

# IES Indoor Report

## Photometric Filename:AR111 GU10-15W 45°.IES

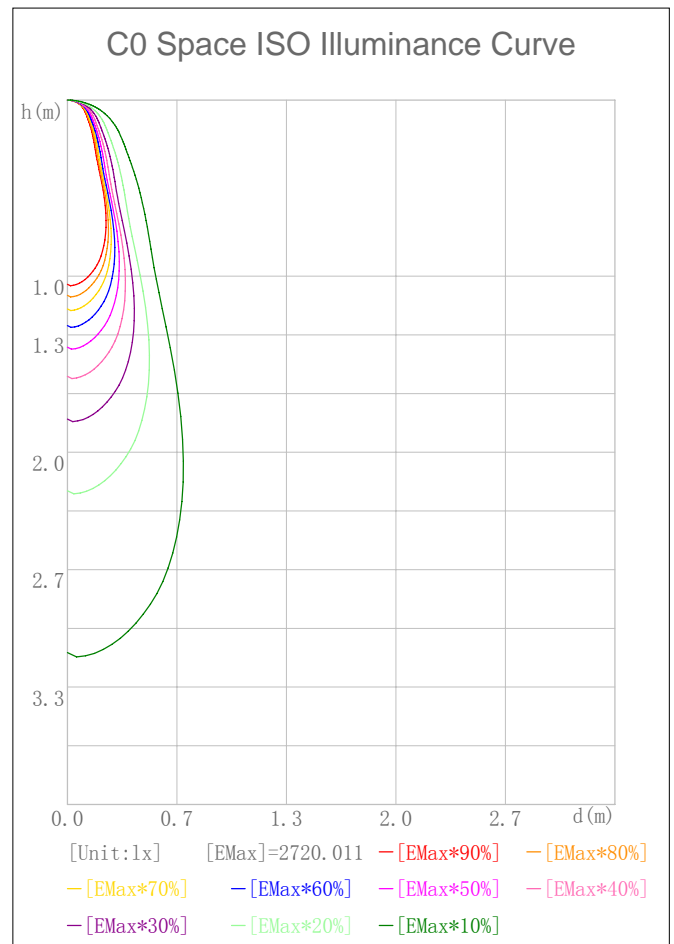
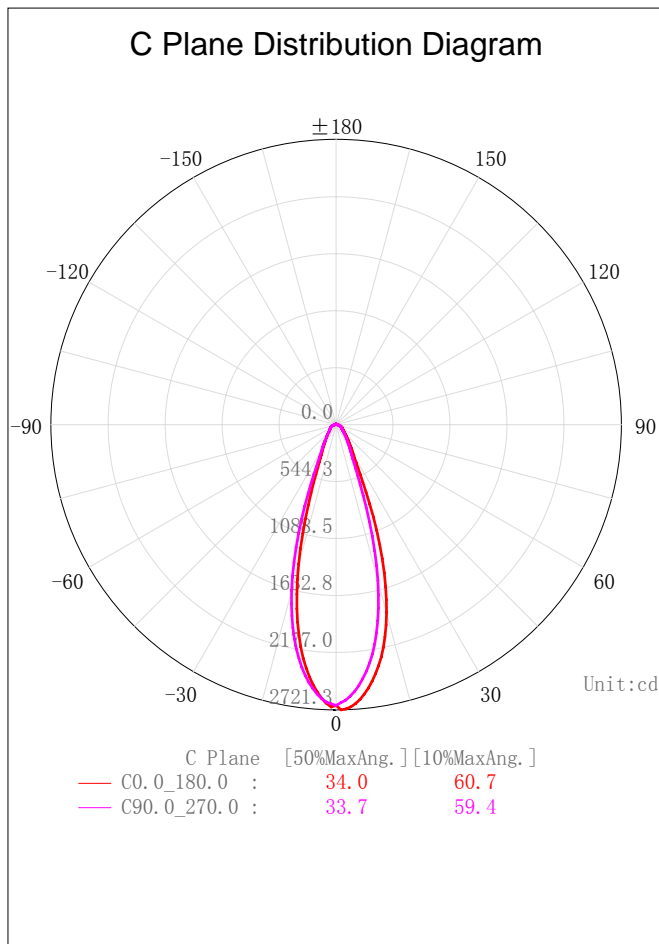
### Indoor Luminaire Photometric Data

#### Description Information

Luminaire Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Date: 2019/11/25
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab: YIZHENG PRODUCT TECHNICAL SERVICES CO.,LTD.	Frequency (Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H):0.070m*1.410m*0.010m	Lum. Area (m2):0.113	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=22.5 γ=1.0	Temp. (°C): 25
		Humidity(%): 50.0

#### Character Parameter

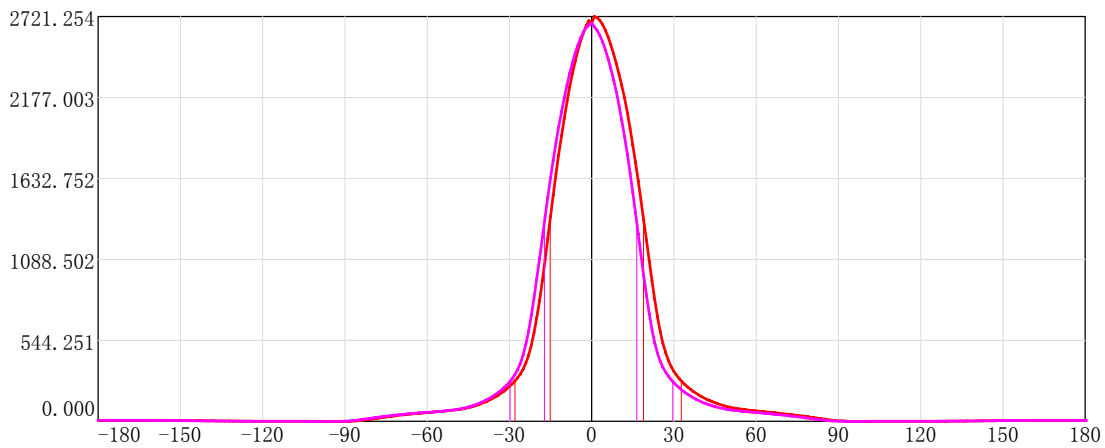
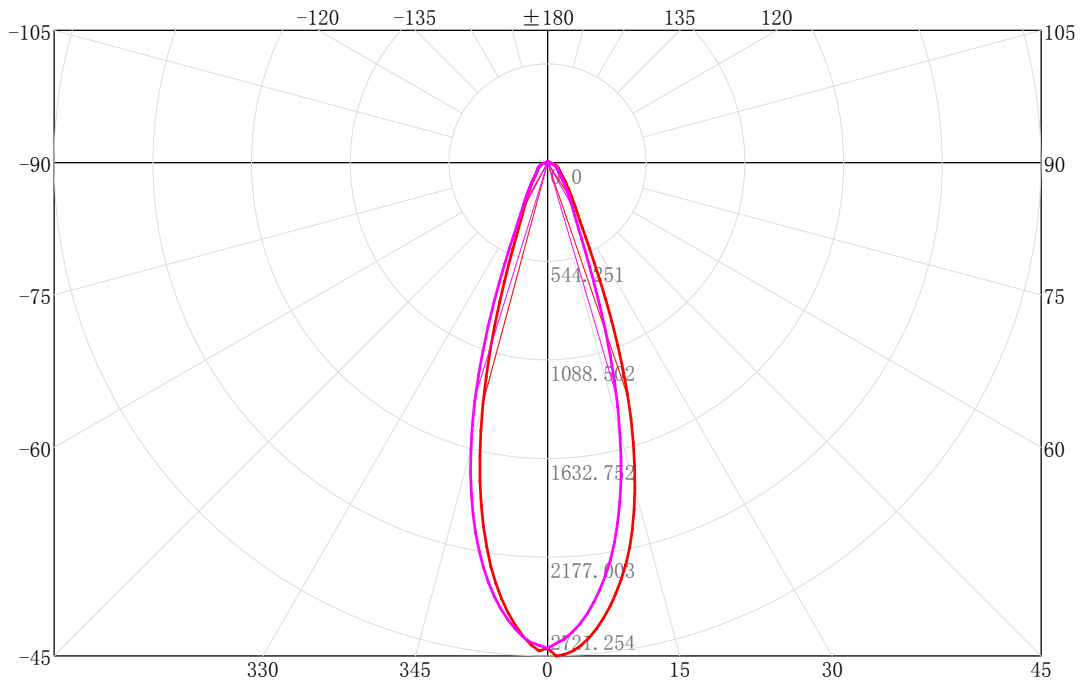
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1245.700	Luminaire Flux(lm): 1245.695	Field Angle(10%Imax): 60.7(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1231.397lm 98.85%	
Rated Voltage(V):	Luminaire EER(lm/W): 85.322	Up Lumens&Percent: 14.299lm 1.15%	
Tested Power(W): 14.600	Max. Candela(cd): 2721.254	S/MH: C0_a180=0.572 C90_270=0.561	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):230.3, 0.133, 0.475	Beam Angle(50%Imax): 34.0(°)	ErP φ use(90°): 1028.238lm	
Lamp Size (W*L*H):0.070m*1.410m*0.010m	Left=-15.1°, Right=18.9°	IRF(%): 522.116	



