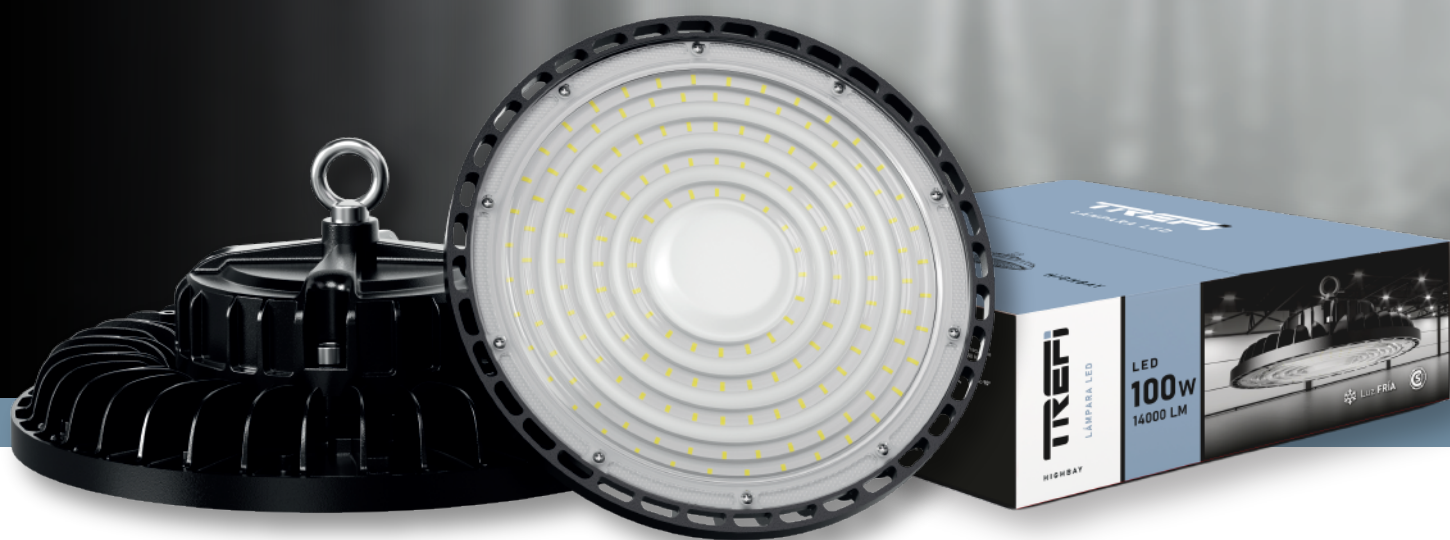




LÁMPARA LED HIGHBAY

200 W

Certificación
Seguridad Eléctrica



 Luz fría
6000K

HIGHBAY 100W

LÁMPARA LED

Lámpara Led para depósitos, galpones y grandes superficies.



Potencia **200W**
Voltaje **AC100 - 250Vca**

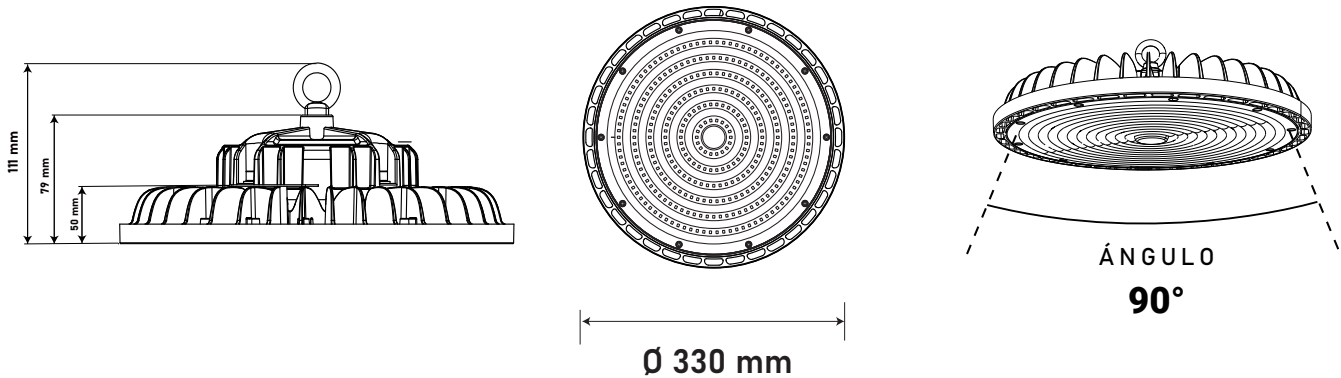


Luz fría
6000K

LM 140 LM/W



Flujo luminoso
28.000 LM



ESPECIFICACIONES TÉCNICAS

MODELO	IM2201003	TEMPERATURA LUZ	Fría 6000K
POTENCIA	200W	FACTOR DE POTENCIA	0.95
LÚMENES POR WATT	140 lm x W	EFICIENCIA ENERGÉTICA	A+
FLUJO LUMINOSO	28.000	PROTECCIÓN IP	IP65
VOLTAJE	AC100-250Vca	FACTOR IK	IK08
FRECUENCIA	50 hz	MATERIAL DEL CUERPO	Aluminio
ÁNGULO	90°	MATERIAL DEL LENTE	Policarbonato
CRI	>80	TIPO DE CHIP	San'an
VIDA ÚTIL	30.000 hs	CLASE	I
VIDA ÚTIL (ON/OFF)	15.000 maniobras	SECCIÓN DEL CABLE	Tipo Taller Siliconado 3x0,75
TAMAÑO DE LA LÁMPARA	Ø330x111mm	CHICOTE	30 cm de Cable
PESO DE LA LÁMPARA	2.9kg	GARANTÍA	3 años

PRECAUCIONES

- A.** La instalación de la luminaria debe ser realizada por personal técnico calificado.
- B.** Trabaje solo bajo condiciones seguras (con el módulo y herramientas adecuadas).
- C.** No reemplazar o remover luminarias sin antes realizar la desconexión de la alimentación.
- D.** La luminaria no debe ser utilizada sin todas las cubiertas colocadas en su correcta posición.
- E.** No conecte esta luminaria mientras está en su embalaje.



www.trefi.com.ar



info@trefi.com.ar



@trefi.ok



(+ 54 911) 3754-7500

TREFI

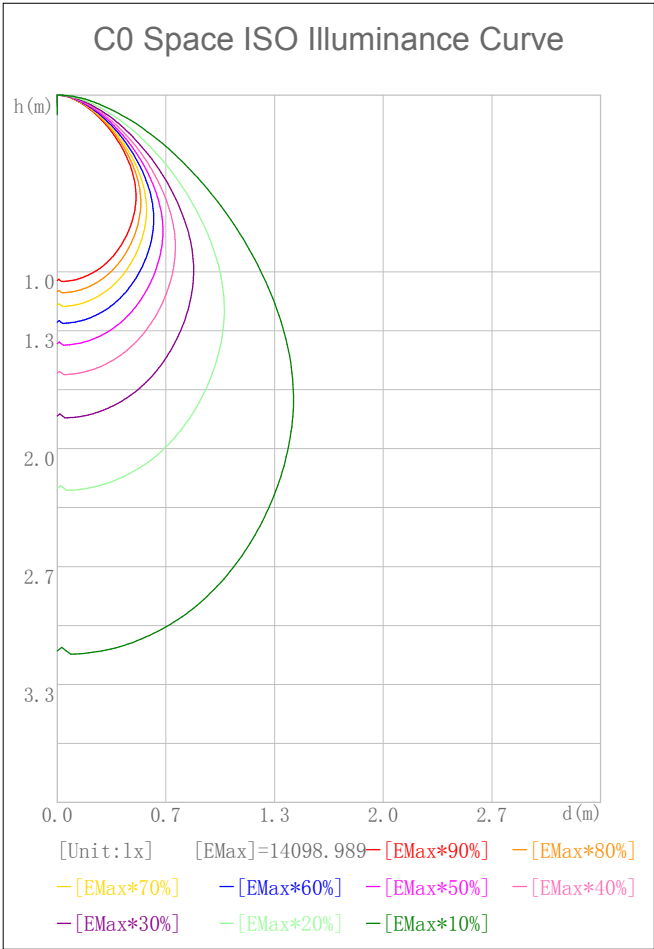
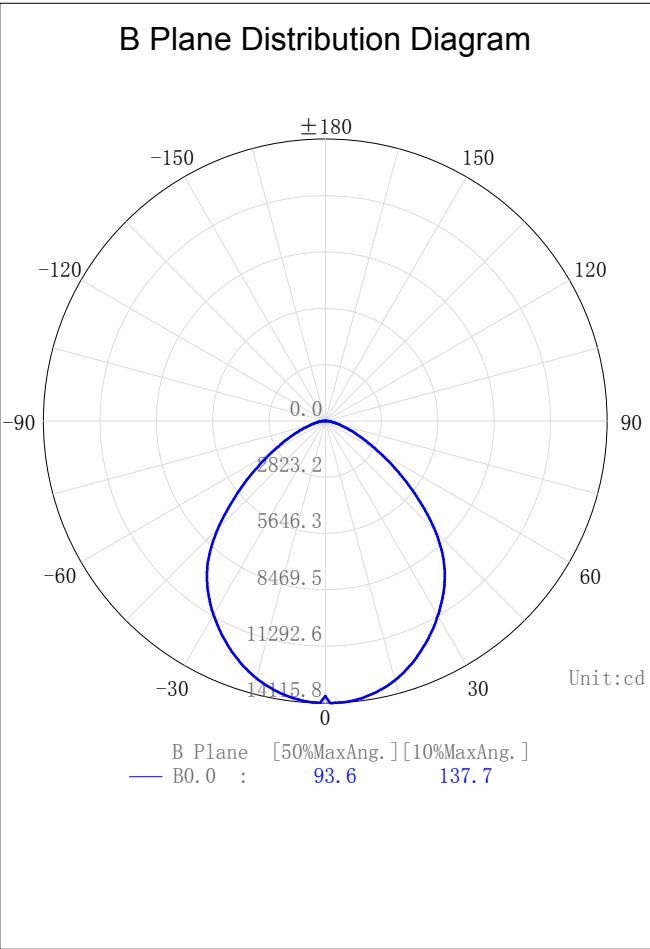
Flood Luminaire Photometric Data

