

IES Indoor Report
Photometric Filename:KARLIN4FTCCT-6K.IES

Indoor Luminaire Photometric Data

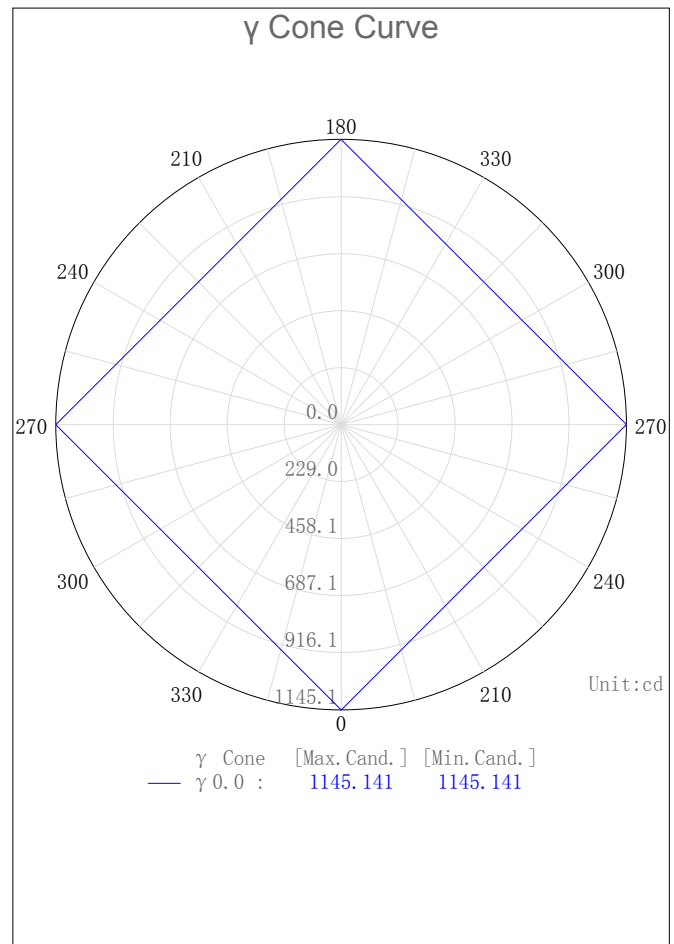
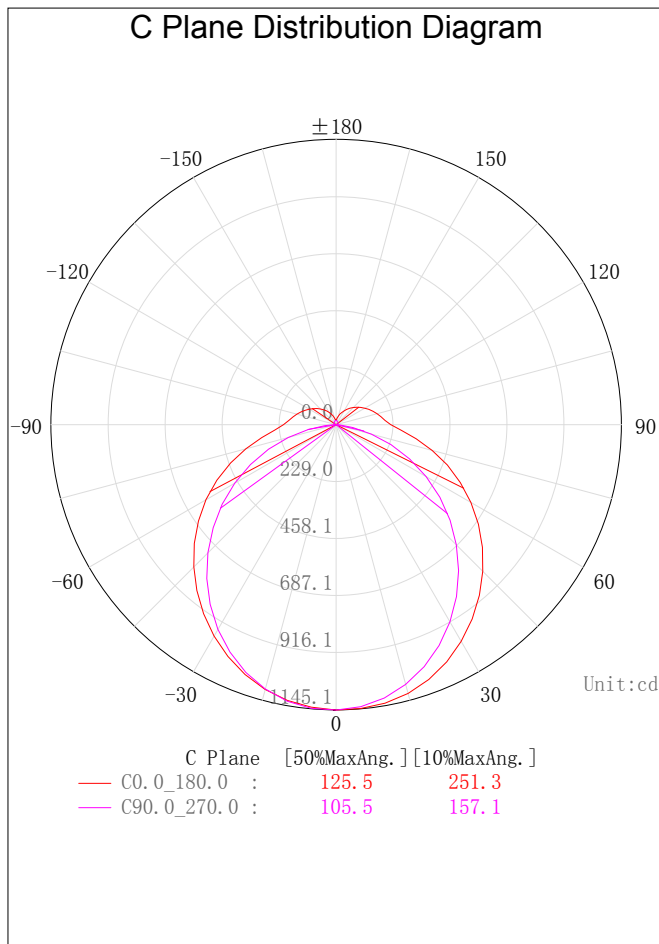
Description Information

Lum. Name: KARLIN4FTCCT-6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Date: 2022/06/28
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 0.060m*1.200m*0.065m	Lum. Area (m2): 0.150	Lum. W (kg): 2.000
Test System: C, γ	Test Step: C=90.0 γ =5.0	Temp. (°C): 25
		Humidity(%):

