

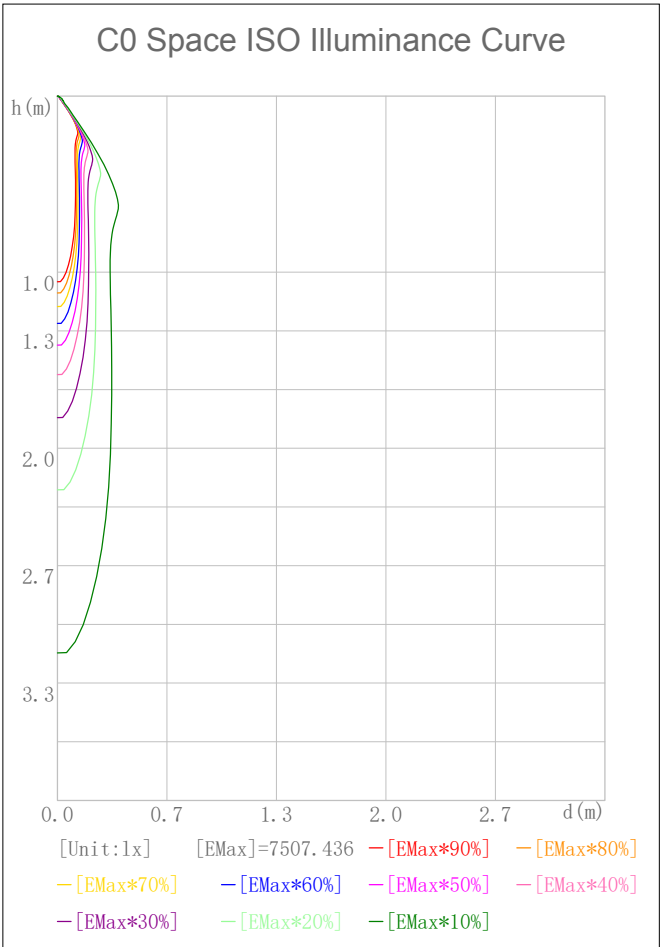
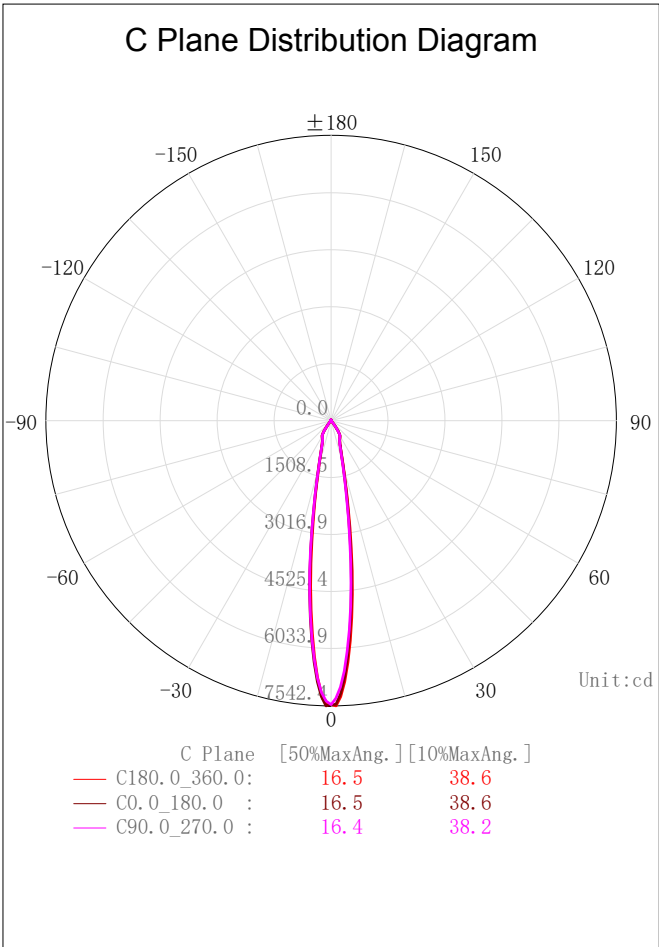
Indoor Luminaire Photometric Data

Description Information

Luminary Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Date: 2018/07/20
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H):0.050m*0.050m*0.000m	Lum. Area (m2):0.002	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25
		Humidity(%): 50.0

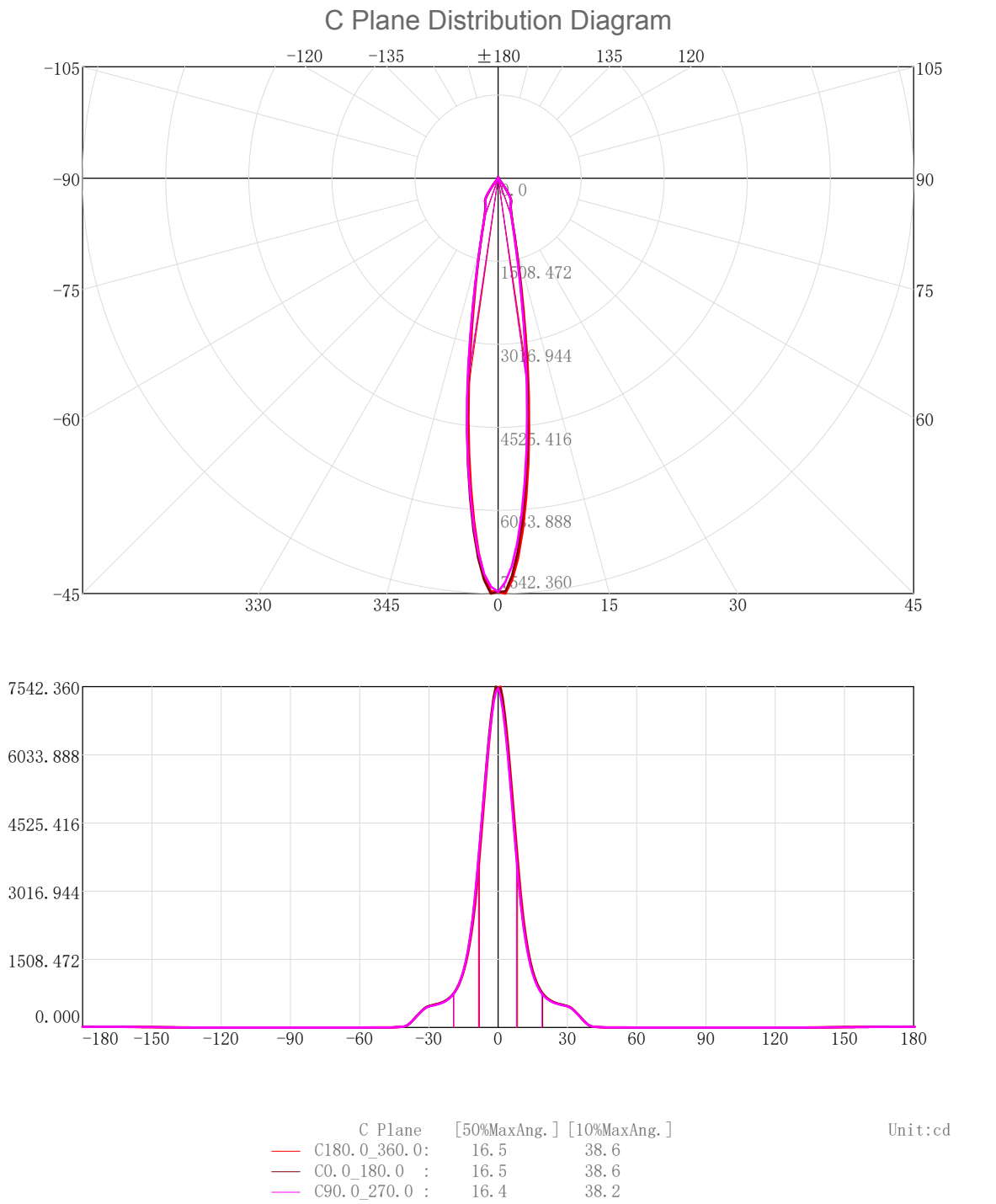
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1000.000	Luminary Flux(lm): 1246.738	Field Angle(10%Imax): 38.6(°)
Rated Power(W):	Luminary Efficiency: 124.67%	Down Lumens&Percent: 1229.117lm 98.59%
Rated Voltage(V):	Luminary EER(lm/W): 97.174	Up Lumens&Percent: 17.621lm 1.41%
Tested Power(W): 12.830	Max. Candela(cd): 7542.360	S/MH: C0_a180=0.284 C90_270=0.282
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):219.8, 0.106, 0.546	Beam Angle(50%Imax): 16.5(°)	ErP Φ use(90°): 1221.947lm
Lamp Size (W*L*H):0.050m*0.050m*0.000m	Left=-8.1°, Right=8.4°	IRF(%): 1200.594



