

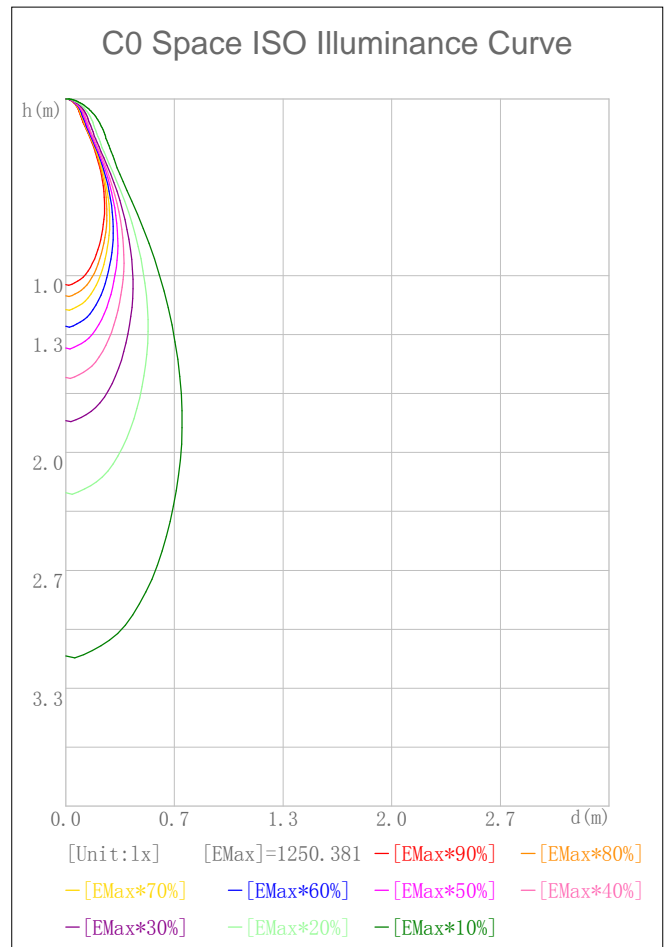
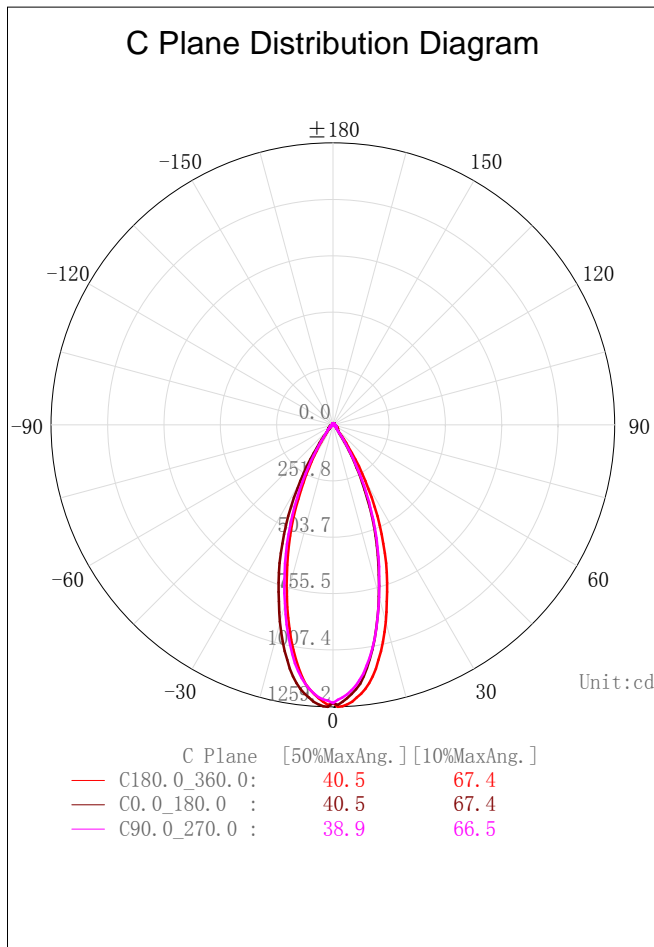
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Date: 2020/07/19
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.030m*-0.030m*0.000m	Lum. Area (m2): 0.001	Lum. W (kg): 1.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25
		Humidity (%): 50.0

Character Parameter

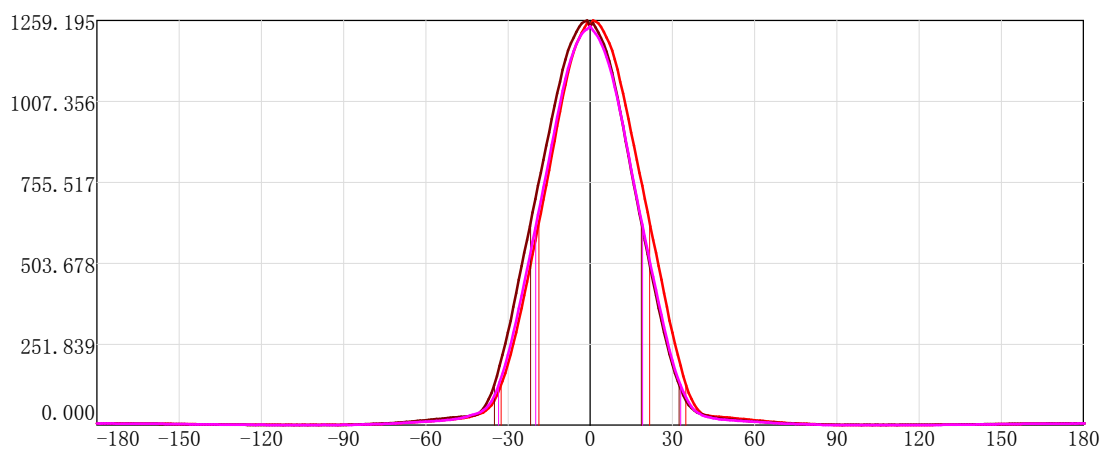
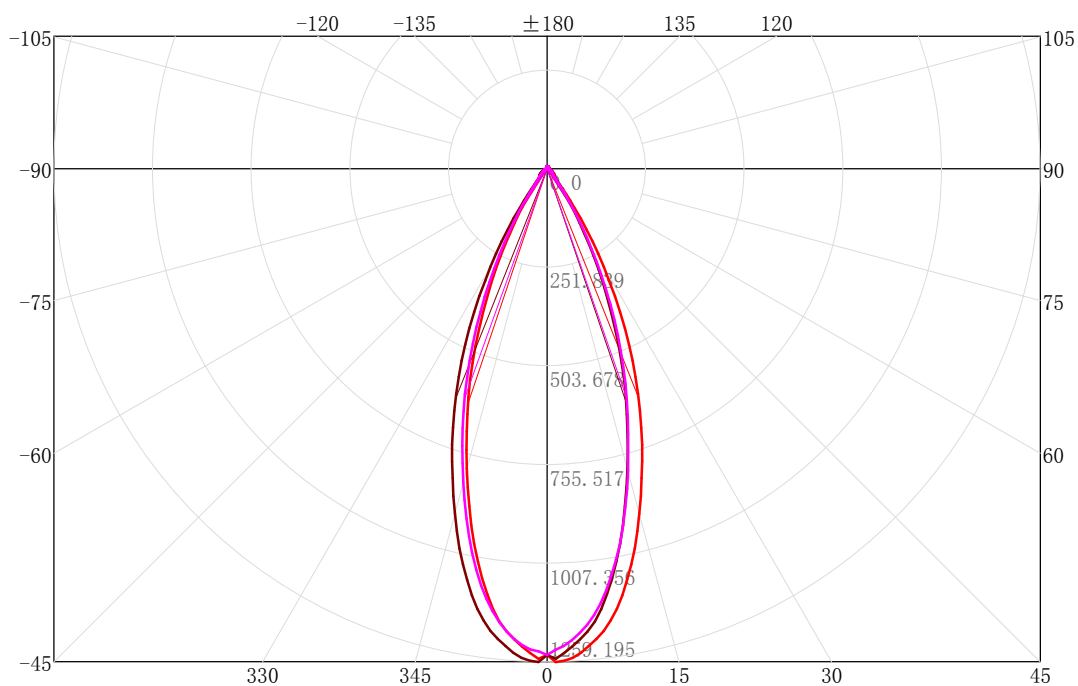
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux (lm): 640.700	Luminary Flux (lm): 640.700	Field Angle (10%Imax): 67.4(°)	
Rated Power (W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 627.747lm 97.98%	
Rated Voltage (V):	Luminary EER (lm/W): 97.076	Up Lumens&Percent: 12.953lm 2.02%	
Tested Power (W): 6.600	Max. Candela (cd): 1259.195	S/MH: C0_a180=0.651 C90_270=0.621	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 220.0, 0.032, 0.932	Beam Angle (50%Imax): 40.5(°)	ErP Φ use (90°): 598.017lm	
Lamp Size (W*L*H): 0.030m*-0.030m*0.000m	Left=-18.7°, Right=21.8°	IRF (%): 449.337	



