IES Indoor Report
Photometric Filename:HCP-173400-R-4000k.IES

Indoor Luminaire Photometric Data

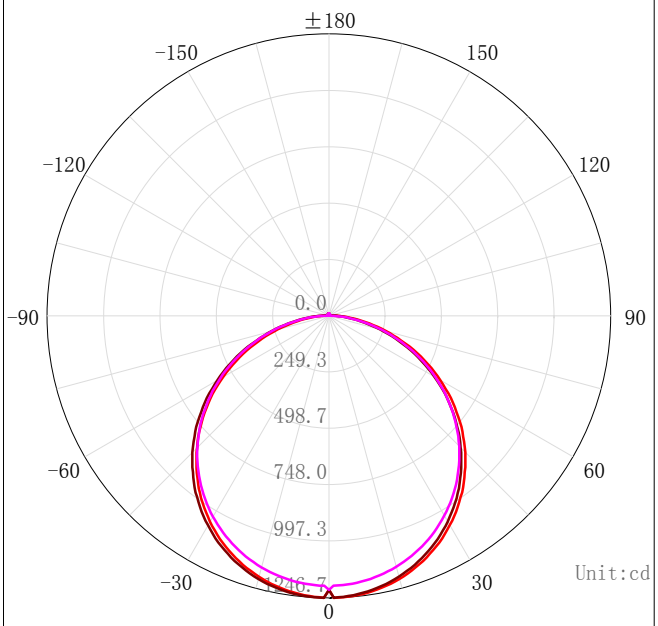
Description Information

Luminary Name: HCP-173400-R		Lum. Catelog:	Test ID: 001
Lamp Name: 26~28		Lamp Catelog:	Test Date: 2020/07/13
Manufacture: Havit Commercial		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.300m*1.200m*0.000m		Lum.Area(m2):0.360	Lum.W(kg): 1.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp.(℃): 25	Humidity(%): 50.0

Character Parameter

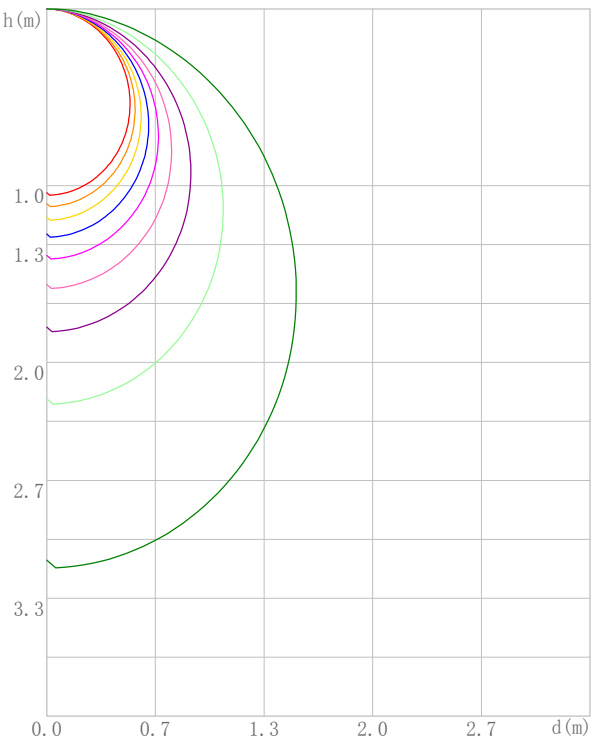
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 3570.200	Luminary Flux(lm): 3570.200	Field Angle(10%Imax): 163.4(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 3531.582lm 98.92%
Rated Voltage(V):	Luminary EER(lm/W): 96.388	Up Lumens&Percent: 38.618lm 1.08%
Tested Power(W): 37.040	Max.Candela(cd): 1246.670	S/MH: C0_a180=1.294 C90_270=1.257
Lamps' Inside: 1	Max Cand@Ang.(°): C=180.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):239.9,0.158,0.973	Beam Angle(50%Imax): 113.1(°)	ErP Φuse(120°): 2749.094lm
Lamp Size(W*L*H):0.300m*1.200m*0.000m	Left=-55.8°,Right=57.3°	IRF(%): 111.331

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C180.0_360.0:	113.1	163.4
C0.0_180.0 :	113.1	163.4
C90.0_270.0 :	114.2	163.9

C0 Space ISO Illuminance Curve



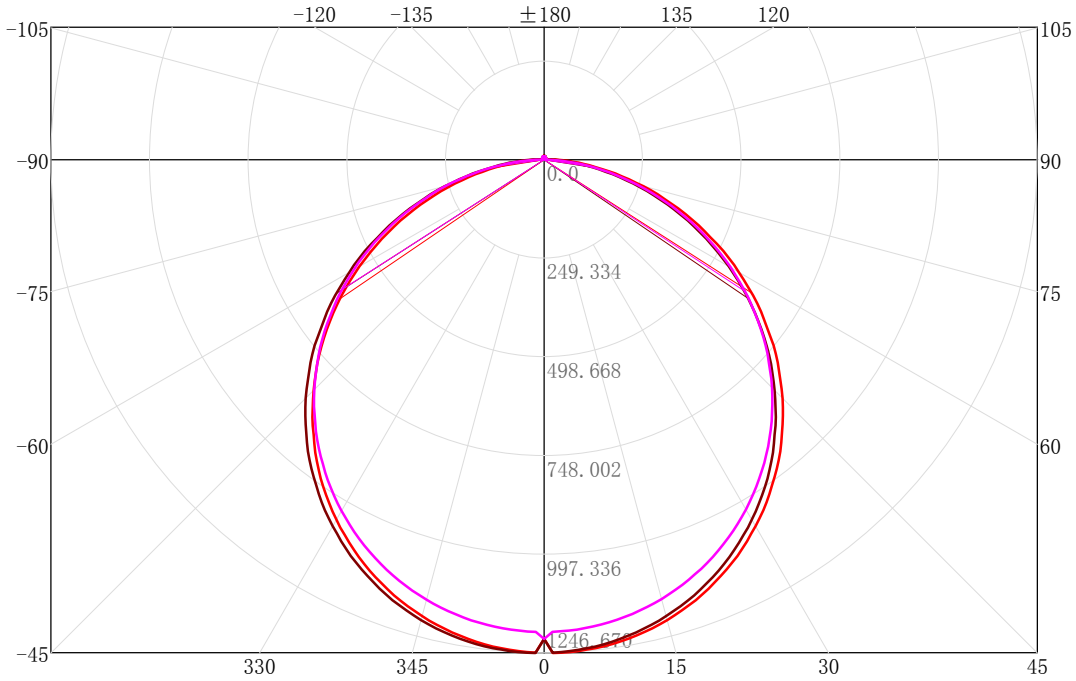
[Unit:lx] [EMax]=1245.587 —[EMax*90%] —[EMax*80%] —[EMax*70%] —[EMax*60%] —[EMax*50%] —[EMax*40%] —[EMax*30%] —[EMax*20%] —[EMax*10%]

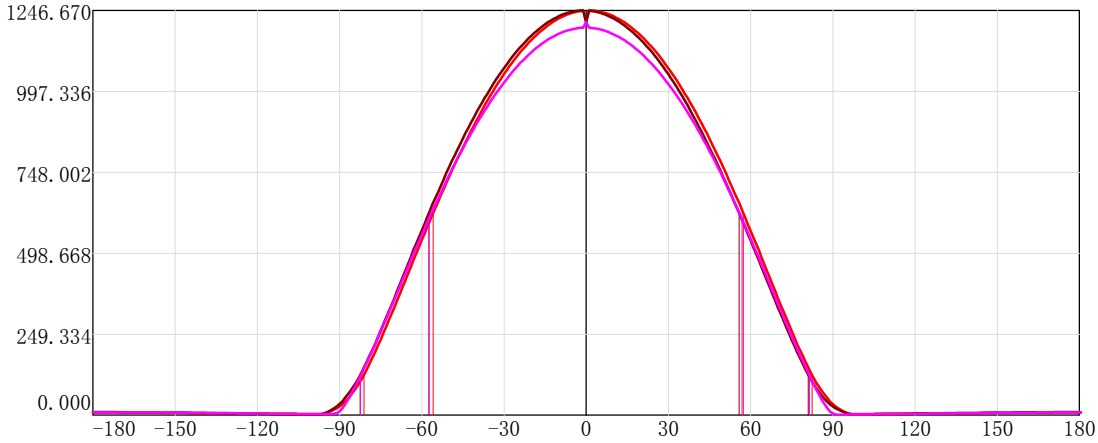
IES Indoor Report
Photometric Filename:HCP-173400-R-4000k.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

