



Bell-Southcn Testing Laboratory(Shenzhen)

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Address:No.115,1st Floor,A5 Building,Tianrui Industrial Park,Fuyuan 1st Road,Fuyong,Bao'an District,Shenzhen,China.

Client:

LumCAT: B8906-TBK

Luminaire: INTERGRATED LED

Report No: BSR202210120201-9

Ballast type:

Test No: BSR202210120201-9

Voltage(V): 120.000

LampCAT:

Current(A): 0.076

Lamp flux(lm)

Power (W): 9.161

Number of Lamps: 0

PF: 0.992

Length(mm): 180

Width(mm): 180

Phm Type: C

Height(mm): 510

Photometric Results

Lumens(lm): 436.68, Luminous Efficacy(lm/W): 47.67

Central intensity(cd): 187.250, Maximum intensity(cd): 189.478

Angle of maximum intensity: C=45.0 γ =7.0

Beam Angle(50%Imax): [C0/180]Total=102.8

[C90/270]Total=113.6

Field angle(10%Imax): [C0/180]Total=154.8

[C90/270]Total=156.2

Maximum s/h(1/2): C0_180=60.32 C90_270=58.88

Maximum s/h(1/4): C0_180=59.06 C90_270=59.06

Up flux rate of LUM(%): 5.07%

Down flux rate of LUM(%): 95.19%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 70.086%

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022-10-12
Humidity(%): 59.0%

Operator: Liao
Distance(m): 10.62

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	187.250	0.000	0	0.00%	0.00%
1.0	187.300	0.179	0.179	0.04%	0.04%
2.0	187.384	0.538	0.717	0.12%	0.16%
3.0	187.596	0.897	1.614	0.21%	0.37%
4.0	187.828	1.257	2.87	0.29%	0.66%
5.0	188.061	1.617	4.488	0.37%	1.03%
6.0	188.202	1.977	6.465	0.45%	1.48%
7.0	187.849	2.334	8.799	0.53%	2.02%
8.0	185.791	2.674	11.473	0.61%	2.63%
9.0	176.902	2.939	14.413	0.67%	3.30%
10.0	162.917	3.075	17.488	0.70%	4.00%
11.0	131.084	2.938	20.425	0.67%	4.68%
12.0	99.758	2.523	22.949	0.58%	5.26%
13.0	77.645	2.105	25.054	0.48%	5.74%
14.0	67.537	1.858	26.913	0.43%	6.16%
15.0	62.595	1.787	28.699	0.41%	6.57%
16.0	66.536	1.892	30.591	0.43%	7.01%
17.0	74.734	2.200	32.791	0.50%	7.51%
18.0	82.629	2.595	35.386	0.59%	8.10%
19.0	90.601	3.014	38.4	0.69%	8.79%
20.0	97.305	3.439	41.839	0.79%	9.58%
21.0	103.430	3.855	45.693	0.88%	10.46%
22.0	108.583	4.261	49.954	0.98%	11.44%
23.0	113.398	4.658	54.612	1.07%	12.51%
24.0	116.288	5.022	59.633	1.15%	13.66%
25.0	117.402	5.314	64.947	1.22%	14.87%
26.0	117.514	5.545	70.492	1.27%	16.14%
27.0	116.379	5.722	76.214	1.31%	17.45%
28.0	114.807	5.853	82.067	1.34%	18.79%
29.0	113.109	5.963	88.03	1.37%	20.16%
30.0	111.685	6.069	94.1	1.39%	21.55%
31.0	110.310	6.178	100.278	1.41%	22.96%
32.0	109.140	6.287	106.565	1.44%	24.40%
33.0	108.118	6.401	112.965	1.47%	25.87%
34.0	107.230	6.517	119.482	1.49%	27.36%
35.0	106.306	6.632	126.114	1.52%	28.88%
36.0	105.305	6.738	132.852	1.54%	30.42%
37.0	103.628	6.814	139.666	1.56%	31.98%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	101.887	6.860	146.526	1.57%	33.55%
39.0	100.406	6.905	153.43	1.58%	35.14%
40.0	99.116	6.959	160.389	1.59%	36.73%
41.0	98.080	7.022	167.411	1.61%	38.34%
42.0	96.988	7.087	174.498	1.62%	39.96%
43.0	95.888	7.145	181.643	1.64%	41.60%
44.0	94.838	7.199	188.841	1.65%	43.25%
45.0	93.491	7.238	196.079	1.66%	44.90%
46.0	91.976	7.253	203.332	1.66%	46.56%
47.0	90.665	7.264	210.596	1.66%	48.23%
48.0	89.325	7.276	217.873	1.67%	49.89%
49.0	87.937	7.279	225.152	1.67%	51.56%
50.0	86.428	7.270	232.422	1.66%	53.23%
51.0	84.842	7.246	239.668	1.66%	54.88%
52.0	83.608	7.228	246.896	1.66%	56.54%
53.0	82.213	7.213	254.109	1.65%	58.19%
54.0	80.634	7.178	261.287	1.64%	59.84%
55.0	79.062	7.129	268.416	1.63%	61.47%
56.0	77.666	7.082	275.498	1.62%	63.09%
57.0	76.426	7.045	282.543	1.61%	64.70%
58.0	75.002	7.003	289.546	1.60%	66.31%
59.0	73.437	6.940	296.485	1.59%	67.90%
60.0	71.759	6.860	303.345	1.57%	69.47%
61.0	70.307	6.780	310.124	1.55%	71.02%
62.0	68.636	6.695	316.82	1.53%	72.55%
63.0	66.867	6.590	323.41	1.51%	74.06%
64.0	64.837	6.463	329.872	1.48%	75.54%
65.0	63.159	6.334	336.207	1.45%	76.99%
66.0	61.369	6.213	342.42	1.42%	78.42%
67.0	59.113	6.058	348.478	1.39%	79.80%
68.0	56.590	5.861	354.339	1.34%	81.14%
69.0	53.925	5.638	359.977	1.29%	82.44%
70.0	51.331	5.406	365.383	1.24%	83.67%
71.0	47.567	5.112	370.495	1.17%	84.84%
72.0	43.612	4.741	375.236	1.09%	85.93%
73.0	39.933	4.369	379.604	1.00%	86.93%
74.0	36.606	4.024	383.628	0.92%	87.85%
75.0	32.771	3.666	387.294	0.84%	88.69%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	28.372	3.246	390.54	0.74%	89.43%
77.0	24.354	2.811	393.351	0.64%	90.08%
78.0	21.246	2.441	395.792	0.56%	90.64%
79.0	18.327	2.126	397.918	0.49%	91.12%
80.0	15.240	1.810	399.728	0.41%	91.54%
81.0	13.020	1.528	401.256	0.35%	91.89%
82.0	11.680	1.339	402.595	0.31%	92.20%
83.0	10.855	1.225	403.82	0.28%	92.48%
84.0	10.334	1.154	404.975	0.26%	92.74%
85.0	9.876	1.103	406.078	0.25%	92.99%
86.0	9.425	1.055	407.133	0.24%	93.23%
87.0	9.023	1.010	408.142	0.23%	93.47%
88.0	8.550	0.963	409.105	0.22%	93.69%
89.0	8.135	0.915	410.02	0.21%	93.90%
90.0	7.796	0.873	410.893	0.20%	94.10%
91.0	7.535	0.841	411.734	0.19%	94.29%
92.0	7.331	0.815	412.548	0.19%	94.47%
93.0	7.120	0.792	413.34	0.18%	94.66%
94.0	6.957	0.770	414.11	0.18%	94.83%
95.0	6.760	0.750	414.86	0.17%	95.00%
96.0	6.640	0.731	415.592	0.17%	95.17%
97.0	6.464	0.714	416.305	0.16%	95.33%
98.0	6.323	0.695	417.001	0.16%	95.49%
99.0	6.182	0.678	417.679	0.16%	95.65%
100.0	6.090	0.664	418.342	0.15%	95.80%
101.0	5.963	0.650	418.992	0.15%	95.95%
102.0	5.830	0.634	419.626	0.15%	96.10%
103.0	5.667	0.615	420.241	0.14%	96.24%
104.0	5.583	0.600	420.841	0.14%	96.37%
105.0	5.491	0.588	421.429	0.13%	96.51%
106.0	5.393	0.575	422.004	0.13%	96.64%
107.0	5.259	0.560	422.564	0.13%	96.77%
108.0	5.160	0.545	423.109	0.12%	96.89%
109.0	5.082	0.533	423.641	0.12%	97.01%
110.0	4.963	0.519	424.161	0.12%	97.13%
111.0	4.850	0.504	424.664	0.12%	97.25%
112.0	4.723	0.488	425.153	0.11%	97.36%
113.0	4.624	0.473	425.626	0.11%	97.47%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	4.533	0.460	426.087	0.11%	97.57%
115.0	4.441	0.448	426.534	0.10%	97.68%
116.0	4.321	0.434	426.968	0.10%	97.78%
117.0	4.258	0.421	427.389	0.10%	97.87%
118.0	4.173	0.410	427.799	0.09%	97.97%
119.0	4.081	0.398	428.197	0.09%	98.06%
120.0	4.004	0.386	428.583	0.09%	98.15%
121.0	3.905	0.374	428.956	0.09%	98.23%
122.0	3.849	0.363	429.319	0.08%	98.32%
123.0	3.757	0.352	429.67	0.08%	98.40%
124.0	3.673	0.340	430.01	0.08%	98.47%
125.0	3.602	0.329	430.339	0.08%	98.55%
126.0	3.546	0.319	430.658	0.07%	98.62%
127.0	3.482	0.310	430.968	0.07%	98.69%
128.0	3.362	0.298	431.265	0.07%	98.76%
129.0	3.299	0.286	431.551	0.07%	98.83%
130.0	3.207	0.275	431.827	0.06%	98.89%
131.0	3.151	0.265	432.092	0.06%	98.95%
132.0	3.080	0.256	432.348	0.06%	99.01%
133.0	2.996	0.246	432.593	0.06%	99.06%
134.0	2.939	0.236	432.829	0.05%	99.12%
135.0	2.834	0.226	433.055	0.05%	99.17%
136.0	2.770	0.215	433.27	0.05%	99.22%
137.0	2.700	0.206	433.477	0.05%	99.27%
138.0	2.615	0.197	433.674	0.05%	99.31%
139.0	2.566	0.188	433.862	0.04%	99.36%
140.0	2.509	0.181	434.043	0.04%	99.40%
141.0	2.453	0.173	434.216	0.04%	99.44%
142.0	2.361	0.164	434.38	0.04%	99.47%
143.0	2.333	0.157	434.537	0.04%	99.51%
144.0	2.277	0.150	434.687	0.03%	99.54%
145.0	2.213	0.143	434.83	0.03%	99.58%
146.0	2.143	0.135	434.965	0.03%	99.61%
147.0	2.087	0.128	435.093	0.03%	99.64%
148.0	2.044	0.122	435.215	0.03%	99.67%
149.0	1.981	0.115	435.33	0.03%	99.69%
150.0	1.924	0.109	435.439	0.02%	99.72%
151.0	1.868	0.102	435.542	0.02%	99.74%