2D Plane Light Intensity Distribution Curve

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

C Plane Distribution Diagram

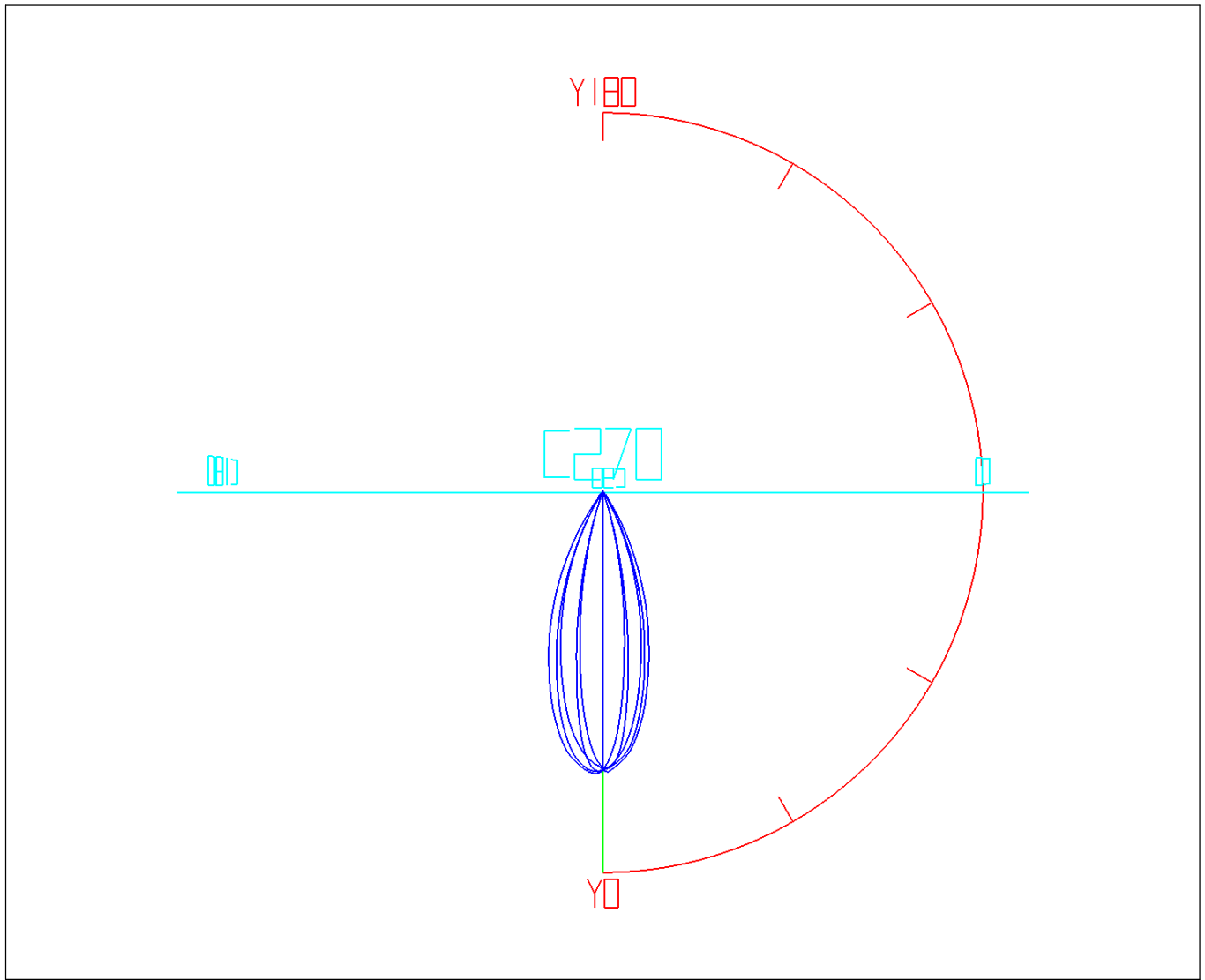


	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C180.0_360.0 :	40.5	67.4	
—	C0.0_180.0 :	40.5	67.4	
—	C90.0_270.0 :	38.9	66.5	

3D Light Intensity Distribution Modal

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

3D Light Intensity Distribution Modal



Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

IES Indoor Report
Photometric Filename:175-144.IES

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	1.19	1.19	0.19	0.19	47.0-48.0	1.59	600.22	0.25	93.68
1.0-2.0	3.54	4.72	0.55	0.74	48.0-49.0	1.55	601.77	0.24	93.92
2.0-3.0	5.85	10.57	0.91	1.65	49.0-50.0	1.51	603.28	0.24	94.16
3.0-4.0	8.10	18.67	1.26	2.91	50.0-51.0	1.46	604.74	0.23	94.39
4.0-5.0	10.27	28.94	1.60	4.52	51.0-52.0	1.42	606.16	0.22	94.61
5.0-6.0	12.34	41.28	1.93	6.44	52.0-53.0	1.37	607.53	0.21	94.82
6.0-7.0	14.28	55.56	2.23	8.67	53.0-54.0	1.32	608.85	0.21	95.03
7.0-8.0	16.08	71.64	2.51	11.18	54.0-55.0	1.27	610.12	0.20	95.23
8.0-9.0	17.70	89.33	2.76	13.94	55.0-56.0	1.21	611.33	0.19	95.42
9.0-10.0	19.13	108.47	2.99	16.93	56.0-57.0	1.15	612.48	0.18	95.60
10.0-11.0	20.36	128.83	3.18	20.11	57.0-58.0	1.09	613.57	0.17	95.77
11.0-12.0	21.40	150.23	3.34	23.45	58.0-59.0	1.03	614.60	0.16	95.93
12.0-13.0	22.23	172.46	3.47	26.92	59.0-60.0	0.97	615.57	0.15	96.08
13.0-14.0	22.87	195.33	3.57	30.49	60.0-61.0	0.92	616.49	0.14	96.22
14.0-15.0	23.32	218.66	3.64	34.13	61.0-62.0	0.87	617.36	0.14	96.36
15.0-16.0	23.61	242.26	3.68	37.81	62.0-63.0	0.81	618.17	0.13	96.48
16.0-17.0	23.72	265.98	3.70	41.51	63.0-64.0	0.76	618.93	0.12	96.60
17.0-18.0	23.70	289.68	3.70	45.21	64.0-65.0	0.71	619.64	0.11	96.71
18.0-19.0	23.56	313.24	3.68	48.89	65.0-66.0	0.66	620.30	0.10	96.82
19.0-20.0	23.28	336.52	3.63	52.52	66.0-67.0	0.62	620.92	0.10	96.91
20.0-21.0	22.83	359.35	3.56	56.09	67.0-68.0	0.59	621.52	0.09	97.01
21.0-22.0	22.20	381.54	3.46	59.55	68.0-69.0	0.56	622.08	0.09	97.09
22.0-23.0	21.40	402.94	3.34	62.89	69.0-70.0	0.53	622.60	0.08	97.18
23.0-24.0	20.47	423.41	3.19	66.09	70.0-71.0	0.49	623.09	0.08	97.25
24.0-25.0	19.44	442.85	3.03	69.12	71.0-72.0	0.45	623.54	0.07	97.32
25.0-26.0	18.30	461.15	2.86	71.98	72.0-73.0	0.41	623.96	0.06	97.39
26.0-27.0	17.04	478.20	2.66	74.64	73.0-74.0	0.37	624.33	0.06	97.44
27.0-28.0	15.70	493.90	2.45	77.09	74.0-75.0	0.34	624.67	0.05	97.50
28.0-29.0	14.30	508.20	2.23	79.32	75.0-76.0	0.31	624.98	0.05	97.55
29.0-30.0	12.88	521.08	2.01	81.33	76.0-77.0	0.28	625.26	0.04	97.59
30.0-31.0	11.51	532.59	1.80	83.13	77.0-78.0	0.27	625.53	0.04	97.63
31.0-32.0	10.16	542.76	1.59	84.71	78.0-79.0	0.25	625.78	0.04	97.67
32.0-33.0	8.85	551.60	1.38	86.09	79.0-80.0	0.24	626.02	0.04	97.71
33.0-34.0	7.59	559.19	1.18	87.28	80.0-81.0	0.23	626.25	0.04	97.74
34.0-35.0	6.41	565.59	1.00	88.28	81.0-82.0	0.22	626.47	0.03	97.78
35.0-36.0	5.36	570.96	0.84	89.11	82.0-83.0	0.20	626.67	0.03	97.81
36.0-37.0	4.49	575.45	0.70	89.82	83.0-84.0	0.19	626.86	0.03	97.84
37.0-38.0	3.77	579.22	0.59	90.40	84.0-85.0	0.17	627.03	0.03	97.87
38.0-39.0	3.17	582.39	0.50	90.90	85.0-86.0	0.16	627.18	0.02	97.89
39.0-40.0	2.71	585.10	0.42	91.32	86.0-87.0	0.15	627.33	0.02	97.91
40.0-41.0	2.37	587.47	0.37	91.69	87.0-88.0	0.14	627.47	0.02	97.94
41.0-42.0	2.13	589.60	0.33	92.03	88.0-89.0	0.14	627.61	0.02	97.96
42.0-43.0	1.99	591.59	0.31	92.34	89.0-90.0	0.13	627.75	0.02	97.98
43.0-44.0	1.88	593.47	0.29	92.63	90.0-91.0	0.13	627.88	0.02	98.00
44.0-45.0	1.79	595.26	0.28	92.91	91.0-92.0	0.13	628.01	0.02	98.02
45.0-46.0	1.72	596.98	0.27	93.18	92.0-93.0	0.13	628.14	0.02	98.04
46.0-47.0	1.65	598.63	0.26	93.43	93.0-94.0	0.13	628.26	0.02	98.06

