

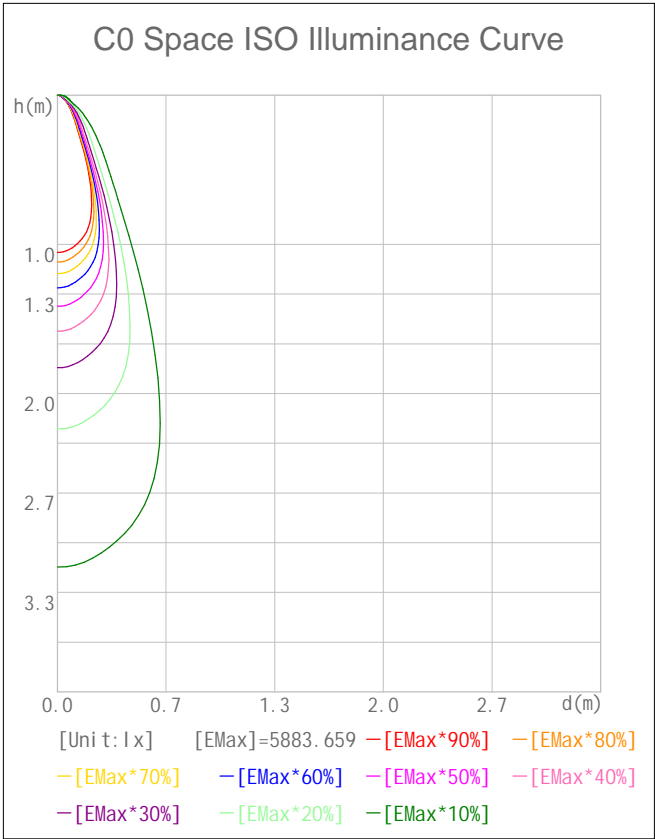
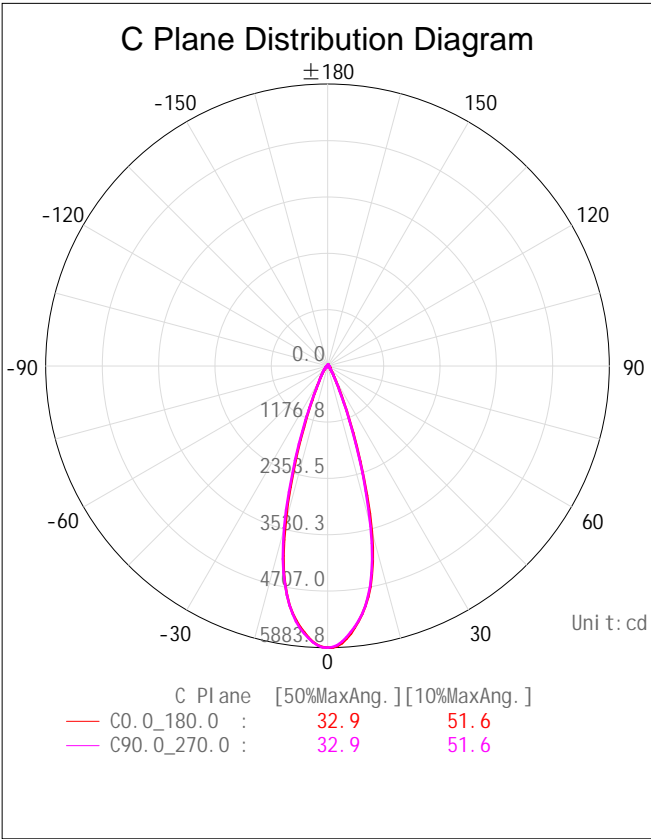
Indoor Luminaire Photometric Data

Description Information

Luminary Name: AT10031		Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204		Lamp Catalog: C0B	Test Date: 2017/05/23
Manufacture:		Shld. Ang(°): 36	Test Machine: GON-2000
Test Lab:		Frequency(Hz): 50	Lamp CCT(K): 3000 Ra: 90
Lum. Size(W*L*H): 0.200m*-0.200m*0.000m		Lum. Area(m2): 0.031	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=60.0 γ=1.0	Temp. (°C): 25	Humidity(%): 50.0

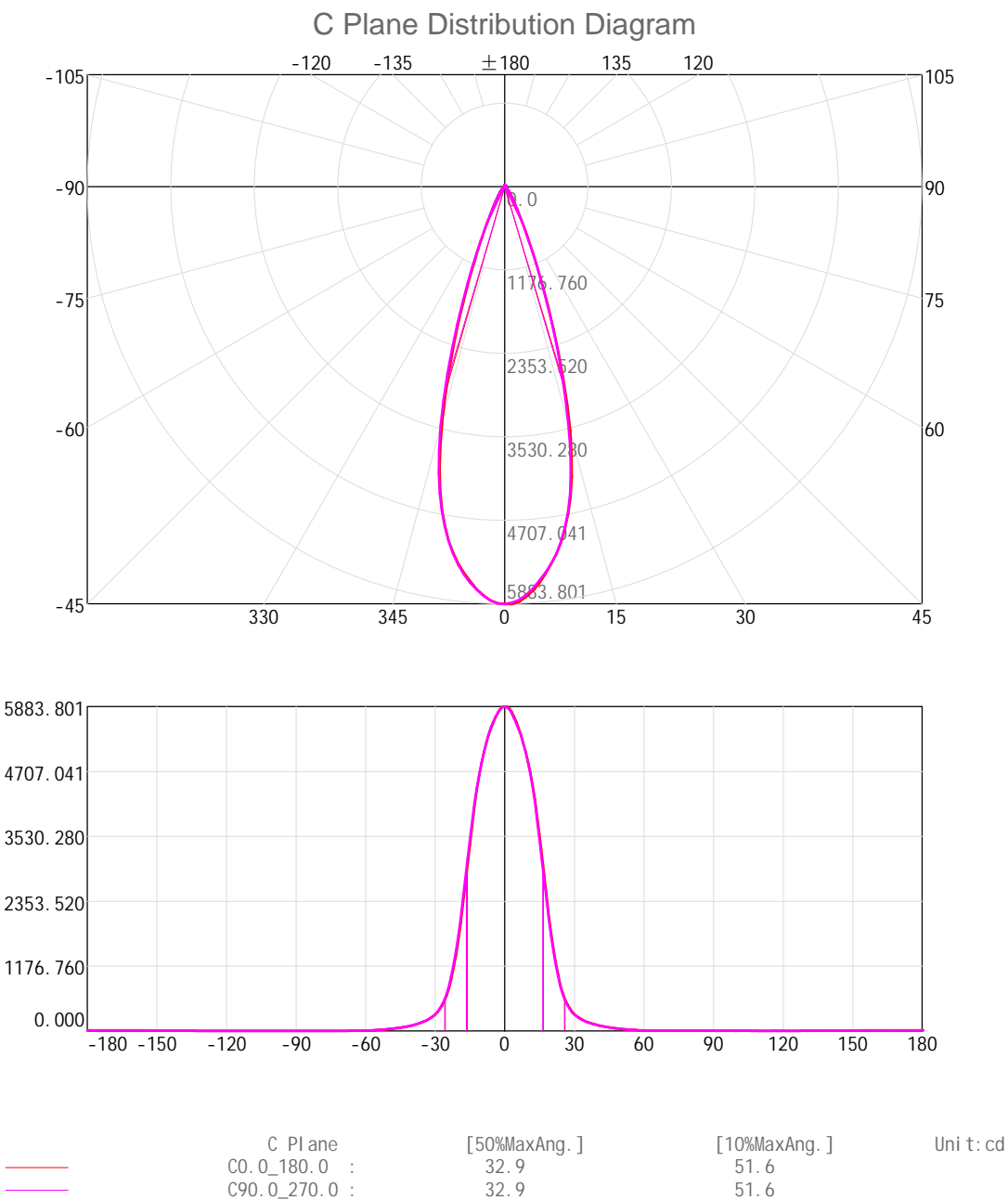
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm):	2314.000	Luminary Flux(lm):	2050.792
Rated Power(W):	25	Luminary Efficiency:	88.63%
Rated Voltage(V):	220	Luminary EER(lm/W):	82.032
Tested Power(W):	25.000	Max. Candela(cd):	5883.801
Lamps' Inside:	1	Max Cand@Ang. (°):	C=0.0 γ=1.0
Tested Electrics(V, A, pf):	220.0, 0.108, 0.964	Beam Angle(50%Imax):	32.9(°)
Lamp Size(W*L*H): 0.200m*-0.200m*0.000m		Left=-16.2°, Right=16.7°	IRF(%): 616.355



