IES Indoor Report
Photometric Filename:ITB1501L-2.IES

Indoor Luminaire Photometric Data

Description Information

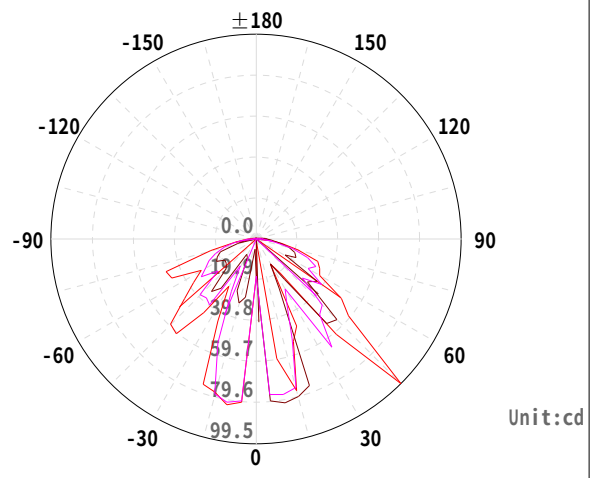
Lum.Name: ITB1501L-2		Lum.Catelog:	Test ID:
Lamp Name:		Lamp Catelog:	Test Date: 2015/07/13
Manufacture:		ShldAngle(°):	Test Machine:GON-2000
Test Lab:		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.000m*0.000m*0.000m		Lum.Area(m2):0.000	Lum.W(kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=5.0	Temp.(℃): 25	Humidity(%): 50.0

Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter		
Rated Flux(lm): 1500.000	Luminaire Flux:	195.054lm	Field Angle(10%Imax): 162.4
Rated Power(W):	Luminaire Efficiency:	13.00%	Down Lumens&Percent: 192.492lm 98.69%
Rated Voltage(V):	Luminaire EER(lm/W):	62.961	Up Lumens&Percent: 2.562lm 1.31%
Tested Power(W): 3.098	Max.Cand.(cd):	99.482	S/MH: C0_a180=1.240 C90_270=2.278
Lamps' Inside: 1	Max Cand@Ang.(°):	C=210.0 γ=45.0	CIE Type: Semi-Direct
Tested Electric:U=11.9V,I=0.340A,PF=0.763	Beam Angle(50%Imax):	103.5	ErP Φuse(90°): 84.934lm
Lamp Size(W*L*H):0.000m*0.000m*0.000m	Left=-48.3 Right=55.3		IRF: 138.337%

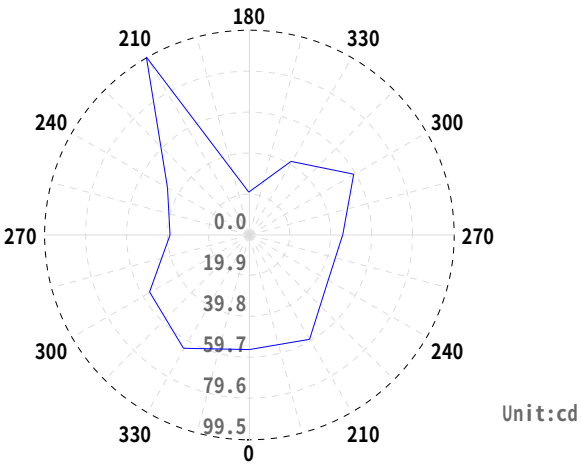
Lighting Distribution Diagram

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C210.0_30.0 :	103.5	162.4
C0.0_180.0 :	46.5	160.7
C90.0_270.0 :	69.2	163.0