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 3905.900	Luminaire Flux: 3905.901lm	Field Angle(10%Imax): 251.3	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 3484.209lm 89.20%	
Rated Voltage(V):	Luminaire EER(lm/W): 113.445	Up Lumens&Percent: 421.692lm 10.80%	
Tested Power(W): 34.430	Max. Cand. (cd): 1145.141	S/MH: C0_a180=1.289 C90_270=1.212	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ =0.0	CIE Type: General Diffuse	
Tested Electric:U=238.7V, I=0.145A, PF=0.000	Beam Angle(50%Imax): 125.5	ErP ϕ use(120°): 2566.989lm	
Lamp Size (W*L*H): 0.060m*1.200m*0.065m	Left=-62.0 Right=63.5	IRF: 107.943%	

Lighting Distribution Diagram



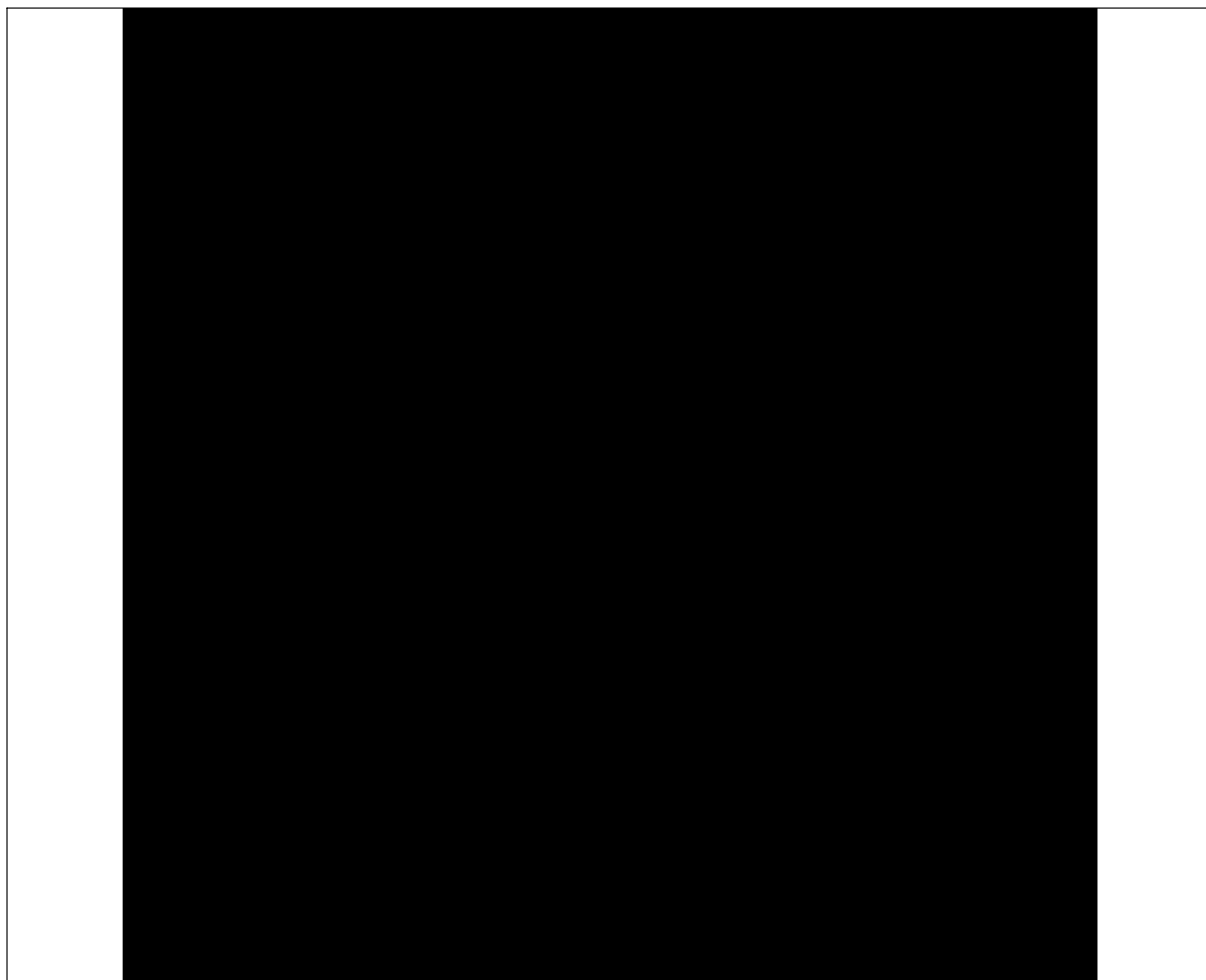
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3D Light Intensity Distribution Modal

