HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel: 02 9381 8383
E-mail:sales@havitcommercial.com.au

Indoor Luminaire Photometric Data

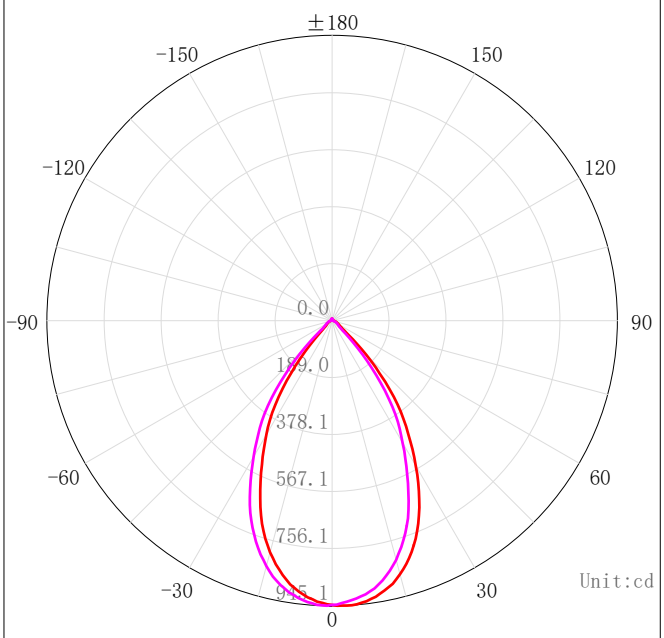
Description Information

Luminary Name: HCP-817024-3000K RA90 60D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2020/10/13
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

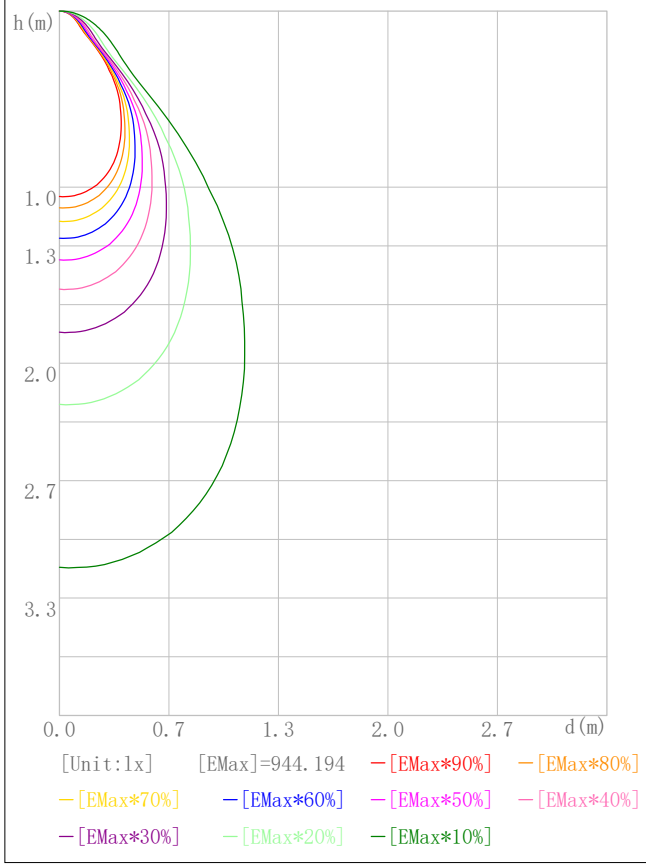
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 989.760	Luminary Flux(lm): 989.760	Field Angle(10%Imax): 90.6(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 974.144lm 98.42%
Rated Voltage(V):	Luminary EER(lm/W): 61.399	Up Lumens&Percent: 15.616lm 1.58%
Tested Power(W): 16.120	Max.Candela(cd): 945.137	S/MH: C0_a180=0.920 C90_270=0.919
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=3.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):239.9,0.069,0.968	Beam Angle(50%Imax): 61.4(°)	ErP Φuse(90°): 867.298lm
Lamp Size(W*L*H):0.050m*0.000m*0.080m	Left=-28.3° ,Right=33.1°	IRF(%): 200.554

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C0.0_180.0 :	61.4	90.6
C90.0_270.0 :	61.7	90.8

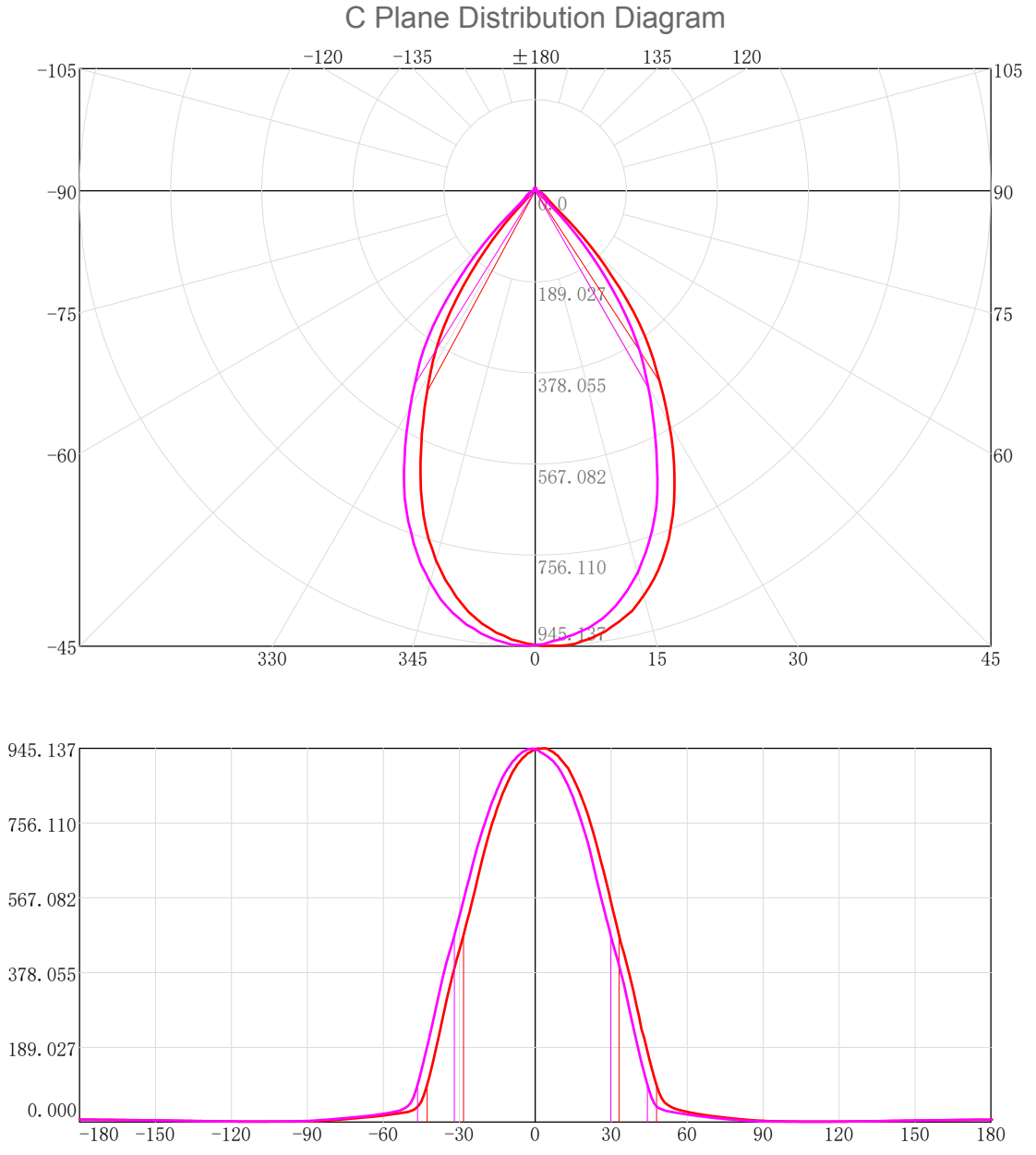
C0 Space ISO Illuminance Curve



HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-817024-3000K 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: 2020/10/13