2D Plane Light Intensity Distribution Curve

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



3D Light Intensity Distribution Modal

Lum. Name: AT10031	Lum. Catel og:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catel og: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

3D Light Intensity Distribution Modal



Curves:

View Angles:

3D Model

Orient:0

Fixture

Tilt:0

Vert. HUD

Roll:0

Hori. HUD

Spin:0

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	5.63	5.63	0.24	0.24	44.0-45.0	5.45	1922.73	0.24	83.09
1.0-2.0	16.80	22.43	0.73	0.97	45.0-46.0	5.05	1927.78	0.22	83.31
2.0-3.0	27.76	50.19	1.20	2.17	46.0-47.0	4.67	1932.45	0.20	83.51
3.0-4.0	38.36	88.55	1.66	3.83	47.0-48.0	4.29	1936.74	0.19	83.70
4.0-5.0	48.53	137.08	2.10	5.92	48.0-49.0	3.93	1940.67	0.17	83.87
5.0-6.0	58.21	195.29	2.52	8.44	49.0-50.0	3.60	1944.27	0.16	84.02
6.0-7.0	67.33	262.62	2.91	11.35	50.0-51.0	3.30	1947.57	0.14	84.16
7.0-8.0	75.77	338.39	3.27	14.62	51.0-52.0	3.05	1950.62	0.13	84.30
8.0-9.0	83.37	421.77	3.60	18.23	52.0-53.0	2.83	1953.45	0.12	84.42
9.0-10.0	89.92	511.69	3.89	22.11	53.0-54.0	2.63	1956.09	0.11	84.53
10.0-11.0	95.26	606.95	4.12	26.23	54.0-55.0	2.43	1958.52	0.11	84.64
11.0-12.0	99.23	706.18	4.29	30.52	55.0-56.0	2.16	1960.68	0.09	84.73
12.0-13.0	101.50	807.68	4.39	34.90	56.0-57.0	1.84	1962.52	0.08	84.81
13.0-14.0	101.85	909.53	4.40	39.31	57.0-58.0	1.59	1964.10	0.07	84.88
14.0-15.0	100.19	1009.72	4.33	43.64	58.0-59.0	1.42	1965.53	0.06	84.94
15.0-16.0	96.53	1106.26	4.17	47.81	59.0-60.0	1.31	1966.83	0.06	85.00
16.0-17.0	91.15	1197.40	3.94	51.75	60.0-61.0	1.21	1968.04	0.05	85.05
17.0-18.0	84.50	1281.90	3.65	55.40	61.0-62.0	1.12	1969.16	0.05	85.10
18.0-19.0	77.00	1358.90	3.33	58.73	62.0-63.0	1.06	1970.22	0.05	85.14
19.0-20.0	69.02	1427.92	2.98	61.71	63.0-64.0	1.02	1971.24	0.04	85.19
20.0-21.0	61.00	1488.93	2.64	64.34	64.0-65.0	0.99	1972.24	0.04	85.23
21.0-22.0	53.32	1542.25	2.30	66.65	65.0-66.0	0.96	1973.20	0.04	85.27
22.0-23.0	46.18	1588.43	2.00	68.64	66.0-67.0	0.93	1974.13	0.04	85.31
23.0-24.0	39.74	1628.17	1.72	70.36	67.0-68.0	0.90	1975.03	0.04	85.35
24.0-25.0	34.13	1662.30	1.47	71.84	68.0-69.0	0.87	1975.90	0.04	85.39
25.0-26.0	29.40	1691.70	1.27	73.11	69.0-70.0	0.86	1976.77	0.04	85.43
26.0-27.0	25.51	1717.21	1.10	74.21	70.0-71.0	0.86	1977.62	0.04	85.46
27.0-28.0	22.36	1739.57	0.97	75.18	71.0-72.0	0.86	1978.48	0.04	85.50
28.0-29.0	19.81	1759.38	0.86	76.03	72.0-73.0	0.86	1979.34	0.04	85.54
29.0-30.0	17.73	1777.12	0.77	76.80	73.0-74.0	0.86	1980.20	0.04	85.57
30.0-31.0	16.03	1793.15	0.69	77.49	74.0-75.0	0.85	1981.05	0.04	85.61
31.0-32.0	14.62	1807.78	0.63	78.12	75.0-76.0	0.85	1981.90	0.04	85.65
32.0-33.0	13.44	1821.22	0.58	78.70	76.0-77.0	0.85	1982.75	0.04	85.69
33.0-34.0	12.41	1833.63	0.54	79.24	77.0-78.0	0.85	1983.61	0.04	85.72
34.0-35.0	11.49	1845.12	0.50	79.74	78.0-79.0	0.86	1984.46	0.04	85.76
35.0-36.0	10.68	1855.80	0.46	80.20	79.0-80.0	0.86	1985.32	0.04	85.80
36.0-37.0	9.95	1865.75	0.43	80.63	80.0-81.0	0.86	1986.18	0.04	85.83
37.0-38.0	9.21	1874.95	0.40	81.03	81.0-82.0	0.85	1987.03	0.04	85.87
38.0-39.0	8.47	1883.42	0.37	81.39	82.0-83.0	0.85	1987.88	0.04	85.91
39.0-40.0	7.79	1891.21	0.34	81.73	83.0-84.0	0.85	1988.73	0.04	85.94
40.0-41.0	7.22	1898.43	0.31	82.04	84.0-85.0	0.85	1989.59	0.04	85.98
41.0-42.0	6.72	1905.15	0.29	82.33	85.0-86.0	0.86	1990.44	0.04	86.02
42.0-43.0	6.27	1911.43	0.27	82.60	86.0-87.0	0.86	1991.30	0.04	86.05
43.0-44.0	5.85	1917.28	0.25	82.86	87.0-88.0	0.85	1992.15	0.04	86.09

Zonal Flux Tabulation - (Cont.)