**2D Plane Light Intensity Distribution Curve**

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

**C Plane Distribution Diagram**

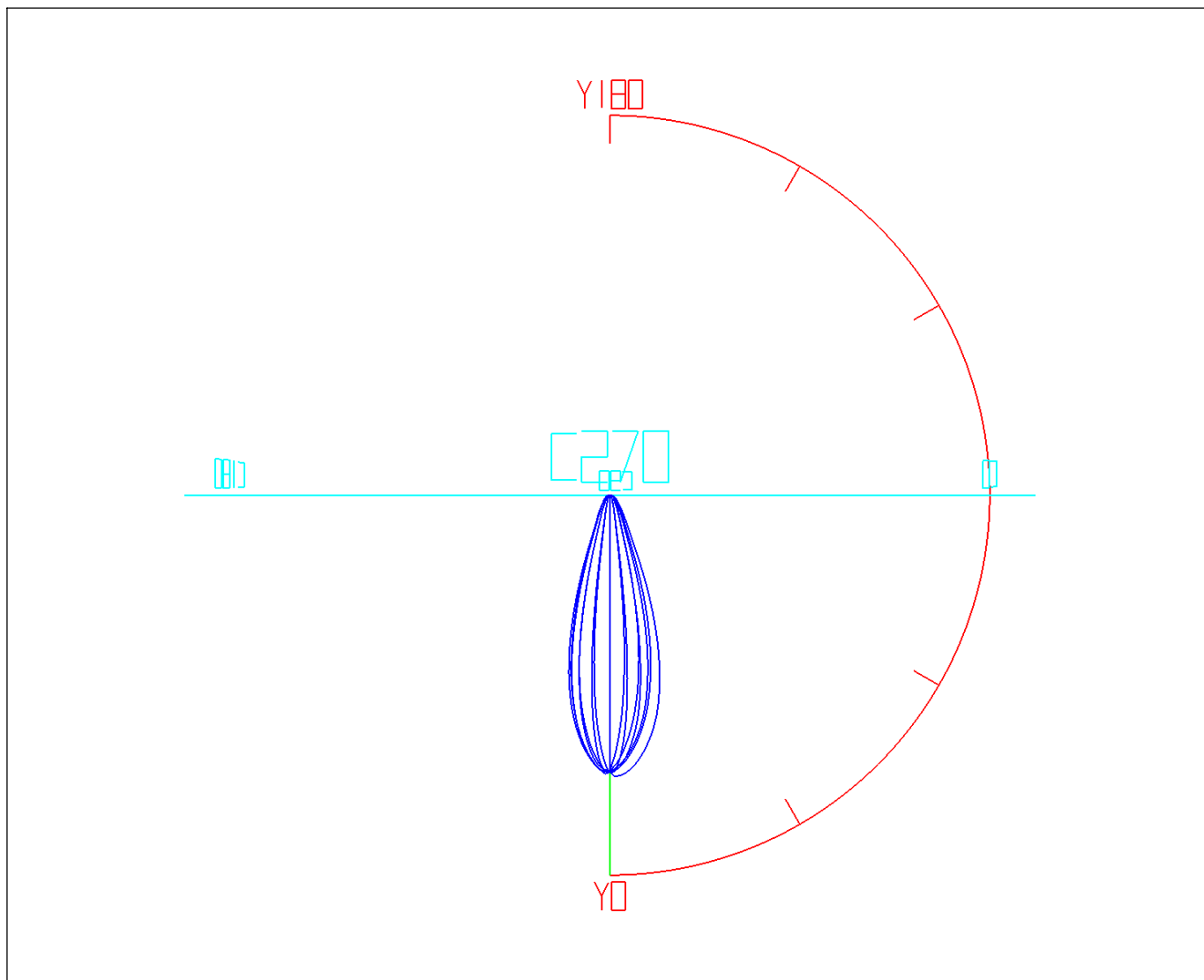


C Plane [50%MaxAng.] [10%MaxAng.] Unit:cd  
 — C0.0\_180.0 : 34.0 60.7  
 — C90.0\_270.0 : 33.7 59.4

### 3D Light Intensity Distribution Modal

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

### 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	2.56	2.56	0.21	0.21	47.0-48.0	7.23	1055.02	0.58	84.69
1.0-2.0	7.62	10.18	0.61	0.82	48.0-49.0	7.05	1062.07	0.57	85.26
2.0-3.0	12.57	22.74	1.01	1.83	49.0-50.0	6.89	1068.96	0.55	85.81
3.0-4.0	17.33	40.08	1.39	3.22	50.0-51.0	6.76	1075.73	0.54	86.36
4.0-5.0	21.87	61.94	1.76	4.97	51.0-52.0	6.65	1082.38	0.53	86.89
5.0-6.0	26.13	88.08	2.10	7.07	52.0-53.0	6.55	1088.93	0.53	87.42
6.0-7.0	30.09	118.17	2.42	9.49	53.0-54.0	6.46	1095.39	0.52	87.93
7.0-8.0	33.70	151.87	2.71	12.19	54.0-55.0	6.37	1101.76	0.51	88.45
8.0-9.0	36.92	188.79	2.96	15.16	55.0-56.0	6.28	1108.04	0.50	88.95
9.0-10.0	39.69	228.48	3.19	18.34	56.0-57.0	6.19	1114.23	0.50	89.45
10.0-11.0	41.98	270.46	3.37	21.71	57.0-58.0	6.11	1120.34	0.49	89.94
11.0-12.0	43.72	314.18	3.51	25.22	58.0-59.0	6.03	1126.37	0.48	90.42
12.0-13.0	44.87	359.05	3.60	28.82	59.0-60.0	5.95	1132.32	0.48	90.90
13.0-14.0	45.42	404.46	3.65	32.47	60.0-61.0	5.86	1138.18	0.47	91.37
14.0-15.0	45.33	449.79	3.64	36.11	61.0-62.0	5.77	1143.95	0.46	91.83
15.0-16.0	44.60	494.39	3.58	39.69	62.0-63.0	5.67	1149.62	0.45	92.29
16.0-17.0	43.22	537.62	3.47	43.16	63.0-64.0	5.55	1155.18	0.45	92.73
17.0-18.0	41.24	578.85	3.31	46.47	64.0-65.0	5.43	1160.61	0.44	93.17
18.0-19.0	38.73	617.58	3.11	49.58	65.0-66.0	5.30	1165.90	0.43	93.59
19.0-20.0	35.83	653.41	2.88	52.45	66.0-67.0	5.16	1171.06	0.41	94.01
20.0-21.0	32.67	686.09	2.62	55.08	67.0-68.0	5.01	1176.07	0.40	94.41
21.0-22.0	29.45	715.54	2.36	57.44	68.0-69.0	4.84	1180.91	0.39	94.80
22.0-23.0	26.39	741.93	2.12	59.56	69.0-70.0	4.67	1185.59	0.38	95.17
23.0-24.0	23.65	765.58	1.90	61.46	70.0-71.0	4.49	1190.08	0.36	95.54
24.0-25.0	21.32	786.90	1.71	63.17	71.0-72.0	4.31	1194.39	0.35	95.88
25.0-26.0	19.42	806.32	1.56	64.73	72.0-73.0	4.11	1198.49	0.33	96.21
26.0-27.0	17.91	824.23	1.44	66.17	73.0-74.0	3.90	1202.39	0.31	96.52
27.0-28.0	16.72	840.95	1.34	67.51	74.0-75.0	3.68	1206.07	0.30	96.82
28.0-29.0	15.76	856.71	1.27	68.77	75.0-76.0	3.45	1209.52	0.28	97.10
29.0-30.0	14.96	871.67	1.20	69.97	76.0-77.0	3.21	1212.73	0.26	97.35
30.0-31.0	14.27	885.93	1.15	71.12	77.0-78.0	2.96	1215.69	0.24	97.59
31.0-32.0	13.64	899.57	1.09	72.21	78.0-79.0	2.69	1218.38	0.22	97.81
32.0-33.0	13.05	912.62	1.05	73.26	79.0-80.0	2.42	1220.81	0.19	98.00
33.0-34.0	12.49	925.10	1.00	74.26	80.0-81.0	2.15	1222.96	0.17	98.17
34.0-35.0	11.95	937.05	0.96	75.22	81.0-82.0	1.87	1224.83	0.15	98.32
35.0-36.0	11.44	948.50	0.92	76.14	82.0-83.0	1.60	1226.43	0.13	98.45
36.0-37.0	10.96	959.46	0.88	77.02	83.0-84.0	1.33	1227.76	0.11	98.56
37.0-38.0	10.50	969.96	0.84	77.86	84.0-85.0	1.08	1228.84	0.09	98.65
38.0-39.0	10.07	980.03	0.81	78.67	85.0-86.0	0.85	1229.69	0.07	98.72
39.0-40.0	9.66	989.69	0.78	79.45	86.0-87.0	0.64	1230.34	0.05	98.77
40.0-41.0	9.27	998.96	0.74	80.19	87.0-88.0	0.47	1230.81	0.04	98.80
41.0-42.0	8.91	1007.87	0.72	80.91	88.0-89.0	0.34	1231.15	0.03	98.83
42.0-43.0	8.57	1016.44	0.69	81.60	89.0-90.0	0.25	1231.40	0.02	98.85
43.0-44.0	8.25	1024.69	0.66	82.26	90.0-91.0	0.19	1231.58	0.01	98.87
44.0-45.0	7.96	1032.65	0.64	82.90	91.0-92.0	0.13	1231.72	0.01	98.88
45.0-46.0	7.69	1040.34	0.62	83.51	92.0-93.0	0.09	1231.80	0.01	98.88
46.0-47.0	7.45	1047.79	0.60	84.11	93.0-94.0	0.06	1231.87	0.01	98.89

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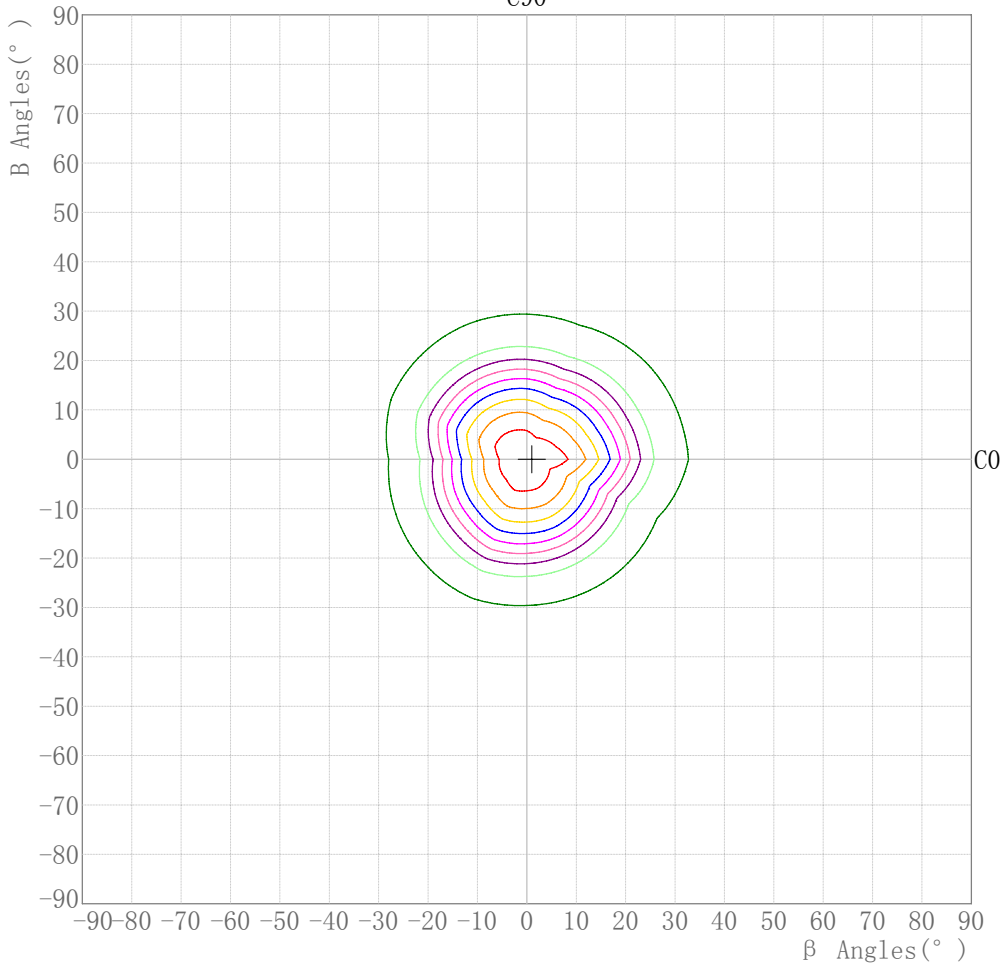
## Zonal Flux Tabulation - (Cont.)