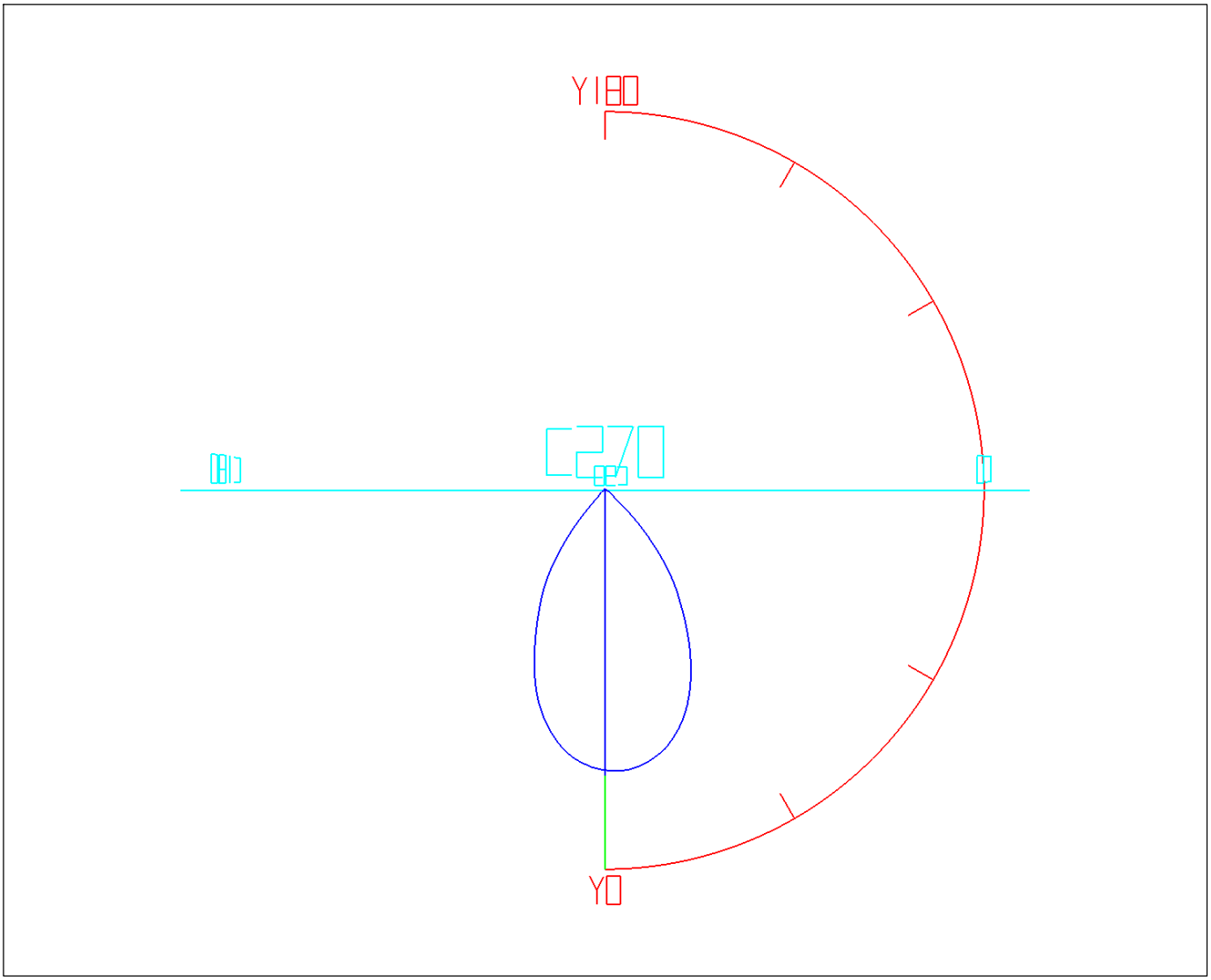
C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C0.0_180.0 :	61.4	90.6	
C90.0_270.0 :	61.7	90.8	

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

3D Light Intensity Distribution Modal

Lum.Name: HCP-817024-3000K 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: 2020/10/13

3D Light Intensity Distribution Modal



Curves: 3D Model Fixture Vert. HUD Hori. HUD
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

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	0.90	0.90	0.09	0.09	47.0-48.0	5.13	910.41	0.52	91.98
1.0-2.0	2.70	3.60	0.27	0.36	48.0-49.0	4.27	914.69	0.43	92.41
2.0-3.0	4.49	8.09	0.45	0.82	49.0-50.0	3.64	918.32	0.37	92.78
3.0-4.0	6.27	14.36	0.63	1.45	50.0-51.0	3.21	921.53	0.32	93.11
4.0-5.0	8.02	22.39	0.81	2.26	51.0-52.0	2.94	924.47	0.30	93.40
5.0-6.0	9.75	32.14	0.99	3.25	52.0-53.0	2.75	927.21	0.28	93.68
6.0-7.0	11.45	43.59	1.16	4.40	53.0-54.0	2.60	929.81	0.26	93.94
7.0-8.0	13.11	56.70	1.32	5.73	54.0-55.0	2.47	932.28	0.25	94.19
8.0-9.0	14.72	71.42	1.49	7.22	55.0-56.0	2.37	934.65	0.24	94.43
9.0-10.0	16.28	87.71	1.65	8.86	56.0-57.0	2.28	936.93	0.23	94.66
10.0-11.0	17.78	105.48	1.80	10.66	57.0-58.0	2.19	939.12	0.22	94.88
11.0-12.0	19.21	124.69	1.94	12.60	58.0-59.0	2.11	941.22	0.21	95.10
12.0-13.0	20.57	145.26	2.08	14.68	59.0-60.0	2.03	943.25	0.20	95.30
13.0-14.0	21.85	167.11	2.21	16.88	60.0-61.0	1.95	945.19	0.20	95.50
14.0-15.0	23.03	190.13	2.33	19.21	61.0-62.0	1.87	947.07	0.19	95.69
15.0-16.0	24.11	214.24	2.44	21.65	62.0-63.0	1.80	948.86	0.18	95.87
16.0-17.0	25.11	239.35	2.54	24.18	63.0-64.0	1.73	950.59	0.17	96.04
17.0-18.0	26.01	265.36	2.63	26.81	64.0-65.0	1.65	952.25	0.17	96.21
18.0-19.0	26.78	292.14	2.71	29.52	65.0-66.0	1.59	953.83	0.16	96.37
19.0-20.0	27.43	319.58	2.77	32.29	66.0-67.0	1.52	955.35	0.15	96.52
20.0-21.0	27.97	347.55	2.83	35.11	67.0-68.0	1.45	956.81	0.15	96.67
21.0-22.0	28.37	375.92	2.87	37.98	68.0-69.0	1.39	958.20	0.14	96.81
22.0-23.0	28.63	404.55	2.89	40.87	69.0-70.0	1.33	959.52	0.13	96.94
23.0-24.0	28.75	433.30	2.90	43.78	70.0-71.0	1.27	960.79	0.13	97.07
24.0-25.0	28.74	462.04	2.90	46.68	71.0-72.0	1.21	961.99	0.12	97.19
25.0-26.0	28.64	490.68	2.89	49.58	72.0-73.0	1.15	963.14	0.12	97.31
26.0-27.0	28.44	519.12	2.87	52.45	73.0-74.0	1.08	964.22	0.11	97.42
27.0-28.0	28.16	547.29	2.85	55.29	74.0-75.0	1.02	965.24	0.10	97.52
28.0-29.0	27.80	575.08	2.81	58.10	75.0-76.0	0.96	966.20	0.10	97.62
29.0-30.0	27.34	602.42	2.76	60.87	76.0-77.0	0.90	967.11	0.09	97.71
30.0-31.0	26.81	629.23	2.71	63.57	77.0-78.0	0.84	967.95	0.09	97.80
31.0-32.0	26.23	655.46	2.65	66.22	78.0-79.0	0.79	968.74	0.08	97.88
32.0-33.0	25.56	681.02	2.58	68.81	79.0-80.0	0.73	969.46	0.07	97.95
33.0-34.0	24.79	705.80	2.50	71.31	80.0-81.0	0.67	970.13	0.07	98.02
34.0-35.0	23.90	729.70	2.41	73.72	81.0-82.0	0.62	970.75	0.06	98.08
35.0-36.0	22.85	752.55	2.31	76.03	82.0-83.0	0.57	971.32	0.06	98.14
36.0-37.0	21.62	774.17	2.18	78.22	83.0-84.0	0.52	971.84	0.05	98.19
37.0-38.0	20.27	794.44	2.05	80.27	84.0-85.0	0.48	972.32	0.05	98.24
38.0-39.0	18.80	813.24	1.90	82.16	85.0-86.0	0.44	972.75	0.04	98.28
39.0-40.0	17.22	830.45	1.74	83.90	86.0-87.0	0.40	973.15	0.04	98.32
40.0-41.0	15.57	846.02	1.57	85.48	87.0-88.0	0.36	973.51	0.04	98.36
41.0-42.0	13.85	859.87	1.40	86.88	88.0-89.0	0.33	973.84	0.03	98.39
42.0-43.0	12.16	872.03	1.23	88.11	89.0-90.0	0.30	974.14	0.03	98.42
43.0-44.0	10.56	882.59	1.07	89.17	90.0-91.0	0.28	974.42	0.03	98.45
44.0-45.0	8.97	891.56	0.91	90.08	91.0-92.0	0.26	974.68	0.03	98.48
45.0-46.0	7.51	899.07	0.76	90.84	92.0-93.0	0.24	974.92	0.02	98.50
46.0-47.0	6.21	905.28	0.63	91.46	93.0-94.0	0.23	975.15	0.02	98.52