C Plane Distribution Diagram



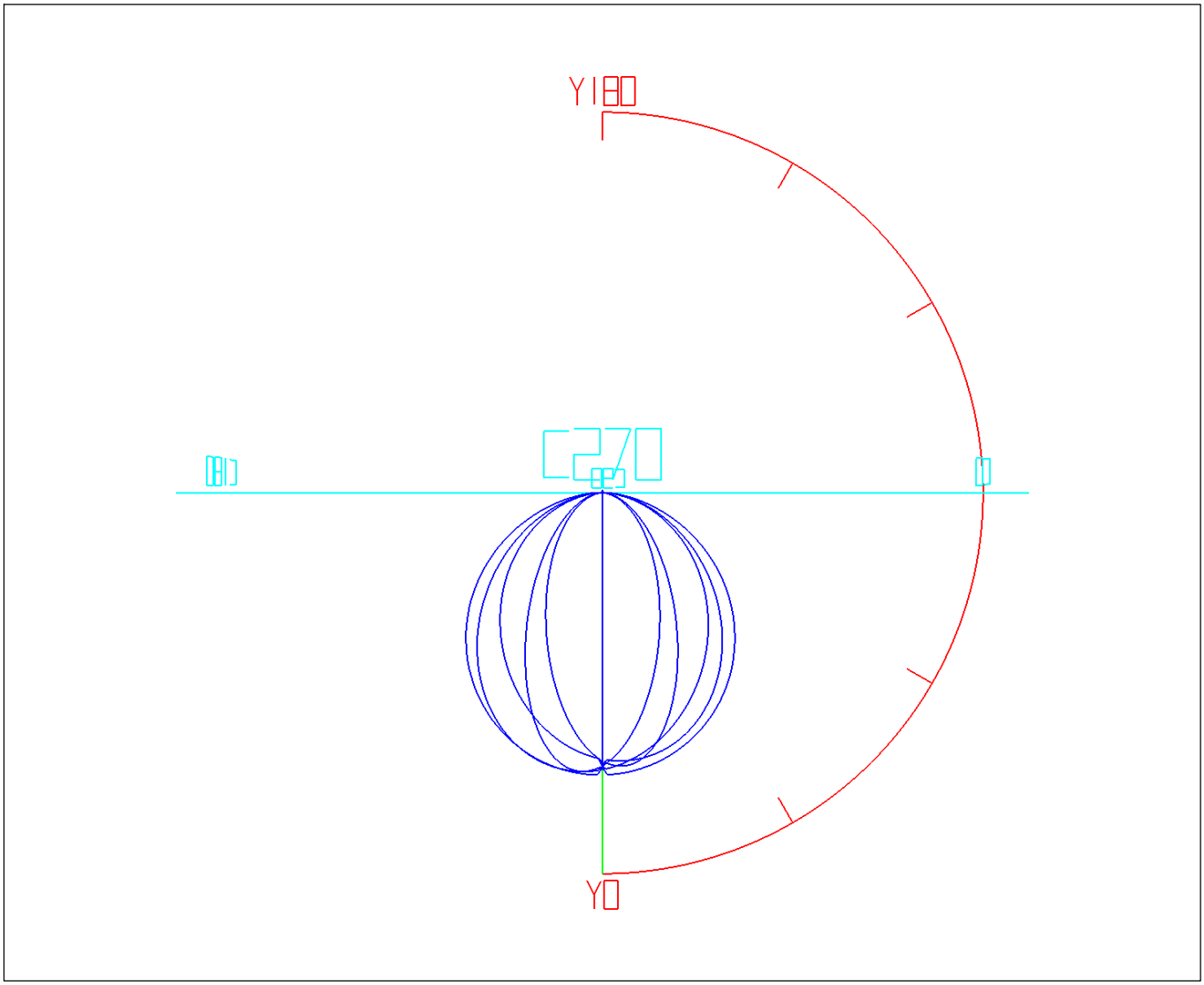


C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C180.0_360.0:	113.1	163.4	
C0.0_180.0 :	113.1	163.4	
C90.0_270.0 :	114.2	163.9	

3D Light Intensity Distribution Modal

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

3D Light Intensity Distribution Modal



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

IES Indoor Report
Photometric Filename:HCP-173400-R-4000k.IES

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	1.16	1.16	0.03	0.03	47.0-48.0	62.72	2050.83	1.76	57.44
1.0-2.0	3.46	4.61	0.10	0.13	48.0-49.0	62.33	2113.16	1.75	59.19
2.0-3.0	5.76	10.37	0.16	0.29	49.0-50.0	61.85	2175.01	1.73	60.92
3.0-4.0	8.05	18.42	0.23	0.52	50.0-51.0	61.27	2236.28	1.72	62.64
4.0-5.0	10.33	28.76	0.29	0.81	51.0-52.0	60.59	2296.87	1.70	64.33
5.0-6.0	12.60	41.36	0.35	1.16	52.0-53.0	59.81	2356.68	1.68	66.01
6.0-7.0	14.85	56.21	0.42	1.57	53.0-54.0	58.97	2415.64	1.65	67.66
7.0-8.0	17.09	73.30	0.48	2.05	54.0-55.0	58.08	2473.73	1.63	69.29
8.0-9.0	19.30	92.59	0.54	2.59	55.0-56.0	57.13	2530.85	1.60	70.89
9.0-10.0	21.48	114.07	0.60	3.20	56.0-57.0	56.06	2586.92	1.57	72.46
10.0-11.0	23.64	137.71	0.66	3.86	57.0-58.0	54.91	2641.82	1.54	74.00
11.0-12.0	25.76	163.47	0.72	4.58	58.0-59.0	53.67	2695.49	1.50	75.50
12.0-13.0	27.86	191.33	0.78	5.36	59.0-60.0	52.37	2747.87	1.47	76.97
13.0-14.0	29.91	221.24	0.84	6.20	60.0-61.0	51.06	2798.92	1.43	78.40
14.0-15.0	31.93	253.17	0.89	7.09	61.0-62.0	49.67	2848.60	1.39	79.79
15.0-16.0	33.90	287.08	0.95	8.04	62.0-63.0	48.19	2896.79	1.35	81.14
16.0-17.0	35.83	322.91	1.00	9.04	63.0-64.0	46.64	2943.43	1.31	82.44
17.0-18.0	37.72	360.63	1.06	10.10	64.0-65.0	45.00	2988.44	1.26	83.70
18.0-19.0	39.55	400.18	1.11	11.21	65.0-66.0	43.34	3031.78	1.21	84.92
19.0-20.0	41.34	441.52	1.16	12.37	66.0-67.0	41.69	3073.47	1.17	86.09
20.0-21.0	43.07	484.59	1.21	13.57	67.0-68.0	39.98	3113.45	1.12	87.21
21.0-22.0	44.74	529.32	1.25	14.83	68.0-69.0	38.20	3151.64	1.07	88.28
22.0-23.0	46.35	575.67	1.30	16.12	69.0-70.0	36.36	3188.00	1.02	89.29
23.0-24.0	47.90	623.57	1.34	17.47	70.0-71.0	34.47	3222.47	0.97	90.26
24.0-25.0	49.39	672.97	1.38	18.85	71.0-72.0	32.59	3255.06	0.91	91.17
25.0-26.0	50.82	723.79	1.42	20.27	72.0-73.0	30.73	3285.79	0.86	92.03
26.0-27.0	52.18	775.97	1.46	21.73	73.0-74.0	28.85	3314.64	0.81	92.84
27.0-28.0	53.47	829.44	1.50	23.23	74.0-75.0	26.93	3341.57	0.75	93.60
28.0-29.0	54.68	884.12	1.53	24.76	75.0-76.0	24.99	3366.56	0.70	94.30
29.0-30.0	55.83	939.95	1.56	26.33	76.0-77.0	23.03	3389.58	0.64	94.94
30.0-31.0	56.91	996.85	1.59	27.92	77.0-78.0	21.09	3410.68	0.59	95.53
31.0-32.0	57.91	1054.77	1.62	29.54	78.0-79.0	19.23	3429.90	0.54	96.07
32.0-33.0	58.83	1113.60	1.65	31.19	79.0-80.0	17.38	3447.28	0.49	96.56
33.0-34.0	59.67	1173.27	1.67	32.86	80.0-81.0	15.52	3462.80	0.43	96.99
34.0-35.0	60.42	1233.69	1.69	34.56	81.0-82.0	13.69	3476.49	0.38	97.38
35.0-36.0	61.10	1294.80	1.71	36.27	82.0-83.0	11.91	3488.40	0.33	97.71
36.0-37.0	61.72	1356.52	1.73	38.00	83.0-84.0	10.24	3498.64	0.29	98.00
37.0-38.0	62.24	1418.76	1.74	39.74	84.0-85.0	8.70	3507.34	0.24	98.24
38.0-39.0	62.67	1481.43	1.76	41.49	85.0-86.0	7.26	3514.60	0.20	98.44
39.0-40.0	63.00	1544.43	1.76	43.26	86.0-87.0	5.92	3520.51	0.17	98.61
40.0-41.0	63.25	1607.68	1.77	45.03	87.0-88.0	4.70	3525.22	0.13	98.74
41.0-42.0	63.43	1671.11	1.78	46.81	88.0-89.0	3.63	3528.85	0.10	98.84
42.0-43.0	63.54	1734.65	1.78	48.59	89.0-90.0	2.74	3531.58	0.08	98.92
43.0-44.0	63.57	1798.23	1.78	50.37	90.0-91.0	2.04	3533.63	0.06	98.98
44.0-45.0	63.50	1861.72	1.78	52.15	91.0-92.0	1.51	3535.14	0.04	99.02
45.0-46.0	63.32	1925.05	1.77	53.92	92.0-93.0	1.10	3536.23	0.03	99.05
46.0-47.0	63.06	1988.10	1.77	55.69	93.0-94.0	0.79	3537.02	0.02	99.07