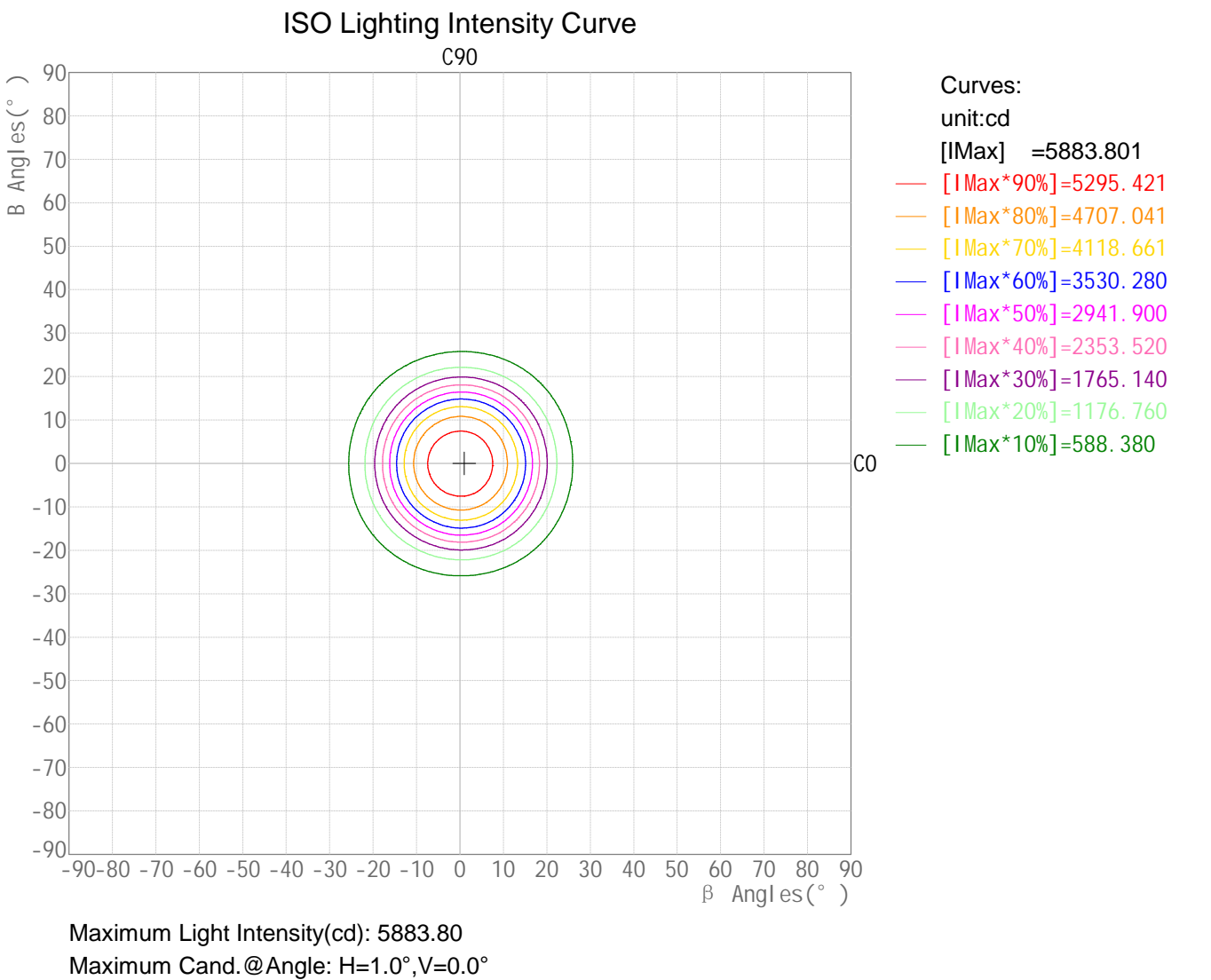
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
88.0-89.0	0.85	1993.00	0.04	86.13	132.0-133.0	0.65	2027.03	0.03	87.60
89.0-90.0	0.85	1993.85	0.04	86.16	133.0-134.0	0.65	2027.68	0.03	87.63
90.0-91.0	0.85	1994.70	0.04	86.20	134.0-135.0	0.66	2028.34	0.03	87.66
91.0-92.0	0.85	1995.55	0.04	86.24	135.0-136.0	0.65	2028.99	0.03	87.68
92.0-93.0	0.84	1996.39	0.04	86.27	136.0-137.0	0.65	2029.63	0.03	87.71
93.0-94.0	0.85	1997.24	0.04	86.31	137.0-138.0	0.65	2030.28	0.03	87.74
94.0-95.0	0.85	1998.09	0.04	86.35	138.0-139.0	0.64	2030.92	0.03	87.77
95.0-96.0	0.84	1998.93	0.04	86.38	139.0-140.0	0.65	2031.57	0.03	87.79
96.0-97.0	0.84	1999.77	0.04	86.42	140.0-141.0	0.65	2032.22	0.03	87.82
97.0-98.0	0.84	2000.61	0.04	86.46	141.0-142.0	0.65	2032.87	0.03	87.85
98.0-99.0	0.84	2001.45	0.04	86.49	142.0-143.0	0.65	2033.51	0.03	87.88
99.0-100.0	0.83	2002.27	0.04	86.53	143.0-144.0	0.65	2034.16	0.03	87.91
100.0-101.0	0.83	2003.10	0.04	86.56	144.0-145.0	0.66	2034.82	0.03	87.94
101.0-102.0	0.83	2003.94	0.04	86.60	145.0-146.0	0.66	2035.47	0.03	87.96
102.0-103.0	0.83	2004.77	0.04	86.64	146.0-147.0	0.66	2036.13	0.03	87.99
103.0-104.0	0.83	2005.60	0.04	86.67	147.0-148.0	0.66	2036.79	0.03	88.02
104.0-105.0	0.82	2006.42	0.04	86.71	148.0-149.0	0.66	2037.45	0.03	88.05
105.0-106.0	0.82	2007.24	0.04	86.74	149.0-150.0	0.66	2038.11	0.03	88.08
106.0-107.0	0.81	2008.05	0.03	86.78	150.0-151.0	0.65	2038.77	0.03	88.11
107.0-108.0	0.80	2008.85	0.03	86.81	151.0-152.0	0.65	2039.42	0.03	88.13
108.0-109.0	0.80	2009.65	0.03	86.85	152.0-153.0	0.65	2040.07	0.03	88.16
109.0-110.0	0.78	2010.43	0.03	86.88	153.0-154.0	0.65	2040.72	0.03	88.19
110.0-111.0	0.78	2011.21	0.03	86.91	154.0-155.0	0.64	2041.36	0.03	88.22
111.0-112.0	0.78	2011.98	0.03	86.95	155.0-156.0	0.63	2042.00	0.03	88.25
112.0-113.0	0.77	2012.76	0.03	86.98	156.0-157.0	0.63	2042.62	0.03	88.27
113.0-114.0	0.77	2013.52	0.03	87.01	157.0-158.0	0.62	2043.24	0.03	88.30
114.0-115.0	0.76	2014.28	0.03	87.05	158.0-159.0	0.61	2043.85	0.03	88.33
115.0-116.0	0.75	2015.03	0.03	87.08	159.0-160.0	0.59	2044.44	0.03	88.35
116.0-117.0	0.75	2015.78	0.03	87.11	160.0-161.0	0.58	2045.02	0.02	88.38
117.0-118.0	0.75	2016.53	0.03	87.14	161.0-162.0	0.56	2045.57	0.02	88.40
118.0-119.0	0.75	2017.28	0.03	87.18	162.0-163.0	0.54	2046.11	0.02	88.42
119.0-120.0	0.75	2018.03	0.03	87.21	163.0-164.0	0.51	2046.62	0.02	88.45
120.0-121.0	0.74	2018.77	0.03	87.24	164.0-165.0	0.49	2047.11	0.02	88.47
121.0-122.0	0.73	2019.49	0.03	87.27	165.0-166.0	0.46	2047.57	0.02	88.49
122.0-123.0	0.72	2020.22	0.03	87.30	166.0-167.0	0.43	2048.00	0.02	88.50
123.0-124.0	0.71	2020.93	0.03	87.33	167.0-168.0	0.41	2048.41	0.02	88.52
124.0-125.0	0.70	2021.63	0.03	87.37	168.0-169.0	0.38	2048.79	0.02	88.54
125.0-126.0	0.69	2022.32	0.03	87.40	169.0-170.0	0.35	2049.13	0.01	88.55
126.0-127.0	0.69	2023.01	0.03	87.42	170.0-171.0	0.31	2049.45	0.01	88.57
127.0-128.0	0.68	2023.69	0.03	87.45	171.0-172.0	0.28	2049.73	0.01	88.58
128.0-129.0	0.68	2024.37	0.03	87.48	172.0-173.0	0.25	2049.98	0.01	88.59
129.0-130.0	0.67	2025.05	0.03	87.51	173.0-174.0	0.22	2050.19	0.01	88.60
130.0-131.0	0.67	2025.72	0.03	87.54	174.0-175.0	0.18	2050.38	0.01	88.61
131.0-132.0	0.66	2026.38	0.03	87.57	175.0-176.0	0.15	2050.53	0.01	88.61

Zonal Flux Tabulation - (Cont.)

