



Anbotek Compliance Laboratory Ltd

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SHENZHEN TIANYA LIGHTING CO.,LTD

LumCAT: 100W-N

Luminaire:

Report No:

Voltage(V): 219.9900

Test No:

Current(A): 0.4700

LampCAT:

Power (W): 91.5500

Lamp flux(lm)

PF: 0.8860

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 10632.04

Lumens(lm)/Power(W): 116.13

Central intensity(cd): 3134.777

Maximum intensity(cd): 3265.393

Angle of maximum intensity: C=0.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=123.3

[C90/270]Total=123.5

Field angle(10%Imax): [C0/180]Total=171.0

[C90/270]Total=171.6

Maximum s/h(1/2): C0_180=1.23 C90_270=1.26

Maximum s/h(1/4): C0_180=1.39 C90_270=1.40

Up flux rate of LUM(%): 3.49%

Down flux rate of LUM(%): 96.51%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 69.262%

Equipment:
Temperature(°C): 25.0

Date: 2016-3-8
Humidity(%): 60.0%

Operator: Felix
Distance(m): 12.78

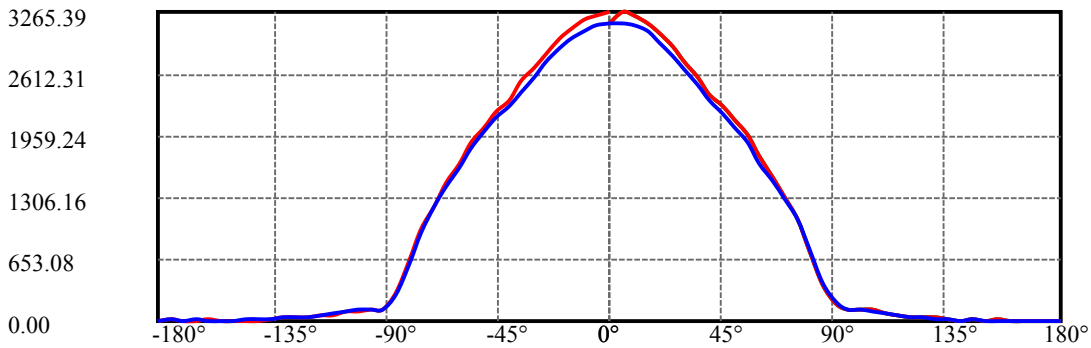
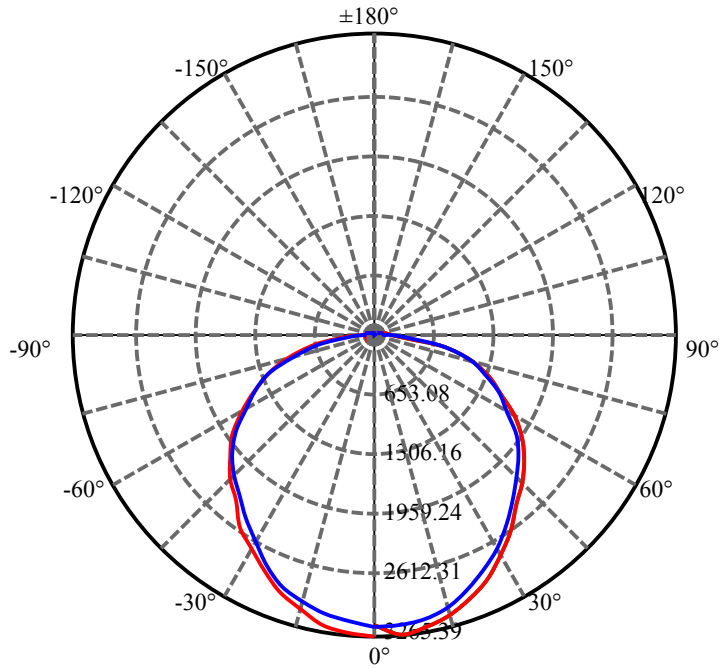
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	3169.472	.000	.000	.000%	.000%	.000%
5.0	3163.349	75.707	75.707	.712%	.712%	.712%
10.0	3115.388	224.610	300.317	2.113%	2.825%	2.825%
15.0	3039.876	365.126	665.443	3.434%	6.259%	6.259%
20.0	2927.628	491.806	1157.250	4.626%	10.885%	10.885%
25.0	2783.747	599.018	1756.268	5.634%	16.519%	16.519%
30.0	2637.825	686.104	2442.372	6.453%	22.972%	22.972%
35.0	2482.719	754.036	3196.408	7.092%	30.064%	30.064%
40.0	2329.654	802.908	3999.316	7.552%	37.616%	37.616%
45.0	2204.140	839.469	4838.785	7.896%	45.511%	45.511%
50.0	2043.932	858.385	5697.170	8.074%	53.585%	53.585%
55.0	1870.458	851.119	6548.289	8.005%	61.590%	61.590%
60.0	1658.207	815.641	7363.930	7.672%	69.262%	69.262%
65.0	1446.977	754.876	8118.806	7.100%	76.362%	76.362%
70.0	1242.890	681.092	8799.897	6.406%	82.768%	82.768%
75.0	1002.067	586.796	9386.693	5.519%	88.287%	88.287%
80.0	696.957	454.612	9841.305	4.276%	92.563%	92.563%
85.0	338.785	281.436	10122.740	2.647%	95.210%	95.210%
90.0	164.290	137.746	10260.490	1.296%	96.505%	96.505%
95.0	121.432	78.233	10338.720	.736%	97.241%	97.241%
100.0	112.248	63.496	10402.210	.597%	97.838%	97.838%
105.0	102.044	57.338	10459.550	.539%	98.378%	98.378%
110.0	83.676	48.544	10508.100	.457%	98.834%	98.834%
115.0	69.390	38.757	10546.850	.365%	99.199%	99.199%
120.0	52.042	29.520	10576.380	.278%	99.476%	99.476%
125.0	37.756	20.757	10597.130	.195%	99.672%	99.672%
130.0	24.490	13.534	10610.670	.127%	99.799%	99.799%
135.0	17.347	8.454	10619.120	.080%	99.878%	99.878%
140.0	12.245	5.479	10624.600	.052%	99.930%	99.930%
145.0	6.123	3.065	10627.660	.029%	99.959%	99.959%
150.0	.000	.902	10628.570	.008%	99.967%	99.967%
155.0	7.143	.904	10629.470	.009%	99.976%	99.976%
160.0	5.102	1.338	10630.810	.013%	99.988%	99.988%
165.0	3.061	.715	10631.520	.007%	99.995%	99.995%
170.0	1.020	.242	10631.760	.002%	99.997%	99.997%
175.0	4.082	.201	10631.970	.002%	99.999%	99.999%
180.0	2.041	.079	10632.040	.001%	100.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	2442.37	22.97%
0-40	3999.32	37.62%
0-60	7363.93	69.26%
0-90	10260.49	96.51%
0-120	10576.38	99.48%
0-180	10632.04	100.00%
60-90	3712.20	34.92%
90-120	453.63	4.27%
90-130	487.93	4.59%
90-150	505.83	4.76%
90-180	509.22	4.79%
0-67.84	8505.64	80.00%