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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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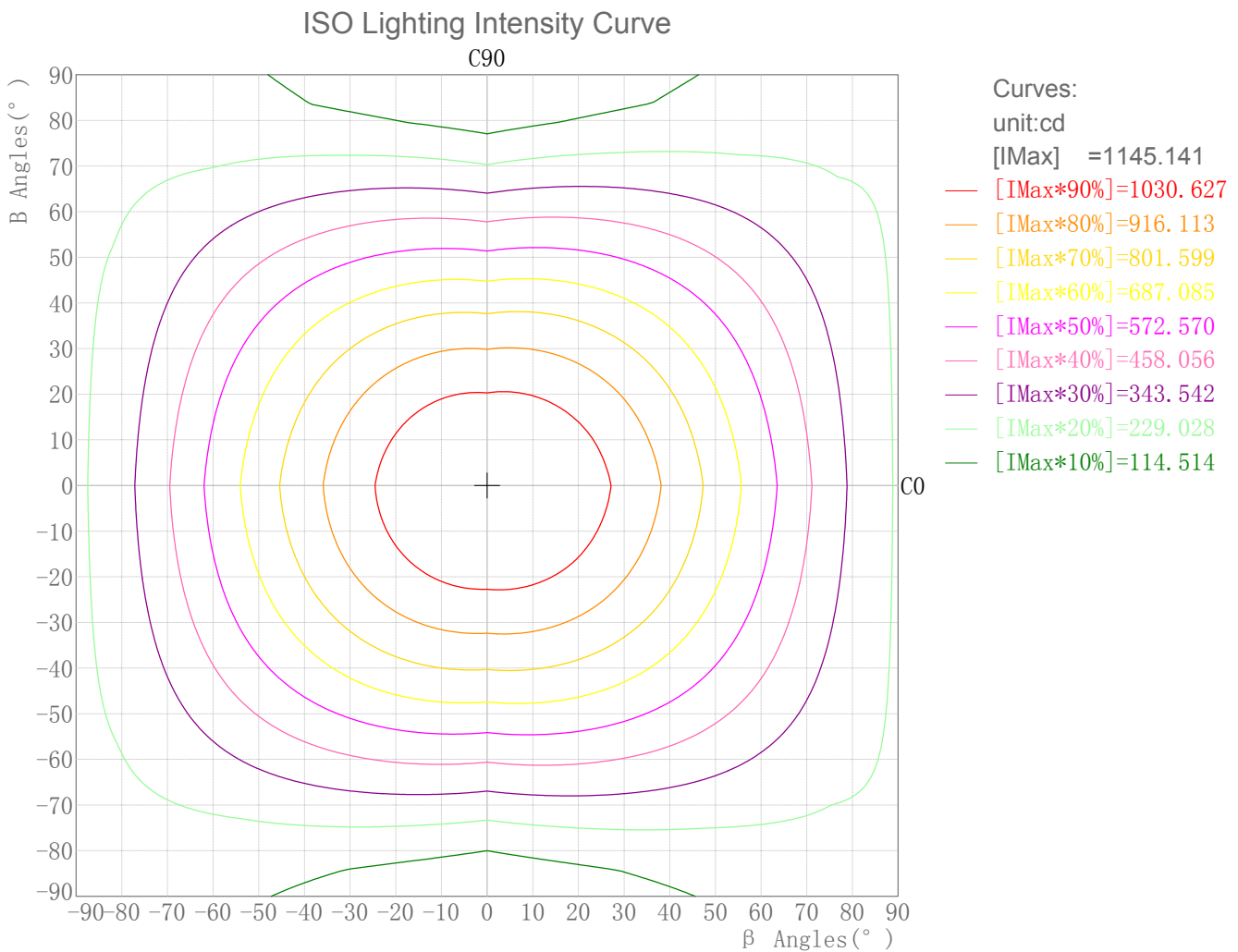
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Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	27.32	27.32	0.70	0.70
5.0-10.0	81.04	108.37	2.07	2.77
10.0-15.0	131.91	240.28	3.38	6.15
15.0-20.0	178.06	418.33	4.56	10.71
20.0-25.0	217.90	636.23	5.58	16.29
25.0-30.0	250.20	886.43	6.41	22.69
30.0-35.0	274.14	1160.56	7.02	29.71
35.0-40.0	289.27	1449.84	7.41	37.12
40.0-45.0	295.51	1745.35	7.57	44.68
45.0-50.0	292.95	2038.30	7.50	52.19
50.0-55.0	281.93	2320.22	7.22	59.40
55.0-60.0	262.96	2583.19	6.73	66.14
60.0-65.0	236.79	2819.98	6.06	72.20
65.0-70.0	204.49	3024.47	5.24	77.43
70.0-75.0	167.70	3192.17	4.29	81.73
75.0-80.0	129.17	3321.34	3.31	85.03
80.0-85.0	93.77	3415.11	2.40	87.43
85.0-90.0	69.10	3484.21	1.77	89.20
90.0-95.0	57.59	3541.79	1.47	90.68
95.0-100.0	52.22	3594.02	1.34	92.02
100.0-105.0	47.69	3641.71	1.22	93.24
105.0-110.0	43.34	3685.05	1.11	94.35
110.0-115.0	39.10	3724.14	1.00	95.35
115.0-120.0	34.84	3758.98	0.89	96.24
120.0-125.0	30.46	3789.44	0.78	97.02
125.0-130.0	26.15	3815.59	0.67	97.69
130.0-135.0	22.00	3837.59	0.56	98.25
135.0-140.0	18.22	3855.81	0.47	98.72
140.0-145.0	14.75	3870.55	0.38	99.10
145.0-150.0	11.50	3882.06	0.29	99.39
150.0-155.0	8.70	3890.76	0.22	99.61
155.0-160.0	6.36	3897.12	0.16	99.78
160.0-165.0	4.32	3901.44	0.11	99.89
165.0-170.0	2.67	3904.11	0.07	99.95
170.0-175.0	1.38	3905.49	0.04	99.99
175.0-180.0	0.41	3905.90	0.01	100.00