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

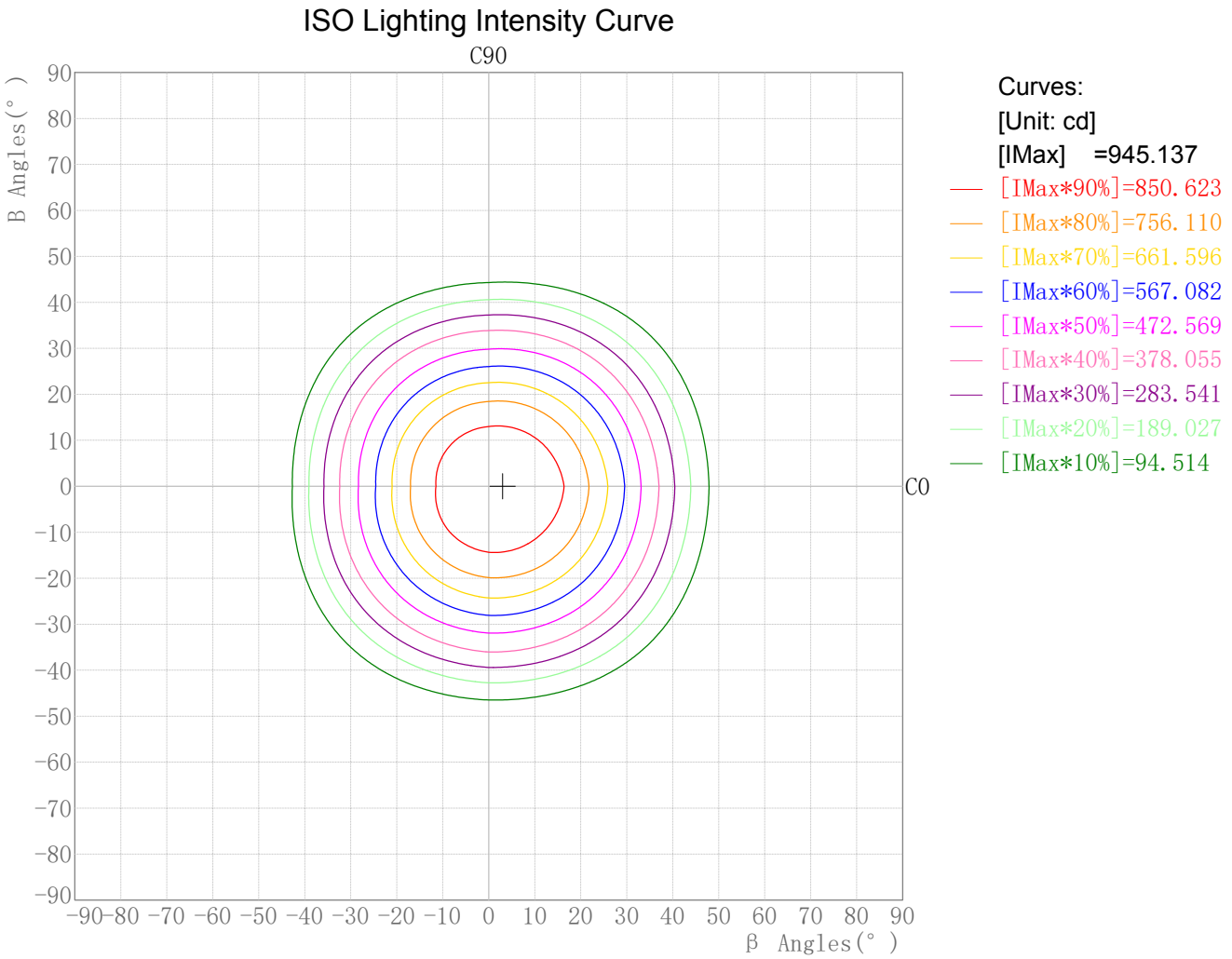
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.22	975.37	0.02	98.55
95.0-96.0	0.21	975.58	0.02	98.57
96.0-97.0	0.20	975.79	0.02	98.59
97.0-98.0	0.20	975.98	0.02	98.61
98.0-99.0	0.19	976.17	0.02	98.63
99.0-100.0	0.18	976.35	0.02	98.65
100.0-101.0	0.17	976.53	0.02	98.66
101.0-102.0	0.17	976.69	0.02	98.68
102.0-103.0	0.16	976.86	0.02	98.70
103.0-104.0	0.16	977.01	0.02	98.71
104.0-105.0	0.15	977.17	0.02	98.73
105.0-106.0	0.15	977.32	0.02	98.74
106.0-107.0	0.15	977.47	0.01	98.76
107.0-108.0	0.15	977.61	0.01	98.77
108.0-109.0	0.14	977.75	0.01	98.79
109.0-110.0	0.14	977.90	0.01	98.80
110.0-111.0	0.14	978.04	0.01	98.82
111.0-112.0	0.14	978.18	0.01	98.83
112.0-113.0	0.14	978.32	0.01	98.84
113.0-114.0	0.14	978.46	0.01	98.86
114.0-115.0	0.14	978.60	0.01	98.87
115.0-116.0	0.14	978.75	0.01	98.89
116.0-117.0	0.15	978.89	0.01	98.90
117.0-118.0	0.15	979.04	0.01	98.92
118.0-119.0	0.15	979.19	0.02	98.93
119.0-120.0	0.15	979.35	0.02	98.95
120.0-121.0	0.16	979.50	0.02	98.96
121.0-122.0	0.16	979.66	0.02	98.98
122.0-123.0	0.16	979.83	0.02	99.00
123.0-124.0	0.17	980.00	0.02	99.01
124.0-125.0	0.17	980.17	0.02	99.03
125.0-126.0	0.18	980.34	0.02	99.05
126.0-127.0	0.18	980.52	0.02	99.07
127.0-128.0	0.18	980.71	0.02	99.09
128.0-129.0	0.19	980.90	0.02	99.10
129.0-130.0	0.19	981.09	0.02	99.12
130.0-131.0	0.20	981.29	0.02	99.14
131.0-132.0	0.20	981.49	0.02	99.16
132.0-133.0	0.21	981.70	0.02	99.19
133.0-134.0	0.21	981.90	0.02	99.21
134.0-135.0	0.21	982.12	0.02	99.23
135.0-136.0	0.22	982.34	0.02	99.25
136.0-137.0	0.22	982.56	0.02	99.27
137.0-138.0	0.22	982.78	0.02	99.29
138.0-139.0	0.23	983.01	0.02	99.32
139.0-140.0	0.23	983.24	0.02	99.34
140.0-141.0	0.23	983.47	0.02	99.36
141.0-142.0	0.23	983.70	0.02	99.39
142.0-143.0	0.23	983.94	0.02	99.41
143.0-144.0	0.23	984.17	0.02	99.44
144.0-145.0	0.24	984.41	0.02	99.46
145.0-146.0	0.23	984.64	0.02	99.48
146.0-147.0	0.23	984.88	0.02	99.51
147.0-148.0	0.23	985.11	0.02	99.53
148.0-149.0	0.23	985.34	0.02	99.55
149.0-150.0	0.23	985.57	0.02	99.58
150.0-151.0	0.23	985.80	0.02	99.60
151.0-152.0	0.22	986.02	0.02	99.62
152.0-153.0	0.22	986.24	0.02	99.64
153.0-154.0	0.22	986.46	0.02	99.67
154.0-155.0	0.21	986.67	0.02	99.69
155.0-156.0	0.21	986.88	0.02	99.71
156.0-157.0	0.21	987.09	0.02	99.73
157.0-158.0	0.20	987.29	0.02	99.75
158.0-159.0	0.20	987.49	0.02	99.77
159.0-160.0	0.19	987.68	0.02	99.79
160.0-161.0	0.18	987.86	0.02	99.81
161.0-162.0	0.18	988.04	0.02	99.83
162.0-163.0	0.17	988.21	0.02	99.84
163.0-164.0	0.16	988.37	0.02	99.86
164.0-165.0	0.16	988.53	0.02	99.88
165.0-166.0	0.15	988.68	0.02	99.89
166.0-167.0	0.14	988.82	0.01	99.91
167.0-168.0	0.13	988.95	0.01	99.92
168.0-169.0	0.12	989.08	0.01	99.93
169.0-170.0	0.11	989.19	0.01	99.94
170.0-171.0	0.10	989.30	0.01	99.95
171.0-172.0	0.09	989.39	0.01	99.96
172.0-173.0	0.08	989.48	0.01	99.97
173.0-174.0	0.07	989.55	0.01	99.98
174.0-175.0	0.06	989.61	0.01	99.99
175.0-176.0	0.05	989.67	0.01	99.99
176.0-177.0	0.04	989.71	0.00	99.99
177.0-178.0	0.03	989.74	0.00	100.00
178.0-179.0	0.02	989.75	0.00	100.00
179.0-180.0	0.01	989.76	0.00	100.00