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	0.05	1231.92	0.00	98.89	141.0-142.0	0.27	1237.68	0.02	99.36
95.0-96.0	0.05	1231.97	0.00	98.90	142.0-143.0	0.28	1237.96	0.02	99.38
96.0-97.0	0.05	1232.02	0.00	98.90	143.0-144.0	0.29	1238.24	0.02	99.40
97.0-98.0	0.05	1232.08	0.00	98.91	144.0-145.0	0.29	1238.53	0.02	99.42
98.0-99.0	0.06	1232.13	0.00	98.91	145.0-146.0	0.30	1238.83	0.02	99.45
99.0-100.0	0.06	1232.19	0.00	98.92	146.0-147.0	0.30	1239.13	0.02	99.47
100.0-101.0	0.06	1232.25	0.00	98.92	147.0-148.0	0.30	1239.44	0.02	99.50
101.0-102.0	0.06	1232.31	0.00	98.92	148.0-149.0	0.31	1239.74	0.02	99.52
102.0-103.0	0.06	1232.37	0.00	98.93	149.0-150.0	0.31	1240.05	0.02	99.55
103.0-104.0	0.06	1232.43	0.01	98.93	150.0-151.0	0.31	1240.36	0.02	99.57
104.0-105.0	0.06	1232.49	0.01	98.94	151.0-152.0	0.31	1240.67	0.02	99.60
105.0-106.0	0.07	1232.56	0.01	98.95	152.0-153.0	0.31	1240.98	0.02	99.62
106.0-107.0	0.07	1232.63	0.01	98.95	153.0-154.0	0.30	1241.28	0.02	99.65
107.0-108.0	0.07	1232.70	0.01	98.96	154.0-155.0	0.30	1241.58	0.02	99.67
108.0-109.0	0.07	1232.77	0.01	98.96	155.0-156.0	0.30	1241.88	0.02	99.69
109.0-110.0	0.07	1232.84	0.01	98.97	156.0-157.0	0.29	1242.17	0.02	99.72
110.0-111.0	0.07	1232.92	0.01	98.97	157.0-158.0	0.28	1242.45	0.02	99.74
111.0-112.0	0.08	1232.99	0.01	98.98	158.0-159.0	0.28	1242.73	0.02	99.76
112.0-113.0	0.08	1233.07	0.01	98.99	159.0-160.0	0.27	1243.00	0.02	99.78
113.0-114.0	0.08	1233.15	0.01	98.99	160.0-161.0	0.26	1243.26	0.02	99.80
114.0-115.0	0.08	1233.24	0.01	99.00	161.0-162.0	0.25	1243.50	0.02	99.82
115.0-116.0	0.09	1233.32	0.01	99.01	162.0-163.0	0.24	1243.74	0.02	99.84
116.0-117.0	0.09	1233.41	0.01	99.01	163.0-164.0	0.22	1243.96	0.02	99.86
117.0-118.0	0.09	1233.50	0.01	99.02	164.0-165.0	0.21	1244.17	0.02	99.88
118.0-119.0	0.09	1233.60	0.01	99.03	165.0-166.0	0.20	1244.37	0.02	99.89
119.0-120.0	0.10	1233.70	0.01	99.04	166.0-167.0	0.18	1244.55	0.01	99.91
120.0-121.0	0.10	1233.80	0.01	99.04	167.0-168.0	0.17	1244.72	0.01	99.92
121.0-122.0	0.11	1233.91	0.01	99.05	168.0-169.0	0.16	1244.88	0.01	99.93
122.0-123.0	0.11	1234.02	0.01	99.06	169.0-170.0	0.14	1245.02	0.01	99.95
123.0-124.0	0.12	1234.14	0.01	99.07	170.0-171.0	0.13	1245.15	0.01	99.96
124.0-125.0	0.12	1234.26	0.01	99.08	171.0-172.0	0.11	1245.26	0.01	99.96
125.0-126.0	0.13	1234.39	0.01	99.09	172.0-173.0	0.10	1245.36	0.01	99.97
126.0-127.0	0.14	1234.53	0.01	99.10	173.0-174.0	0.09	1245.45	0.01	99.98
127.0-128.0	0.15	1234.68	0.01	99.12	174.0-175.0	0.07	1245.52	0.01	99.99
128.0-129.0	0.15	1234.84	0.01	99.13	175.0-176.0	0.06	1245.59	0.00	99.99
129.0-130.0	0.16	1235.00	0.01	99.14	176.0-177.0	0.05	1245.63	0.00	99.99
130.0-131.0	0.17	1235.17	0.01	99.15	177.0-178.0	0.03	1245.67	0.00	100.00
131.0-132.0	0.18	1235.35	0.01	99.17	178.0-179.0	0.02	1245.69	0.00	100.00
132.0-133.0	0.19	1235.54	0.02	99.18	179.0-180.0	0.01	1245.70	0.00	100.00
133.0-134.0	0.20	1235.74	0.02	99.20					
134.0-135.0	0.21	1235.95	0.02	99.22					
135.0-136.0	0.22	1236.17	0.02	99.24					
136.0-137.0	0.23	1236.40	0.02	99.25					
137.0-138.0	0.24	1236.64	0.02	99.27					
138.0-139.0	0.25	1236.89	0.02	99.29					
139.0-140.0	0.26	1237.14	0.02	99.31					
140.0-141.0	0.26	1237.41	0.02	99.33					

**Rectangle ISO Lighting Intensity Diagram**

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

ISO Lighting Intensity Curve  
 C90

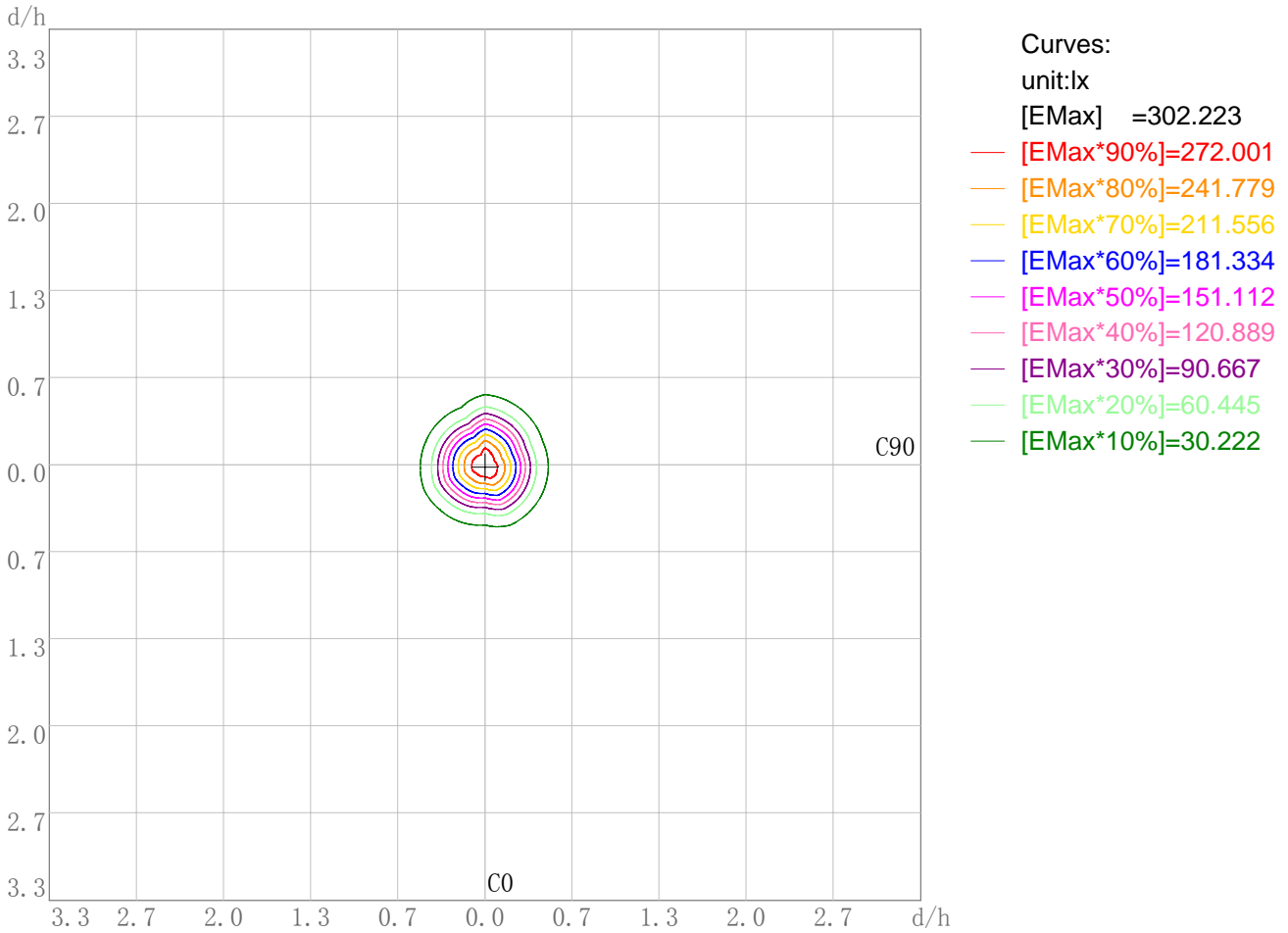


Maximum Light Intensity(cd): 2721.25  
 Maximum Cand.@Angle: H=1.0°,V=0.0°

**Plane ISO-Illuminance Diagram**

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

Plane ISO-Illuminance Curve

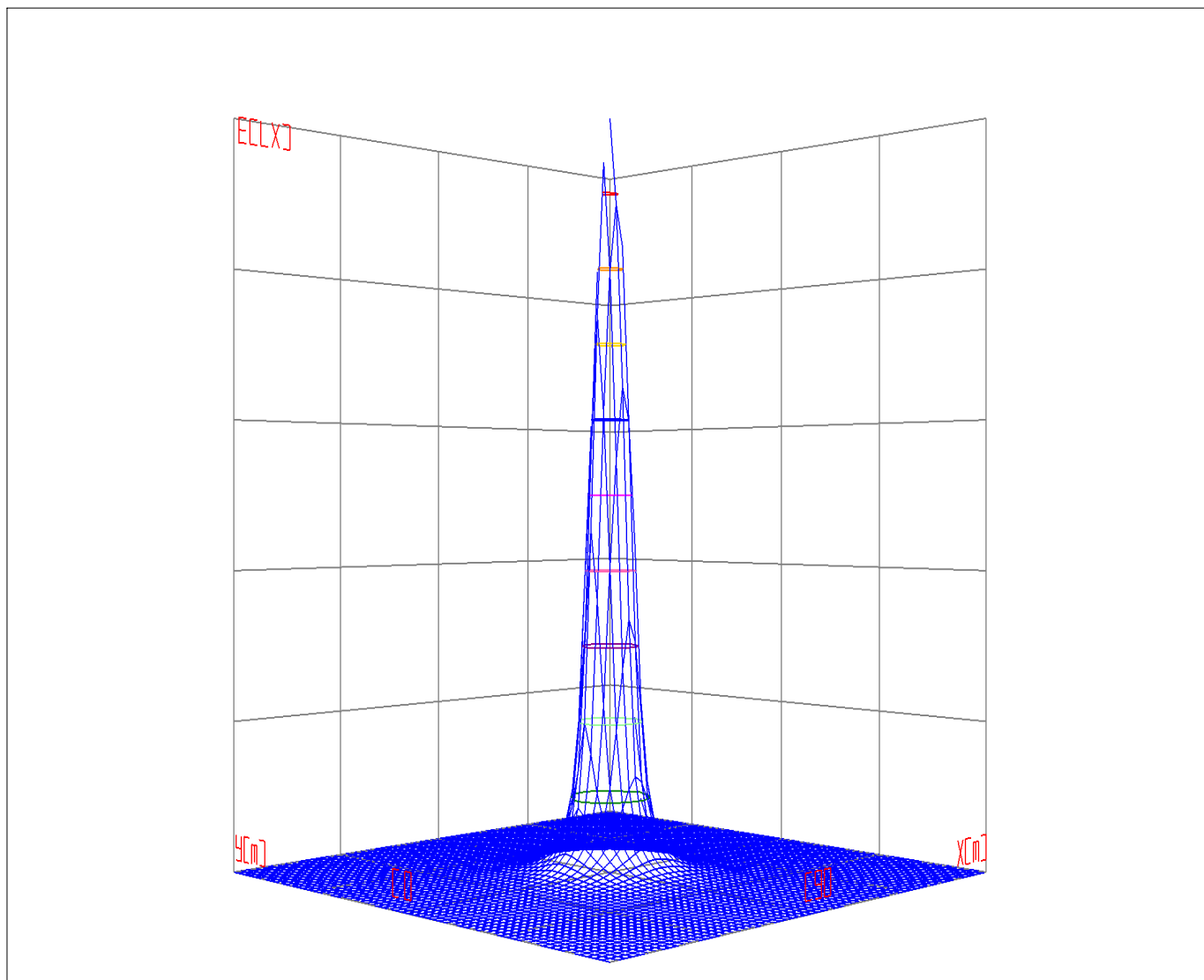


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 302.22  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