2D Plane Light Intensity Distribution Curve

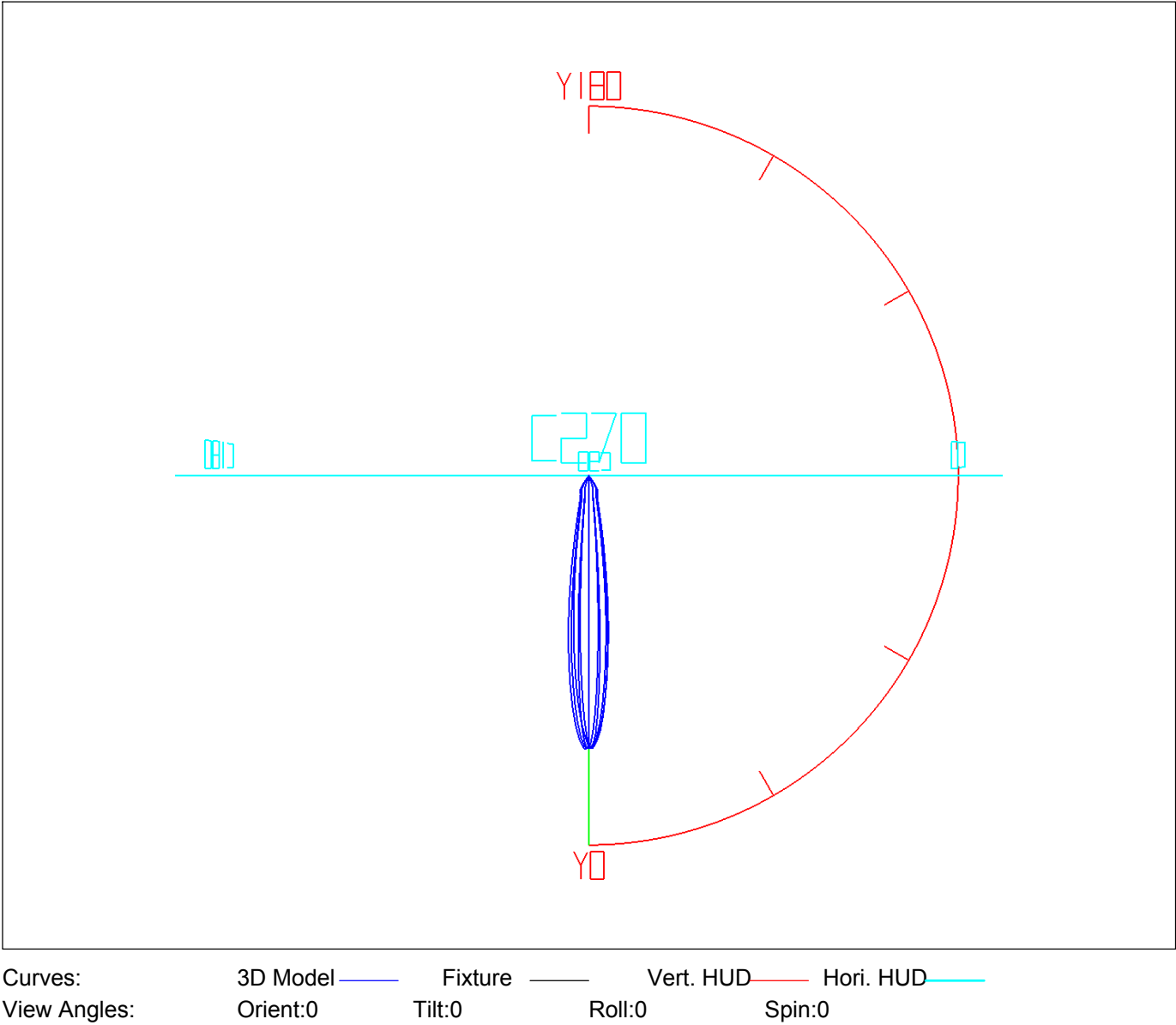
Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20



3D Light Intensity Distribution Modal

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

3D Light Intensity Distribution Modal



Zonal Flux Tabulation

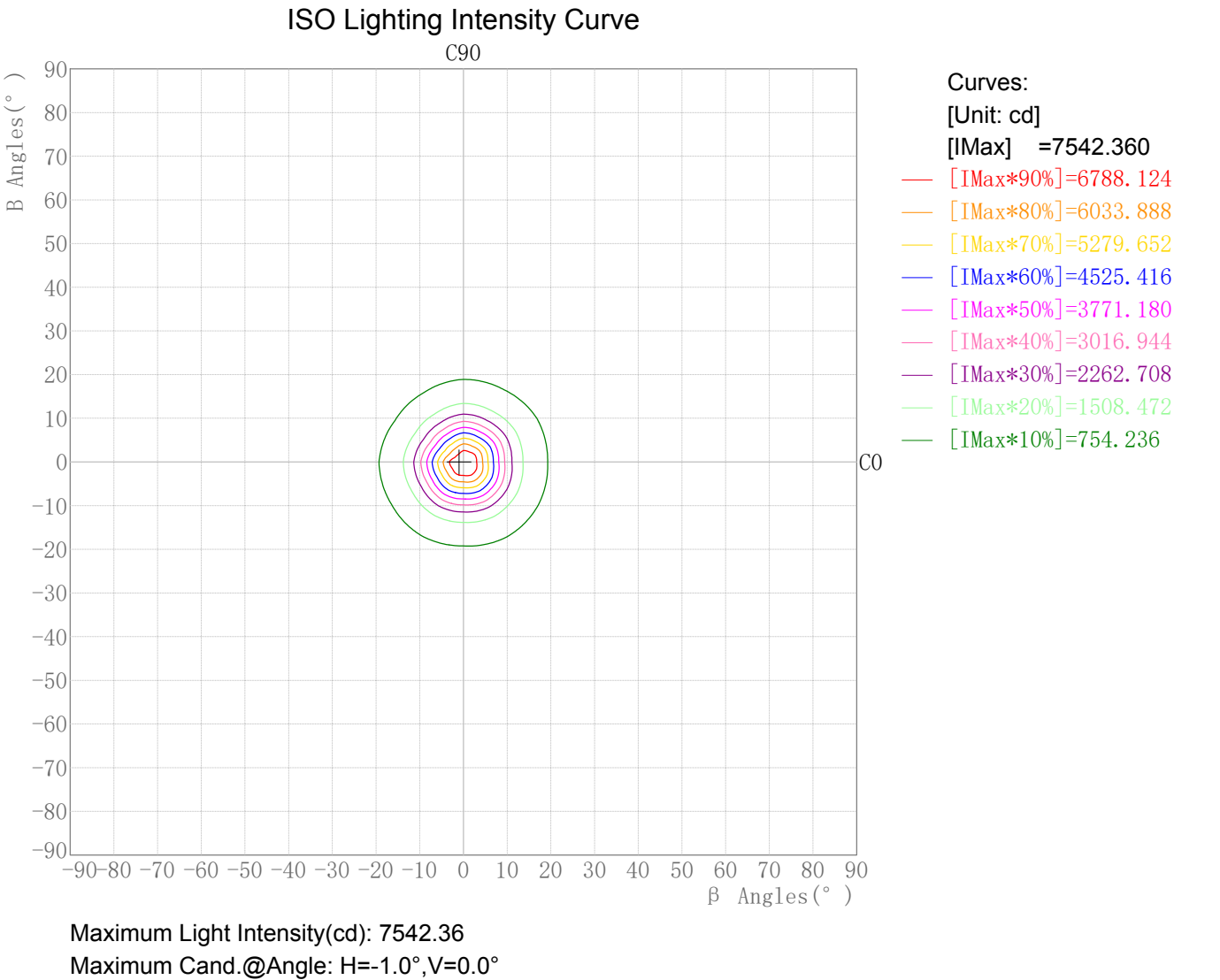
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	7.13	7.13	0.71	0.71	47.0-48.0	0.23	1226.54	0.02	122.65
1.0-2.0	20.89	28.02	2.09	2.80	48.0-49.0	0.21	1226.75	0.02	122.68
2.0-3.0	33.25	61.27	3.32	6.13	49.0-50.0	0.20	1226.96	0.02	122.70
3.0-4.0	43.51	104.78	4.35	10.48	50.0-51.0	0.19	1227.15	0.02	122.72
4.0-5.0	51.31	156.08	5.13	15.61	51.0-52.0	0.18	1227.33	0.02	122.73
5.0-6.0	56.56	212.64	5.66	21.26	52.0-53.0	0.17	1227.50	0.02	122.75
6.0-7.0	59.35	272.00	5.94	27.20	53.0-54.0	0.16	1227.67	0.02	122.77
7.0-8.0	59.83	331.83	5.98	33.18	54.0-55.0	0.15	1227.82	0.02	122.78
8.0-9.0	58.28	390.11	5.83	39.01	55.0-56.0	0.14	1227.96	0.01	122.80
9.0-10.0	55.19	445.30	5.52	44.53	56.0-57.0	0.14	1228.10	0.01	122.81
10.0-11.0	51.23	496.52	5.12	49.65	57.0-58.0	0.13	1228.23	0.01	122.82
11.0-12.0	47.02	543.54	4.70	54.35	58.0-59.0	0.12	1228.34	0.01	122.83
12.0-13.0	43.02	586.56	4.30	58.66	59.0-60.0	0.11	1228.45	0.01	122.85
13.0-14.0	39.42	625.98	3.94	62.60	60.0-61.0	0.10	1228.56	0.01	122.86
14.0-15.0	36.28	662.26	3.63	66.23	61.0-62.0	0.09	1228.65	0.01	122.86
15.0-16.0	33.59	695.85	3.36	69.59	62.0-63.0	0.08	1228.73	0.01	122.87
16.0-17.0	31.30	727.16	3.13	72.72	63.0-64.0	0.08	1228.81	0.01	122.88
17.0-18.0	29.41	756.57	2.94	75.66	64.0-65.0	0.07	1228.88	0.01	122.89
18.0-19.0	27.91	784.48	2.79	78.45	65.0-66.0	0.06	1228.94	0.01	122.89
19.0-20.0	26.76	811.24	2.68	81.12	66.0-67.0	0.05	1229.00	0.01	122.90
20.0-21.0	25.92	837.15	2.59	83.72	67.0-68.0	0.04	1229.04	0.00	122.90
21.0-22.0	25.34	862.49	2.53	86.25	68.0-69.0	0.03	1229.07	0.00	122.91
22.0-23.0	24.97	887.47	2.50	88.75	69.0-70.0	0.02	1229.09	0.00	122.91
23.0-24.0	24.78	912.25	2.48	91.22	70.0-71.0	0.01	1229.10	0.00	122.91
24.0-25.0	24.75	936.99	2.47	93.70	71.0-72.0	0.01	1229.11	0.00	122.91
25.0-26.0	24.85	961.84	2.48	96.18	72.0-73.0	0.00	1229.11	0.00	122.91
26.0-27.0	25.05	986.89	2.50	98.69	73.0-74.0	0.00	1229.12	0.00	122.91
27.0-28.0	25.28	1012.17	2.53	101.22	74.0-75.0	0.00	1229.12	0.00	122.91
28.0-29.0	25.45	1037.62	2.54	103.76	75.0-76.0	0.00	1229.12	0.00	122.91
29.0-30.0	25.54	1063.16	2.55	106.32	76.0-77.0	0.00	1229.12	0.00	122.91
30.0-31.0	25.42	1088.58	2.54	108.86	77.0-78.0	0.00	1229.12	0.00	122.91
31.0-32.0	24.66	1113.24	2.47	111.32	78.0-79.0	0.00	1229.12	0.00	122.91
32.0-33.0	23.07	1136.31	2.31	113.63	79.0-80.0	0.00	1229.12	0.00	122.91
33.0-34.0	20.81	1157.12	2.08	115.71	80.0-81.0	0.00	1229.12	0.00	122.91
34.0-35.0	18.08	1175.20	1.81	117.52	81.0-82.0	0.00	1229.12	0.00	122.91
35.0-36.0	15.02	1190.22	1.50	119.02	82.0-83.0	0.00	1229.12	0.00	122.91
36.0-37.0	11.79	1202.01	1.18	120.20	83.0-84.0	0.00	1229.12	0.00	122.91
37.0-38.0	8.62	1210.63	0.86	121.06	84.0-85.0	0.00	1229.12	0.00	122.91
38.0-39.0	5.72	1216.35	0.57	121.64	85.0-86.0	0.00	1229.12	0.00	122.91
39.0-40.0	3.43	1219.79	0.34	121.98	86.0-87.0	0.00	1229.12	0.00	122.91
40.0-41.0	2.00	1221.78	0.20	122.18	87.0-88.0	0.00	1229.12	0.00	122.91
41.0-42.0	1.35	1223.14	0.14	122.31	88.0-89.0	0.00	1229.12	0.00	122.91
42.0-43.0	1.07	1224.21	0.11	122.42	89.0-90.0	0.00	1229.12	0.00	122.91
43.0-44.0	0.82	1225.03	0.08	122.50	90.0-91.0	0.00	1229.12	0.00	122.91
44.0-45.0	0.59	1225.62	0.06	122.56	91.0-92.0	0.00	1229.12	0.00	122.91
45.0-46.0	0.40	1226.02	0.04	122.60	92.0-93.0	0.00	1229.12	0.00	122.91
46.0-47.0	0.29	1226.31	0.03	122.63	93.0-94.0	0.00	1229.12	0.00	122.91