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-817024-3000K 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: 2020/10/13



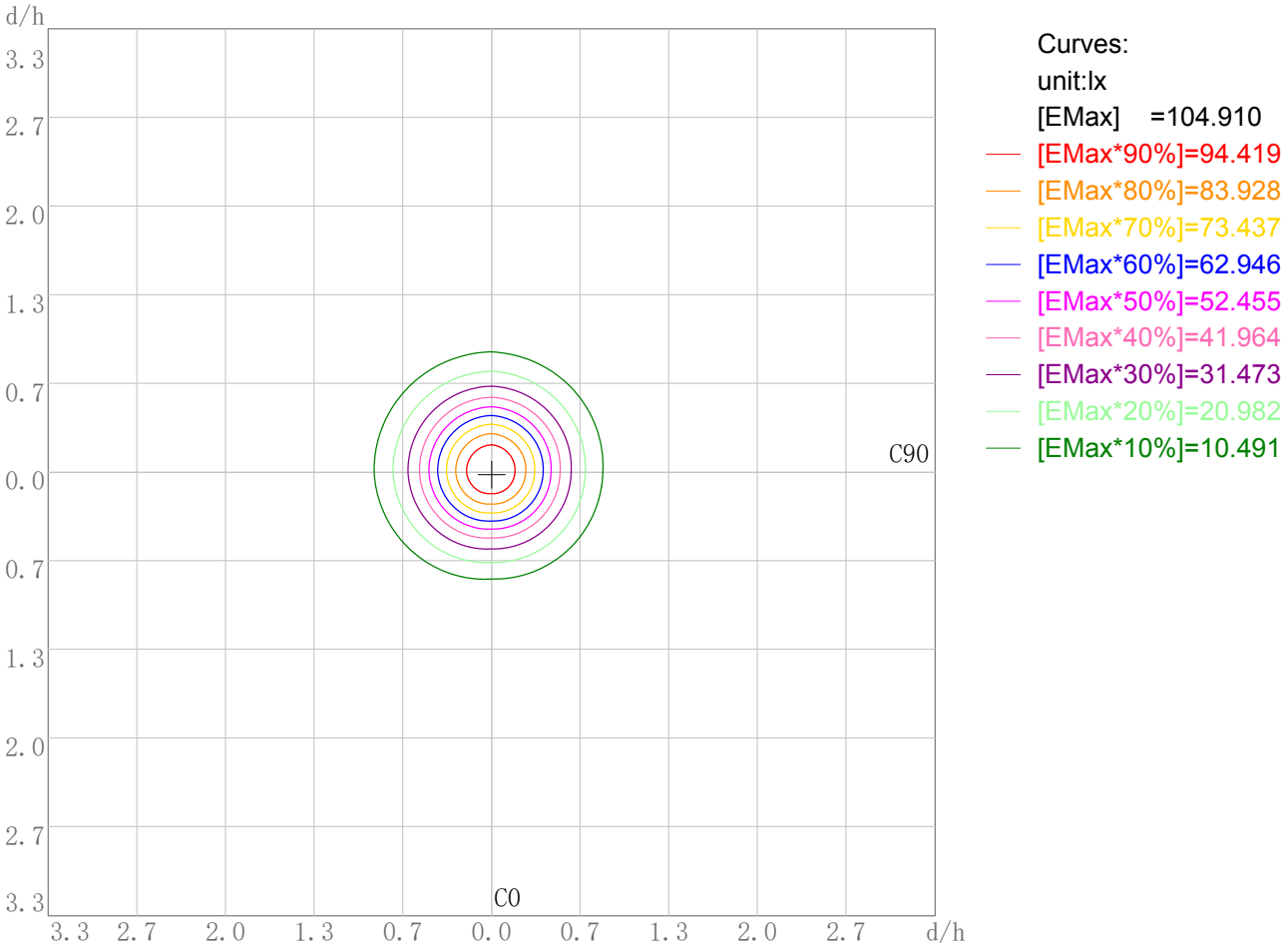
Maximum Light Intensity(cd): 945.14
Maximum Cand.@Angle: H=3.0°,V=0.0°

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Plane ISO-Illuminance Diagram

Lum.Name: HCP-817024-3000K 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: 2020/10/13