γ Cone Curve



γ Cone	[Max.Cand.]	[Min.Cand.]
γ45.0:	99.482	20.591

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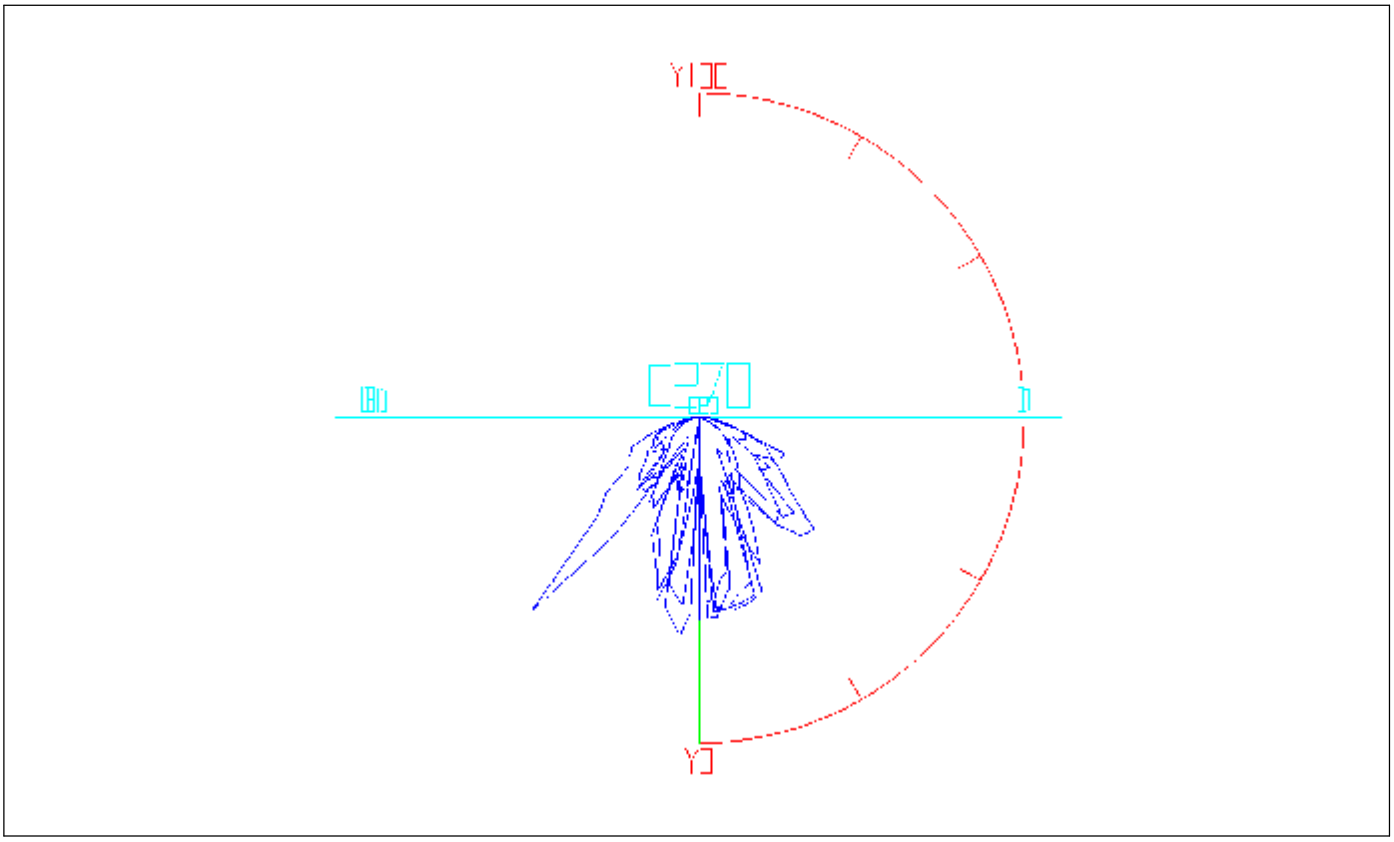
3D Light Intensity Distribution Modal

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

3D Light Intensity Distribution Modal



Curves: 3D Model —— Fixture —— Vert. HUD —— Hori. HUD ——

View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	0.93	0.93	0.06	0.06
5.0-10.0	4.75	5.68	0.32	0.38
10.0-15.0	8.64	14.32	0.58	0.95
15.0-20.0	11.32	25.64	0.75	1.71
20.0-25.0	10.73	36.37	0.72	2.42
25.0-30.0	7.84	44.20	0.52	2.95
30.0-35.0	8.63	52.83	0.58	3.52
35.0-40.0	13.83	66.66	0.92	4.44
40.0-45.0	18.59	85.24	1.24	5.68
45.0-50.0	18.88	104.12	1.26	6.94
50.0-55.0	16.98	121.11	1.13	8.07
55.0-60.0	15.91	137.02	1.06	9.13
60.0-65.0	14.83	151.85	0.99	10.12
65.0-70.0	14.35	166.20	0.96	11.08
70.0-75.0	12.01	178.21	0.80	11.88
75.0-80.0	7.87	186.08	0.52	12.41
80.0-85.0	4.36	190.43	0.29	12.70
85.0-90.0	2.06	192.49	0.14	12.83
90.0-95.0	0.97	193.46	0.06	12.90
95.0-100.0	0.35	193.81	0.02	12.92
100.0-105.0	0.14	193.96	0.01	12.93
105.0-110.0	0.11	194.07	0.01	12.94
110.0-115.0	0.10	194.18	0.01	12.95
115.0-120.0	0.10	194.27	0.01	12.95
120.0-125.0	0.10	194.37	0.01	12.96
125.0-130.0	0.09	194.46	0.01	12.96
130.0-135.0	0.09	194.56	0.01	12.97
135.0-140.0	0.09	194.65	0.01	12.98
140.0-145.0	0.09	194.74	0.01	12.98
145.0-150.0	0.08	194.82	0.01	12.99
150.0-155.0	0.07	194.90	0.00	12.99
155.0-160.0	0.06	194.96	0.00	13.00
160.0-165.0	0.04	195.00	0.00	13.00
165.0-170.0	0.03	195.03	0.00	13.00
170.0-175.0	0.02	195.05	0.00	13.00
175.0-180.0	0.01	195.05	0.00	13.00

