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Indoor Luminaire Photometric Data

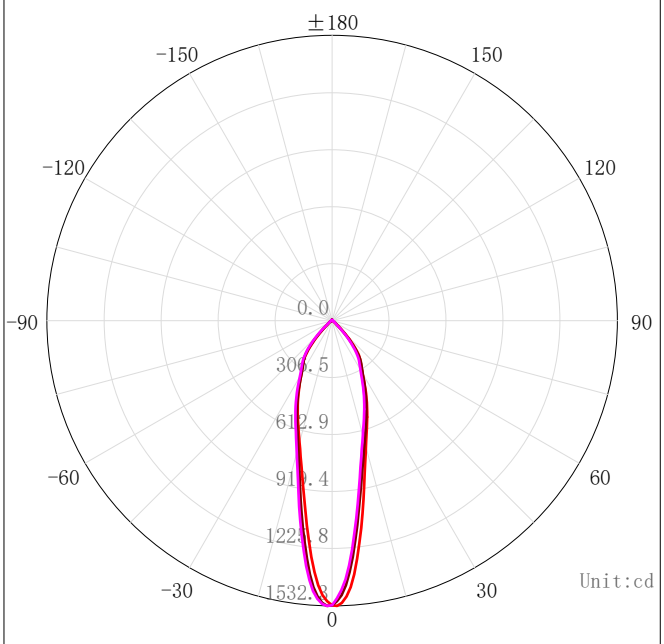
Description Information

Luminary Name: HCP-813024-2700K RA90 28D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2020/09/27
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

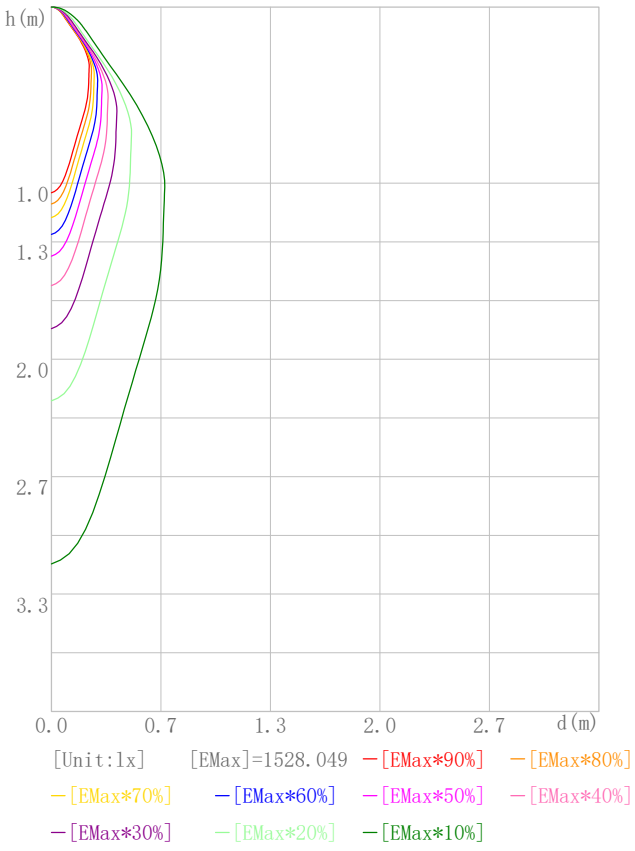
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 782.950	Luminary Flux(lm): 782.952	Field Angle(10%Imax): 83.6(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 774.907lm 98.97%
Rated Voltage(V):	Luminary EER(lm/W): 62.686	Up Lumens&Percent: 8.046lm 1.03%
Tested Power(W): 12.490	Max.Candela(cd): 1532.267	S/MH: C0_a180=0.426 C90_270=0.422
Lamps' Inside: 1	Max Cand@Ang.(°): C=180.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):240.2,0.055,0.946	Beam Angle(50%Imax): 26.1(°)	ErP Φuse(90°): 708.464lm
Lamp Size(W*L*H):0.050m*0.000m*0.080m	Left=-12.6° ,Right=13.5°	IRF(%): 433.947

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C180.0_360.0:	26.1	83.6
C0.0_180.0 :	26.1	83.6
C90.0_270.0 :	25.9	83.3

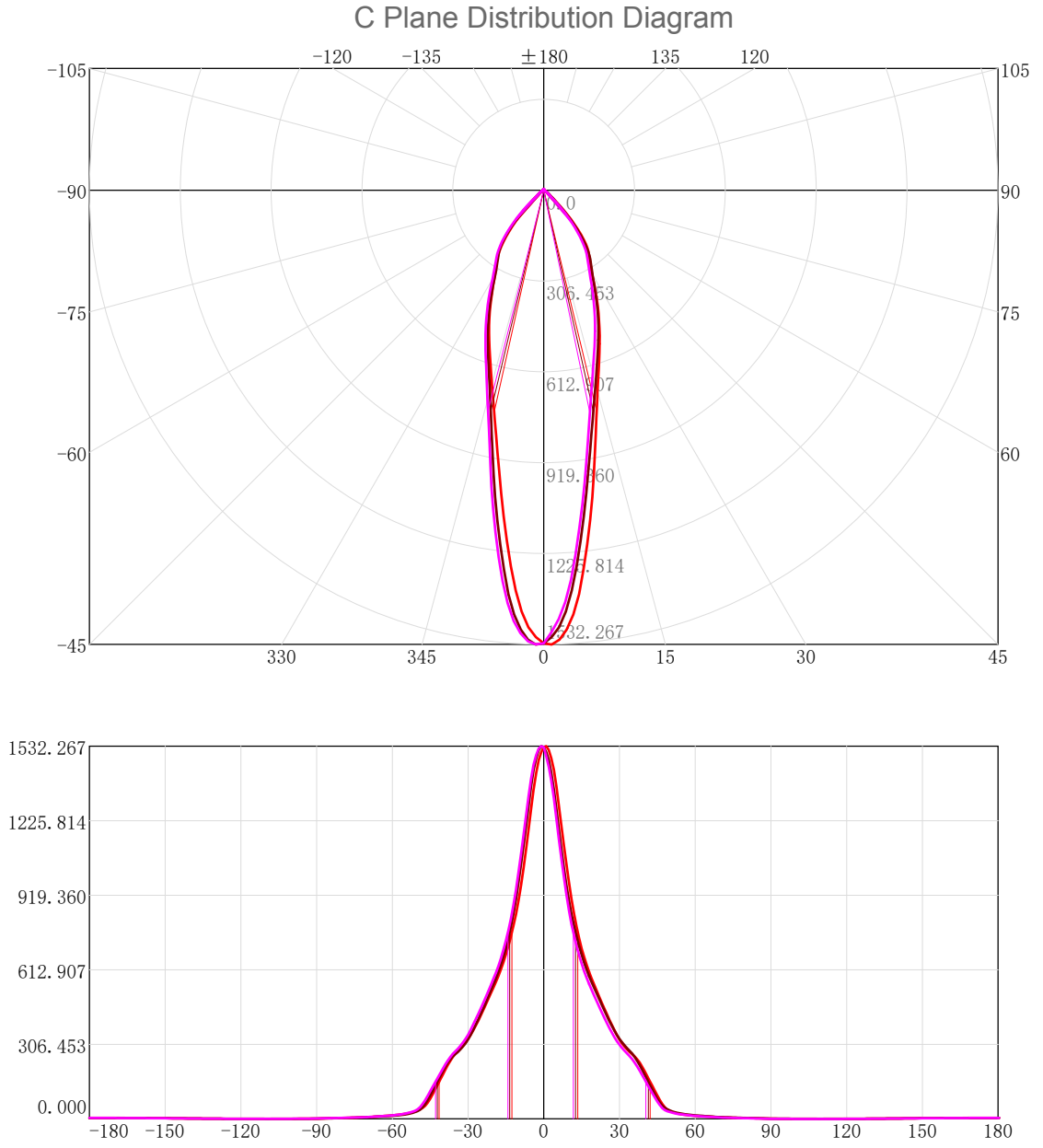
C0 Space ISO Illuminance Curve



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2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27