Zone( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
176.0-177.0	0.12	2050.64	0.01	88.62
177.0-178.0	0.08	2050.73	0.00	88.62
178.0-179.0	0.05	2050.78	0.00	88.62
179.0-180.0	0.02	2050.79	0.00	88.63

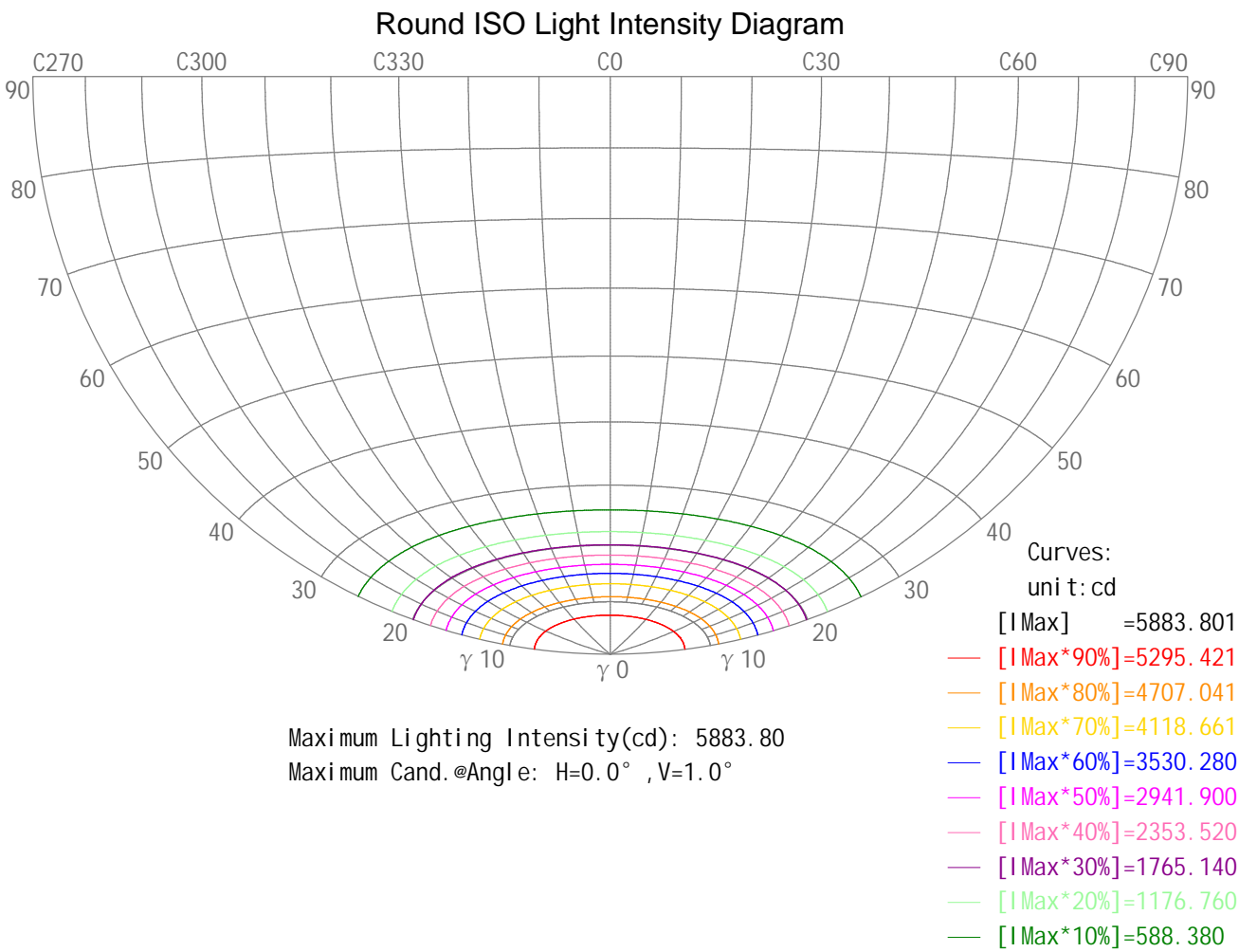
Rectangle ISO Lighting Intensity Diagram

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



Round ISO Lighting Intensity Diagram

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

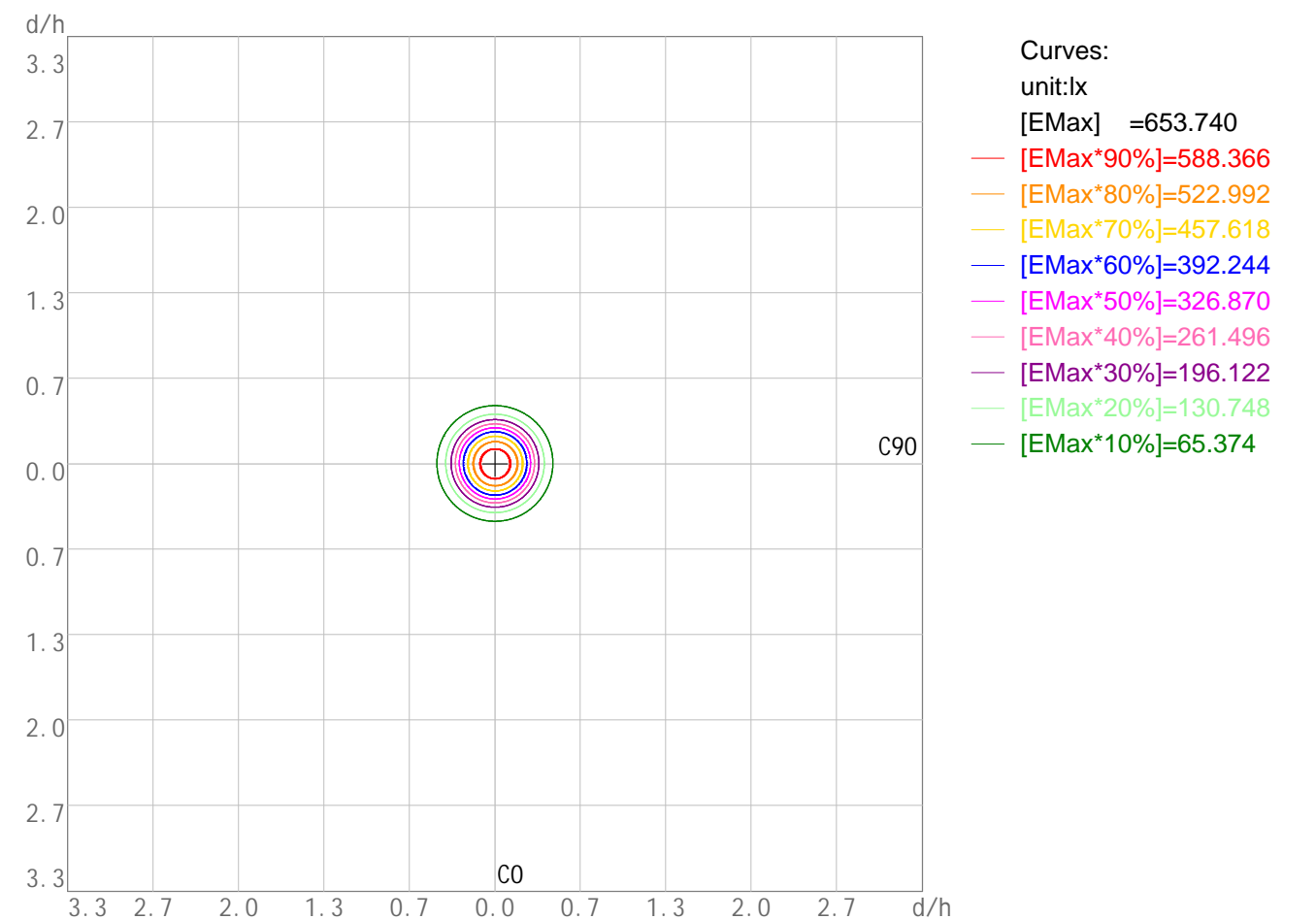




Plane ISO-Illuminance Diagram

Lum. Name: AT10031	Lum. Catel og:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catel og: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 653.74  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