Description Information

Luminary Name: IM2201003	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: 3030	Test Date: 2023/04/04
Manufacture:	Shld. Ang(°):	Test Machine: GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.100m*0.100m*0.100m	Lum. Area (m2): 0.020	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25
		Humidity (%): 50.0

Character Parameter

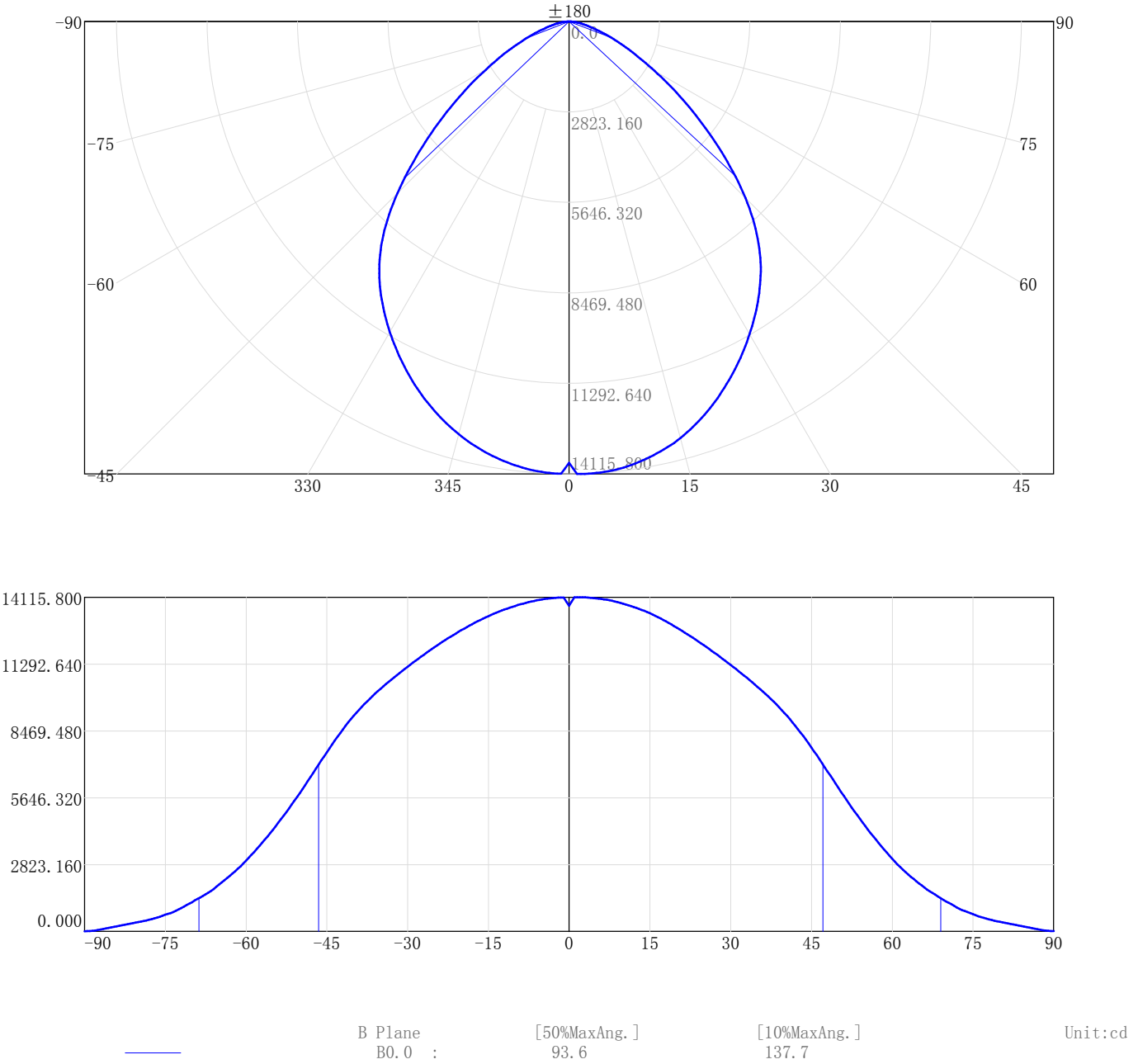
Lamp Speciality Parameter	Luminaire Speciality Parameter		
Rated Flux(lm): 28612.869	Luminary Flux(lm): 28612.866	Beam Lumens(lm): 19675.90	
Rated Power(W):	Luminary Efficiency: 100.00%	Beam Efficiency(%): 68.77	
Rated Voltage(V):	Luminary EER(lm/W): 136.057	Field Lumens(lm): 27439.01	
Tested Power(W): 210.300	Max. Candela(cd): 14115.800	Field Efficiency(%): 95.90	
Lamps' Inside: 1	Max Cand@Ang. (°): B=0.0 β=2.0	ErP Φuse(120°): 25641.700lm	
Tested Electrics(V, A, pf): 220.3, 0.984, 0.97	Beam Angle (50%) (V, H): 89.9(°), 93.6(°)	IRF(%): 128.873	
Lamp Size (W*L*H): 0.100m*0.100m*0.100m	Field Angle (10%) (V, H): 136.8(°), 138.0(°)		



2D Plane Light Intensity Distribution Curve

Lum. Name: IM2201003	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: 3030	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/04

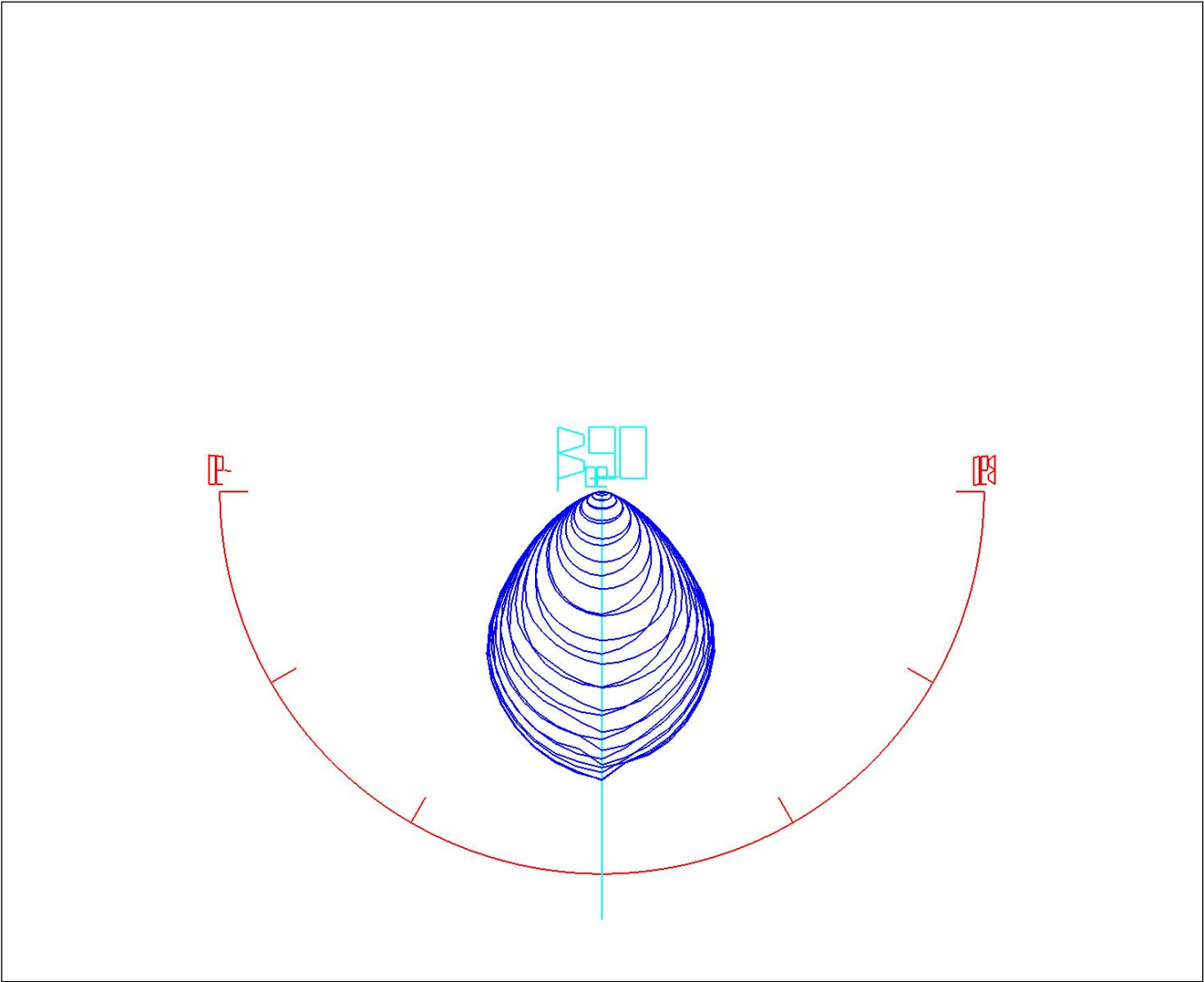
B Plane Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: IM2201003	Lum. Catelog:	Test ID:
Lamp Name: SMD	Lamp Catelog: 3030	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/04