### 3D Plane ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

3D Plane Illuminance Modal



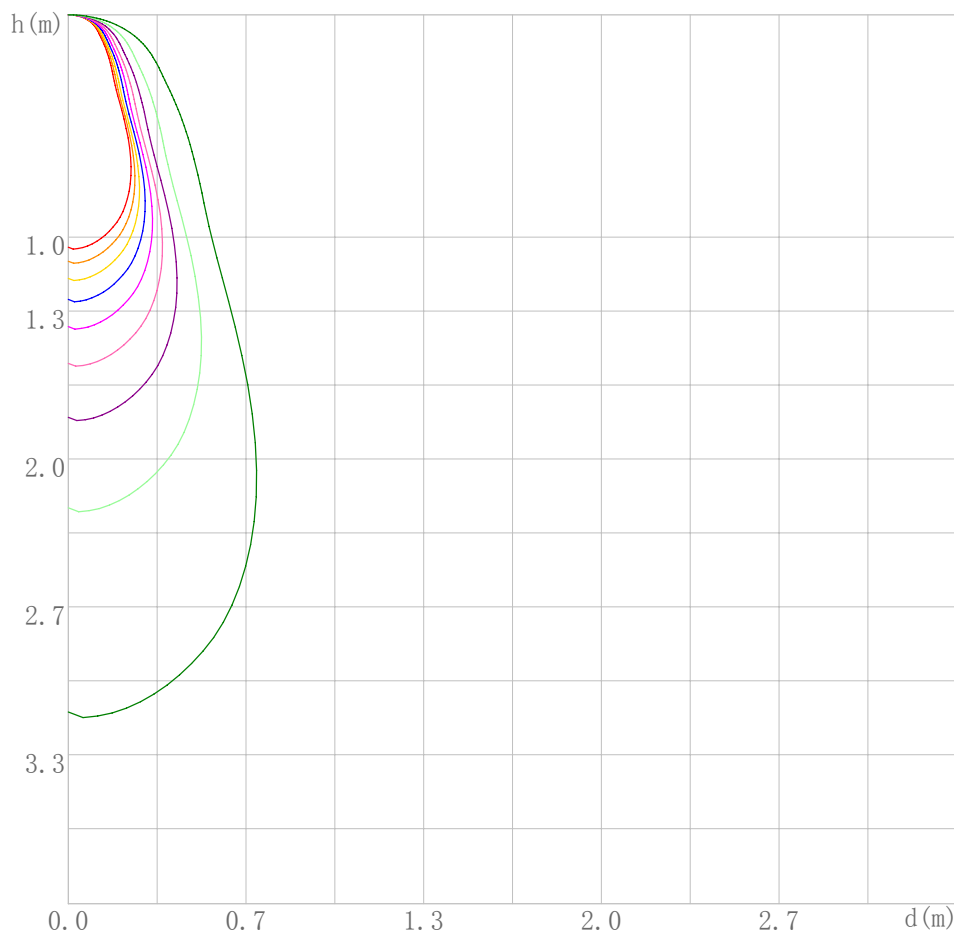
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0



**Space ISO Illuminance Diagram**

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacturer:	Test Machine:GON-2000	Test Date: 2019/11/25

Space ISO Illuminance Curve



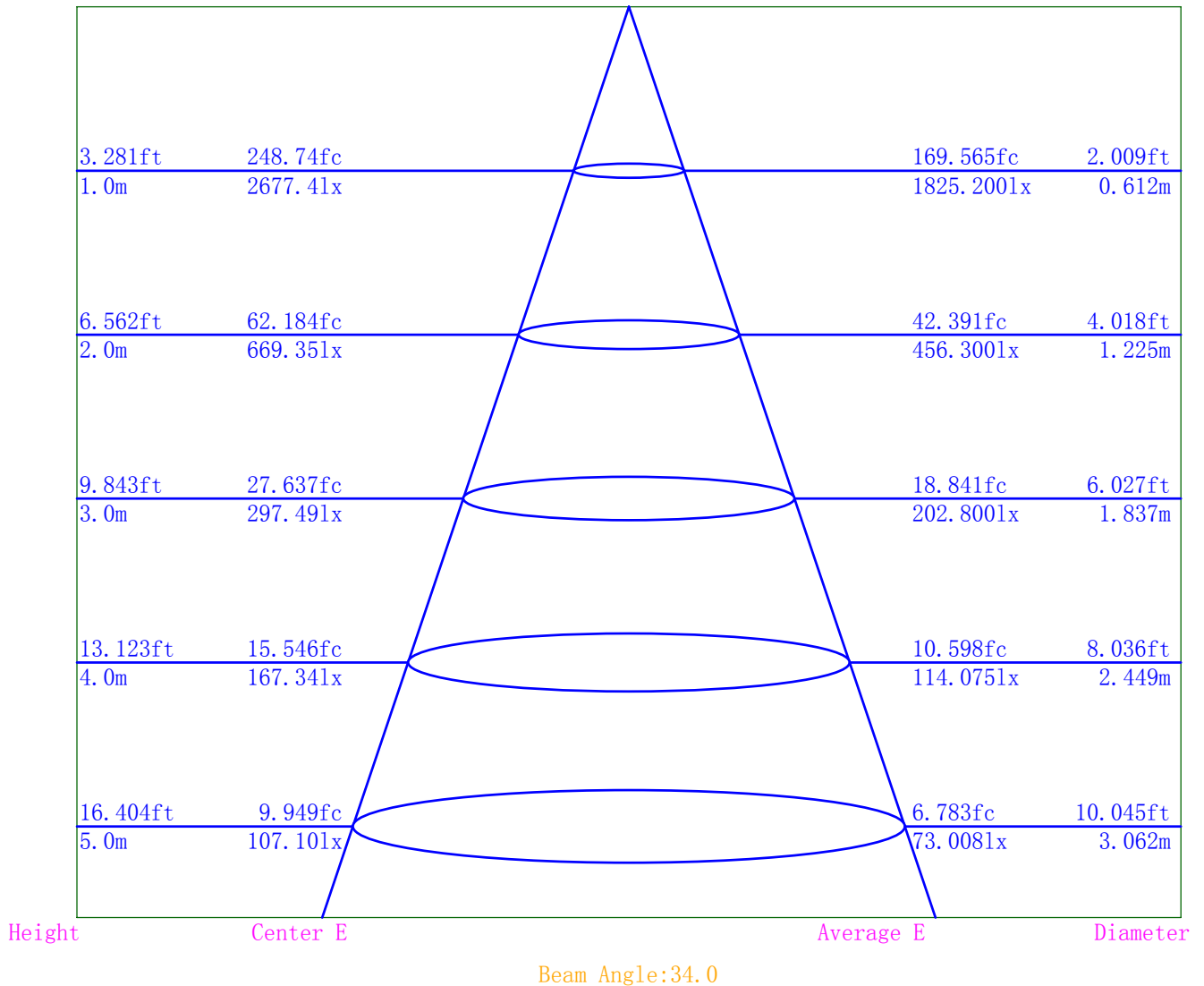
- Curves:  
 [Unit: lx]  
 [EMax] =2720.011
- [EMax\*90%]=2448.010
  - [EMax\*80%]=2176.009
  - [EMax\*70%]=1904.008
  - [EMax\*60%]=1632.006
  - [EMax\*50%]=1360.005
  - [EMax\*40%]=1088.004
  - [EMax\*30%]=816.003
  - [EMax\*20%]=544.002
  - [EMax\*10%]=272.001

Space Plane Maximum Illuminance and @Angle:2720.01lx,1.0deg  
 Plane Maximum Lighting Intensity and @Angle:2721.254cd,0deg

**Illuminance-Distance Diagram**

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

Illuminance-Distance Curve



**IES Indoor Report**  
**Photometric Filename:AR111 GU10-15W 45°.IES**

**Indoor Luminance Limiting Curves**

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

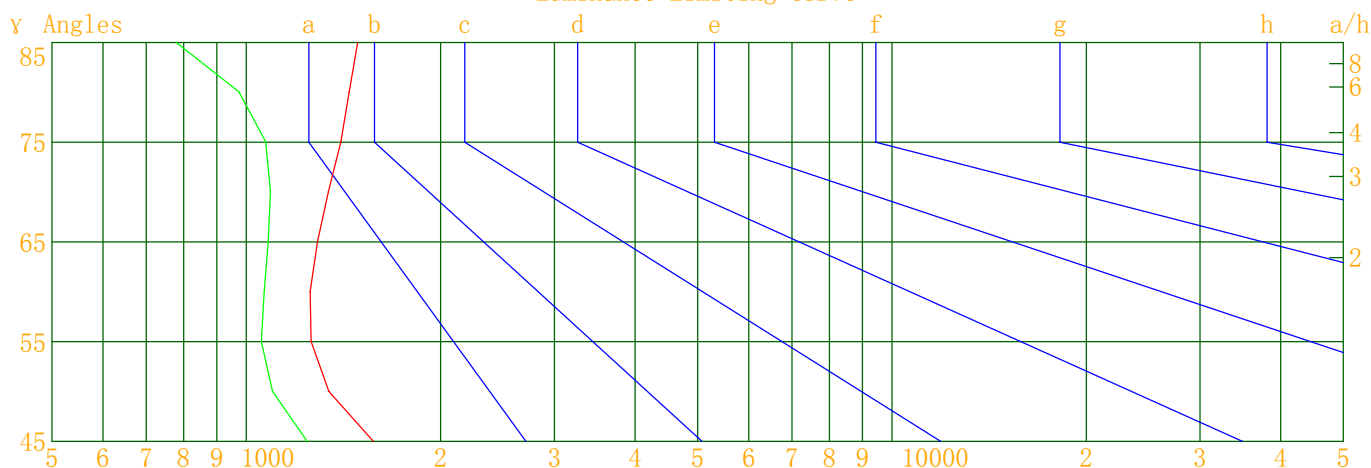
Glare Grade Table

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	1574	1342	1260	1256	1289	1340	1401	1443	1488
C90	1243	1098	1055	1066	1082	1090	1071	974	779