Plane ISO-Illuminance Curve



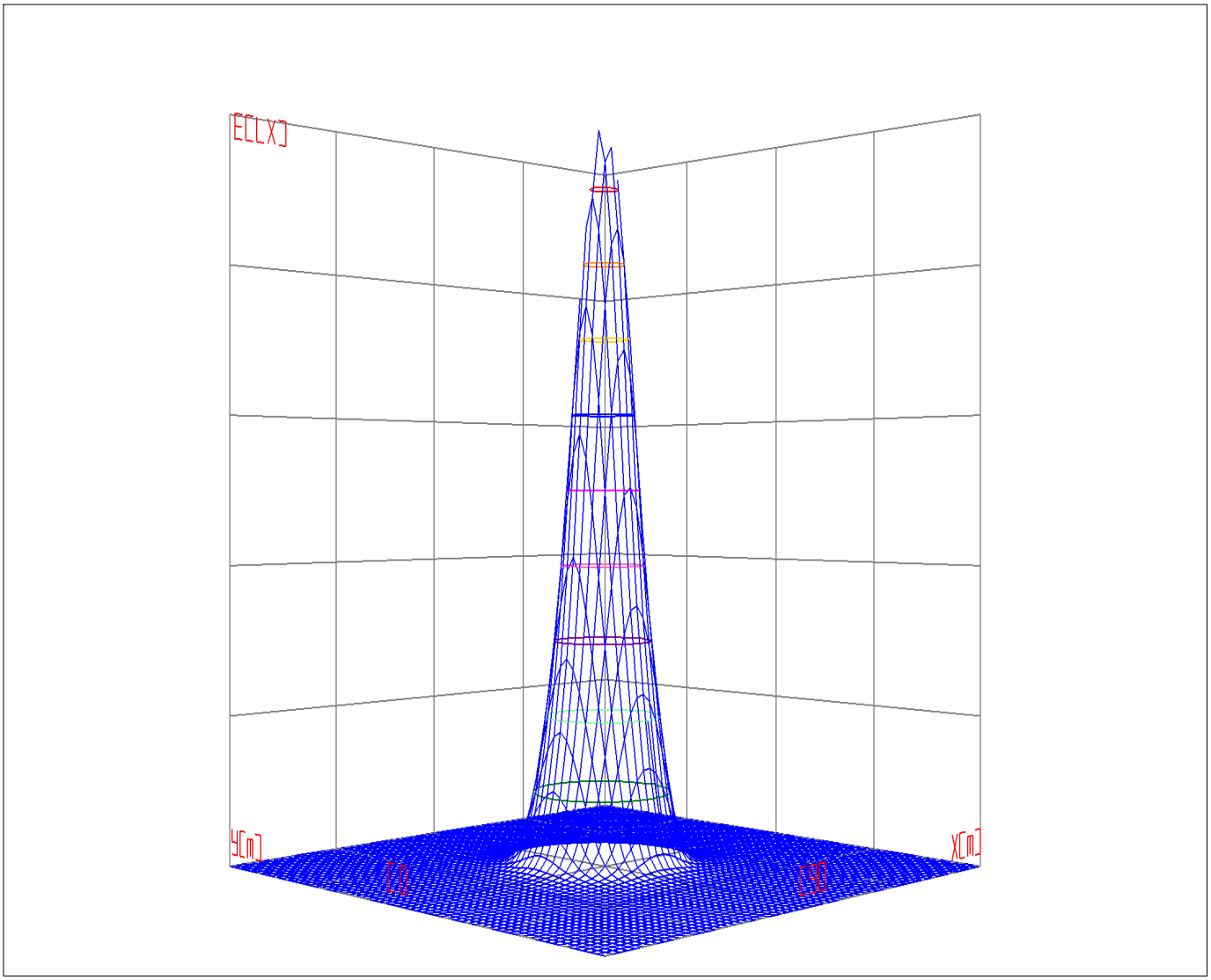
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 104.91
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-817024-3000K 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: 2020/10/13

3D Plane Illuminance Modal



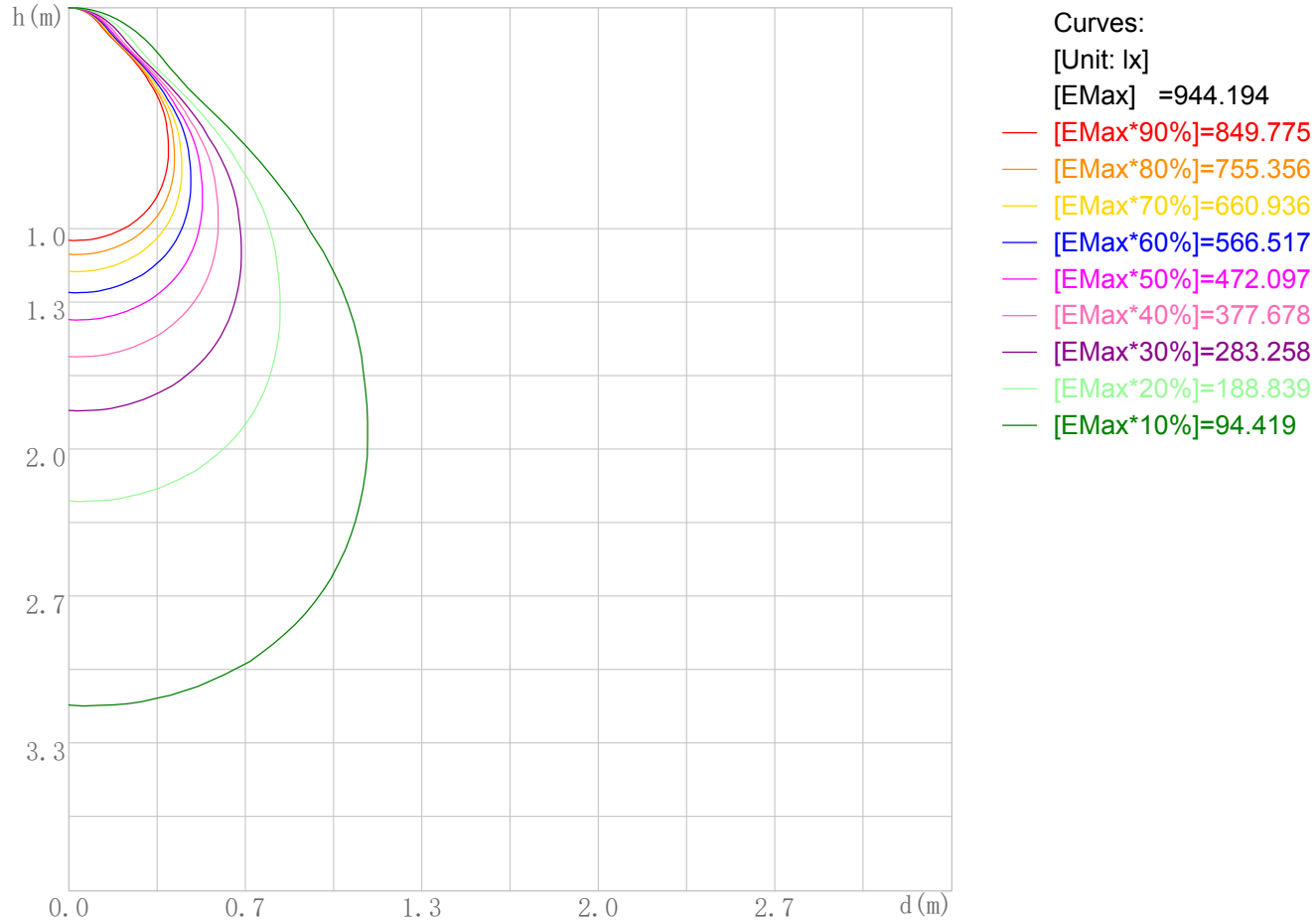
Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Space ISO Illuminance Diagram

Lum.Name: HCP-817024-3000K 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: 2020/10/13