3D Plane Illuminance Model



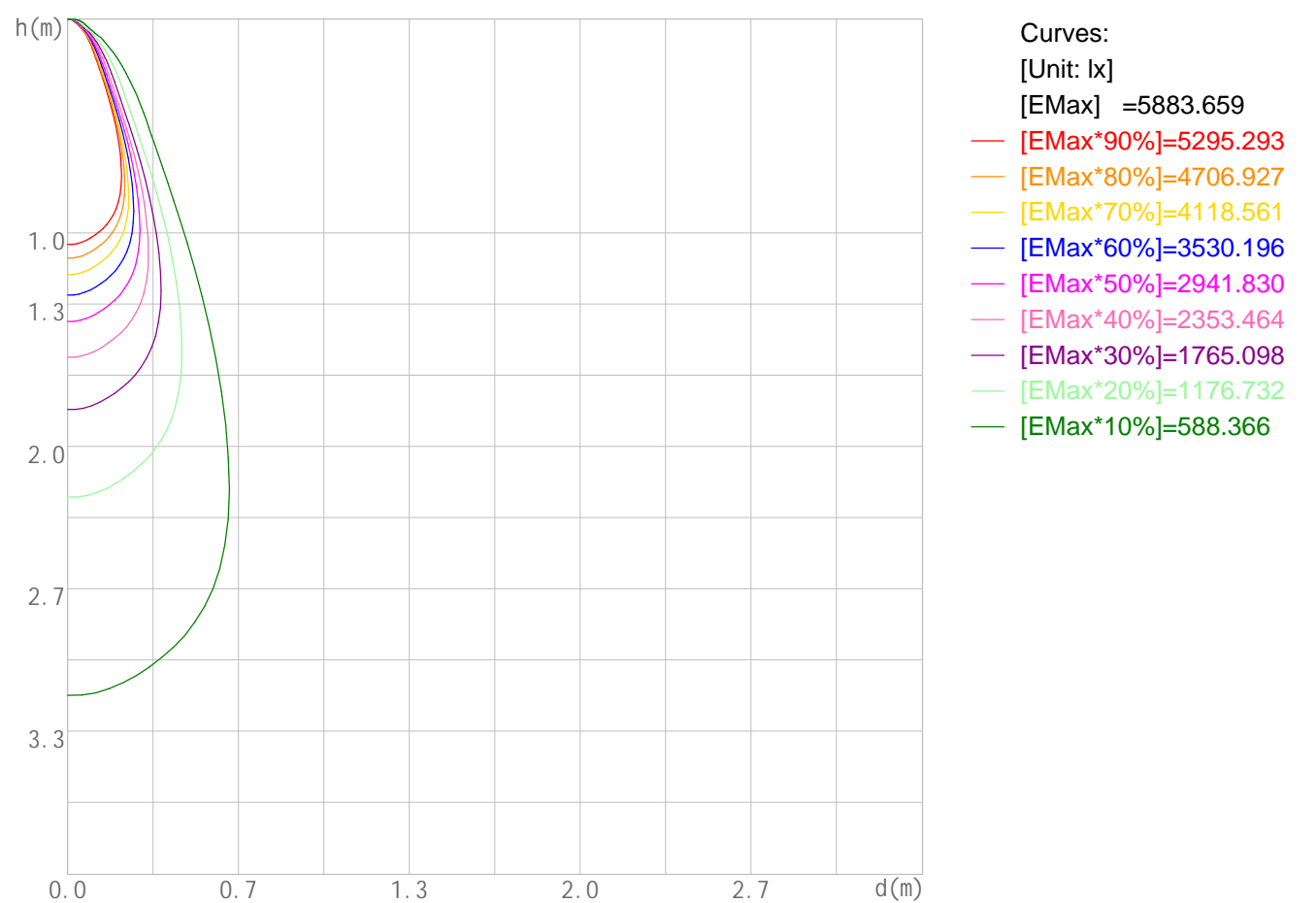
Curves: 3D Model— 90%— 80%— 70%— 60%— 50%— 40%— 30%— 20%— 10%—

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

Space ISO Illuminance Diagram

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

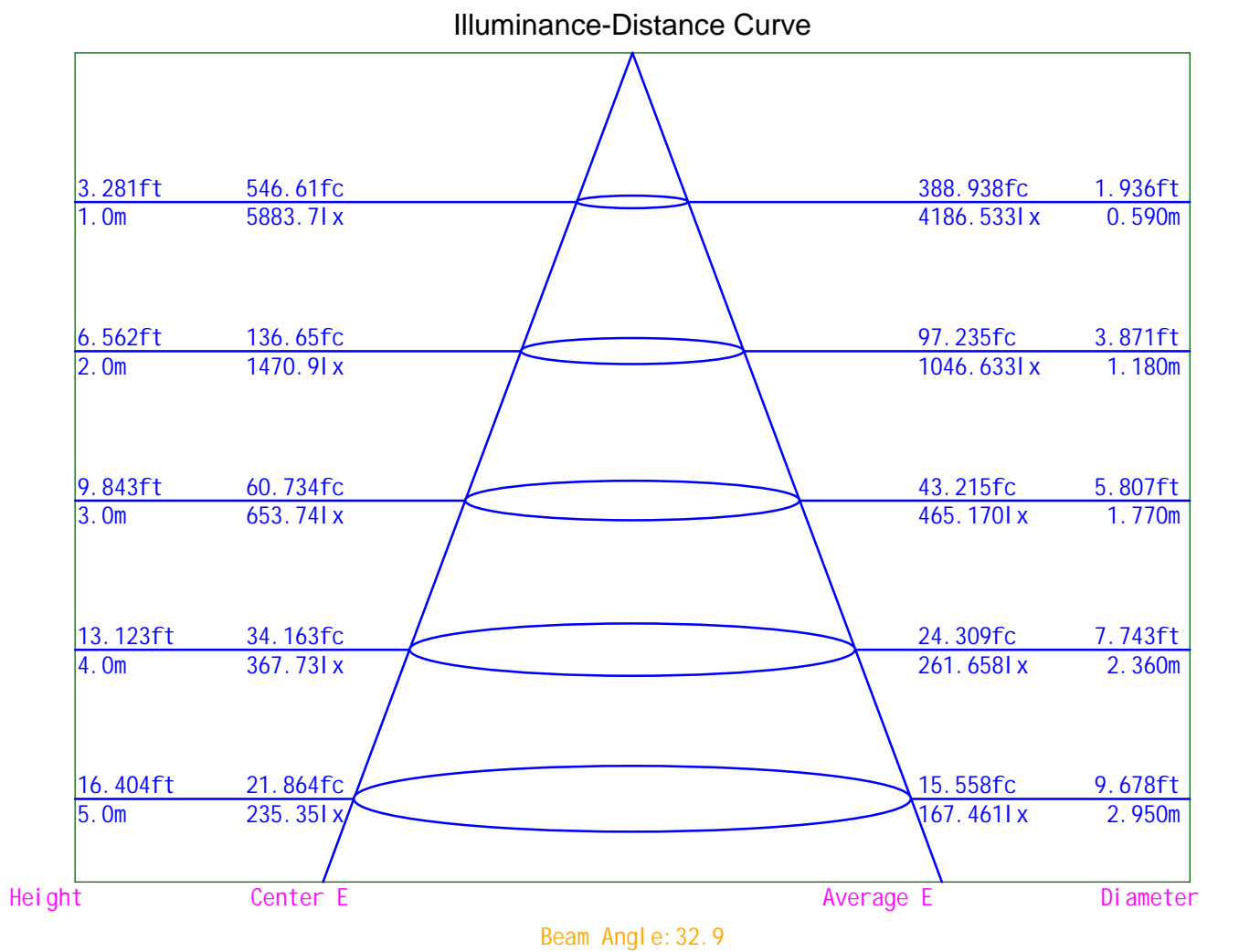
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:5883.66lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:5883.801cd,0deg

