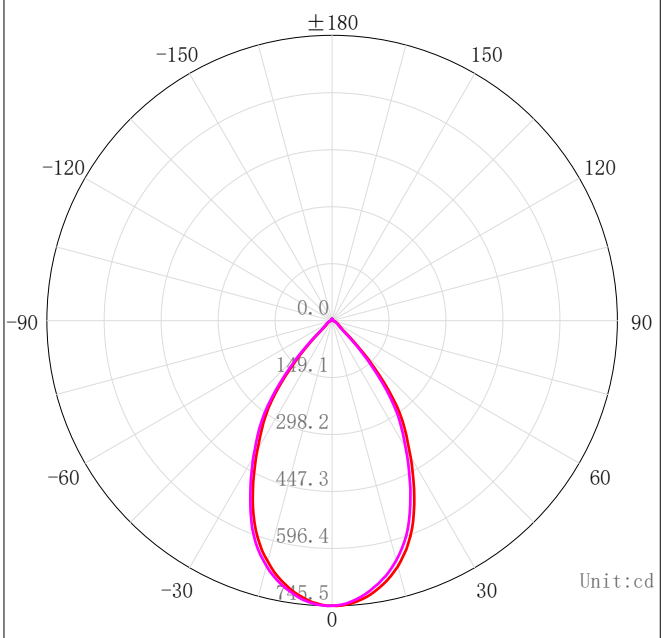
Description Information

Luminary Name: HCP-813024-3000K RA90 60D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2020/09/28
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

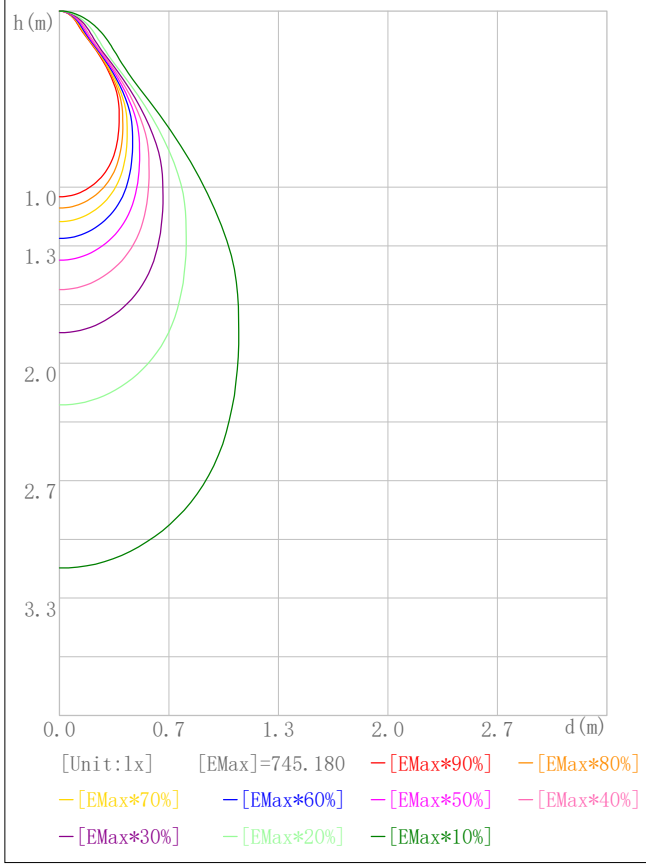
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 791.560	Luminary Flux(lm): 791.654	Field Angle(10%Imax): 91.4(°)
Rated Power(W):	Luminary Efficiency: 100.01%	Down Lumens&Percent: 782.1161m 98.80%
Rated Voltage(V):	Luminary EER(lm/W): 64.206	Up Lumens&Percent: 9.5381m 1.20%
Tested Power(W): 12.330	Max.Candela(cd): 745.521	S/MH: C0_a180=0.931 C90_270=0.925
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):240.5,0.054,0.944	Beam Angle(50%Imax): 62.9(°)	ErP Φuse(90°): 714.652lm
Lamp Size(W*L*H):0.050m*0.000m*0.080m	Left=-30.9° ,Right=32.0°	IRF(%): 205.551

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C0.0_180.0 :	62.9	91.4
C90.0_270.0 :	62.7	91.3

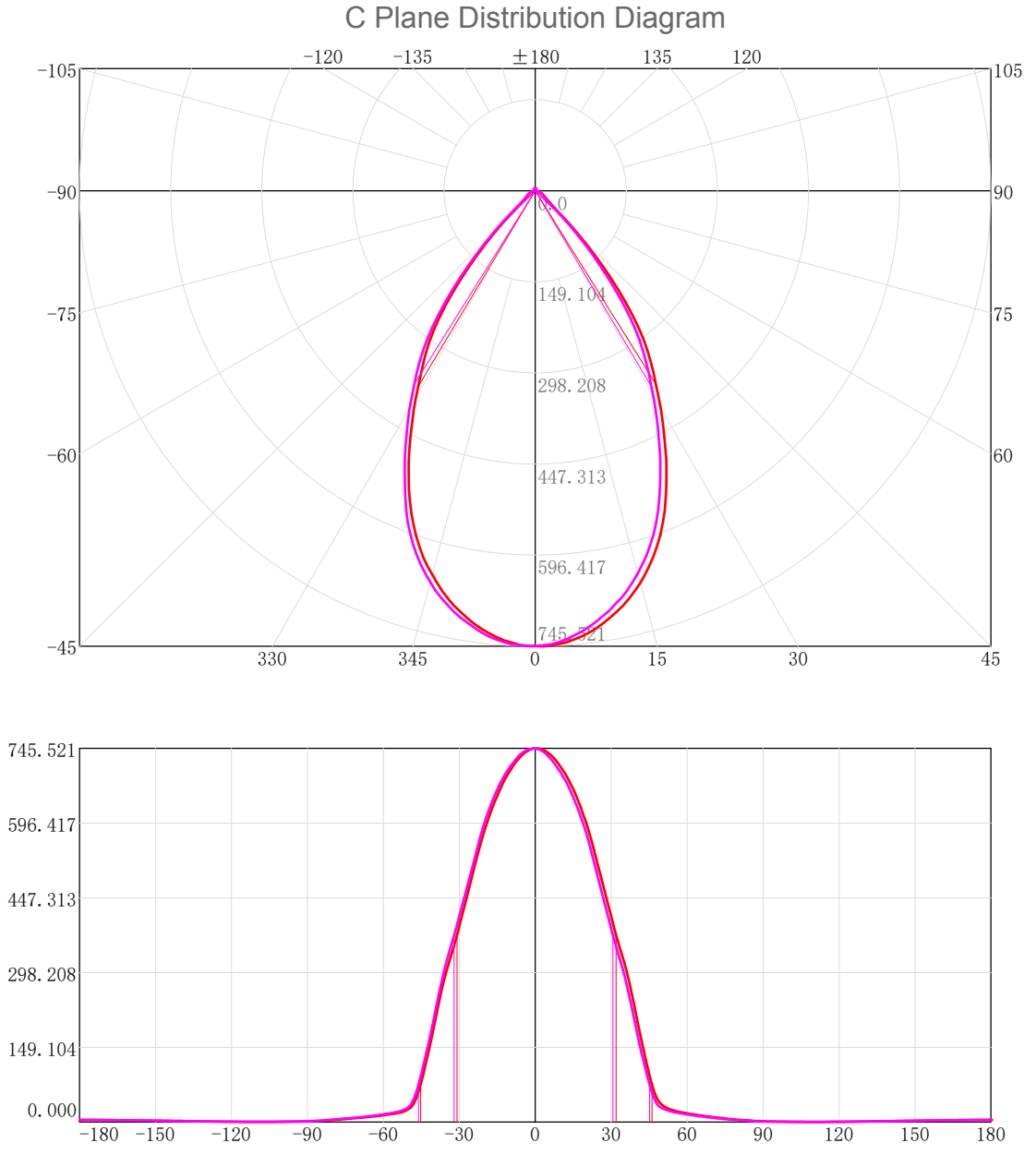
C0 Space ISO Illuminance Curve



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2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