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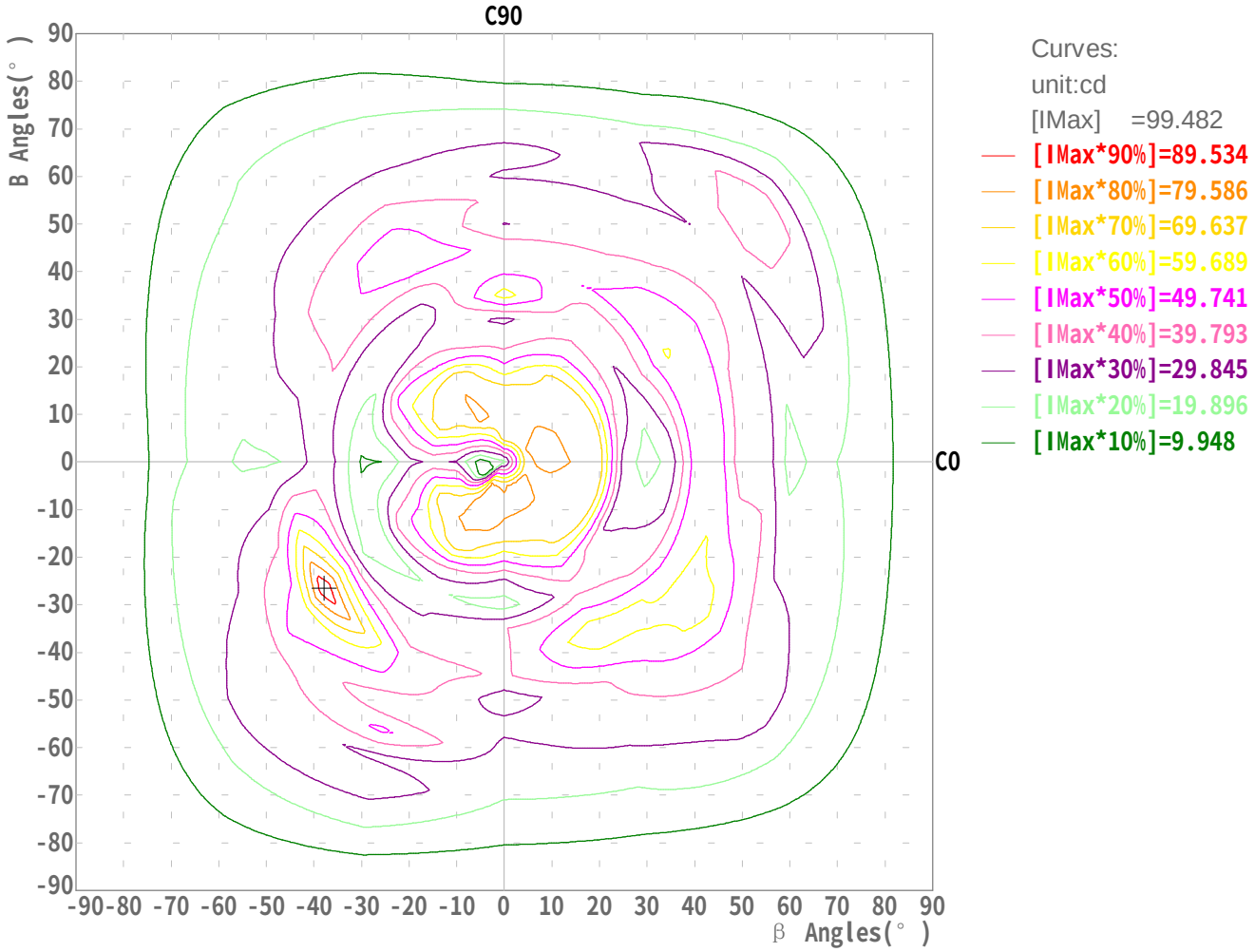
Rectangle ISO Lighting Intensity Diagram

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

ISO Lighting Intensity Curve



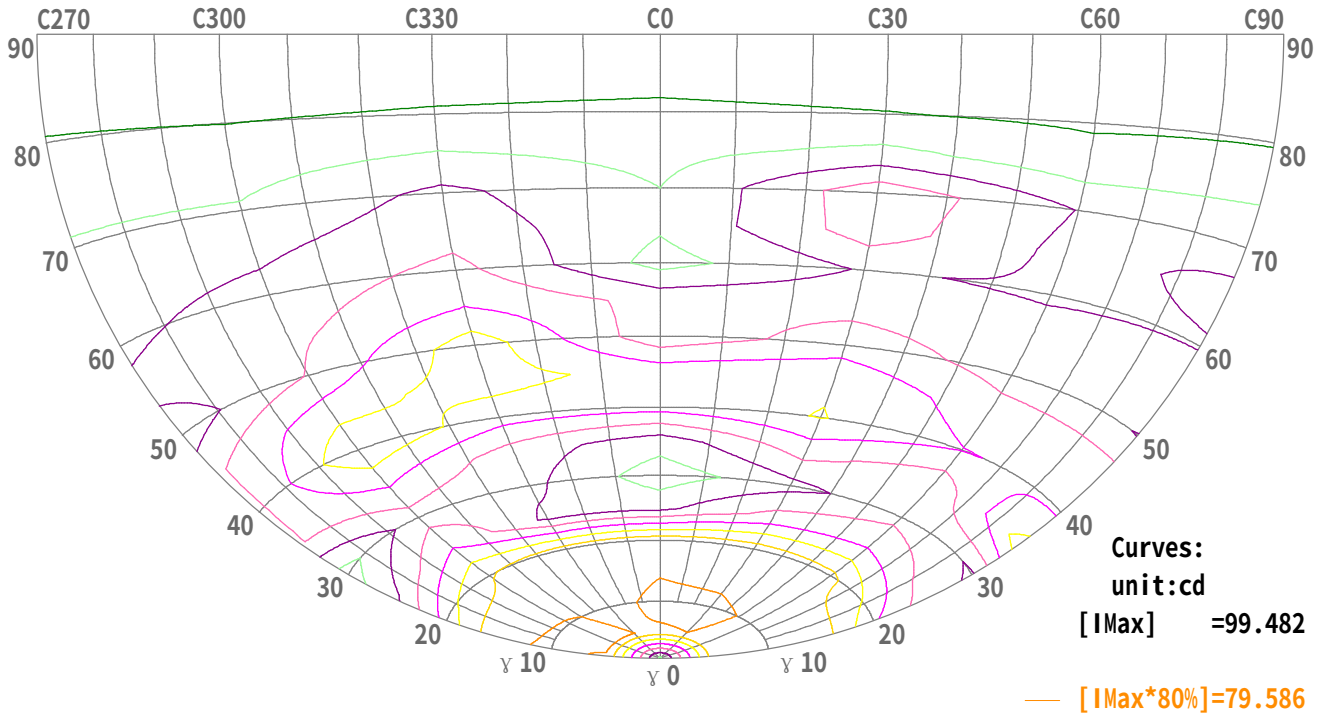
Maximum Light Intensity(cd): 99.48
Maximum Cand.@Angle: H=-37.8°,V=-26.6°