Illuminance-Distance Diagram

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



Indoor Luminance Limiting Curves

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: C0B	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

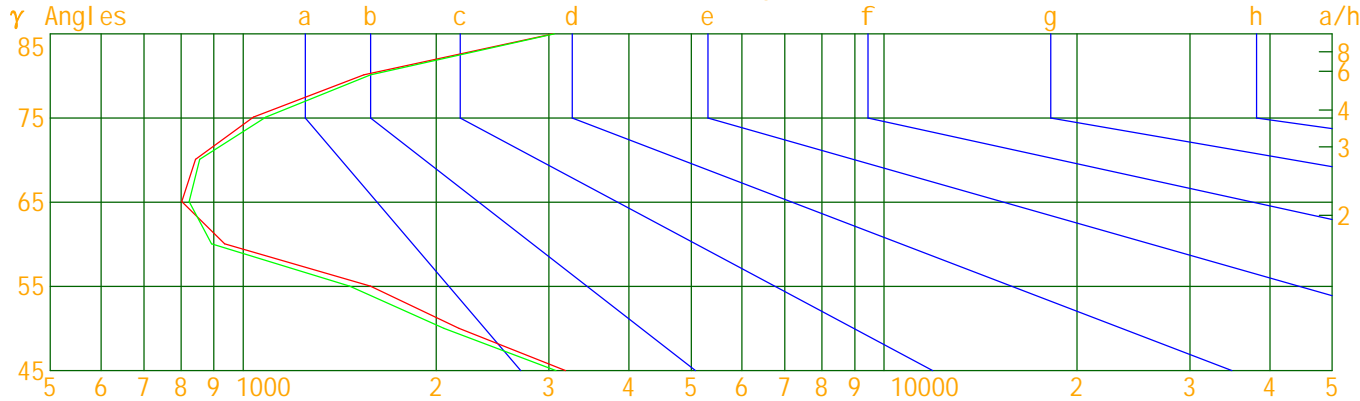
Glare Grade Table

GI	Quality	Using Illuminance							
		2000	1000	500	<=300				
1.15	A								
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	3185	2171	1578	936	802	843	1037	1543	3045
C90	3075	2056	1465	893	823	855	1085	1581	3058

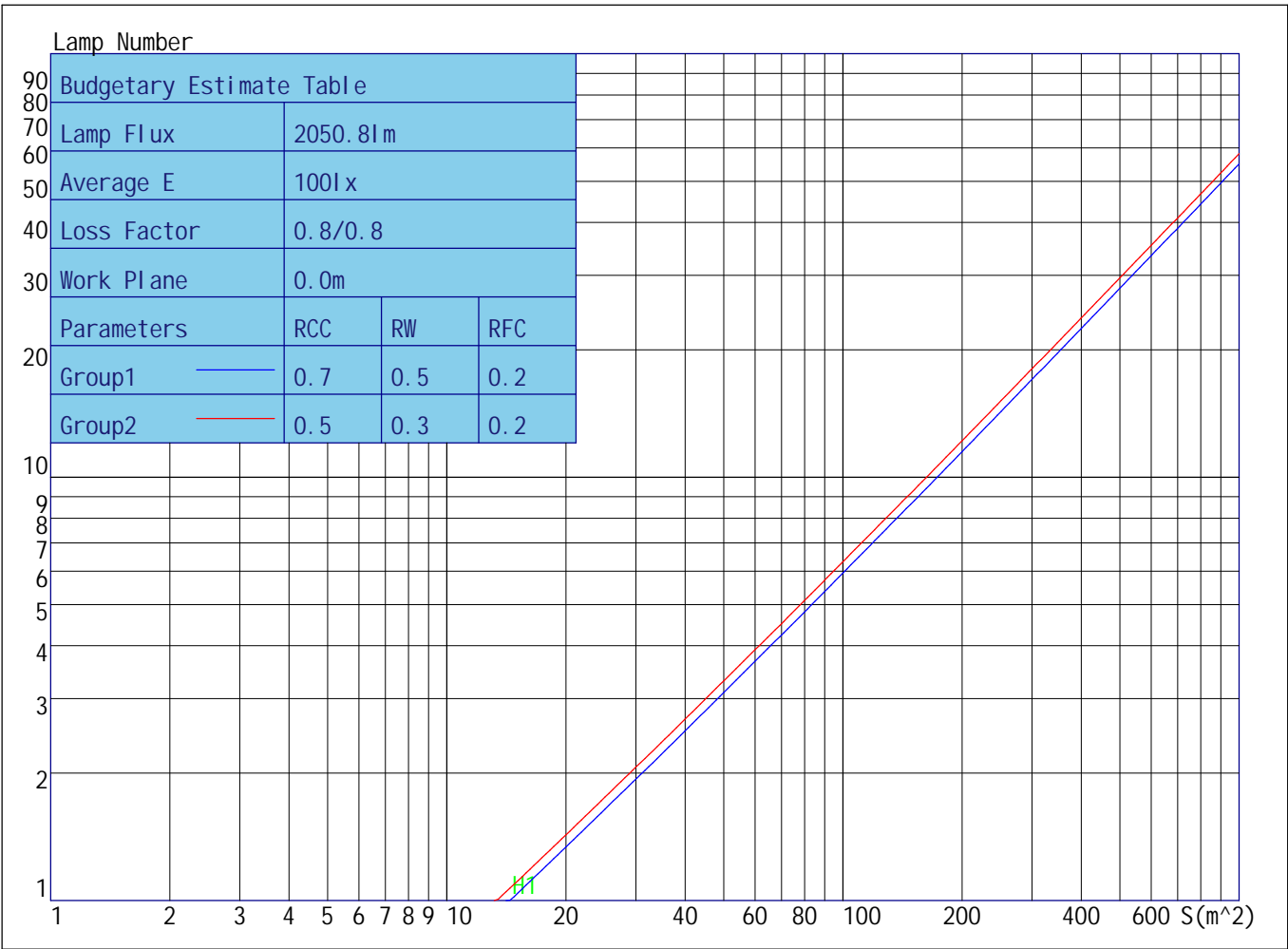
Luminance Limiting Curve



Luminous Size: Length(m)=-0.200 Width(m)=-0.200 Height(m)=0.000 Area(m^2)=0.031416  
Luminous Type: Without Luminous Side  
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



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: AT10031	Lum. Catelog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catelog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

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

## IES Indoor Report

Photometric Filename:AT10031 25W 1204 3090 HK75-36D KG600.IES

### Unified Glare Rating Table

Lum. Name: AT10031	Lum. Catalog:	Test ID:
Lamp Name: CITIZEN 1204	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

### 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	8.9	9.6	9.3	10.0	10.3	8.7	9.4	9.1	9.8	10.1	
	Y=3H	9.0	9.6	9.5	10.0	10.5	8.9	9.5	9.3	9.9	10.3
	Y=4H	9.3	9.8	9.7	10.2	10.7	9.1	9.7	9.6	10.1	10.5
	Y=6H	9.7	10.2	10.2	10.6	11.1	9.6	10.1	10.1	10.5	11.0
	Y=8H	10.1	10.5	10.6	10.9	11.4	10.0	10.4	10.5	10.9	11.4
	Y=12H	10.6	11.0	11.1	11.4	11.9	10.6	11.0	11.1	11.4	11.9
X=4H Y=2H	8.8	9.3	9.2	9.7	10.2	8.6	9.1	9.1	9.5	10.0	
	Y=3H	9.1	9.4	9.5	9.9	10.4	8.9	9.3	9.4	9.8	10.3
	Y=4H	9.4	9.7	9.9	10.2	10.7	9.4	9.7	9.9	10.2	10.7
	Y=6H	10.2	10.4	10.7	10.9	11.5	10.2	10.4	10.7	10.9	11.5
	Y=8H	10.8	10.9	11.3	11.4	12.0	10.8	10.9	11.3	11.5	12.0
	Y=12H	11.5	11.6	12.1	12.2	12.7	11.6	11.7	12.1	12.2	12.8
X=8H Y=4H	9.6	9.7	10.1	10.2	10.8	9.5	9.7	10.1	10.2	10.8	
	Y=6H	10.6	10.7	11.2	11.2	11.8	10.7	10.7	11.2	11.3	11.8
	Y=8H	11.4	11.4	12.0	12.0	12.6	11.5	11.5	12.1	12.1	12.6
	Y=12H	12.5	12.5	13.1	13.0	13.7	12.6	12.5	13.2	13.1	13.8
X=12H Y=4H	9.6	9.7	10.1	10.2	10.8	9.6	9.7	10.1	10.2	10.8	
	Y=6H	10.7	10.8	11.3	11.3	11.9	10.8	10.8	11.4	11.4	12.0
	Y=8H	11.7	11.6	12.3	12.2	12.9	11.8	11.7	12.3	12.3	12.9
Variations with the objverver position at spacings											
S=1.0H	0.1/-0.1					0.0/-0.0					
S=1.5H	0.1/-0.2					0.1/-0.1					
S=2.0H	0.2/-0.2					0.1/-0.2					
Reduced UGR Table:											
Nordic Standard Table:	BK0					BK0					
Correction Value	2.6					2.7					