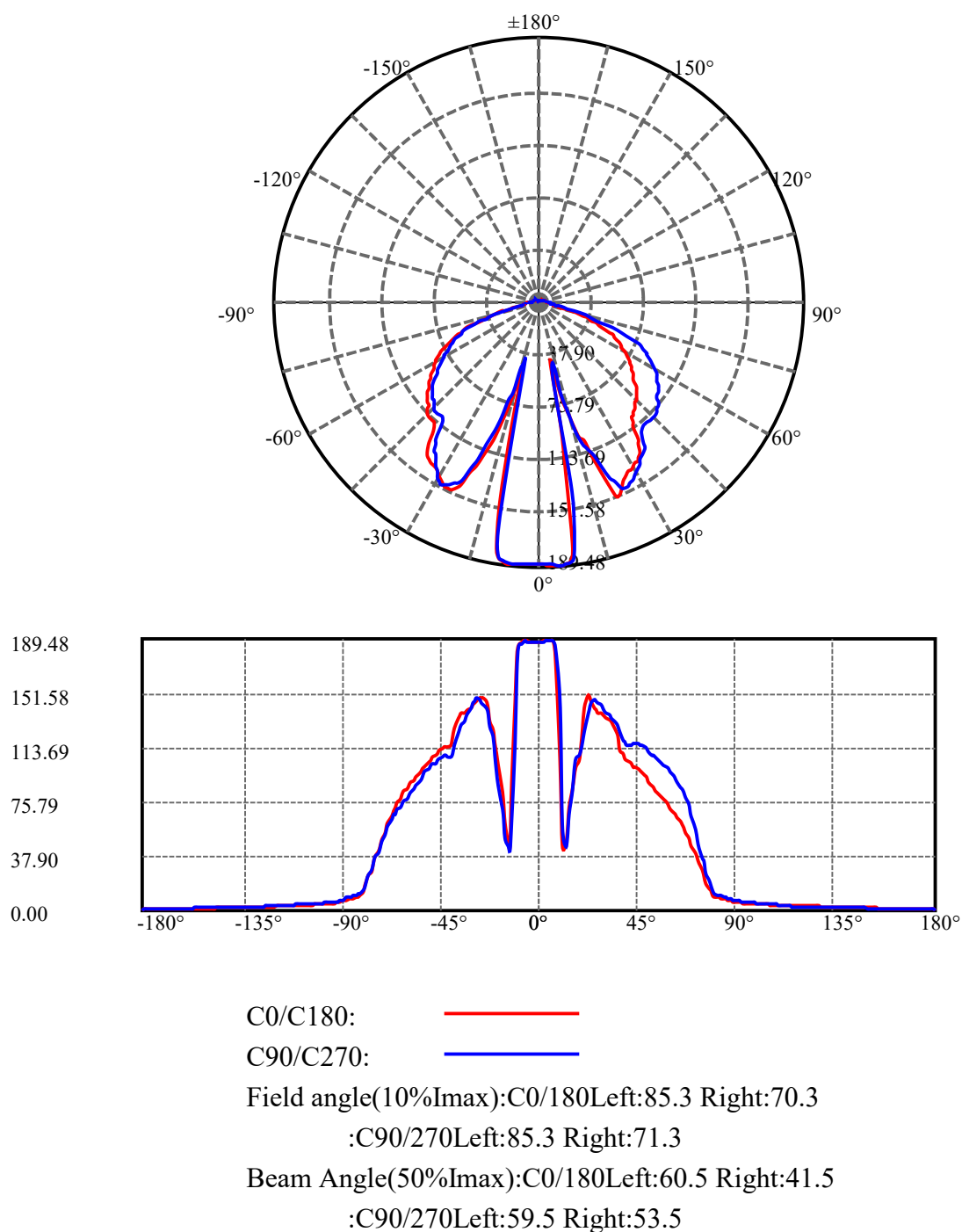
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	1.819	0.096	435.638	0.02%	99.76%
153.0	1.762	0.091	435.729	0.02%	99.78%
154.0	1.692	0.085	435.813	0.02%	99.80%
155.0	1.649	0.079	435.892	0.02%	99.82%
156.0	1.614	0.074	435.966	0.02%	99.84%
157.0	1.558	0.069	436.036	0.02%	99.85%
158.0	1.523	0.065	436.1	0.01%	99.87%
159.0	1.466	0.060	436.16	0.01%	99.88%
160.0	1.417	0.055	436.216	0.01%	99.89%
161.0	1.375	0.051	436.267	0.01%	99.91%
162.0	1.339	0.047	436.314	0.01%	99.92%
163.0	1.269	0.043	436.357	0.01%	99.93%
164.0	1.262	0.039	436.396	0.01%	99.94%
165.0	1.205	0.036	436.432	0.01%	99.94%
166.0	1.198	0.033	436.465	0.01%	99.95%
167.0	1.163	0.030	436.496	0.01%	99.96%
168.0	1.142	0.027	436.523	0.01%	99.96%
169.0	1.149	0.025	436.548	0.01%	99.97%
170.0	1.121	0.023	436.571	0.01%	99.98%
171.0	1.100	0.020	436.591	0.00%	99.98%
172.0	1.114	0.018	436.609	0.00%	99.98%
173.0	1.114	0.016	436.625	0.00%	99.99%
174.0	1.107	0.014	436.639	0.00%	99.99%
175.0	1.128	0.012	436.65	0.00%	99.99%
176.0	1.107	0.010	436.66	0.00%	100.00%
177.0	1.114	0.007	436.667	0.00%	100.00%
178.0	1.128	0.005	436.673	0.00%	100.00%
179.0	1.121	0.003	436.676	0.00%	100.00%
180.0	0.000	0.001	436.676	0.00%	100.00%