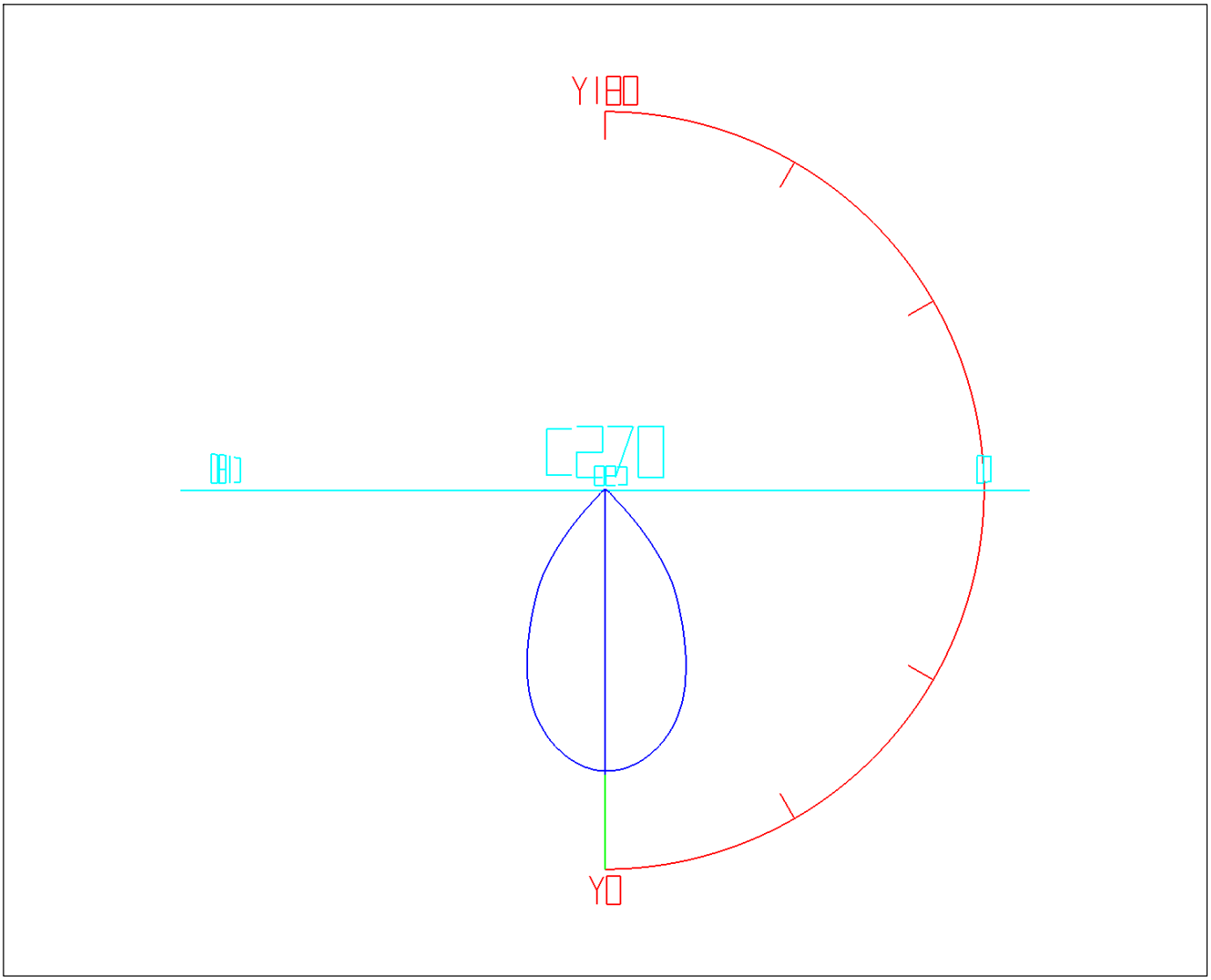


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3D Light Intensity Distribution Modal

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

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	0.71	0.71	0.09	0.09	47.0-48.0	3.86	735.40	0.49	92.90
1.0-2.0	2.14	2.85	0.27	0.36	48.0-49.0	3.12	738.52	0.39	93.30
2.0-3.0	3.55	6.40	0.45	0.81	49.0-50.0	2.67	741.18	0.34	93.64
3.0-4.0	4.95	11.35	0.63	1.43	50.0-51.0	2.39	743.58	0.30	93.94
4.0-5.0	6.34	17.69	0.80	2.23	51.0-52.0	2.20	745.77	0.28	94.22
5.0-6.0	7.69	25.38	0.97	3.21	52.0-53.0	2.04	747.82	0.26	94.47
6.0-7.0	9.02	34.41	1.14	4.35	53.0-54.0	1.93	749.75	0.24	94.72
7.0-8.0	10.32	44.73	1.30	5.65	54.0-55.0	1.84	751.59	0.23	94.95
8.0-9.0	11.58	56.31	1.46	7.11	55.0-56.0	1.76	753.35	0.22	95.17
9.0-10.0	12.80	69.12	1.62	8.73	56.0-57.0	1.69	755.04	0.21	95.39
10.0-11.0	13.99	83.10	1.77	10.50	57.0-58.0	1.63	756.67	0.21	95.59
11.0-12.0	15.12	98.22	1.91	12.41	58.0-59.0	1.57	758.24	0.20	95.79
12.0-13.0	16.20	114.43	2.05	14.46	59.0-60.0	1.52	759.76	0.19	95.98
13.0-14.0	17.22	131.65	2.18	16.63	60.0-61.0	1.45	761.21	0.18	96.17
14.0-15.0	18.18	149.83	2.30	18.93	61.0-62.0	1.39	762.61	0.18	96.34
15.0-16.0	19.07	168.90	2.41	21.34	62.0-63.0	1.34	763.94	0.17	96.51
16.0-17.0	19.89	188.79	2.51	23.85	63.0-64.0	1.28	765.23	0.16	96.67
17.0-18.0	20.64	209.43	2.61	26.46	64.0-65.0	1.23	766.46	0.16	96.83
18.0-19.0	21.29	230.72	2.69	29.15	65.0-66.0	1.18	767.64	0.15	96.98
19.0-20.0	21.85	252.58	2.76	31.91	66.0-67.0	1.12	768.76	0.14	97.12
20.0-21.0	22.31	274.88	2.82	34.73	67.0-68.0	1.07	769.83	0.14	97.25
21.0-22.0	22.65	297.53	2.86	37.59	68.0-69.0	1.02	770.85	0.13	97.38
22.0-23.0	22.88	320.41	2.89	40.48	69.0-70.0	0.98	771.83	0.12	97.51
23.0-24.0	23.00	343.40	2.91	43.38	70.0-71.0	0.94	772.77	0.12	97.63
24.0-25.0	23.03	366.43	2.91	46.29	71.0-72.0	0.89	773.65	0.11	97.74
25.0-26.0	22.99	389.42	2.90	49.20	72.0-73.0	0.84	774.49	0.11	97.84
26.0-27.0	22.85	412.27	2.89	52.08	73.0-74.0	0.79	775.27	0.10	97.94
27.0-28.0	22.64	434.92	2.86	54.94	74.0-75.0	0.74	776.02	0.09	98.04
28.0-29.0	22.39	457.31	2.83	57.77	75.0-76.0	0.70	776.71	0.09	98.12
29.0-30.0	22.08	479.39	2.79	60.56	76.0-77.0	0.65	777.36	0.08	98.21
30.0-31.0	21.68	501.07	2.74	63.30	77.0-78.0	0.60	777.96	0.08	98.28
31.0-32.0	21.25	522.32	2.68	65.99	78.0-79.0	0.55	778.51	0.07	98.35
32.0-33.0	20.83	543.16	2.63	68.62	79.0-80.0	0.51	779.02	0.06	98.42
33.0-34.0	20.37	563.52	2.57	71.19	80.0-81.0	0.47	779.49	0.06	98.48
34.0-35.0	19.81	583.33	2.50	73.69	81.0-82.0	0.43	779.92	0.05	98.53
35.0-36.0	19.13	602.46	2.42	76.11	82.0-83.0	0.38	780.30	0.05	98.58
36.0-37.0	18.29	620.75	2.31	78.42	83.0-84.0	0.35	780.65	0.04	98.62
37.0-38.0	17.24	637.99	2.18	80.60	84.0-85.0	0.32	780.97	0.04	98.66
38.0-39.0	16.02	654.01	2.02	82.62	85.0-86.0	0.29	781.26	0.04	98.70
39.0-40.0	14.69	668.70	1.86	84.48	86.0-87.0	0.26	781.52	0.03	98.73
40.0-41.0	13.28	681.98	1.68	86.16	87.0-88.0	0.23	781.74	0.03	98.76
41.0-42.0	11.83	693.81	1.50	87.65	88.0-89.0	0.20	781.94	0.03	98.79
42.0-43.0	10.38	704.19	1.31	88.96	89.0-90.0	0.17	782.12	0.02	98.81
43.0-44.0	8.91	713.10	1.13	90.09	90.0-91.0	0.16	782.28	0.02	98.83
44.0-45.0	7.47	720.57	0.94	91.03	91.0-92.0	0.15	782.42	0.02	98.85
45.0-46.0	6.10	726.67	0.77	91.80	92.0-93.0	0.14	782.57	0.02	98.86
46.0-47.0	4.87	731.54	0.62	92.42	93.0-94.0	0.13	782.70	0.02	98.88