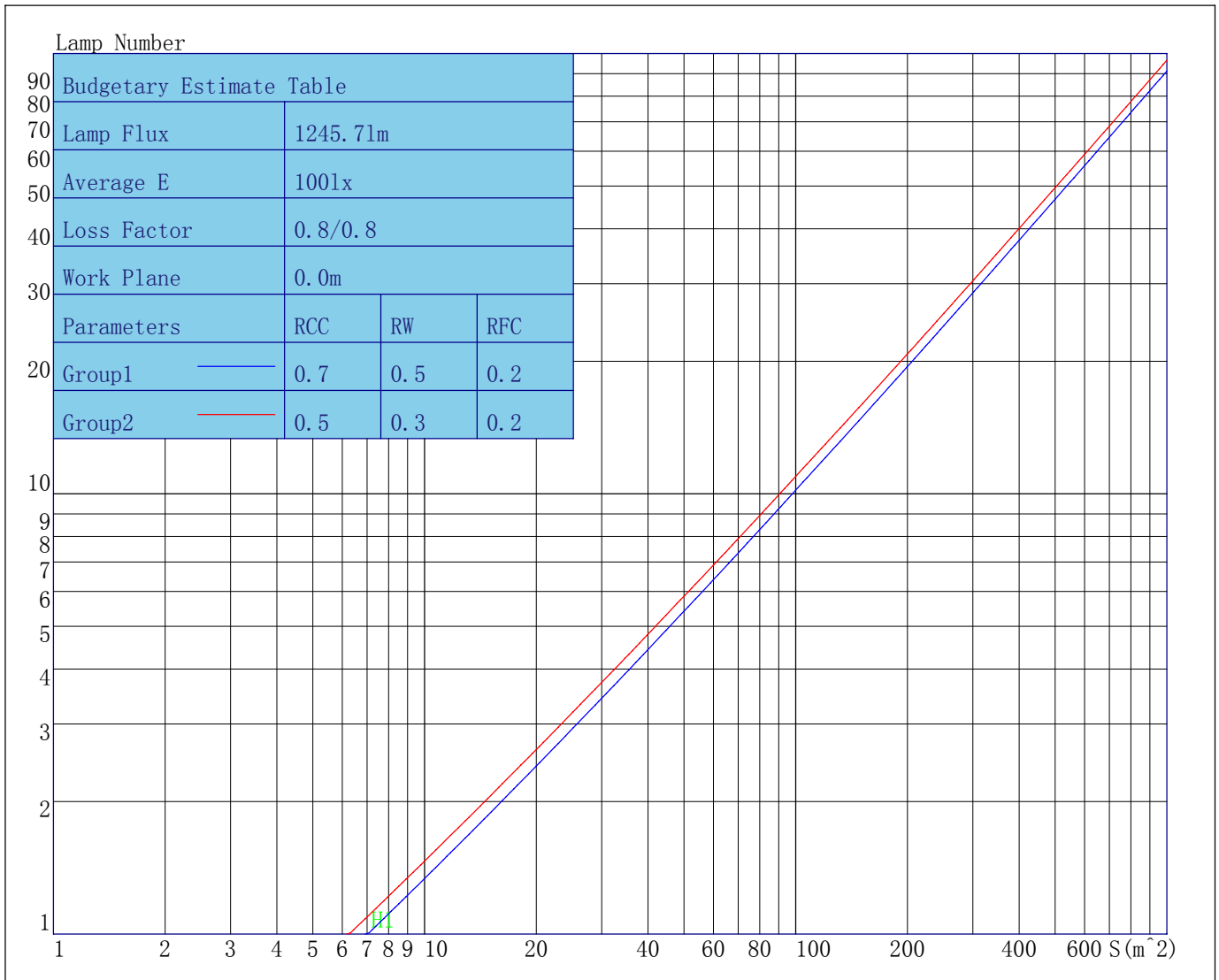
Luminance Limiting Curve



Luminous Size: Length(m)=1.410 Width(m)=0.070 Height(m)=0.010 Area(m<sup>2</sup>)=0.112800  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

**Indoor Budgetary Estimate Table**

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25



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

# IES Indoor Report

Photometric Filename:AR111 GU10-15W 45°.IES

## Indoor Coefficient of Utilization Table

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE
Manufacture:	Test Machine:GON-2000	Test Date: 2019/11/25

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	110	110	110	106	106	106	101	101	101	99
1	112	109	106	104	110	107	104	102	102	100	99	99	97	95	95	94	92	90
2	106	101	96	92	104	99	95	91	95	92	89	92	89	87	89	87	85	83
3	101	94	88	84	98	92	87	83	89	85	82	87	83	80	84	81	79	77
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	76	74	72
5	91	82	76	72	89	81	76	72	79	75	71	78	73	70	76	72	69	68
6	87	78	72	67	85	77	71	67	75	70	67	74	69	66	72	69	66	64
7	83	74	68	64	82	73	67	63	72	67	63	70	66	63	69	65	62	61
8	80	70	64	60	78	70	64	60	69	63	60	67	63	60	66	62	59	58
9	77	67	61	58	75	67	61	57	66	61	57	65	60	57	64	60	57	55
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53

**IES Indoor Report**  
**Photometric Filename:AR111 GU10-15W 45°.IES**

**Unified Glare Rating Table**

<b>Lum. Name:</b>	<b>Lum. Catalog:</b>	<b>Test ID:</b>
<b>Lamp Name:</b>	<b>Lamp Catalog:</b>	<b>Test Lab: YIZHENG PRODUCT TECHNICAL SERVICE</b>
<b>Manufacture:</b>	<b>Test Machine:GON-2000</b>	<b>Test Date: 2019/11/25</b>

**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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	10.4	11.6	10.8	12.0	12.3	9.8	10.9	10.1	11.3	11.6
Y=3H	12.2	13.3	12.6	13.6	14.0	11.4	12.4	11.8	12.8	13.2
Y=4H	13.1	14.1	13.5	14.4	14.9	12.1	13.1	12.6	13.5	13.9
Y=6H	13.8	14.7	14.3	15.1	15.6	12.7	13.6	13.1	14.0	14.4
Y=8H	14.1	15.0	14.6	15.4	15.8	12.8	13.7	13.3	14.1	14.5
Y=12H	14.4	15.2	14.8	15.6	16.0	12.9	13.7	13.4	14.1	14.6
X=4H Y=2H	11.0	12.0	11.4	12.3	12.8	10.5	11.4	10.9	11.8	12.2
Y=3H	13.0	13.8	13.4	14.2	14.7	12.3	13.1	12.8	13.6	14.0
Y=4H	14.0	14.7	14.4	15.1	15.6	13.2	13.9	13.6	14.3	14.8
Y=6H	14.9	15.5	15.3	15.9	16.4	13.8	14.5	14.3	14.9	15.4
Y=8H	15.2	15.8	15.7	16.2	16.7	14.0	14.6	14.5	15.1	15.6
Y=12H	15.5	16.0	16.0	16.5	17.0	14.1	14.7	14.7	15.2	15.7
X=8H Y=4H	14.2	14.8	14.7	15.3	15.8	13.6	14.1	14.1	14.6	15.1
Y=6H	15.2	15.7	15.8	16.2	16.8	14.4	14.8	14.9	15.3	15.9
Y=8H	15.6	16.1	16.2	16.6	17.1	14.6	15.0	15.2	15.6	16.1
Y=12H	16.0	16.4	16.5	16.9	17.5	14.8	15.2	15.3	15.7	16.3
X=12H Y=4H	14.2	14.8	14.8	15.3	15.8	13.6	14.1	14.1	14.6	15.1
Y=6H	15.3	15.7	15.8	16.2	16.8	14.4	14.9	15.0	15.3	15.9
Y=8H	15.7	16.1	16.3	16.6	17.2	14.7	15.1	15.3	15.6	16.2
Variations with the observer position at spacings										
S=1.0H	0.4/-0.4					0.5/-0.6				
S=1.5H	0.6/-0.7					0.8/-1.0				
S=2.0H	0.7/-0.8					0.9/-1.2				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	3.3					3.1				