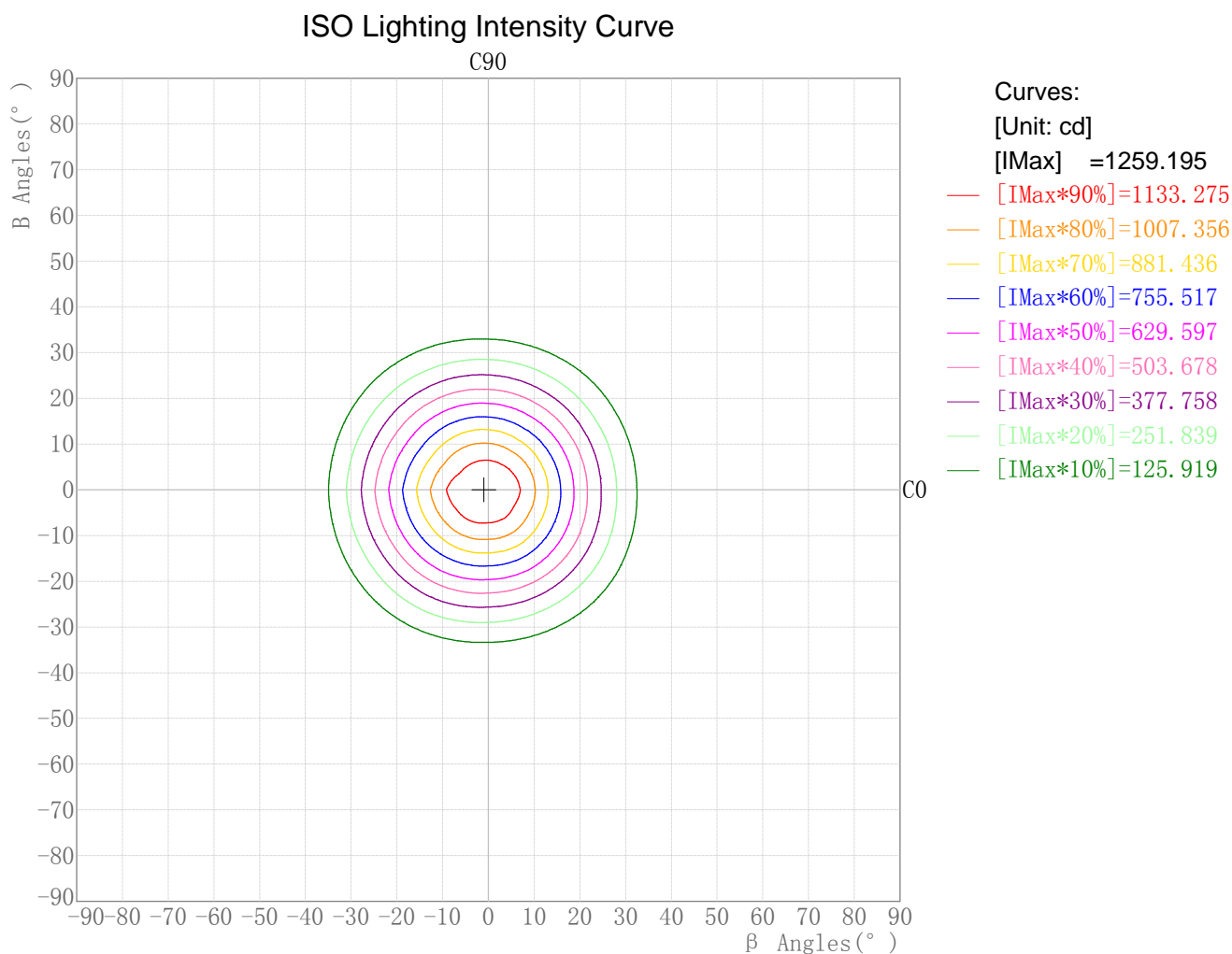
IES Indoor Report
Photometric Filename:175-144.IES

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	0.13	628.39	0.02	98.08	141.0-142.0	0.20	635.09	0.03	99.12
95.0-96.0	0.13	628.52	0.02	98.10	142.0-143.0	0.20	635.29	0.03	99.16
96.0-97.0	0.13	628.65	0.02	98.12	143.0-144.0	0.21	635.49	0.03	99.19
97.0-98.0	0.13	628.78	0.02	98.14	144.0-145.0	0.21	635.70	0.03	99.22
98.0-99.0	0.13	628.91	0.02	98.16	145.0-146.0	0.21	635.91	0.03	99.25
99.0-100.0	0.13	629.04	0.02	98.18	146.0-147.0	0.21	636.12	0.03	99.29
100.0-101.0	0.13	629.16	0.02	98.20	147.0-148.0	0.21	636.33	0.03	99.32
101.0-102.0	0.13	629.29	0.02	98.22	148.0-149.0	0.21	636.54	0.03	99.35
102.0-103.0	0.13	629.41	0.02	98.24	149.0-150.0	0.21	636.76	0.03	99.38
103.0-104.0	0.12	629.54	0.02	98.26	150.0-151.0	0.21	636.97	0.03	99.42
104.0-105.0	0.12	629.66	0.02	98.28	151.0-152.0	0.21	637.18	0.03	99.45
105.0-106.0	0.12	629.78	0.02	98.30	152.0-153.0	0.21	637.39	0.03	99.48
106.0-107.0	0.12	629.91	0.02	98.32	153.0-154.0	0.21	637.60	0.03	99.52
107.0-108.0	0.12	630.03	0.02	98.33	154.0-155.0	0.20	637.80	0.03	99.55
108.0-109.0	0.12	630.15	0.02	98.35	155.0-156.0	0.20	638.00	0.03	99.58
109.0-110.0	0.12	630.27	0.02	98.37	156.0-157.0	0.20	638.20	0.03	99.61
110.0-111.0	0.12	630.39	0.02	98.39	157.0-158.0	0.19	638.39	0.03	99.64
111.0-112.0	0.12	630.51	0.02	98.41	158.0-159.0	0.19	638.58	0.03	99.67
112.0-113.0	0.12	630.63	0.02	98.43	159.0-160.0	0.18	638.76	0.03	99.70
113.0-114.0	0.12	630.75	0.02	98.45	160.0-161.0	0.18	638.94	0.03	99.73
114.0-115.0	0.12	630.88	0.02	98.47	161.0-162.0	0.17	639.11	0.03	99.75
115.0-116.0	0.12	631.00	0.02	98.49	162.0-163.0	0.16	639.27	0.03	99.78
116.0-117.0	0.12	631.12	0.02	98.50	163.0-164.0	0.16	639.42	0.02	99.80
117.0-118.0	0.12	631.24	0.02	98.52	164.0-165.0	0.15	639.57	0.02	99.82
118.0-119.0	0.13	631.37	0.02	98.54	165.0-166.0	0.14	639.71	0.02	99.85
119.0-120.0	0.13	631.50	0.02	98.56	166.0-167.0	0.13	639.84	0.02	99.87
120.0-121.0	0.13	631.63	0.02	98.58	167.0-168.0	0.12	639.97	0.02	99.89
121.0-122.0	0.13	631.76	0.02	98.60	168.0-169.0	0.11	640.08	0.02	99.90
122.0-123.0	0.13	631.89	0.02	98.63	169.0-170.0	0.11	640.19	0.02	99.92
123.0-124.0	0.13	632.03	0.02	98.65	170.0-171.0	0.10	640.28	0.01	99.93
124.0-125.0	0.14	632.17	0.02	98.67	171.0-172.0	0.09	640.37	0.01	99.95
125.0-126.0	0.14	632.31	0.02	98.69	172.0-173.0	0.08	640.44	0.01	99.96
126.0-127.0	0.15	632.45	0.02	98.71	173.0-174.0	0.07	640.51	0.01	99.97
127.0-128.0	0.15	632.60	0.02	98.74	174.0-175.0	0.06	640.57	0.01	99.98
128.0-129.0	0.15	632.76	0.02	98.76	175.0-176.0	0.05	640.62	0.01	99.99
129.0-130.0	0.16	632.91	0.02	98.78	176.0-177.0	0.04	640.65	0.01	99.99
130.0-131.0	0.16	633.08	0.03	98.81	177.0-178.0	0.03	640.68	0.00	100.00
131.0-132.0	0.17	633.24	0.03	98.84	178.0-179.0	0.02	640.69	0.00	100.00
132.0-133.0	0.17	633.41	0.03	98.86	179.0-180.0	0.01	640.70	0.00	100.00
133.0-134.0	0.17	633.58	0.03	98.89					
134.0-135.0	0.18	633.76	0.03	98.92					
135.0-136.0	0.18	633.94	0.03	98.94					
136.0-137.0	0.18	634.12	0.03	98.97					
137.0-138.0	0.19	634.31	0.03	99.00					
138.0-139.0	0.19	634.50	0.03	99.03					
139.0-140.0	0.19	634.69	0.03	99.06					
140.0-141.0	0.20	634.89	0.03	99.09					

