

浙大三色

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ROLED

灯具名称: 水下灯

灯具描述: U3153A-27-12DC(15-OL-27WN-AA, P1)

报告编号:

电压(V): 12.1000

测试编号: 20210326001

电流(A): 2.3030

光源规格型号: OL

功率(W): 27.9000

每个光源光通量(lm)

功率因数: 1.0120

光源数量: 27

镇流器型号:

发光面长度(mm): 977

发光面宽度(mm): 33

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 2806.03

灯具效能(lm/w): 100.57

中心光强(cd): 20442.900

最大光强(cd): 21018.430

最大光强角度: C=90.0 γ =2.0

半峰边角(50%Imax): [C0/180]Total=15.5

[C90/270]Total=15.3

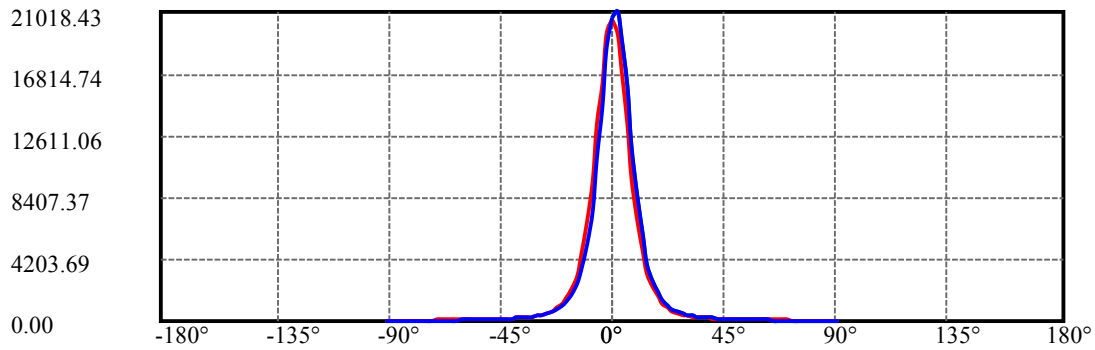
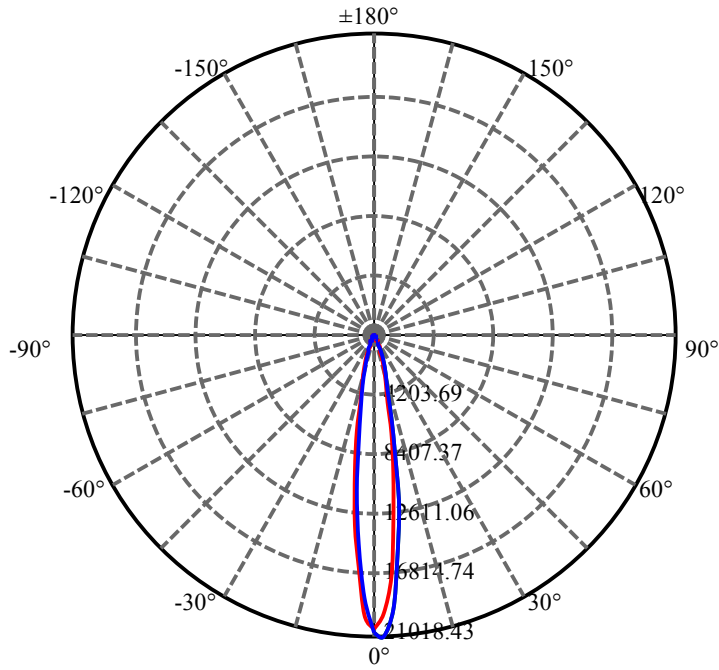
光束扩散角(10%Imax): [C0/180]Total=33.4