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



Candela Tabulation

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 0.0	5883.66	5883.66	5883.66	5883.66	5883.66	5883.66
γ 1.0	5883.80	5871.10	5859.44	5871.02	5873.42	5875.32
γ 2.0	5851.86	5838.77	5817.05	5832.40	5833.83	5841.97
γ 3.0	5792.57	5775.34	5750.62	5765.67	5767.81	5780.56
γ 4.0	5707.48	5688.48	5663.39	5682.52	5688.12	5700.74
γ 5.0	5607.88	5586.93	5565.55	5583.73	5596.10	5610.81
γ 6.0	5492.60	5479.90	5461.33	5475.40	5491.92	5507.24
γ 7.0	5364.63	5364.46	5344.25	5354.75	5363.30	5386.19
γ 8.0	5229.29	5234.73	5209.85	5215.76	5212.50	5243.56
γ 9.0	5075.94	5083.04	5049.13	5051.51	5043.07	5075.81
γ 10.0	4892.96	4904.85	4859.70	4853.65	4847.22	4882.16
γ 11.0	4691.98	4701.37	4640.18	4630.92	4629.19	4669.85
γ 12.0	4463.45	4461.15	4383.35	4372.41	4382.89	4438.68
γ 13.0	4198.74	4183.50	4090.66	4069.72	4094.87	4177.18
γ 14.0	3898.66	3873.00	3763.76	3738.99	3771.57	3881.37
γ 15.0	3570.13	3531.42	3402.26	3377.17	3422.17	3557.75
γ 16.0	3208.23	3161.52	3033.18	3006.70	3051.78	3205.42
γ 17.0	2824.03	2797.33	2670.82	2642.34	2685.18	2831.29
γ 18.0	2458.13	2441.90	2316.89	2288.06	2328.01	2465.76
γ 19.0	2111.31	2101.94	1982.00	1952.38	1987.85	2120.13
γ 20.0	1787.76	1783.37	1675.14	1646.04	1678.25	1800.17
γ 21.0	1497.87	1495.81	1401.49	1377.08	1406.08	1512.73
γ 22.0	1244.19	1243.20	1162.78	1145.48	1171.81	1261.55
γ 23.0	1027.44	1026.47	957.87	949.16	972.94	1043.62
γ 24.0	845.74	845.17	787.58	785.70	806.73	858.22
γ 25.0	699.21	697.68	650.29	652.67	671.01	705.37
γ 26.0	582.05	581.03	541.24	546.75	562.00	583.60
γ 27.0	490.14	488.42	455.54	462.28	475.22	488.58
γ 28.0	417.61	415.55	388.70	395.98	407.02	414.18
γ 29.0	359.82	357.48	335.89	342.82	352.58	355.55
γ 30.0	314.05	311.51	293.89	300.14	308.24	309.12
γ 31.0	277.18	274.17	259.76	264.64	272.17	272.04
γ 32.0	246.75	243.90	232.04	235.65	242.43	242.13
γ 33.0	221.34	218.55	208.61	210.94	217.57	217.24
γ 34.0	199.36	196.95	188.03	189.53	196.19	195.94
γ 35.0	179.95	178.11	170.54	171.07	177.54	177.37
γ 36.0	163.78	162.24	155.21	155.24	161.26	161.07
γ 37.0	149.48	147.83	140.48	140.08	146.09	146.81
γ 38.0	135.41	133.47	126.40	125.24	131.02	132.54
γ 39.0	121.65	120.05	114.33	112.85	116.93	118.29
γ 40.0	110.46	108.75	103.98	101.83	105.57	106.20
γ 41.0	99.85	99.30	95.11	93.06	96.08	96.10
γ 42.0	91.58	90.94	87.21	85.09	87.90	87.66
γ 43.0	83.95	83.46	79.93	77.72	80.35	80.11

Candela Tabulation - (Cont.)

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 44.0	77.42	76.53	73.16	70.90	73.33	73.30
γ 45.0	70.76	69.91	66.72	64.43	67.01	67.11
γ 46.0	64.77	63.85	60.37	58.42	60.79	61.30
γ 47.0	59.14	57.96	54.53	52.38	55.18	55.76
γ 48.0	53.41	52.42	49.32	47.05	49.72	50.33
γ 49.0	48.54	47.13	44.71	41.71	44.54	45.42
γ 50.0	43.84	42.50	40.53	37.52	39.92	41.07
γ 51.0	40.06	38.67	36.84	33.97	36.08	37.11
γ 52.0	36.68	35.34	34.03	31.25	33.07	33.64
γ 53.0	33.56	32.23	31.42	28.54	30.25	30.74
γ 54.0	30.84	29.85	28.84	26.05	27.66	28.38
γ 55.0	28.44	27.16	25.64	23.20	24.86	25.85
γ 56.0	25.00	23.25	21.45	18.45	20.89	22.52
γ 57.0	20.74	19.21	18.45	15.86	17.00	18.75
γ 58.0	17.84	16.91	16.61	13.93	14.81	15.71
γ 59.0	16.20	15.09	15.29	12.62	13.51	13.91
γ 60.0	14.69	14.04	14.01	11.68	12.35	12.57
γ 61.0	13.43	12.82	13.00	10.50	11.13	11.38
γ 62.0	12.30	12.04	12.40	9.86	10.17	10.35
γ 63.0	11.81	11.34	11.90	9.38	9.57	9.81
γ 64.0	11.38	10.98	11.51	8.86	9.24	9.39
γ 65.0	10.64	10.81	11.06	8.57	8.96	9.07
γ 66.0	10.45	10.34	10.49	8.23	8.41	8.84
γ 67.0	9.74	9.91	10.05	8.17	7.97	8.47
γ 68.0	9.40	9.39	9.71	7.58	7.82	8.05
γ 69.0	9.05	9.33	9.43	7.52	7.78	7.83
γ 70.0	9.06	9.06	9.32	7.34	7.46	7.83
γ 71.0	8.74	8.88	9.26	7.45	7.40	7.73
γ 72.0	8.79	8.95	9.10	7.33	7.45	7.74
γ 73.0	8.86	8.77	9.03	7.49	7.53	7.69
γ 74.0	8.76	8.80	9.10	7.23	7.43	7.49
γ 75.0	8.44	8.69	8.95	7.08	7.17	7.47
γ 76.0	8.55	8.72	8.83	7.30	7.26	7.45
γ 77.0	8.43	8.66	8.77	7.04	7.36	7.51
γ 78.0	8.41	8.64	8.71	7.24	7.38	7.55
γ 79.0	8.46	8.79	8.61	7.27	7.26	7.53
γ 80.0	8.42	8.60	8.66	6.90	7.55	7.47
γ 81.0	8.36	8.65	8.53	7.09	7.29	7.39
γ 82.0	8.47	8.53	8.51	6.82	7.32	7.34
γ 83.0	8.44	8.40	8.38	7.09	7.41	7.45
γ 84.0	8.15	8.31	8.23	7.05	7.31	7.57
γ 85.0	8.34	8.44	8.31	7.08	7.34	7.55
γ 86.0	8.46	8.30	8.37	7.07	7.31	7.50
γ 87.0	8.12	8.37	8.44	7.03	7.44	7.42

## IES Indoor Report

Photometric Filename:AT10031 25W 1204 3090 HK75-36D KG600.IES

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### Candela Tabulation - (Cont.)