Rectangle ISO Lighting Intensity Diagram

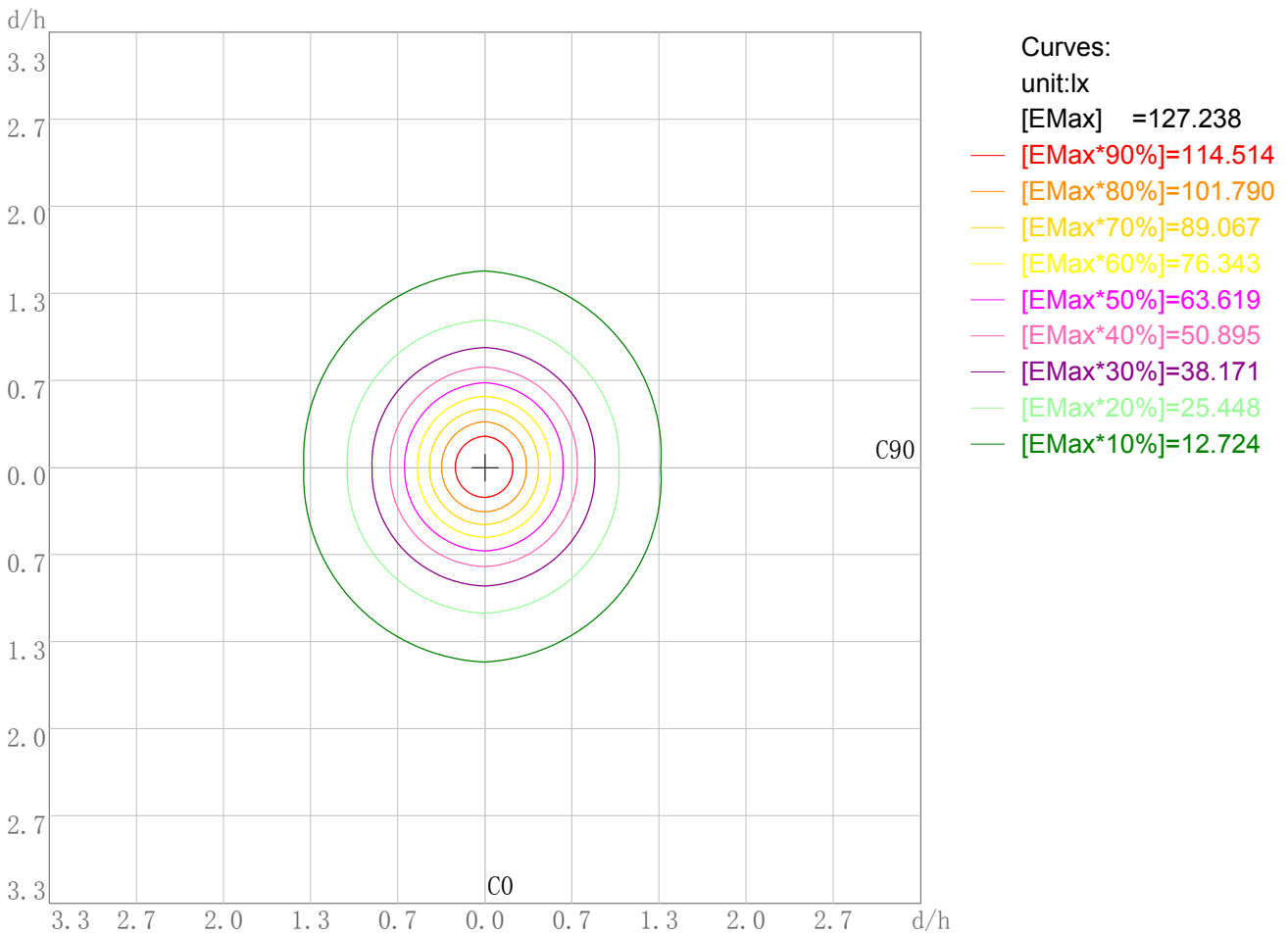
Lum. Name: KARLIN4FTCCT-6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/28



Plane ISO-Illuminance Diagram

Lum. Name: KARLIN4FTCCT-6K	Lum. Catalog: LED BATTEN	Test ID:
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Plane ISO-Illuminance Curve