Space ISO Illuminance Curve



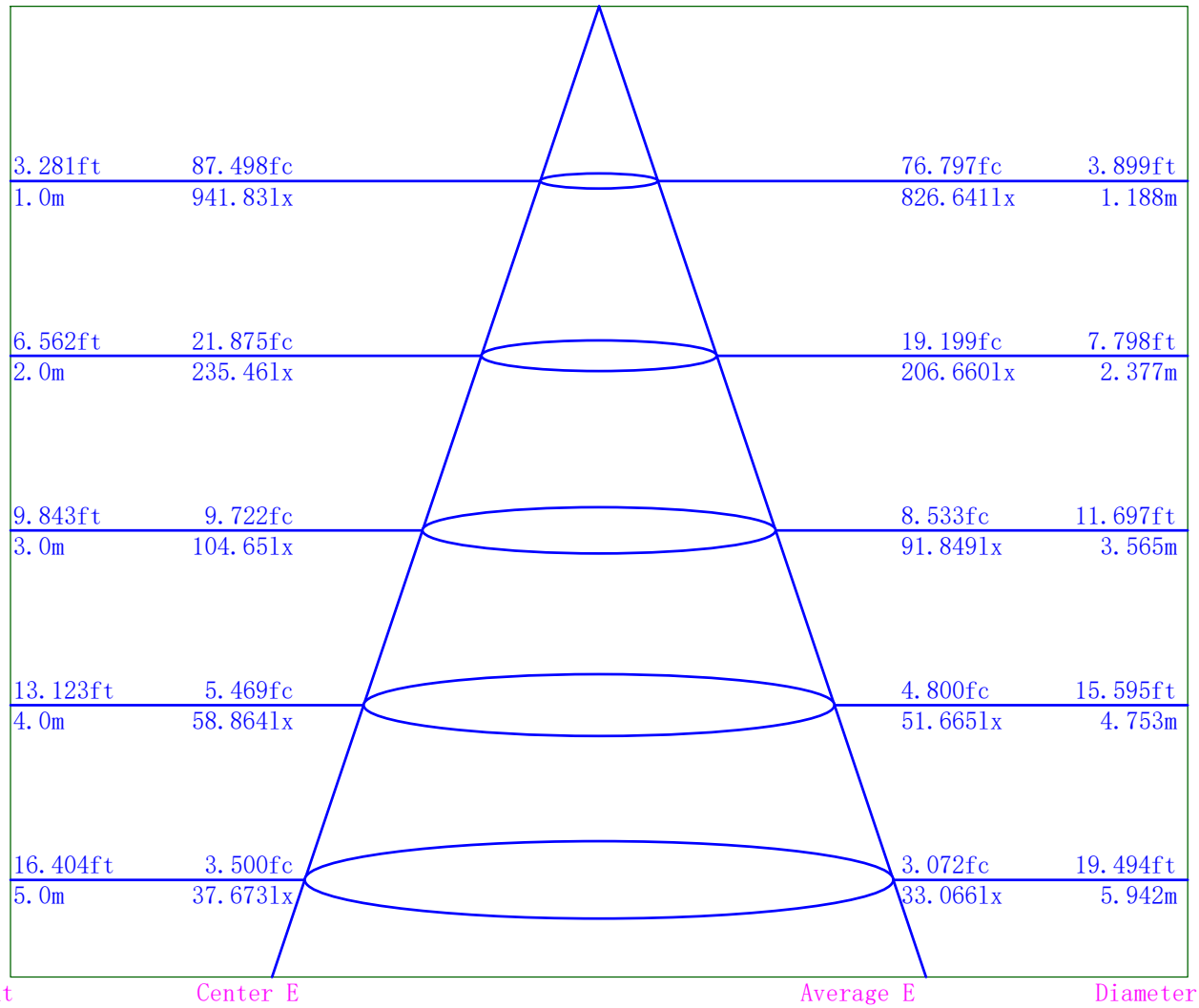
Space Plane Maximum Illuminance and @Angle:944.19lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:945.137cd,0eg

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Illuminance-Distance Diagram

Lum.Name: HCP-817024-3000K 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: 2020/10/13

Illuminance-Distance Curve



Beam Angle:61.4

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Indoor Luminance Limiting Curves

Lum.Name: HCP-817024-3000K 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: 2020/10/13

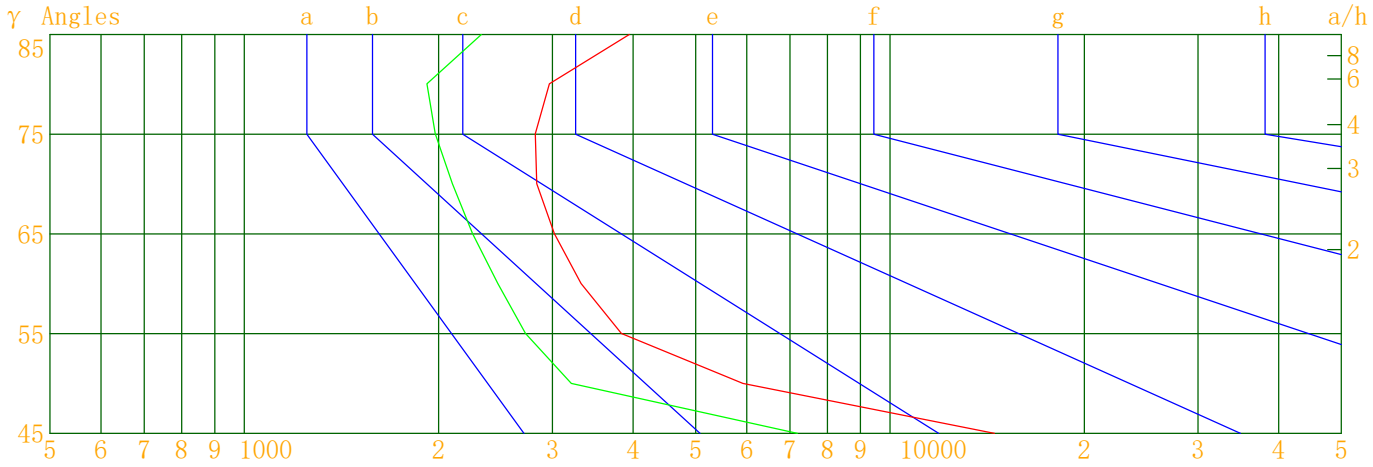
Glare Grade Table

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	14508	5920	3837	3323	3022	2838	2822	2969	3947
C90	7186	3210	2726	2470	2257	2101	1975	1917	2329