Zonal Flux Tabulation - (Cont.)

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.00	1229.12	0.00	122.91	141.0-142.0	0.31	1231.61	0.03	123.16
95.0-96.0	0.00	1229.12	0.00	122.91	142.0-143.0	0.34	1231.95	0.03	123.20
96.0-97.0	0.00	1229.12	0.00	122.91	143.0-144.0	0.37	1232.32	0.04	123.23
97.0-98.0	0.00	1229.12	0.00	122.91	144.0-145.0	0.40	1232.72	0.04	123.27
98.0-99.0	0.00	1229.12	0.00	122.91	145.0-146.0	0.42	1233.14	0.04	123.31
99.0-100.0	0.00	1229.12	0.00	122.91	146.0-147.0	0.45	1233.59	0.04	123.36
100.0-101.0	0.00	1229.12	0.00	122.91	147.0-148.0	0.47	1234.06	0.05	123.41
101.0-102.0	0.00	1229.12	0.00	122.91	148.0-149.0	0.49	1234.55	0.05	123.45
102.0-103.0	0.00	1229.12	0.00	122.91	149.0-150.0	0.51	1235.05	0.05	123.51
103.0-104.0	0.00	1229.12	0.00	122.91	150.0-151.0	0.52	1235.58	0.05	123.56
104.0-105.0	0.00	1229.12	0.00	122.91	151.0-152.0	0.54	1236.11	0.05	123.61
105.0-106.0	0.00	1229.12	0.00	122.91	152.0-153.0	0.54	1236.66	0.05	123.67
106.0-107.0	0.00	1229.12	0.00	122.91	153.0-154.0	0.55	1237.21	0.06	123.72
107.0-108.0	0.00	1229.12	0.00	122.91	154.0-155.0	0.56	1237.76	0.06	123.78
108.0-109.0	0.00	1229.12	0.00	122.91	155.0-156.0	0.56	1238.32	0.06	123.83
109.0-110.0	0.00	1229.12	0.00	122.91	156.0-157.0	0.55	1238.87	0.06	123.89
110.0-111.0	0.00	1229.12	0.00	122.91	157.0-158.0	0.55	1239.43	0.06	123.94
111.0-112.0	0.00	1229.12	0.00	122.91	158.0-159.0	0.55	1239.97	0.05	124.00
112.0-113.0	0.00	1229.12	0.00	122.91	159.0-160.0	0.54	1240.51	0.05	124.05
113.0-114.0	0.00	1229.12	0.00	122.91	160.0-161.0	0.53	1241.05	0.05	124.10
114.0-115.0	0.00	1229.12	0.00	122.91	161.0-162.0	0.52	1241.57	0.05	124.16
115.0-116.0	0.00	1229.12	0.00	122.91	162.0-163.0	0.51	1242.08	0.05	124.21
116.0-117.0	0.00	1229.12	0.00	122.91	163.0-164.0	0.50	1242.58	0.05	124.26
117.0-118.0	0.00	1229.12	0.00	122.91	164.0-165.0	0.48	1243.06	0.05	124.31
118.0-119.0	0.00	1229.12	0.00	122.91	165.0-166.0	0.46	1243.51	0.05	124.35
119.0-120.0	0.00	1229.12	0.00	122.91	166.0-167.0	0.43	1243.95	0.04	124.39
120.0-121.0	0.00	1229.12	0.00	122.91	167.0-168.0	0.41	1244.36	0.04	124.44
121.0-122.0	0.00	1229.12	0.00	122.91	168.0-169.0	0.38	1244.74	0.04	124.47
122.0-123.0	0.00	1229.12	0.00	122.91	169.0-170.0	0.35	1245.09	0.04	124.51
123.0-124.0	0.01	1229.13	0.00	122.91	170.0-171.0	0.32	1245.41	0.03	124.54
124.0-125.0	0.01	1229.14	0.00	122.91	171.0-172.0	0.28	1245.69	0.03	124.57
125.0-126.0	0.02	1229.16	0.00	122.92	172.0-173.0	0.25	1245.94	0.02	124.59
126.0-127.0	0.03	1229.20	0.00	122.92	173.0-174.0	0.21	1246.16	0.02	124.62
127.0-128.0	0.05	1229.24	0.00	122.92	174.0-175.0	0.18	1246.34	0.02	124.63
128.0-129.0	0.06	1229.30	0.01	122.93	175.0-176.0	0.15	1246.48	0.01	124.65
129.0-130.0	0.07	1229.37	0.01	122.94	176.0-177.0	0.11	1246.60	0.01	124.66
130.0-131.0	0.09	1229.46	0.01	122.95	177.0-178.0	0.08	1246.67	0.01	124.67
131.0-132.0	0.10	1229.55	0.01	122.96	178.0-179.0	0.05	1246.72	0.00	124.67
132.0-133.0	0.11	1229.66	0.01	122.97	179.0-180.0	0.02	1246.74	0.00	124.67
133.0-134.0	0.13	1229.80	0.01	122.98					
134.0-135.0	0.15	1229.95	0.01	122.99					
135.0-136.0	0.17	1230.11	0.02	123.01					
136.0-137.0	0.19	1230.30	0.02	123.03					
137.0-138.0	0.21	1230.52	0.02	123.05					
138.0-139.0	0.23	1230.75	0.02	123.07					
139.0-140.0	0.26	1231.01	0.03	123.10					
140.0-141.0	0.29	1231.30	0.03	123.13					