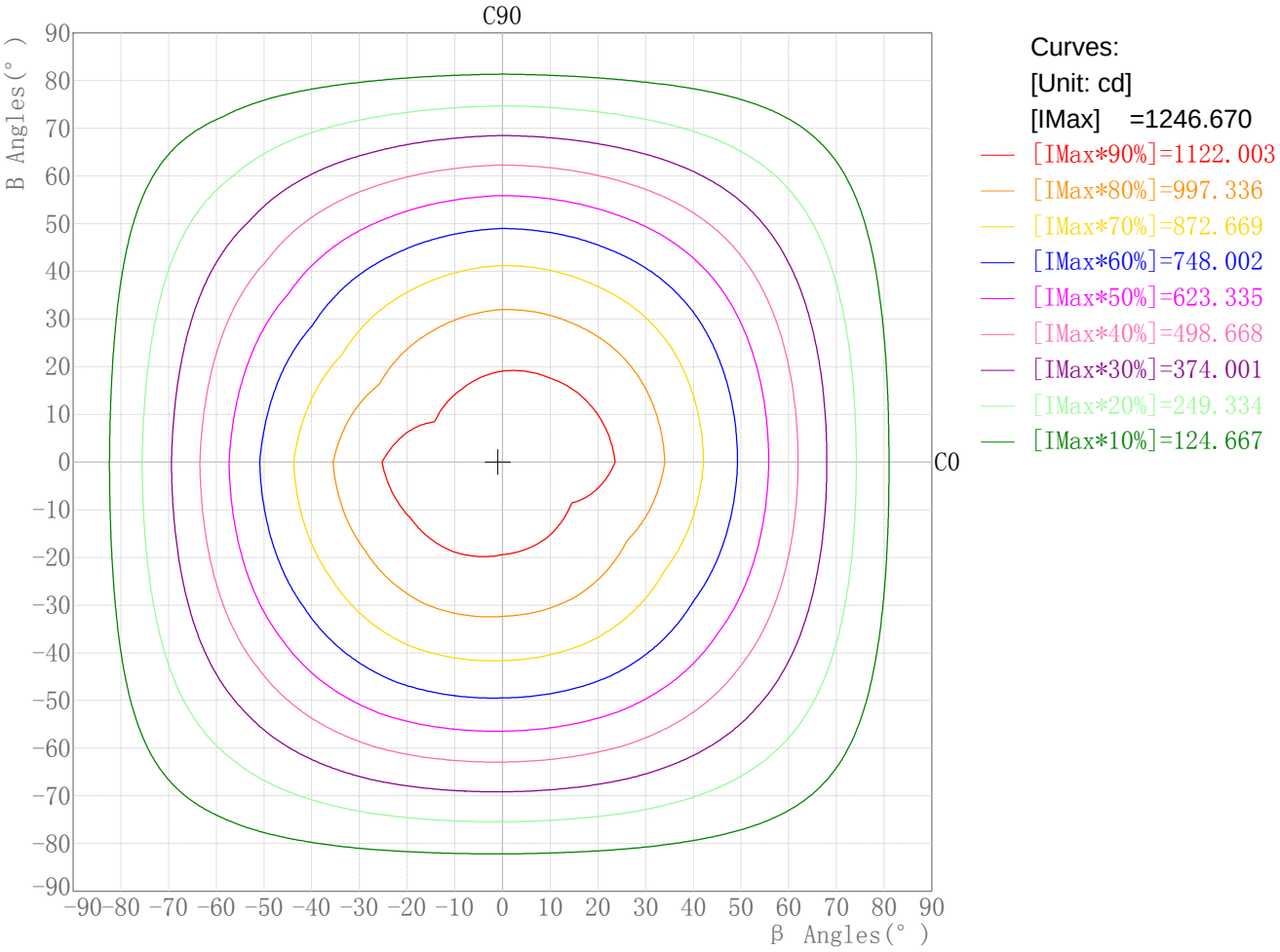
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.58	3537.60	0.02	99.09
95.0-96.0	0.45	3538.05	0.01	99.10
96.0-97.0	0.39	3538.44	0.01	99.11
97.0-98.0	0.37	3538.81	0.01	99.12
98.0-99.0	0.37	3539.18	0.01	99.13
99.0-100.0	0.37	3539.55	0.01	99.14
100.0-101.0	0.38	3539.93	0.01	99.15
101.0-102.0	0.39	3540.31	0.01	99.16
102.0-103.0	0.40	3540.71	0.01	99.17
103.0-104.0	0.40	3541.11	0.01	99.19
104.0-105.0	0.41	3541.52	0.01	99.20
105.0-106.0	0.42	3541.94	0.01	99.21
106.0-107.0	0.42	3542.36	0.01	99.22
107.0-108.0	0.43	3542.79	0.01	99.23
108.0-109.0	0.43	3543.22	0.01	99.24
109.0-110.0	0.44	3543.66	0.01	99.26
110.0-111.0	0.45	3544.11	0.01	99.27
111.0-112.0	0.45	3544.56	0.01	99.28
112.0-113.0	0.46	3545.02	0.01	99.29
113.0-114.0	0.46	3545.48	0.01	99.31
114.0-115.0	0.47	3545.95	0.01	99.32
115.0-116.0	0.47	3546.42	0.01	99.33
116.0-117.0	0.48	3546.90	0.01	99.35
117.0-118.0	0.48	3547.38	0.01	99.36
118.0-119.0	0.49	3547.87	0.01	99.37
119.0-120.0	0.49	3548.36	0.01	99.39
120.0-121.0	0.50	3548.86	0.01	99.40
121.0-122.0	0.50	3549.36	0.01	99.42
122.0-123.0	0.50	3549.86	0.01	99.43
123.0-124.0	0.50	3550.36	0.01	99.44
124.0-125.0	0.51	3550.87	0.01	99.46
125.0-126.0	0.51	3551.38	0.01	99.47
126.0-127.0	0.51	3551.89	0.01	99.49
127.0-128.0	0.51	3552.40	0.01	99.50
128.0-129.0	0.51	3552.92	0.01	99.52
129.0-130.0	0.52	3553.43	0.01	99.53
130.0-131.0	0.52	3553.95	0.01	99.54
131.0-132.0	0.52	3554.46	0.01	99.56
132.0-133.0	0.51	3554.98	0.01	99.57
133.0-134.0	0.51	3555.49	0.01	99.59
134.0-135.0	0.51	3556.00	0.01	99.60
135.0-136.0	0.51	3556.51	0.01	99.62
136.0-137.0	0.50	3557.01	0.01	99.63
137.0-138.0	0.50	3557.51	0.01	99.64
138.0-139.0	0.50	3558.01	0.01	99.66
139.0-140.0	0.49	3558.50	0.01	99.67
140.0-141.0	0.49	3558.99	0.01	99.69
141.0-142.0	0.49	3559.48	0.01	99.70
142.0-143.0	0.48	3559.96	0.01	99.71
143.0-144.0	0.47	3560.43	0.01	99.73
144.0-145.0	0.47	3560.90	0.01	99.74
145.0-146.0	0.46	3561.36	0.01	99.75
146.0-147.0	0.45	3561.81	0.01	99.77
147.0-148.0	0.45	3562.26	0.01	99.78
148.0-149.0	0.44	3562.70	0.01	99.79
149.0-150.0	0.43	3563.13	0.01	99.80
150.0-151.0	0.42	3563.56	0.01	99.81
151.0-152.0	0.41	3563.97	0.01	99.83
152.0-153.0	0.40	3564.37	0.01	99.84
153.0-154.0	0.39	3564.76	0.01	99.85
154.0-155.0	0.38	3565.15	0.01	99.86
155.0-156.0	0.37	3565.52	0.01	99.87
156.0-157.0	0.36	3565.88	0.01	99.88
157.0-158.0	0.35	3566.23	0.01	99.89
158.0-159.0	0.34	3566.56	0.01	99.90
159.0-160.0	0.32	3566.88	0.01	99.91
160.0-161.0	0.31	3567.19	0.01	99.92
161.0-162.0	0.30	3567.49	0.01	99.92
162.0-163.0	0.28	3567.77	0.01	99.93
163.0-164.0	0.27	3568.04	0.01	99.94
164.0-165.0	0.25	3568.29	0.01	99.95
165.0-166.0	0.24	3568.53	0.01	99.95
166.0-167.0	0.22	3568.76	0.01	99.96
167.0-168.0	0.21	3568.97	0.01	99.97
168.0-169.0	0.19	3569.16	0.01	99.97
169.0-170.0	0.18	3569.34	0.00	99.98
170.0-171.0	0.16	3569.50	0.00	99.98
171.0-172.0	0.15	3569.65	0.00	99.98
172.0-173.0	0.13	3569.78	0.00	99.99
173.0-174.0	0.11	3569.89	0.00	99.99
174.0-175.0	0.10	3569.98	0.00	99.99
175.0-176.0	0.08	3570.06	0.00	100.00
176.0-177.0	0.06	3570.12	0.00	100.00
177.0-178.0	0.04	3570.17	0.00	100.00
178.0-179.0	0.03	3570.19	0.00	100.00
179.0-180.0	0.01	3570.20	0.00	100.00