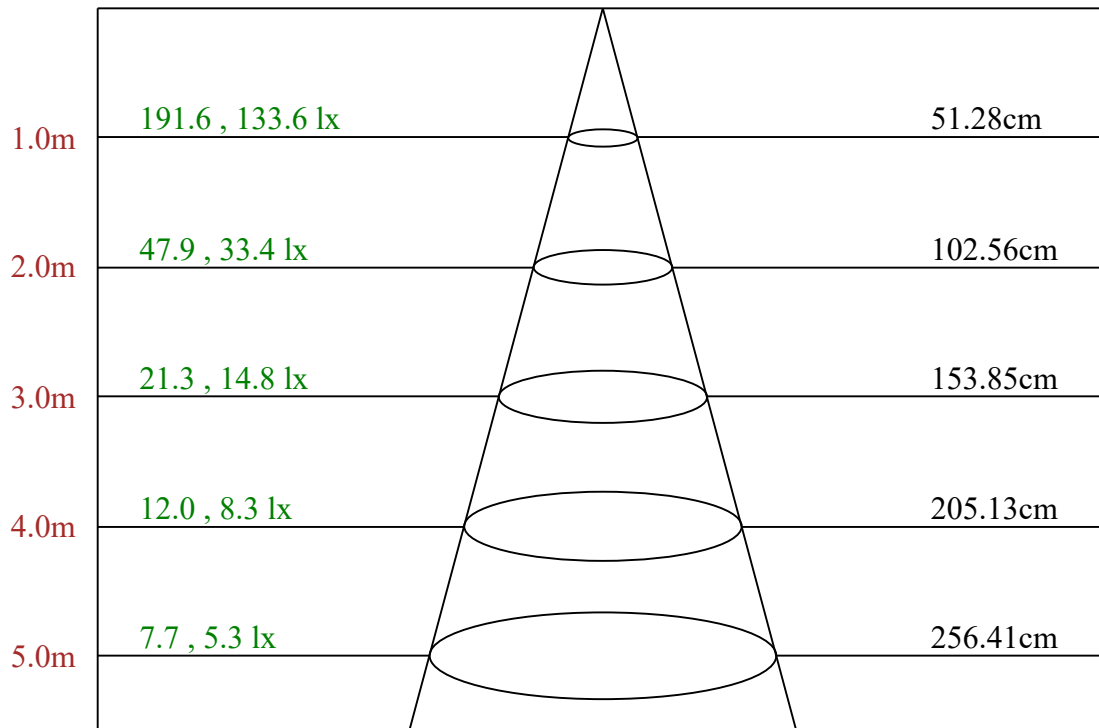
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	94.10	21.55%
0-40	160.39	36.73%
0-60	303.34	69.47%
0-90	410.89	94.10%
0-120	428.58	98.15%
0-180	436.68	100.00%
60-90	107.55	24.63%
90-120	17.69	4.05%
90-130	20.93	4.79%
90-150	24.55	5.62%
90-180	25.78	5.90%
0-67.15	349.34	80.00%