3D Light Intensity Distribution Modal



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

Zone Lumens Tabulation

	β -90.0	β -85.0	β -80.0	β -75.0	β -70.0	β -65.0	β -60.0	β -55.0	β -50.0	β -45.0	β -40.0	β -35.0	β -30.0
B-90.0	0.00	0.02	0.04	0.06	0.10	0.14	0.20	0.27	0.36	0.45	0.54	0.64	
B-85.0	0.01	0.03	0.07	0.15	0.27	0.43	0.63	0.84	1.06	1.28	1.50	1.70	
B-80.0	0.01	0.04	0.13	0.30	0.53	0.80	1.11	1.44	1.78	2.12	2.46	2.79	
B-75.0	0.01	0.06	0.21	0.45	0.77	1.14	1.57	2.04	2.57	3.16	3.84	4.57	
B-70.0	0.01	0.09	0.29	0.60	0.99	1.49	2.08	2.81	3.73	4.83	6.06	7.40	
B-65.0	0.01	0.12	0.36	0.73	1.23	1.87	2.74	3.92	5.40	7.18	9.13	11.11	
B-60.0	0.01	0.14	0.43	0.87	1.47	2.35	3.63	5.35	7.51	9.91	12.50	15.29	
B-55.0	0.02	0.17	0.50	1.00	1.76	2.95	4.70	7.01	9.74	12.95	16.62	20.58	
B-50.0	0.02	0.19	0.56	1.14	2.09	3.65	5.90	8.72	12.28	16.56	21.43	26.61	
B-45.0	0.02	0.21	0.61	1.29	2.47	4.41	7.09	10.62	15.11	20.54	26.62	33.15	
B-40.0	0.03	0.23	0.67	1.44	2.86	5.15	8.33	12.65	18.12	24.65	32.08	40.22	
B-35.0	0.03	0.25	0.72	1.60	3.26	5.86	9.61	14.73	21.20	28.82	37.76	47.30	
B-30.0	0.03	0.26	0.77	1.75	3.63	6.55	10.86	16.78	24.21	33.12	43.24	53.64	
B-25.0	0.03	0.27	0.81	1.89	3.95	7.19	12.02	18.69	27.09	37.22	48.24	58.76	
B-20.0	0.03	0.28	0.84	2.01	4.22	7.75	13.05	20.37	29.68	40.78	52.33	62.70	
B-15.0	0.03	0.29	0.87	2.11	4.43	8.20	13.90	21.76	31.83	43.61	55.31	65.57	
B-10.0	0.03	0.30	0.89	2.17	4.58	8.51	14.50	22.78	33.41	45.60	57.29	67.52	
B-5.0	0.03	0.30	0.90	2.20	4.65	8.68	14.83	23.37	34.34	46.74	58.40	68.63	
B0.0	0.03	0.30	0.90	2.20	4.64	8.65	14.76	23.26	34.14	46.46	58.04	68.14	
B5.0	0.03	0.30	0.89	2.16	4.54	8.42	14.30	22.44	32.85	44.77	56.23	66.10	
B10.0	0.03	0.29	0.87	2.09	4.38	8.05	13.59	21.22	30.93	42.28	53.57	63.31	
B15.0	0.03	0.28	0.84	1.98	4.15	7.56	12.65	19.66	28.52	39.01	49.96	59.72	
B20.0	0.03	0.27	0.80	1.86	3.86	6.97	11.55	17.85	25.73	35.11	45.33	55.32	
B25.0	0.03	0.26	0.76	1.72	3.53	6.33	10.34	15.87	22.74	30.83	40.13	50.20	
B30.0	0.03	0.25	0.71	1.57	3.15	5.64	9.09	13.79	19.68	26.57	34.80	43.93	
B35.0	0.03	0.23	0.66	1.42	2.76	4.93	7.87	11.72	16.64	22.58	29.40	36.94	
B40.0	0.02	0.21	0.61	1.27	2.38	4.19	6.69	9.79	13.77	18.70	24.23	30.16	
B45.0	0.02	0.19	0.55	1.12	2.03	3.45	5.53	8.09	11.16	14.97	19.35	24.02	
B50.0	0.02	0.17	0.49	0.99	1.72	2.81	4.37	6.47	8.89	11.68	14.87	18.36	
B55.0	0.01	0.14	0.43	0.85	1.44	2.27	3.40	4.89	6.78	8.86	11.15	13.57	
B60.0	0.01	0.11	0.36	0.72	1.20	1.82	2.62	3.64	4.89	6.36	7.95	9.58	
B65.0	0.01	0.09	0.28	0.58	0.97	1.45	2.01	2.68	3.47	4.39	5.38	6.41	
B70.0	0.01	0.06	0.21	0.44	0.75	1.11	1.53	1.98	2.47	3.00	3.56	4.14	
B75.0	0.01	0.04	0.13	0.29	0.51	0.77	1.06	1.37	1.70	2.03	2.36	2.67	
B80.0	0.01	0.03	0.07	0.14	0.26	0.41	0.58	0.77	0.96	1.16	1.35	1.53	
B85.0	0.00	0.02	0.03	0.05	0.08	0.12	0.16	0.21	0.26	0.32	0.37	0.42	
B90.0													
Total	0.04	0.33	1.05	2.19	3.76	5.91	8.85	12.91	18.28	24.98	33.43	43.69	

	β -30.0	β -25.0	β -20.0	β -15.0	β -10.0	β -5.0	β 0.0	β 5.0	β 10.0	β 15.0	β 20.0	β 25.0	β 30.0
B-90.0	0.69	0.70	0.69	0.66	0.63	0.58	0.58	0.62	0.66	0.68	0.69	0.68	
B-85.0	1.83	1.86	1.87	1.84	1.78	1.68	1.67	1.74	1.79	1.80	1.79	1.74	
B-80.0	3.08	3.31	3.50	3.64	3.71	3.70	3.69	3.67	3.58	3.41	3.20	2.96	
B-75.0	5.27	5.87	6.39	6.80	7.06	7.16	7.15	7.05	6.78	6.37	5.84	5.22	
B-70.0	8.74	9.88	10.81	11.51	11.94	12.09	12.06	11.85	11.36	10.62	9.68	8.58	
B-65.0	13.01	14.67	16.12	17.29	18.09	18.45	18.42	18.02	17.19	15.98	14.49	12.77	
B-60.0	18.17	20.82	23.10	24.92	26.15	26.72	26.68	26.03	24.71	22.83	20.51	17.87	
B-55.0	24.59	28.33	31.51	34.03	35.75	36.55	36.50	35.59	33.78	31.19	27.96	24.18	
B-50.0													

Zone Lumens Tabulation - (Cont.)