[C90/270]Total=33.1

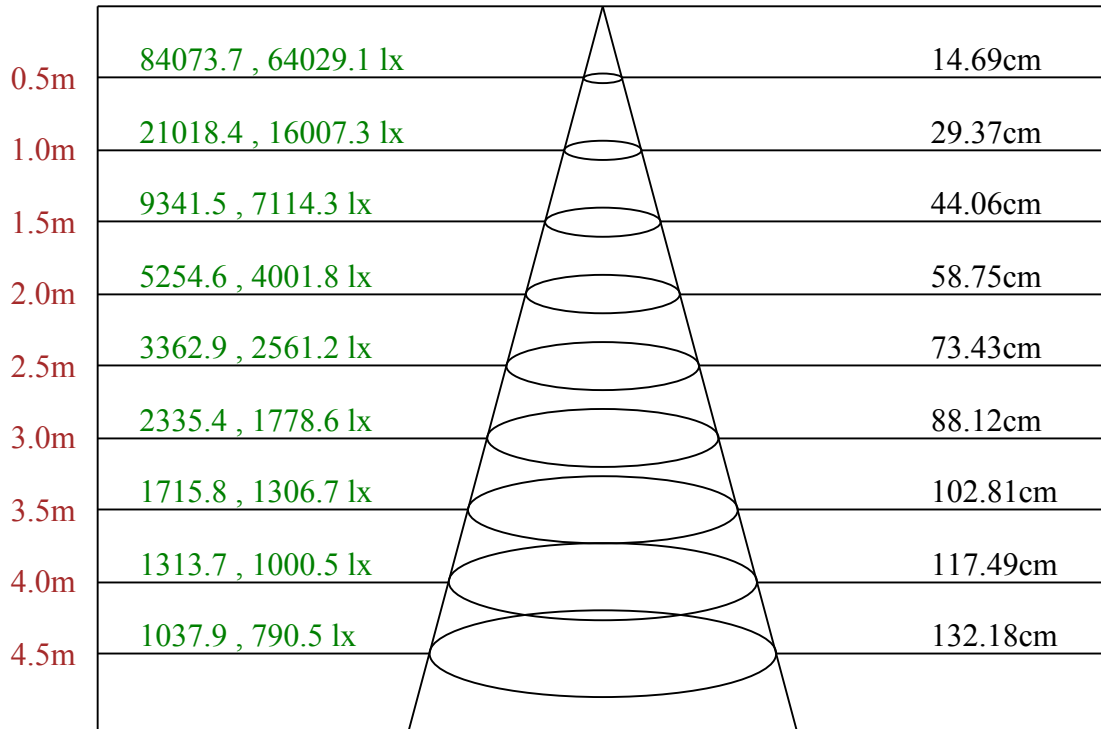
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/26
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