ZONAL LUMEN SUMMARY

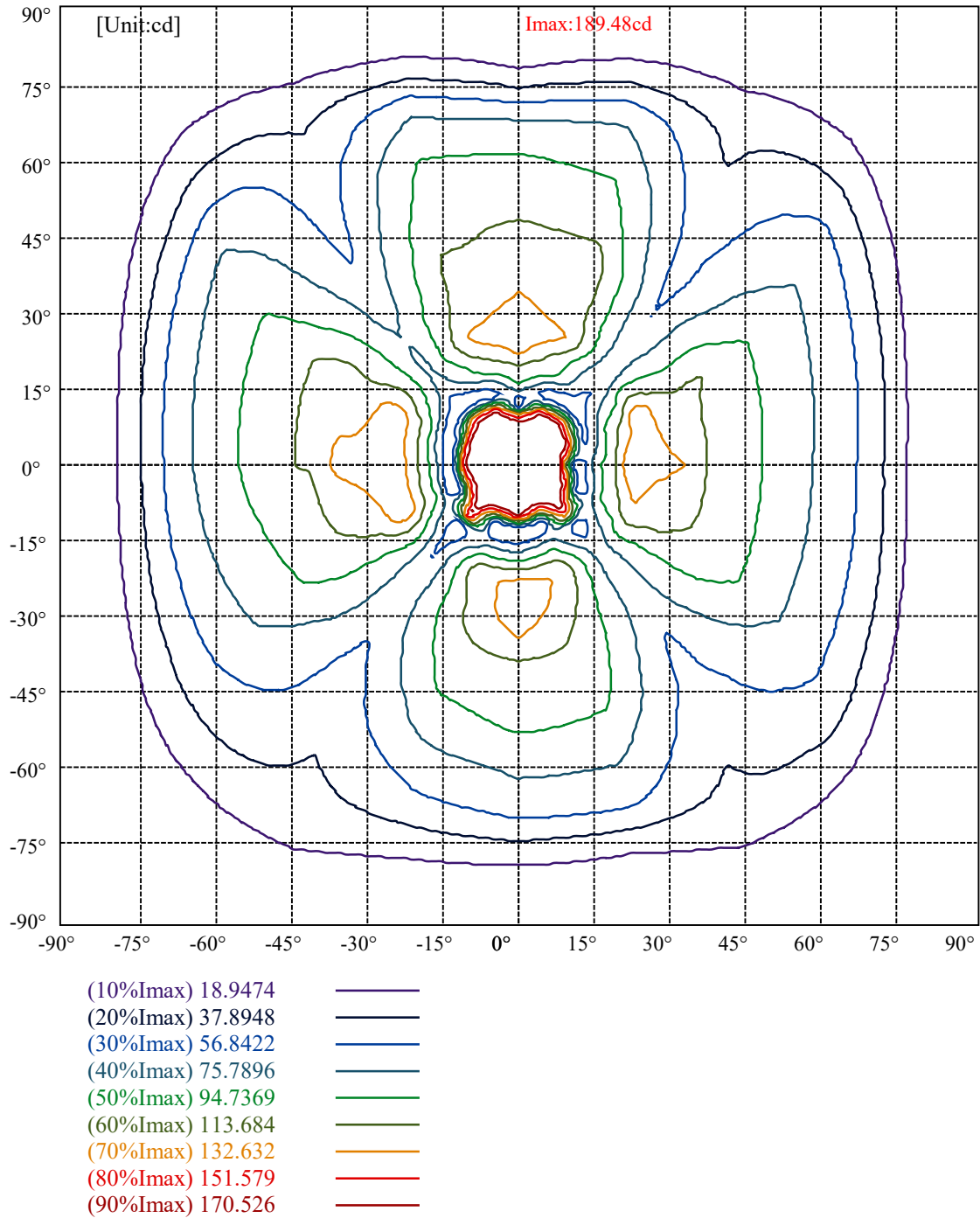
0-10	17.49
10-20	24.35
20-30	52.26
30-40	66.29
40-50	72.03
50-60	70.92
60-70	62.04
70-80	34.34
80-90	11.17
90-100	7.45
100-110	5.82
110-120	4.42
120-130	3.24
130-140	2.22
140-150	1.40
150-160	0.78
160-170	0.36
170-180	0.11

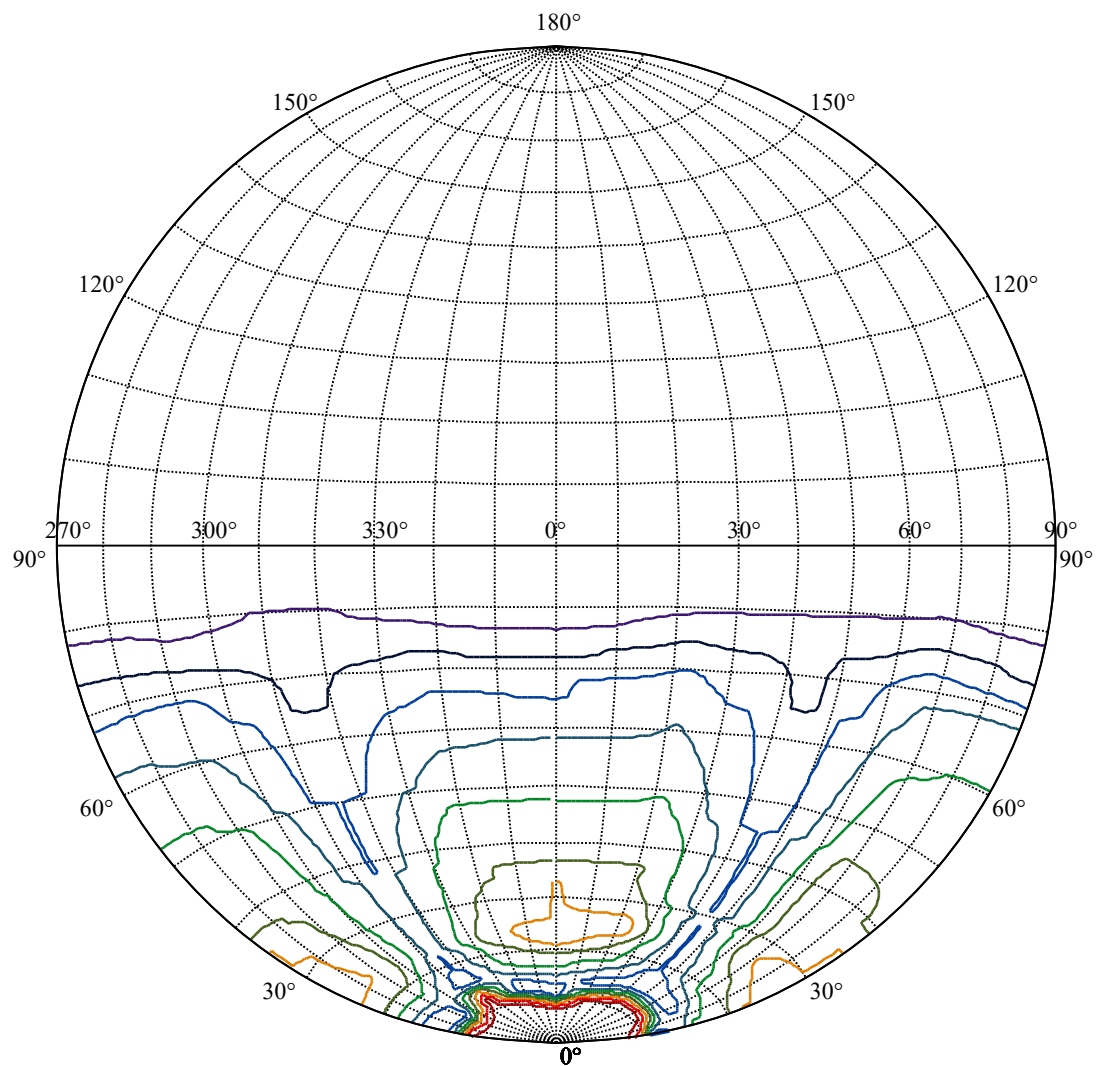




Max , Ave

Beam angle of C45 plane 28.76





House

[Unit:cd]