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

ISO Lighting Intensity Curve

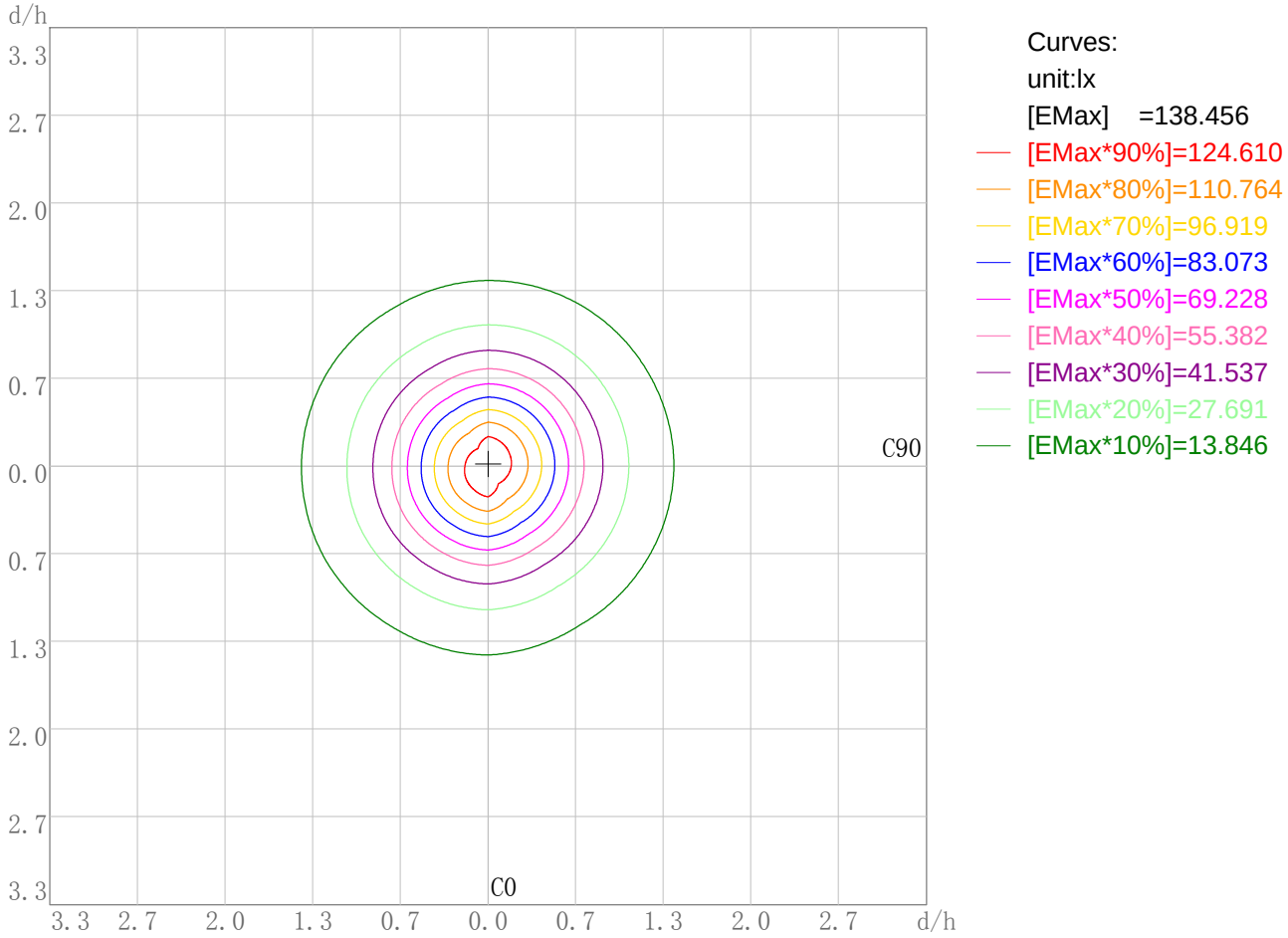


Maximum Light Intensity(cd): 1246.67
Maximum Cand.@Angle: H=-1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

Plane ISO-Illuminance Curve

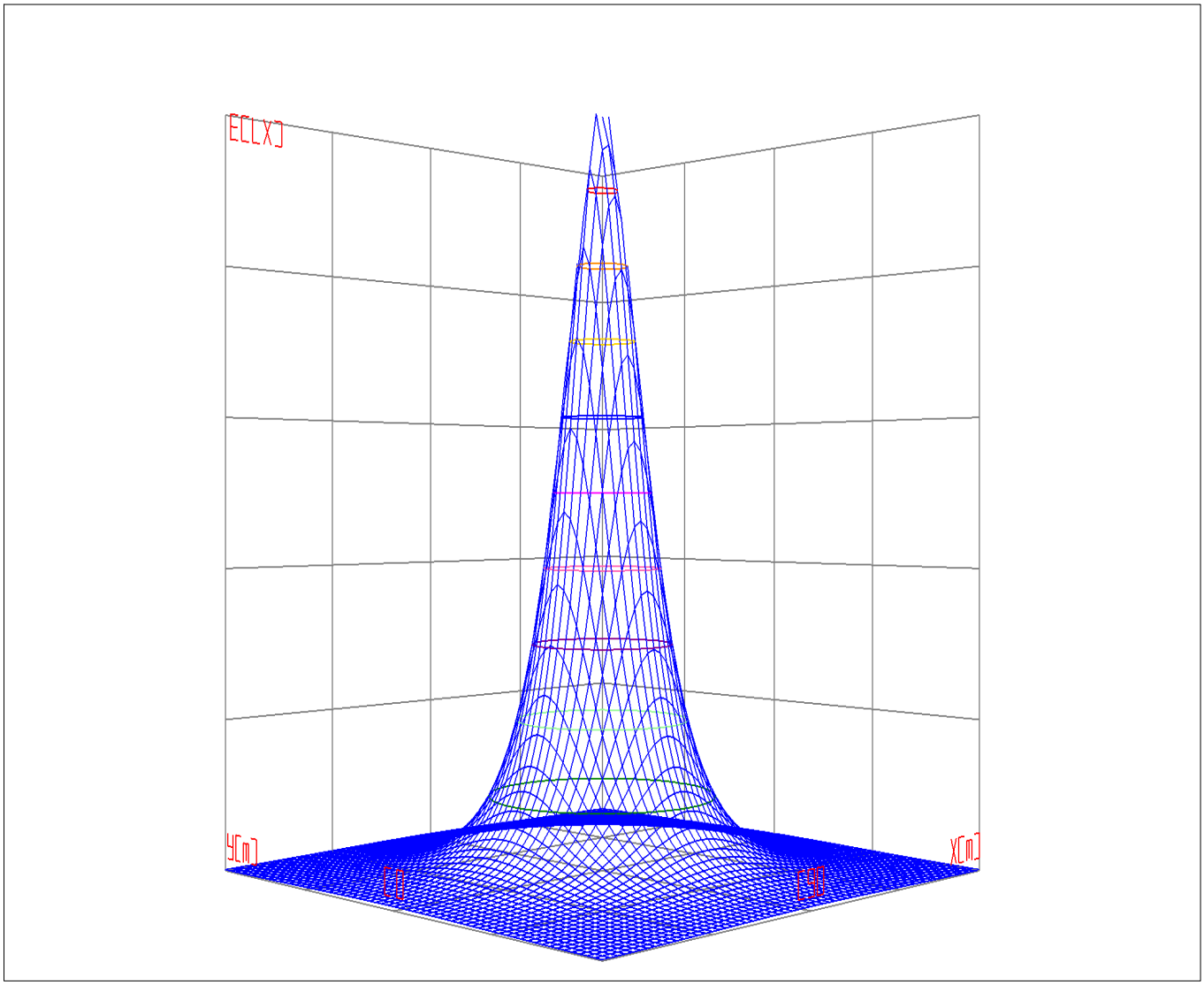


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 138.46
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