ZONAL LUMEN SUMMARY

0-10	300.32
10-20	856.93
20-30	1285.12
30-40	1556.94
40-50	1697.85
50-60	1666.76
60-70	1435.97
70-80	1041.41
80-90	419.18
90-100	141.73
100-110	105.88
110-120	68.28
120-130	34.29
130-140	13.93
140-150	3.97
150-160	2.24
160-170	0.96
170-180	0.20



C0(Max): ———

C0/C180: ———

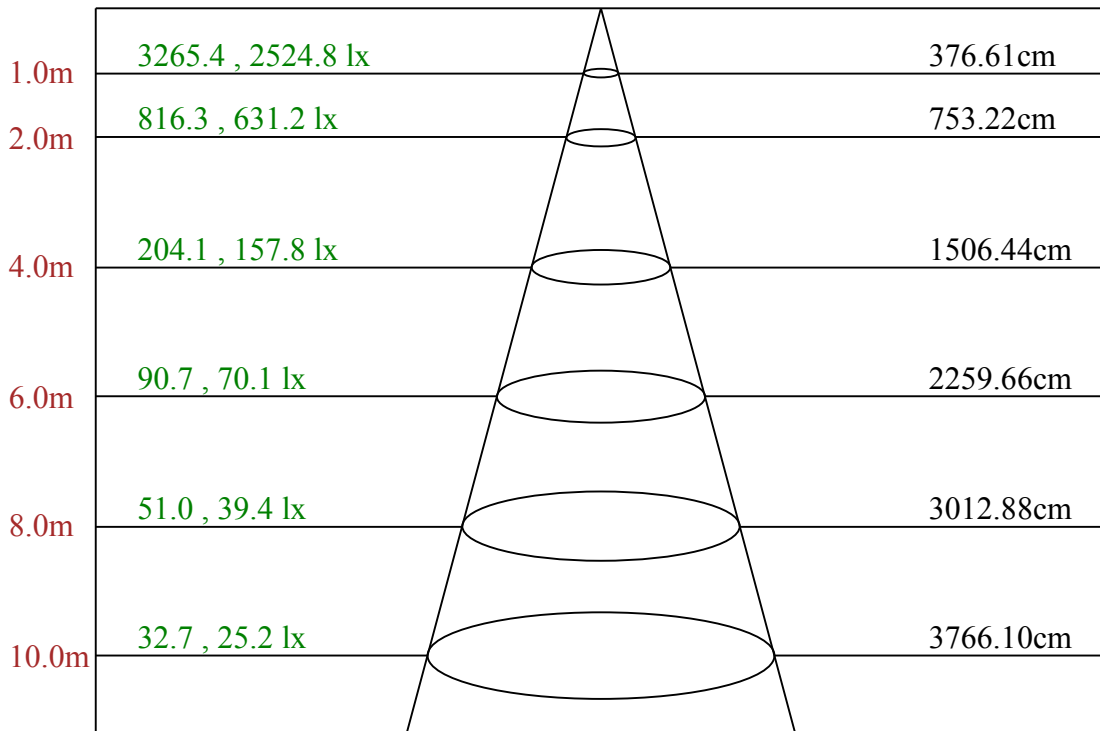