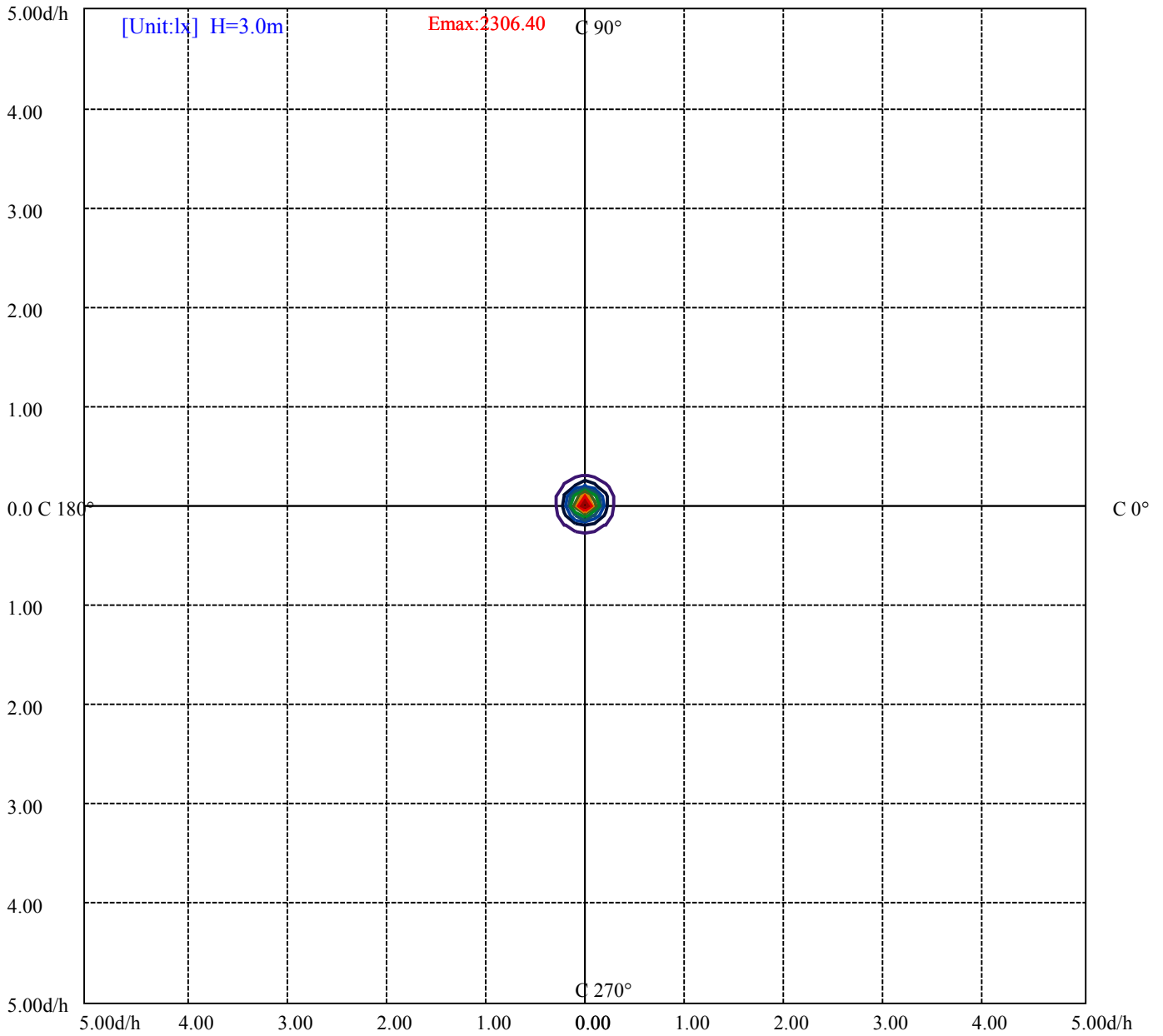


C90(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C90面光束角16.70

ROLED 水下灯
平面等照度曲线



- (10%Emax) 230.6389
- (20%Emax) 461.2778
- (30%Emax) 691.9167
- (40%Emax) 922.5555
- (50%Emax) 1153.2
- (60%Emax) 1383.833
- (70%Emax) 1614.478
- (80%Emax) 1845.111
- (90%Emax) 2075.756