3D Plane Illuminance Modal

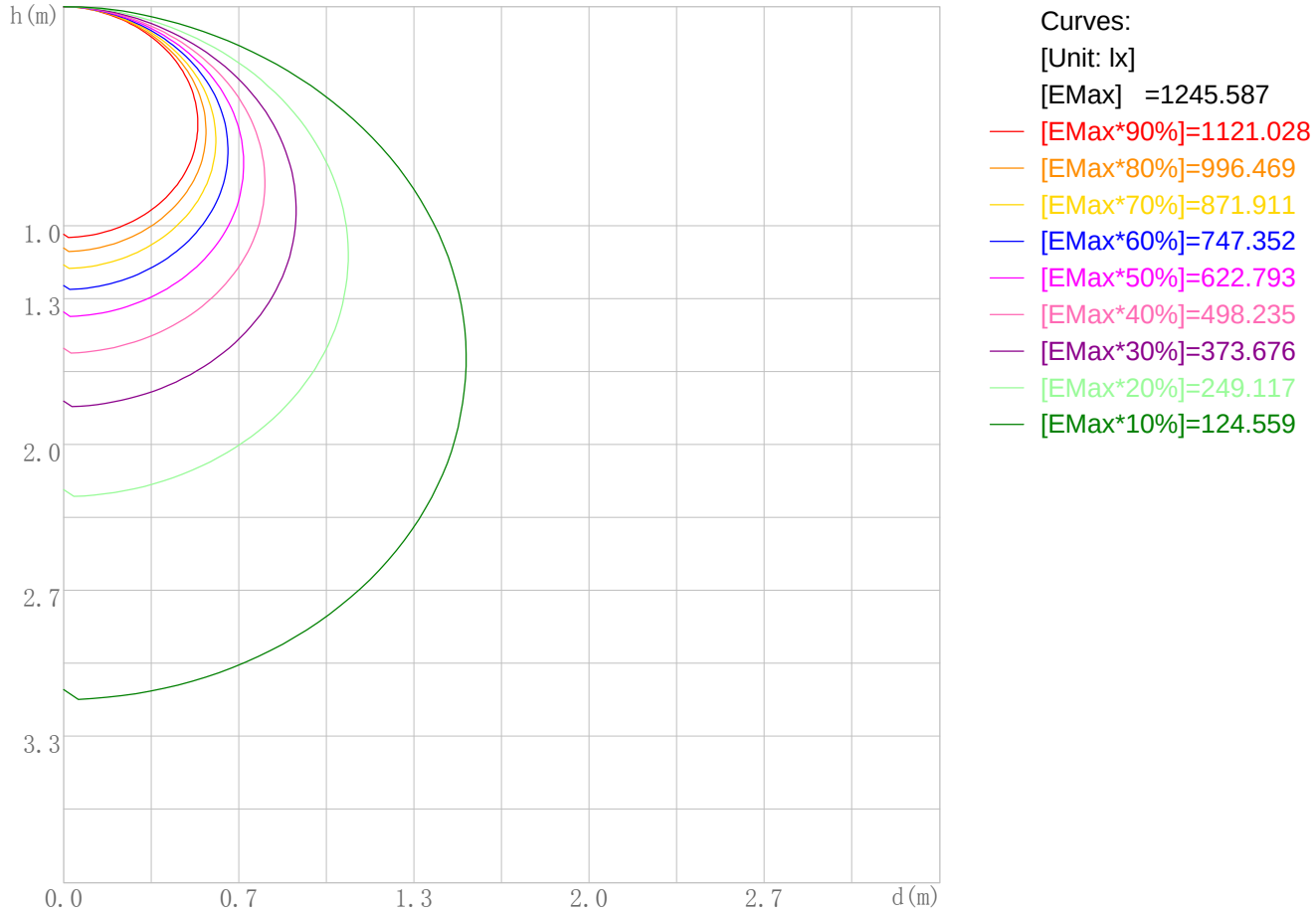


Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

Space ISO Illuminance Curve

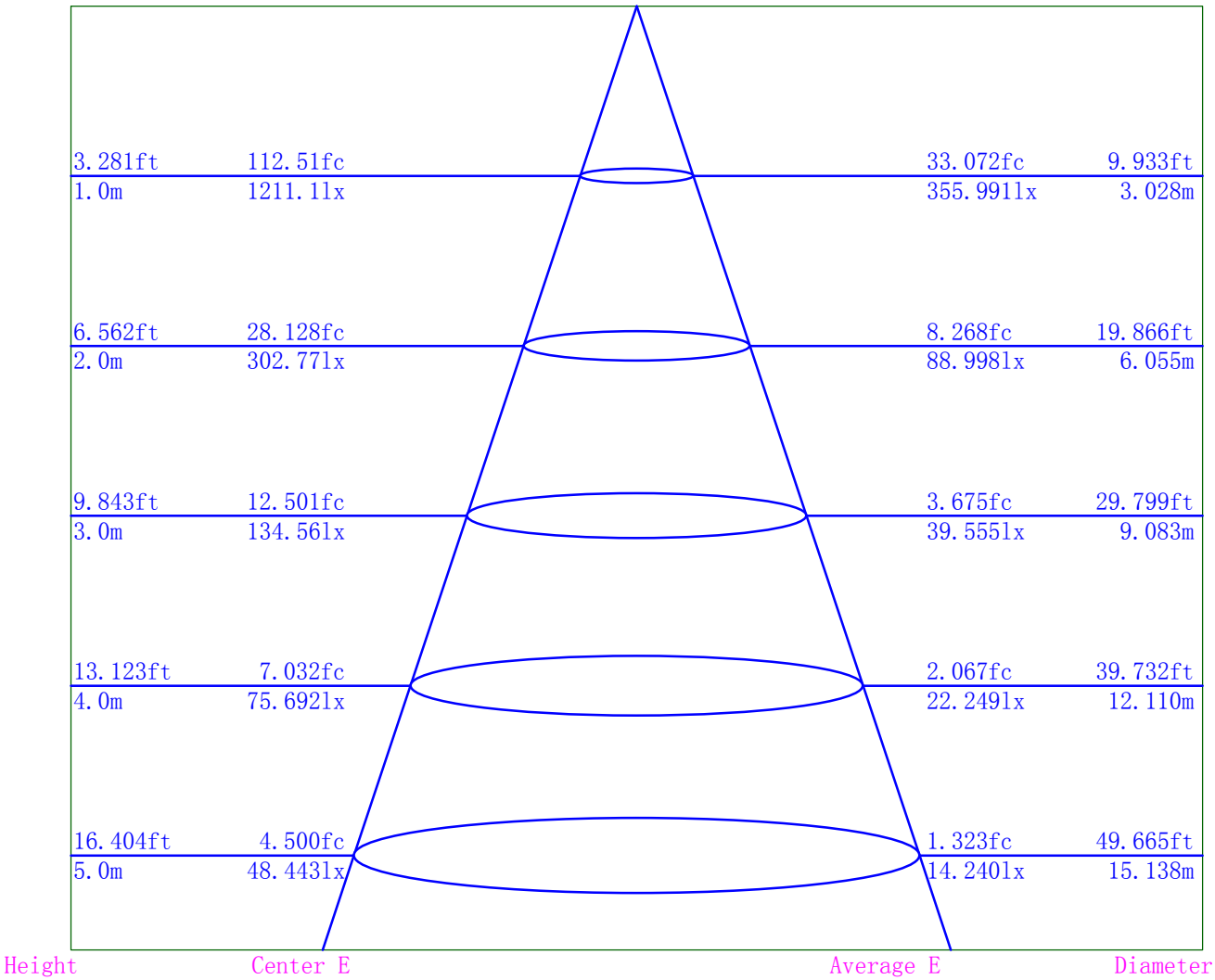


Space Plane Maximum Illuminance and @Angle:1245.59lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:1246.156cd,0eg

Illuminance-Distance Diagram

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

Illuminance-Distance Curve



Beam Angle:113.1

IES Indoor Report
Photometric Filename:HCP-173400-R-4000k.IES

Indoor Luminance Limiting Curves

Lum.Name:	HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name:	26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture:	Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

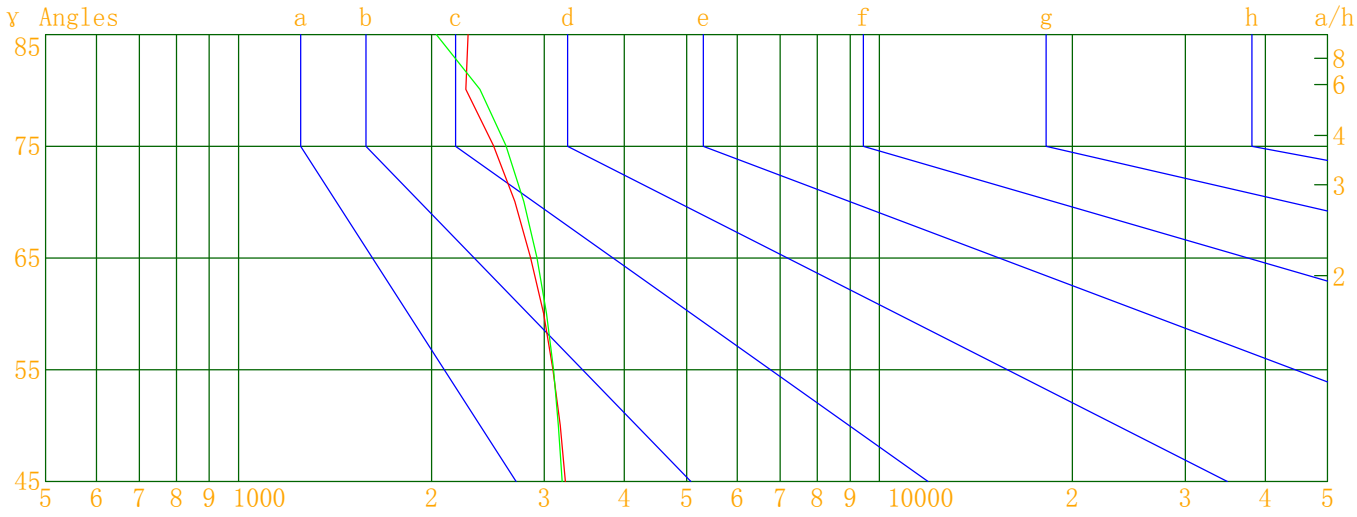
Glare Grade Table

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	3237	3175	3095	2994	2856	2699	2499	2264	2280
C90	3198	3156	3100	3023	2921	2786	2612	2380	2035

Luminance Limiting Curve



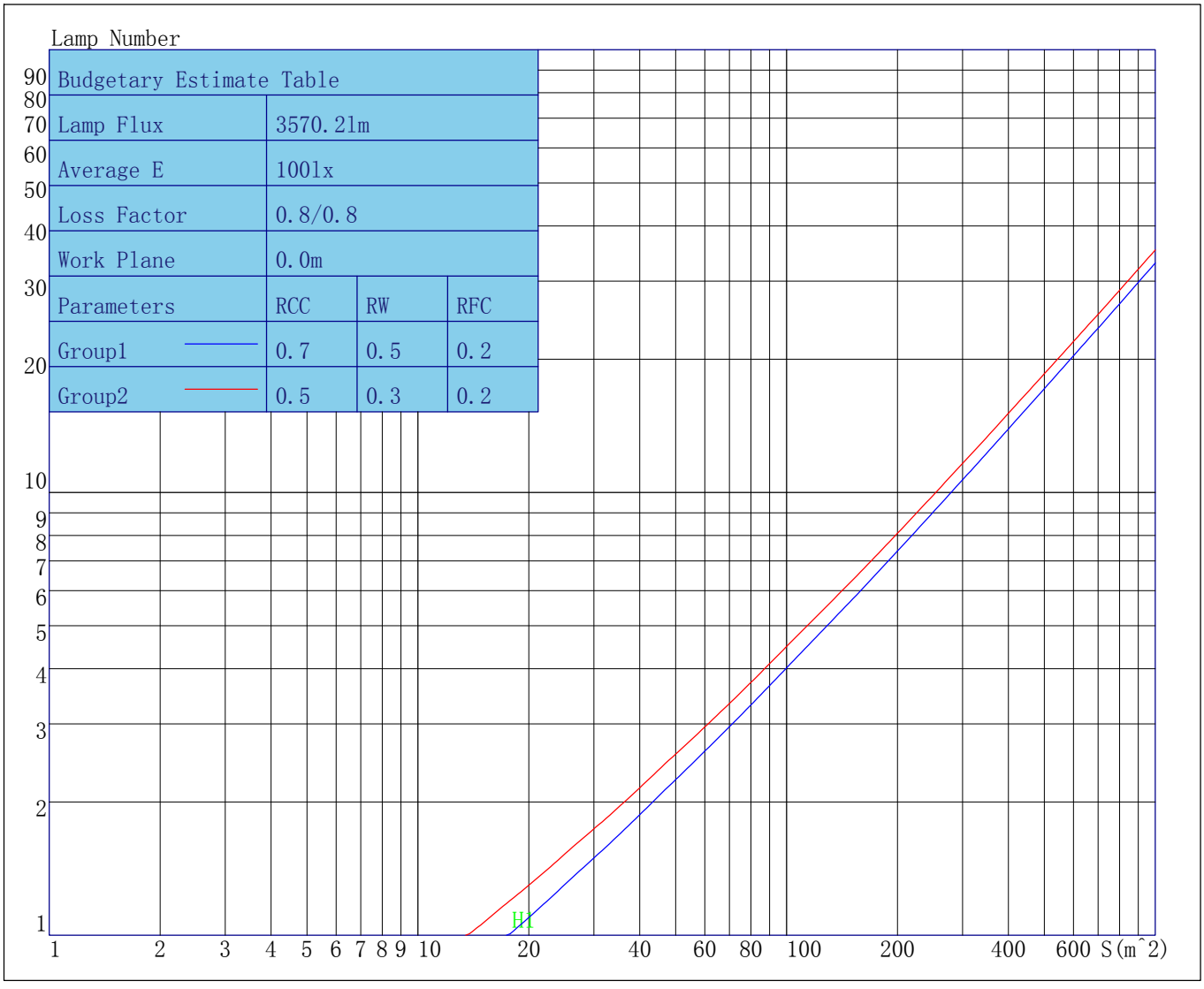
Luminous Size: Length(m)=1.200 Width(m)=0.300 Height(m)=0.000 Area(m^2)=0.360000