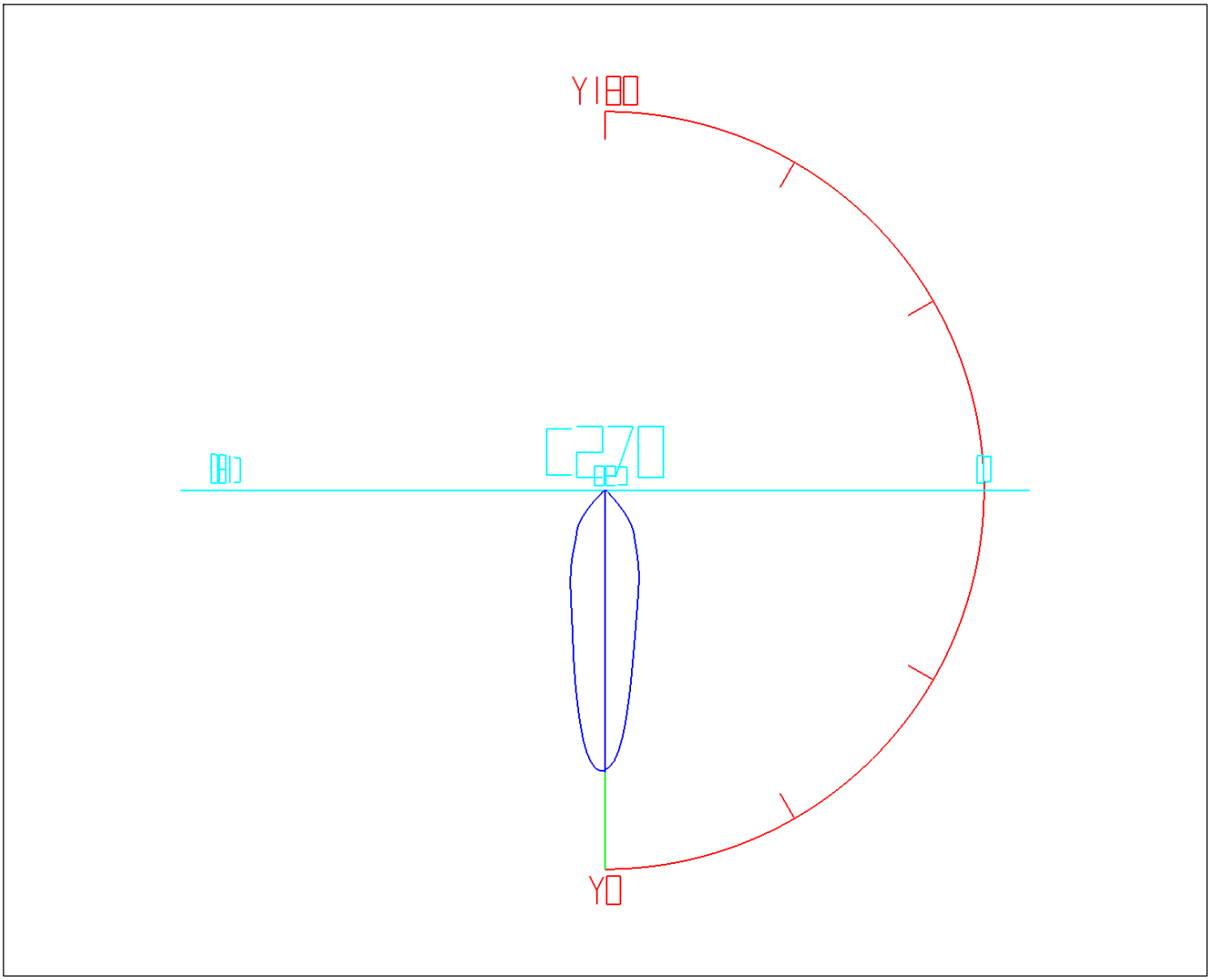
C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C180.0_360.0:	26.1	83.6	
C0.0_180.0 :	26.1	83.6	
C90.0_270.0 :	25.9	83.3	

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3D Light Intensity Distribution Modal

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27

3D Light Intensity Distribution Modal



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

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Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	1.46	1.46	0.19	0.19	47.0-48.0	4.32	731.30	0.55	93.40
1.0-2.0	4.31	5.77	0.55	0.74	48.0-49.0	3.58	734.88	0.46	93.86
2.0-3.0	7.03	12.80	0.90	1.63	49.0-50.0	3.04	737.93	0.39	94.25
3.0-4.0	9.50	22.30	1.21	2.85	50.0-51.0	2.67	740.59	0.34	94.59
4.0-5.0	11.65	33.96	1.49	4.34	51.0-52.0	2.39	742.98	0.30	94.89
5.0-6.0	13.43	47.38	1.72	6.05	52.0-53.0	2.16	745.14	0.28	95.17
6.0-7.0	14.86	62.25	1.90	7.95	53.0-54.0	1.99	747.13	0.25	95.42
7.0-8.0	16.00	78.25	2.04	9.99	54.0-55.0	1.85	748.98	0.24	95.66
8.0-9.0	16.89	95.14	2.16	12.15	55.0-56.0	1.72	750.70	0.22	95.88
9.0-10.0	17.56	112.70	2.24	14.39	56.0-57.0	1.61	752.31	0.21	96.09
10.0-11.0	18.07	130.77	2.31	16.70	57.0-58.0	1.51	753.82	0.19	96.28
11.0-12.0	18.47	149.24	2.36	19.06	58.0-59.0	1.42	755.24	0.18	96.46
12.0-13.0	18.81	168.05	2.40	21.46	59.0-60.0	1.34	756.58	0.17	96.63
13.0-14.0	19.11	187.16	2.44	23.91	60.0-61.0	1.27	757.86	0.16	96.79
14.0-15.0	19.39	206.56	2.48	26.38	61.0-62.0	1.21	759.06	0.15	96.95
15.0-16.0	19.64	226.19	2.51	28.89	62.0-63.0	1.15	760.21	0.15	97.10
16.0-17.0	19.85	246.04	2.54	31.43	63.0-64.0	1.09	761.30	0.14	97.23
17.0-18.0	20.04	266.08	2.56	33.98	64.0-65.0	1.03	762.32	0.13	97.37
18.0-19.0	20.20	286.28	2.58	36.56	65.0-66.0	0.97	763.29	0.12	97.49
19.0-20.0	20.31	306.59	2.59	39.16	66.0-67.0	0.91	764.20	0.12	97.60
20.0-21.0	20.36	326.96	2.60	41.76	67.0-68.0	0.85	765.04	0.11	97.71
21.0-22.0	20.35	347.31	2.60	44.36	68.0-69.0	0.79	765.83	0.10	97.81
22.0-23.0	20.26	367.56	2.59	46.95	69.0-70.0	0.74	766.57	0.09	97.91
23.0-24.0	20.10	387.66	2.57	49.51	70.0-71.0	0.69	767.26	0.09	98.00
24.0-25.0	19.88	407.54	2.54	52.05	71.0-72.0	0.66	767.92	0.08	98.08
25.0-26.0	19.59	427.14	2.50	54.55	72.0-73.0	0.63	768.55	0.08	98.16
26.0-27.0	19.24	446.38	2.46	57.01	73.0-74.0	0.60	769.15	0.08	98.24
27.0-28.0	18.86	465.24	2.41	59.42	74.0-75.0	0.57	769.71	0.07	98.31
28.0-29.0	18.46	483.71	2.36	61.78	75.0-76.0	0.54	770.25	0.07	98.38
29.0-30.0	18.09	501.79	2.31	64.09	76.0-77.0	0.51	770.76	0.06	98.44
30.0-31.0	17.76	519.55	2.27	66.36	77.0-78.0	0.48	771.24	0.06	98.50
31.0-32.0	17.50	537.05	2.23	68.59	78.0-79.0	0.45	771.69	0.06	98.56
32.0-33.0	17.26	554.31	2.20	70.80	79.0-80.0	0.42	772.11	0.05	98.62
33.0-34.0	17.04	571.35	2.18	72.97	80.0-81.0	0.40	772.51	0.05	98.67
34.0-35.0	16.80	588.14	2.15	75.12	81.0-82.0	0.37	772.88	0.05	98.71
35.0-36.0	16.48	604.62	2.10	77.22	82.0-83.0	0.35	773.23	0.04	98.76
36.0-37.0	16.02	620.64	2.05	79.27	83.0-84.0	0.32	773.55	0.04	98.80
37.0-38.0	15.41	636.05	1.97	81.24	84.0-85.0	0.30	773.85	0.04	98.84
38.0-39.0	14.61	650.66	1.87	83.10	85.0-86.0	0.27	774.12	0.04	98.87
39.0-40.0	13.66	664.33	1.75	84.85	86.0-87.0	0.25	774.37	0.03	98.90
40.0-41.0	12.60	676.92	1.61	86.46	87.0-88.0	0.21	774.58	0.03	98.93
41.0-42.0	11.45	688.37	1.46	87.92	88.0-89.0	0.18	774.76	0.02	98.95
42.0-43.0	10.23	698.60	1.31	89.23	89.0-90.0	0.15	774.91	0.02	98.97
43.0-44.0	8.97	707.58	1.15	90.37	90.0-91.0	0.13	775.04	0.02	98.99
44.0-45.0	7.69	715.27	0.98	91.36	91.0-92.0	0.12	775.16	0.02	99.01
45.0-46.0	6.44	721.70	0.82	92.18	92.0-93.0	0.11	775.27	0.01	99.02
46.0-47.0	5.28	726.99	0.67	92.85	93.0-94.0	0.10	775.38	0.01	99.03