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ROLED 水下灯

灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

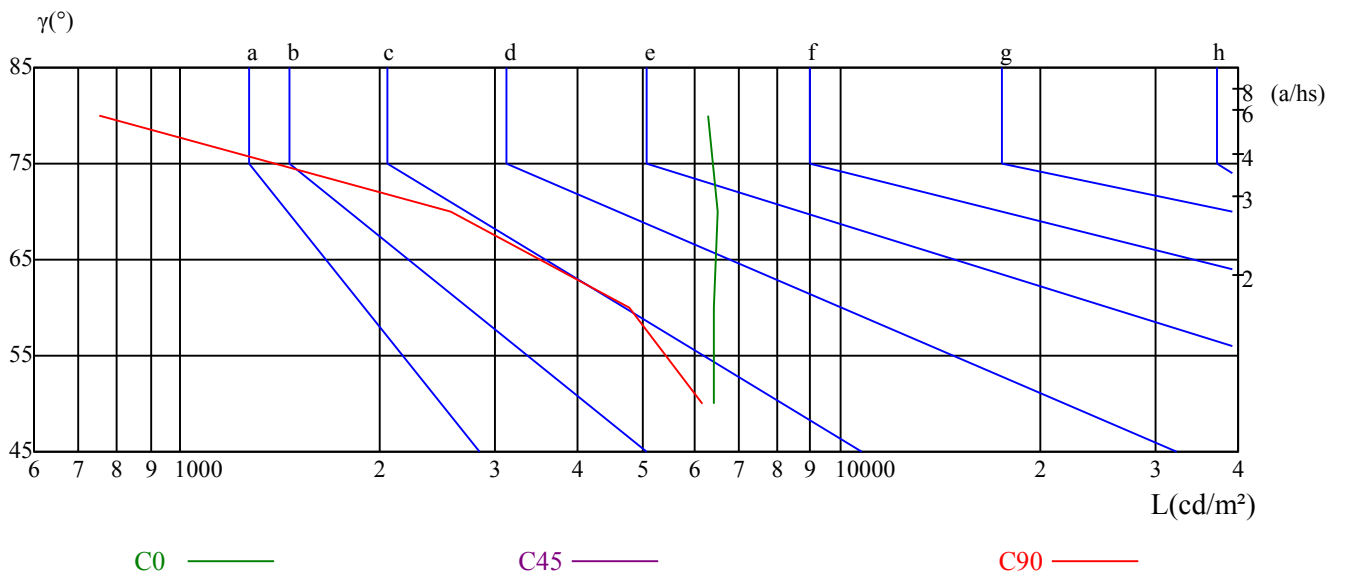
γ	45	50	55	60	65	70	75	80	85
C0	0	6443	0	6426	0	6528	0	6278	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6154	0	4779	0	2575	0	754	0