Road

Imax:189.48

(10%Imax) 19.1733

(20%Imax) 38.3467

(30%Imax) 57.52

(40%Imax) 76.6934

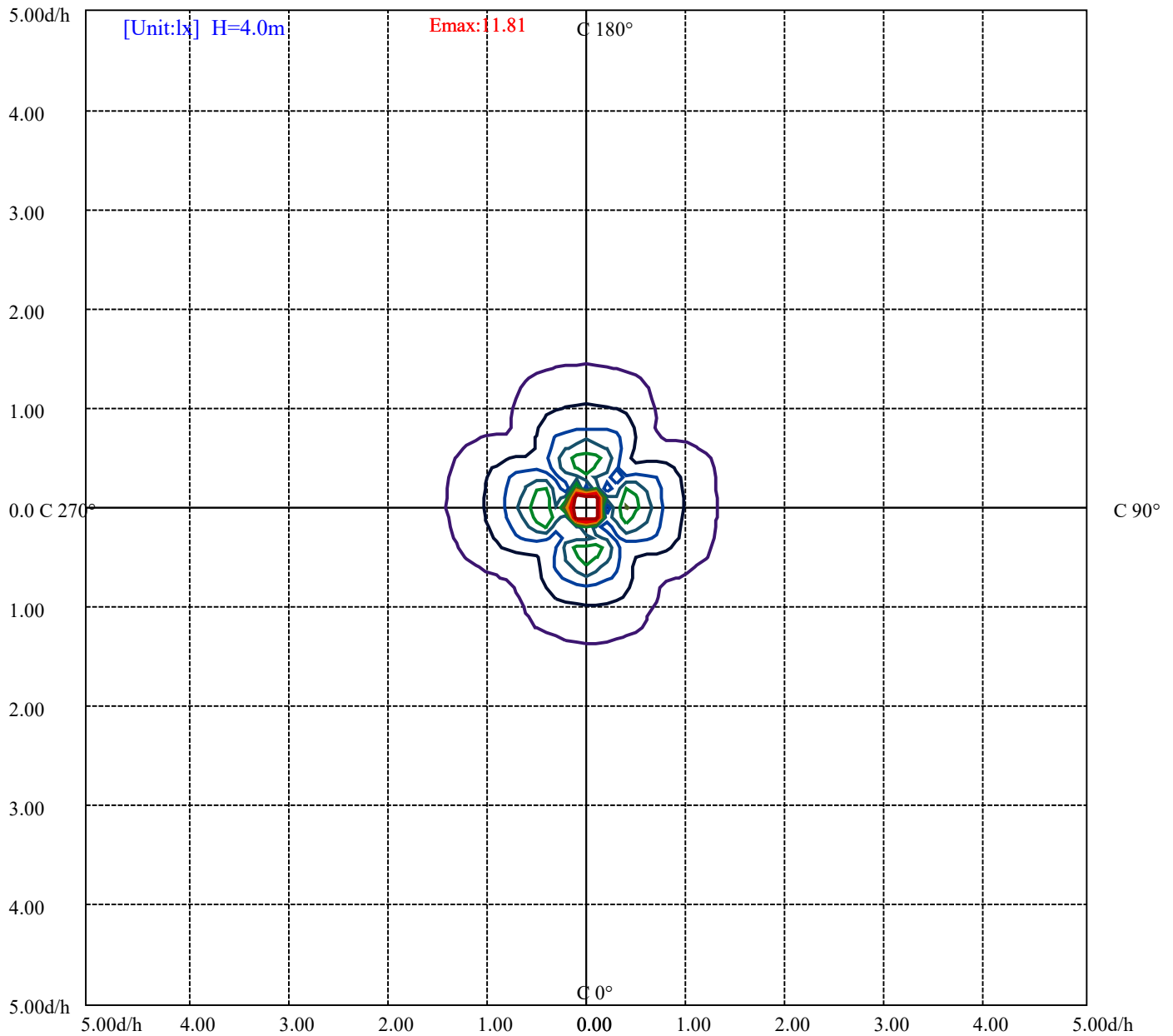
(50%Imax) 95.8667

(60%Imax) 115.04

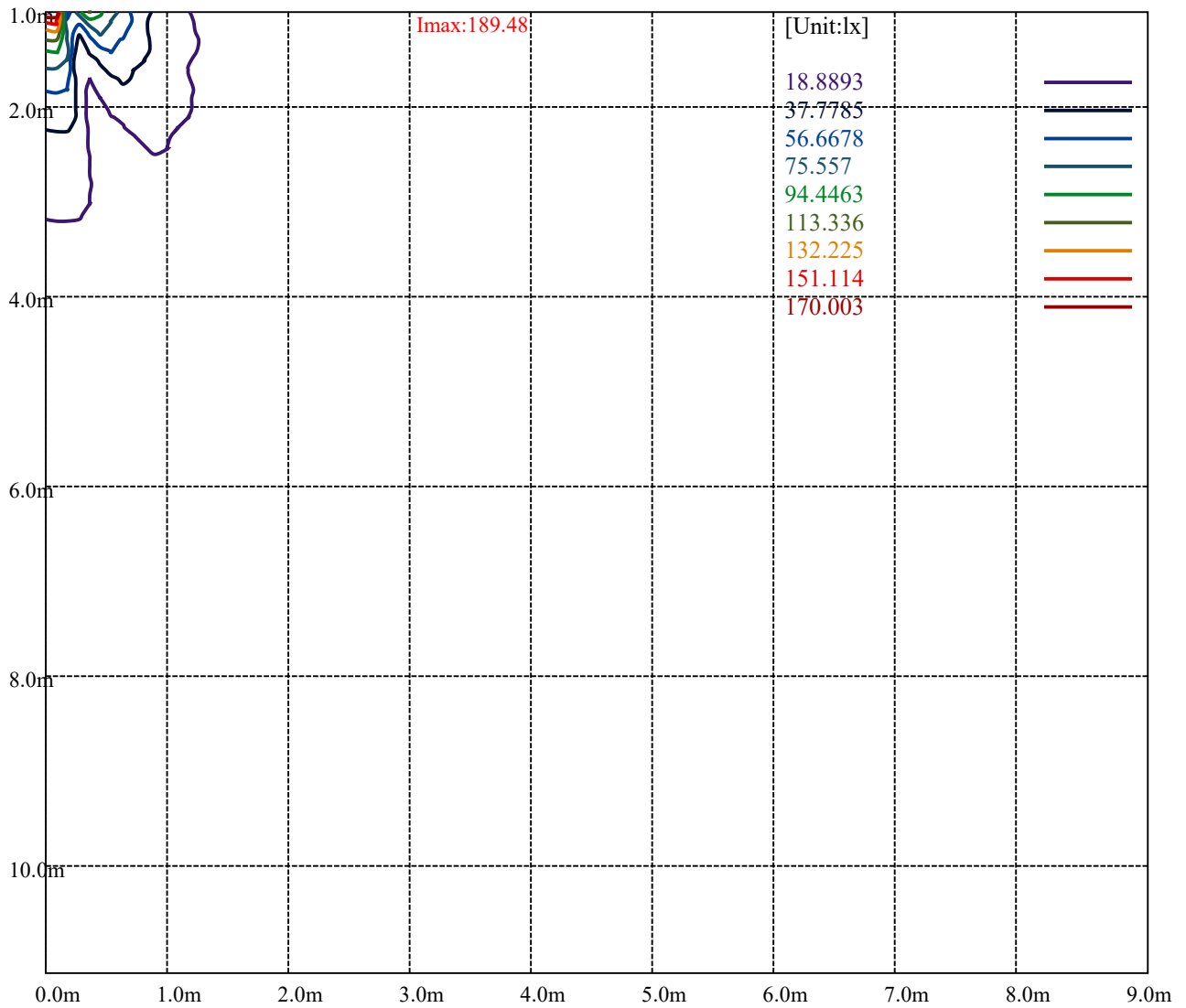
(70%Imax) 134.213

(80%Imax) 153.387

(90%Imax) 172.56



(10%E _{max}) 1.180581	—
(20%E _{max}) 2.361156	—
(30%E _{max}) 3.541738	—
(40%E _{max}) 4.722312	—
(50%E _{max}) 5.902894	—
(60%E _{max}) 7.0835	—
(70%E _{max}) 8.264063	—
(80%E _{max}) 9.444625	—