Rectangle ISO Lighting Intensity Diagram

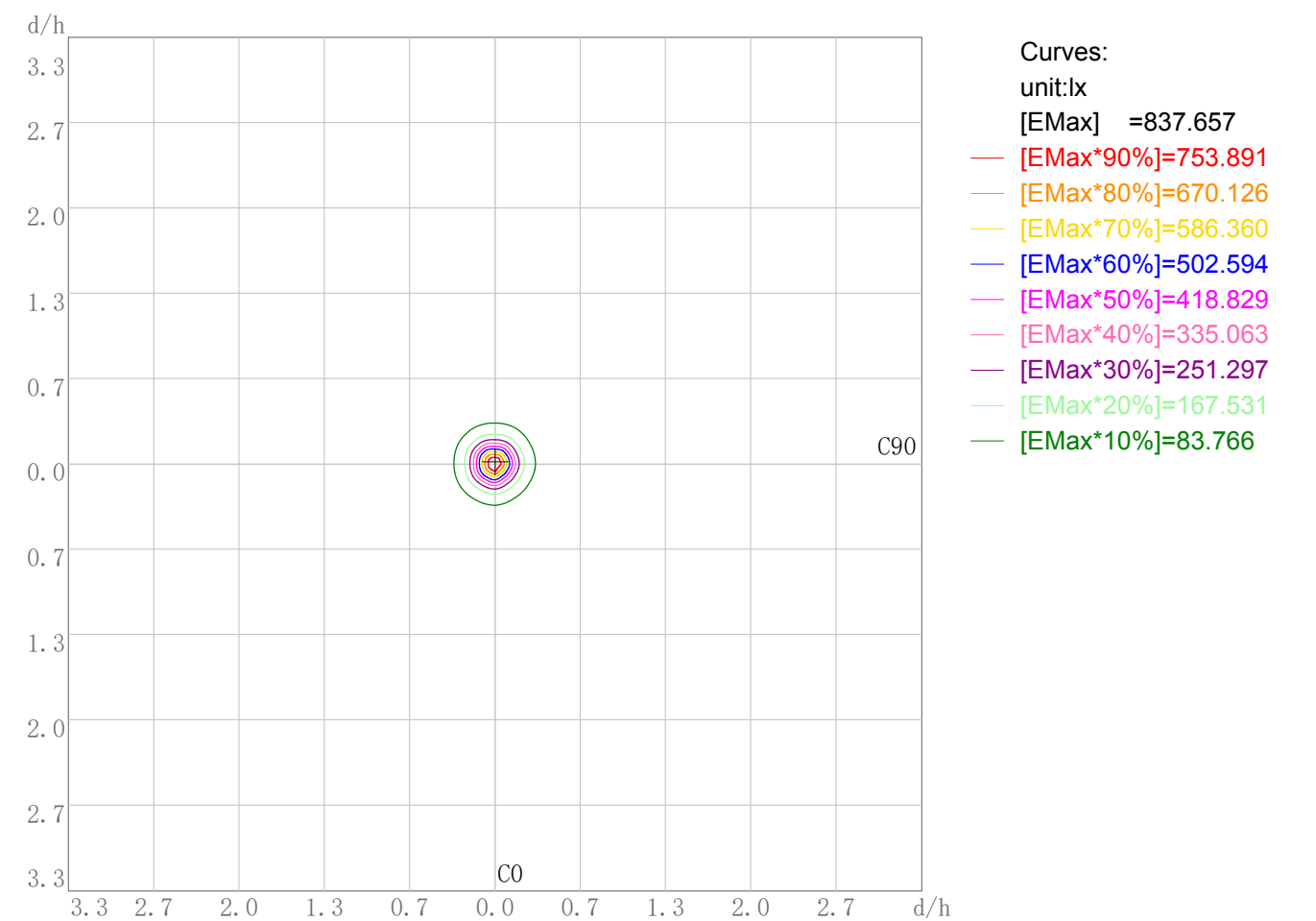
Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20



Plane ISO-Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacturer:	Test Machine:GON-2000	Test Date: 2018/07/20

Plane ISO-Illuminance Curve

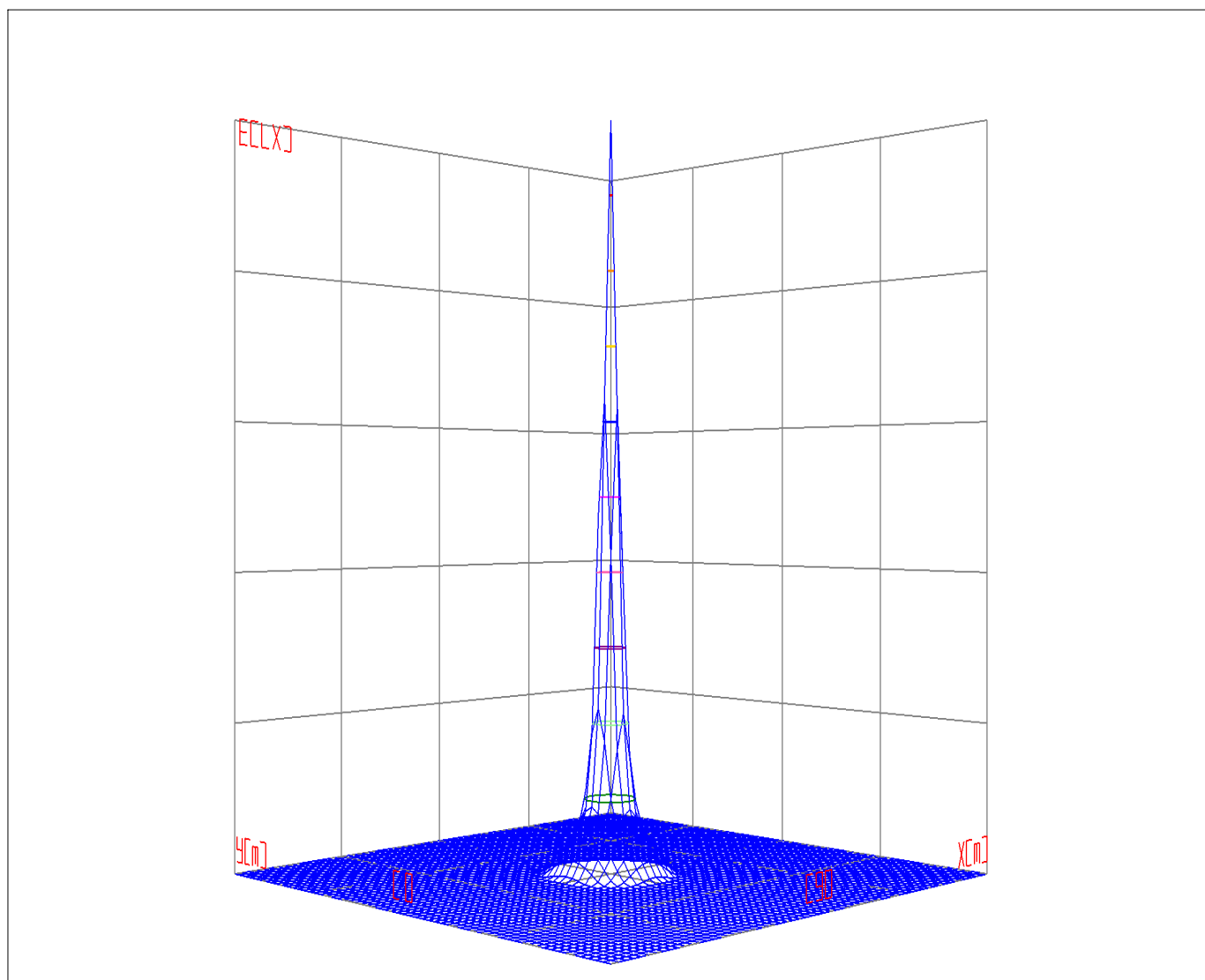


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 837.66  
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