C90/C270: ———

Field angle(10%Imax):C0/180Left:89.8 Right:81.3

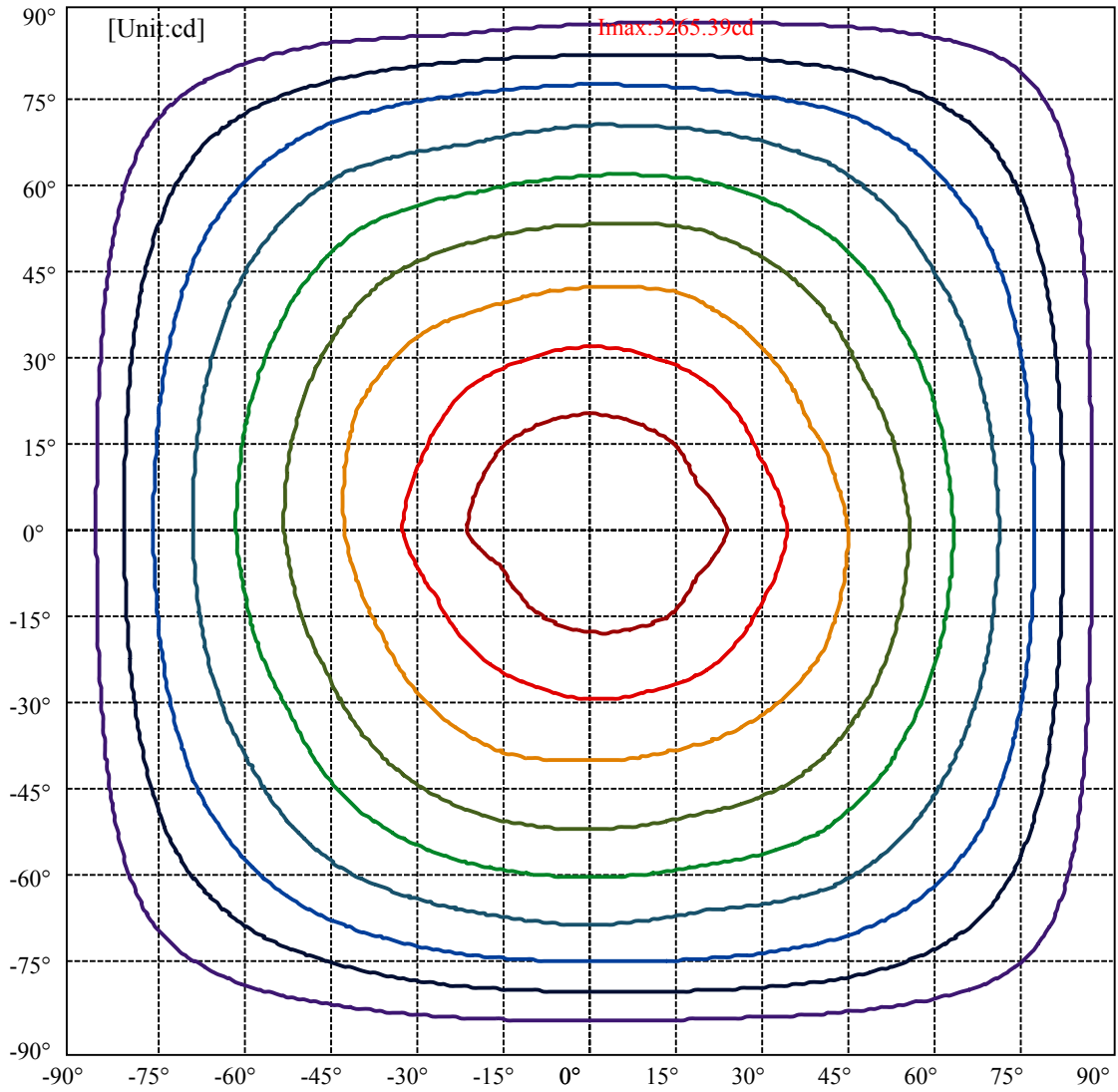
:C90/270Left:89.4 Right:82.2










Beam Angle(50%Imax):C0/180Left:65.8 Right:57.5

:C90/270Left:66.0 Right:57.5



Max , Ave Beam angle of C0plane124.01

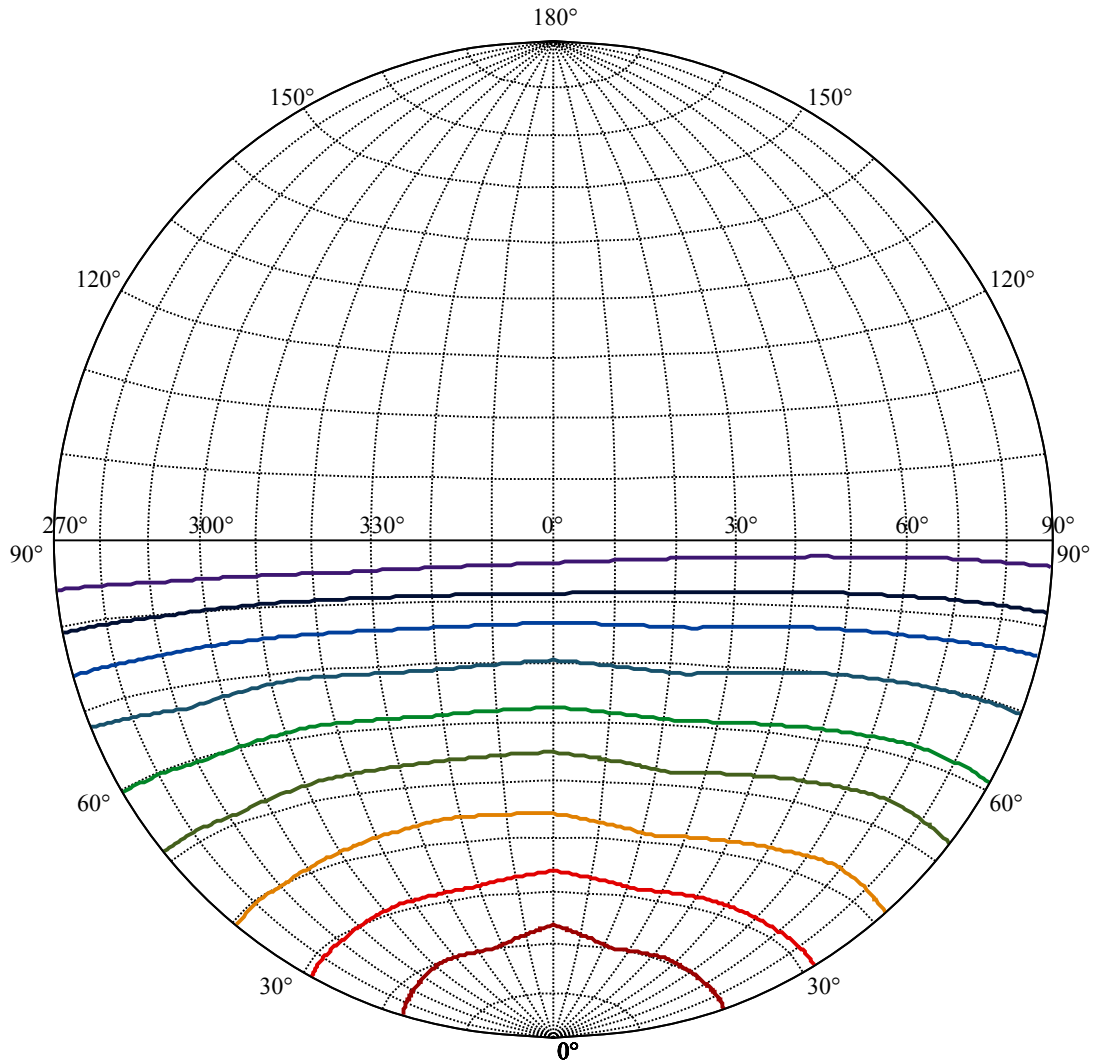


(10%I _{max}) 326.539	