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

Indoor Budgetary Estimate Table

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13



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

Indoor Coefficient of Utilization Table

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

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	111	111	111	106	106	106	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	53	65	58	53	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

Unified Glare Rating Table

Lum.Name: HCP-173400-R	Lum.Catelog:	Test ID: 001
Lamp Name: 26~28	Lamp Catelog:	Test Lab: Volnic IES
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/07/13

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	16.2	17.8	16.6	18.2	18.5	16.2	17.8	16.6	18.2	18.5
	Y=3H	17.8	19.3	18.2	19.6	20.0	17.9	19.3	18.3	19.7	20.1
	Y=4H	18.5	19.9	18.9	20.2	20.6	18.5	19.9	18.9	20.3	20.7
	Y=6H	19.0	20.2	19.4	20.6	21.0	19.0	20.3	19.5	20.7	21.1
	Y=8H	19.1	20.4	19.6	20.8	21.2	19.2	20.4	19.7	20.9	21.3
	Y=12H	19.3	20.4	19.7	20.8	21.3	19.3	20.5	19.8	20.9	21.4
X=4H	Y=2H	17.0	18.4	17.4	18.7	19.1	16.9	18.3	17.4	18.7	19.1
	Y=3H	18.8	19.9	19.2	20.4	20.8	18.8	19.9	19.2	20.4	20.8
	Y=4H	19.5	20.6	20.0	21.0	21.5	19.6	20.6	20.0	21.1	21.5
	Y=6H	20.2	21.1	20.6	21.5	22.0	20.2	21.1	20.7	21.6	22.1
	Y=8H	20.4	21.2	20.8	21.7	22.2	20.4	21.3	20.9	21.7	22.2
	Y=12H	20.6	21.3	21.1	21.8	22.3	20.6	21.4	21.1	21.9	22.3
X=8H	Y=4H	19.9	20.8	20.4	21.2	21.7	19.9	20.8	20.4	21.2	21.7
	Y=6H	20.6	21.4	21.1	21.9	22.5	20.6	21.4	21.2	21.9	22.5
	Y=8H	20.9	21.6	21.5	22.1	22.6	20.9	21.6	21.5	22.1	22.6
	Y=12H	21.2	21.8	21.7	22.3	22.9	21.2	21.7	21.7	22.2	22.8
X=12H	Y=4H	19.9	20.7	20.4	21.2	21.7	19.9	20.7	20.4	21.2	21.7
	Y=6H	20.7	21.4	21.3	21.8	22.4	20.7	21.4	21.3	21.8	22.4
	Y=8H	21.1	21.6	21.6	22.1	22.7	21.0	21.6	21.6	22.1	22.7
Variations with the objerver position at spacings											
S=1.0H		0.4/-0.5					0.5/-0.5				
S=1.5H		0.8/-0.9					0.8/-0.9				
S=2.0H		1.0/-1.2					1.0/-1.2				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		2.9					2.9				

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

Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 0.0	1211.08	1211.08	1211.08	1211.08	1211.08	1211.08	1211.08	1211.08	1211.08	1211.08	1211.08	1211.08
Y 1.0	1246.16	1222.97	1205.96	1193.35	1183.66	1176.89	1246.67	1223.08	1206.36	1193.52	1183.95	1177.01
Y 2.0	1245.03	1222.13	1205.01	1192.64	1182.86	1176.21	1246.52	1222.49	1206.00	1192.96	1183.61	1176.44
Y 3.0	1243.64	1220.93	1203.75	1191.64	1181.60	1175.05	1245.81	1221.55	1205.15	1192.02	1182.79	1175.39
Y 4.0	1241.69	1219.36	1201.98	1190.14	1180.04	1173.52	1244.72	1220.26	1203.97	1190.62	1181.65	1173.91
Y 5.0	1239.49	1217.33	1200.11	1188.38	1178.14	1171.64	1242.80	1218.47	1202.34	1188.93	1179.92	1172.15
Y 6.0	1236.94	1214.96	1197.75	1186.07	1175.93	1169.47	1241.00	1216.27	1200.46	1186.86	1178.01	1169.93
Y 7.0	1233.83	1212.14	1194.98	1183.58	1173.30	1166.81	1238.58	1213.58	1198.21	1184.37	1175.68	1167.53
Y 8.0	1230.13	1208.92	1191.60	1180.52	1170.00	1163.77	1235.83	1210.60	1195.55	1181.51	1173.03	1164.63
Y 9.0	1226.24	1205.27	1187.96	1177.15	1166.62	1160.29	1232.53	1207.21	1192.53	1178.29	1170.00	1161.23
Y 10.0	1221.84	1201.21	1184.06	1173.25	1162.61	1156.42	1228.70	1203.23	1189.05	1174.57	1166.29	1157.42
Y 11.0	1217.18	1196.78	1179.68	1169.16	1158.44	1152.22	1224.37	1199.05	1184.87	1170.57	1162.22	1153.32
Y 12.0	1211.81	1191.80	1174.94	1164.73	1153.85	1147.66	1219.92	1194.44	1180.80	1166.31	1158.28	1148.80
Y 13.0	1206.47	1186.66	1169.71	1159.68	1148.86	1142.50	1215.21	1189.43	1176.32	1161.53	1153.62	1143.96
Y 14.0	1200.34	1181.03	1164.13	1154.58	1143.38	1137.14	1209.84	1184.12	1171.12	1156.54	1148.66	1138.80
Y 15.0	1193.84	1174.91	1158.21	1149.04	1137.59	1131.39	1204.09	1178.29	1165.68	1150.88	1143.16	1133.15
Y 16.0	1187.01	1168.55	1151.98	1142.83	1131.52	1125.12	1197.78	1171.92	1159.65	1144.94	1137.45	1127.00
Y 17.0	1179.75	1161.62	1145.50	1136.50	1125.13	1118.68	1190.78	1165.36	1153.08	1138.67	1130.82	1120.51
Y 18.0	1172.24	1154.38	1138.50	1129.77	1118.22	1111.82	1183.89	1158.45	1146.67	1132.08	1124.46	1113.79
Y 19.0	1164.27	1146.83	1130.95	1122.65	1110.93	1104.45	1176.93	1151.03	1140.09	1125.12	1117.93	1106.56
Y 20.0	1155.75	1138.79	1123.19	1115.13	1103.26	1096.82	1169.17	1143.26	1132.85	1117.79	1110.69	1099.12
Y 21.0	1146.88	1130.42	1114.99	1107.35	1095.28	1088.72	1160.88	1134.88	1125.06	1110.01	1103.05	1091.08
Y 22.0	1137.59	1121.64	1106.39	1099.01	1086.92	1080.32	1152.01	1126.35	1116.76	1101.91	1094.88	1082.69
Y 23.0	1128.07	1112.61	1097.50	1090.38	1078.24	1071.52	1142.59	1117.41	1107.73	1093.41	1086.05	1074.11
Y 24.0	1118.11	1103.09	1088.24	1081.46	1069.32	1062.39	1133.37	1108.13	1099.00	1084.56	1077.45	1065.07
Y 25.0	1107.74	1093.23	1078.68	1072.10	1059.96	1052.97	1124.22	1098.53	1090.36	1075.50	1068.86	1055.89
Y 26.0	1096.90	1082.95	1068.49	1062.53	1050.00	1043.09	1114.08	1088.59	1080.90	1066.03	1059.48	1046.11
Y 27.0	1085.86	1072.14	1058.20	1052.40	1039.83	1032.75	1103.45	1078.22	1070.95	1056.03	1049.73	1036.04
Y 28.0	1074.29	1061.04	1047.49	1041.83	1029.44	1022.19	1092.09	1067.19	1060.29	1045.78	1039.47	1025.47
Y 29.0	1062.59	1049.60	1036.58	1031.26	1018.82	1011.31	1080.12	1055.96	1049.04	1035.12	1028.24	1014.70
Y 30.0	1050.31	1037.94	1025.33	1020.33	1007.66	1000.11	1068.77	1044.30	1038.32	1024.35	1017.55	1003.67
Y 31.0	1037.60	1025.91	1013.41	1008.99	995.93	988.44	1057.32	1032.95	1027.81	1013.33	1006.90	992.22
Y 32.0	1024.63	1013.45	1001.26	997.14	984.04	976.45	1045.06	1020.73	1016.16	1001.54	995.59	980.68
Y 33.0	1011.37	1000.65	988.92	984.84	971.92	964.15	1032.27	1008.07	1004.14	989.62	983.66	968.47
Y 34.0	997.62	987.32	975.92	972.39	959.45	951.43	1018.59	995.14	991.02	977.29	970.89	955.87
Y 35.0	983.86	973.87	962.99	959.73	946.72	938.52	1004.43	981.64	977.74	964.48	957.68	942.78
Y 36.0	969.57	960.08	949.67	946.61	933.51	925.07	990.73	968.08	964.95	951.45	945.15	929.62
Y 37.0	954.57	945.91	935.68	933.28	919.88	911.70	977.63	954.41	952.51	938.56	932.77	916.66
Y 38.0	938.88	931.50	920.95	919.46	905.74	897.76	963.12	940.17	938.89	924.97	919.37	903.13
Y 39.0	922.45	916.60	905.48	905.33	890.63	883.32	948.33	925.54	924.72	911.22	905.58	888.89
Y 40.0	906.74	901.30	890.38	890.82	875.62	868.69	932.76	910.65	909.94	896.89	890.97	874.50
Y 41.0	890.98	885.98	875.46	876.15	860.89	853.95	916.15	895.01	894.29	882.21	875.69	859.35
Y 42.0	874.77	870.25	860.14	861.13	845.80	838.67	900.53	879.60	879.48	867.40	861.27	844.38
Y 43.0	858.07	854.25	844.56	845.89	830.44	823.44	885.40	864.50	865.12	852.61	847.09	829.72
Y 44.0	841.12	838.02	828.47	830.33	814.81	807.67	869.15	848.49	849.58	837.35	831.87	814.26
Y 45.0	824.02	821.03	812.20	814.16	798.77	791.44	852.18	832.12	833.74	821.60	816.09	798.39
Y 46.0	806.58	804.05	795.55	797.99	782.51	775.02	834.15	815.10	816.68	805.50	799.61	782.10