	β -30.0	β -25.0	β -20.0	β -15.0	β -10.0	β -5.0	β 0.0	β 5.0	β 10.0	β 15.0	β 20.0	β 25.0	β 30.0
B-50.0	31.85	36.84	41.14	44.58	46.93	48.02	47.94	46.68	44.20	40.67	36.33	31.33	
B-45.0	39.89	46.34	51.83	56.06	58.84	60.10	59.96	58.44	55.45	51.10	45.58	39.14	
B-40.0	48.41	55.92	62.02	66.44	69.26	70.48	70.28	68.68	65.56	60.94	54.74	47.29	
B-35.0	56.38	64.13	70.25	74.58	77.31	78.46	78.20	76.55	73.40	68.76	62.50	54.79	
B-30.0	62.89	70.49	76.54	80.98	83.73	84.87	84.55	82.79	79.49	74.67	68.40	60.77	
B-25.0	67.84	75.41	81.59	86.33	89.32	90.54	90.15	88.19	84.57	79.38	72.89	65.25	
B-20.0	71.62	79.31	85.83	90.93	94.23	95.52	95.04	92.86	88.86	83.27	76.42	68.74	
B-15.0	74.55	82.47	89.33	94.76	98.30	99.54	98.86	96.46	92.19	86.36	79.68	72.36	
B-10.0	76.70	84.98	92.13	97.75	101.39	102.42	101.26	98.64	94.79	89.90	83.41	75.54	
B-5.0	78.00	86.60	94.05	99.96	103.90	104.88	102.66	101.92	99.18	93.82	86.51	77.99	
B0.0	77.36	85.77	92.97	98.40	101.42	102.58	105.17	104.57	100.85	94.94	87.30	78.57	
B5.0	74.81	82.56	89.02	93.98	98.06	101.14	102.64	101.89	98.67	93.06	85.72	77.25	
B10.0	71.54	78.70	85.31	91.20	95.64	98.59	99.53	98.21	95.07	89.97	83.14	75.09	
B15.0	67.85	75.26	81.95	87.53	91.81	94.55	95.21	93.70	90.53	85.82	79.57	72.13	
B20.0	64.19	71.54	77.75	82.89	86.98	89.47	90.01	88.56	85.41	81.01	75.26	68.27	
B25.0	59.43	66.92	72.84	77.66	81.39	83.63	84.10	82.76	79.83	75.65	70.25	63.39	
B30.0	52.92	60.77	66.94	71.76	75.21	77.23	77.63	76.39	73.66	69.51	64.07	57.08	
B35.0	44.87	52.38	58.90	64.07	67.64	69.64	70.01	68.76	65.98	61.64	55.92	48.97	
B40.0	36.37	42.56	48.55	53.59	57.24	59.35	59.76	58.48	55.66	51.37	45.90	39.72	
B45.0	28.70	33.30	37.86	41.86	44.93	46.79	47.17	46.05	43.61	40.04	35.63	30.89	
B50.0	21.94	25.44	28.72	31.51	33.63	34.91	35.15	34.31	32.54	29.94	26.70	23.19	
B55.0	16.01	18.47	20.79	22.75	24.22	25.06	25.18	24.56	23.28	21.43	19.14	16.63	
B60.0	11.24	12.90	14.38	15.59	16.47	16.96	17.01	16.60	15.79	14.64	13.24	11.69	
B65.0	7.43	8.48	9.44	10.23	10.81	11.14	11.18	10.94	10.44	9.71	8.77	7.69	
B70.0	4.73	5.32	5.86	6.30	6.64	6.84	6.85	6.67	6.34	5.89	5.34	4.73	
B75.0	2.98	3.27	3.53	3.74	3.89	3.98	3.98	3.90	3.74	3.53	3.28	2.99	
B80.0	1.70	1.87	2.01	2.12	2.20	2.25	2.26	2.21	2.14	2.03	1.90	1.74	
B85.0	0.48	0.54	0.59	0.63	0.67	0.70	0.70	0.69	0.66	0.63	0.59	0.54	
B90.0													
Total	56.06	70.68	87.52	106.62	127.95	151.44	176.61	202.90	229.50	255.86	281.62	306.56	

	β 30.0	β 35.0	β 40.0	β 45.0	β 50.0	β 55.0	β 60.0	β 65.0	β 70.0	β 75.0	β 80.0	β 85.0	β 90.0
B-90.0	0.64	0.55	0.46	0.38	0.30	0.22	0.16	0.11	0.07	0.04	0.02	0.01	
B-85.0	1.63	1.46	1.28	1.08	0.87	0.67	0.48	0.31	0.18	0.09	0.03	0.01	
B-80.0	2.68	2.38	2.08	1.76	1.45	1.14	0.83	0.56	0.33	0.15	0.05	0.01	
B-75.0	4.50	3.79	3.13	2.55	2.05	1.60	1.17	0.79	0.48	0.23	0.07	0.01	
B-70.0	7.33	6.04	4.83	3.76	2.84	2.11	1.52	1.02	0.62	0.31	0.10	0.01	
B-65.0	10.86	8.96	7.10	5.38	3.94	2.80	1.91	1.25	0.76	0.38	0.13	0.02	
B-60.0	15.06	12.33	9.79	7.45	5.33	3.65	2.41	1.51	0.89	0.45	0.15	0.02	
B-55.0	20.16	16.26	12.71	9.64	7.00	4.70	2.99	1.81	1.03	0.51	0.18	0.02	
B-50.0	26.08	20.93	16.14	11.99	8.66	5.92	3.67	2.15	1.17	0.57	0.20	0.02	
B-45.0	32.47	25.99	19.98	14.68	10.41	7.12	4.44	2.51	1.32	0.63	0.22	0.03	
B-40.0	39.25	31.28	23.95	17.62	12.40	8.31	5.21	2.90	1.48	0.69	0.24	0.03	
B-35.0	45.91	36.67	28.02	20.73	14.52	9.55	5.94	3.30	1.64	0.74	0.26	0.03	
B-30.0	51.77	41.81	32.35	23.88	16.65	10.83	6.63	3.69	1.80	0.79	0.27	0.03	
B-25.0	56.42	46.78	36.61	26.95	18.69	12.06	7.27	4.03	1.94	0.83	0.28	0.03	
B-20.0	60.55	51.09	40.41	29.78	20.54	13.18	7.84	4.32	2.06	0.87	0.29	0.04	
B-15.0	64.03	54.45	43.52	32.20	22.12	14.12	8.32	4.55	2.17	0.90	0.30	0.04	
B-10.0													

HIGHBAY 100W

LÁMPARA LED

Zone Lumens Tabulation - (Cont.)

	β 30.0	β 35.0	β 40.0	β 45.0	β 50.0	β 55.0	β 60.0	β 65.0	β 70.0	β 75.0	β 80.0	β 85.0	β 90.0
B-10.0	66.73	56.96	45.87	34.07	23.35	14.84	8.68	4.70	2.24	0.92	0.31	0.04	
B-5.0	68.70	58.67	47.43	35.33	24.15	15.28	8.89	4.79	2.27	0.93	0.31	0.04	
B0.0	69.15	59.04	47.74	35.54	24.25	15.32	8.90	4.79	2.27	0.93	0.31	0.04	
B5.0	68.07	58.07	46.79	34.69	23.64	14.95	8.71	4.70	2.23	0.92	0.31	0.04	
B10.0	66.21	56.30	45.03	33.15	22.56	14.29	8.37	4.53	2.16	0.90	0.30	0.04	
B15.0	63.55	53.66	42.43	30.96	21.07	13.38	7.90	4.29	2.05	0.87	0.29	0.04	
B20.0	59.92	50.02	38.96	28.23	19.25	12.28	7.32	4.00	1.93	0.83	0.28	0.03	
B25.0	55.01	45.21	34.74	25.12	17.19	11.03	6.65	3.65	1.78	0.79	0.27	0.03	
B30.0	48.63	39.28	30.02	21.80	15.01	9.73	5.91	3.27	1.63	0.74	0.26	0.03	
B35.0	41.03	32.85	25.19	18.45	12.79	8.42	5.13	2.87	1.47	0.68	0.24	0.03	
B40.0	33.14	26.64	20.57	15.18	10.68	7.09	4.36	2.47	1.31	0.63	0.22	0.03	
B45.0	25.91	20.96	16.28	12.16	8.72	5.77	3.62	2.11	1.15	0.57	0.20	0.02	
B50.0	19.55	15.89	12.52	9.53	6.78	4.60	2.93	1.77	1.01	0.51	0.18	0.02	
B55.0	14.16	11.76	9.39	7.09	5.16	3.55	2.34	1.48	0.88	0.44	0.15	0.02	
B60.0	10.06	8.32	6.64	5.11	3.77	2.71	1.86	1.23	0.74	0.37	0.12	0.02	
B65.0	6.62	5.54	4.49	3.56	2.74	2.05	1.48	1.00	0.61	0.30	0.10	0.01	
B70.0	4.15	3.59	3.03	2.50	2.01	1.56	1.14	0.77	0.46	0.22	0.07	0.01	
B75.0	2.69	2.39	2.06	1.74	1.41	1.09	0.80	0.53	0.31	0.15	0.05	0.01	
B80.0	1.57	1.39	1.20	1.00	0.81	0.62	0.45	0.29	0.17	0.08	0.03	0.01	
B85.0	0.49	0.43	0.38	0.32	0.26	0.21	0.16	0.11	0.07	0.04	0.02	0.01	
B90.0													
Total	330.46	353.06	374.21	393.74	411.46	427.23	440.87	452.18	461.04	467.26	470.69	471.07	

β 90.0	Total
B-90.0	2.05
B-85.0	4.70
B-80.0	7.70
B-75.0	11.12
B-70.0	14.93
B-65.0	19.51
B-60.0	25.74
B-55.0	33.20
B-50.0	42.59
B-45.0	52.77
B-40.0	64.28
B-35.0	77.14
B-30.0	91.65
B-25.0	107.69
B-20.0	125.05
B-15.0	143.71
B-10.0	163.68
B-5.0	184.82
B0.0	206.69
B5.0	228.50
B10.0	249.57
B15.0	269.39
B20.0	287.71
B25.0	304.52
B30.0	