(20%I _{max}) 653.078	
(30%I _{max}) 979.618	
(40%I _{max}) 1306.16	
(50%I _{max}) 1632.7	
(60%I _{max}) 1959.24	
(70%I _{max}) 2285.77	
(80%I _{max}) 2612.31	
(90%I _{max}) 2938.85	

Equipment:
Temperature(°C): 25.0

Date: 2016-3-8
Humidity(%): 60.0%

Operator: Felix
Distance(m): 12.78



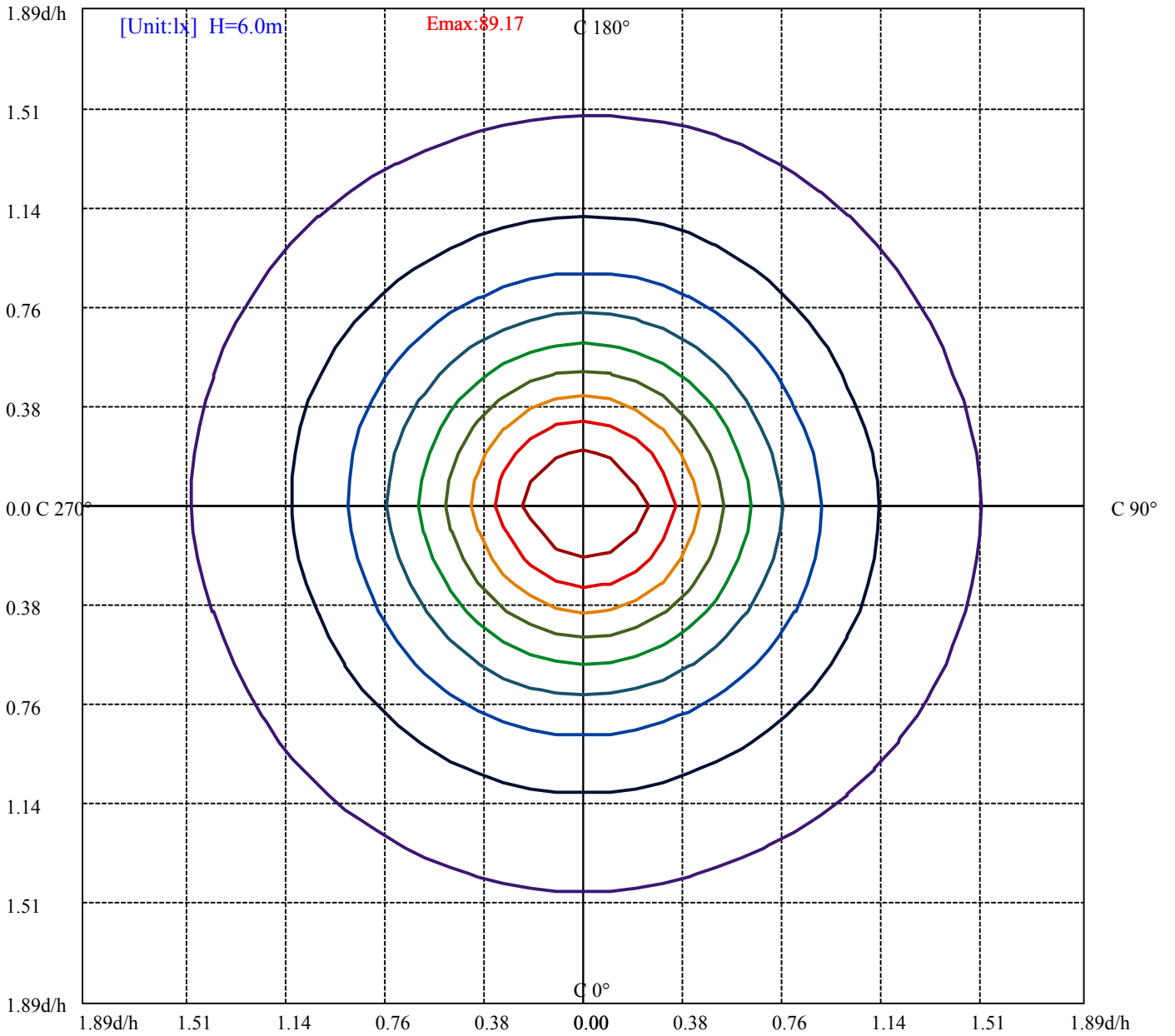
House

[Unit:cd]