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

眩光等级表

眩光等级	质量等级	使用照度(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

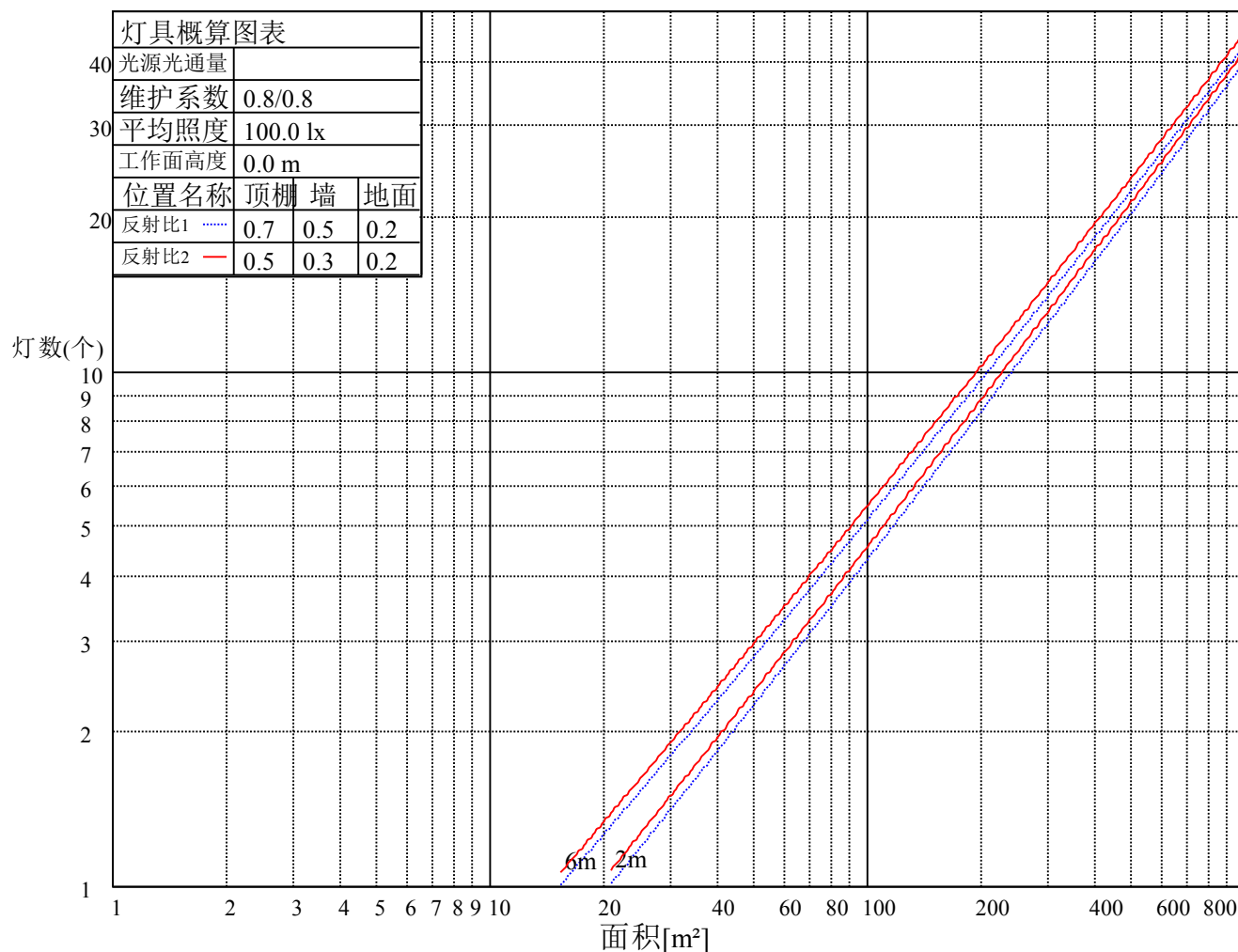
亮度限制曲线



参照UGR的照射评估											
天花板反射率	70	70	50	50	30	70	70	50	50	30	
墙壁反射率	50	30	50	30	30	50	30	50	30	30	
地板反射率	20	20	20	20	20	20	20	20	20	20	
空间尺寸	Viewed crosswise					Viewed endwise					
X	Y										
2H	2H	9.55	10.60	9.92	10.91	11.23	10.89	11.94	11.26	12.25	12.56
	3H	10.17	11.10	10.56	11.43	11.80	12.88	13.80	13.26	14.14	14.50
	4H	10.19	11.05	10.59	11.40	11.79	13.60	14.46	14.01	14.81	15.20
	6H	10.13	10.91	10.55	11.29	11.68	14.12	14.91	14.54	15.28	15.68
	8H	10.09	10.83	10.52	11.22	11.63	14.30	15.04	14.74	15.43	15.84
	12H	10.05	10.76	10.49	11.14	11.57	14.53	15.24	14.97	15.63	16.06
4H	2H	10.19	11.04	10.59	11.40	11.79	11.25	12.11	11.66	12.46	12.85
	3H	10.87	11.58	11.29	11.99	12.39	13.46	14.16	13.87	14.57	14.98
	4H	10.89	11.52	11.33	11.94	12.39	14.25	14.88	14.68	15.30	15.75
	6H	10.84	11.37	11.30	11.82	12.30	14.75	15.29	15.22	15.74	16.21
	8H	10.79	11.29	11.26	11.74	12.21	14.95	15.45	15.43	15.90	16.38
	12H	10.75	11.18	11.24	11.67	12.15	15.19	15.62	15.68	16.11	16.59
8H	4H	11.12	11.62	11.60	12.07	12.55	14.19	14.69	14.67	15.14	15.62
	6H	11.07	11.47	11.58	11.97	12.46	14.72	15.12	15.23	15.62	16.11
	8H	11.03	11.38	11.56	11.90	12.40	14.96	15.31	15.49	15.83	16.33
	12H	11.72	12.03	12.25	12.53	13.11	15.78	16.08	16.30	16.58	17.16
12H	4H	11.11	11.54	11.60	12.03	12.50	14.14	14.57	14.63	15.06	15.54
	6H	11.38	11.41	11.60	11.89	12.43	14.98	15.01	15.20	15.49	16.03
	8H	11.04	11.34	11.56	11.84	12.42	14.92	15.22	15.44	15.72	16.30
对应照射距离，改变观察者位置S											
S = 1.0H	0.4/-0.7					0.2/-0.6					
S = 1.5H	0.9/-1.5					0.9/-0.7					
S = 2.0H	3.0/-2.4					0.9/-0.7					
标准表格	BK3					BK3					
更正系数	-2.1					0.1					