IES Indoor Report
Photometric Filename:ITB1501L-2.IES

Round ISO Lighting Intensity Diagram

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

Round ISO Light Intensity Diagram



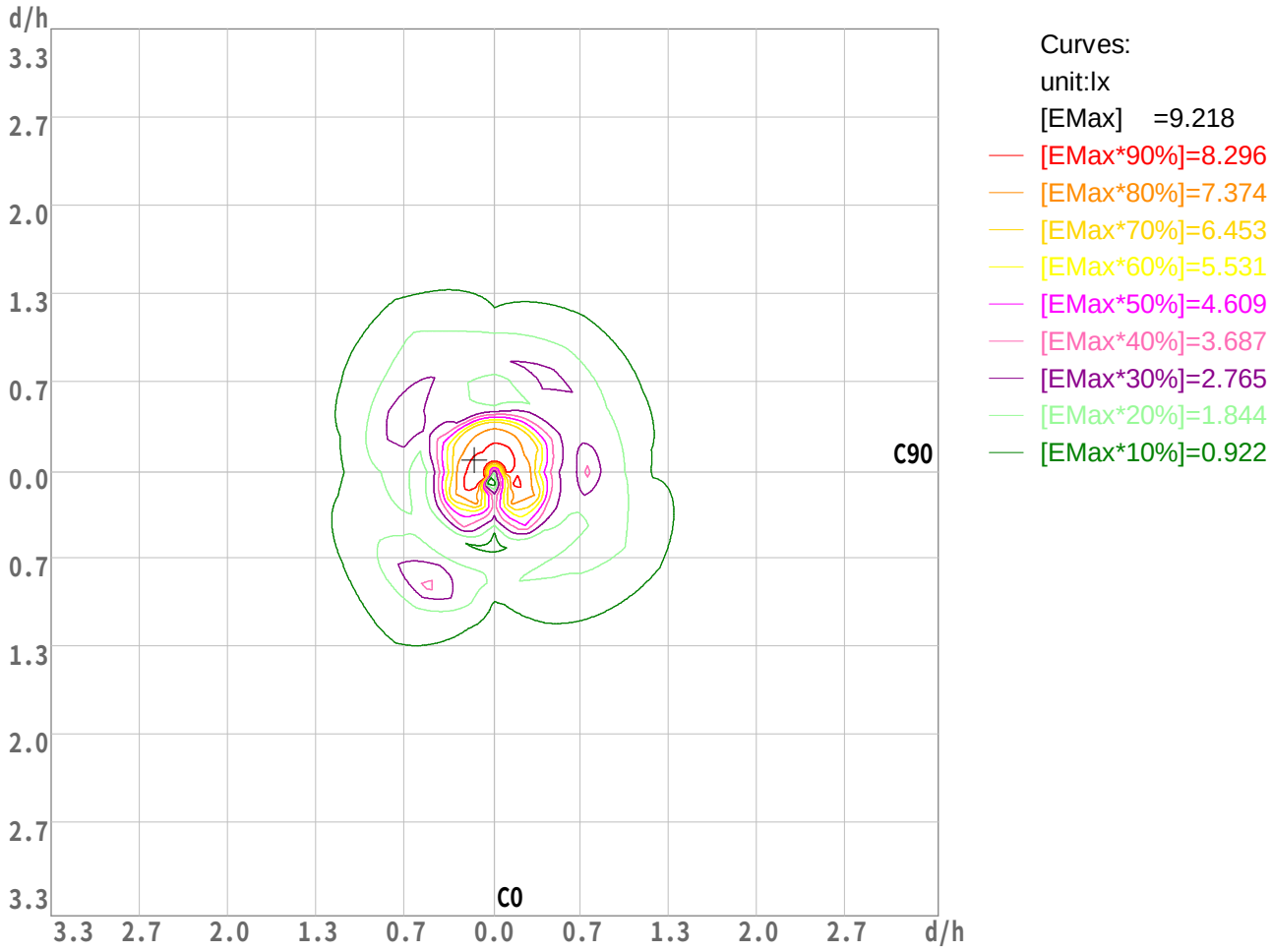
Maximum Lighting Intensity(cd): 99.48
Maximum Cand.@Angle: H=210.0° ,V=45.0°