(90%E _{max}) 10.62519	—



Luminance Table

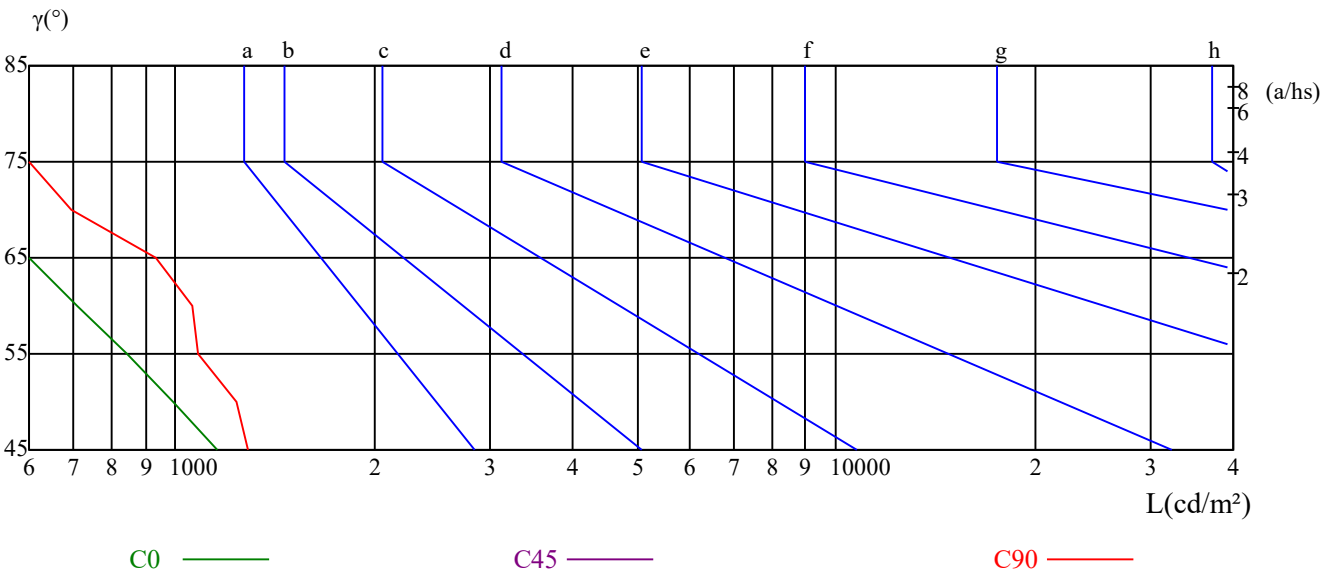
γ	45	50	55	60	65	70	75	80	85
C0	1156	990	842	707	582	463	232	117	120
C45	492	375	361	351	258	254	169	84	85
C90	1284	1237	1082	1061	931	695	349	117	120

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4530	5766	2677	3362	4035	3026	3994	3994	3994

Glare Table

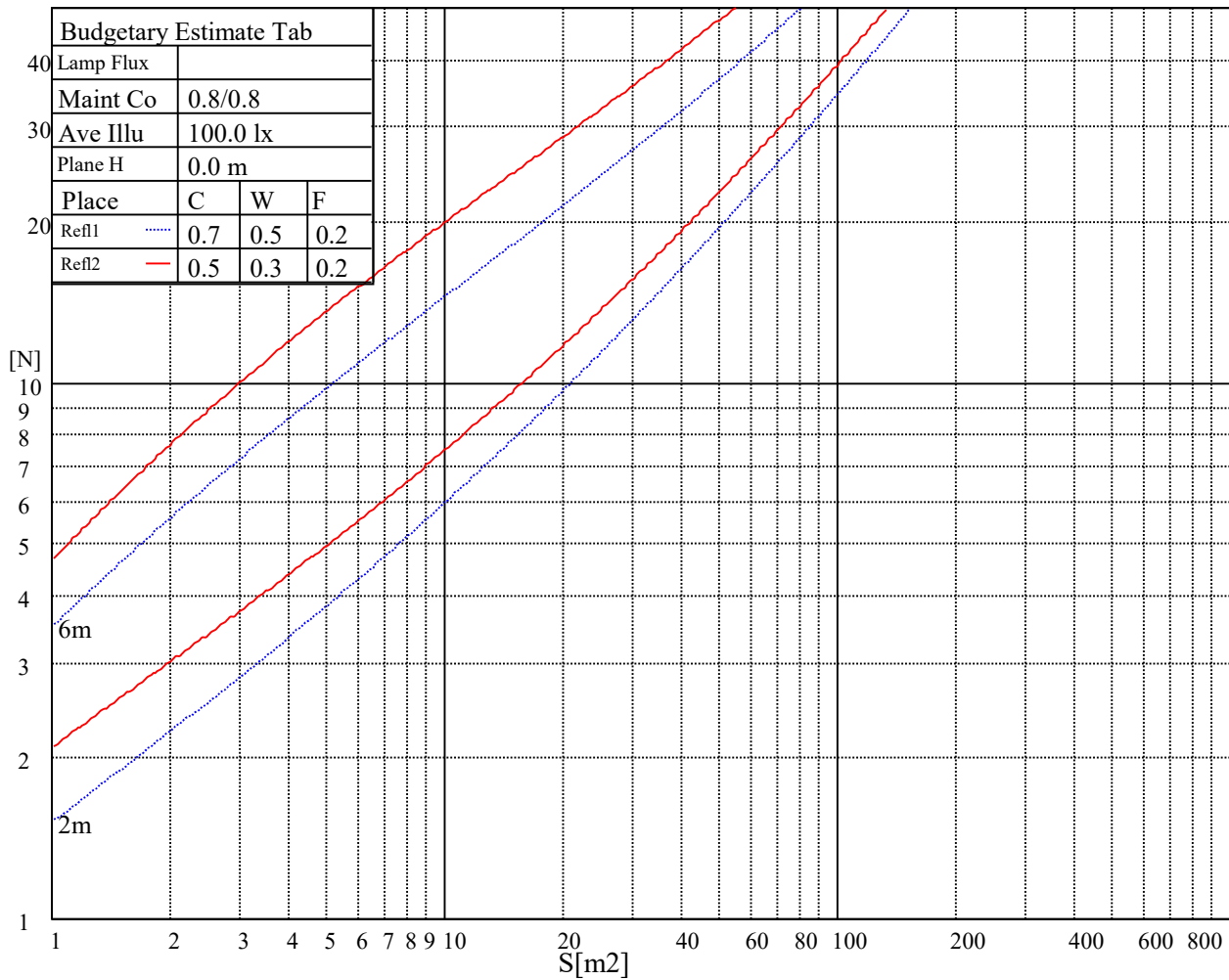
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