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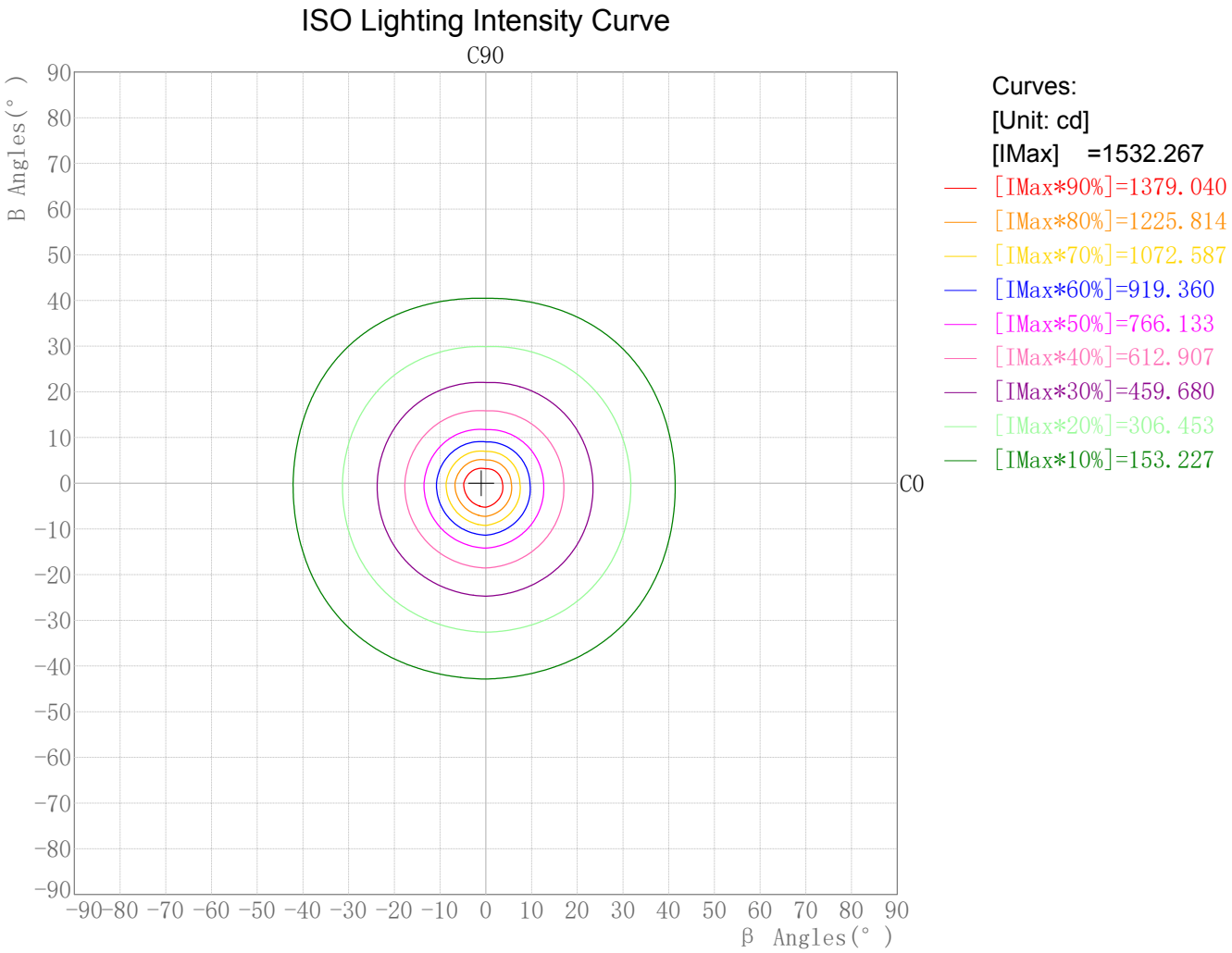
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.10	775.47	0.01	99.05
95.0-96.0	0.09	775.56	0.01	99.06
96.0-97.0	0.08	775.65	0.01	99.07
97.0-98.0	0.08	775.72	0.01	99.08
98.0-99.0	0.07	775.79	0.01	99.09
99.0-100.0	0.07	775.86	0.01	99.09
100.0-101.0	0.06	775.92	0.01	99.10
101.0-102.0	0.06	775.98	0.01	99.11
102.0-103.0	0.05	776.03	0.01	99.12
103.0-104.0	0.05	776.08	0.01	99.12
104.0-105.0	0.05	776.12	0.01	99.13
105.0-106.0	0.04	776.17	0.01	99.13
106.0-107.0	0.04	776.21	0.01	99.14
107.0-108.0	0.04	776.25	0.01	99.14
108.0-109.0	0.04	776.29	0.01	99.15
109.0-110.0	0.04	776.33	0.00	99.15
110.0-111.0	0.04	776.37	0.00	99.16
111.0-112.0	0.04	776.41	0.00	99.16
112.0-113.0	0.04	776.45	0.01	99.17
113.0-114.0	0.04	776.49	0.01	99.17
114.0-115.0	0.04	776.53	0.01	99.18
115.0-116.0	0.04	776.57	0.01	99.19
116.0-117.0	0.04	776.61	0.01	99.19
117.0-118.0	0.04	776.66	0.01	99.20
118.0-119.0	0.05	776.70	0.01	99.20
119.0-120.0	0.05	776.75	0.01	99.21
120.0-121.0	0.05	776.81	0.01	99.22
121.0-122.0	0.05	776.86	0.01	99.22
122.0-123.0	0.06	776.92	0.01	99.23
123.0-124.0	0.06	776.98	0.01	99.24
124.0-125.0	0.07	777.05	0.01	99.25
125.0-126.0	0.07	777.11	0.01	99.25
126.0-127.0	0.07	777.19	0.01	99.26
127.0-128.0	0.08	777.27	0.01	99.27
128.0-129.0	0.08	777.35	0.01	99.28
129.0-130.0	0.09	777.43	0.01	99.30
130.0-131.0	0.09	777.52	0.01	99.31
131.0-132.0	0.09	777.62	0.01	99.32
132.0-133.0	0.10	777.72	0.01	99.33
133.0-134.0	0.10	777.82	0.01	99.34
134.0-135.0	0.11	777.93	0.01	99.36
135.0-136.0	0.11	778.04	0.01	99.37
136.0-137.0	0.12	778.16	0.02	99.39
137.0-138.0	0.12	778.28	0.02	99.40
138.0-139.0	0.13	778.41	0.02	99.42
139.0-140.0	0.13	778.54	0.02	99.44
140.0-141.0	0.14	778.68	0.02	99.45
141.0-142.0	0.14	778.82	0.02	99.47
142.0-143.0	0.14	778.96	0.02	99.49
143.0-144.0	0.15	779.11	0.02	99.51
144.0-145.0	0.15	779.26	0.02	99.53
145.0-146.0	0.15	779.41	0.02	99.55
146.0-147.0	0.15	779.56	0.02	99.57
147.0-148.0	0.15	779.72	0.02	99.59
148.0-149.0	0.15	779.87	0.02	99.61
149.0-150.0	0.15	780.03	0.02	99.63
150.0-151.0	0.15	780.18	0.02	99.65
151.0-152.0	0.15	780.34	0.02	99.67
152.0-153.0	0.15	780.49	0.02	99.69
153.0-154.0	0.15	780.64	0.02	99.70
154.0-155.0	0.15	780.79	0.02	99.72
155.0-156.0	0.15	780.94	0.02	99.74
156.0-157.0	0.14	781.08	0.02	99.76
157.0-158.0	0.14	781.22	0.02	99.78
158.0-159.0	0.14	781.36	0.02	99.80
159.0-160.0	0.13	781.49	0.02	99.81
160.0-161.0	0.13	781.62	0.02	99.83
161.0-162.0	0.13	781.75	0.02	99.85
162.0-163.0	0.12	781.87	0.02	99.86
163.0-164.0	0.12	781.98	0.01	99.88
164.0-165.0	0.11	782.09	0.01	99.89
165.0-166.0	0.10	782.20	0.01	99.90
166.0-167.0	0.10	782.30	0.01	99.92
167.0-168.0	0.09	782.39	0.01	99.93
168.0-169.0	0.09	782.48	0.01	99.94
169.0-170.0	0.08	782.56	0.01	99.95
170.0-171.0	0.07	782.63	0.01	99.96
171.0-172.0	0.07	782.70	0.01	99.97
172.0-173.0	0.06	782.76	0.01	99.98
173.0-174.0	0.05	782.81	0.01	99.98
174.0-175.0	0.04	782.85	0.01	99.99
175.0-176.0	0.04	782.89	0.00	99.99
176.0-177.0	0.03	782.92	0.00	100.00
177.0-178.0	0.02	782.94	0.00	100.00
178.0-179.0	0.01	782.95	0.00	100.00
179.0-180.0	0.00	782.95	0.00	100.00