### 3D Plane ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

### 3D Plane Illuminance Modal



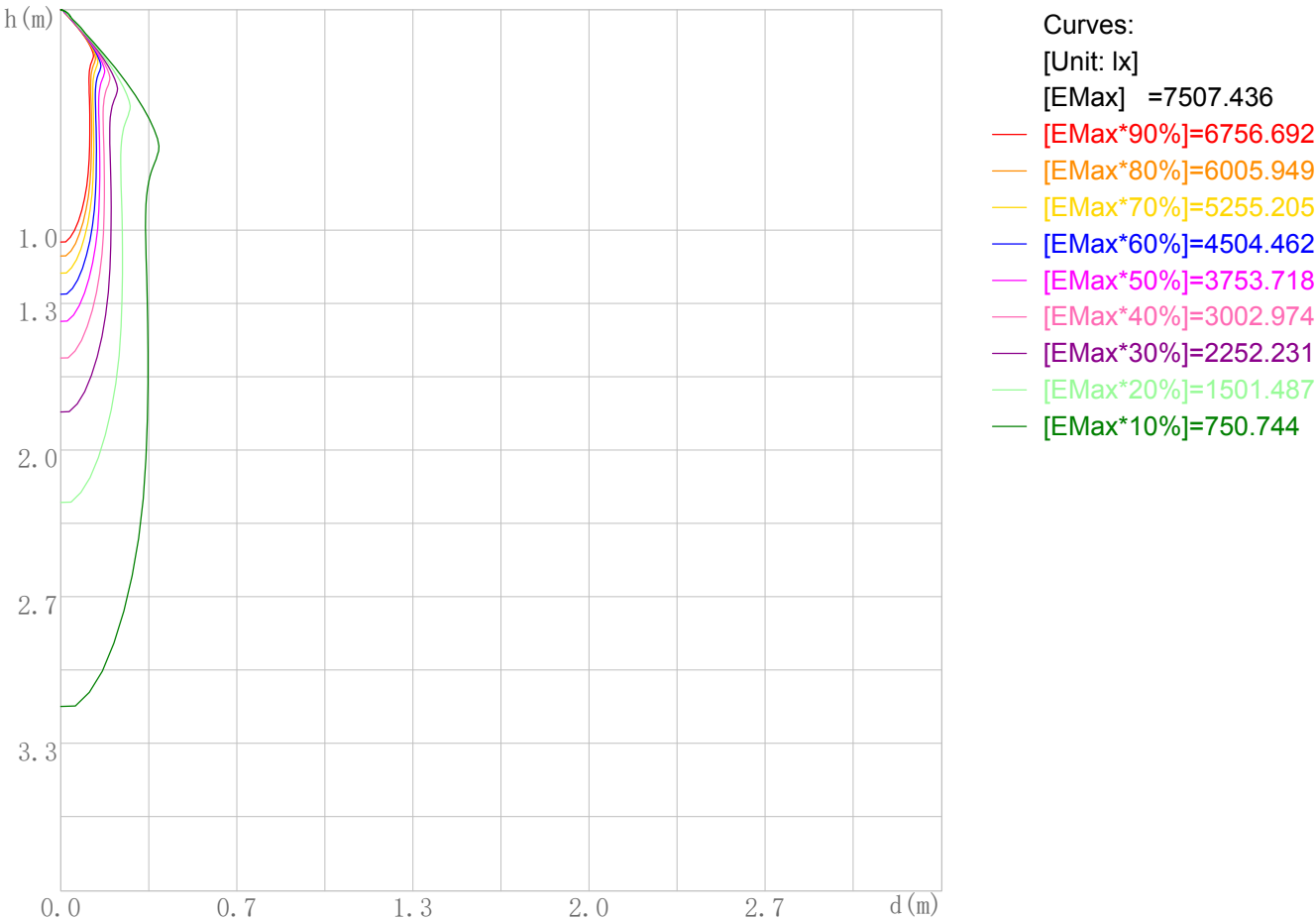
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
 View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0



Space ISO Illuminance Diagram

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

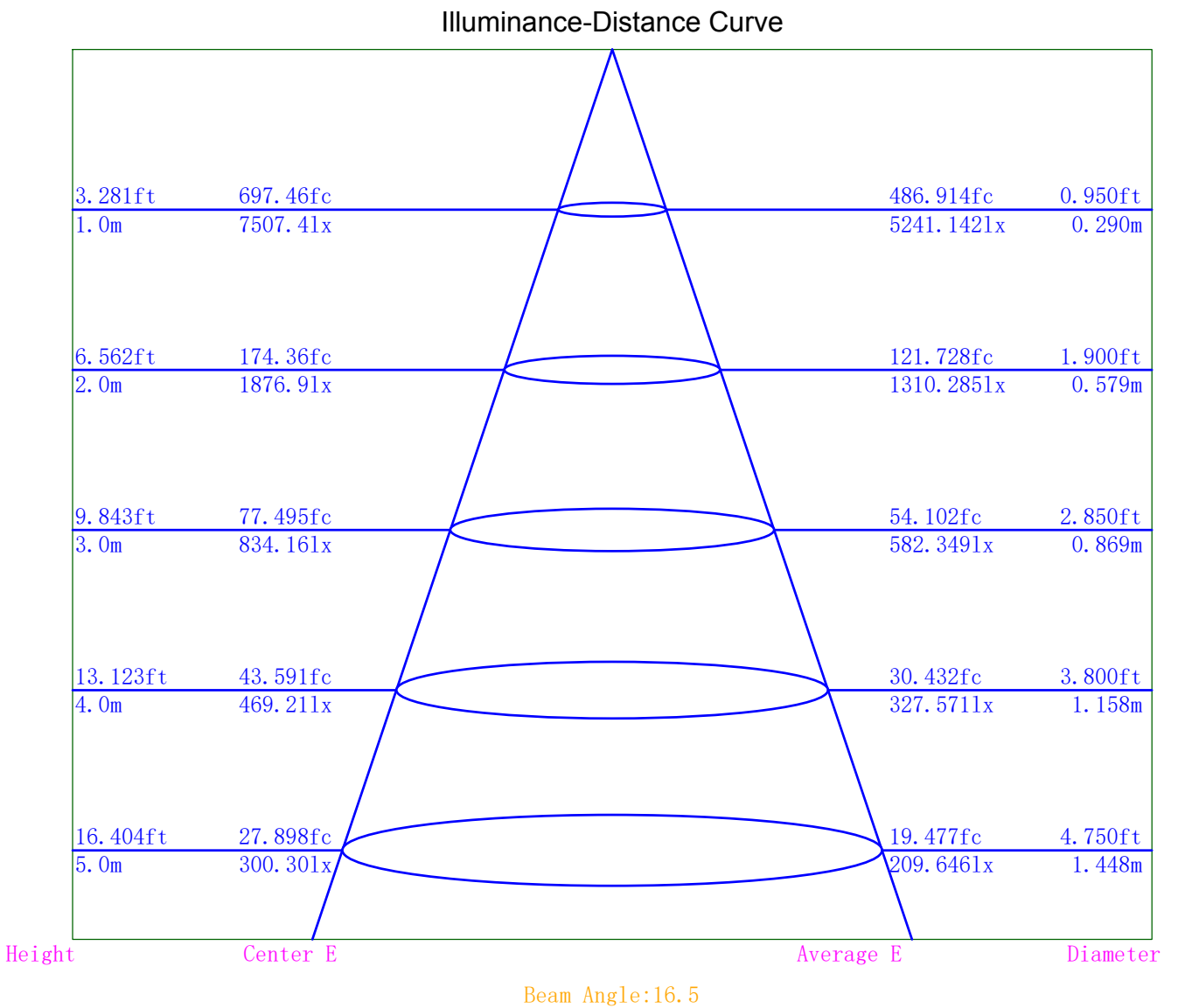
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:7507.44lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:7507.436cd,0deg

Illuminance-Distance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20



Indoor Luminance Limiting Curves

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

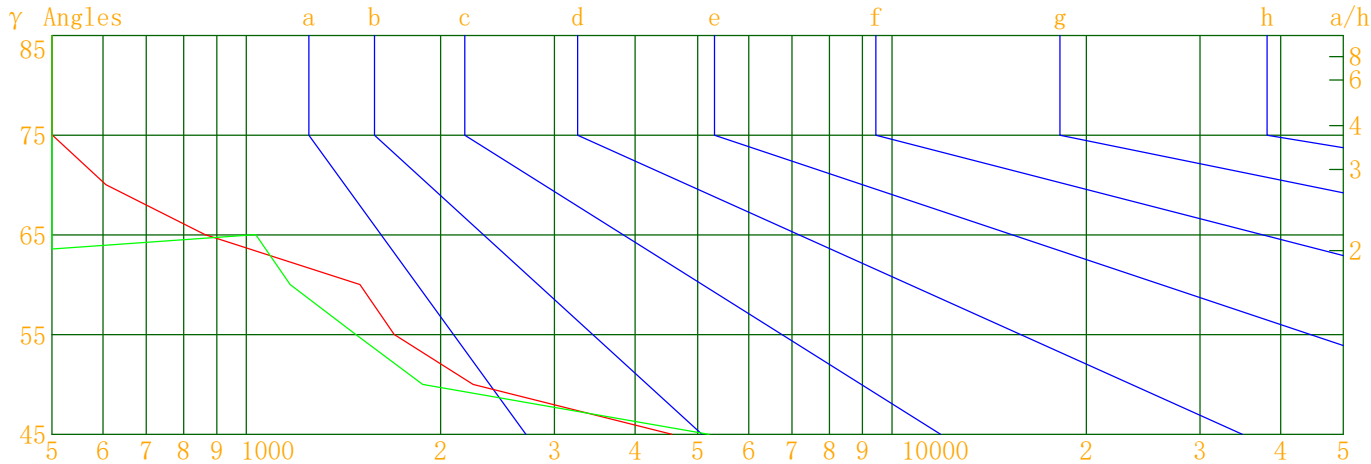
Glare Grade Table

GI	Quality	Using Illuminance							
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	4566	2245	1694	1499	863	606	0	0	0
C90	5207	1875	1478	1169	1034	86	0	0	0