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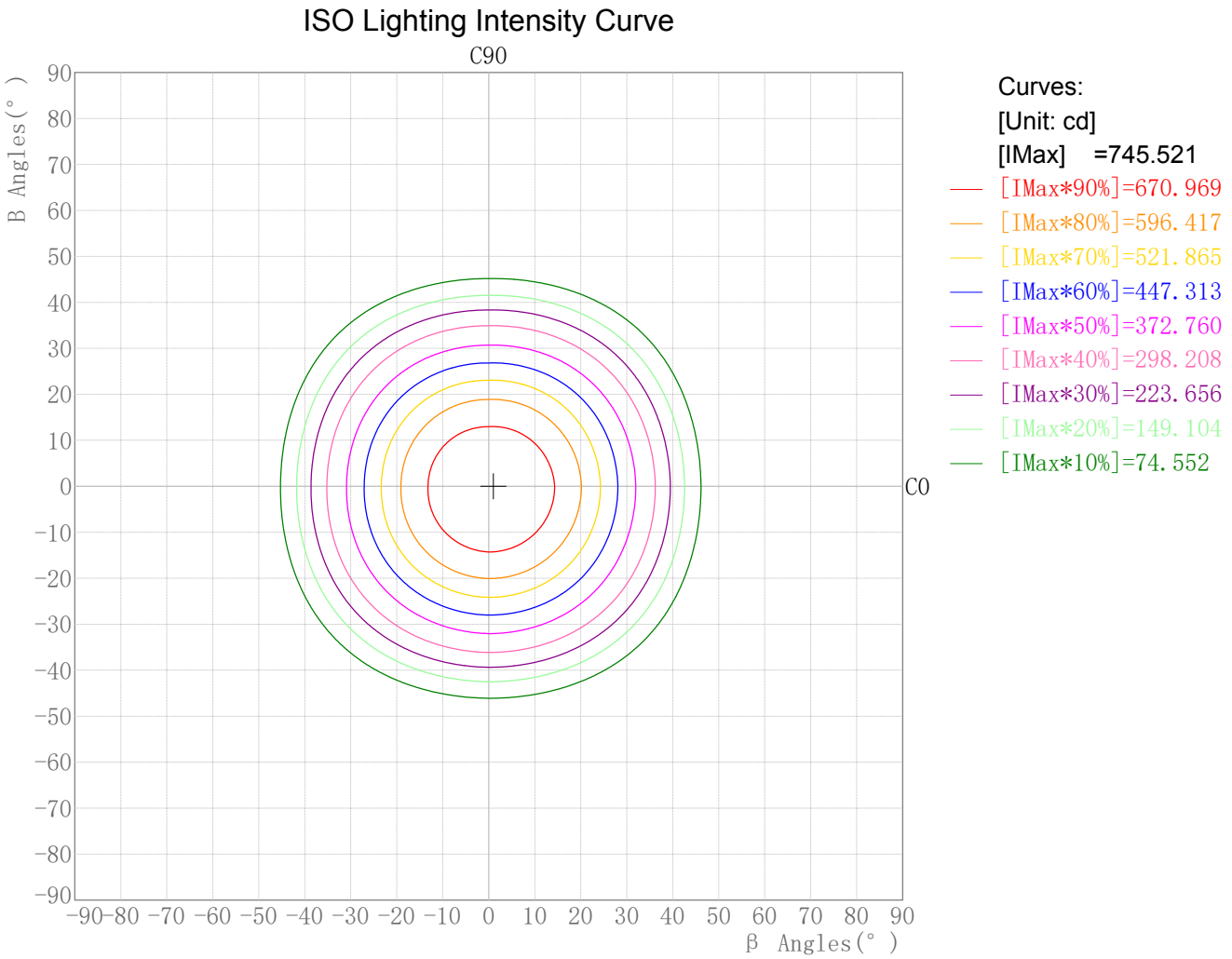
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.12	782.82	0.02	98.90
95.0-96.0	0.12	782.94	0.01	98.91
96.0-97.0	0.11	783.05	0.01	98.93
97.0-98.0	0.10	783.16	0.01	98.94
98.0-99.0	0.10	783.25	0.01	98.95
99.0-100.0	0.09	783.35	0.01	98.96
100.0-101.0	0.09	783.43	0.01	98.97
101.0-102.0	0.08	783.52	0.01	98.98
102.0-103.0	0.08	783.59	0.01	98.99
103.0-104.0	0.08	783.67	0.01	99.00
104.0-105.0	0.07	783.74	0.01	99.01
105.0-106.0	0.07	783.81	0.01	99.02
106.0-107.0	0.07	783.88	0.01	99.03
107.0-108.0	0.07	783.94	0.01	99.04
108.0-109.0	0.06	784.01	0.01	99.05
109.0-110.0	0.06	784.07	0.01	99.05
110.0-111.0	0.06	784.14	0.01	99.06
111.0-112.0	0.06	784.20	0.01	99.07
112.0-113.0	0.06	784.27	0.01	99.08
113.0-114.0	0.07	784.33	0.01	99.09
114.0-115.0	0.07	784.40	0.01	99.10
115.0-116.0	0.07	784.47	0.01	99.10
116.0-117.0	0.07	784.54	0.01	99.11
117.0-118.0	0.07	784.61	0.01	99.12
118.0-119.0	0.08	784.69	0.01	99.13
119.0-120.0	0.08	784.76	0.01	99.14
120.0-121.0	0.08	784.85	0.01	99.15
121.0-122.0	0.08	784.93	0.01	99.16
122.0-123.0	0.09	785.02	0.01	99.17
123.0-124.0	0.09	785.11	0.01	99.19
124.0-125.0	0.10	785.20	0.01	99.20
125.0-126.0	0.10	785.30	0.01	99.21
126.0-127.0	0.10	785.41	0.01	99.22
127.0-128.0	0.11	785.51	0.01	99.24
128.0-129.0	0.11	785.62	0.01	99.25
129.0-130.0	0.12	785.74	0.01	99.26
130.0-131.0	0.12	785.86	0.02	99.28
131.0-132.0	0.12	785.98	0.02	99.30
132.0-133.0	0.13	786.11	0.02	99.31
133.0-134.0	0.13	786.24	0.02	99.33
134.0-135.0	0.13	786.37	0.02	99.34
135.0-136.0	0.14	786.51	0.02	99.36
136.0-137.0	0.14	786.66	0.02	99.38
137.0-138.0	0.14	786.80	0.02	99.40
138.0-139.0	0.15	786.95	0.02	99.42
139.0-140.0	0.15	787.10	0.02	99.44
140.0-141.0	0.15	787.25	0.02	99.46
141.0-142.0	0.16	787.41	0.02	99.48
142.0-143.0	0.16	787.56	0.02	99.50
143.0-144.0	0.16	787.72	0.02	99.52
144.0-145.0	0.16	787.88	0.02	99.54
145.0-146.0	0.16	788.04	0.02	99.56
146.0-147.0	0.16	788.20	0.02	99.58
147.0-148.0	0.16	788.36	0.02	99.60
148.0-149.0	0.16	788.52	0.02	99.62
149.0-150.0	0.16	788.68	0.02	99.64
150.0-151.0	0.16	788.83	0.02	99.66
151.0-152.0	0.16	788.99	0.02	99.68
152.0-153.0	0.15	789.14	0.02	99.69
153.0-154.0	0.15	789.30	0.02	99.71
154.0-155.0	0.15	789.45	0.02	99.73
155.0-156.0	0.15	789.59	0.02	99.75
156.0-157.0	0.14	789.74	0.02	99.77
157.0-158.0	0.14	789.88	0.02	99.79
158.0-159.0	0.14	790.02	0.02	99.81
159.0-160.0	0.13	790.15	0.02	99.82
160.0-161.0	0.13	790.28	0.02	99.84
161.0-162.0	0.13	790.41	0.02	99.85
162.0-163.0	0.12	790.53	0.02	99.87
163.0-164.0	0.12	790.65	0.01	99.89
164.0-165.0	0.11	790.76	0.01	99.90
165.0-166.0	0.11	790.87	0.01	99.91
166.0-167.0	0.10	790.97	0.01	99.93
167.0-168.0	0.10	791.07	0.01	99.94
168.0-169.0	0.09	791.16	0.01	99.95
169.0-170.0	0.08	791.24	0.01	99.96
170.0-171.0	0.08	791.32	0.01	99.97
171.0-172.0	0.07	791.39	0.01	99.98
172.0-173.0	0.06	791.45	0.01	99.99
173.0-174.0	0.05	791.50	0.01	99.99
174.0-175.0	0.05	791.55	0.01	100.00
175.0-176.0	0.04	791.59	0.00	100.00
176.0-177.0	0.03	791.62	0.00	100.01
177.0-178.0	0.02	791.64	0.00	100.01
178.0-179.0	0.01	791.65	0.00	100.01
179.0-180.0	0.00	791.65	0.00	100.01