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Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27



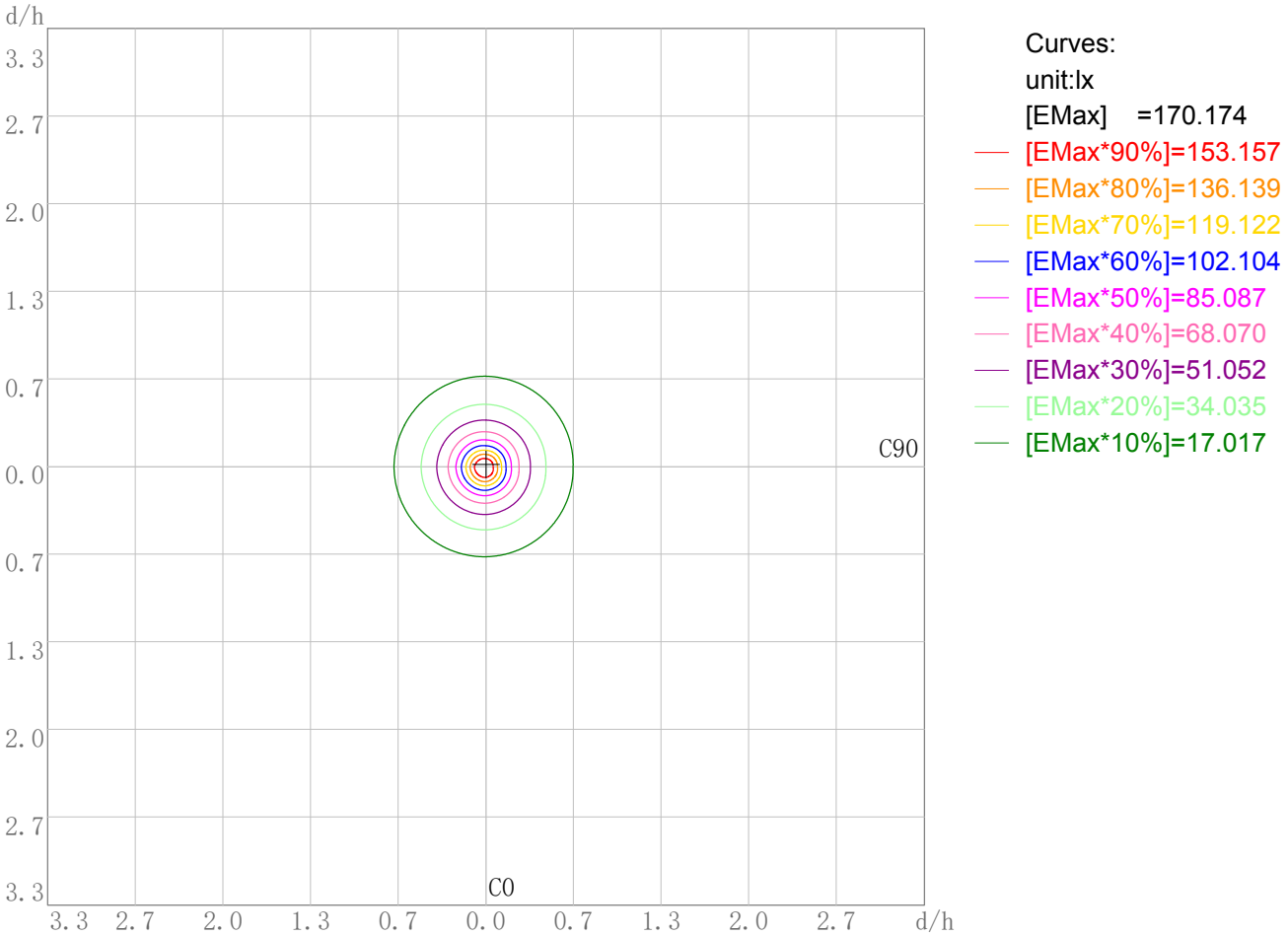
Maximum Light Intensity(cd): 1532.27
Maximum Cand.@Angle: H=-1.0°,V=0.0°

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Plane ISO-Illuminance Diagram