Luminance Limiting Curve



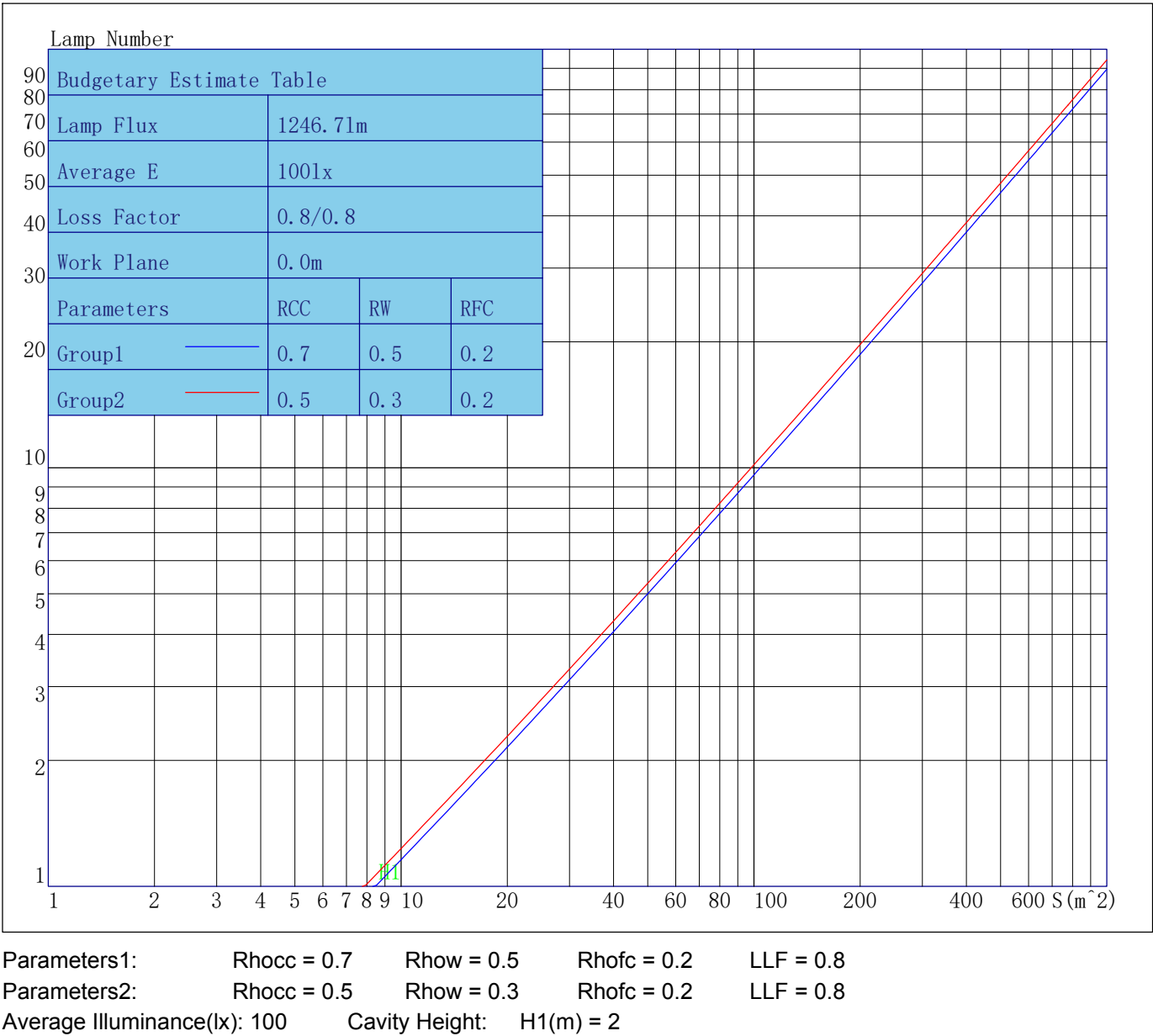
Luminous Size:    Length(m)= -0.050    Width(m)= -0.050    Height(m)= 0.000    Area(m^2)= 0.001963

Luminous Type:    Without Luminous Side

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

Indoor Budgetary Estimate Table

Table with 3 columns: Lum. Name, Lum. Catalog, Test ID; Lamp Name, Lamp Catalog, Test Lab; Manufacture, Test Machine, Test Date.



Indoor Coefficient of Utilization Table

Table with 3 columns: Lum. Name, Lum. Catalog, Test ID; Lamp Name, Lamp Catalog, Test Lab; Manufacture, Test Machine, Test Date.

Table with 7 columns: Coef., Effective Floor Cavity Reflectance RFC=0.20, RhoCC (%), RhoW (%), RCR, Coefficient of Utilization (%), and numerical values for RCR from 0 to 10.

Unified Glare Rating Table

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

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	18.7	19.9	19.1	20.2	20.6	18.1	19.3	18.4	19.6	20.0
	18.5	19.6	18.9	20.0	20.4	17.8	19.0	18.2	19.3	19.7
	18.3	19.4	18.8	19.8	20.2	17.7	18.8	18.1	19.2	19.6
	18.2	19.2	18.7	19.6	20.1	17.6	18.6	18.0	19.0	19.5
	18.2	19.2	18.6	19.6	20.0	17.5	18.5	18.0	18.9	19.4
	18.1	19.1	18.6	19.5	19.9	17.5	18.4	17.9	18.9	19.3
X=4H    Y=2H	18.3	19.4	18.8	19.8	20.2	17.7	18.8	18.1	19.2	19.6
	18.1	19.1	18.5	19.5	19.9	17.5	18.4	17.9	18.9	19.3
	18.0	18.9	18.4	19.3	19.8	17.3	18.2	17.8	18.7	19.2
	17.8	18.7	18.3	19.1	19.6	17.2	18.1	17.7	18.5	19.0
	17.8	18.6	18.2	19.0	19.5	17.1	17.9	17.6	18.4	18.9
	17.7	18.5	18.2	19.0	19.5	17.1	17.8	17.6	18.3	18.8
X=8H    Y=4H	17.8	18.6	18.2	19.0	19.5	17.1	17.9	17.6	18.4	18.9
	17.6	18.3	18.1	18.9	19.5	17.0	17.7	17.5	18.2	18.9
	17.5	18.2	18.0	18.7	19.3	16.9	17.6	17.4	18.1	18.6
	17.4	18.1	18.0	18.6	19.2	16.8	17.5	17.3	18.0	18.6
X=12H    Y=4H	17.7	18.5	18.2	19.0	19.5	17.1	17.8	17.6	18.3	18.8
	17.5	18.2	18.1	18.7	19.3	16.9	17.6	17.4	18.1	18.7
	17.4	18.1	18.0	18.6	19.2	16.8	17.5	17.3	18.0	18.6
Variations with the objverver position at spacings										
S=1.0H	0.0/0.0					0.0/0.0				
S=1.5H	5.6/0.0					8.0/0.0				
S=2.0H	5.3/0.0					6.7/0.0				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	0.0					0.0				