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Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28



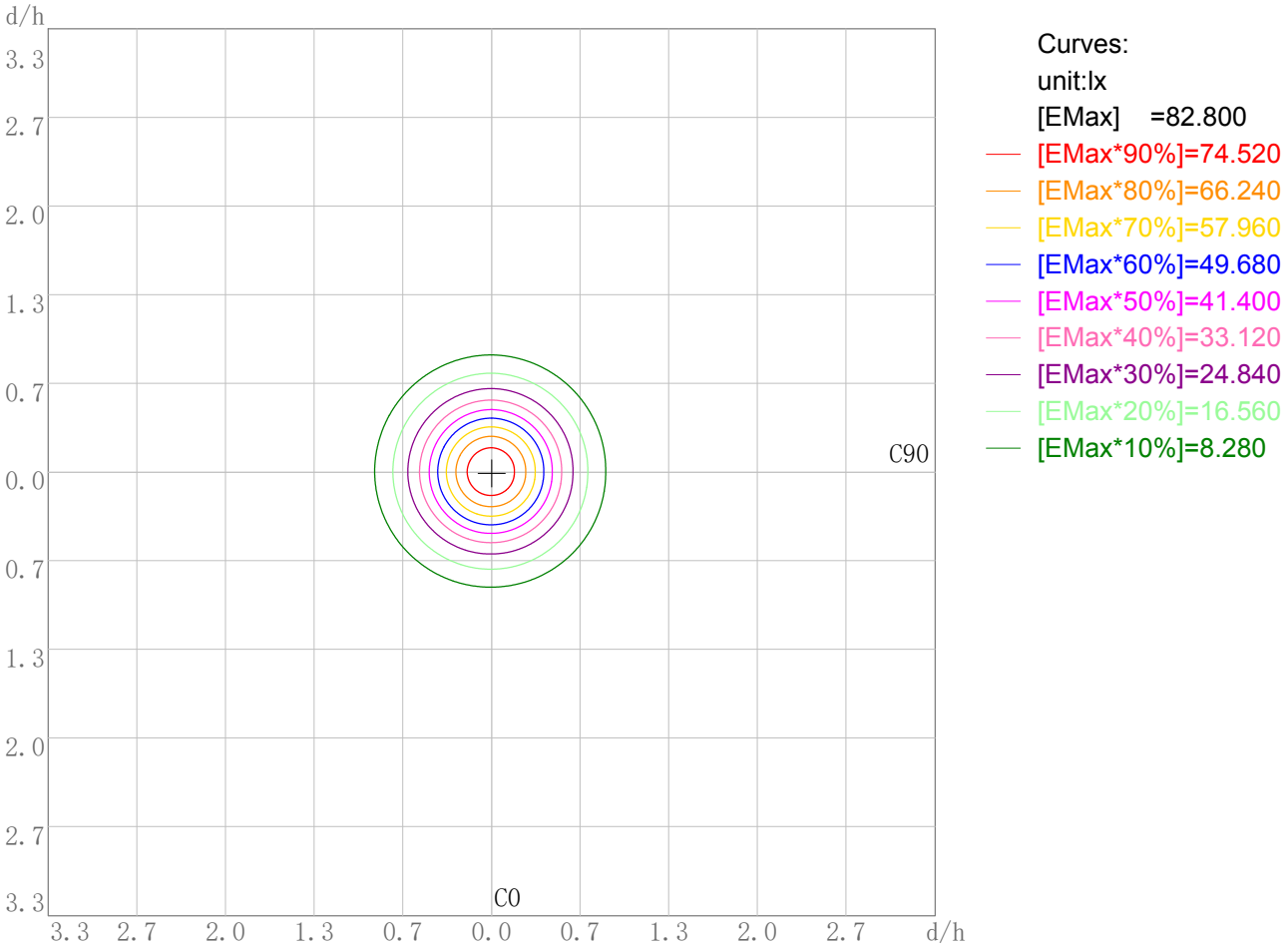
Maximum Light Intensity(cd): 745.52
Maximum Cand.@Angle: H=1.0°,V=0.0°

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Plane ISO-Illuminance Diagram