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27

Plane ISO-Illuminance Curve



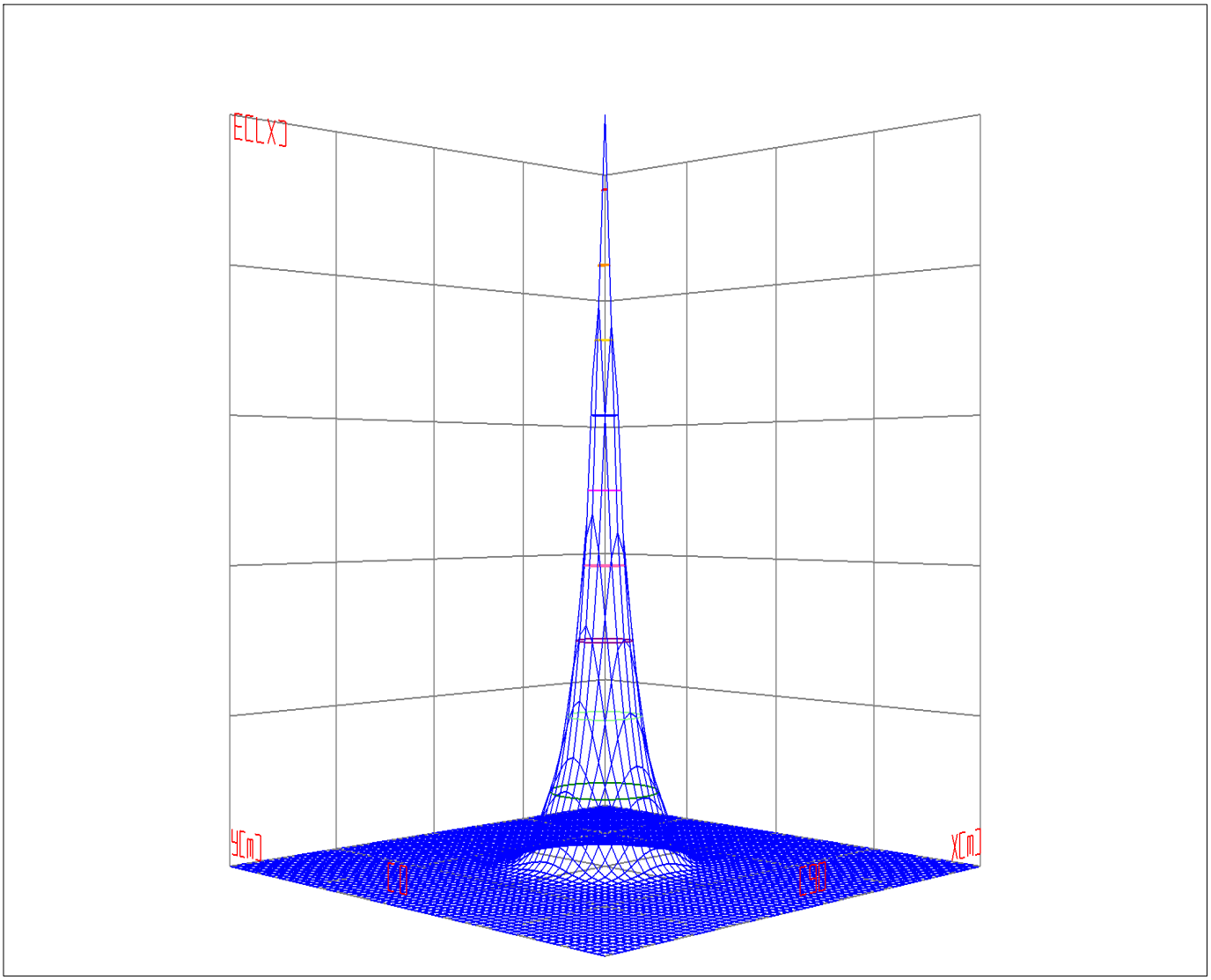
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 170.17
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

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3D Plane ISO Illuminance Diagram

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27

3D Plane Illuminance Modal



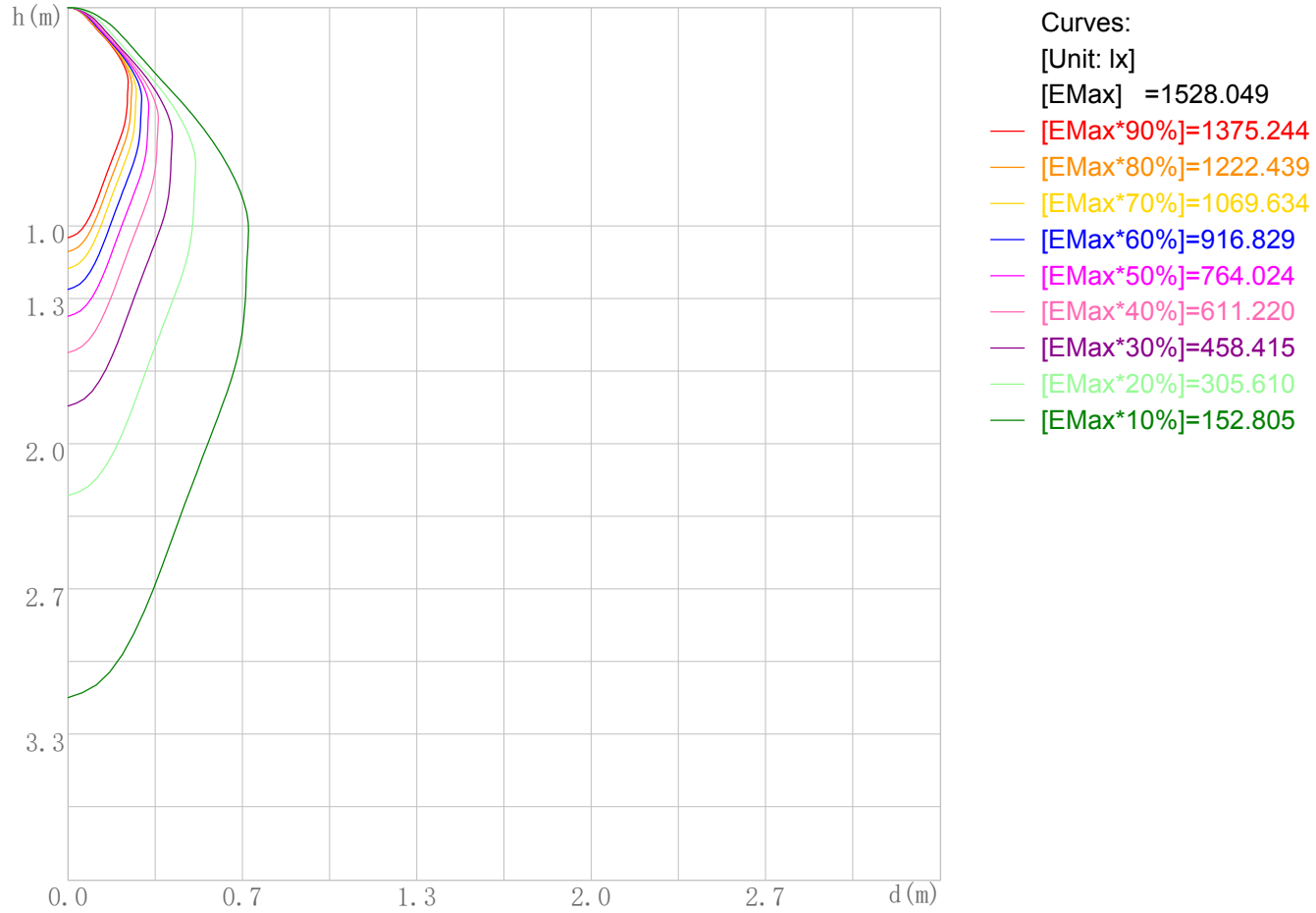
Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

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Space ISO Illuminance Diagram