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

IES Indoor Report

Photometric Filename:UL-12W-COB-1200-AH 15D.IES

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
γ 0.0	7507.44	7507.44	7507.44	7507.44	7507.44	7507.44	7507.44	7507.44	7507.44	7507.44	7507.44	7507.44
γ 1.0	7501.44	7485.94	7362.99	7338.36	7194.03	7202.69	7542.36	7455.80	7465.13	7415.59	7440.69	7428.35
γ 2.0	7221.50	7245.14	7064.69	7051.47	6831.62	6849.04	7298.61	7181.09	7252.12	7194.38	7307.87	7284.92
γ 3.0	6794.72	6854.89	6633.70	6631.82	6349.46	6378.33	6910.08	6767.95	6889.40	6821.92	7011.17	6980.42
γ 4.0	6251.41	6344.75	6108.52	6116.46	5800.71	5831.74	6408.94	6256.52	6410.59	6333.99	6569.18	6531.76
γ 5.0	5653.81	5761.97	5522.66	5543.20	5214.87	5248.22	5837.11	5698.05	5865.40	5785.70	6032.47	5984.26
γ 6.0	5035.89	5149.07	4909.58	4938.48	4609.99	4646.23	5235.63	5111.97	5289.85	5216.26	5462.07	5393.98
γ 7.0	4418.34	4535.04	4292.99	4321.72	3999.25	4038.03	4623.78	4510.57	4705.90	4633.41	4876.56	4796.40
γ 8.0	3810.75	3931.73	3693.85	3721.16	3411.04	3454.06	4012.22	3899.51	4115.73	4044.57	4285.65	4193.45
γ 9.0	3230.93	3353.10	3137.05	3161.58	2879.05	2916.93	3420.95	3313.50	3529.70	3465.10	3701.49	3606.18
γ 10.0	2717.11	2827.75	2644.19	2662.60	2417.39	2447.88	2878.32	2779.06	2976.90	2919.76	3141.93	3054.30
γ 11.0	2287.02	2380.60	2222.51	2236.98	2030.90	2053.71	2408.04	2316.70	2483.57	2436.67	2634.50	2560.59
γ 12.0	1936.14	2010.44	1874.82	1885.08	1712.39	1728.50	2019.03	1939.52	2073.60	2036.84	2201.94	2146.01
γ 13.0	1648.91	1706.82	1589.94	1599.65	1455.39	1466.44	1703.87	1638.30	1743.92	1718.85	1851.91	1810.79
γ 14.0	1415.58	1461.19	1360.29	1369.77	1248.90	1258.17	1452.73	1398.06	1480.94	1463.99	1572.13	1540.81
γ 15.0	1226.24	1262.94	1176.91	1185.23	1084.44	1092.98	1251.53	1207.45	1273.19	1257.82	1347.92	1324.68
γ 16.0	1072.11	1101.81	1031.06	1036.99	954.32	960.28	1090.54	1055.39	1105.58	1091.81	1166.44	1150.34
γ 17.0	948.68	970.76	913.57	916.82	850.31	854.41	960.95	932.66	970.67	959.28	1019.32	1008.54
γ 18.0	850.18	866.49	819.58	821.38	768.10	770.64	857.20	833.94	862.78	853.70	902.28	893.97
γ 19.0	771.13	784.16	746.18	746.71	703.78	705.27	775.16	756.03	777.89	769.28	809.74	803.37
γ 20.0	708.82	718.87	688.29	688.11	653.03	653.92	710.71	694.15	710.65	703.03	735.33	731.42
γ 21.0	660.13	667.34	642.31	641.65	612.77	612.63	659.89	645.18	657.22	650.57	676.46	674.77
γ 22.0	621.39	626.71	605.76	604.60	580.84	579.51	619.28	606.62	615.13	609.62	630.42	629.50
γ 23.0	590.17	593.90	576.66	574.66	554.88	552.83	586.85	576.09	582.07	577.49	594.06	593.27
γ 24.0	564.40	566.86	553.12	550.71	533.98	531.80	560.92	551.65	555.36	551.20	564.95	564.10
γ 25.0	544.64	546.03	534.28	532.32	517.70	515.40	540.96	532.60	534.50	531.01	541.07	540.19
γ 26.0	528.45	529.51	519.37	517.24	504.23	502.08	524.85	517.40	518.29	515.15	522.37	522.37
γ 27.0	514.63	515.87	506.99	504.62	492.86	490.71	511.50	504.45	504.91	502.16	507.89	507.96
γ 28.0	502.62	504.18	495.96	492.88	480.56	478.13	499.79	491.37	492.88	490.11	495.57	495.42
γ 29.0	487.58	490.08	481.63	479.23	467.74	465.27	485.33	476.84	478.47	475.71	482.13	482.38
γ 30.0	475.01	476.77	469.11	466.71	452.92	450.15	472.54	464.43	466.70	464.03	469.36	469.18
γ 31.0	456.01	461.11	448.84	447.18	424.60	422.88	453.08	441.31	449.12	446.23	457.34	457.09
γ 32.0	421.87	431.74	414.50	412.96	384.24	382.00	418.85	402.27	416.26	412.84	433.74	433.39
γ 33.0	377.11	390.62	368.99	368.41	335.28	333.46	372.47	354.59	371.72	368.96	395.96	395.83
γ 34.0	325.63	339.04	316.15	317.69	281.93	278.74	320.34	302.32	320.60	318.28	348.79	349.44
γ 35.0	270.68	286.17	261.73	262.84	226.32	223.73	264.57	246.30	267.78	264.73	295.57	297.08
γ 36.0	213.90	228.04	204.60	205.62	170.77	169.13	207.35	190.63	210.80	207.65	240.48	242.48
γ 37.0	158.28	173.17	151.75	152.36	119.73	118.84	152.92	137.68	156.74	153.83	184.43	186.83
γ 38.0	107.65	121.55	102.20	103.28	74.54	74.50	103.48	88.74	105.72	104.33	132.86	133.90
γ 39.0	63.78	76.15	61.47	62.49	41.60	40.98	61.72	51.65	63.52	63.01	86.53	87.01
γ 40.0	35.10	42.06	34.12	34.46	23.17	22.30	33.54	27.82	35.04	34.54	49.79	49.36
γ 41.0	20.58	23.38	21.18	20.98	17.99	16.71	19.26	18.02	19.85	19.58	26.85	27.05
γ 42.0	16.70	18.10	17.71	17.86	14.88	13.39	15.59	14.32	15.75	15.63	17.92	17.91
γ 43.0	12.82	14.38	13.88	14.28	11.39	10.04	11.79	10.48	11.72	11.94	14.37	14.44
γ 44.0	9.40	10.81	10.07	10.38	8.07	6.89	8.57	7.43	8.36	8.41	10.41	10.79
γ 45.0	6.34	7.44	6.87	7.23	5.56	4.51	5.72	4.86	5.63	5.42	7.26	7.33
γ 46.0	4.28	4.96	4.77	5.02	4.04	3.22	3.62	3.08	3.45	3.52	4.96	4.73

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 47. 0	3. 49	3. 67	3. 43	3. 51	3. 16	2. 75	2. 93	2. 69	2. 49	2. 70	3. 17	3. 35
γ 48. 0	3. 02	3. 14	2. 74	2. 55	2. 39	2. 33	2. 61	2. 56	2. 50	2. 43	2. 60	2. 83
γ 49. 0	2. 78	2. 73	2. 78	2. 59	2. 32	2. 20	2. 23	2. 19	2. 29	2. 22	2. 61	2. 46
γ 50. 0	2. 83	2. 82	2. 61	2. 37	2. 35	2. 20	2. 32	2. 14	2. 01	2. 29	2. 47	2. 44
γ 51. 0	2. 60	2. 65	2. 19	2. 10	1. 99	1. 89	2. 19	2. 12	1. 98	2. 17	2. 14	2. 41
γ 52. 0	2. 30	2. 34	2. 26	2. 06	1. 79	1. 76	1. 91	1. 78	2. 01	1. 79	2. 16	2. 12
γ 53. 0	2. 39	2. 25	2. 13	1. 97	1. 84	1. 80	1. 82	1. 62	1. 66	1. 76	2. 11	1. 87
γ 54. 0	2. 16	2. 22	1. 81	1. 64	1. 71	1. 59	1. 82	1. 75	1. 41	1. 86	1. 75	1. 94
γ 55. 0	1. 91	1. 89	1. 79	1. 66	1. 41	1. 37	1. 49	1. 43	1. 51	1. 42	1. 60	1. 75
γ 56. 0	1. 86	1. 69	1. 71	1. 63	1. 42	1. 41	1. 41	1. 27	1. 42	1. 28	1. 66	1. 44
γ 57. 0	1. 89	1. 81	1. 45	1. 32	1. 41	1. 36	1. 45	1. 34	1. 12	1. 41	1. 51	1. 44
γ 58. 0	1. 58	1. 63	1. 35	1. 24	1. 16	1. 12	1. 20	1. 23	1. 09	1. 21	1. 28	1. 50
γ 59. 0	1. 41	1. 38	1. 40	1. 31	1. 02	1. 01	1. 04	0. 92	1. 15	1. 03	1. 26	1. 27
γ 60. 0	1. 47	1. 40	1. 11	1. 15	1. 16	1. 08	1. 16	1. 00	0. 92	1. 08	1. 25	1. 07
γ 61. 0	1. 25	1. 32	1. 02	0. 95	1. 00	0. 96	1. 00	0. 97	0. 71	1. 01	1. 00	1. 11
γ 62. 0	1. 08	0. 96	1. 09	1. 00	0. 76	0. 79	0. 76	0. 73	0. 84	0. 75	0. 90	0. 98
γ 63. 0	1. 11	1. 09	0. 86	0. 86	0. 73	0. 80	0. 88	0. 61	0. 84	0. 73	1. 04	0. 76
γ 64. 0	1. 02	1. 01	0. 72	0. 67	0. 86	0. 75	0. 81	0. 75	0. 51	0. 77	0. 84	0. 76
γ 65. 0	0. 72	0. 73	0. 80	0. 86	0. 62	0. 55	0. 52	0. 51	0. 52	0. 54	0. 52	0. 84
γ 66. 0	0. 79	0. 62	0. 61	0. 70	0. 40	0. 36	0. 53	0. 35	0. 55	0. 40	0. 63	0. 63
γ 67. 0	0. 72	0. 69	0. 37	0. 32	0. 49	0. 46	0. 53	0. 48	0. 25	0. 46	0. 63	0. 40
γ 68. 0	0. 44	0. 41	0. 49	0. 46	0. 40	0. 28	0. 21	0. 27	0. 23	0. 37	0. 25	0. 48
γ 69. 0	0. 29	0. 22	0. 38	0. 36	0. 12	0. 08	0. 22	0. 00	0. 31	0. 08	0. 24	0. 37
γ 70. 0	0. 41	0. 36	0. 09	0. 06	0. 08	0. 09	0. 28	0. 14	0. 18	0. 19	0. 33	0. 16
γ 71. 0	0. 16	0. 23	0. 16	0. 07	0. 12	0. 11	0. 00	0. 06	0. 00	0. 07	0. 06	0. 04
γ 72. 0	0. 01	0. 00	0. 10	0. 14	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 14
γ 73. 0	0. 10	0. 06	0. 00	0. 00	0. 00	0. 00	0. 12	0. 00	0. 04	0. 00	0. 03	0. 00
γ 74. 0	0. 05	0. 06	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 75. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 76. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 77. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 78. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 79. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 80. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 81. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 82. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 83. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 84. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 85. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 86. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 87. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 88. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 89. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 90. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 91. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 92. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 93. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00