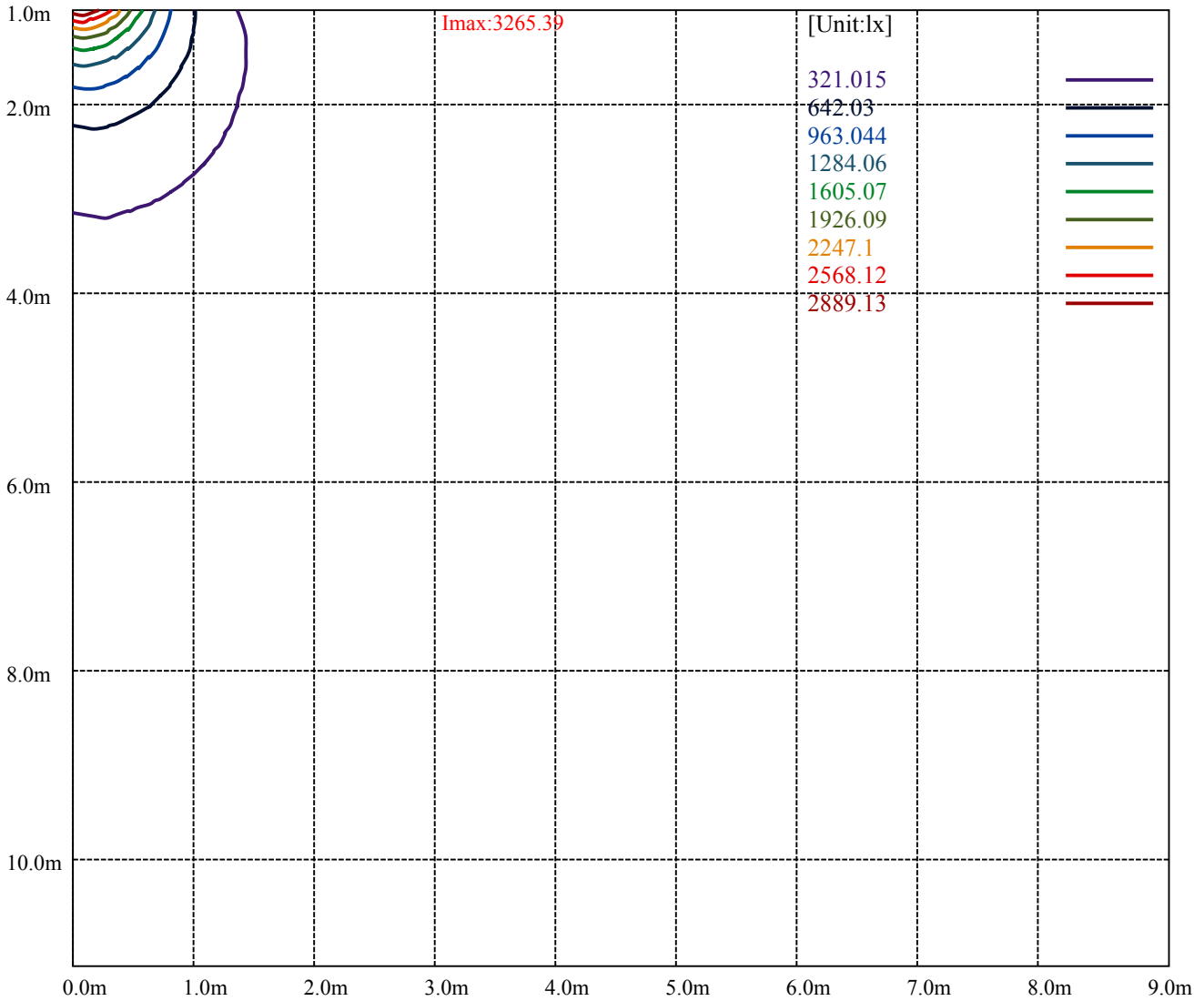
Road

I_{max}:3265.39

(10%I _{max}) 326.539	—
(20%I _{max}) 653.078	—
(30%I _{max}) 979.618	—
(40%I _{max}) 1306.16	—
(50%I _{max}) 1632.7	—
(60%I _{max}) 1959.24	—
(70%I _{max}) 2285.77	—
(80%I _{max}) 2612.31	—
(90%I _{max}) 2938.85	—



(10%Emax) 8.917056	
(20%Emax) 17.83411	
(30%Emax) 26.75117	
(40%Emax) 35.66833	
(50%Emax) 44.58528	
(60%Emax) 53.50222	
(70%Emax) 62.41945	
(80%Emax) 71.3364	
(90%Emax) 80.25361	



Luminance Table

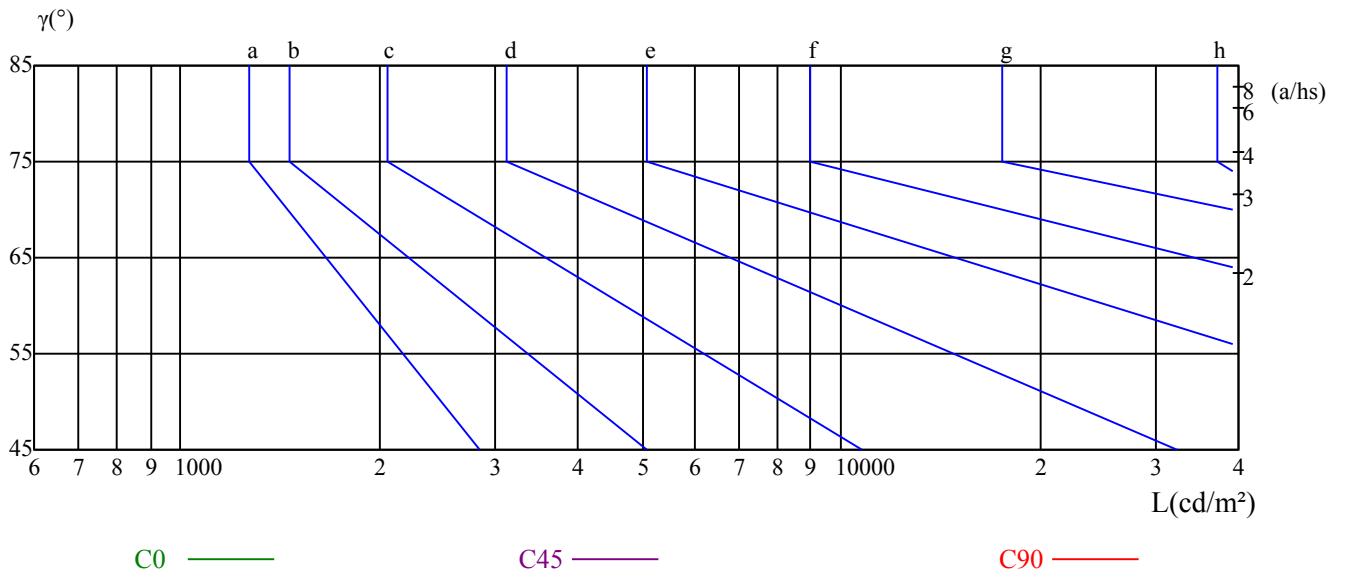
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