Rectangle ISO Lighting Intensity Diagram

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

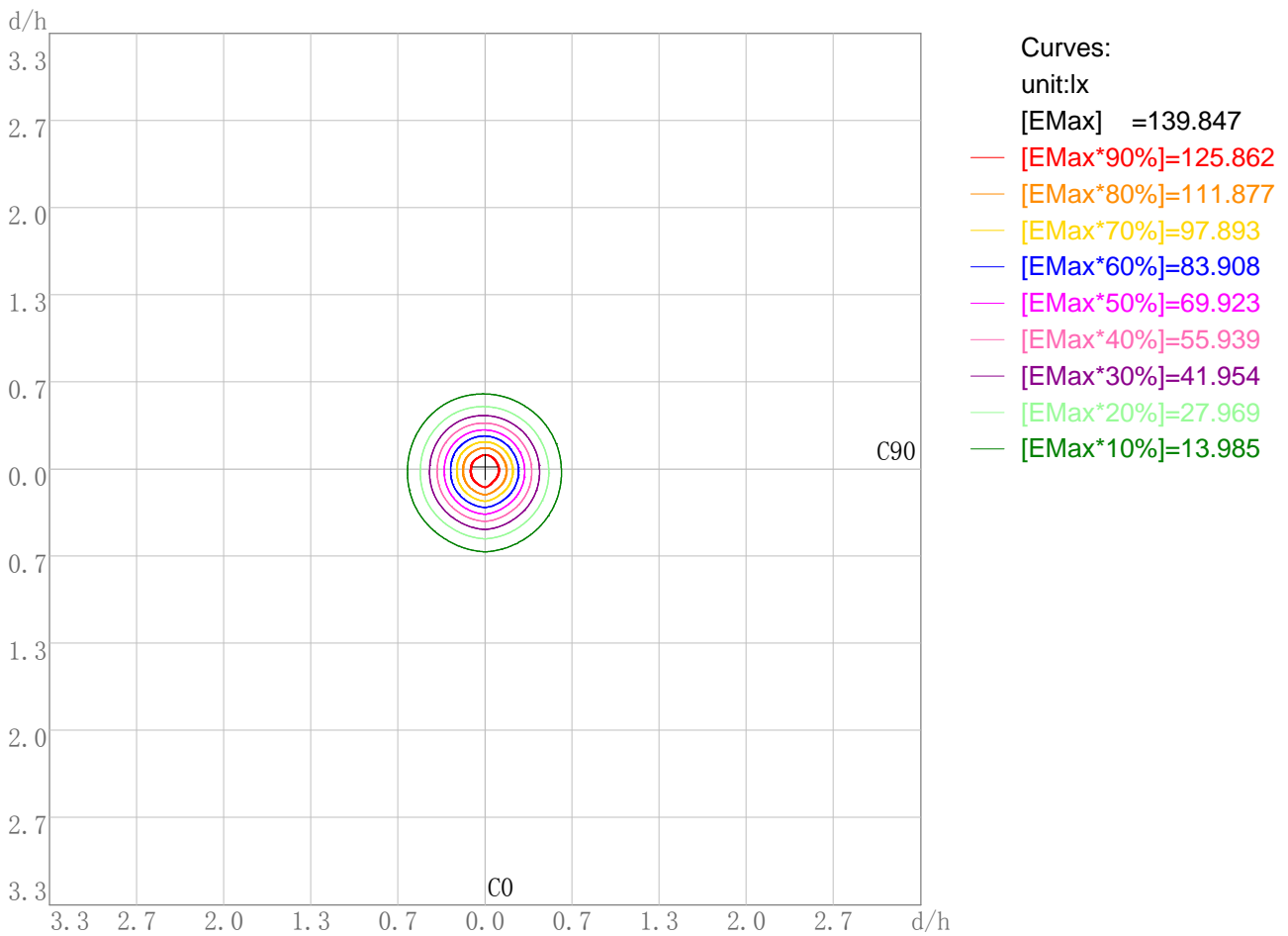


Maximum Light Intensity(cd): 1259.19
Maximum Cand.@Angle: H=-1.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

Plane ISO-Illuminance Curve

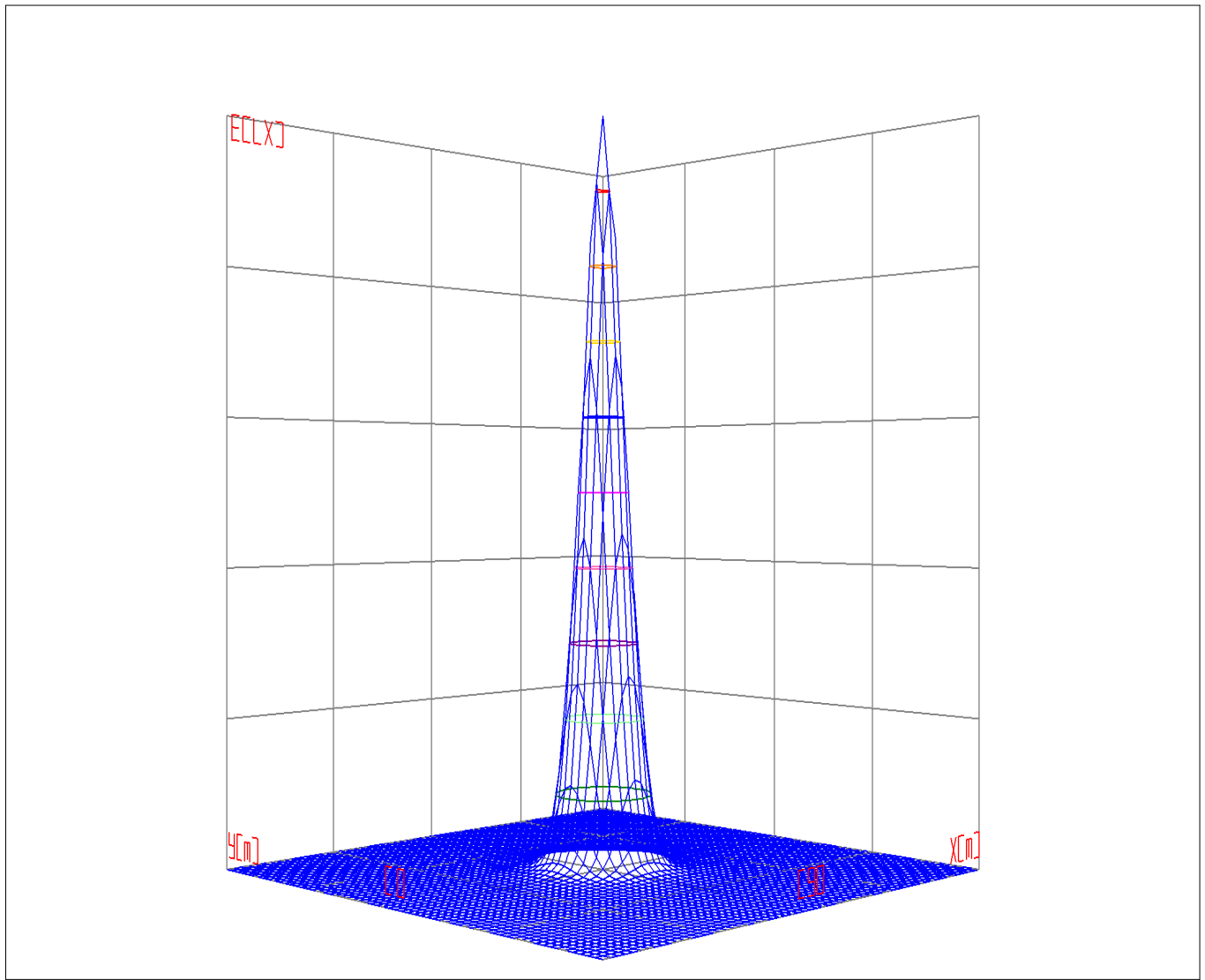


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 139.85
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