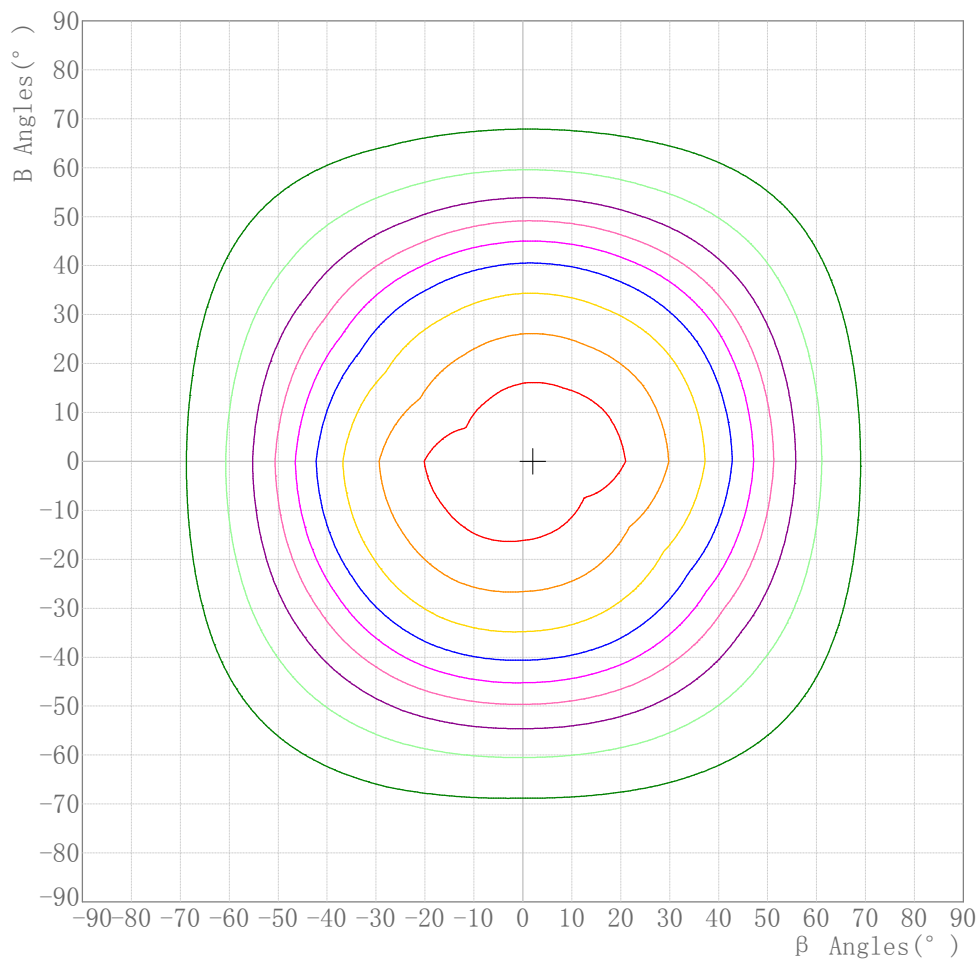
Zone Lumens Tabulation - (Cont.)

β 90.0	Total
B30.0	320.01
B35.0	334.31
B40.0	347.52
B45.0	359.67
B50.0	370.75
B55.0	380.75
B60.0	389.60
B65.0	397.27
B70.0	403.78
B75.0	409.16
B80.0	413.50
B85.0	416.95
B90.0	
Total	28612.87

Rectangle ISO Lighting Intensity Diagram

Lum. Name: IM2201003	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: 3030	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2023/04/04

ISO Lighting Intensity Curve



Curves:

[Unit: cd]

[IMax] =14115.800

- [IMax*90%]=12704.220
- [IMax*80%]=11292.640
- [IMax*70%]=9881.060
- [IMax*60%]=8469.480
- [IMax*50%]=7057.900
- [IMax*40%]=5646.320
- [IMax*30%]=4234.740
- [IMax*20%]=2823.160
- [IMax*10%]=1411.580

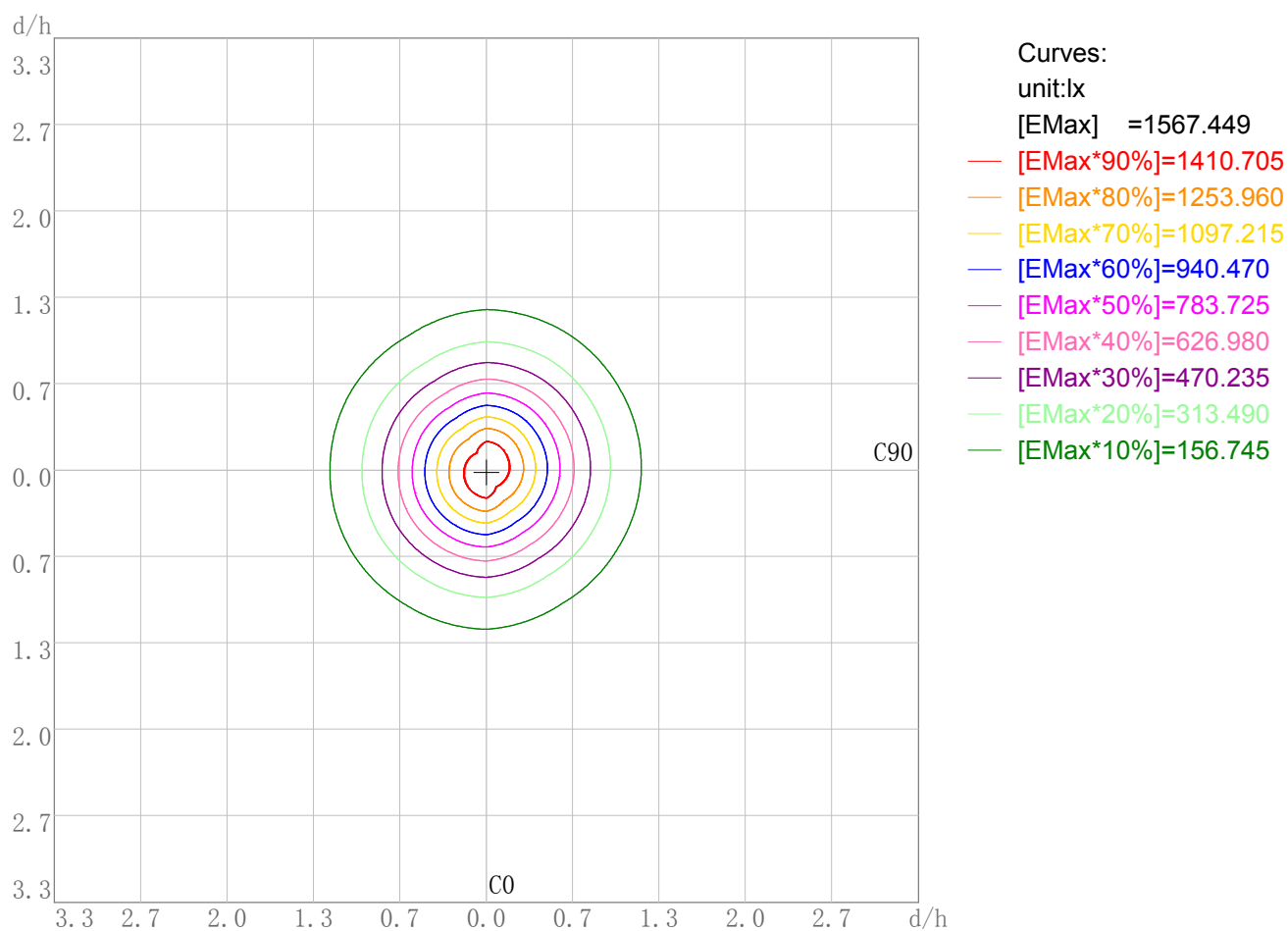
Maximum Light Intensity(cd): 14115.80

Maximum Cand.@Angle: H=2.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: IM2201003	Lum. Catalog: 3030	Test ID:
Lamp Name: SMD	Lamp Catalog: 3030	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2023/04/04