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

**IES Indoor Report**  
**Photometric Filename:AR111 GU10-15W 45°.IES**

**Candela Tabulation**

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
Y 0.0	2677.40	2677.40	2677.40	2677.40	2677.40	2677.40	2677.40	2677.40	2677.40	2677.40	2677.40	2677.40
Y 1.0	2721.25	2671.19	2639.27	2620.39	2652.02	2672.37	2686.03	2679.03	2693.01	2667.19	2647.82	2650.00
Y 2.0	2713.36	2650.18	2615.82	2588.46	2629.07	2650.18	2669.23	2670.55	2660.25	2645.93	2628.76	2643.09
Y 3.0	2695.82	2619.04	2579.05	2546.77	2592.78	2619.75	2640.06	2647.41	2614.00	2609.77	2596.93	2622.62
Y 4.0	2666.76	2578.49	2531.26	2492.00	2550.35	2579.35	2601.56	2610.15	2557.26	2561.80	2555.83	2586.99
Y 5.0	2629.01	2529.41	2477.71	2432.53	2497.41	2531.13	2555.33	2562.57	2493.23	2501.89	2503.72	2543.69
Y 6.0	2583.83	2476.94	2417.88	2368.61	2436.54	2473.08	2504.80	2510.65	2420.43	2435.25	2439.36	2492.99
Y 7.0	2530.09	2417.21	2353.44	2298.34	2369.78	2407.50	2441.51	2450.60	2339.21	2362.07	2368.66	2432.11
Y 8.0	2470.62	2349.91	2283.50	2220.29	2295.92	2338.44	2373.61	2380.89	2249.30	2277.72	2292.75	2363.19
Y 9.0	2404.82	2277.02	2204.14	2132.50	2215.26	2260.35	2298.99	2307.87	2146.92	2184.38	2207.12	2287.60
Y 10.0	2334.58	2197.75	2114.28	2033.91	2124.49	2174.27	2216.27	2224.71	2037.01	2084.35	2115.66	2204.32
Y 11.0	2258.04	2110.18	2018.59	1928.09	2023.30	2077.23	2125.80	2132.71	1919.71	1977.14	2015.65	2114.81
Y 12.0	2172.59	2012.90	1916.53	1815.45	1912.76	1970.65	2024.40	2034.17	1794.52	1863.70	1908.00	2016.91
Y 13.0	2075.77	1906.19	1806.17	1697.66	1795.96	1856.45	1914.74	1926.94	1661.33	1744.05	1793.26	1911.10
Y 14.0	1970.04	1794.50	1689.74	1572.87	1671.73	1734.35	1797.37	1812.39	1521.08	1618.22	1675.74	1798.20
Y 15.0	1857.97	1679.71	1569.97	1437.86	1539.69	1603.21	1671.20	1690.64	1376.38	1485.60	1553.31	1680.25
Y 16.0	1739.81	1559.82	1442.78	1300.56	1401.78	1466.66	1537.57	1561.65	1230.09	1347.00	1425.46	1558.11
Y 17.0	1616.59	1433.36	1310.91	1163.75	1261.06	1323.98	1396.39	1425.34	1085.68	1207.21	1291.04	1430.82
Y 18.0	1487.14	1303.23	1177.38	1027.88	1118.22	1179.79	1250.47	1284.32	945.28	1068.55	1156.24	1296.10
Y 19.0	1352.48	1170.49	1043.45	896.76	978.37	1038.74	1104.93	1143.03	814.01	934.10	1025.24	1160.86
Y 20.0	1215.88	1039.39	914.42	775.31	844.88	901.47	962.82	1004.25	697.49	805.94	897.27	1026.95
Y 21.0	1078.85	910.62	791.47	665.14	722.74	773.38	826.64	869.06	596.38	690.17	774.75	895.89
Y 22.0	945.53	789.31	678.51	571.21	614.72	660.25	704.27	744.80	511.74	590.70	664.58	772.19
Y 23.0	819.62	679.74	581.95	494.92	527.62	563.84	599.25	634.97	444.47	507.10	569.18	660.65
Y 24.0	705.12	584.64	503.08	433.99	459.10	485.64	511.67	541.57	392.52	439.18	488.52	565.16
Y 25.0	606.24	507.29	441.01	386.79	405.19	424.42	441.67	465.08	351.90	386.51	424.12	485.02
Y 26.0	525.04	446.35	392.63	349.80	363.49	377.22	388.08	405.43	319.81	345.38	373.65	419.77
Y 27.0	459.87	397.99	354.48	319.66	330.28	340.23	346.54	358.85	293.49	312.52	334.08	369.40
Y 28.0	408.50	359.90	323.75	294.40	302.90	310.59	313.70	322.34	271.39	286.05	302.77	330.19
Y 29.0	368.27	328.99	298.39	272.63	279.89	286.03	287.12	293.09	252.04	264.01	277.38	298.91
Y 30.0	336.07	303.54	276.53	253.16	259.74	264.92	264.87	269.08	234.40	244.81	256.14	273.50
Y 31.0	309.37	281.70	256.88	235.68	241.47	245.99	245.49	248.67	218.29	227.68	237.78	252.30
Y 32.0	286.67	262.15	239.10	219.90	224.83	228.78	227.92	230.67	203.54	212.05	221.22	233.96
Y 33.0	266.38	244.21	223.05	205.53	209.66	213.05	211.93	214.43	189.94	197.59	206.02	217.54
Y 34.0	247.90	227.86	208.38	192.28	195.65	198.59	197.24	199.48	177.44	184.33	192.13	202.36
Y 35.0	231.22	212.92	195.17	180.11	182.77	185.31	183.77	185.68	166.14	172.17	179.25	188.49
Y 36.0	216.17	199.22	183.05	168.85	170.85	173.09	171.47	172.98	155.66	161.12	167.54	175.69
Y 37.0	202.38	186.72	171.92	158.44	159.90	161.93	160.26	161.43	146.00	150.83	156.77	164.10
Y 38.0	189.84	175.25	161.57	148.84	149.76	151.76	150.00	150.83	137.07	141.29	146.80	153.49
Y 39.0	178.37	164.72	152.04	140.05	140.43	142.30	140.56	141.08	128.85	132.54	137.49	143.77
Y 40.0	167.79	155.05	143.21	132.07	131.90	133.69	131.86	132.15	121.44	124.50	128.92	134.92
Y 41.0	158.03	146.17	135.16	124.70	124.13	125.89	124.00	123.96	114.54	117.17	120.99	126.82
Y 42.0	148.95	138.08	127.67	117.90	116.94	118.69	116.81	116.58	108.15	110.37	113.79	119.40
Y 43.0	140.55	130.65	120.71	111.70	110.40	112.09	110.23	109.89	102.42	104.21	107.15	112.63
Y 44.0	132.81	123.82	114.41	106.08	104.49	106.10	104.24	103.76	97.25	98.62	101.12	106.43
Y 45.0	125.50	117.61	108.66	100.95	99.15	100.62	98.78	98.15	92.59	93.64	95.69	100.71
Y 46.0	118.78	111.86	103.49	96.31	94.28	95.68	93.93	93.13	88.53	89.18	90.87	95.51

**IES Indoor Report**  
**Photometric Filename:AR111 GU10-15W 45°.IES**

**Candela Tabulation - (Cont.)**

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
Y 47.0	112.70	106.60	98.80	92.12	89.91	91.18	89.60	88.65	85.10	85.30	86.62	90.86
Y 48.0	107.10	101.77	94.57	88.57	86.01	87.18	85.72	84.64	82.19	81.96	82.97	86.61
Y 49.0	101.95	97.54	90.97	85.45	82.63	83.75	82.36	81.14	79.64	79.14	79.83	82.89
Y 50.0	97.31	94.04	87.83	82.46	79.63	80.85	79.66	78.21	77.37	76.65	77.23	79.69
Y 51.0	93.30	91.06	84.84	79.84	76.90	78.11	77.23	75.78	75.40	74.42	74.99	77.03
Y 52.0	89.89	88.39	82.34	77.50	74.59	75.72	74.99	73.52	73.41	72.45	72.92	74.69
Y 53.0	86.71	86.06	80.10	75.18	72.46	73.75	73.26	71.58	71.35	70.56	71.03	72.48
Y 54.0	83.97	84.11	77.81	72.83	70.26	71.63	71.62	69.93	69.15	68.55	69.38	70.44
Y 55.0	81.51	82.57	75.40	70.70	68.24	69.46	69.75	68.30	67.31	66.58	67.53	68.57
Y 56.0	79.18	80.91	73.27	68.86	66.51	67.37	67.93	66.44	65.71	64.89	65.55	66.69
Y 57.0	76.68	79.38	71.40	67.18	64.88	65.61	66.40	64.53	64.17	63.42	63.87	64.86
Y 58.0	74.48	77.98	69.52	65.45	63.26	64.06	65.07	62.95	62.44	62.05	62.50	63.24
Y 59.0	72.57	76.50	67.65	63.57	61.72	62.50	63.76	61.63	60.76	60.57	61.15	61.85
Y 60.0	70.82	74.86	65.79	61.70	60.12	60.80	62.27	60.29	59.25	59.06	59.60	60.42
Y 61.0	68.98	73.03	64.00	59.88	58.49	59.16	60.69	58.84	57.73	57.71	58.15	59.01
Y 62.0	67.06	71.18	62.15	58.03	56.85	57.56	59.16	57.46	56.22	56.33	56.74	57.51
Y 63.0	65.18	69.05	60.27	56.14	55.14	55.90	57.56	56.16	54.65	54.85	55.34	56.09
Y 64.0	63.33	66.36	58.35	54.15	53.37	54.20	55.85	54.81	53.01	53.33	53.92	54.65
Y 65.0	61.46	63.53	56.35	52.12	51.56	52.42	54.13	53.36	51.27	51.79	52.46	53.20
Y 66.0	59.56	61.29	54.33	50.09	49.72	50.63	52.31	51.86	49.49	50.13	50.88	51.68
Y 67.0	57.67	58.94	52.24	48.05	47.83	48.83	50.45	50.26	47.62	48.39	49.22	50.06
Y 68.0	55.72	56.40	50.11	45.97	45.94	46.96	48.57	48.61	45.68	46.62	47.47	48.35
Y 69.0	53.75	53.82	47.96	43.88	44.03	45.07	46.67	46.88	43.64	44.74	45.63	46.57
Y 70.0	51.72	51.35	45.74	41.76	42.06	43.14	44.71	45.07	41.51	42.80	43.73	44.71
Y 71.0	49.64	48.95	43.56	39.58	40.02	41.12	42.77	43.25	39.29	40.74	41.76	42.80
Y 72.0	47.52	46.63	41.35	37.38	37.91	39.06	40.69	41.30	36.98	38.59	39.64	40.79
Y 73.0	45.34	44.32	39.10	35.11	35.76	36.94	38.57	39.25	34.63	36.35	37.48	38.72
Y 74.0	43.15	42.00	36.81	32.80	33.55	34.79	36.35	37.12	32.19	34.03	35.29	36.59
Y 75.0	40.90	39.59	34.44	30.42	31.28	32.53	34.06	34.93	29.68	31.64	32.99	34.39
Y 76.0	38.54	37.06	31.98	27.97	28.94	30.22	31.69	32.63	27.13	29.17	30.62	32.12
Y 77.0	36.10	34.45	29.43	25.45	26.53	27.84	29.25	30.25	24.54	26.64	28.18	29.80
Y 78.0	33.58	31.72	26.80	22.87	24.07	25.40	26.73	27.79	21.90	24.03	25.66	27.41
Y 79.0	30.95	28.87	24.07	20.25	21.59	22.91	24.17	25.25	19.26	21.39	23.13	24.94
Y 80.0	28.27	25.97	21.31	17.65	19.07	20.42	21.57	22.67	16.64	18.75	20.57	22.46
Y 81.0	25.52	23.00	18.52	15.06	16.60	17.91	18.98	20.03	14.05	16.13	18.01	19.94
Y 82.0	22.74	20.04	15.78	12.56	14.15	15.44	16.41	17.40	11.56	13.54	15.46	17.43
Y 83.0	19.98	17.11	13.15	10.18	11.83	13.03	13.92	14.83	9.15	11.06	12.98	14.97
Y 84.0	17.26	14.25	10.65	8.00	9.66	10.75	11.56	12.34	6.93	8.69	10.58	12.54
Y 85.0	14.62	11.58	8.35	6.07	7.66	8.63	9.33	9.99	5.00	6.49	8.32	10.21
Y 86.0	12.13	9.16	6.32	4.45	5.91	6.74	7.28	7.82	3.38	4.54	6.24	8.01
Y 87.0	9.80	6.99	4.64	3.24	4.52	5.14	5.51	5.84	2.18	2.87	4.30	6.00
Y 88.0	7.70	5.23	3.39	2.45	3.50	3.93	4.08	4.21	1.22	1.57	2.56	4.21
Y 89.0	5.89	3.83	2.54	2.07	2.86	3.07	3.08	2.93	0.42	0.71	1.25	2.72
Y 90.0	4.44	2.93	2.18	1.85	2.57	2.59	2.43	2.06	0.40	0.45	0.54	1.58
Y 91.0	3.47	2.46	1.87	1.48	2.19	2.24	2.00	1.43	0.42	0.47	0.42	0.62
Y 92.0	2.93	2.03	1.44	0.66	1.21	1.40	1.17	0.68	0.43	0.47	0.43	0.46
Y 93.0	2.59	1.19	0.57	0.45	0.47	0.44	0.54	0.42	0.46	0.48	0.44	0.45