Luminance Limiting Curve

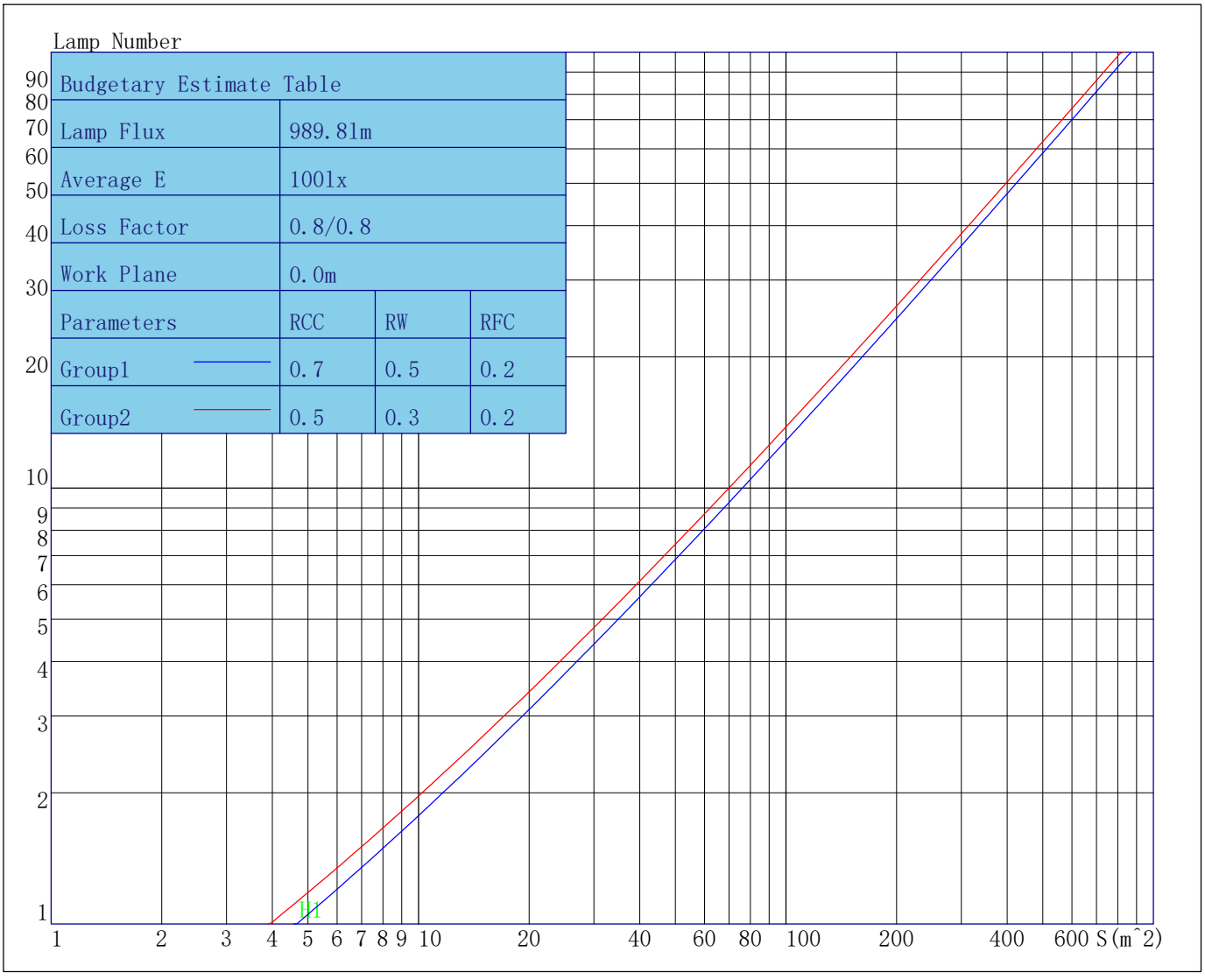


Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.080 Area(m^2)=0.015708
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Indoor Budgetary Estimate Table

Lum.Name: HCP-817024-3000K 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: 2020/10/13



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

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Indoor Coefficient of Utilization Table

Lum.Name: HCP-817024-3000K 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: 2020/10/13

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	112	109	106	104	110	107	104	102	103	101	99	98	97	95	95	94	92	90
2	106	101	96	92	104	99	95	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	81	86	82	79	83	80	78	76
4	94	86	80	75	92	85	79	75	82	78	74	80	76	73	78	75	72	70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	73	69	66	65
6	84	75	68	63	83	74	68	63	72	67	63	70	66	62	69	65	61	60
7	80	70	63	59	78	69	63	58	67	62	58	66	61	58	65	60	57	56
8	75	65	59	54	74	65	58	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	54	50	47	45

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Unified Glare Rating Table

Lum.Name: HCP-817024-3000K 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: 2020/10/13

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	19.0	18.3	19.3	19.7	16.1	17.2	16.5	17.5	17.9
	Y=3H	17.9	18.9	18.4	19.3	19.7	16.1	17.1	16.6	17.5	17.9
	Y=4H	18.0	18.9	18.4	19.3	19.7	16.2	17.1	16.6	17.5	17.9
	Y=6H	18.1	18.9	18.5	19.3	19.8	16.2	17.1	16.7	17.5	17.9
	Y=8H	18.1	18.9	18.6	19.3	19.8	16.2	17.0	16.7	17.5	17.9
	Y=12H	18.2	18.9	18.6	19.3	19.8	16.2	17.0	16.7	17.4	17.9
X=4H	Y=2H	17.7	18.6	18.1	19.0	19.4	15.9	16.8	16.4	17.2	17.7
	Y=3H	17.9	18.6	18.3	19.1	19.5	16.1	16.9	16.6	17.3	17.7
	Y=4H	18.0	18.7	18.5	19.1	19.6	16.2	16.9	16.7	17.4	17.8
	Y=6H	18.2	18.8	18.7	19.2	19.7	16.3	16.9	16.8	17.4	17.9
	Y=8H	18.3	18.8	18.8	19.3	19.8	16.4	16.9	16.9	17.4	17.9
	Y=12H	18.4	18.9	18.9	19.4	19.9	16.4	16.9	16.9	17.4	18.0
X=8H	Y=4H	17.9	18.5	18.4	19.0	19.5	16.2	16.8	16.7	17.2	17.7
	Y=6H	18.2	18.7	18.7	19.2	19.8	16.4	16.8	16.9	17.4	17.9
	Y=8H	18.3	18.8	18.9	19.3	19.8	16.5	16.9	17.0	17.4	18.0
	Y=12H	18.6	18.9	19.1	19.5	20.1	16.6	17.0	17.2	17.5	18.1
X=12H	Y=4H	17.9	18.4	18.4	18.9	19.4	16.2	16.7	16.7	17.2	17.7
	Y=6H	18.2	18.6	18.7	19.1	19.7	16.4	16.8	16.9	17.3	17.9
	Y=8H	18.4	18.8	18.9	19.3	19.9	16.5	16.9	17.1	17.4	18.0
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					0.7/-0.8				
S=2.0H		0.6/-0.7					0.9/-1.0				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		0.9					0.9				

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	941.83	941.83	941.83	941.83
γ 1.0	944.63	940.85	939.62	944.52
γ 2.0	944.14	935.85	935.57	943.35
γ 3.0	945.14	932.50	932.27	942.85
γ 4.0	945.03	927.94	925.20	938.94
γ 5.0	943.40	923.78	920.43	935.65
γ 6.0	939.17	918.19	912.24	930.27
γ 7.0	936.25	913.26	904.66	925.05
γ 8.0	930.71	905.43	894.38	917.08
γ 9.0	925.93	897.99	884.58	911.31
γ 10.0	917.82	887.44	871.22	901.36
γ 11.0	910.72	876.61	858.11	892.54
γ 12.0	902.32	863.41	842.44	881.60
γ 13.0	894.54	850.51	828.49	870.24
γ 14.0	881.84	835.28	810.64	855.63
γ 15.0	869.27	820.66	794.26	841.34
γ 16.0	855.85	801.69	773.80	824.72
γ 17.0	842.11	784.44	755.86	810.32
γ 18.0	826.65	764.75	734.14	792.10
γ 19.0	810.02	744.88	711.76	773.69
γ 20.0	791.85	723.38	686.80	753.29
γ 21.0	773.45	701.69	661.97	734.73
γ 22.0	751.60	675.94	635.29	713.26
γ 23.0	730.73	648.67	609.07	692.70
γ 24.0	707.47	620.59	581.42	668.62
γ 25.0	683.62	594.56	556.08	644.38
γ 26.0	658.74	568.01	529.56	618.01
γ 27.0	633.83	541.92	505.70	594.26
γ 28.0	608.47	516.55	480.05	568.89
γ 29.0	582.60	493.48	456.31	543.34
γ 30.0	554.36	467.52	433.63	518.95
γ 31.0	528.04	443.99	411.77	495.29
γ 32.0	502.28	422.27	387.53	470.53
γ 33.0	475.68	400.41	363.09	448.42
γ 34.0	449.94	374.63	336.50	427.35
γ 35.0	427.70	349.13	308.25	404.63
γ 36.0	403.05	319.87	278.39	379.27
γ 37.0	378.29	290.71	249.55	352.77
γ 38.0	352.49	261.61	219.47	323.95
γ 39.0	325.66	233.17	191.29	295.17
γ 40.0	295.68	204.95	162.77	265.75
γ 41.0	268.40	177.57	135.92	237.47
γ 42.0	234.97	150.60	110.43	209.33
γ 43.0	213.19	125.11	87.46	182.32
γ 44.0	187.19	101.09	67.67	155.32
γ 45.0	161.14	79.82	52.11	129.69
γ 46.0	136.86	61.17	42.08	104.81