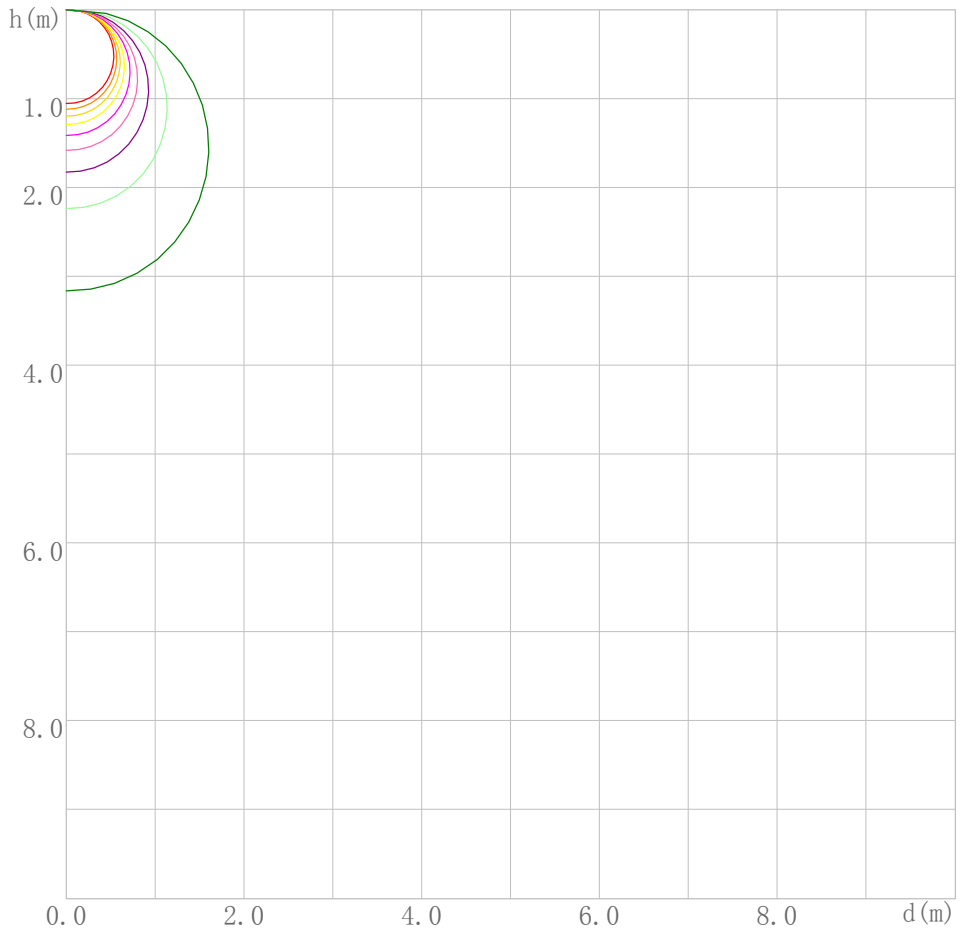


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 127.24
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