3D Plane Illuminance Modal

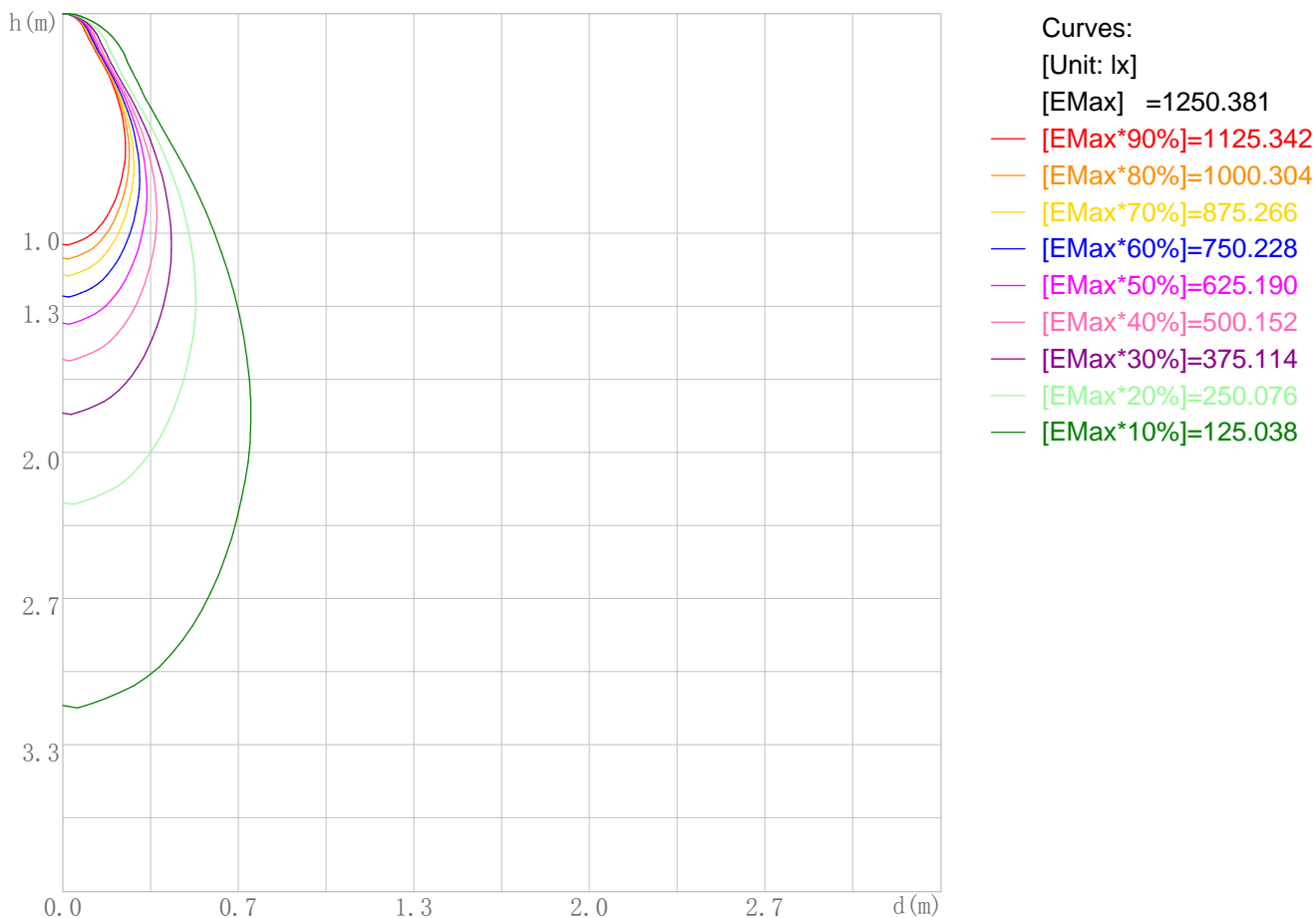


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

Space ISO Illuminance Curve

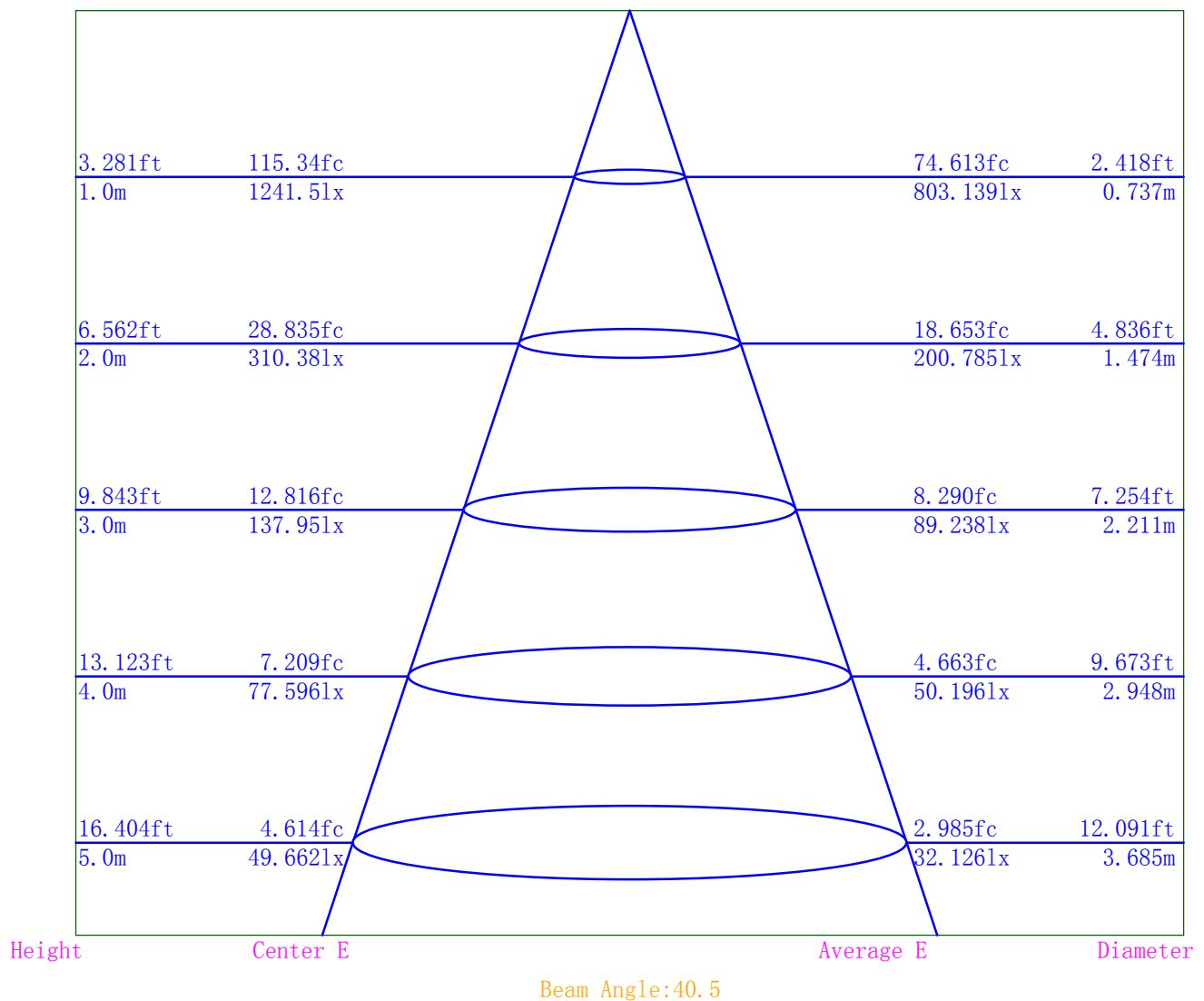


Space Plane Maximum Illuminance and @Angle:1250.38lx,1.0deg
 Plane Maximum Lighting Intensity and @Angle:1250.952cd,0deg

Illuminance-Distance Diagram

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19

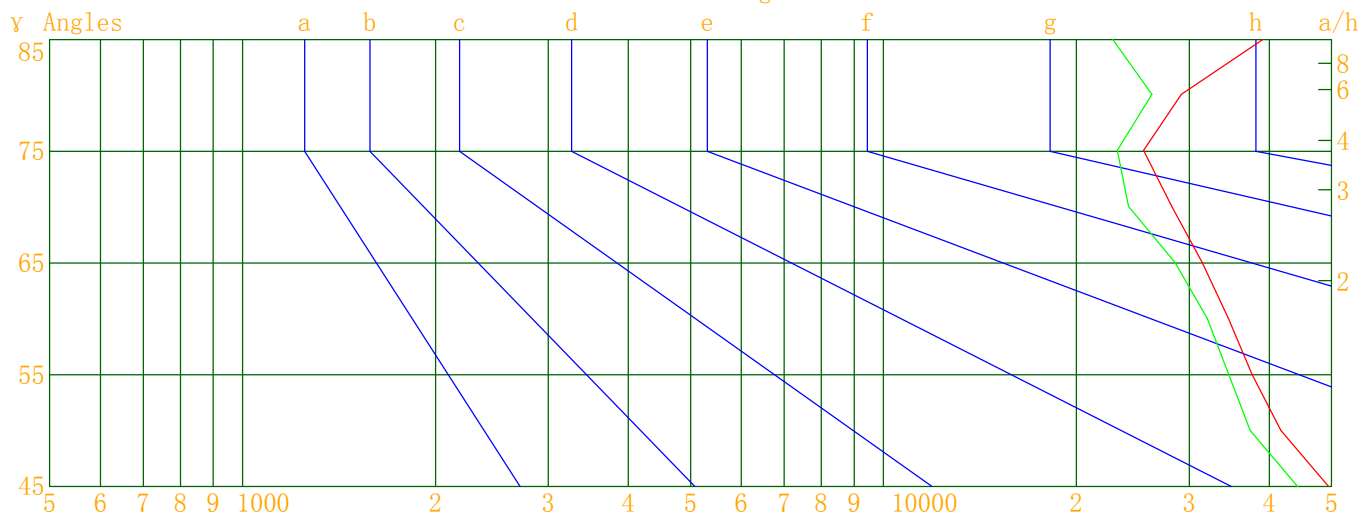
Glare Grade Table

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	49457	41692	37601	34533	31420	28173	25466	29174	39070
C90	44246	37316	34563	31995	28490	24115	23170	26241	22806