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灯具的概算曲线



ROLED 水下灯

灯具的利用系数表

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95
2	1.05	1.02	0.99	1.04	1.01	0.98	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.90
3	1.00	0.96	0.93	0.99	0.95	0.92	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.88	0.86
4	0.95	0.91	0.87	0.94	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.89	0.86	0.84	0.83
5	0.92	0.87	0.83	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.82	0.86	0.83	0.81	0.80
6	0.88	0.83	0.80	0.87	0.83	0.80	0.86	0.82	0.79	0.85	0.81	0.79	0.84	0.81	0.78	0.77
7	0.85	0.80	0.77	0.85	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.75
8	0.82	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.80	0.76	0.73	0.80	0.75	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.71
10	0.78	0.74	0.71	0.78	0.73	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.69

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光强数据表(cd)

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	20442.90	19460.66	16912.97	13283.28	9799.39	6975.45	4750.06	3322.74	2335.89
30.0	20711.48	20335.46	18209.83	14841.05	11341.82	8019.08	5532.78	3944.31	2688.89
60.0	20803.56	20619.39	18432.37	15194.04	11341.82	8124.21	5573.45	3777.02	2673.54
90.0	20688.46	21018.43	19230.44	15946.07	12024.78	8579.26	5839.73	3951.99	2791.71
120.0	20826.58	20788.22	18616.54	15292.27	11297.31	7837.98	5304.10	3665.76	2565.34
150.0	20734.50	20604.05	18547.48	15101.96	11234.38	7781.19	5371.63	3921.29	2532.34
180.0	20442.90	19506.70	16230.00	13308.60	9647.45	6778.23	4609.63	3126.29	2220.02
210.0	20711.48	19222.77	15178.70	12342.48	8844.78	6007.79	4167.62	2876.13	2049.66
240.0	20803.56	18969.53	15815.62	11886.65	8464.16	5885.77	3975.01	2798.62	1982.13
270.0	20688.46	18363.31	14609.30	10919.76	7612.37	5244.25	3553.72	2557.66	1811.01
300.0	20826.58	18908.14	15401.24	11595.05	8049.77	5609.52	3905.94	2787.11	1992.11
330.0	20734.50	18923.49	15279.99	11676.39	8292.27	5785.25	4017.98	2844.66	2056.57
360.0	20442.90	19460.66	16912.97	13283.28	9799.39	6975.45	4750.06	3322.74	2335.89
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1686.69	1230.87	924.69	701.38	553.28	444.31	388.29	316.39	272.80
30.0	1909.23	1375.91	1025.98	781.96	611.60	489.59	406.71	344.40	297.59
60.0	1901.56	1370.92	1010.71	784.34	613.52	497.26	410.24	345.63	296.90
90.0	1985.20	1438.83	1053.61	805.74	628.48	506.47	417.45	355.30	304.26
120.0	1867.03	1346.44	1001.35	771.67	610.45	489.82	404.87	344.32	295.75
150.0	1836.33	1322.96	976.87	752.80	598.55	479.61	400.57	340.48	294.83
180.0	1516.80	1151.83	857.08	669.23	527.57	431.96	360.74	306.57	265.51
210.0	1483.72	1089.06	817.72	646.59	516.60	425.82	358.21	307.18	268.74
240.0	1438.83	1061.28	815.72	630.02	504.93	414.38	352.30	302.88	263.90
270.0	1333.70	991.99	756.17	598.55	482.45	397.35	337.19	293.52	256.15
300.0	1416.58	1069.72	814.19	629.25	503.40	417.45	349.92	303.27	263.36
330.0	1494.16	1117.99	841.73	654.19	518.59	426.35	358.06	306.26	267.51
360.0	1686.69	1230.87	924.69	701.38	553.28	444.31	388.29	316.39	272.80
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	240.88	215.02	193.15	175.81	162.61	150.79	141.35	133.52	126.31
30.0	259.68	229.52	206.58	187.55	172.28	159.69	149.87	140.97	133.45
60.0	260.37	229.60	205.12	186.47	170.20	156.39	144.88	134.67	124.62
90.0	264.67	234.51	207.73	187.01	169.13	154.09	139.97	127.54	116.56
120.0	257.84	229.22	204.89	185.63	170.36	156.16	145.11	134.21	124.78
150.0	257.99	227.99	202.74	181.41	164.60	150.33	139.43	129.99	123.24
180.0	235.43	210.03	189.77	174.04	160.54	149.48	140.28	132.76	126.00
210.0	237.81	212.87	192.38	177.34	164.45	153.32	144.88	136.98	129.99
240.0	234.13	209.72	189.23	172.89	160.15	148.26	138.43	129.38	120.32
270.0	229.45	205.81	185.09	167.06	153.24	139.89	128.46	118.18	107.74
300.0	232.28	208.19	189.08	172.43	159.08	147.80	137.44	128.54	119.48
330.0	236.74	213.10	192.00	177.42	164.14	153.24	144.19	136.59	130.07
360.0	240.88	215.02	193.15	175.81	162.61	150.79	141.35	133.52	126.31
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	119.86	114.19	108.89	103.60	98.53	92.70	86.02	79.65	71.98
30.0	126.92	120.63	114.65	108.66	102.60	95.31	87.71	79.35	70.14
60.0	115.11	106.28	97.23	88.79	78.50	67.15	54.25	44.51	35.38
90.0	106.51	96.92	86.79	77.04	66.07	55.56	46.50	37.45	28.39
120.0	115.34	105.90	97.15	88.48	78.35	66.68	54.41	44.05	35.45
150.0	117.64	112.50	107.74	103.29	97.38	90.01	84.33	75.36	66.68
180.0	119.71	114.03	108.66	103.06	96.84	90.70	84.03	77.97	71.75
210.0	123.62	117.79	111.65	105.82	98.91	91.16	83.41	74.67	65.07
240.0	111.04	102.37	93.47	84.49	74.21	61.31	48.96	39.75	30.31
270.0	98.61	89.55	78.73	67.76	55.63	46.89	37.83	28.78	19.95
300.0	110.89	102.21	93.62	85.03	73.98	60.32	47.42	38.83	29.16
330.0	123.85	118.18	111.81	105.90	98.84	90.93	83.18	74.44	64.77
360.0	119.86	114.19	108.89	103.60	98.53	92.70	86.02	79.65	71.98