Space ISO Illuminance Diagram

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Space ISO Illuminance Curve

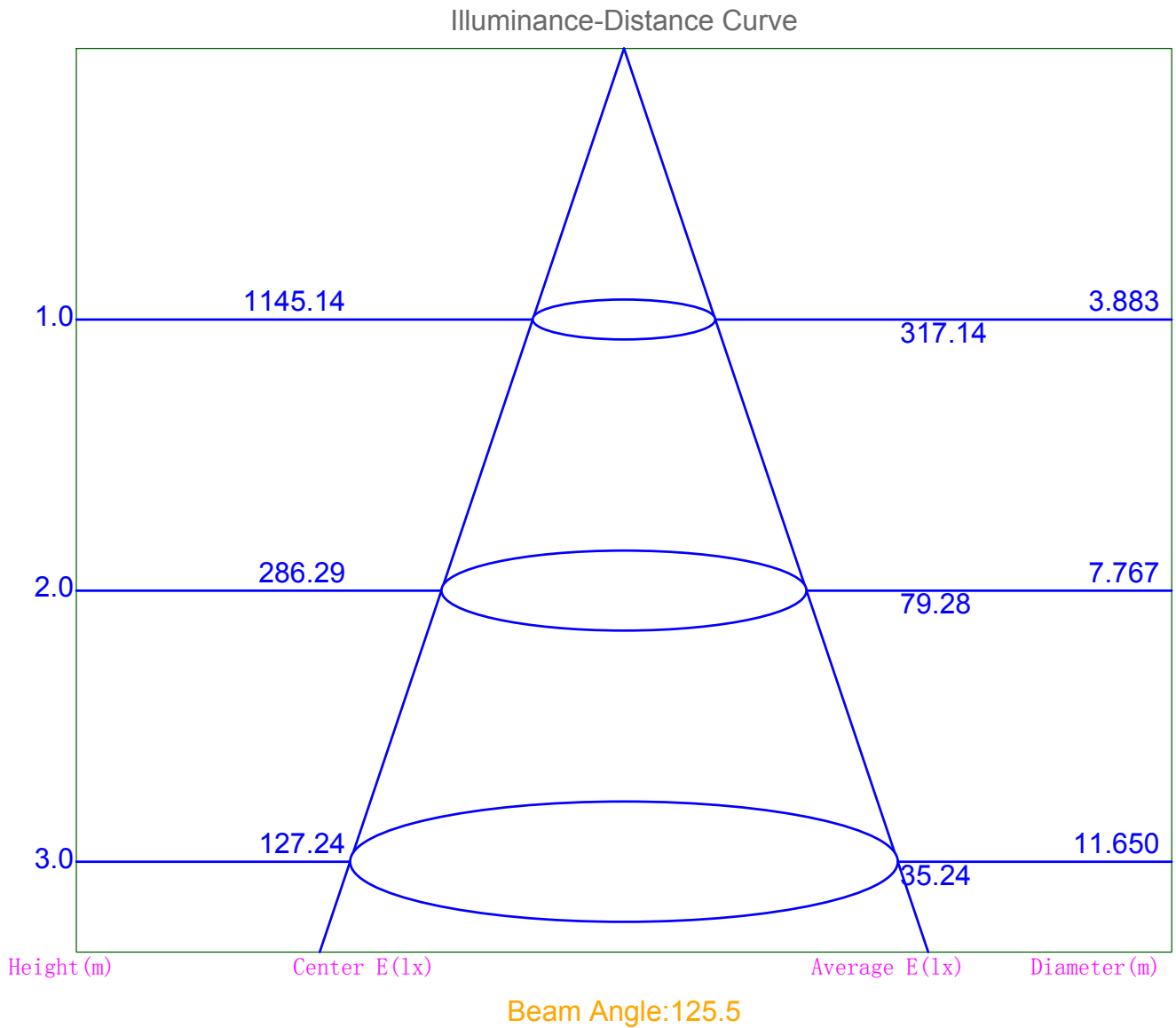


- Curves:
unit:lx
[E_{Max}] =1145.141
- [E_{Max}*90%]=1030.627
 - [E_{Max}*80%]=916.113
 - [E_{Max}*70%]=801.599
 - [E_{Max}*60%]=687.085
 - [E_{Max}*50%]=572.570
 - [E_{Max}*40%]=458.056
 - [E_{Max}*30%]=343.542
 - [E_{Max}*20%]=229.028
 - [E_{Max}*10%]=114.514

Space Plane Maximum Illuminance and @Angle:1145.14,0.0deg
Plane Maximum Lighting Intensity and @Angle:1145.141cd,0deg

Illuminance-Distance Diagram

Lum. Name: KARLIN4FTCCT-6K	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/28



Indoor Luminance Limiting Curves

Lum. Name: KARLIN4FTCCT-6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/28

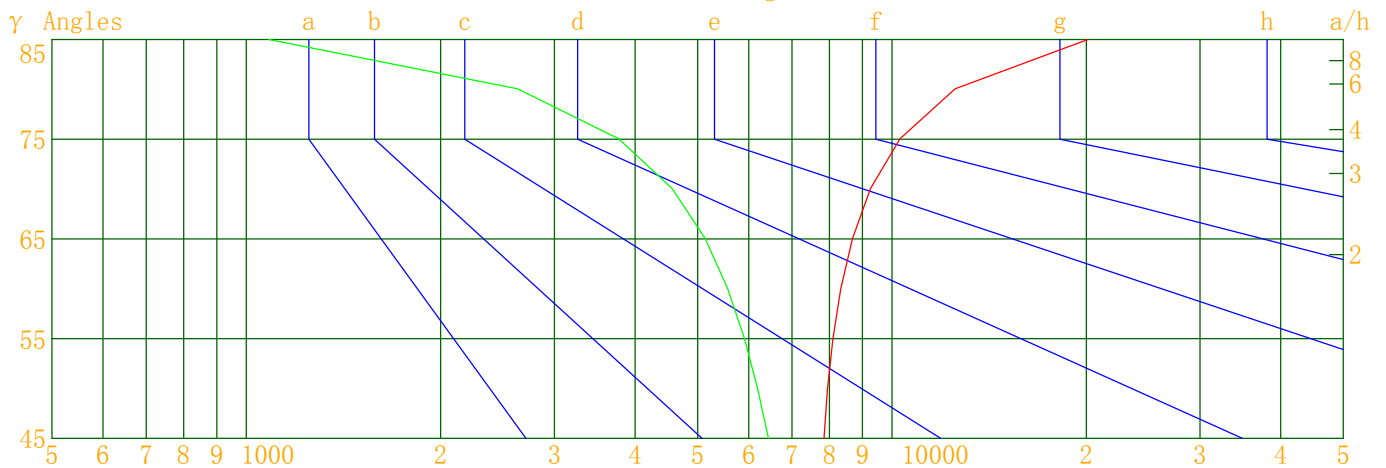
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
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	7847	7948	8102	8331	8685	9260	10291	12525	20105
C90	6438	6192	5908	5566	5137	4567	3772	2632	1084