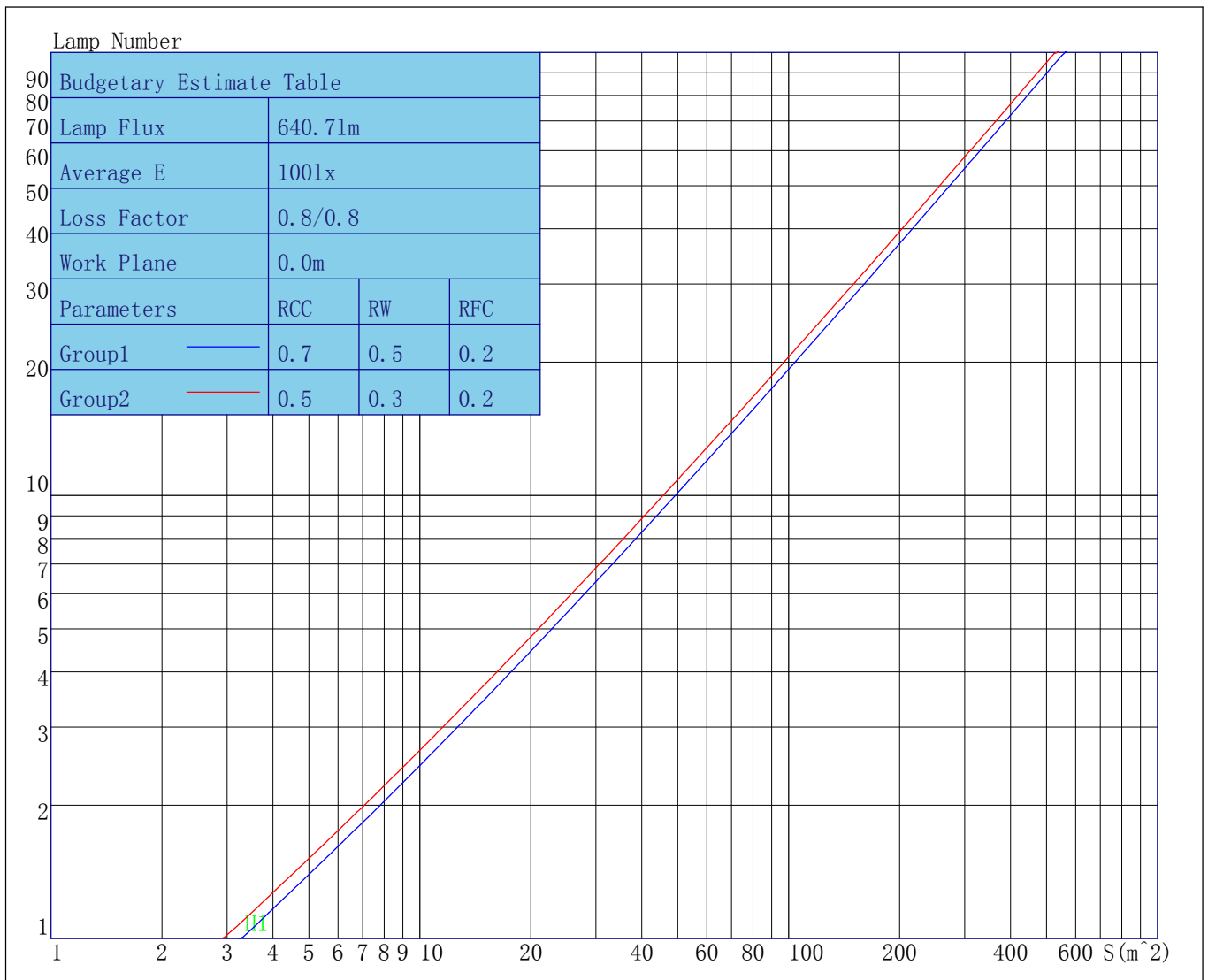
Luminance Limiting Curve



Luminous Size: Length(m)=-0.030 Width(m)=-0.030 Height(m)=0.000 Area(m^2)=0.000707
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

Indoor Budgetary Estimate Table

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2020/07/19



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: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/19

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	50	30	10	0
RCR	Coefficient of Utilization(%)																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98			
1	113	111	108	106	111	108	106	104	104	102	101	100	98	97	96	95	94	92			
2	108	103	100	96	106	102	98	95	98	95	93	95	93	91	92	90	88	87			
3	103	97	93	89	101	96	91	88	93	89	86	90	87	85	88	85	83	82			
4	99	92	87	83	97	90	86	82	88	84	81	86	82	80	84	81	79	77			
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	80	77	74	73			
6	90	82	77	73	89	81	76	73	80	75	72	78	74	71	77	73	71	69			
7	87	78	73	69	85	77	72	69	76	71	68	75	71	68	73	70	67	66			
8	83	74	69	65	82	74	69	65	73	68	65	71	67	64	70	67	64	63			
9	80	71	66	62	79	71	65	62	69	65	62	69	64	61	68	64	61	60			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	58	57			

IES Indoor Report
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Unified Glare Rating Table

Lum. Name: 175-144	Lum. Catalog: LED Spotlight	Test ID: 001
Lamp Name: LED GU10	Lamp Catalog: LED Spotlight	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/19

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	19.9	20.8	20.3	21.2	21.5	20.2	21.2	20.7	21.6	21.9
Y=3H	20.4	21.2	20.8	21.6	22.0	20.7	21.5	21.1	21.9	22.3
Y=4H	20.7	21.4	21.1	21.8	22.3	20.9	21.6	21.3	22.0	22.5
Y=6H	20.9	21.6	21.4	22.1	22.5	21.1	21.8	21.5	22.2	22.7
Y=8H	21.2	21.8	21.6	22.2	22.7	21.2	21.9	21.7	22.3	22.8
Y=12H	21.4	22.0	21.9	22.4	22.9	21.3	21.9	21.8	22.4	22.8
X=4H Y=2H	19.8	20.6	20.2	20.9	21.4	20.2	20.9	20.6	21.3	21.8
Y=3H	20.4	21.0	20.8	21.5	21.9	20.7	21.3	21.1	21.8	22.2
Y=4H	20.7	21.2	21.2	21.7	22.2	20.9	21.5	21.4	22.0	22.5
Y=6H	21.1	21.6	21.6	22.1	22.6	21.3	21.8	21.8	22.3	22.8
Y=8H	21.4	21.8	21.9	22.3	22.8	21.5	21.9	22.0	22.4	23.0
Y=12H	21.7	22.1	22.3	22.7	23.2	21.7	22.0	22.2	22.6	23.1
X=8H Y=4H	20.6	21.0	21.1	21.5	22.1	20.8	21.3	21.4	21.8	22.3
Y=6H	21.0	21.4	21.6	21.9	22.5	21.3	21.6	21.8	22.2	22.7
Y=8H	21.4	21.7	22.0	22.3	22.8	21.6	21.9	22.1	22.4	23.0
Y=12H	21.9	22.2	22.5	22.7	23.4	21.8	22.1	22.4	22.6	23.3
X=12H Y=4H	20.5	20.9	21.1	21.5	22.0	20.8	21.2	21.3	21.7	22.2
Y=6H	21.0	21.3	21.6	21.8	22.4	21.2	21.5	21.8	22.0	22.6
Y=8H	21.4	21.7	22.0	22.2	22.8	21.6	21.8	22.1	22.4	23.0
Variations with the objverver position at spacings										
S=1.0H	0.1/-0.1					0.2/-0.2				
S=1.5H	0.4/-0.3					0.4/-0.4				
S=2.0H	1.3/-0.8					1.2/-0.8				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	1.6					1.4				