IES Indoor Report
Photometric Filename:ITB1501L-2.IES

Plane ISO-Illuminance Diagram

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

Plane ISO-Illuminance Curve



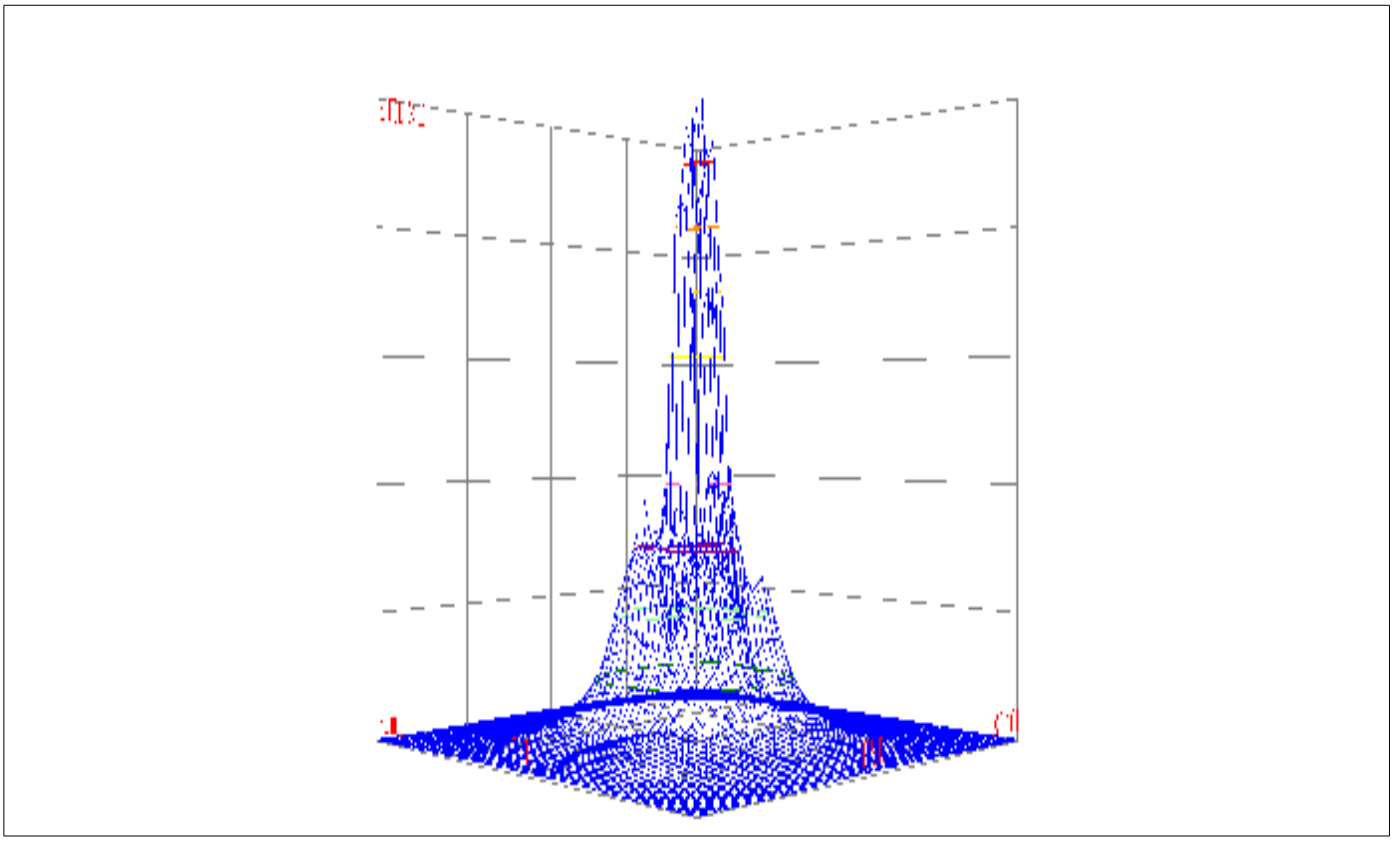
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 9.22
Working Plane Maximum Illuminance Position(d/h):H-0.2 V-0.1

IES Indoor Report
Photometric Filename:ITB1501L-2.IES

3D Plane ISO Illuminance Diagram

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

3D Plane Illuminance Modal



Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%

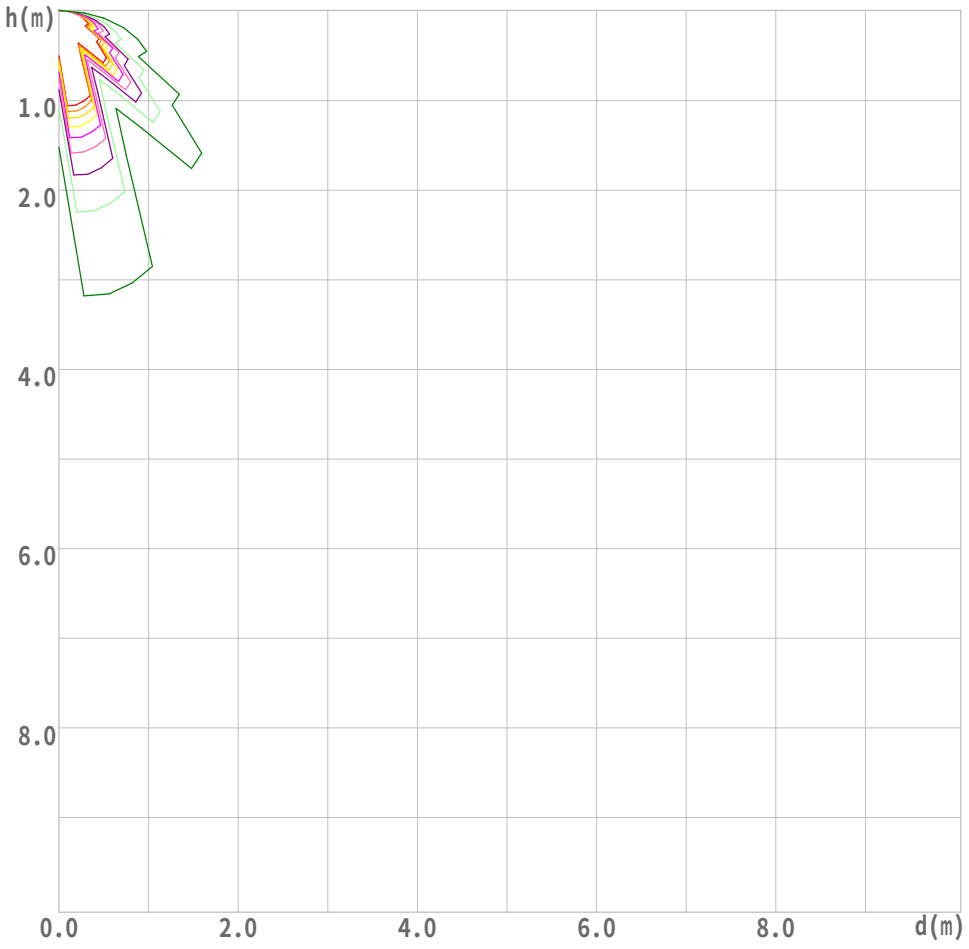
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Indoor Report
Photometric Filename:ITB1501L-2.IES