Luminance Limiting Curve



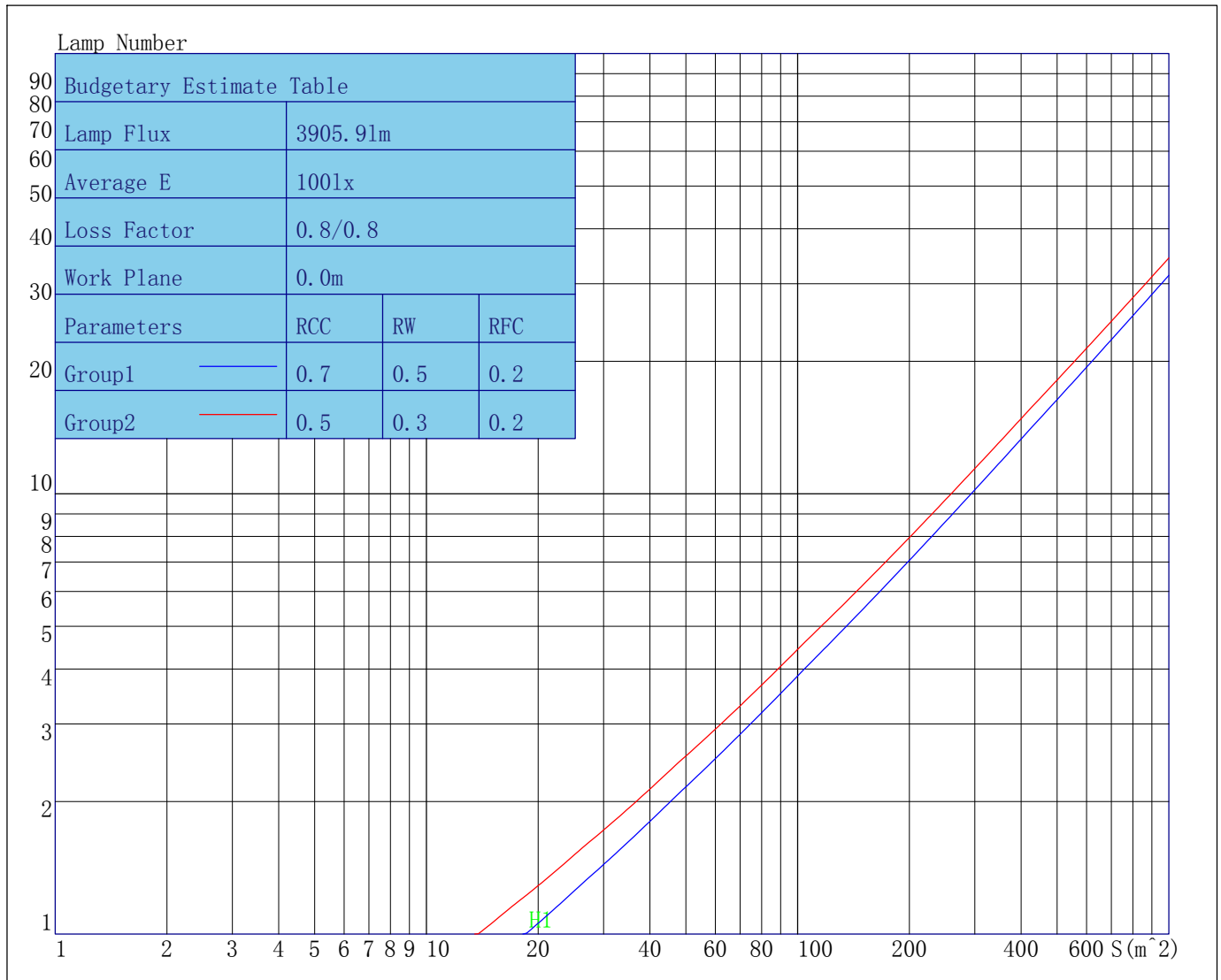
Luminous Size: Length(m)=1.200 Width(m)=0.060 Height(m)=0.065 Area(m²)=0.150000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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Indoor Budgetary Estimate Table

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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: KARLIN4FTCCT-6K	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/28

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	116	116	116	116	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	105	100	95	91	101	96	92	88	90	87	84	84	82	79	79	77	75	72
2	95	86	79	73	91	84	77	71	78	73	68	73	69	65	69	65	62	59
3	86	76	67	60	83	73	65	59	69	62	57	64	59	54	60	56	52	49
4	79	67	58	51	76	65	56	50	61	54	48	57	51	46	54	49	44	42
5	73	59	50	44	70	58	49	43	54	47	41	51	45	40	48	43	39	36
6	67	53	44	38	64	52	43	37	49	42	36	46	40	35	44	38	34	31
7	62	48	40	33	60	47	39	33	44	37	32	42	36	31	40	34	30	28
8	58	44	35	30	55	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	27	52	39	32	26	37	30	26	36	29	25	34	28	24	22
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	31	26	22	20