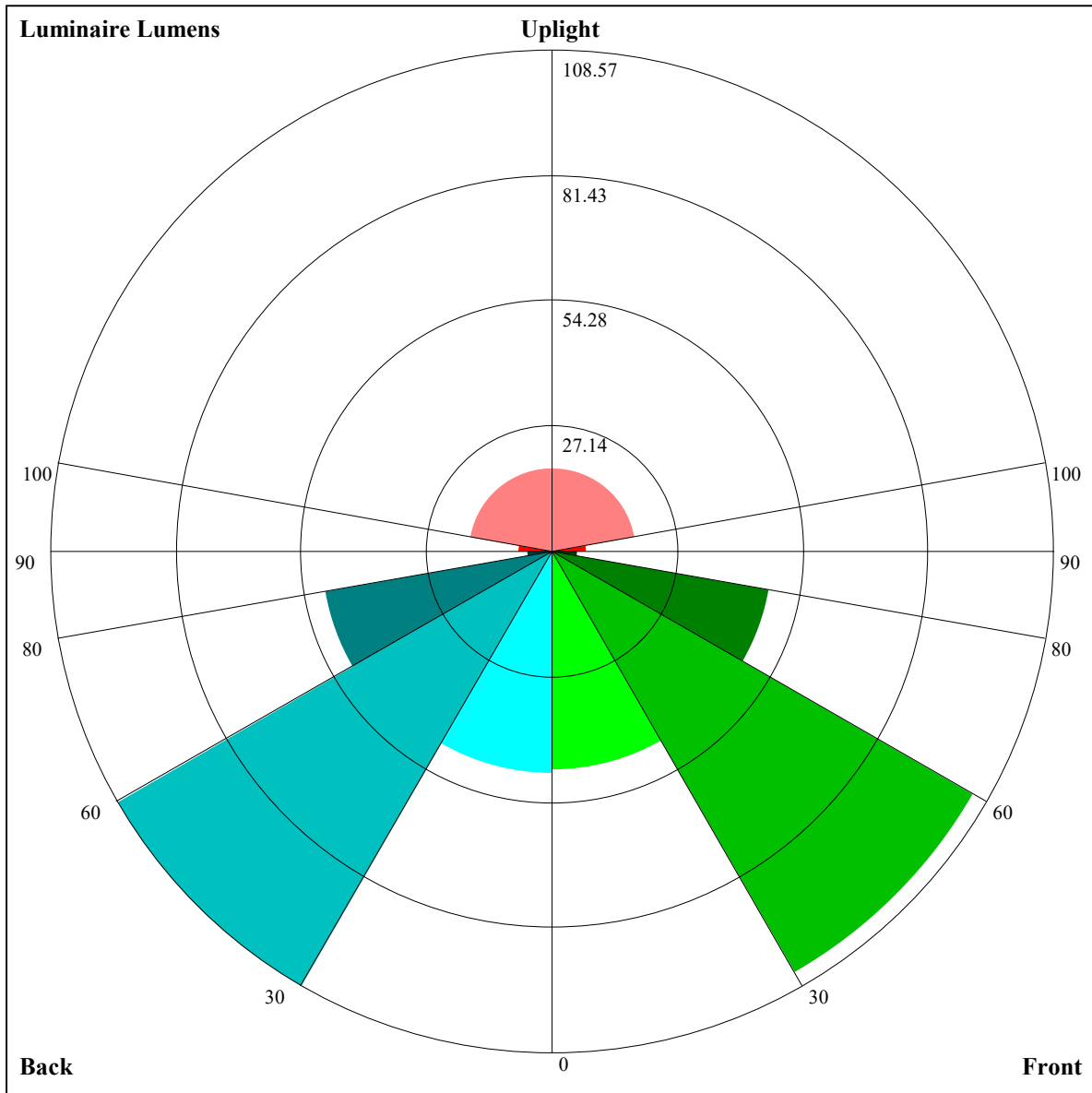


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	10.47	12.04	10.92	12.48	12.94	11.68	13.25	12.13	13.69	14.15
	3H	12.26	13.69	12.73	14.15	14.63	13.76	15.20	14.23	15.65	16.13
	4H	12.64	13.99	13.13	14.46	14.96	14.18	15.53	14.66	16.00	16.50
	6H	12.75	14.00	13.24	14.48	15.01	14.29	15.55	14.78	16.03	16.56
	8H	12.73	13.94	13.22	14.43	14.96	14.27	15.48	14.76	15.97	16.51
	12H	12.71	13.88	13.21	14.37	14.92	14.24	15.41	14.75	15.91	16.45
4H	2H	10.92	12.27	11.40	12.74	13.24	11.96	13.31	12.44	13.77	14.27
	3H	12.91	14.07	13.42	14.57	15.11	14.25	15.41	14.76	15.91	16.45
	4H	13.50	14.53	14.02	15.05	15.62	14.87	15.91	15.39	16.42	17.00
	6H	13.65	14.57	14.19	15.11	15.69	15.03	15.96	15.58	16.50	17.07
	8H	13.67	14.54	14.23	15.08	15.68	15.05	15.92	15.61	16.46	17.06
	12H	13.70	14.51	14.27	15.05	15.68	15.08	15.88	15.64	16.42	17.05
8H	4H	13.65	14.52	14.21	15.07	15.66	14.93	15.79	15.48	16.34	16.93
	6H	13.86	14.58	14.43	15.15	15.77	15.14	15.87	15.72	16.43	17.06
	8H	13.97	14.60	14.56	15.20	15.82	15.24	15.88	15.84	16.48	17.10
	12H	14.03	14.57	14.63	15.17	15.80	15.29	15.83	15.90	16.44	17.07
12H	4H	13.66	14.46	14.22	15.00	15.63	14.92	15.72	15.48	16.26	16.89
	6H	13.92	14.55	14.51	15.15	15.77	15.18	15.82	15.78	16.42	17.04
	8H	13.99	14.53	14.60	15.14	15.77	15.25	15.79	15.85	16.39	17.03
Variation with the observer position at spacings:											
S = 1.0H		0.5/-0.6					0.5/-0.6				
S = 1.5H		1.0/-0.7					0.9/-0.9				
S = 2.0H		1.7/-0.8					1.3/-1.2				
Standard tables:		BK2					BK3				
Uncorrected UGR		-3.4					-4.0				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