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

Plane ISO-Illuminance Curve



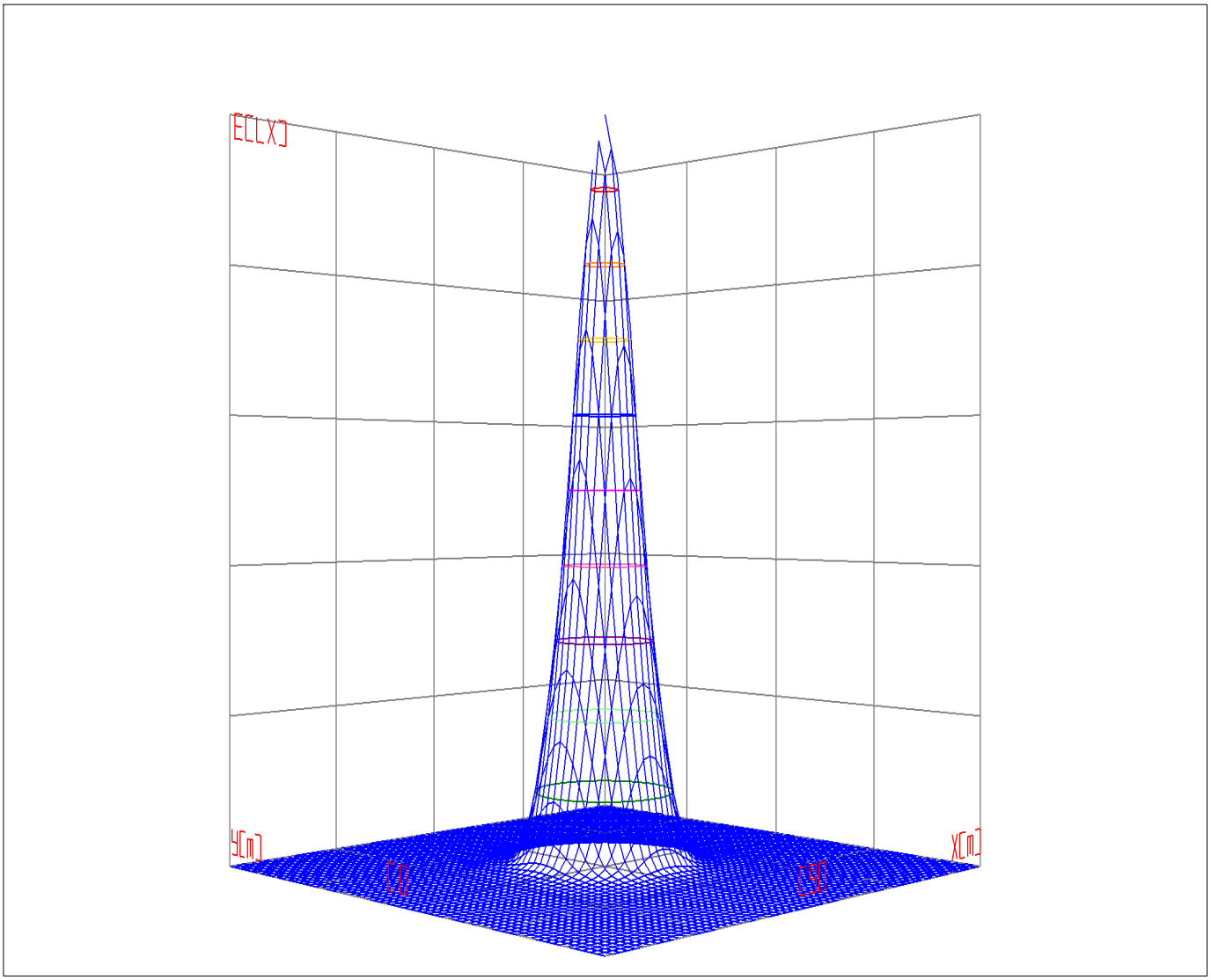
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 82.80
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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3D Plane ISO Illuminance Diagram

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

3D Plane Illuminance Modal



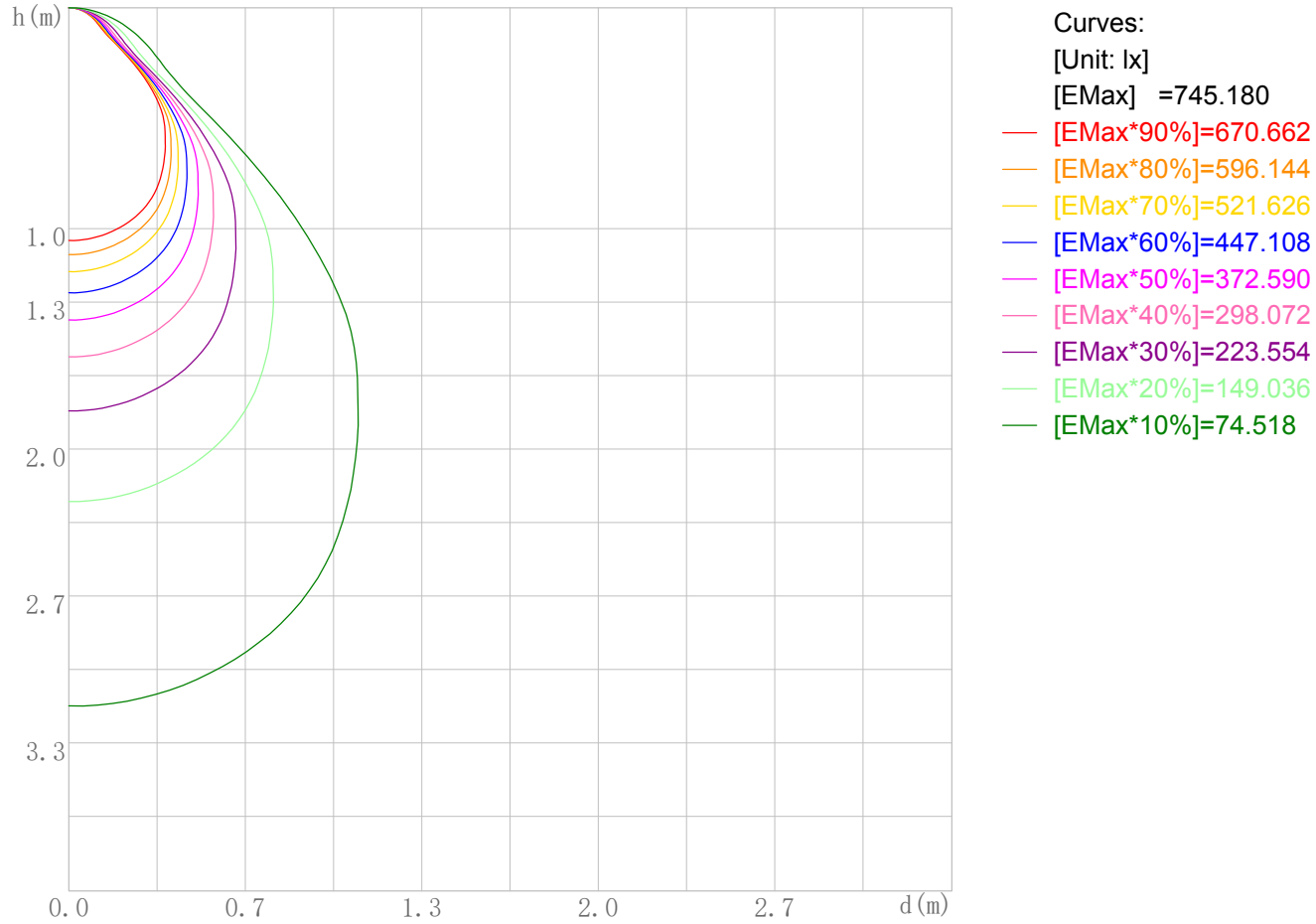
Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

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Space ISO Illuminance Diagram