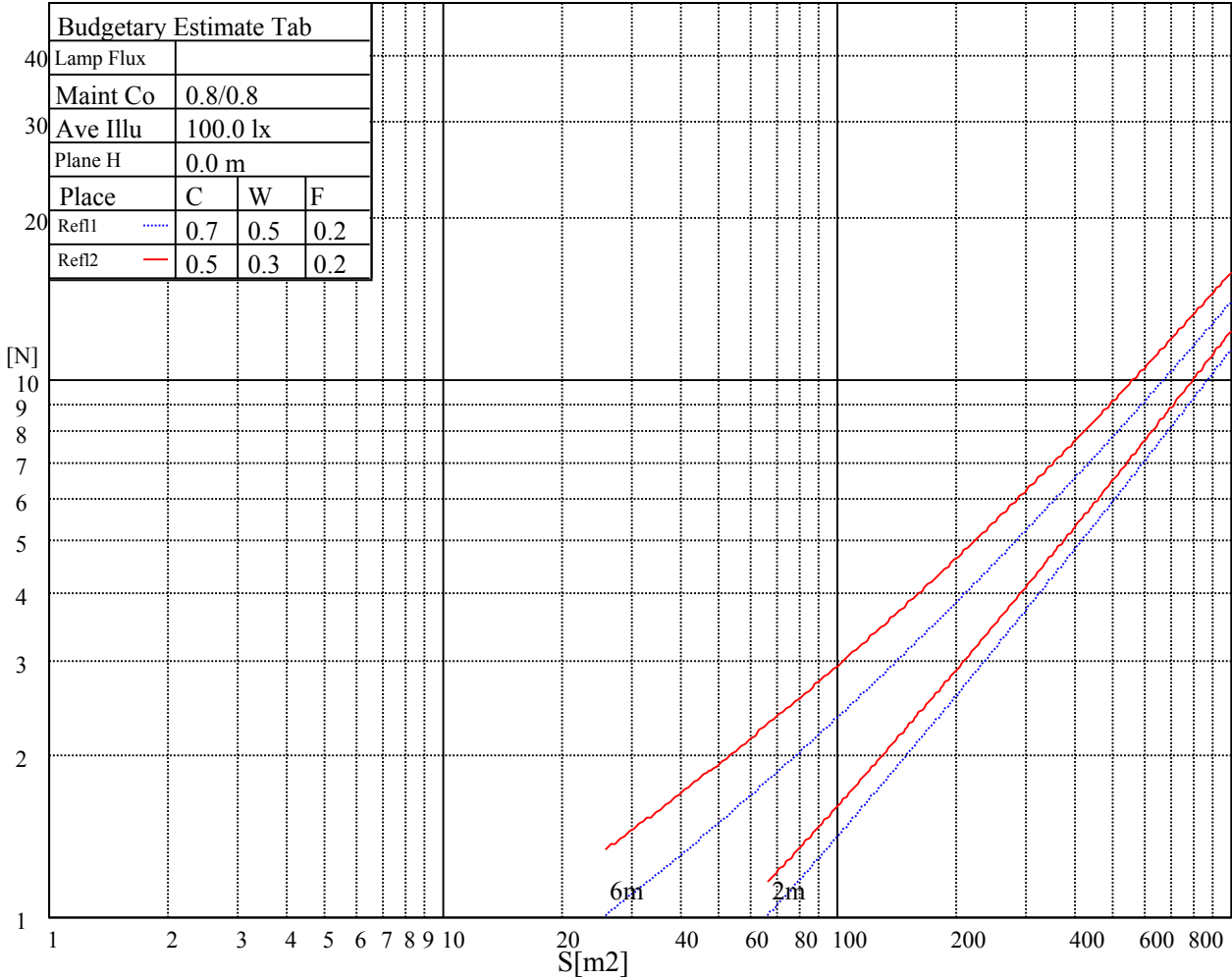
L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