Plane ISO-Illuminance Curve

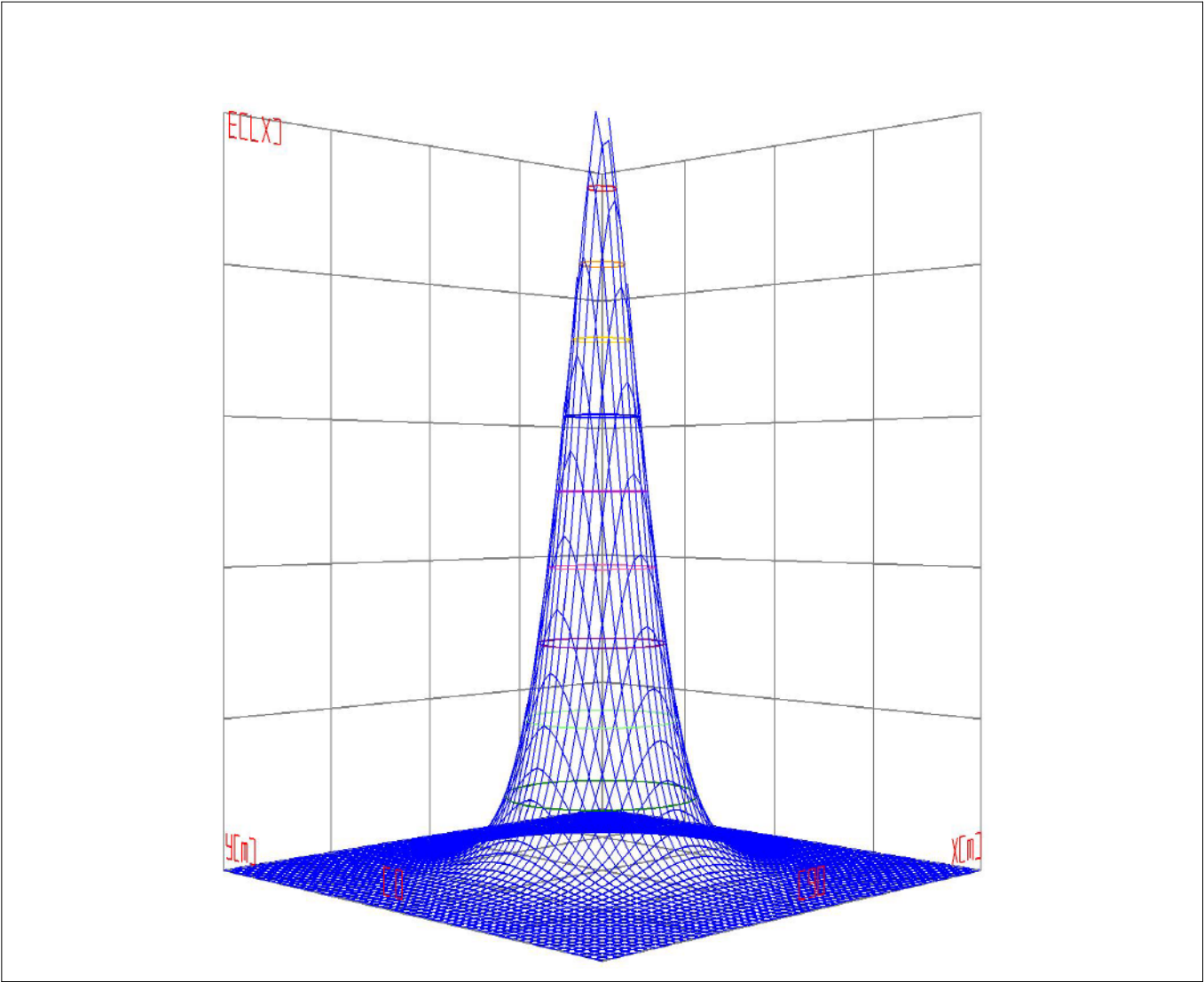


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 1567.45
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: IM2201003	Lum. Catelog:	Test ID:
Lamp Name: SMD	Lamp Catelog: 3030	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/04

3D Plane Illuminance Modal

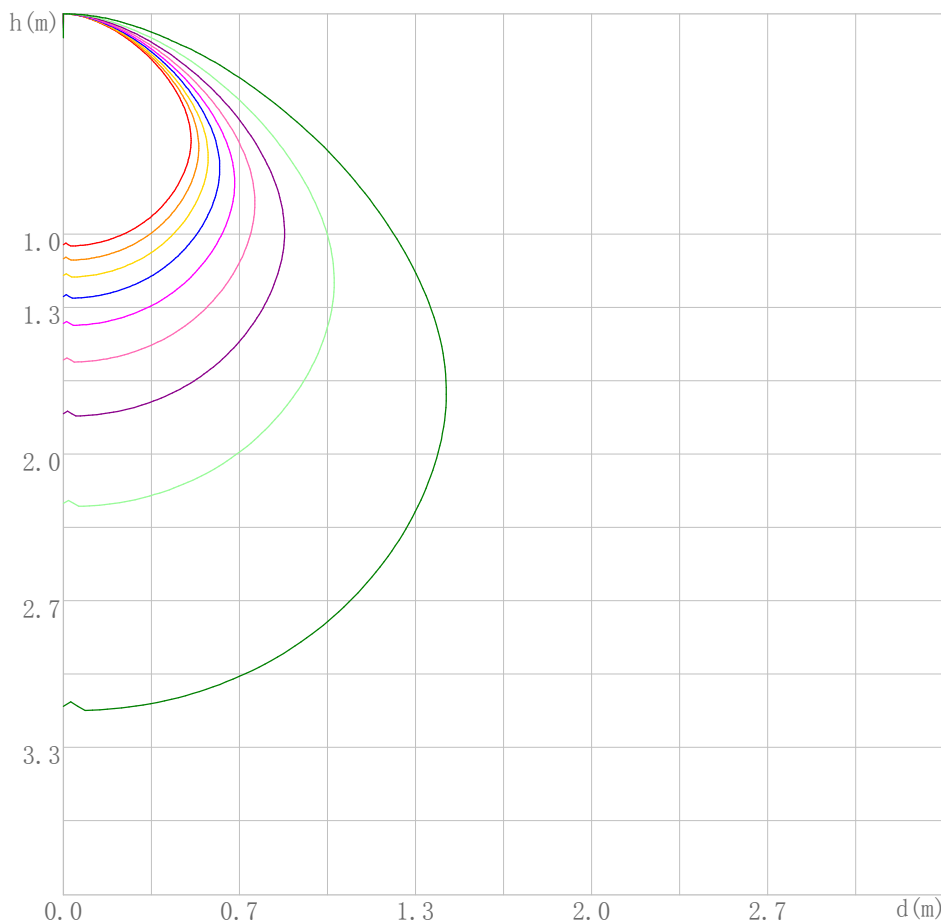


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: IM2201003	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: 3030	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2023/04/04

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =14098.989

— [EMax*90%]=12689.090

— [EMax*80%]=11279.191

— [EMax*70%]=9869.292

— [EMax*60%]=8459.393

— [EMax*50%]=7049.495

— [EMax*40%]=5639.596

— [EMax*30%]=4229.697

— [EMax*20%]=2819.798

— [EMax*10%]=1409.899

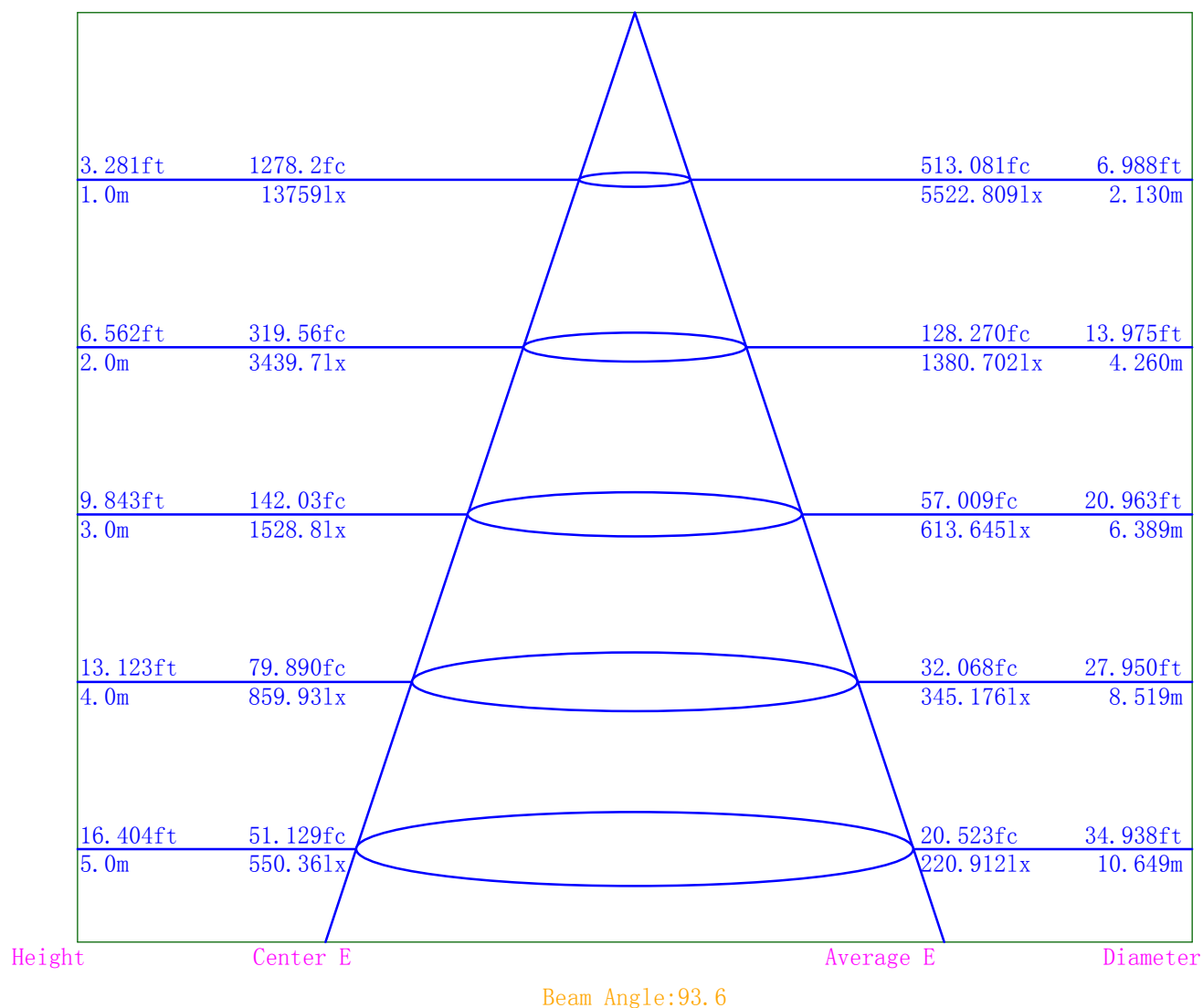
Space Plane Maximum Illuminance and @Angle:14098.99lx,1.5deg