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 94. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 95. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 96. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 97. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 98. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 99. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 100. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 101. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 102. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 103. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 104. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 105. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 106. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 107. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 108. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 109. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 110. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 111. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 112. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 113. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 114. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 115. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 116. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 117. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 118. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 119. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 120. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 121. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 122. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 12	0. 00	0. 00	0. 00
γ 123. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 04	0. 15	0. 30	0. 00	0. 16	0. 00	0. 08
γ 124. 0	0. 00	0. 03	0. 00	0. 00	0. 04	0. 00	0. 39	0. 39	0. 10	0. 37	0. 23	0. 23
γ 125. 0	0. 00	0. 00	0. 02	0. 00	0. 03	0. 03	0. 37	0. 32	0. 44	0. 26	0. 28	0. 11
γ 126. 0	0. 25	0. 06	0. 01	0. 09	0. 15	0. 27	0. 48	0. 61	0. 47	0. 48	0. 27	0. 40
γ 127. 0	0. 16	0. 38	0. 22	0. 30	0. 39	0. 42	0. 75	0. 89	0. 50	0. 81	0. 50	0. 61
γ 128. 0	0. 40	0. 31	0. 42	0. 28	0. 43	0. 37	0. 89	0. 78	0. 81	0. 71	0. 78	0. 65
γ 129. 0	0. 71	0. 40	0. 48	0. 46	0. 48	0. 72	0. 91	1. 03	1. 03	0. 90	0. 79	0. 69
γ 130. 0	0. 63	0. 77	0. 57	0. 80	0. 87	0. 96	1. 19	1. 38	1. 08	1. 15	0. 96	1. 06
γ 131. 0	0. 80	0. 89	0. 89	0. 80	1. 08	0. 89	1. 46	1. 38	1. 28	1. 26	1. 25	1. 12
γ 132. 0	1. 21	0. 85	1. 09	0. 90	1. 01	1. 14	1. 49	1. 56	1. 72	1. 39	1. 35	1. 20
γ 133. 0	1. 38	1. 28	1. 15	1. 30	1. 33	1. 58	1. 80	1. 97	1. 70	1. 83	1. 47	1. 61
γ 134. 0	1. 42	1. 57	1. 44	1. 51	1. 69	1. 64	2. 26	2. 21	1. 97	2. 09	1. 94	1. 89
γ 135. 0	1. 86	1. 60	1. 85	1. 56	1. 85	1. 85	2. 52	2. 32	2. 43	2. 20	2. 19	1. 96
γ 136. 0	2. 12	1. 94	1. 96	1. 99	2. 05	2. 31	2. 64	2. 84	2. 65	2. 56	2. 32	2. 41
γ 137. 0	2. 31	2. 44	2. 20	2. 41	2. 48	2. 57	3. 23	3. 33	2. 86	3. 05	2. 82	2. 87
γ 138. 0	2. 72	2. 59	2. 73	2. 57	2. 88	2. 78	3. 67	3. 54	3. 43	3. 32	3. 22	3. 07
γ 139. 0	3. 25	2. 82	3. 10	2. 99	3. 06	3. 31	3. 93	3. 97	3. 90	3. 66	3. 48	3. 45
γ 140. 0	3. 40	3. 49	3. 27	3. 46	3. 57	3. 78	4. 50	4. 67	4. 17	4. 32	3. 94	4. 12

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	3.88	3.85	3.79	3.73	4.16	4.05	5.19	5.13	4.68	4.83	4.51	4.52
γ 142.0	4.57	4.11	4.38	4.11	4.41	4.58	5.61	5.60	5.45	5.16	4.96	4.91
γ 143.0	4.79	4.71	4.79	4.83	4.86	5.13	6.16	6.32	5.91	5.91	5.44	5.75
γ 144.0	5.29	5.31	5.09	5.26	5.45	5.41	6.97	6.99	6.42	6.60	6.27	6.25
γ 145.0	5.97	5.64	5.76	5.60	6.02	5.97	7.61	7.46	7.36	7.04	6.85	6.75
γ 146.0	6.47	6.19	6.38	6.30	6.34	6.63	8.15	8.12	7.86	7.72	7.30	7.47
γ 147.0	6.78	6.83	6.71	6.86	6.94	6.98	8.86	9.03	8.39	8.58	8.10	8.24
γ 148.0	7.48	7.23	7.20	7.16	7.62	7.45	9.67	9.54	9.27	9.16	8.84	8.63
γ 149.0	8.07	7.62	7.91	7.69	7.97	8.17	10.15	10.00	9.86	9.64	9.35	9.34
γ 150.0	8.28	8.32	8.36	8.41	8.39	8.46	10.78	10.87	10.32	10.44	10.03	10.12
γ 151.0	8.82	8.81	8.68	8.77	9.08	8.90	11.46	11.43	11.07	11.08	10.86	10.62
γ 152.0	9.50	9.16	9.36	9.15	9.56	9.60	12.19	11.88	11.82	11.38	11.31	11.20
γ 153.0	9.79	9.81	9.92	9.71	9.87	9.96	12.52	12.49	12.20	11.98	11.79	12.02
γ 154.0	10.25	10.39	10.27	10.18	10.37	10.30	13.12	13.14	12.73	12.65	12.50	12.39
γ 155.0	10.93	10.67	10.63	10.45	10.95	10.94	13.78	13.58	13.38	12.89	13.06	12.86
γ 156.0	11.28	11.19	11.34	10.98	11.24	11.41	14.18	13.88	13.74	13.25	13.34	13.51
γ 157.0	11.68	11.90	11.76	11.60	11.68	11.76	14.46	14.55	14.14	13.87	13.89	13.94
γ 158.0	12.37	12.23	12.14	11.89	12.30	12.43	15.15	14.98	14.75	14.13	14.44	14.26
γ 159.0	12.89	12.63	12.68	12.29	12.76	12.92	15.67	15.31	15.06	14.41	14.67	14.87
γ 160.0	13.19	13.42	13.38	12.94	13.06	13.32	15.91	15.72	15.36	14.82	15.07	15.33
γ 161.0	13.93	13.88	13.73	13.46	13.75	13.93	16.39	16.32	15.89	15.31	15.69	15.58
γ 162.0	14.60	14.27	14.12	13.80	14.38	14.53	17.10	16.68	16.31	15.49	15.98	16.05
γ 163.0	14.90	14.95	14.80	14.39	14.71	14.84	17.42	16.97	16.53	15.87	16.19	16.68
γ 164.0	15.53	15.63	15.31	14.99	15.08	15.37	17.62	17.41	16.94	16.33	16.71	16.85
γ 165.0	16.17	15.90	15.56	15.21	15.74	15.94	18.15	17.91	17.32	16.49	17.03	17.21
γ 166.0	16.46	16.34	16.03	15.60	16.00	16.24	18.53	17.96	17.36	16.69	17.18	17.66
γ 167.0	16.89	16.92	16.48	16.16	16.09	16.47	18.60	18.10	17.54	17.07	17.39	17.73
γ 168.0	17.40	17.08	16.60	16.33	16.48	16.84	18.77	18.45	17.84	17.23	17.73	17.92
γ 169.0	17.54	17.25	16.71	16.37	16.76	17.05	19.14	18.41	17.84	17.14	17.76	18.22
γ 170.0	17.71	17.61	17.03	16.64	16.70	17.05	19.08	18.20	17.69	17.22	17.63	18.16
γ 171.0	17.86	17.56	16.81	16.59	16.89	17.11	19.13	18.32	17.70	17.11	17.63	18.19
γ 172.0	17.71	17.70	16.97	16.76	16.75	17.01	19.00	18.01	17.49	17.08	17.38	18.05
γ 173.0	17.66	17.67	16.89	16.65	16.63	16.92	18.81	17.80	17.30	16.96	17.26	17.89
γ 174.0	17.61	17.52	16.86	16.73	16.35	16.91	18.38	17.52	17.22	16.88	17.09	17.52
γ 175.0	17.47	17.45	16.67	16.49	16.32	16.69	18.17	17.18	16.93	16.63	16.84	17.29
γ 176.0	17.49	17.07	16.45	16.25	16.31	16.35	17.97	17.13	16.70	16.36	16.75	17.04
γ 177.0	17.41	16.84	16.52	16.25	15.99	16.41	17.68	16.70	16.71	16.35	16.50	16.74
γ 178.0	17.23	16.91	16.15	16.24	16.15	16.52	17.71	16.84	16.50	16.16	16.25	16.68
γ 179.0	17.38	16.73	16.21	16.14	16.04	16.33	17.56	16.62	16.38	16.24	16.43	16.50
γ 180.0	16.73	16.73	16.73	16.73	16.73	16.73	16.73	16.73	16.73	16.73	16.73	16.73