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 88.0	8.19	8.30	8.37	6.98	7.50	7.35
γ 89.0	7.94	8.14	8.34	7.18	7.06	7.38
γ 90.0	8.37	8.18	8.40	7.29	7.46	7.34
γ 91.0	7.96	8.05	8.39	7.27	7.36	7.33
γ 92.0	8.02	8.18	8.26	7.24	7.29	7.26
γ 93.0	8.01	8.32	8.14	7.08	7.38	7.32
γ 94.0	8.35	8.10	8.06	7.18	7.41	7.48
γ 95.0	8.23	8.10	8.16	7.15	7.42	7.56
γ 96.0	8.09	8.13	8.10	7.14	7.28	7.39
γ 97.0	8.21	7.94	8.06	7.32	7.20	7.25
γ 98.0	8.20	8.31	8.10	7.14	7.47	7.35
γ 99.0	8.01	8.15	8.14	6.96	7.37	7.32
γ 100.0	8.05	7.95	8.21	7.04	7.20	7.25
γ 101.0	8.23	8.19	8.29	7.20	7.45	7.35
γ 102.0	8.16	8.05	8.33	6.89	7.43	7.49
γ 103.0	8.33	8.29	8.18	7.14	7.34	7.66
γ 104.0	8.26	8.16	8.23	7.08	7.34	7.47
γ 105.0	8.22	8.15	8.28	7.21	7.24	7.60
γ 106.0	7.94	8.22	8.13	7.15	7.32	7.59
γ 107.0	7.91	7.78	7.99	7.30	7.26	7.56
γ 108.0	8.17	8.05	7.88	7.19	7.13	7.61
γ 109.0	7.93	7.98	7.91	7.47	7.18	7.48
γ 110.0	7.90	7.87	7.79	6.82	7.14	7.41
γ 111.0	8.02	7.94	7.73	7.26	7.18	7.64
γ 112.0	7.98	8.03	7.76	7.07	7.14	7.71
γ 113.0	7.95	7.99	7.79	7.19	7.12	7.74
γ 114.0	7.97	7.80	7.80	7.30	7.20	7.63
γ 115.0	7.76	8.02	7.79	7.05	7.07	7.67
γ 116.0	8.17	7.86	7.79	7.16	7.16	7.69
γ 117.0	7.81	8.07	7.77	7.16	7.30	7.82
γ 118.0	7.99	8.25	7.79	7.08	7.38	7.97
γ 119.0	8.05	8.12	7.92	7.15	7.63	7.92
γ 120.0	8.08	8.07	8.05	7.29	7.77	7.77
γ 121.0	7.88	8.05	7.99	7.29	7.78	7.66
γ 122.0	8.07	8.06	7.97	7.46	7.74	7.67
γ 123.0	8.05	7.87	7.99	7.27	7.73	7.78
γ 124.0	7.96	8.14	7.90	7.25	7.76	7.83
γ 125.0	7.90	8.03	7.77	7.38	7.56	7.81
γ 126.0	7.93	7.98	7.78	7.51	7.69	7.84
γ 127.0	7.88	8.05	7.99	7.52	7.60	7.76
γ 128.0	8.15	7.96	8.17	7.38	7.70	7.82
γ 129.0	8.18	8.27	8.00	7.77	7.91	7.85
γ 130.0	8.02	8.30	7.98	7.56	7.81	7.91
γ 131.0	8.11	8.35	8.25	7.61	8.09	8.03

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## IES Indoor Report

Photometric Filename:AT10031 25W 1204 3090 HK75-36D KG600.IES

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### Candela Tabulation - (Cont.)

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 132.0	7.95	8.44	8.26	7.71	8.02	7.96
γ 133.0	8.17	8.53	8.26	7.65	7.94	8.05
γ 134.0	8.54	8.62	8.52	8.08	8.09	8.27
γ 135.0	8.27	8.65	8.61	8.30	8.26	8.37
γ 136.0	8.37	8.72	8.84	8.29	8.29	8.29
γ 137.0	8.66	8.92	8.96	8.41	8.47	8.50
γ 138.0	8.82	9.19	9.01	8.56	8.45	8.66
γ 139.0	9.08	9.26	9.05	8.82	8.46	8.86
γ 140.0	9.38	9.81	9.30	8.93	8.70	9.28
γ 141.0	9.70	9.57	9.48	9.11	8.93	9.52
γ 142.0	9.72	9.77	9.59	9.50	9.38	9.55
γ 143.0	9.79	9.87	9.97	9.67	9.58	9.73
γ 144.0	10.27	10.31	10.09	10.11	10.05	10.04
γ 145.0	10.48	10.71	10.49	10.53	10.16	10.17
γ 146.0	10.78	10.87	10.87	10.83	10.53	10.56
γ 147.0	11.06	11.05	11.21	11.07	10.84	10.82
γ 148.0	11.76	11.48	11.51	11.26	11.22	11.18
γ 149.0	11.60	11.88	11.76	11.51	11.53	11.60
γ 150.0	11.79	12.06	12.17	12.00	11.89	11.93
γ 151.0	12.46	12.21	12.50	12.11	12.13	12.26
γ 152.0	12.71	12.61	12.77	12.62	12.68	12.53
γ 153.0	13.12	13.32	13.09	13.13	12.91	12.85
γ 154.0	13.55	13.39	13.57	13.45	13.29	13.48
γ 155.0	13.83	13.69	13.93	13.89	13.79	13.85
γ 156.0	14.15	13.89	14.21	14.02	14.07	14.00
γ 157.0	14.57	14.43	14.62	14.78	14.51	14.32
γ 158.0	15.01	14.71	15.08	15.30	14.96	14.63
γ 159.0	15.47	15.36	15.39	15.32	15.19	14.96
γ 160.0	15.76	15.57	15.76	15.84	15.31	15.39
γ 161.0	15.88	16.01	15.93	15.86	15.74	15.60
γ 162.0	16.40	16.20	16.08	16.49	15.88	15.78
γ 163.0	16.31	16.51	16.40	16.45	16.29	15.96
γ 164.0	16.69	16.46	16.68	16.74	16.49	16.28
γ 165.0	16.84	16.56	16.84	16.98	16.53	16.58
γ 166.0	16.99	16.88	16.94	17.24	16.76	16.74
γ 167.0	17.29	16.94	17.05	17.38	16.83	16.86
γ 168.0	17.48	17.02	17.14	17.68	17.01	16.91
γ 169.0	17.53	17.13	17.07	17.70	17.07	17.12
γ 170.0	17.71	17.22	17.17	17.96	17.02	17.26
γ 171.0	17.30	17.23	17.21	17.88	17.05	17.25
γ 172.0	17.47	17.40	17.13	17.85	17.05	17.18
γ 173.0	17.38	17.45	17.22	17.76	17.25	17.25
γ 174.0	17.41	17.39	17.38	17.75	16.98	17.27
γ 175.0	17.34	17.53	17.53	17.76	17.08	17.15

**Candela Tabulation - (Cont.)**

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 176.0	17.39	17.61	17.35	17.77	17.11	17.25
γ 177.0	17.26	17.33	17.49	17.72	17.21	17.27
γ 178.0	17.46	17.55	17.63	17.90	17.19	17.24
γ 179.0	17.51	17.51	17.27	17.58	17.06	17.35
γ 180.0	17.35	17.35	17.35	17.35	17.35	17.35