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

Space ISO Illuminance Curve



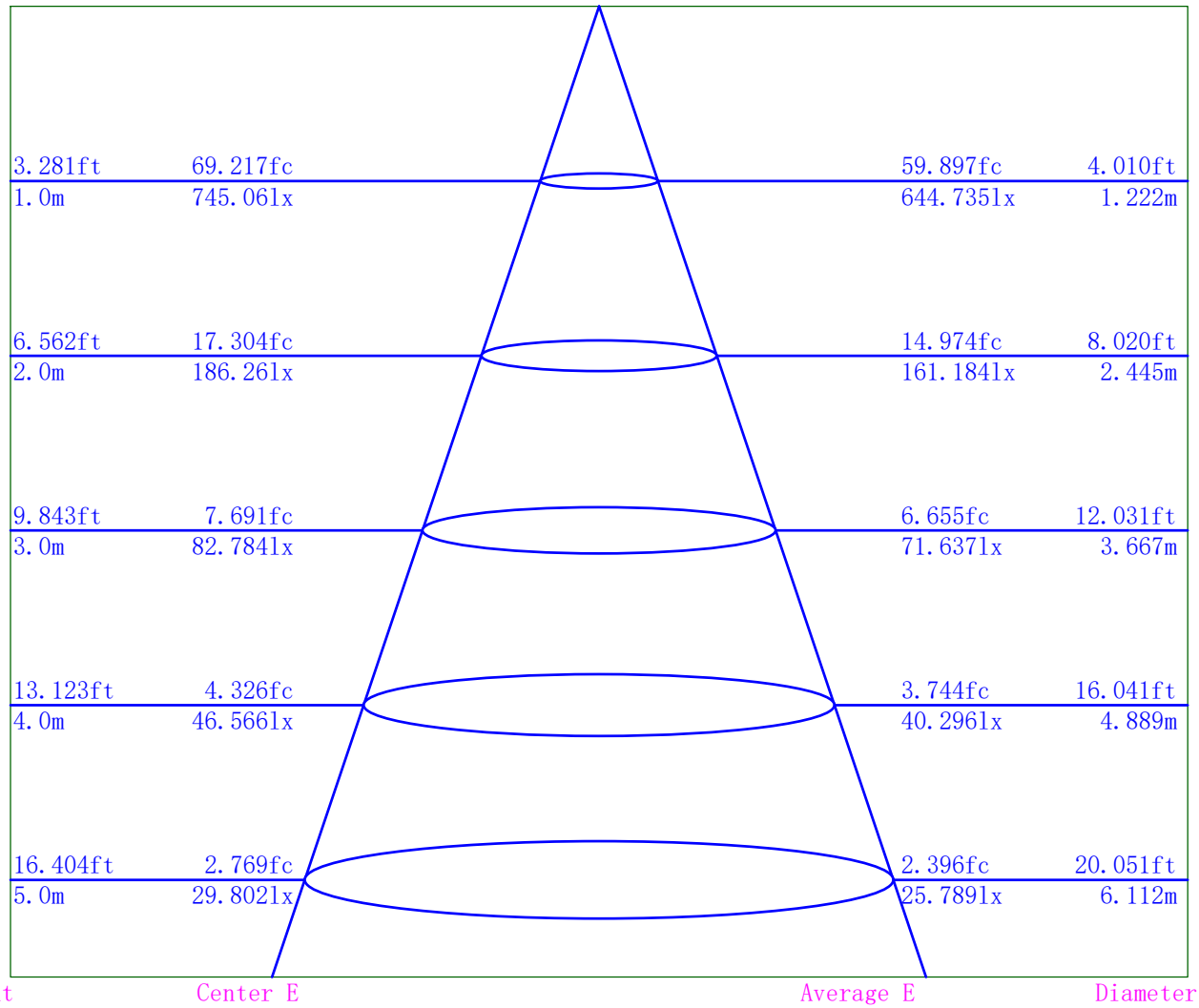
Space Plane Maximum Illuminance and @Angle:745.18lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:745.521cd,0eg

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Illuminance-Distance Diagram

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

Illuminance-Distance Curve



Beam Angle:62.9

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Indoor Luminance Limiting Curves

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

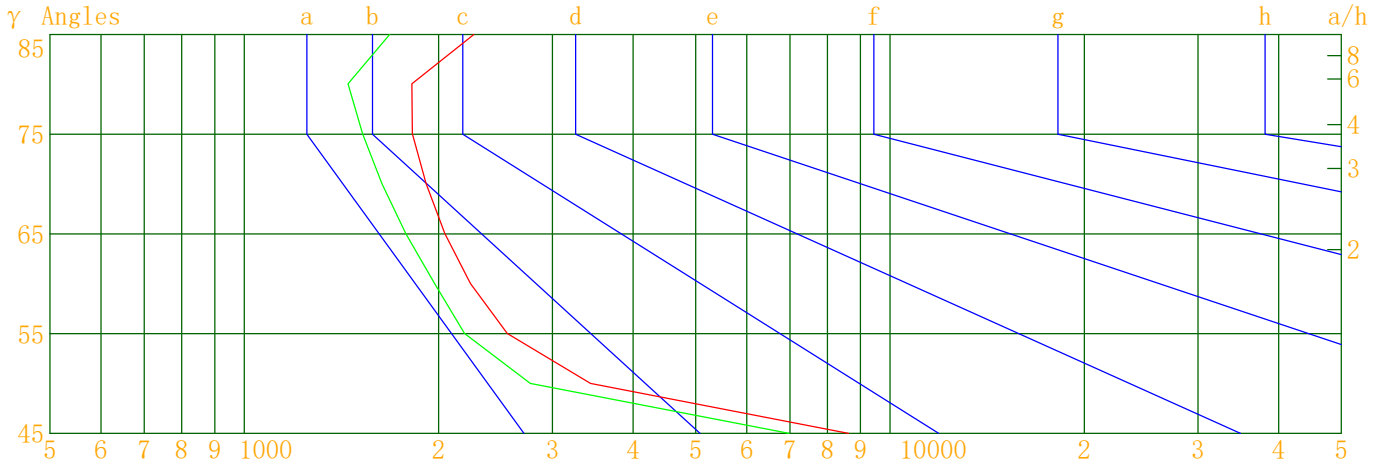
Glare Grade Table

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	8623	3438	2554	2241	2044	1913	1821	1818	2267
C90	6975	2773	2194	1971	1778	1634	1524	1447	1679