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

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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
Y 0.0	1241.54	1241.54	1241.54	1241.54	1241.54	1241.54	1241.54	1241.54	1241.54	1241.54	1241.54	1241.54
Y 1.0	1250.95	1238.16	1231.13	1228.27	1225.63	1226.44	1259.19	1245.76	1238.50	1232.72	1229.33	1225.99
Y 2.0	1237.26	1226.48	1219.60	1218.76	1218.43	1221.07	1256.56	1241.03	1234.44	1227.78	1223.68	1217.03
Y 3.0	1221.68	1211.99	1204.76	1205.17	1207.73	1211.60	1249.89	1233.16	1225.93	1217.48	1213.52	1204.82
Y 4.0	1204.42	1195.38	1186.21	1188.42	1192.94	1198.86	1238.84	1221.36	1214.27	1203.08	1198.97	1188.94
Y 5.0	1185.71	1174.58	1164.39	1168.96	1174.23	1182.13	1222.86	1205.57	1197.52	1185.77	1181.12	1170.47
Y 6.0	1162.22	1148.57	1139.91	1145.49	1152.55	1162.23	1206.92	1187.01	1177.91	1164.51	1161.21	1148.54
Y 7.0	1132.62	1117.97	1111.08	1118.32	1127.25	1139.13	1188.39	1165.51	1155.57	1138.95	1137.02	1123.09
Y 8.0	1097.02	1084.63	1075.60	1085.90	1098.30	1113.18	1165.44	1139.82	1129.47	1110.15	1108.09	1092.65
Y 9.0	1058.80	1047.97	1038.57	1050.68	1067.68	1084.64	1137.63	1109.27	1098.09	1077.62	1075.23	1057.11
Y 10.0	1018.68	1008.34	1000.17	1013.68	1033.70	1052.03	1105.71	1076.00	1062.76	1040.58	1037.68	1017.46
Y 11.0	975.90	964.28	957.51	974.63	996.16	1015.12	1068.51	1040.74	1022.39	1000.66	996.52	977.63
Y 12.0	930.24	918.48	913.78	932.28	956.29	975.44	1032.69	1003.72	982.84	958.90	956.25	935.90
Y 13.0	884.25	872.01	868.32	887.76	913.68	935.07	994.41	963.33	941.77	915.82	914.05	893.58
Y 14.0	838.52	825.60	821.81	842.80	869.22	894.43	952.96	921.16	899.40	871.83	870.69	849.91
Y 15.0	792.98	779.49	776.75	797.22	825.22	853.16	910.83	878.55	855.94	827.82	825.97	805.63
Y 16.0	746.90	734.17	732.67	751.26	782.37	811.68	869.74	836.46	811.96	782.89	781.71	761.33
Y 17.0	701.93	689.87	689.08	707.42	739.03	769.54	825.63	795.07	765.84	739.48	734.29	717.71
Y 18.0	659.20	647.22	647.20	665.73	696.73	727.49	785.23	754.16	725.95	696.84	691.49	675.05
Y 19.0	617.14	605.06	605.97	625.39	655.44	687.01	745.08	713.30	686.65	655.25	650.46	633.36
Y 20.0	574.67	562.70	564.61	584.27	615.02	647.31	703.37	671.64	645.27	613.39	608.59	592.32
Y 21.0	531.40	519.58	523.42	542.71	574.18	606.88	661.98	628.62	604.08	571.14	566.15	551.92
Y 22.0	488.33	476.91	481.90	501.80	532.77	566.48	619.16	585.37	561.32	527.67	520.74	509.77
Y 23.0	446.27	434.35	440.79	461.45	492.04	525.02	576.82	541.73	517.25	485.28	475.94	467.48
Y 24.0	404.59	393.44	399.95	421.36	451.92	483.99	536.21	499.00	476.41	443.10	435.15	425.44
Y 25.0	364.37	353.18	360.42	382.20	411.90	443.44	495.52	457.69	437.09	402.81	395.54	386.27
Y 26.0	325.50	314.14	322.13	343.60	371.75	403.95	453.05	415.83	396.68	362.97	355.59	347.02
Y 27.0	288.92	277.18	285.46	305.94	332.21	364.89	411.04	374.88	356.73	324.73	316.92	308.78
Y 28.0	253.55	242.88	251.08	269.20	294.14	326.68	368.34	334.38	316.90	287.57	278.62	272.19
Y 29.0	220.73	211.22	218.79	234.40	258.73	289.49	325.91	295.17	277.09	251.44	241.74	237.00
Y 30.0	190.28	182.15	189.38	202.03	225.12	253.16	289.00	257.77	242.24	218.59	209.93	205.01
Y 31.0	162.39	155.32	161.93	173.01	194.56	218.38	253.91	223.11	210.52	188.63	181.58	176.60
Y 32.0	136.90	130.57	136.01	147.54	166.54	186.17	218.65	190.57	179.18	160.47	154.21	150.47
Y 33.0	113.90	108.04	113.71	124.50	140.88	157.10	185.25	160.42	150.13	134.69	130.01	126.98
Y 34.0	93.41	88.40	94.85	104.47	117.24	131.26	152.86	132.91	123.32	110.72	107.34	105.59
Y 35.0	76.02	72.27	78.45	86.98	96.09	108.12	124.39	107.63	99.44	90.16	86.93	86.23
Y 36.0	63.14	59.82	64.69	71.72	77.96	87.27	100.50	85.95	80.91	74.47	71.33	69.94
Y 37.0	53.71	49.88	53.37	58.15	63.61	69.01	81.47	68.81	66.50	62.88	59.21	58.06
Y 38.0	46.31	41.15	44.03	47.88	52.82	54.15	65.30	54.42	54.08	53.41	49.92	48.09
Y 39.0	40.29	33.27	36.71	40.52	43.58	42.70	52.17	42.17	44.31	46.51	42.50	39.64
Y 40.0	36.62	27.95	32.38	35.36	36.36	33.86	42.03	34.03	37.63	41.24	36.74	33.30
Y 41.0	33.71	23.88	28.50	30.99	31.34	27.65	35.24	29.44	33.12	37.51	31.36	27.90
Y 42.0	31.33	21.49	25.12	27.76	28.39	24.68	32.09	26.69	30.61	34.79	27.15	24.32
Y 43.0	28.56	19.91	23.08	25.61	26.20	23.29	30.45	25.53	28.08	32.37	24.07	21.99
Y 44.0	26.36	18.80	21.56	24.15	24.72	22.59	29.12	24.53	25.84	29.37	21.48	20.28
Y 45.0	24.72	17.66	19.86	22.11	23.34	21.69	28.08	23.58	24.21	27.13	19.58	18.75
Y 46.0	23.03	16.83	18.53	20.53	22.29	20.95	27.25	22.67	22.45	25.22	18.24	17.53

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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
Y 47.0	21.57	16.13	17.60	19.22	21.22	20.22	26.62	22.08	20.81	22.70	16.99	16.80
Y 48.0	20.54	15.49	16.74	18.36	20.20	19.30	25.94	21.48	19.69	21.10	15.79	16.39
Y 49.0	19.69	14.97	16.08	17.68	19.29	18.51	25.05	21.15	18.71	19.70	14.90	15.69
Y 50.0	18.94	14.53	15.41	16.95	18.48	17.52	24.41	20.65	17.48	18.54	14.31	15.23
Y 51.0	18.15	13.78	14.74	16.32	17.48	16.64	23.78	19.89	16.44	17.40	13.75	14.49
Y 52.0	17.62	13.08	14.13	15.66	16.56	15.56	22.90	18.81	15.44	16.68	13.25	13.99
Y 53.0	16.86	12.49	13.63	15.01	15.45	14.56	22.06	17.97	14.80	15.94	12.72	13.18
Y 54.0	16.01	11.65	13.09	14.31	14.50	13.51	21.10	16.77	13.77	15.22	12.27	12.46
Y 55.0	15.24	10.86	12.47	14.01	13.61	12.59	20.34	15.77	13.18	14.28	11.66	11.82
Y 56.0	14.71	10.01	11.72	13.30	12.52	11.58	19.44	14.49	12.23	13.68	11.01	10.93
Y 57.0	14.09	9.17	11.10	12.78	11.53	10.54	18.67	13.22	11.44	13.25	10.29	10.09
Y 58.0	13.40	8.26	10.23	12.41	10.69	9.78	17.82	12.21	10.69	12.72	9.44	9.32
Y 59.0	12.75	7.60	9.45	11.86	9.90	9.15	17.02	11.18	9.77	12.06	8.64	8.47
Y 60.0	12.20	6.85	8.69	11.31	9.11	8.46	16.19	10.33	9.01	11.61	7.76	7.89
Y 61.0	11.67	6.16	8.07	10.98	8.57	7.80	15.24	9.60	8.09	11.07	7.34	7.23
Y 62.0	11.17	5.75	7.30	10.33	7.84	7.30	14.51	8.94	7.38	10.62	6.37	6.74
Y 63.0	10.69	5.06	6.72	9.79	7.30	6.51	13.69	8.12	6.80	10.00	5.83	5.93
Y 64.0	9.95	4.47	6.09	9.05	6.57	6.10	12.85	7.24	6.14	9.58	5.39	5.37
Y 65.0	9.39	4.01	5.63	8.51	6.19	5.57	11.94	6.62	5.77	9.13	4.83	4.91
Y 66.0	8.86	3.85	5.21	7.98	5.57	5.03	11.21	6.23	5.15	8.51	4.37	4.65
Y 67.0	8.25	3.69	4.79	7.42	5.33	4.77	10.55	5.94	4.88	7.93	4.20	4.50
Y 68.0	7.72	3.54	4.57	6.86	4.97	4.63	9.84	5.61	4.40	7.57	3.82	4.59
Y 69.0	7.32	3.33	4.05	6.22	4.78	4.46	9.19	5.42	4.11	6.87	3.53	4.38
Y 70.0	6.81	3.20	3.92	5.83	4.38	4.05	8.60	5.07	3.78	6.48	3.43	4.04
Y 71.0	6.20	2.85	3.61	5.42	3.97	3.40	7.87	4.67	3.47	5.83	3.11	3.75
Y 72.0	5.76	2.51	3.38	5.06	3.53	2.98	7.44	3.96	3.12	5.63	2.94	3.49
Y 73.0	5.50	1.94	2.95	4.79	3.13	2.46	6.91	3.34	2.87	5.28	2.59	2.96
Y 74.0	5.09	1.68	2.64	4.53	2.77	2.05	6.44	2.93	2.42	4.82	2.28	2.64
Y 75.0	4.66	1.42	2.49	4.24	2.61	1.87	5.95	2.45	2.14	4.51	1.99	2.33
Y 76.0	4.35	1.17	2.30	4.13	2.33	1.47	5.65	2.06	1.87	4.12	1.80	2.08
Y 77.0	4.08	1.04	1.87	3.97	2.07	1.37	5.20	1.94	1.58	4.09	1.64	1.85
Y 78.0	3.76	1.01	1.97	3.57	1.91	1.25	4.97	1.76	1.53	3.69	1.50	1.88
Y 79.0	3.63	1.10	1.85	3.38	1.86	1.38	4.65	1.62	1.33	3.50	1.43	1.65
Y 80.0	3.58	1.17	1.80	3.22	1.63	1.16	4.21	1.65	1.29	3.36	1.28	1.58
Y 81.0	3.42	1.05	1.77	3.02	1.71	1.10	3.99	1.56	1.25	3.24	1.23	1.62
Y 82.0	3.28	0.95	1.55	2.72	1.77	1.14	3.68	1.50	1.08	2.95	1.15	1.59
Y 83.0	3.20	0.94	1.61	2.36	1.62	1.06	3.19	1.46	1.17	2.52	1.13	1.34
Y 84.0	2.79	0.87	1.52	1.86	1.47	1.01	2.65	1.52	1.23	2.19	1.03	1.48
Y 85.0	2.41	1.00	1.48	1.40	1.53	1.09	2.24	1.45	1.17	1.56	1.12	1.39
Y 86.0	2.22	0.85	1.51	0.96	1.50	1.02	1.96	1.40	1.23	1.53	0.94	1.45
Y 87.0	1.94	0.95	1.34	0.95	1.44	1.10	1.75	1.39	1.04	1.36	0.99	1.39
Y 88.0	1.86	0.94	1.41	0.96	1.56	1.03	1.52	1.41	1.09	1.49	1.04	1.39
Y 89.0	1.70	0.93	1.32	0.92	1.48	1.04	1.27	1.30	0.98	1.52	0.91	1.30
Y 90.0	1.63	0.94	1.24	0.97	1.48	0.99	1.33	1.41	0.98	1.53	0.95	1.38
Y 91.0	1.53	0.94	1.29	0.87	1.21	0.95	1.22	1.24	1.00	1.44	0.97	1.27
Y 92.0	1.48	0.93	1.32	0.96	1.44	1.04	1.09	1.21	0.97	1.46	0.93	1.33
Y 93.0	1.53	0.89	1.39	0.87	1.34	1.10	1.03	1.28	0.94	1.45	0.94	1.33