Plane Maximum Lighting Intensity and @Angle:14115.800cd,0deg

Illuminance-Distance Diagram

Lum. Name: IM2201003	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: 3030	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2023/04/04

Illuminance-Distance Curve



Candela Tabulation

V/H	β -90.0	β -85.0	β -80.0	β -75.0	β -70.0	β -65.0	β -60.0	β -55.0	β -50.0	β -45.0	β -40.0	β -35.0
B-90.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	17.7	19.9	22.1	24.3	26.5
B-85.0	12.5	18.0	24.7	35.5	48.3	63.2	81.8	102.0	122.4	141.9	159.5	175.3
B-80.0	12.5	23.0	43.6	76.2	115.3	156.2	196.0	230.8	262.2	290.3	315.1	336.6
B-75.0	12.5	31.1	73.3	132.7	193.4	249.5	302.2	350.2	394.7	436.7	477.1	518.5
B-70.0	12.5	40.5	109.2	189.9	265.3	336.8	407.8	477.1	551.3	640.8	744.9	851.4
B-65.0	12.5	51.5	146.4	243.1	333.8	425.1	523.0	641.8	786.5	956.5	1140.5	1340.2
B-60.0	12.5	67.1	181.8	293.0	401.2	520.6	673.3	872.5	1107.3	1383.0	1653.2	1903.0
B-55.0	12.5	81.8	214.7	340.4	471.3	637.8	867.7	1154.4	1501.0	1838.2	2195.6	2575.4
B-50.0	12.5	96.9	245.1	385.7	547.8	774.4	1098.1	1489.6	1895.8	2361.3	2869.3	3395.1
B-45.0	12.5	111.7	272.9	430.1	632.7	939.9	1356.4	1812.4	2349.3	2960.5	3629.7	4306.5
B-40.0	12.5	125.2	298.2	474.0	727.8	1113.5	1601.5	2171.1	2844.6	3613.9	4427.6	5268.0
B-35.0	12.5	137.3	321.1	517.5	816.5	1286.1	1845.8	2543.0	3367.8	4272.3	5248.9	6301.3
B-30.0	12.5	147.8	341.2	560.3	915.5	1451.9	2100.9	2916.8	3887.1	4939.5	6096.7	7314.3
B-25.0	12.5	156.8	358.5	600.7	1009.3	1588.9	2338.9	3279.2	4385.3	5608.5	6934.5	8218.9
B-20.0	12.5	164.1	372.8	635.7	1094.3	1713.7	2548.0	3611.2	4835.9	6227.8	7681.3	8968.9
B-15.0	12.5	169.9	384.0	669.5	1160.6	1822.4	2728.5	3885.9	5232.5	6759.6	8281.8	9526.9
B-10.0	12.5	173.9	391.8	694.2	1207.2	1910.7	2869.3	4099.6	5546.4	7170.9	8715.8	9906.2
B-5.0	12.5	176.2	396.4	709.4	1234.8	1965.0	2958.4	4241.0	5753.6	7439.2	8987.7	10146.1
B0.0	12.5	176.8	397.5	714.6	1243.5	1983.4	2991.3	4298.9	5846.8	7565.1	9114.1	10255.7
B5.0	12.5	176.0	396.0	707.9	1229.2	1954.4	2934.2	4201.0	5693.3	7352.7	8878.8	10015.5
B10.0	12.5	173.6	391.2	691.4	1195.9	1890.0	2822.3	4023.0	5430.8	7001.6	8499.0	9652.4
B15.0	12.5	169.4	383.0	665.6	1143.6	1792.3	2661.2	3777.4	5069.5	6517.1	7965.5	9153.2
B20.0	12.5	163.6	371.6	630.9	1072.7	1675.0	2463.1	3474.9	4635.6	5929.7	7285.5	8495.6
B25.0	12.5	156.1	357.0	595.4	986.2	1545.9	2242.9	3126.7	4156.8	5277.4	6476.7	7667.2
B30.0	12.5	147.1	339.5	554.9	892.9	1405.6	2012.8	2755.6	3645.1	4596.9	5622.3	6789.8
B35.0	12.5	136.6	319.2	512.4	795.9	1238.1	1765.4	2376.7	3121.0	3924.3	4823.7	5794.9
B40.0	12.5	124.4	296.1	469.1	712.1	1061.1	1522.8	2025.5	2611.8	3298.6	4045.1	4811.5
B45.0	12.5	110.8	270.4	425.5	619.7	898.3	1280.5	1698.1	2135.3	2686.8	3290.7	3902.4
B50.0	12.5	96.0	242.6	381.5	537.6	745.0	1025.2	1390.4	1750.7	2129.8	2578.5	3049.0
B55.0	12.5	80.8	212.1	336.3	463.0	618.9	819.2	1059.5	1373.8	1663.0	1974.3	2293.0
B60.0	12.5	65.9	178.9	288.6	394.8	508.1	647.0	813.1	1001.0	1235.0	1453.7	1674.1
B65.0	12.5	50.3	144.1	238.6	327.8	415.8	507.3	612.5	729.2	869.4	1001.6	1153.8
B70.0	12.5	39.3	106.9	185.1	258.9	329.1	397.3	461.8	528.5	602.1	677.5	761.3
B75.0	12.5	29.9	70.8	129.2	186.9	241.6	292.4	338.7	381.9	422.1	459.9	495.6
B80.0	12.5	21.9	41.0	72.4	110.6	149.9	186.0	217.9	246.4	271.9	295.4	316.1
B85.0	12.5	17.4	22.5	31.7	43.0	56.4	74.0	89.1	104.3	119.0	132.1	143.4
B90.0	12.5	12.8	13.1	13.5	13.8	14.1	14.5	14.3	14.2	14.0	13.8	13.7
V/H	β -30.0	β -25.0	β -20.0	β -15.0	β -10.0	β -5.0	β 0.0	β 5.0	β 10.0	β 15.0	β 20.0	β 25.0
B-90.0	28.7	27.1	25.5	23.8	22.2	20.6	19.0	20.3	21.5	22.8	24.1	25.4
B-85.0	189.1	184.5	177.3	167.9	156.8	144.1	130.2	142.8	154.3	164.4	173.0	179.9
B-80.0	354.7	356.3	356.1	354.0	349.4	341.9	330.8	338.3	342.4	343.5	342.3	339.3
B-75.0	563.3	601.3	631.4	657.9	673.5	678.2	672.2	676.9	670.1	651.1	619.1	584.8
B-70.0	949.2	1033.2	1118.5	1184.2	1229.5	1252.1	1251.6	1248.3	1222.0	1173.6	1110.0	1039.4
B-65.0	1524.9	1677.2	1782.1	1861.1	1923.0	1956.8	1958.5	1953.1	1913.0	1839.5	1743.0	1624.8
B-60.0	2147.8	2380.8	2576.1	2737.3	2853.3	2917.3	2927.3	2906.3	2831.9	2707.3	2545.3	2358.8
B-55.0	2957.7	3317.6	3608.0	3846.1	4016.9	4113.5	4131.9	4101.6	3993.3	3810.9	3564.8	3264.5
B-50.0	3914.4	4399.7	4802.5	5124.0	5364.6	5503.9	5533.3	5485.9	5329.9	5079.1	4746.9	4336.9

Candela Tabulation - (Cont.)