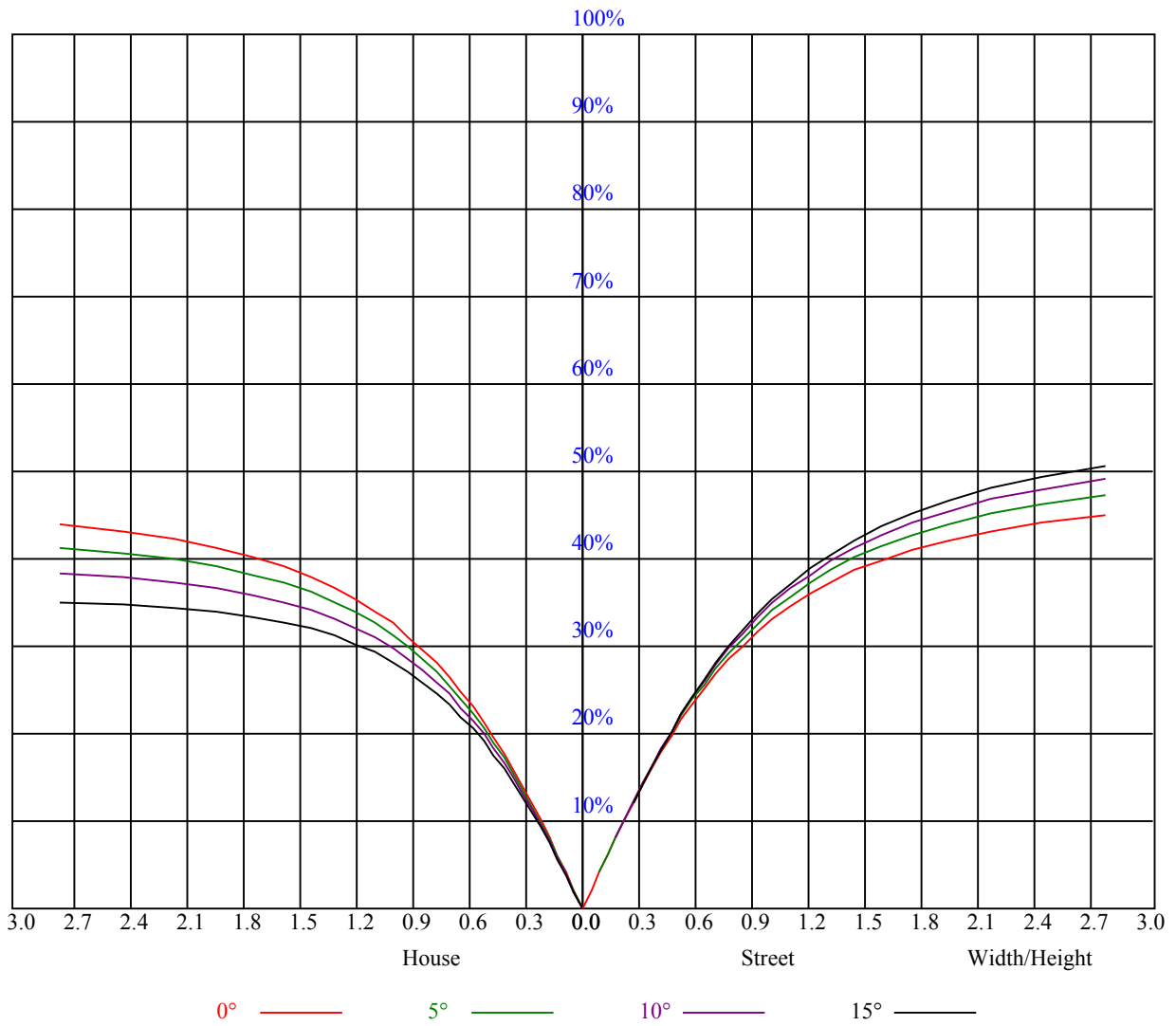
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.97
1	1.01	0.96	0.92	0.98	0.94	0.90	0.93	0.90	0.86	0.89	0.86	0.83	0.85	0.82	0.80	0.77
2	0.87	0.79	0.73	0.85	0.78	0.72	0.80	0.75	0.70	0.76	0.72	0.67	0.73	0.69	0.65	0.63
3	0.75	0.67	0.60	0.74	0.65	0.59	0.70	0.63	0.57	0.67	0.61	0.56	0.64	0.59	0.54	0.52
4	0.66	0.57	0.50	0.65	0.56	0.49	0.62	0.54	0.48	0.59	0.52	0.47	0.56	0.51	0.46	0.44
5	0.59	0.50	0.43	0.58	0.49	0.42	0.55	0.47	0.41	0.53	0.46	0.41	0.50	0.45	0.40	0.37
6	0.53	0.44	0.37	0.52	0.43	0.37	0.50	0.42	0.36	0.48	0.41	0.35	0.46	0.40	0.35	0.33
7	0.48	0.39	0.32	0.47	0.38	0.32	0.45	0.37	0.32	0.43	0.36	0.31	0.42	0.35	0.31	0.29
8	0.44	0.35	0.29	0.43	0.34	0.29	0.41	0.34	0.28	0.40	0.33	0.28	0.38	0.32	0.27	0.25
9	0.40	0.31	0.26	0.39	0.31	0.26	0.38	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23
10	0.37	0.29	0.23	0.36	0.28	0.23	0.35	0.28	0.23	0.34	0.27	0.23	0.33	0.27	0.22	0.21