Space ISO Illuminance Diagram

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

Space ISO Illuminance Curve



Curves:
unit:lx
[EMax] =78.186
[EMax*90%]=70.367
[EMax*80%]=62.548
[EMax*70%]=54.730
[EMax*60%]=46.911
[EMax*50%]=39.093
[EMax*40%]=31.274
[EMax*30%]=23.456
[EMax*20%]=15.637
[EMax*10%]=7.819

Space Plane Maximum Illuminance and @Angle:78.19,5.0deg
Plane Maximum Lighting Intensity and @Angle:80.904cd,0eg

IES Indoor Report
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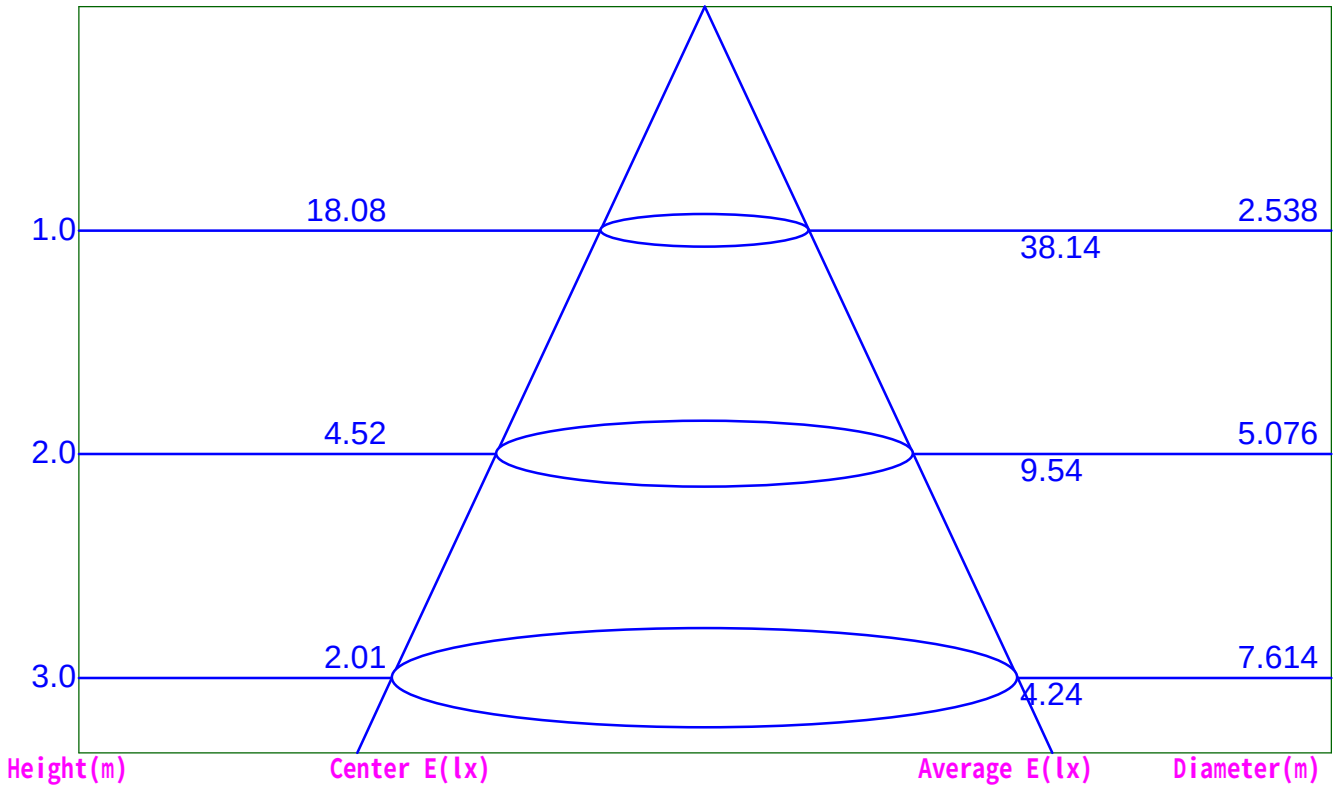
Illuminance-Distance Diagram

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

Illuminance-Distance Curve



Beam Angle:103.5

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Indoor Luminance Limiting Curves