V/H	β -30.0	β -25.0	β -20.0	β -15.0	β -10.0	β -5.0	β 0.0	β 5.0	β 10.0	β 15.0	β 20.0	β 25.0
B-45.0	4964.9	5601.8	6163.6	6595.5	6913.5	7094.2	7132.1	7065.0	6861.0	6528.3	6077.7	5509.5
B-40.0	6128.2	6927.8	7614.4	8110.7	8437.4	8611.4	8640.5	8568.2	8357.3	7994.5	7477.0	6793.0
B-35.0	7323.4	8218.2	8902.1	9377.0	9673.3	9821.2	9838.3	9759.6	9555.6	9216.4	8711.8	8014.4
B-30.0	8416.9	9280.6	9907.9	10342.8	10615.6	10747.6	10749.3	10669.0	10467.4	10140.2	9653.7	9001.7
B-25.0	9298.0	10087.5	10680.5	11119.6	11395.8	11534.3	11531.8	11442.2	11219.4	10866.1	10369.4	9742.7
B-20.0	9947.9	10710.8	11302.6	11764.3	12085.4	12238.0	12235.3	12126.6	11874.8	11470.3	10942.3	10300.5
B-15.0	10459.9	11196.0	11812.5	12319.6	12673.3	12843.3	12825.8	12698.2	12411.9	11974.4	11402.5	10756.9
B-10.0	10824.5	11588.1	12239.4	12762.9	13144.3	13309.8	13262.2	13099.1	12794.4	12335.3	11871.5	11306.0
B-5.0	11066.6	11862.4	12553.7	13112.4	13499.9	13668.9	13517.7	13281.0	13090.8	12888.5	12412.6	11761.0
B0.0	11183.9	12005.4	12728.3	13317.8	13752.9	14028.1	13758.9	14076.7	13850.3	13441.4	12837.8	12097.3
B5.0	10897.8	11652.9	12293.7	12769.7	13003.0	13237.6	13550.4	13730.2	13623.4	13246.5	12669.2	11955.8
B10.0	10495.8	11180.4	11736.6	12211.4	12684.6	13031.2	13275.5	13318.9	13204.9	12883.5	12355.4	11675.7
B15.0	9995.6	10616.8	11247.2	11814.4	12260.7	12611.0	12814.2	12809.0	12634.3	12337.8	11878.4	11276.9
B20.0	9399.0	10139.2	10749.4	11265.8	11687.7	12015.5	12192.4	12166.2	11981.6	11698.3	11280.8	10737.5
B25.0	8767.6	9564.2	10145.4	10603.0	11008.8	11302.0	11457.0	11433.4	11263.8	10977.7	10602.9	10098.4
B30.0	7890.1	8786.8	9420.5	9877.7	10250.3	10508.6	10647.4	10621.6	10471.6	10196.3	9830.6	9306.8
B35.0	6799.7	7708.2	8444.4	8989.8	9376.8	9625.1	9750.2	9724.1	9574.1	9289.4	8862.1	8273.0
B40.0	5604.7	6396.2	7115.5	7729.8	8184.3	8472.2	8611.5	8576.0	8399.1	8064.2	7565.2	6953.1
B45.0	4496.1	5077.0	5645.6	6188.4	6623.8	6913.1	7058.0	7023.9	6846.5	6514.5	6043.1	5495.0
B50.0	3517.7	3941.0	4354.4	4728.5	5034.7	5252.7	5363.2	5335.3	5189.8	4941.8	4598.8	4188.2
B55.0	2615.2	2934.3	3249.4	3516.0	3725.6	3868.2	3936.6	3910.0	3804.0	3622.0	3375.9	3074.9
B60.0	1899.2	2099.1	2292.4	2458.4	2593.5	2685.1	2726.6	2707.3	2633.9	2509.6	2345.0	2142.9
B65.0	1290.7	1419.0	1549.6	1661.2	1741.9	1788.6	1805.1	1797.3	1764.0	1706.5	1616.1	1489.9
B70.0	840.6	914.0	987.3	1052.4	1104.3	1139.0	1156.2	1146.6	1119.7	1075.9	1013.5	928.1
B75.0	528.9	566.5	600.3	630.1	653.5	669.7	678.2	670.9	655.3	631.5	599.7	565.8
B80.0	334.0	352.5	368.6	381.4	391.0	397.4	400.5	397.9	392.2	383.4	371.7	357.2
B85.0	153.1	163.9	173.2	180.8	186.9	191.3	194.0	192.2	188.8	183.7	177.0	168.8
B90.0	13.5	13.8	14.2	14.5	14.8	15.1	15.5	15.7	15.9	16.1	16.4	16.6
V/H	β 30.0	β 35.0	β 40.0	β 45.0	β 50.0	β 55.0	β 60.0	β 65.0	β 70.0	β 75.0	β 80.0	β 85.0
B-90.0	26.6	24.9	23.2	21.5	19.8	18.1	16.4	16.5	16.6	16.7	16.8	16.8
B-85.0	184.7	174.8	162.6	148.2	131.8	113.6	94.1	74.0	57.1	42.2	30.2	23.1
B-80.0	335.5	322.6	306.3	286.7	263.7	237.1	206.8	168.5	128.3	88.2	53.0	29.3
B-75.0	544.6	505.9	466.8	429.9	393.9	354.7	310.5	258.8	204.5	145.0	85.0	39.0
B-70.0	952.3	847.3	747.7	638.4	552.8	480.5	415.4	345.6	274.7	201.3	121.5	50.0
B-65.0	1481.2	1319.3	1131.2	953.5	797.1	650.4	532.2	433.8	343.2	253.4	158.3	62.4
B-60.0	2126.8	1874.2	1625.4	1365.6	1103.8	872.2	688.7	531.7	411.6	302.6	193.5	78.4
B-55.0	2895.8	2525.3	2161.8	1821.6	1495.3	1155.0	872.6	650.7	482.3	350.6	226.0	93.6
B-50.0	3842.2	3325.2	2797.7	2309.0	1880.5	1494.2	1103.3	798.4	562.1	397.2	255.8	108.9
B-45.0	4876.4	4210.5	3536.4	2879.1	2288.5	1816.0	1360.0	945.0	646.9	442.4	283.0	123.5
B-40.0	5996.7	5148.9	4313.4	3506.9	2771.1	2142.2	1622.9	1127.7	748.3	487.6	308.5	137.0
B-35.0	7130.5	6136.9	5110.1	4139.6	3298.9	2512.0	1864.4	1301.2	843.6	533.2	331.6	149.0
B-30.0	8151.3	7083.1	5911.0	4835.4	3832.0	2893.6	2102.6	1475.3	930.0	577.9	352.3	159.6
B-25.0	8943.4	7912.3	6747.4	5536.3	4357.3	3273.0	2339.8	1624.8	1024.4	617.6	370.2	168.6
B-20.0	9530.5	8662.7	7530.5	6193.5	4849.1	3629.4	2565.9	1754.3	1117.6	652.0	385.5	176.0
B-15.0	10112.9	9286.2	8172.9	6772.9	5290.9	3937.6	2762.3	1869.4	1188.0	686.3	397.5	181.8
B-10.0	10604.7	9761.6	8666.9	7239.4	5658.2	4188.2	2922.1	1955.6	1236.4	711.1	406.1	185.9
B-5.0	10990.0	10109.2	9013.9	7579.1	5926.6	4365.8	3030.7	2011.3	1266.0	726.1	411.2	188.2

Candela Tabulation - (Cont.)

V/H	β 30.0	β 35.0	β 40.0	β 45.0	β 50.0	β 55.0	β 60.0	β 65.0	β 70.0	β 75.0	β 80.0	β 85.0
B0.0	11257.1	10338.5	9230.3	7781.3	6079.2	4459.7	3081.8	2034.3	1276.7	731.2	412.7	188.8
B5.0	11143.2	10238.1	9132.0	7679.2	5986.6	4393.5	3041.9	2014.7	1264.2	725.1	410.9	188.1
B10.0	10903.3	10016.6	8901.2	7436.4	5770.3	4239.8	2942.7	1960.7	1233.0	709.0	405.4	185.5
B15.0	10545.4	9667.0	8521.1	7045.1	5444.1	4005.9	2788.8	1873.1	1183.2	683.4	396.5	181.3
B20.0	10066.2	9174.2	7982.6	6514.7	5022.1	3706.2	2594.7	1750.8	1112.0	648.5	384.2	175.3
B25.0	9416.0	8502.3	7280.4	5866.6	4529.4	3355.2	2369.5	1608.7	1019.5	613.5	368.6	167.8
B30.0	8575.3	7590.3	6403.9	5147.6	3987.7	2967.6	2131.7	1450.8	922.8	573.3	350.5	158.6
B35.0	7473.6	6499.1	5428.2	4394.6	3432.3	2568.4	1875.9	1283.9	832.0	528.5	329.6	147.9
B40.0	6182.0	5332.9	4479.1	3648.8	2873.3	2189.4	1593.5	1113.7	736.9	483.0	306.3	135.8
B45.0	4896.2	4249.3	3589.4	2944.9	2347.8	1824.7	1326.7	932.8	637.2	437.9	280.4	122.3
B50.0	3749.9	3278.9	2781.6	2304.3	1889.7	1440.4	1084.4	778.6	553.1	392.7	253.1	107.5
B55.0	2757.2	2421.1	2091.6	1783.4	1424.4	1128.3	851.0	636.6	474.6	346.2	223.0	92.3
B60.0	1954.4	1771.6	1532.2	1282.1	1061.6	843.5	669.0	520.0	404.7	298.1	189.9	77.3
B65.0	1339.9	1199.9	1054.8	896.8	751.8	628.8	517.4	424.4	336.9	248.5	154.9	61.5
B70.0	849.8	762.8	691.1	611.3	536.9	468.7	404.2	337.5	268.0	195.4	118.2	49.5
B75.0	529.3	498.1	463.6	426.8	387.9	346.2	300.4	250.1	196.5	139.7	82.4	38.9
B80.0	339.9	322.6	302.2	279.0	253.5	225.4	194.4	159.2	121.3	84.2	51.9	29.6
B85.0	159.2	150.2	139.9	128.1	114.7	100.5	86.4	69.3	55.0	42.1	30.9	23.6
B90.0	16.8	17.4	18.0	18.7	19.3	19.9	20.5	19.9	19.3	18.7	18.1	17.5
V/H	β 90.0											
B-90.0	16.9											
B-85.0	16.9											
B-80.0	16.9											
B-75.0	16.9											
B-70.0	16.9											
B-65.0	16.9											
B-60.0	16.9											
B-55.0	16.9											
B-50.0	16.9											
B-45.0	16.9											
B-40.0	16.9											
B-35.0	16.9											
B-30.0	16.9											
B-25.0	16.9											
B-20.0	16.9											
B-15.0	16.9											
B-10.0	16.9											
B-5.0	16.9											
B0.0	16.9											
B5.0	16.9											
B10.0	16.9											
B15.0	16.9											
B20.0	16.9											
B25.0	16.9											
B30.0	16.9											
B35.0	16.9											
B40.0	16.9											

Candela Tabulation - (Cont.)

V/H	β 90.0
B45.0	16.9
B50.0	16.9
B55.0	16.9
B60.0	16.9
B65.0	16.9
B70.0	16.9
B75.0	16.9
B80.0	16.9
B85.0	16.9
B90.0	16.9