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 47.0	789.18	786.90	778.86	781.48	766.17	758.57	816.42	797.41	799.45	788.66	782.55	765.08
Y 48.0	771.37	769.31	761.87	764.73	749.48	741.81	798.90	780.06	782.89	772.30	766.39	748.53
Y 49.0	753.19	751.67	744.66	747.69	732.43	724.80	782.25	763.60	767.17	755.93	750.67	732.48
Y 50.0	734.68	733.72	726.90	730.36	715.05	707.40	764.37	745.78	749.89	738.89	733.71	715.44
Y 51.0	715.85	715.10	708.82	712.65	697.35	689.67	745.87	727.78	732.27	721.66	716.42	698.05
Y 52.0	696.96	696.43	690.72	694.87	679.60	671.78	726.15	709.20	713.62	703.79	697.96	680.21
Y 53.0	677.86	677.85	672.55	676.82	661.65	653.92	706.54	689.92	694.55	685.30	679.35	661.76
Y 54.0	658.65	658.96	654.05	658.44	643.62	635.61	687.41	671.26	676.32	667.01	661.58	643.44
Y 55.0	639.08	639.76	635.26	640.08	625.04	617.21	669.37	653.33	659.14	649.20	644.55	626.26
Y 56.0	619.33	620.39	616.25	621.21	606.36	598.63	650.03	634.21	640.55	631.15	626.20	607.82
Y 57.0	599.18	600.65	596.99	602.02	587.39	579.62	629.83	614.93	621.43	612.68	607.70	589.22
Y 58.0	579.26	580.88	577.65	582.92	568.41	560.47	608.63	595.13	600.95	593.49	588.76	570.34
Y 59.0	559.12	561.05	558.11	563.57	549.36	541.38	588.11	574.50	581.04	573.92	568.19	550.52
Y 60.0	538.85	541.00	538.59	544.17	530.03	522.07	568.07	554.46	561.80	554.58	549.05	531.61
Y 61.0	518.34	520.84	518.69	524.50	510.59	502.93	549.07	535.66	543.19	536.08	531.05	513.42
Y 62.0	497.73	500.47	498.57	504.67	490.88	483.38	528.57	515.85	523.61	516.45	511.67	494.14
Y 63.0	476.88	479.87	478.44	484.51	471.12	463.56	508.04	495.62	503.59	496.76	492.08	474.76
Y 64.0	456.08	459.28	458.20	464.54	451.47	443.78	486.16	475.00	482.80	476.76	471.39	454.93
Y 65.0	434.52	438.65	438.11	444.39	431.74	424.12	464.38	453.73	461.37	456.00	450.62	434.56
Y 66.0	414.94	418.00	417.84	424.30	411.90	404.46	444.66	433.31	441.21	435.96	431.05	414.86
Y 67.0	394.41	397.55	397.59	404.15	391.98	384.68	424.23	413.98	422.36	416.92	412.44	396.36
Y 68.0	373.61	377.08	377.10	383.75	371.96	365.15	403.50	393.62	402.05	397.00	392.61	376.67
Y 69.0	352.91	356.36	356.65	363.29	351.95	345.14	382.67	373.33	381.71	376.82	372.59	357.19
Y 70.0	332.27	335.68	336.38	343.09	332.01	325.48	360.53	352.86	359.97	356.60	351.86	337.45
Y 71.0	312.18	315.55	316.25	322.92	312.28	305.99	339.27	331.70	339.17	335.81	330.93	317.17
Y 72.0	292.20	295.38	296.28	302.95	292.78	286.77	319.34	311.57	319.15	315.72	311.22	297.65
Y 73.0	272.14	275.50	276.21	282.90	273.23	267.76	300.15	292.90	300.39	297.08	292.87	279.70
Y 74.0	252.37	255.58	256.38	263.21	253.71	248.65	280.08	273.27	280.57	277.33	273.44	260.70
Y 75.0	232.82	235.87	236.75	243.34	234.35	229.84	260.26	253.70	260.49	257.74	253.99	241.98
Y 76.0	213.77	216.71	217.35	223.77	215.35	211.23	239.50	234.22	240.00	238.14	233.95	222.99
Y 77.0	195.01	197.77	198.32	204.58	196.72	193.01	219.79	214.25	219.88	218.45	213.99	203.76
Y 78.0	176.91	179.23	179.74	185.70	178.29	175.25	200.77	195.63	200.82	199.30	195.45	185.82
Y 79.0	159.09	161.23	161.18	167.07	160.21	157.84	183.65	178.40	183.29	181.56	178.30	169.20
Y 80.0	141.53	143.49	143.07	148.77	142.47	140.82	165.68	160.65	165.02	163.20	160.26	152.04
Y 81.0	124.97	126.17	125.36	130.78	124.85	123.92	147.63	143.13	146.87	145.24	142.55	135.23
Y 82.0	109.96	109.18	107.97	113.06	107.87	108.39	131.02	125.88	128.50	127.58	124.45	118.70
Y 83.0	96.27	94.63	91.36	96.01	91.68	94.11	114.58	109.83	110.17	109.69	106.46	102.26
Y 84.0	83.37	80.91	75.50	79.68	75.83	81.03	100.39	95.72	93.75	93.21	90.30	88.43
Y 85.0	71.55	68.59	60.36	63.85	61.57	68.78	87.96	83.14	78.93	77.43	75.62	76.51
Y 86.0	60.64	57.39	47.96	48.68	48.92	57.61	75.55	70.84	64.13	61.62	60.77	64.91
Y 87.0	50.69	47.19	37.43	34.50	38.09	47.32	63.96	59.51	51.35	46.56	47.64	54.44
Y 88.0	41.71	38.19	28.40	21.91	28.65	37.94	52.79	49.16	39.66	32.58	36.04	44.72
Y 89.0	33.93	30.29	20.90	12.10	20.82	29.81	42.68	39.46	29.58	20.60	26.75	35.75
Y 90.0	27.53	23.51	14.77	5.95	14.40	22.86	34.24	31.22	21.56	11.94	19.51	28.52
Y 91.0	22.10	18.11	9.88	3.11	9.14	17.28	27.54	24.78	15.59	7.23	13.75	22.70
Y 92.0	17.41	13.46	6.03	2.29	5.32	12.51	21.70	19.06	10.18	5.16	9.06	17.71
Y 93.0	13.36	9.71	4.11	2.32	3.88	8.16	16.61	13.99	5.32	4.32	5.07	13.57