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

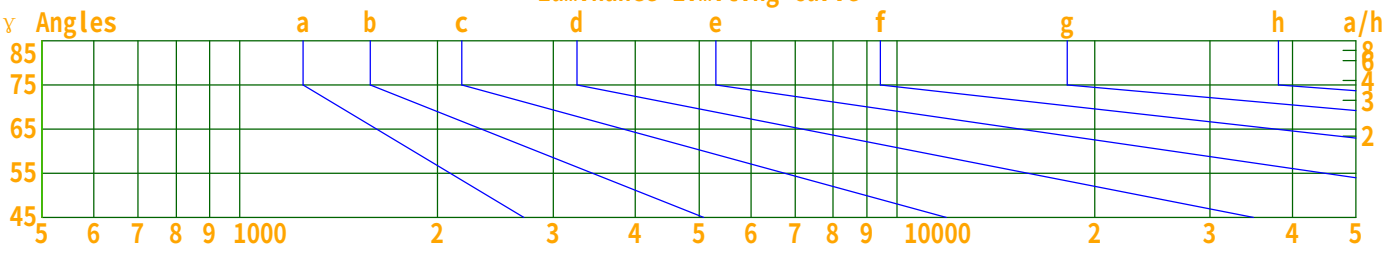
Glare Grade Table

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	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

Luminance Limiting Curve



Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000

Luminous Type: Without Luminous Side

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

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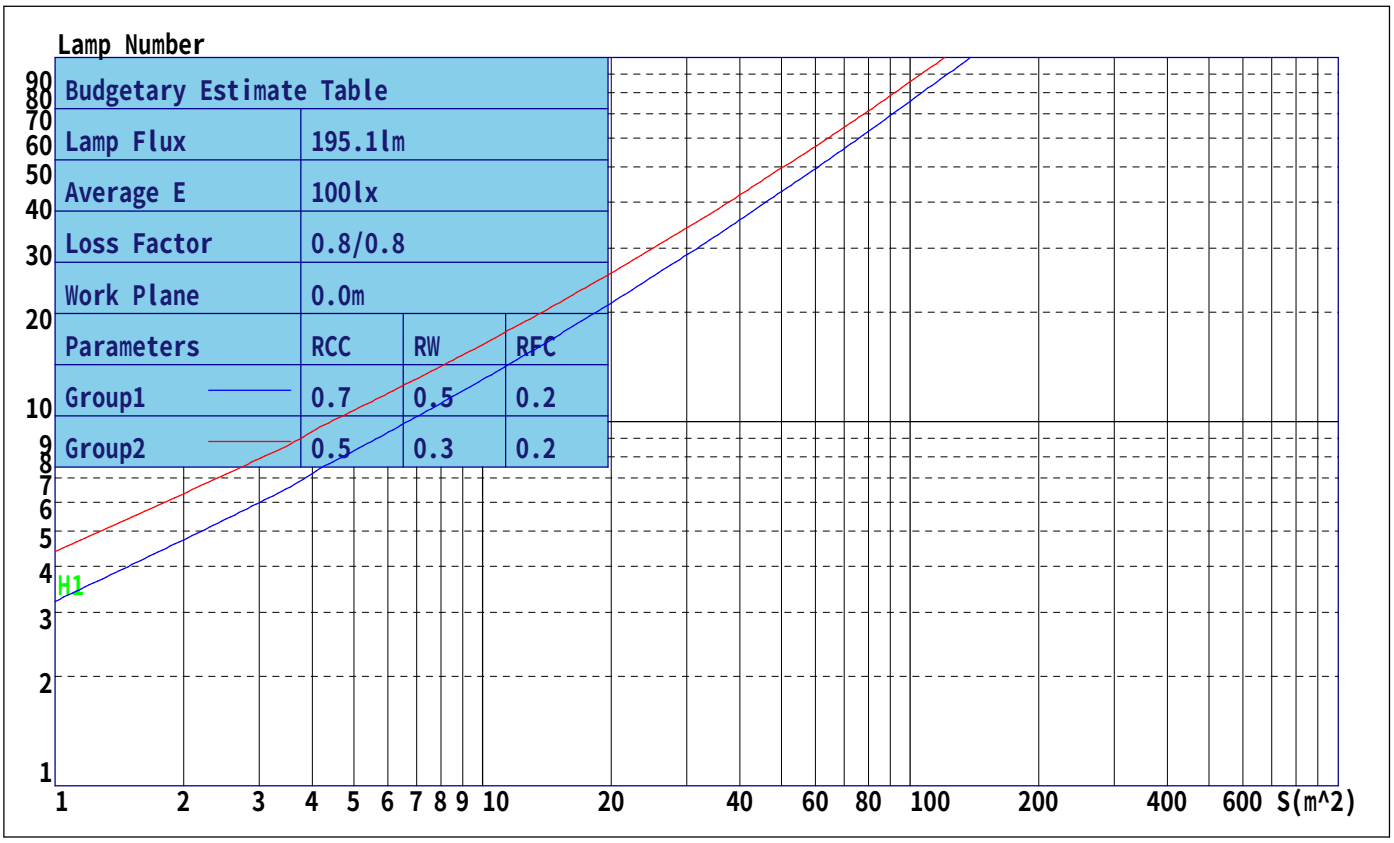
Indoor Budgetary Estimate Table

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13



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

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Indoor Coefficient of Utilization Table

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

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	15	15	15	15	15	15	15	15	14	14	14	14	14	14	13	13	13	13
1	14	13	13	12	14	13	12	12	12	12	11	12	11	11	11	11	11	10
2	13	11	10	9	12	11	10	9	11	10	9	10	9	9	10	9	9	8
3	11	10	9	8	11	10	9	8	9	8	7	9	8	7	8	8	7	7
4	10	9	7	6	10	8	7	6	8	7	6	8	7	6	7	7	6	6
5	9	8	6	5	9	7	6	5	7	6	5	7	6	5	7	6	5	5
6	9	7	6	5	8	7	6	5	6	5	5	6	5	5	6	5	5	4
7	8	6	5	4	8	6	5	4	6	5	4	6	5	4	5	5	4	4
8	7	6	4	4	7	6	4	4	5	4	4	5	4	4	5	4	4	3
9	7	5	4	3	7	5	4	3	5	4	3	5	4	3	5	4	3	3
10	7	5	4	3	6	5	4	3	5	4	3	4	4	3	4	3	3	3