# IES Indoor Report

Photometric Filename:AR111 GU10-15W 45°.IES

## Candela Tabulation - (Cont.)

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
Y 94.0	1.40	0.42	0.47	0.44	0.47	0.41	0.48	0.43	0.47	0.48	0.44	0.47
Y 95.0	0.45	0.43	0.48	0.48	0.48	0.44	0.48	0.42	0.48	0.52	0.46	0.48
Y 96.0	0.46	0.43	0.49	0.47	0.49	0.44	0.49	0.44	0.51	0.52	0.48	0.50
Y 97.0	0.47	0.45	0.51	0.49	0.48	0.46	0.49	0.45	0.52	0.54	0.50	0.51
Y 98.0	0.48	0.46	0.53	0.51	0.51	0.47	0.50	0.45	0.56	0.55	0.51	0.53
Y 99.0	0.48	0.47	0.52	0.52	0.52	0.49	0.51	0.47	0.57	0.57	0.54	0.54
Y 100.0	0.50	0.48	0.54	0.53	0.55	0.51	0.53	0.49	0.58	0.60	0.54	0.55
Y 101.0	0.53	0.49	0.56	0.54	0.56	0.52	0.54	0.50	0.61	0.60	0.56	0.56
Y 102.0	0.54	0.51	0.56	0.56	0.57	0.54	0.55	0.54	0.64	0.62	0.57	0.58
Y 103.0	0.54	0.54	0.57	0.58	0.59	0.55	0.57	0.54	0.66	0.64	0.60	0.60
Y 104.0	0.57	0.54	0.60	0.59	0.60	0.56	0.58	0.56	0.68	0.66	0.61	0.62
Y 105.0	0.57	0.55	0.62	0.61	0.61	0.59	0.61	0.58	0.71	0.68	0.63	0.63
Y 106.0	0.59	0.58	0.63	0.64	0.63	0.61	0.63	0.60	0.71	0.68	0.65	0.64
Y 107.0	0.60	0.61	0.65	0.65	0.66	0.63	0.63	0.61	0.74	0.72	0.67	0.68
Y 108.0	0.63	0.63	0.67	0.66	0.68	0.65	0.65	0.64	0.76	0.73	0.69	0.68
Y 109.0	0.63	0.64	0.68	0.67	0.70	0.66	0.65	0.65	0.78	0.77	0.72	0.70
Y 110.0	0.66	0.67	0.71	0.71	0.73	0.68	0.69	0.67	0.83	0.79	0.75	0.72
Y 111.0	0.67	0.69	0.74	0.73	0.75	0.70	0.71	0.70	0.85	0.81	0.78	0.75
Y 112.0	0.70	0.71	0.77	0.76	0.78	0.73	0.74	0.73	0.89	0.84	0.82	0.76
Y 113.0	0.72	0.74	0.79	0.78	0.79	0.75	0.76	0.75	0.92	0.87	0.83	0.81
Y 114.0	0.74	0.77	0.82	0.82	0.82	0.79	0.79	0.78	0.94	0.91	0.85	0.83
Y 115.0	0.76	0.81	0.84	0.87	0.86	0.82	0.82	0.80	0.99	0.94	0.88	0.86
Y 116.0	0.79	0.84	0.87	0.91	0.89	0.85	0.85	0.84	1.03	0.99	0.92	0.89
Y 117.0	0.82	0.87	0.91	0.94	0.93	0.89	0.88	0.86	1.07	1.02	0.96	0.92
Y 118.0	0.86	0.91	0.95	0.97	0.97	0.93	0.93	0.90	1.13	1.07	0.99	0.96
Y 119.0	0.90	0.94	0.99	1.02	1.01	0.95	0.95	0.94	1.19	1.13	1.05	1.01
Y 120.0	0.94	0.99	1.03	1.09	1.07	1.01	1.00	0.97	1.27	1.18	1.10	1.04
Y 121.0	0.98	1.05	1.09	1.15	1.11	1.08	1.06	1.03	1.35	1.26	1.17	1.10
Y 122.0	1.04	1.11	1.15	1.22	1.17	1.13	1.12	1.09	1.43	1.34	1.23	1.15
Y 123.0	1.10	1.18	1.23	1.30	1.25	1.20	1.19	1.14	1.54	1.42	1.32	1.24
Y 124.0	1.16	1.25	1.33	1.39	1.33	1.28	1.26	1.23	1.63	1.51	1.39	1.30
Y 125.0	1.23	1.34	1.42	1.49	1.43	1.37	1.34	1.30	1.74	1.61	1.48	1.38
Y 126.0	1.32	1.41	1.52	1.59	1.51	1.47	1.43	1.39	1.86	1.72	1.59	1.46
Y 127.0	1.42	1.52	1.61	1.70	1.62	1.57	1.54	1.48	1.99	1.83	1.68	1.56
Y 128.0	1.50	1.63	1.73	1.81	1.73	1.68	1.65	1.59	2.13	1.95	1.81	1.67
Y 129.0	1.61	1.75	1.85	1.94	1.86	1.80	1.75	1.69	2.29	2.09	1.94	1.77
Y 130.0	1.74	1.87	1.97	2.07	1.99	1.92	1.88	1.82	2.44	2.23	2.06	1.90
Y 131.0	1.86	1.99	2.11	2.21	2.13	2.05	2.00	1.95	2.59	2.37	2.20	2.04
Y 132.0	1.97	2.14	2.25	2.38	2.29	2.20	2.13	2.09	2.77	2.53	2.35	2.17
Y 133.0	2.11	2.29	2.40	2.54	2.43	2.35	2.28	2.22	2.95	2.70	2.52	2.32
Y 134.0	2.27	2.45	2.59	2.70	2.58	2.51	2.44	2.38	3.13	2.87	2.68	2.50
Y 135.0	2.42	2.61	2.73	2.87	2.74	2.67	2.61	2.54	3.34	3.04	2.85	2.65
Y 136.0	2.61	2.79	2.90	3.06	2.93	2.85	2.77	2.69	3.54	3.22	3.04	2.82
Y 137.0	2.78	2.96	3.08	3.23	3.09	3.01	2.94	2.88	3.73	3.41	3.22	2.98
Y 138.0	2.94	3.15	3.26	3.43	3.29	3.20	3.10	3.02	3.93	3.61	3.40	3.17
Y 139.0	3.13	3.34	3.46	3.60	3.47	3.37	3.29	3.20	4.15	3.81	3.59	3.36
Y 140.0	3.33	3.53	3.64	3.79	3.65	3.57	3.48	3.39	4.36	4.00	3.80	3.55

# IES Indoor Report

Photometric Filename:AR111 GU10-15W 45°.IES

## Candela Tabulation - (Cont.)

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
Y 141.0	3.53	3.72	3.84	3.97	3.84	3.75	3.67	3.58	4.58	4.20	3.98	3.74
Y 142.0	3.72	3.91	4.04	4.16	4.02	3.93	3.84	3.76	4.79	4.43	4.19	3.93
Y 143.0	3.92	4.11	4.22	4.37	4.20	4.13	4.01	3.95	5.01	4.64	4.40	4.14
Y 144.0	4.09	4.32	4.41	4.59	4.39	4.32	4.20	4.13	5.22	4.84	4.60	4.33
Y 145.0	4.31	4.52	4.62	4.77	4.59	4.50	4.41	4.33	5.44	5.05	4.80	4.54
Y 146.0	4.52	4.72	4.80	4.95	4.77	4.68	4.61	4.51	5.65	5.24	5.01	4.74
Y 147.0	4.71	4.92	4.99	5.16	4.95	4.86	4.80	4.71	5.86	5.45	5.21	4.94
Y 148.0	4.91	5.12	5.18	5.35	5.14	5.05	4.98	4.88	6.05	5.64	5.40	5.14
Y 149.0	5.11	5.30	5.38	5.53	5.32	5.23	5.17	5.07	6.24	5.84	5.62	5.34
Y 150.0	5.29	5.49	5.55	5.69	5.48	5.41	5.35	5.26	6.45	6.02	5.80	5.53
Y 151.0	5.49	5.68	5.72	5.85	5.65	5.57	5.53	5.44	6.64	6.21	5.97	5.69
Y 152.0	5.67	5.85	5.88	6.01	5.80	5.72	5.69	5.61	6.81	6.39	6.15	5.87
Y 153.0	5.85	6.02	6.05	6.16	5.97	5.89	5.84	5.78	6.98	6.55	6.33	6.03
Y 154.0	6.02	6.20	6.20	6.29	6.09	6.03	5.99	5.93	7.14	6.70	6.49	6.21
Y 155.0	6.22	6.34	6.34	6.43	6.25	6.18	6.13	6.08	7.28	6.84	6.64	6.36
Y 156.0	6.36	6.49	6.48	6.57	6.37	6.31	6.27	6.22	7.39	6.97	6.77	6.51
Y 157.0	6.50	6.64	6.61	6.69	6.48	6.44	6.40	6.37	7.52	7.09	6.90	6.65
Y 158.0	6.65	6.76	6.72	6.78	6.60	6.55	6.48	6.47	7.60	7.19	7.01	6.77
Y 159.0	6.78	6.88	6.81	6.86	6.69	6.64	6.60	6.57	7.69	7.27	7.11	6.87
Y 160.0	6.90	6.98	6.90	6.92	6.78	6.72	6.66	6.67	7.74	7.32	7.18	6.97
Y 161.0	7.00	7.07	6.96	6.98	6.83	6.79	6.73	6.75	7.77	7.38	7.25	7.05
Y 162.0	7.09	7.15	7.01	7.01	6.89	6.84	6.79	6.81	7.79	7.40	7.30	7.12
Y 163.0	7.16	7.21	7.07	7.05	6.92	6.88	6.83	6.84	7.80	7.43	7.34	7.16
Y 164.0	7.23	7.26	7.09	7.07	6.95	6.91	6.84	6.87	7.80	7.41	7.35	7.19
Y 165.0	7.26	7.30	7.11	7.07	6.95	6.92	6.86	6.88	7.77	7.41	7.34	7.20
Y 166.0	7.29	7.30	7.10	7.05	6.95	6.91	6.87	6.89	7.76	7.38	7.33	7.20
Y 167.0	7.28	7.29	7.08	7.05	6.93	6.90	6.86	6.88	7.73	7.34	7.30	7.19
Y 168.0	7.28	7.25	7.06	7.02	6.92	6.89	6.83	6.86	7.70	7.32	7.28	7.15
Y 169.0	7.24	7.23	7.03	6.99	6.90	6.86	6.81	6.86	7.68	7.29	7.24	7.13
Y 170.0	7.19	7.21	7.01	6.99	6.88	6.84	6.79	6.85	7.68	7.27	7.22	7.11
Y 171.0	7.19	7.16	6.96	6.96	6.86	6.83	6.77	6.77	7.67	7.26	7.21	7.10
Y 172.0	7.18	7.15	6.96	6.96	6.86	6.82	6.76	6.76	7.68	7.27	7.19	7.07
Y 173.0	7.18	7.17	6.97	6.97	6.86	6.81	6.76	6.76	7.68	7.26	7.20	7.07
Y 174.0	7.19	7.19	6.97	6.98	6.86	6.82	6.77	6.77	7.71	7.30	7.21	7.08
Y 175.0	7.21	7.22	6.99	7.03	6.88	6.84	6.78	6.80	7.74	7.30	7.22	7.09
Y 176.0	7.26	7.26	7.03	7.04	6.90	6.86	6.82	6.84	7.77	7.33	7.26	7.09
Y 177.0	7.34	7.31	7.07	7.07	6.93	6.90	6.86	6.88	7.79	7.37	7.29	7.12
Y 178.0	7.41	7.36	7.08	7.11	6.97	6.95	6.91	6.93	7.79	7.39	7.30	7.14
Y 179.0	7.48	7.39	7.13	7.13	7.01	7.02	6.96	6.99	7.76	7.36	7.31	7.12
Y 180.0	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24
V/H	C270.0	C292.5	C315.0	C337.5								
Y 0.0	2677.40	2677.40	2677.40	2677.40								
Y 1.0	2662.83	2674.20	2663.83	2641.61								
Y 2.0	2647.26	2649.70	2631.47	2606.65								
Y 3.0	2617.81	2617.02	2594.99	2560.88								
Y 4.0	2576.96	2575.46	2546.85	2509.00								
Y 5.0	2527.56	2522.63	2489.86	2451.86								

# IES Indoor Report

Photometric Filename:AR111 GU10-15W 45°.IES

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## Candela Tabulation - (Cont.)