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27

Space ISO Illuminance Curve

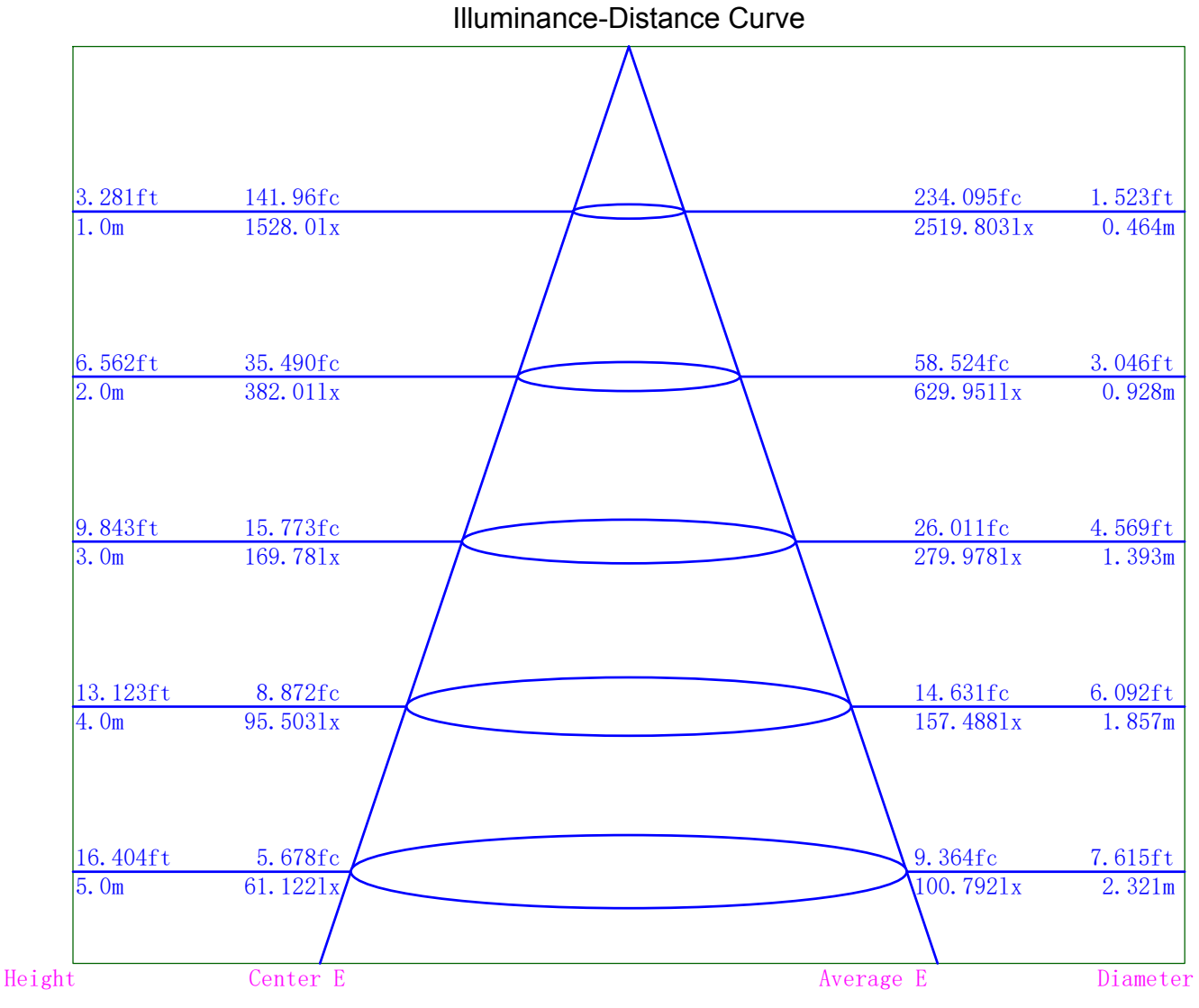


Space Plane Maximum Illuminance and @Angle:1528.05lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:1528.049cd,0eg

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Illuminance-Distance Diagram

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27



Beam Angle:26.1

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Indoor Luminance Limiting Curves

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27

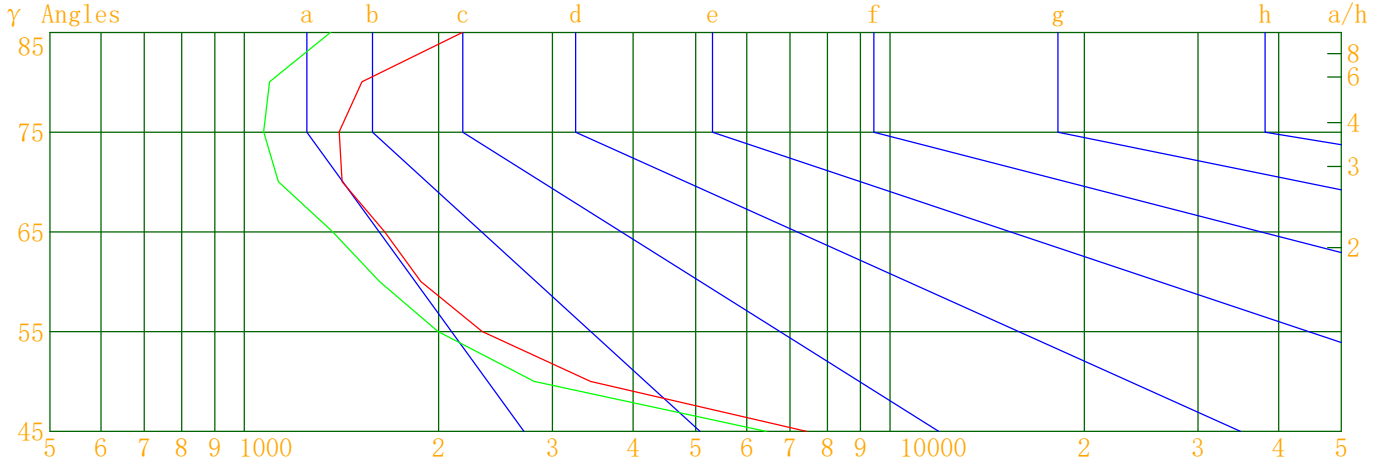
Glare Grade Table

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	7424	3437	2336	1877	1649	1417	1403	1521	2175
C90	6429	2811	1995	1620	1370	1129	1071	1094	1359