Luminance Limiting Curve

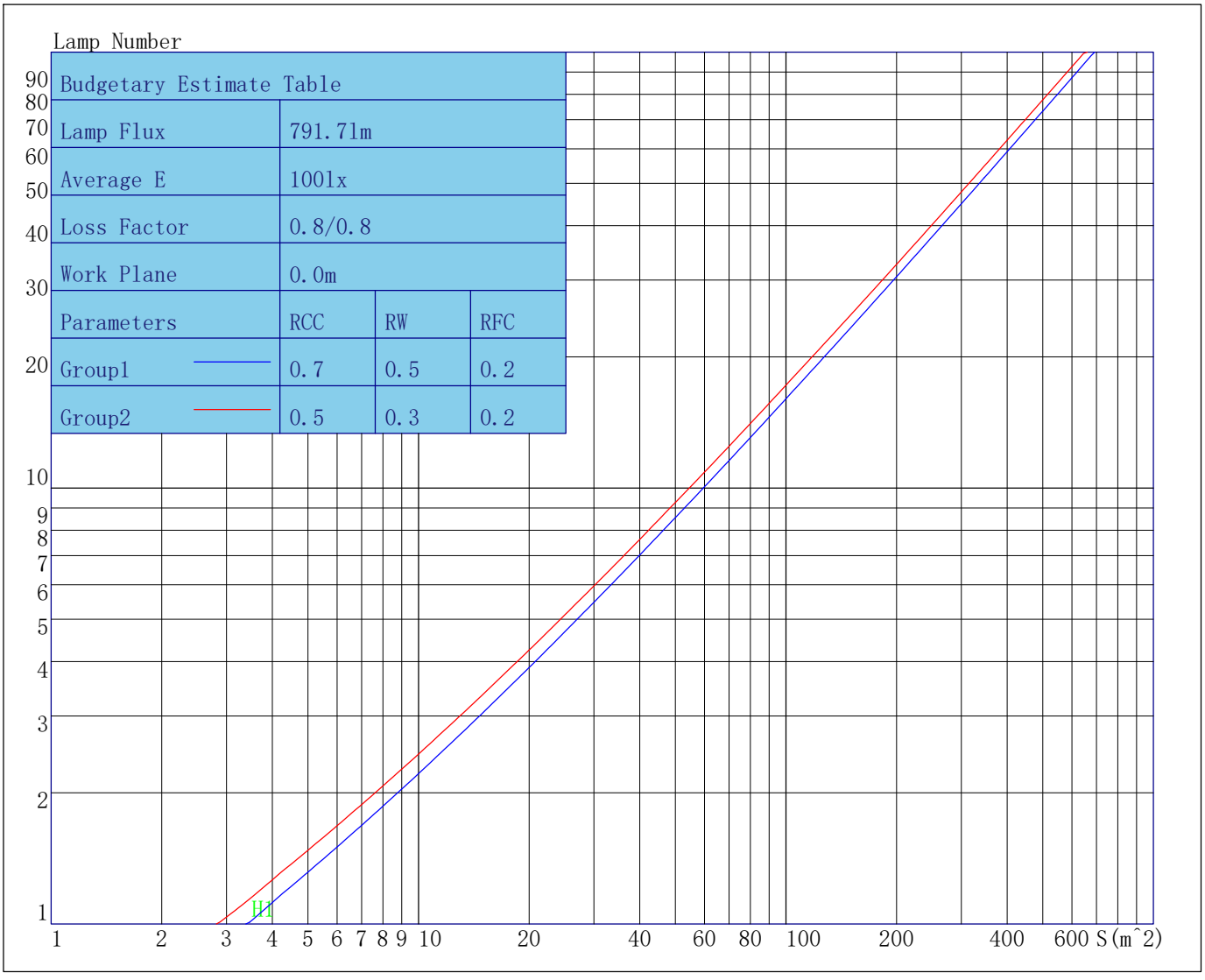


Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.080 Area(m^2)=0.015708
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

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Indoor Budgetary Estimate Table

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

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Indoor Coefficient of Utilization Table

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC(%)	80				70				50			30			10			0
RhoW(%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	112	109	107	104	110	107	105	102	103	101	99	99	97	96	95	94	93	91
2	106	101	96	93	104	99	95	91	95	92	89	92	90	87	89	87	85	83
3	100	93	88	83	98	92	87	82	89	85	81	86	83	80	84	81	78	76
4	95	86	80	76	93	85	79	75	83	78	74	80	76	73	78	75	72	70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	76	65	59	54	74	65	59	54	63	58	54	62	57	54	61	57	53	52
9	72	61	55	51	70	61	55	51	60	54	50	59	54	50	58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45

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Unified Glare Rating Table

Lum.Name: HCP-813024-3000K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/28

Unified Glare Rating Table

Ceiling RCC		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size		Vewed crosswise					Vewed endwise				
X=2H	Y=2H	16.4	17.5	16.8	17.8	18.2	15.8	16.9	16.2	17.2	17.5
	Y=3H	16.5	17.4	16.9	17.8	18.2	15.8	16.8	16.2	17.1	17.5
	Y=4H	16.5	17.4	16.9	17.7	18.2	15.8	16.7	16.3	17.1	17.5
	Y=6H	16.5	17.3	17.0	17.7	18.2	15.9	16.7	16.3	17.1	17.5
	Y=8H	16.5	17.3	17.0	17.7	18.2	15.8	16.6	16.3	17.0	17.5
	Y=12H	16.6	17.3	17.0	17.7	18.1	15.8	16.6	16.3	17.0	17.4
X=4H	Y=2H	16.2	17.1	16.7	17.5	17.9	15.6	16.5	16.1	16.9	17.3
	Y=3H	16.4	17.1	16.8	17.5	18.0	15.7	16.5	16.2	16.9	17.3
	Y=4H	16.5	17.1	16.9	17.6	18.0	15.8	16.5	16.3	16.9	17.4
	Y=6H	16.6	17.1	17.1	17.6	18.1	15.9	16.4	16.4	16.9	17.4
	Y=8H	16.6	17.1	17.1	17.6	18.1	15.9	16.4	16.4	16.9	17.4
	Y=12H	16.7	17.1	17.2	17.6	18.1	15.9	16.4	16.4	16.9	17.4
X=8H	Y=4H	16.4	16.9	16.9	17.4	17.9	15.7	16.3	16.2	16.7	17.2
	Y=6H	16.6	17.0	17.1	17.5	18.1	15.9	16.3	16.4	16.8	17.4
	Y=8H	16.7	17.0	17.2	17.6	18.1	15.9	16.3	16.5	16.9	17.4
	Y=12H	16.8	17.1	17.4	17.7	18.3	16.0	16.4	16.6	16.9	17.5
X=12H	Y=4H	16.4	16.8	16.9	17.3	17.8	15.7	16.2	16.2	16.7	17.2
	Y=6H	16.6	16.9	17.1	17.4	18.0	15.9	16.2	16.4	16.7	17.3
	Y=8H	16.7	17.0	17.2	17.5	18.1	16.0	16.3	16.5	16.8	17.4
Variations with the observer position at spacings											
S=1.0H		0.3/-0.3					0.4/-0.4				
S=1.5H		0.6/-0.7					0.7/-0.8				
S=2.0H		0.8/-0.9					0.9/-1.0				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		0.8					0.7				

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	745.06	745.06	745.06	745.06
γ 1.0	745.52	743.97	744.85	745.34
γ 2.0	744.44	742.52	743.46	744.02
γ 3.0	742.76	739.45	740.23	743.09
γ 4.0	740.55	735.59	737.37	740.29
γ 5.0	736.74	730.34	732.72	736.96
γ 6.0	732.79	725.51	727.75	732.85
γ 7.0	728.22	719.16	722.05	727.65
γ 8.0	722.57	712.63	715.76	721.35
γ 9.0	716.00	704.77	708.31	714.80
γ 10.0	708.64	697.83	700.37	708.58
γ 11.0	701.29	688.61	692.36	701.15
γ 12.0	693.38	680.66	683.26	692.58
γ 13.0	684.34	670.67	673.32	683.64
γ 14.0	674.27	659.55	662.18	674.24
γ 15.0	664.48	648.07	650.41	662.94
γ 16.0	652.83	635.70	639.12	651.59
γ 17.0	640.54	623.36	626.88	640.00
γ 18.0	627.85	609.11	612.52	626.96
γ 19.0	613.43	594.66	597.89	612.96
γ 20.0	598.89	578.50	582.07	597.56
γ 21.0	582.31	560.91	565.27	581.39
γ 22.0	565.54	542.06	547.19	563.60
γ 23.0	546.65	523.04	528.97	543.90
γ 24.0	527.64	503.20	509.15	524.65
γ 25.0	507.93	483.89	489.60	505.38
γ 26.0	489.18	463.40	469.45	486.42
γ 27.0	468.39	443.65	448.82	467.07
γ 28.0	448.73	424.67	428.78	447.52
γ 29.0	429.56	405.21	410.01	429.39
γ 30.0	410.49	385.39	390.26	410.87
γ 31.0	390.49	366.73	370.98	390.88
γ 32.0	371.93	349.79	352.86	373.48
γ 33.0	355.50	332.16	336.12	356.66
γ 34.0	338.38	314.88	319.52	338.85
γ 35.0	320.84	296.75	301.78	320.23
γ 36.0	302.65	276.46	283.52	301.28
γ 37.0	282.19	254.79	262.51	279.58
γ 38.0	259.21	231.72	239.09	256.61
γ 39.0	235.65	207.56	215.13	232.77
γ 40.0	211.00	183.91	190.78	207.85
γ 41.0	186.54	160.42	166.83	183.93
γ 42.0	162.95	138.25	143.51	160.48
γ 43.0	139.48	116.89	121.00	138.07
γ 44.0	116.85	96.41	99.26	116.34
γ 45.0	95.78	77.47	79.25	95.72
γ 46.0	76.91	60.62	61.82	76.34