V/H	C270.0	C292.5	C315.0	C337.5
Y 6.0	2473.44	2463.58	2428.12	2386.34
Y 7.0	2410.48	2398.59	2358.49	2316.66
Y 8.0	2339.06	2327.79	2285.75	2240.14
Y 9.0	2260.44	2249.87	2205.84	2156.55
Y 10.0	2173.69	2163.89	2116.75	2064.83
Y 11.0	2080.24	2072.16	2018.13	1962.43
Y 12.0	1980.43	1969.22	1909.74	1849.31
Y 13.0	1871.97	1857.02	1794.05	1730.75
Y 14.0	1757.11	1737.92	1670.69	1605.23
Y 15.0	1635.00	1611.68	1540.48	1473.26
Y 16.0	1506.90	1477.48	1404.74	1333.24
Y 17.0	1372.19	1338.46	1265.03	1193.02
Y 18.0	1233.61	1196.02	1124.37	1054.29
Y 19.0	1095.63	1053.61	985.11	919.35
Y 20.0	959.67	915.97	852.28	791.08
Y 21.0	830.68	785.73	729.95	677.57
Y 22.0	711.45	669.17	624.18	579.45
Y 23.0	605.78	571.38	534.88	498.52
Y 24.0	518.27	489.65	461.01	435.12
Y 25.0	447.25	423.94	403.86	385.25
Y 26.0	390.84	373.45	359.36	345.87
Y 27.0	347.46	334.33	324.22	314.47
Y 28.0	313.62	303.02	295.80	288.64
Y 29.0	285.95	277.81	272.23	266.79
Y 30.0	263.06	256.52	252.10	247.37
Y 31.0	243.53	237.96	234.13	229.67
Y 32.0	226.19	221.18	217.90	213.51
Y 33.0	210.23	205.72	202.79	198.55
Y 34.0	195.66	191.38	188.91	184.95
Y 35.0	182.18	178.33	176.13	172.50
Y 36.0	169.92	166.46	164.49	161.19
Y 37.0	158.71	155.60	153.71	150.78
Y 38.0	148.40	145.54	143.76	141.26
Y 39.0	138.89	136.30	134.59	132.63
Y 40.0	130.18	127.73	126.19	124.73
Y 41.0	122.21	119.95	118.47	117.53
Y 42.0	115.01	112.82	111.45	110.86
Y 43.0	108.46	106.33	105.05	104.76
Y 44.0	102.49	100.40	99.29	99.22
Y 45.0	97.04	95.08	94.14	94.33
Y 46.0	92.17	90.36	89.56	89.93
Y 47.0	87.84	86.21	85.50	86.02
Y 48.0	84.02	82.53	81.99	82.59
Y 49.0	80.73	79.41	79.05	79.78
Y 50.0	77.91	76.76	76.68	77.18
Y 51.0	75.55	74.41	74.51	74.92
Y 52.0	73.50	72.30	72.58	72.89

# IES Indoor Report

Photometric Filename:AR111 GU10-15W 45°.IES

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## Candela Tabulation - (Cont.)

V/H	C270.0	C292.5	C315.0	C337.5
Y 53.0	71.57	70.54	70.89	71.10
Y 54.0	69.87	68.71	69.29	69.14
Y 55.0	68.13	66.94	67.48	67.29
Y 56.0	66.54	65.21	65.80	65.66
Y 57.0	65.04	63.79	64.32	64.20
Y 58.0	63.81	62.37	62.83	62.63
Y 59.0	62.64	60.98	61.31	60.99
Y 60.0	61.58	59.60	59.78	59.41
Y 61.0	60.35	58.23	58.29	57.83
Y 62.0	59.06	56.81	56.77	56.25
Y 63.0	57.70	55.41	55.20	54.60
Y 64.0	56.26	53.95	53.58	52.91
Y 65.0	54.72	52.42	51.91	51.18
Y 66.0	53.04	50.80	50.15	49.40
Y 67.0	51.26	49.12	48.33	47.56
Y 68.0	49.47	47.40	46.49	45.63
Y 69.0	47.63	45.59	44.57	43.67
Y 70.0	45.75	43.72	42.65	41.64
Y 71.0	43.83	41.79	40.64	39.59
Y 72.0	41.82	39.80	38.60	37.46
Y 73.0	39.76	37.77	36.54	35.29
Y 74.0	37.61	35.73	34.44	33.07
Y 75.0	35.37	33.64	32.25	30.78
Y 76.0	33.04	31.47	30.02	28.43
Y 77.0	30.60	29.22	27.69	26.02
Y 78.0	28.10	26.86	25.30	23.57
Y 79.0	25.51	24.38	22.83	21.07
Y 80.0	22.91	21.83	20.31	18.54
Y 81.0	20.22	19.23	17.74	16.04
Y 82.0	17.56	16.63	15.21	13.61
Y 83.0	14.92	14.07	12.72	11.26
Y 84.0	12.38	11.59	10.32	9.06
Y 85.0	9.94	9.24	8.11	7.04
Y 86.0	7.71	7.09	6.13	5.30
Y 87.0	5.66	5.23	4.45	3.87
Y 88.0	3.95	3.70	3.14	2.85
Y 89.0	2.59	2.58	2.24	2.22
Y 90.0	1.65	1.80	1.70	1.95
Y 91.0	0.66	1.03	1.24	1.35
Y 92.0	0.40	0.49	0.46	0.51
Y 93.0	0.38	0.45	0.41	0.48
Y 94.0	0.39	0.45	0.42	0.50
Y 95.0	0.41	0.48	0.43	0.49
Y 96.0	0.42	0.49	0.46	0.51
Y 97.0	0.44	0.51	0.48	0.51
Y 98.0	0.46	0.51	0.49	0.54
Y 99.0	0.48	0.51	0.51	0.57

# IES Indoor Report

Photometric Filename:AR111 GU10-15W 45°.IES

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## Candela Tabulation - (Cont.)

V/H	C270.0	C292.5	C315.0	C337.5
Y 100.0	0.50	0.53	0.52	0.56
Y 101.0	0.51	0.56	0.54	0.58
Y 102.0	0.52	0.56	0.55	0.61
Y 103.0	0.55	0.58	0.59	0.61
Y 104.0	0.56	0.59	0.58	0.64
Y 105.0	0.57	0.62	0.60	0.66
Y 106.0	0.60	0.62	0.62	0.67
Y 107.0	0.63	0.66	0.64	0.69
Y 108.0	0.65	0.69	0.66	0.71
Y 109.0	0.68	0.70	0.69	0.72
Y 110.0	0.69	0.72	0.70	0.75
Y 111.0	0.70	0.76	0.74	0.78
Y 112.0	0.75	0.77	0.74	0.80
Y 113.0	0.77	0.79	0.78	0.83
Y 114.0	0.80	0.82	0.80	0.86
Y 115.0	0.82	0.85	0.83	0.88
Y 116.0	0.86	0.88	0.86	0.93
Y 117.0	0.89	0.91	0.90	0.95
Y 118.0	0.94	0.95	0.94	1.01
Y 119.0	0.99	1.00	1.00	1.07
Y 120.0	1.03	1.05	1.05	1.10
Y 121.0	1.08	1.10	1.10	1.16
Y 122.0	1.14	1.17	1.16	1.25
Y 123.0	1.23	1.26	1.24	1.32
Y 124.0	1.29	1.32	1.32	1.41
Y 125.0	1.38	1.42	1.41	1.51
Y 126.0	1.47	1.52	1.52	1.61
Y 127.0	1.58	1.62	1.64	1.73
Y 128.0	1.69	1.73	1.75	1.85
Y 129.0	1.81	1.86	1.88	1.98
Y 130.0	1.94	1.99	2.01	2.12
Y 131.0	2.07	2.13	2.17	2.26
Y 132.0	2.22	2.28	2.31	2.41
Y 133.0	2.38	2.44	2.47	2.59
Y 134.0	2.53	2.61	2.63	2.75
Y 135.0	2.71	2.78	2.81	2.93
Y 136.0	2.88	2.95	2.98	3.10
Y 137.0	3.05	3.13	3.16	3.31
Y 138.0	3.23	3.32	3.36	3.48
Y 139.0	3.43	3.52	3.55	3.67
Y 140.0	3.62	3.71	3.74	3.88
Y 141.0	3.83	3.90	3.92	4.06
Y 142.0	4.02	4.11	4.13	4.28
Y 143.0	4.22	4.31	4.34	4.47
Y 144.0	4.41	4.51	4.54	4.68
Y 145.0	4.61	4.70	4.75	4.89
Y 146.0	4.82	4.91	4.95	5.09

# IES Indoor Report

Photometric Filename:AR111 GU10-15W 45°.IES

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## Candela Tabulation - (Cont.)

V/H	C270.0	C292.5	C315.0	C337.5
Y 147.0	5.00	5.13	5.15	5.28
Y 148.0	5.21	5.31	5.36	5.47
Y 149.0	5.40	5.50	5.55	5.65
Y 150.0	5.61	5.69	5.72	5.83
Y 151.0	5.78	5.85	5.90	6.00
Y 152.0	5.94	6.02	6.08	6.18
Y 153.0	6.11	6.19	6.27	6.35
Y 154.0	6.29	6.35	6.42	6.51
Y 155.0	6.44	6.51	6.57	6.66
Y 156.0	6.57	6.63	6.70	6.78
Y 157.0	6.70	6.75	6.81	6.90
Y 158.0	6.81	6.86	6.92	6.99
Y 159.0	6.92	6.95	7.01	7.07
Y 160.0	7.01	7.03	7.07	7.14
Y 161.0	7.07	7.10	7.13	7.22
Y 162.0	7.13	7.15	7.16	7.23
Y 163.0	7.18	7.19	7.19	7.23
Y 164.0	7.21	7.19	7.20	7.25
Y 165.0	7.22	7.21	7.20	7.23
Y 166.0	7.21	7.19	7.19	7.20
Y 167.0	7.20	7.17	7.18	7.18
Y 168.0	7.18	7.14	7.15	7.14
Y 169.0	7.15	7.12	7.13	7.13
Y 170.0	7.12	7.12	7.11	7.11
Y 171.0	7.11	7.10	7.08	7.10
Y 172.0	7.10	7.09	7.09	7.10
Y 173.0	7.09	7.07	7.08	7.11
Y 174.0	7.08	7.07	7.08	7.14
Y 175.0	7.10	7.07	7.09	7.12
Y 176.0	7.09	7.07	7.10	7.14
Y 177.0	7.13	7.10	7.12	7.18
Y 178.0	7.13	7.11	7.11	7.17
Y 179.0	7.14	7.08	7.09	7.14
Y 180.0	7.24	7.24	7.24	7.24