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Unified Glare Rating Table

Lum.Name: ITB1501L-2	Lum.Catelog:	Test ID:
Lamp Name: ITB1501L-2	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2015/07/13

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	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=4H	Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=8H	Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=12H	Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
	Y=8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
Variations with the objerver position at spacings											
S=1.0H		-1.$/-1.$					-1.$/-1.$				
S=1.5H		-1.$/-1.$					-1.$/-1.$				
S=2.0H		-1.$/-1.$					-1.$/-1.$				

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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	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08
γ 5.0	79.08	79.50	77.96	75.97	50.71	32.54	5.09	0.96	79.44	79.08	81.22	79.62
γ 10.0	80.90	81.84	78.15	76.74	81.50	58.08	28.83	58.95	86.86	80.67	80.39	77.96
γ 15.0	79.23	77.06	72.57	74.82	79.99	75.28	32.17	76.28	81.25	77.93	74.15	76.35
γ 20.0	75.90	75.20	72.29	51.63	78.56	63.89	26.87	52.91	76.31	53.73	69.07	74.25
γ 25.0	26.92	43.92	49.84	35.56	42.71	55.20	10.14	46.67	40.17	28.24	49.71	27.77
γ 30.0	14.27	26.57	36.55	28.30	32.86	21.42	8.96	14.21	20.96	15.07	34.95	32.39
γ 35.0	24.01	43.91	32.70	64.30	24.48	23.01	29.47	20.16	29.08	39.30	50.88	35.12
γ 40.0	53.52	60.19	50.10	47.96	37.79	41.41	33.47	60.61	32.30	37.56	68.85	54.25
γ 45.0	55.63	58.43	44.17	45.34	58.75	40.87	20.59	99.48	45.57	38.42	55.79	63.59
γ 50.0	32.64	45.11	36.05	29.48	56.67	39.35	18.76	58.35	48.01	24.15	40.28	65.58
γ 55.0	36.08	37.08	34.07	38.74	44.64	32.24	18.31	50.52	31.56	32.46	37.12	50.11
γ 60.0	16.14	30.78	28.46	29.06	35.82	29.04	22.08	35.55	52.12	27.97	33.18	42.87
γ 65.0	21.39	44.97	27.07	32.02	28.67	22.99	20.60	34.24	28.08	25.29	27.77	35.90
γ 70.0	19.88	46.51	29.57	26.72	26.18	20.86	18.42	31.93	37.01	21.01	20.87	32.27
γ 75.0	16.50	22.77	14.53	18.45	19.60	19.28	9.25	21.15	26.31	15.55	16.13	20.55
γ 80.0	11.43	10.33	8.61	9.15	13.31	12.65	5.76	12.85	17.26	10.78	9.79	11.05
γ 85.0	7.34	5.49	3.13	4.53	7.35	6.00	1.57	5.52	7.21	3.54	2.24	5.45
γ 90.0	4.38	3.88	1.13	2.59	2.74	3.26	0.35	3.46	3.02	1.80	0.67	3.57
γ 95.0	0.19	1.91	0.40	1.46	0.39	1.85	0.13	1.75	0.53	1.00	0.31	1.77
γ 100.0	0.18	0.43	0.32	0.41	0.27	0.45	0.12	0.32	0.25	0.32	0.25	0.41
γ 105.0	0.09	0.29	0.27	0.27	0.24	0.26	0.12	0.21	0.23	0.22	0.23	0.27
γ 110.0	0.11	0.26	0.27	0.21	0.24	0.26	0.12	0.21	0.23	0.19	0.23	0.25
γ 115.0	0.10	0.25	0.24	0.17	0.22	0.27	0.13	0.20	0.22	0.14	0.21	0.25
γ 120.0	0.11	0.24	0.25	0.19	0.24	0.28	0.13	0.22	0.22	0.13	0.21	0.23
γ 125.0	0.12	0.22	0.25	0.19	0.25	0.25	0.14	0.21	0.23	0.16	0.23	0.25
γ 130.0	0.18	0.23	0.27	0.19	0.28	0.25	0.16	0.23	0.26	0.17	0.25	0.23
γ 135.0	0.17	0.25	0.28	0.19	0.30	0.26	0.18	0.24	0.28	0.19	0.27	0.26
γ 140.0	0.20	0.29	0.29	0.20	0.30	0.31	0.22	0.27	0.30	0.18	0.28	0.28
γ 145.0	0.23	0.32	0.31	0.20	0.31	0.35	0.24	0.28	0.29	0.20	0.28	0.31
γ 150.0	0.26	0.38	0.32	0.20	0.29	0.38	0.29	0.34	0.26	0.20	0.26	0.34
γ 155.0	0.29	0.35	0.26	0.23	0.24	0.35	0.28	0.34	0.24	0.22	0.25	0.48
γ 160.0	0.34	0.35	0.23	0.24	0.25	0.33	0.31	0.31	0.25	0.23	0.23	0.38
γ 165.0	0.32	0.30	0.22	0.24	0.24	0.23	0.26	0.23	0.24	0.23	0.22	0.31
γ 170.0	0.26	0.24	0.24	0.23	0.23	0.24	0.25	0.24	0.23	0.23	0.21	0.23
γ 175.0	0.23	0.25	0.23	0.24	0.22	0.23	0.24	0.22	0.22	0.21	0.22	0.22
γ 180.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23