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Unified Glare Rating Table

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Manufacture:	Test Machine:GON-2000	Test Date: 2022/06/28

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	18.5	21.8	19.7	23.1	24.3	16.6	19.9	17.8	21.1	22.4
Y=3H	24.5	27.8	25.7	29.1	30.3	20.6	23.9	21.8	25.1	26.4
Y=4H	28.3	31.3	29.6	32.5	33.8	22.8	25.8	24.1	27.0	28.3
Y=6H	31.8	34.6	33.1	35.9	37.2	24.0	26.8	25.2	28.1	29.3
Y=8H	33.7	36.5	34.9	37.7	39.0	24.3	27.1	25.5	28.4	29.6
Y=12H	35.7	38.5	37.0	39.8	41.0	24.4	27.2	25.7	28.5	29.7
X=4H Y=2H	19.7	22.6	20.9	23.9	25.1	18.9	21.9	20.2	23.1	24.4
Y=3H	25.9	28.9	27.2	30.1	31.4	23.3	26.2	24.5	27.5	28.7
Y=4H	28.3	30.1	29.8	31.6	33.1	24.1	26.0	25.7	27.5	29.0
Y=6H	32.4	34.0	33.9	35.6	37.1	26.0	27.6	27.5	29.1	30.6
Y=8H	34.7	36.3	36.2	37.8	39.3	26.6	28.2	28.1	29.7	31.2
Y=12H	36.3	37.7	38.0	39.3	40.9	26.1	27.4	27.7	29.1	30.7
X=8H Y=4H	28.6	30.2	30.2	31.7	33.2	25.3	26.9	26.9	28.4	29.9
Y=6H	32.1	33.3	33.8	34.9	36.6	26.8	28.0	28.5	29.6	31.2
Y=8H	34.2	35.1	36.0	36.9	38.6	27.4	28.3	29.2	30.1	31.7
Y=12H	37.3	38.1	39.0	39.9	41.5	28.3	29.1	30.0	30.9	32.5
X=12H Y=4H	27.7	29.1	29.4	30.7	32.3	24.7	26.0	26.4	27.7	29.3
Y=6H	31.7	32.7	33.5	34.4	36.1	26.8	27.8	28.6	29.5	31.2
Y=8H	34.3	35.2	36.1	36.9	38.6	28.1	28.9	29.9	30.7	32.4
Variations with the objerver position at spacings										
S=1.0H	2.1/-2.1					2.3/-0.2				
S=1.5H	-2.1/-20.6					-0.2/-16.5				
S=2.0H	-2.1/-20.6					-0.2/-16.5				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	1145.14	1145.14	1145.14	1145.14
γ 5.0	1143.62	1136.45	1138.53	1142.99
γ 10.0	1135.03	1114.14	1124.15	1126.98
γ 15.0	1116.69	1079.37	1100.16	1098.37
γ 20.0	1088.10	1033.71	1067.47	1058.31
γ 25.0	1050.28	977.97	1026.82	1007.53
γ 30.0	1004.40	913.75	979.51	947.98
γ 35.0	951.85	842.33	926.42	880.19
γ 40.0	894.31	764.98	868.78	806.37
γ 45.0	832.30	682.90	807.17	727.17
γ 50.0	766.35	597.03	742.26	643.88
γ 55.0	697.03	508.26	674.10	557.55
γ 60.0	624.84	417.45	602.30	469.06
γ 65.0	550.54	325.68	527.40	378.92
γ 70.0	475.07	234.31	450.28	288.15
γ 75.0	399.52	146.45	373.91	198.73
γ 80.0	326.25	68.56	302.93	114.68
γ 85.0	262.83	14.18	246.24	44.66
γ 90.0	218.72	3.97	211.24	7.63
γ 95.0	197.02	4.97	190.56	7.17
γ 100.0	183.18	4.17	175.93	5.78
γ 105.0	170.17	5.08	162.30	6.27
γ 110.0	157.36	6.11	149.15	6.81
γ 115.0	144.64	8.36	136.40	8.80
γ 120.0	132.26	9.00	124.00	9.80
γ 125.0	120.15	9.76	111.84	10.29
γ 130.0	108.26	10.40	100.00	10.33
γ 135.0	96.89	11.08	88.66	9.90
γ 140.0	85.97	11.80	77.91	11.30
γ 145.0	73.83	12.41	67.59	12.77
γ 150.0	62.51	13.34	56.40	13.64
γ 155.0	53.02	14.15	47.49	14.50
γ 160.0	44.47	14.90	38.91	15.18
γ 165.0	34.54	15.45	30.51	15.89
γ 170.0	27.89	15.97	23.22	16.30
γ 175.0	20.78	16.31	17.73	16.56
γ 180.0	16.16	16.16	16.16	16.16