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光强数据表(cd)

附页 第 10页 共10页

C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	64.92	57.48	50.03	42.28	35.15	28.70	20.57	12.12	4.14
30.0	60.39	50.19	35.61	22.71	13.81	6.52	4.07	2.38	1.38
60.0	26.32	17.42	9.59	7.06	4.76	3.30	2.92	2.30	1.23
90.0	19.49	12.66	9.13	6.83	4.22	3.53	3.07	2.30	1.38
120.0	26.17	17.50	9.67	6.98	4.68	3.30	2.92	2.23	1.30
150.0	58.24	47.19	34.61	22.02	13.28	6.37	3.91	2.38	1.38
180.0	64.00	55.56	48.73	41.21	33.69	26.63	18.42	10.21	3.53
210.0	55.71	43.05	28.55	18.11	9.52	5.14	2.76	1.84	0.69
240.0	21.33	12.35	7.90	5.53	3.53	3.07	2.46	1.46	0.46
270.0	12.74	9.21	6.14	3.76	3.38	2.92	2.15	1.23	0.23
300.0	20.57	11.82	7.67	5.14	3.38	2.99	2.23	1.30	0.38
330.0	55.25	41.98	26.47	16.35	8.21	4.68	2.61	1.76	0.61
360.0	64.92	57.48	50.03	42.28	35.15	28.70	20.57	12.12	4.14

C/γ(°)	90.0
0.0	0.23
30.0	0.31
60.0	0.38
90.0	0.46
120.0	0.31
150.0	0.31
180.0	0.31
210.0	0.08
240.0	0.00
270.0	0.00
300.0	0.08
330.0	0.08
360.0	0.23