Luminance Limiting Curve

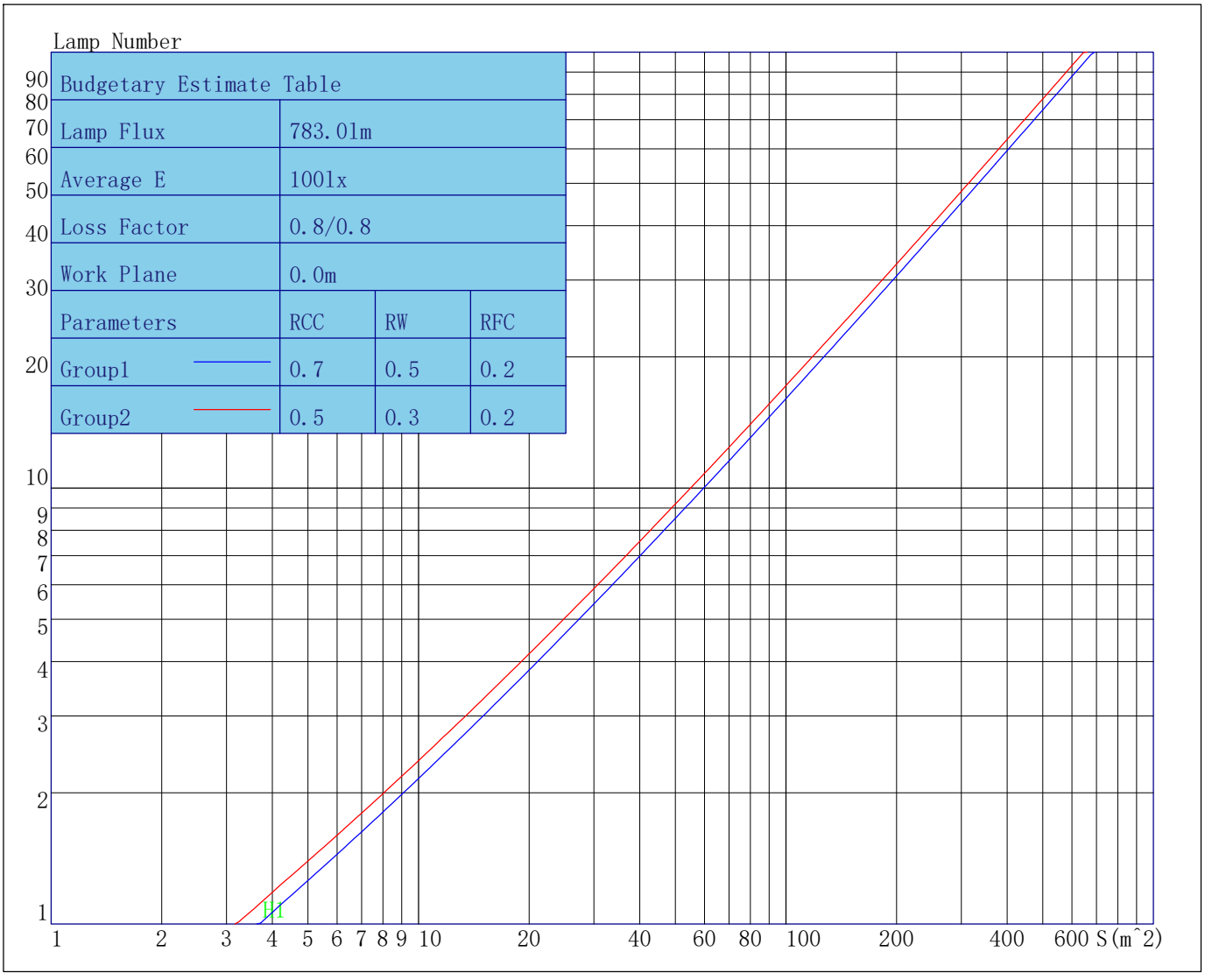


Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.080 Area(m^2)=0.015708
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

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Indoor Budgetary Estimate Table

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27



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-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC(%)	80				70				50			30			10			0
RhoW(%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	113	110	107	105	110	108	105	103	103	101	100	99	98	97	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	93	91	88	90	88	86	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	80	77	74	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	67	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	73	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58	65	61	57	64	60	57	56
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

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Unified Glare Rating Table

Lum.Name: HCP-813024-2700K RA90 28D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/09/27

Unified Glare Rating Table

Ceiling RCC		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size		Vewed crosswise					Vewed endwise				
X=2H	Y=2H	15.5	16.5	15.9	16.9	17.2	14.9	15.9	15.3	16.3	16.6
	Y=3H	15.5	16.4	15.9	16.8	17.2	14.8	15.8	15.3	16.1	16.5
	Y=4H	15.5	16.4	15.9	16.7	17.2	14.8	15.7	15.3	16.1	16.5
	Y=6H	15.5	16.3	15.9	16.7	17.1	14.8	15.6	15.2	16.0	16.4
	Y=8H	15.5	16.3	16.0	16.7	17.1	14.8	15.6	15.3	16.0	16.4
	Y=12H	15.6	16.3	16.0	16.7	17.1	14.8	15.5	15.2	15.9	16.4
X=4H	Y=2H	15.3	16.2	15.7	16.5	17.0	14.7	15.6	15.1	16.0	16.4
	Y=3H	15.4	16.1	15.8	16.5	16.9	14.7	15.4	15.2	15.9	16.3
	Y=4H	15.4	16.1	15.9	16.5	17.0	14.7	15.4	15.2	15.8	16.3
	Y=6H	15.5	16.1	16.0	16.5	17.0	14.8	15.3	15.3	15.8	16.3
	Y=8H	15.6	16.1	16.1	16.5	17.0	14.8	15.3	15.3	15.8	16.3
	Y=12H	15.6	16.1	16.2	16.6	17.1	14.8	15.3	15.3	15.8	16.3
X=8H	Y=4H	15.3	15.8	15.8	16.3	16.8	14.7	15.2	15.2	15.6	16.1
	Y=6H	15.5	15.9	16.0	16.4	17.0	14.7	15.2	15.3	15.7	16.2
	Y=8H	15.6	16.0	16.1	16.5	17.0	14.8	15.2	15.3	15.7	16.2
	Y=12H	15.8	16.1	16.3	16.6	17.2	14.9	15.2	15.4	15.7	16.3
X=12H	Y=4H	15.3	15.7	15.8	16.2	16.7	14.6	15.1	15.1	15.6	16.1
	Y=6H	15.5	15.8	16.0	16.3	16.9	14.7	15.1	15.3	15.6	16.2
	Y=8H	15.6	16.0	16.2	16.5	17.1	14.8	15.1	15.3	15.7	16.3
Variations with the observer position at spacings											
S=1.0H		0.2/-0.2					0.3/-0.4				
S=1.5H		0.4/-0.5					0.6/-0.6				
S=2.0H		0.7/-0.6					1.0/-0.9				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		0.7					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	1528.05	1528.05	1528.05	1528.05
γ 1.0	1507.48	1491.32	1532.27	1532.08
γ 2.0	1475.22	1447.32	1516.81	1522.40
γ 3.0	1422.65	1390.87	1483.50	1496.21
γ 4.0	1353.56	1317.88	1434.60	1456.42
γ 5.0	1273.80	1232.99	1367.40	1397.99
γ 6.0	1189.45	1148.03	1286.07	1326.14
γ 7.0	1108.02	1069.17	1203.80	1247.04
γ 8.0	1030.93	993.56	1123.88	1167.09
γ 9.0	960.20	921.91	1047.51	1089.70
γ 10.0	897.91	857.50	973.88	1015.02
γ 11.0	841.93	801.27	904.86	942.78
γ 12.0	793.49	753.36	843.00	878.09
γ 13.0	750.04	709.84	789.55	822.16
γ 14.0	710.24	672.59	743.18	774.73
γ 15.0	675.80	639.59	700.76	732.88
γ 16.0	643.41	607.70	665.98	694.43
γ 17.0	614.41	580.29	634.07	659.07
γ 18.0	586.96	554.84	604.04	627.94
γ 19.0	562.34	530.41	576.94	600.27
γ 20.0	538.08	505.85	550.94	574.05
γ 21.0	515.20	483.23	526.54	548.05
γ 22.0	492.15	460.44	501.49	523.61
γ 23.0	469.30	437.94	477.45	499.38
γ 24.0	447.10	415.95	454.02	476.01
γ 25.0	424.49	394.81	431.72	453.22
γ 26.0	402.55	374.14	408.29	430.75
γ 27.0	382.38	354.37	385.74	408.14
γ 28.0	362.94	335.36	364.87	386.11
γ 29.0	344.85	319.34	344.82	364.76
γ 30.0	329.15	304.98	326.41	345.16
γ 31.0	315.42	292.02	310.70	328.66
γ 32.0	302.76	280.49	298.27	314.48
γ 33.0	291.09	269.46	286.22	301.03
γ 34.0	280.43	258.65	275.79	289.15
γ 35.0	268.86	245.97	266.34	278.25
γ 36.0	254.91	231.13	256.91	267.48
γ 37.0	238.74	215.67	245.50	254.64
γ 38.0	221.47	198.45	231.73	240.01
γ 39.0	202.20	180.24	214.62	223.95
γ 40.0	181.83	162.15	196.02	206.18
γ 41.0	162.08	142.97	176.21	187.65
γ 42.0	140.92	124.75	156.21	169.50
γ 43.0	121.14	106.18	136.12	150.37
γ 44.0	100.88	88.32	115.95	132.04
γ 45.0	82.46	71.41	96.09	113.06
γ 46.0	66.57	56.65	77.44	94.60