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	60.61	46.83	47.36	59.58
γ 48.0	47.95	36.82	36.68	45.88
γ 49.0	39.75	31.10	30.07	35.88
γ 50.0	34.71	28.00	26.14	30.09
γ 51.0	31.24	25.82	23.30	26.91
γ 52.0	28.17	23.87	21.06	24.43
γ 53.0	25.88	22.50	19.51	22.53
γ 54.0	24.33	21.03	18.47	21.22
γ 55.0	23.01	19.76	17.38	19.94
γ 56.0	21.48	18.79	16.55	18.85
γ 57.0	20.30	17.95	15.85	17.94
γ 58.0	19.39	17.14	15.19	17.17
γ 59.0	18.49	16.33	14.49	16.43
γ 60.0	17.60	15.48	13.81	15.73
γ 61.0	16.61	14.60	13.06	14.96
γ 62.0	15.80	13.85	12.44	14.19
γ 63.0	15.04	13.17	11.88	13.51
γ 64.0	14.34	12.49	11.37	12.93
γ 65.0	13.57	11.81	10.82	12.34
γ 66.0	12.86	11.09	10.27	11.77
γ 67.0	12.08	10.39	9.72	11.11
γ 68.0	11.42	9.84	9.26	10.57
γ 69.0	10.84	9.29	8.85	10.10
γ 70.0	10.28	8.78	8.47	9.66
γ 71.0	9.66	8.25	8.04	9.24
γ 72.0	9.07	7.61	7.57	8.80
γ 73.0	8.43	7.09	7.08	8.24
γ 74.0	7.87	6.63	6.64	7.78
γ 75.0	7.40	6.20	6.25	7.36
γ 76.0	6.87	5.70	5.80	6.95
γ 77.0	6.33	5.16	5.34	6.47
γ 78.0	5.80	4.71	4.88	5.97
γ 79.0	5.38	4.33	4.54	5.56
γ 80.0	4.96	3.95	4.13	5.16
γ 81.0	4.52	3.52	3.75	4.79
γ 82.0	4.06	3.13	3.33	4.30
γ 83.0	3.72	2.85	2.98	3.88
γ 84.0	3.41	2.61	2.70	3.55
γ 85.0	3.10	2.30	2.44	3.26
γ 86.0	2.75	1.99	2.20	2.99
γ 87.0	2.47	1.73	1.94	2.70
γ 88.0	2.23	1.47	1.68	2.43
γ 89.0	1.92	1.23	1.42	2.11
γ 90.0	1.74	1.10	1.27	1.89
γ 91.0	1.63	1.02	1.18	1.78
γ 92.0	1.54	0.95	1.12	1.69
γ 93.0	1.46	0.89	1.05	1.60

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	1.37	0.83	0.99	1.52
γ 95.0	1.30	0.76	0.93	1.44
γ 96.0	1.23	0.71	0.87	1.37
γ 97.0	1.16	0.65	0.82	1.30
γ 98.0	1.10	0.60	0.77	1.23
γ 99.0	1.04	0.57	0.74	1.17
γ 100.0	0.99	0.53	0.70	1.12
γ 101.0	0.94	0.49	0.66	1.07
γ 102.0	0.88	0.46	0.64	1.02
γ 103.0	0.85	0.43	0.61	0.99
γ 104.0	0.81	0.41	0.58	0.95
γ 105.0	0.77	0.40	0.57	0.92
γ 106.0	0.76	0.38	0.56	0.90
γ 107.0	0.74	0.37	0.56	0.86
γ 108.0	0.72	0.38	0.55	0.86
γ 109.0	0.70	0.37	0.55	0.85
γ 110.0	0.69	0.38	0.56	0.84
γ 111.0	0.69	0.39	0.58	0.84
γ 112.0	0.69	0.39	0.59	0.84
γ 113.0	0.70	0.41	0.61	0.85
γ 114.0	0.71	0.44	0.63	0.86
γ 115.0	0.73	0.46	0.66	0.88
γ 116.0	0.73	0.49	0.70	0.90
γ 117.0	0.76	0.52	0.73	0.91
γ 118.0	0.79	0.56	0.77	0.95
γ 119.0	0.81	0.60	0.81	0.98
γ 120.0	0.85	0.64	0.86	1.01
γ 121.0	0.89	0.69	0.91	1.04
γ 122.0	0.93	0.74	0.95	1.08
γ 123.0	0.97	0.80	1.01	1.12
γ 124.0	1.02	0.85	1.06	1.18
γ 125.0	1.08	0.91	1.12	1.23
γ 126.0	1.12	0.97	1.18	1.28
γ 127.0	1.18	1.04	1.25	1.33
γ 128.0	1.23	1.10	1.32	1.39
γ 129.0	1.30	1.16	1.39	1.45
γ 130.0	1.36	1.24	1.46	1.52
γ 131.0	1.43	1.30	1.54	1.58
γ 132.0	1.50	1.39	1.61	1.64
γ 133.0	1.57	1.46	1.69	1.70
γ 134.0	1.65	1.54	1.77	1.78
γ 135.0	1.72	1.62	1.85	1.85
γ 136.0	1.80	1.70	1.93	1.94
γ 137.0	1.88	1.79	2.01	1.99
γ 138.0	1.94	1.86	2.09	2.08
γ 139.0	2.03	1.95	2.18	2.16
γ 140.0	2.10	2.02	2.26	2.23

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	2.18	2.10	2.34	2.30
γ 142.0	2.25	2.19	2.42	2.38
γ 143.0	2.33	2.25	2.50	2.45
γ 144.0	2.40	2.33	2.58	2.54
γ 145.0	2.47	2.41	2.65	2.59
γ 146.0	2.54	2.48	2.71	2.66
γ 147.0	2.62	2.55	2.78	2.73
γ 148.0	2.69	2.62	2.86	2.81
γ 149.0	2.76	2.70	2.92	2.86
γ 150.0	2.83	2.77	2.99	2.93
γ 151.0	2.89	2.83	3.05	2.99
γ 152.0	2.97	2.90	3.13	3.06
γ 153.0	3.03	2.98	3.19	3.12
γ 154.0	3.11	3.04	3.26	3.18
γ 155.0	3.17	3.11	3.32	3.24
γ 156.0	3.25	3.18	3.39	3.31
γ 157.0	3.32	3.24	3.45	3.37
γ 158.0	3.39	3.31	3.52	3.44
γ 159.0	3.46	3.39	3.58	3.49
γ 160.0	3.52	3.45	3.66	3.55
γ 161.0	3.59	3.52	3.71	3.63
γ 162.0	3.67	3.59	3.79	3.69
γ 163.0	3.73	3.66	3.84	3.74
γ 164.0	3.80	3.73	3.91	3.80
γ 165.0	3.86	3.80	3.97	3.87
γ 166.0	3.92	3.86	4.02	3.93
γ 167.0	3.99	3.93	4.09	3.98
γ 168.0	4.06	3.99	4.14	4.05
γ 169.0	4.12	4.05	4.20	4.10
γ 170.0	4.17	4.11	4.25	4.16
γ 171.0	4.24	4.16	4.31	4.21
γ 172.0	4.30	4.21	4.36	4.26
γ 173.0	4.34	4.27	4.39	4.30
γ 174.0	4.39	4.31	4.43	4.35
γ 175.0	4.43	4.36	4.47	4.39
γ 176.0	4.47	4.40	4.49	4.41
γ 177.0	4.50	4.41	4.52	4.45
γ 178.0	4.52	4.43	4.53	4.47
γ 179.0	4.53	4.45	4.55	4.49
γ 180.0	4.53	4.53	4.53	4.53