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	113.63	47.48	35.75	83.15
γ 48.0	92.35	39.38	31.55	64.43
γ 49.0	73.71	35.15	28.61	50.81
γ 50.0	59.77	32.41	26.29	42.16
γ 51.0	50.52	29.98	25.18	37.22
γ 52.0	45.04	27.95	24.18	33.54
γ 53.0	41.04	26.94	23.17	30.60
γ 54.0	37.37	25.77	22.14	28.53
γ 55.0	34.57	24.56	21.25	27.18
γ 56.0	32.54	23.48	20.38	25.67
γ 57.0	30.78	22.52	19.57	24.33
γ 58.0	29.03	21.56	18.57	23.17
γ 59.0	27.46	20.56	17.67	22.20
γ 60.0	26.10	19.40	16.84	21.24
γ 61.0	24.82	18.39	16.12	20.29
γ 62.0	23.56	17.48	15.46	19.24
γ 63.0	22.33	16.67	14.76	18.39
γ 64.0	21.09	15.87	13.94	17.60
γ 65.0	20.06	14.98	13.31	16.92
γ 66.0	19.07	14.09	12.70	16.17
γ 67.0	18.09	13.32	12.16	15.31
γ 68.0	17.14	12.58	11.61	14.56
γ 69.0	16.16	11.94	11.02	13.91
γ 70.0	15.24	11.28	10.35	13.35
γ 71.0	14.48	10.54	9.84	12.83
γ 72.0	13.75	9.81	9.27	12.28
γ 73.0	13.03	9.21	8.75	11.61
γ 74.0	12.26	8.62	8.09	10.95
γ 75.0	11.47	8.03	7.47	10.38
γ 76.0	10.79	7.35	6.96	9.87
γ 77.0	10.11	6.77	6.52	9.32
γ 78.0	9.50	6.24	6.00	8.66
γ 79.0	8.82	5.75	5.43	8.09
γ 80.0	8.10	5.23	4.95	7.57
γ 81.0	7.50	4.66	4.52	7.07
γ 82.0	7.01	4.21	4.11	6.53
γ 83.0	6.51	3.86	3.66	5.97
γ 84.0	5.95	3.54	3.28	5.50
γ 85.0	5.40	3.19	2.99	5.11
γ 86.0	4.97	2.84	2.63	4.71
γ 87.0	4.61	2.53	2.33	4.29
γ 88.0	4.27	2.21	2.18	3.90
γ 89.0	3.91	2.02	2.10	3.49
γ 90.0	3.55	1.92	2.01	3.03
γ 91.0	3.10	1.84	1.93	2.81
γ 92.0	2.76	1.75	1.84	2.68
γ 93.0	2.61	1.68	1.78	2.58

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	2.49	1.61	1.70	2.47
γ 95.0	2.40	1.53	1.65	2.37
γ 96.0	2.29	1.46	1.59	2.27
γ 97.0	2.20	1.40	1.54	2.20
γ 98.0	2.11	1.35	1.48	2.11
γ 99.0	2.02	1.30	1.45	2.03
γ 100.0	1.94	1.25	1.40	1.96
γ 101.0	1.87	1.21	1.38	1.90
γ 102.0	1.80	1.18	1.34	1.84
γ 103.0	1.74	1.15	1.34	1.79
γ 104.0	1.68	1.11	1.32	1.74
γ 105.0	1.63	1.10	1.31	1.70
γ 106.0	1.57	1.09	1.31	1.66
γ 107.0	1.54	1.09	1.32	1.64
γ 108.0	1.50	1.08	1.32	1.61
γ 109.0	1.48	1.09	1.34	1.60
γ 110.0	1.46	1.10	1.35	1.59
γ 111.0	1.43	1.10	1.37	1.59
γ 112.0	1.43	1.13	1.40	1.58
γ 113.0	1.43	1.15	1.45	1.59
γ 114.0	1.42	1.16	1.48	1.60
γ 115.0	1.43	1.21	1.53	1.62
γ 116.0	1.44	1.24	1.57	1.63
γ 117.0	1.45	1.29	1.63	1.67
γ 118.0	1.47	1.33	1.67	1.69
γ 119.0	1.50	1.38	1.74	1.73
γ 120.0	1.53	1.43	1.80	1.77
γ 121.0	1.56	1.49	1.88	1.81
γ 122.0	1.61	1.55	1.94	1.86
γ 123.0	1.65	1.62	2.03	1.92
γ 124.0	1.70	1.69	2.10	1.98
γ 125.0	1.76	1.77	2.18	2.03
γ 126.0	1.81	1.84	2.27	2.10
γ 127.0	1.87	1.93	2.35	2.17
γ 128.0	1.94	2.02	2.43	2.24
γ 129.0	2.01	2.10	2.54	2.31
γ 130.0	2.09	2.19	2.63	2.39
γ 131.0	2.16	2.28	2.73	2.47
γ 132.0	2.24	2.37	2.83	2.55
γ 133.0	2.33	2.47	2.94	2.64
γ 134.0	2.41	2.57	3.02	2.73
γ 135.0	2.50	2.67	3.14	2.82
γ 136.0	2.59	2.76	3.24	2.91
γ 137.0	2.69	2.87	3.34	3.01
γ 138.0	2.79	2.97	3.43	3.10
γ 139.0	2.88	3.08	3.54	3.20
γ 140.0	2.99	3.18	3.64	3.30

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	3.09	3.27	3.74	3.39
γ 142.0	3.19	3.36	3.82	3.46
γ 143.0	3.28	3.46	3.92	3.56
γ 144.0	3.37	3.55	4.01	3.65
γ 145.0	3.46	3.64	4.10	3.75
γ 146.0	3.55	3.73	4.17	3.83
γ 147.0	3.64	3.82	4.26	3.91
γ 148.0	3.73	3.91	4.34	4.00
γ 149.0	3.82	3.99	4.42	4.08
γ 150.0	3.90	4.07	4.50	4.16
γ 151.0	3.98	4.16	4.59	4.25
γ 152.0	4.07	4.26	4.66	4.33
γ 153.0	4.15	4.34	4.75	4.40
γ 154.0	4.23	4.42	4.81	4.48
γ 155.0	4.33	4.51	4.91	4.57
γ 156.0	4.42	4.60	4.98	4.65
γ 157.0	4.50	4.68	5.07	4.74
γ 158.0	4.59	4.77	5.14	4.81
γ 159.0	4.68	4.86	5.22	4.89
γ 160.0	4.76	4.95	5.29	4.96
γ 161.0	4.85	5.03	5.36	5.06
γ 162.0	4.95	5.12	5.43	5.13
γ 163.0	5.03	5.20	5.52	5.21
γ 164.0	5.11	5.28	5.58	5.28
γ 165.0	5.19	5.37	5.65	5.37
γ 166.0	5.28	5.44	5.72	5.43
γ 167.0	5.36	5.52	5.80	5.52
γ 168.0	5.45	5.61	5.85	5.58
γ 169.0	5.53	5.66	5.93	5.66
γ 170.0	5.61	5.74	5.97	5.73
γ 171.0	5.68	5.80	6.03	5.78
γ 172.0	5.75	5.87	6.08	5.86
γ 173.0	5.83	5.92	6.12	5.92
γ 174.0	5.90	5.98	6.16	5.99
γ 175.0	5.96	6.02	6.18	6.02
γ 176.0	6.02	6.07	6.21	6.08
γ 177.0	6.07	6.09	6.23	6.12
γ 178.0	6.11	6.13	6.23	6.14
γ 179.0	6.14	6.14	6.23	6.16
γ 180.0	6.18	6.18	6.18	6.18