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	53.70	44.48	61.28	76.63
γ 48.0	45.16	36.40	47.87	61.58
γ 49.0	39.32	31.71	38.16	48.51
γ 50.0	34.70	28.38	32.27	39.07
γ 51.0	30.53	25.49	28.22	33.35
γ 52.0	27.20	23.01	24.93	29.65
γ 53.0	24.77	20.86	22.12	26.49
γ 54.0	22.80	19.27	19.96	24.04
γ 55.0	21.04	17.97	18.36	22.05
γ 56.0	19.50	16.69	17.01	20.06
γ 57.0	17.93	15.56	15.78	18.44
γ 58.0	16.67	14.54	14.64	17.00
γ 59.0	15.62	13.54	13.70	15.79
γ 60.0	14.74	12.72	12.74	14.75
γ 61.0	13.96	11.97	11.97	13.71
γ 62.0	13.16	11.19	11.33	12.92
γ 63.0	12.44	10.49	10.64	12.19
γ 64.0	11.62	9.73	10.00	11.43
γ 65.0	10.95	9.09	9.40	10.80
γ 66.0	10.15	8.32	8.79	10.08
γ 67.0	9.46	7.69	8.19	9.46
γ 68.0	8.68	7.00	7.59	8.77
γ 69.0	8.09	6.49	7.02	8.19
γ 70.0	7.61	6.07	6.44	7.55
γ 71.0	7.20	5.69	6.10	7.11
γ 72.0	6.80	5.32	5.78	6.76
γ 73.0	6.40	4.97	5.48	6.42
γ 74.0	6.04	4.66	5.20	6.12
γ 75.0	5.70	4.36	4.93	5.82
γ 76.0	5.37	4.05	4.66	5.53
γ 77.0	5.05	3.77	4.39	5.26
γ 78.0	4.74	3.49	4.13	4.98
γ 79.0	4.44	3.24	3.88	4.72
γ 80.0	4.15	2.98	3.63	4.43
γ 81.0	3.88	2.73	3.38	4.18
γ 82.0	3.66	2.49	3.13	3.92
γ 83.0	3.46	2.28	2.90	3.68
γ 84.0	3.26	2.08	2.66	3.47
γ 85.0	2.98	1.86	2.42	3.27
γ 86.0	2.68	1.62	2.19	3.05
γ 87.0	2.38	1.33	1.94	2.74
γ 88.0	1.82	0.99	1.69	2.44
γ 89.0	1.54	0.83	1.39	2.15
γ 90.0	1.44	0.76	1.13	1.75
γ 91.0	1.35	0.69	0.99	1.56
γ 92.0	1.25	0.63	0.92	1.46
γ 93.0	1.19	0.57	0.84	1.37

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	1.12	0.51	0.77	1.28
γ 95.0	1.04	0.45	0.71	1.20
γ 96.0	0.97	0.41	0.66	1.12
γ 97.0	0.91	0.37	0.59	1.05
γ 98.0	0.86	0.33	0.54	0.98
γ 99.0	0.80	0.28	0.50	0.92
γ 100.0	0.75	0.26	0.45	0.87
γ 101.0	0.70	0.22	0.42	0.81
γ 102.0	0.66	0.21	0.39	0.76
γ 103.0	0.63	0.19	0.36	0.72
γ 104.0	0.60	0.18	0.34	0.69
γ 105.0	0.57	0.16	0.33	0.65
γ 106.0	0.56	0.16	0.32	0.62
γ 107.0	0.54	0.14	0.32	0.61
γ 108.0	0.52	0.15	0.30	0.58
γ 109.0	0.50	0.14	0.30	0.57
γ 110.0	0.50	0.15	0.30	0.55
γ 111.0	0.50	0.16	0.31	0.55
γ 112.0	0.50	0.17	0.32	0.55
γ 113.0	0.49	0.17	0.34	0.55
γ 114.0	0.50	0.19	0.35	0.57
γ 115.0	0.51	0.21	0.38	0.56
γ 116.0	0.51	0.23	0.40	0.58
γ 117.0	0.51	0.25	0.43	0.59
γ 118.0	0.54	0.27	0.45	0.61
γ 119.0	0.56	0.32	0.49	0.63
γ 120.0	0.59	0.34	0.53	0.67
γ 121.0	0.62	0.38	0.58	0.70
γ 122.0	0.65	0.43	0.63	0.72
γ 123.0	0.68	0.47	0.68	0.77
γ 124.0	0.73	0.54	0.72	0.81
γ 125.0	0.77	0.58	0.78	0.85
γ 126.0	0.82	0.65	0.83	0.90
γ 127.0	0.88	0.71	0.90	0.94
γ 128.0	0.94	0.77	0.96	1.00
γ 129.0	1.00	0.86	1.02	1.05
γ 130.0	1.07	0.92	1.09	1.11
γ 131.0	1.13	1.00	1.16	1.16
γ 132.0	1.21	1.08	1.24	1.23
γ 133.0	1.28	1.16	1.31	1.30
γ 134.0	1.36	1.25	1.41	1.38
γ 135.0	1.44	1.34	1.49	1.45
γ 136.0	1.53	1.44	1.59	1.53
γ 137.0	1.62	1.53	1.68	1.62
γ 138.0	1.72	1.63	1.78	1.70
γ 139.0	1.80	1.74	1.88	1.79
γ 140.0	1.90	1.83	1.99	1.89

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	1.99	1.93	2.09	1.99
γ 142.0	2.10	2.03	2.19	2.09
γ 143.0	2.19	2.13	2.30	2.18
γ 144.0	2.28	2.22	2.40	2.28
γ 145.0	2.37	2.31	2.50	2.37
γ 146.0	2.46	2.42	2.59	2.45
γ 147.0	2.54	2.50	2.68	2.55
γ 148.0	2.64	2.60	2.76	2.63
γ 149.0	2.73	2.68	2.85	2.71
γ 150.0	2.81	2.76	2.93	2.79
γ 151.0	2.89	2.84	3.01	2.87
γ 152.0	2.97	2.91	3.08	2.95
γ 153.0	3.05	2.99	3.16	3.01
γ 154.0	3.13	3.05	3.24	3.09
γ 155.0	3.19	3.13	3.31	3.17
γ 156.0	3.27	3.20	3.37	3.22
γ 157.0	3.33	3.26	3.44	3.28
γ 158.0	3.40	3.32	3.50	3.35
γ 159.0	3.46	3.38	3.57	3.41
γ 160.0	3.52	3.44	3.62	3.47
γ 161.0	3.59	3.49	3.68	3.51
γ 162.0	3.64	3.56	3.73	3.56
γ 163.0	3.69	3.62	3.80	3.62
γ 164.0	3.77	3.68	3.86	3.67
γ 165.0	3.81	3.74	3.90	3.73
γ 166.0	3.87	3.80	3.96	3.77
γ 167.0	3.92	3.85	4.01	3.82
γ 168.0	3.97	3.90	4.05	3.86
γ 169.0	4.01	3.94	4.11	3.90
γ 170.0	4.05	3.99	4.14	3.95
γ 171.0	4.09	4.02	4.18	4.00
γ 172.0	4.13	4.06	4.21	4.03
γ 173.0	4.16	4.08	4.23	4.06
γ 174.0	4.18	4.11	4.26	4.09
γ 175.0	4.21	4.14	4.28	4.11
γ 176.0	4.22	4.15	4.29	4.15
γ 177.0	4.24	4.18	4.30	4.17
γ 178.0	4.26	4.19	4.31	4.18
γ 179.0	4.27	4.20	4.32	4.20
γ 180.0	4.26	4.26	4.26	4.26