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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
Y 94.0	1.65	0.92	1.26	0.96	1.26	1.14	1.08	1.22	0.85	1.44	0.91	1.34
Y 95.0	1.59	0.87	1.36	1.11	1.38	1.07	1.11	1.15	0.90	1.43	0.88	1.32
Y 96.0	1.57	0.99	1.33	0.94	1.36	1.16	1.13	1.22	0.97	1.37	1.05	1.33
Y 97.0	1.54	0.93	1.31	1.05	1.38	1.16	1.05	1.23	0.79	1.50	0.99	1.28
Y 98.0	1.61	1.02	1.25	1.05	1.37	1.02	1.06	1.23	0.86	1.45	1.00	1.33
Y 99.0	1.44	0.99	1.26	1.00	1.33	1.06	1.05	1.28	1.01	1.41	1.03	1.27
Y 100.0	1.55	0.93	1.20	1.04	1.34	1.06	1.05	1.08	0.94	1.46	0.99	1.33
Y 101.0	1.51	0.94	1.30	1.02	1.35	1.12	1.08	1.24	0.80	1.44	0.89	1.35
Y 102.0	1.55	0.90	1.38	0.98	1.29	1.12	0.94	1.17	0.86	1.41	1.05	1.36
Y 103.0	1.42	0.94	1.36	1.02	1.33	1.15	0.95	1.17	0.94	1.48	1.03	1.28
Y 104.0	1.55	0.86	1.18	0.94	1.38	1.00	0.92	1.20	0.92	1.38	1.08	1.22
Y 105.0	1.59	0.92	1.31	1.04	1.34	1.13	0.92	1.32	1.03	1.33	1.00	1.32
Y 106.0	1.48	0.94	1.18	0.98	1.36	1.04	1.03	1.24	0.95	1.26	0.99	1.36
Y 107.0	1.56	0.83	1.11	1.03	1.41	1.15	1.09	1.25	1.06	1.41	1.00	1.37
Y 108.0	1.42	0.96	1.05	0.94	1.40	1.07	1.06	1.19	0.99	1.39	1.08	1.32
Y 109.0	1.67	0.96	0.97	0.99	1.28	1.12	1.09	1.23	1.09	1.26	1.00	1.33
Y 110.0	1.59	0.96	1.15	1.09	1.19	1.21	0.94	1.25	1.09	1.20	0.92	1.45
Y 111.0	1.51	0.93	1.18	1.08	1.21	1.15	1.00	1.20	1.10	1.26	1.13	1.34
Y 112.0	1.49	1.02	1.04	1.18	1.30	1.05	1.00	1.26	1.14	1.38	1.08	1.46
Y 113.0	1.55	0.91	1.21	1.07	1.21	1.11	0.94	1.25	1.09	1.29	1.27	1.39
Y 114.0	1.60	0.94	1.25	1.18	1.28	1.07	1.10	1.18	1.12	1.39	1.10	1.27
Y 115.0	1.50	1.04	1.26	1.07	1.34	1.27	1.00	1.33	1.07	1.43	1.10	1.39
Y 116.0	1.61	1.06	1.22	1.04	1.40	1.12	1.06	1.18	1.11	1.37	1.15	1.40
Y 117.0	1.52	1.13	1.22	1.10	1.26	1.14	1.16	1.38	1.20	1.39	1.29	1.34
Y 118.0	1.54	1.16	1.24	1.12	1.32	1.42	1.01	1.33	1.28	1.41	1.26	1.44
Y 119.0	1.68	1.24	1.23	1.06	1.43	1.27	1.05	1.32	1.24	1.57	1.34	1.48
Y 120.0	1.50	1.23	1.32	1.12	1.49	1.38	1.28	1.42	1.35	1.63	1.39	1.58
Y 121.0	1.61	1.18	1.34	1.09	1.45	1.27	1.20	1.46	1.33	1.57	1.50	1.79
Y 122.0	1.75	1.19	1.16	1.22	1.46	1.35	1.21	1.33	1.27	1.41	1.48	1.80
Y 123.0	1.72	1.36	1.36	1.31	1.32	1.32	1.40	1.41	1.28	1.59	1.58	1.73
Y 124.0	1.89	1.43	1.35	1.41	1.41	1.44	1.37	1.52	1.34	1.57	1.46	1.84
Y 125.0	1.99	1.51	1.37	1.35	1.66	1.53	1.46	1.61	1.32	1.64	1.51	1.87
Y 126.0	1.92	1.55	1.51	1.32	1.65	1.46	1.51	1.65	1.45	1.70	1.56	1.90
Y 127.0	2.02	1.64	1.46	1.45	1.50	1.64	1.64	1.75	1.52	1.86	1.83	2.05
Y 128.0	2.01	1.66	1.68	1.47	1.74	1.77	1.66	1.72	1.53	1.82	1.76	2.18
Y 129.0	2.15	1.63	1.69	1.61	1.83	1.80	1.83	1.72	1.74	1.89	1.87	2.18
Y 130.0	2.17	1.83	1.81	1.72	1.79	1.90	1.80	1.90	1.77	2.09	1.88	2.36
Y 131.0	2.45	1.94	1.84	1.75	2.03	1.97	1.88	1.83	1.83	2.10	1.95	2.36
Y 132.0	2.37	1.95	1.87	1.86	2.01	1.88	1.93	1.86	1.99	2.15	2.09	2.53
Y 133.0	2.46	2.09	2.10	1.88	2.20	1.96	2.04	1.98	2.05	2.16	2.04	2.57
Y 134.0	2.42	2.13	2.10	1.94	2.31	1.89	2.09	1.99	2.08	2.44	2.22	2.61
Y 135.0	2.50	2.25	2.16	2.07	2.37	2.20	2.24	2.20	2.25	2.44	2.32	2.83
Y 136.0	2.62	2.31	2.34	2.12	2.32	2.26	2.34	2.17	2.28	2.63	2.44	2.80
Y 137.0	2.66	2.47	2.35	2.16	2.44	2.27	2.37	2.48	2.32	2.72	2.58	2.86
Y 138.0	2.79	2.57	2.33	2.25	2.55	2.47	2.49	2.42	2.44	2.73	2.60	2.99
Y 139.0	2.96	2.83	2.36	2.41	2.60	2.46	2.56	2.38	2.56	2.84	2.78	3.16
Y 140.0	3.00	2.76	2.59	2.48	2.81	2.54	2.76	2.53	2.64	2.88	2.79	3.16