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 94.0	9.75	6.48	3.95	2.43	3.80	4.96	11.70	9.79	2.84	4.18	2.89	9.87
Y 95.0	6.91	4.11	3.86	2.45	3.70	2.95	7.66	6.42	2.69	4.19	2.65	6.91
Y 96.0	5.11	2.82	3.97	2.67	3.82	2.10	4.90	4.66	2.68	4.14	2.80	4.93
Y 97.0	4.04	2.65	3.86	2.74	3.78	2.24	3.24	4.20	2.80	4.19	2.94	3.99
Y 98.0	4.01	2.80	3.88	2.80	3.73	2.33	2.74	4.17	2.86	4.14	2.96	4.06
Y 99.0	4.04	2.87	3.96	2.83	3.76	2.45	2.79	4.08	2.86	4.20	2.97	4.06
Y 100.0	4.08	2.91	3.93	2.98	3.81	2.52	2.98	4.10	3.10	4.25	3.13	4.01
Y 101.0	4.05	3.05	4.02	3.14	3.83	2.67	2.96	4.17	3.13	4.24	3.24	4.08
Y 102.0	4.14	3.22	4.04	3.21	3.92	2.80	3.14	4.30	3.17	4.35	3.36	4.14
Y 103.0	4.36	3.22	4.19	3.28	4.09	2.98	3.25	4.30	3.30	4.41	3.39	4.15
Y 104.0	4.29	3.33	4.27	3.29	4.11	3.05	3.41	4.40	3.35	4.34	3.58	4.18
Y 105.0	4.38	3.44	4.25	3.46	4.14	3.19	3.42	4.45	3.58	4.43	3.70	4.28
Y 106.0	4.47	3.52	4.38	3.68	4.15	3.29	3.54	4.44	3.67	4.54	3.74	4.30
Y 107.0	4.42	3.63	4.47	3.79	4.30	3.19	3.60	4.57	3.90	4.50	3.87	4.44
Y 108.0	4.51	3.78	4.53	3.88	4.36	3.37	3.75	4.63	3.88	4.71	3.86	4.48
Y 109.0	4.56	3.83	4.53	3.91	4.45	3.36	3.75	4.78	3.97	4.63	4.00	4.47
Y 110.0	4.60	3.99	4.68	4.19	4.47	3.56	3.95	4.85	4.10	4.72	4.15	4.48
Y 111.0	4.63	4.09	4.69	4.13	4.58	3.70	4.01	4.78	4.22	4.73	4.25	4.64
Y 112.0	4.84	4.08	4.75	4.31	4.72	3.82	4.20	4.99	4.21	4.90	4.30	4.61
Y 113.0	4.87	4.20	4.77	4.44	4.82	3.87	4.29	5.04	4.42	4.94	4.43	4.64
Y 114.0	4.98	4.30	4.82	4.54	4.77	4.09	4.36	5.02	4.47	5.11	4.61	4.73
Y 115.0	5.10	4.44	4.92	4.62	4.90	4.11	4.42	5.19	4.55	5.21	4.57	4.77
Y 116.0	5.19	4.44	5.13	4.77	4.91	4.19	4.57	5.17	4.76	5.32	4.68	4.78
Y 117.0	5.32	4.71	5.18	4.86	5.01	4.27	4.65	5.32	4.80	5.43	4.84	4.97
Y 118.0	5.32	4.68	5.28	5.00	5.14	4.38	4.77	5.34	4.87	5.53	4.83	5.11
Y 119.0	5.43	4.94	5.32	4.96	5.12	4.52	4.86	5.49	4.86	5.64	4.95	5.13
Y 120.0	5.60	4.93	5.49	5.11	5.28	4.65	4.91	5.49	4.94	5.74	5.03	5.31
Y 121.0	5.59	5.10	5.58	5.17	5.29	4.66	5.13	5.62	5.03	5.83	5.11	5.34
Y 122.0	5.70	5.11	5.69	5.28	5.38	4.83	5.09	5.78	5.16	5.92	5.20	5.44
Y 123.0	5.76	5.24	5.66	5.27	5.47	4.94	5.21	5.79	5.35	5.98	5.33	5.49
Y 124.0	5.87	5.33	5.79	5.38	5.58	4.97	5.43	5.89	5.38	6.13	5.55	5.61
Y 125.0	6.00	5.35	5.86	5.52	5.62	5.05	5.46	5.94	5.49	6.27	5.65	5.58
Y 126.0	6.03	5.55	6.03	5.63	5.69	5.16	5.70	5.96	5.67	6.18	5.75	5.72
Y 127.0	6.24	5.51	6.13	5.73	5.74	5.34	5.72	5.97	5.69	6.38	5.92	5.64
Y 128.0	6.26	5.69	6.30	5.79	5.90	5.48	5.75	6.11	5.74	6.41	5.85	5.79
Y 129.0	6.40	5.81	6.37	5.94	6.05	5.48	6.03	6.23	5.98	6.54	6.04	5.92
Y 130.0	6.38	5.91	6.48	5.97	6.07	5.56	5.99	6.35	6.01	6.64	6.16	6.10
Y 131.0	6.50	6.09	6.46	6.20	6.14	5.63	6.06	6.42	6.04	6.71	6.31	6.16
Y 132.0	6.54	6.05	6.59	6.24	6.28	5.73	6.21	6.50	6.16	6.88	6.36	6.24
Y 133.0	6.63	6.17	6.64	6.35	6.37	5.80	6.34	6.54	6.24	6.95	6.39	6.35
Y 134.0	6.68	6.31	6.75	6.38	6.41	5.85	6.36	6.69	6.37	7.01	6.56	6.48
Y 135.0	6.74	6.39	6.88	6.41	6.46	5.93	6.54	6.74	6.48	7.17	6.61	6.45
Y 136.0	6.76	6.44	6.95	6.51	6.48	5.97	6.56	6.86	6.44	7.34	6.72	6.49
Y 137.0	6.83	6.45	7.04	6.58	6.63	6.18	6.64	6.89	6.57	7.31	6.72	6.63
Y 138.0	6.99	6.82	7.05	6.76	6.69	6.26	6.66	6.90	6.68	7.24	6.90	6.69
Y 139.0	7.02	6.81	7.22	6.77	6.80	6.26	6.78	7.05	6.72	7.45	6.82	6.78
Y 140.0	7.13	6.94	7.23	6.92	6.94	6.47	6.93	7.18	6.85	7.55	7.02	6.80

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 141.0	7.18	7.04	7.34	7.02	7.02	6.51	6.92	7.32	6.84	7.56	7.17	6.99
γ 142.0	7.15	7.23	7.45	7.00	7.11	6.49	7.08	7.29	6.94	7.55	7.27	7.08
γ 143.0	7.36	7.23	7.63	7.15	7.06	6.67	7.08	7.40	6.95	7.70	7.41	7.20
γ 144.0	7.45	7.31	7.56	7.14	7.19	6.74	7.23	7.46	6.98	7.75	7.38	7.17
γ 145.0	7.61	7.41	7.63	7.25	7.17	6.84	7.36	7.53	7.14	7.77	7.44	7.28
γ 146.0	7.71	7.50	7.79	7.34	7.28	6.93	7.42	7.63	7.25	7.86	7.56	7.31
γ 147.0	7.79	7.47	7.78	7.41	7.37	6.98	7.60	7.74	7.37	7.89	7.65	7.50
γ 148.0	7.84	7.61	7.91	7.50	7.43	7.06	7.74	7.82	7.47	7.94	7.85	7.61
γ 149.0	7.93	7.63	7.96	7.47	7.54	7.15	7.67	8.03	7.56	8.16	7.78	7.63
γ 150.0	8.10	7.69	8.14	7.60	7.56	7.37	7.84	8.03	7.59	8.18	7.87	7.68
γ 151.0	8.17	7.83	8.11	7.76	7.67	7.46	7.93	8.02	7.59	8.28	7.88	7.85
γ 152.0	8.11	7.91	8.16	7.71	7.61	7.45	7.89	8.15	7.68	8.33	8.10	7.91
γ 153.0	8.17	8.02	8.26	7.81	7.74	7.49	8.07	8.09	7.80	8.34	8.02	7.98
γ 154.0	8.22	8.25	8.19	7.80	7.96	7.62	8.27	8.16	7.90	8.46	8.13	8.08
γ 155.0	8.32	8.30	8.23	7.88	7.98	7.61	8.34	8.21	7.98	8.42	8.14	8.10
γ 156.0	8.35	8.36	8.36	7.95	8.02	7.74	8.38	8.24	7.99	8.42	8.28	8.16
γ 157.0	8.50	8.51	8.35	8.01	7.98	7.81	8.42	8.32	8.11	8.40	8.40	8.29
γ 158.0	8.57	8.61	8.40	8.02	8.04	7.81	8.52	8.32	8.22	8.46	8.40	8.32
γ 159.0	8.68	8.67	8.58	8.04	8.07	7.87	8.49	8.57	8.12	8.47	8.38	8.47
γ 160.0	8.73	8.74	8.58	8.21	8.17	8.04	8.64	8.60	8.34	8.56	8.47	8.44
γ 161.0	8.75	8.77	8.61	8.18	8.18	8.11	8.67	8.60	8.42	8.58	8.46	8.48
γ 162.0	8.89	8.80	8.69	8.18	8.23	8.12	8.75	8.70	8.42	8.58	8.57	8.50
γ 163.0	8.94	8.89	8.73	8.35	8.36	8.12	8.81	8.67	8.49	8.50	8.50	8.47
γ 164.0	9.07	8.85	8.76	8.30	8.36	8.23	8.94	8.74	8.58	8.67	8.57	8.54
γ 165.0	9.06	8.92	8.69	8.41	8.43	8.35	9.06	8.84	8.66	8.65	8.56	8.63
γ 166.0	9.16	8.93	8.74	8.61	8.51	8.41	9.14	8.91	8.77	8.63	8.69	8.74
γ 167.0	9.26	8.94	8.79	8.60	8.55	8.38	9.13	8.93	8.76	8.72	8.67	8.73
γ 168.0	9.22	9.02	8.76	8.53	8.62	8.52	9.23	9.10	8.79	8.94	8.63	8.79
γ 169.0	9.31	9.01	8.94	8.62	8.70	8.56	9.36	9.00	8.95	8.93	8.69	8.79
γ 170.0	9.34	9.12	8.90	8.68	8.59	8.65	9.32	9.09	8.87	8.96	8.71	8.82
γ 171.0	9.46	9.11	8.93	8.82	8.62	8.60	9.42	9.10	8.88	9.00	8.74	8.92
γ 172.0	9.39	9.11	8.96	8.80	8.69	8.69	9.37	9.16	8.95	9.07	8.78	8.91
γ 173.0	9.39	9.20	8.93	8.90	8.75	8.69	9.37	9.18	8.98	9.06	8.79	8.95
γ 174.0	9.47	9.30	8.88	8.88	8.92	8.74	9.47	9.13	8.95	9.14	8.78	8.97
γ 175.0	9.63	9.16	8.98	8.93	8.75	8.72	9.49	9.22	8.90	9.10	8.82	8.94
γ 176.0	9.51	9.18	9.02	9.01	8.80	8.72	9.50	9.21	9.10	9.08	8.82	8.92
γ 177.0	9.53	9.24	9.05	8.99	8.83	8.65	9.44	9.18	9.08	9.13	8.91	8.88
γ 178.0	9.48	9.27	8.93	8.98	8.78	8.67	9.46	9.24	9.01	9.05	8.87	8.89
γ 179.0	9.64	9.19	8.91	8.97	8.82	8.68	9.50	9.35	8.97	9.13	8.85	8.83
γ 180.0	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15