SHENZHEN TIANYA LIGHTING CO.,LTD 100W-N

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3134.78	3265.39	3216.41	3151.10	3036.82	2906.20	2742.93	2579.66	2400.06
22.5	3151.10	3151.10	3085.80	3053.14	2938.85	2808.24	2661.30	2498.03	2318.43
45.0	3151.10	3151.10	3102.12	3069.47	2955.18	2791.91	2677.62	2514.35	2351.08
67.5	3151.10	3151.10	3102.12	3036.82	2938.85	2791.91	2661.30	2498.03	2367.41
90.0	3151.10	3151.10	3118.45	3053.14	2938.85	2791.91	2661.30	2498.03	2334.76
112.5	3167.43	3151.10	3102.12	3053.14	2938.85	2808.24	2644.97	2498.03	2318.43
135.0	3183.76	3151.10	3134.78	3036.82	2955.18	2791.91	2661.30	2514.35	2351.08
157.5	3200.09	3183.76	3151.10	3053.14	2955.18	2791.91	2644.97	2498.03	2367.41
180.0	3265.39	3232.74	3183.76	3085.80	2971.51	2824.56	2677.62	2530.68	2334.76
202.5	3151.10	3134.78	3069.47	2971.51	2840.89	2726.60	2563.33	2400.06	2269.45
225.0	3151.10	3134.78	3069.47	2971.51	2857.22	2710.28	2563.33	2400.06	2285.78
247.5	3151.10	3134.78	3069.47	3004.16	2840.89	2710.28	2563.33	2416.39	2302.10
270.0	3151.10	3118.45	3069.47	2987.83	2889.87	2742.93	2579.66	2416.39	2269.45
292.5	3167.43	3134.78	3102.12	3004.16	2906.20	2742.93	2595.99	2449.04	2285.78
315.0	3183.76	3167.43	3118.45	3036.82	2938.85	2791.91	2644.97	2498.03	2334.76
337.5	3200.09	3200.09	3151.10	3069.47	2938.85	2808.24	2661.30	2514.35	2383.74
360.0	3134.78	3265.39	3216.41	3151.10	3036.82	2906.20	2742.93	2579.66	2400.06
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	2269.45	2122.51	1959.24	1746.99	1518.41	1322.48	1077.58	751.04	375.52
22.5	2187.81	2024.54	1877.60	1665.35	1453.10	1240.85	1028.60	767.37	424.50
45.0	2204.14	2057.20	1910.26	1698.00	1485.75	1306.16	1077.58	800.02	457.15
67.5	2236.79	2089.85	1926.58	1714.33	1502.08	1306.16	1061.25	800.02	440.83
90.0	2187.81	2040.87	1877.60	1665.35	1485.75	1289.83	1077.58	767.37	408.17
112.5	2187.81	2040.87	1861.27	1632.70	1420.45	1224.52	1028.60	751.04	342.87
135.0	2253.12	2057.20	1910.26	1698.00	1469.43	1273.50	1028.60	718.39	342.87
157.5	2269.45	2073.52	1877.60	1665.35	1453.10	1240.85	979.62	702.06	310.21
180.0	2220.47	2040.87	1877.60	1665.35	1453.10	1224.52	979.62	653.08	310.21
202.5	2122.51	1959.24	1763.31	1534.73	1355.14	1159.21	914.31	587.77	261.23
225.0	2155.16	1991.89	1812.29	1600.04	1404.12	1175.54	914.31	571.44	261.23
247.5	2155.16	2024.54	1812.29	1616.37	1387.79	1191.87	930.64	604.10	277.56
270.0	2155.16	2008.22	1828.62	1616.37	1420.45	1224.52	930.64	604.10	277.56
292.5	2171.49	2008.22	1812.29	1616.37	1371.47	1191.87	963.29	636.75	277.56
315.0	2220.47	2073.52	1893.93	1698.00	1485.75	1257.18	1012.27	702.06	310.21
337.5	2269.45	2089.85	1926.58	1698.00	1485.75	1257.18	1028.60	734.71	342.87
360.0	2269.45	2122.51	1959.24	1746.99	1518.41	1322.48	1077.58	751.04	375.52
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	179.60	130.62	114.29	114.29	81.63	65.31	48.98	48.98	32.65
22.5	195.92	130.62	114.29	97.96	97.96	81.63	65.31	48.98	16.33
45.0	195.92	130.62	114.29	97.96	81.63	81.63	48.98	32.65	16.33
67.5	212.25	130.62	130.62	130.62	81.63	81.63	48.98	48.98	32.65
90.0	195.92	114.29	114.29	97.96	81.63	65.31	48.98	48.98	16.33
112.5	179.60	130.62	114.29	97.96	81.63	81.63	48.98	32.65	32.65
135.0	179.60	130.62	114.29	114.29	81.63	65.31	48.98	32.65	48.98
157.5	163.27	114.29	114.29	97.96	97.96	65.31	48.98	32.65	16.33
180.0	130.62	114.29	97.96	97.96	65.31	65.31	48.98	48.98	32.65
202.5	130.62	97.96	97.96	97.96	81.63	65.31	48.98	32.65	16.33
225.0	130.62	114.29	114.29	97.96	81.63	48.98	65.31	32.65	32.65
247.5	146.94	130.62	114.29	97.96	81.63	65.31	48.98	32.65	16.33
270.0	130.62	114.29	114.29	97.96	81.63	65.31	48.98	32.65	32.65
292.5	130.62	114.29	114.29	81.63	81.63	65.31	48.98	32.65	16.33
315.0	163.27	114.29	97.96	97.96	81.63	81.63	65.31	32.65	16.33
337.5	163.27	130.62	114.29	114.29	97.96	65.31	48.98	32.65	16.33
360.0	179.60	130.62	114.29	114.29	81.63	65.31	48.98	48.98	32.65

SHENZHEN TIANYA LIGHTING CO.,LTD 100W-N

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	16.33	0.00	16.33	0.00	16.33	0.00	0.00	0.00	0.00
22.5	16.33	16.33	0.00	0.00	16.33	16.33	0.00	0.00	0.00
45.0	16.33	16.33	0.00	0.00	16.33	0.00	0.00	0.00	0.00
67.5	16.33	16.33	0.00	0.00	16.33	16.33	0.00	0.00	0.00
90.0	16.33	0.00	16.33	0.00	0.00	0.00	0.00	0.00	0.00
112.5	16.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	16.33	16.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	16.33	16.33	0.00	0.00	0.00	0.00	0.00	0.00	16.33
180.0	16.33	0.00	0.00	0.00	0.00	16.33	0.00	0.00	16.33
202.5	32.65	16.33	0.00	0.00	16.33	16.33	16.33	0.00	0.00
225.0	16.33	16.33	16.33	0.00	16.33	0.00	0.00	0.00	0.00
247.5	16.33	16.33	16.33	0.00	16.33	16.33	0.00	0.00	0.00
270.0	16.33	16.33	16.33	0.00	0.00	0.00	16.33	0.00	16.33
292.5	16.33	16.33	0.00	0.00	0.00	0.00	16.33	0.00	0.00
315.0	16.33	16.33	16.33	0.00	0.00	0.00	0.00	0.00	0.00
337.5	16.33	16.33	0.00	0.00	0.00	0.00	0.00	16.33	16.33
360.0	16.33	0.00	16.33	0.00	16.33	0.00	0.00	0.00	0.00
C/γ(°)	180.0								
0.0	0.00								
22.5	0.00								
45.0	16.33								
67.5	0.00								
90.0	0.00								
112.5	0.00								
135.0	0.00								
157.5	0.00								
180.0	0.00								
202.5	0.00								
225.0	16.33								
247.5	0.00								
270.0	0.00								
292.5	0.00								
315.0	0.00								
337.5	0.00								
360.0	0.00								