RHOC	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	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.95
1	1.01	0.97	0.93	0.99	0.94	0.91	0.94	0.90	0.87	0.89	0.86	0.83	0.84	0.82	0.80	0.78
2	0.87	0.80	0.74	0.85	0.78	0.73	0.81	0.75	0.70	0.77	0.72	0.68	0.73	0.69	0.66	0.63
3	0.76	0.67	0.61	0.74	0.66	0.60	0.70	0.64	0.58	0.67	0.61	0.56	0.64	0.59	0.55	0.52
4	0.67	0.58	0.51	0.65	0.57	0.50	0.62	0.55	0.49	0.59	0.53	0.48	0.56	0.51	0.46	0.44
5	0.59	0.50	0.43	0.58	0.49	0.43	0.55	0.48	0.42	0.53	0.46	0.41	0.50	0.45	0.40	0.38
6	0.53	0.44	0.37	0.52	0.43	0.37	0.50	0.42	0.36	0.47	0.41	0.35	0.45	0.39	0.35	0.33
7	0.48	0.39	0.33	0.47	0.38	0.32	0.45	0.37	0.32	0.43	0.36	0.31	0.41	0.35	0.31	0.28
8	0.44	0.35	0.29	0.43	0.34	0.29	0.41	0.34	0.28	0.39	0.33	0.28	0.38	0.32	0.27	0.25
9	0.40	0.32	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	0.32	0.26	0.22	0.20



Luminaire Lumens:

FL=47.39,FM=105.33,FH=47.73,FVH=5.55

BL=48.05,BM=108.57,BH=50.1,BVH=5.65

UL=7.45,UH=18.33

BUG Rating:B0-U2-G0

Intensity data(cd)

Appendix Page: 19 Total:25

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	187.25	187.67	187.79	188.24	188.58	188.46	188.12	186.09	174.48
22.5	187.25	187.45	187.45	187.79	187.90	188.24	188.58	188.69	188.46
45.0	187.25	187.56	187.67	188.12	188.46	188.69	189.14	189.48	189.48
67.5	187.25	187.22	187.33	187.56	187.79	188.12	188.24	188.58	188.12
90.0	187.25	187.33	187.56	187.90	188.24	188.58	188.46	187.00	182.60
112.5	187.25	187.11	187.22	187.33	187.45	187.90	188.24	188.58	188.69
135.0	187.25	187.11	187.22	187.45	187.90	188.01	188.35	188.58	188.58
157.5	187.25	187.22	187.11	187.11	187.45	187.56	187.56	187.79	186.21
180.0	187.25	187.56	187.45	187.56	187.67	187.90	188.01	188.01	186.55
202.5	187.25	187.33	187.45	187.56	187.67	187.90	187.79	186.55	183.61
225.0	187.25	187.33	187.22	187.22	187.22	187.56	187.90	188.01	188.35
247.5	187.25	187.22	187.22	187.56	187.79	187.90	188.01	187.22	184.63
270.0	187.25	187.22	187.33	187.33	187.45	187.67	187.90	187.67	185.87
292.5	187.25	187.33	187.56	187.79	188.01	188.24	187.90	186.09	181.24
315.0	187.25	187.00	187.22	187.33	187.56	187.90	188.35	188.80	189.14
337.5	187.25	187.11	187.33	187.67	188.12	188.35	188.69	188.46	186.66
360.0	187.25	187.67	187.79	188.24	188.58	188.46	188.12	186.09	174.48
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	123.16	89.66	45.56	45.90	55.72	71.84	84.25	93.05	100.60
22.5	187.90	181.70	136.81	105.68	61.35	49.85	56.62	69.59	77.93
45.0	188.24	186.77	177.75	146.17	117.75	71.17	46.92	43.99	48.50
67.5	187.22	182.60	166.24	123.95	73.42	53.23	46.69	57.41	71.84
90.0	158.57	130.83	59.78	44.89	50.98	67.11	83.69	97.22	106.36
112.5	188.12	185.42	177.30	147.75	97.11	50.87	45.79	55.94	64.63
135.0	187.00	184.06	178.09	157.79	136.24	89.55	53.91	42.29	47.03
157.5	184.63	177.18	151.81	102.18	57.63	44.32	44.55	56.50	71.62
180.0	184.74	176.39	145.27	90.00	46.47	46.58	60.90	78.05	87.07
202.5	173.01	157.33	109.85	62.03	40.60	46.47	54.47	76.92	93.16
225.0	188.24	187.45	185.08	180.79	172.67	161.51	111.88	55.04	45.34
247.5	173.58	138.50	87.07	47.48	43.08	46.47	54.70	65.08	78.39
270.0	183.61	165.34	115.94	63.72	41.96	44.78	50.30	66.54	73.65
292.5	153.84	125.08	75.00	47.14	46.02	54.25	65.41	77.82	91.58
315.0	189.03	187.67	185.08	178.09	155.76	131.96	77.60	50.19	45.00
337.5	179.55	150.68	100.72	52.56	45.56	50.64	63.84	78.95	93.05
360.0	123.16	89.66	45.56	45.90	55.72	71.84	84.25	93.05	100.60
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	104.66	114.25	127.67	140.98	149.10	149.78	146.17	141.54	139.85
22.5	92.71	100.72	105.68	110.64	115.04	127.56	138.39	143.80	142.00
45.0	50.75	53.57	55.15	55.94	56.28	56.28	56.05	56.84	57.75
67.5	86.17	97.45	101.39	102.97	104.10	109.96	118.09	125.98	131.06
90.0	108.84	112.22	117.30	124.85	135.34	139.51	144.70	146.85	146.39
112.5	82.22	93.72	101.51	106.69	109.51	116.62	123.50	129.59	132.63
135.0	50.87	56.73	61.47	65.87	68.01	68.91	70.94	71.51	71.28
157.5	86.62	100.60	109.29	116.84	121.24	130.04	135.45	138.39	139.18
180.0	101.05	109.06	116.39	125.53	131.62	141.66	145.83	147.86	148.20
202.5	99.14	107.48	115.83	125.08	134.66	137.94	140.98	141.09	138.72
225.0	43.20	45.68	48.27	50.64	51.66	53.12	54.36	56.05	57.86
247.5	84.93	98.80	110.42	115.83	122.71	124.85	123.27	119.10	117.18
270.0	86.84	96.99	107.93	120.68	128.12	138.16	141.09	143.01	145.27
292.5	97.67	106.69	115.27	123.61	129.93	130.60	129.36	127.11	125.75
315.0	49.06	53.23	56.84	60.00	61.35	63.16	63.72	63.61	63.38
337.5	97.33	102.41	106.47	108.72	118.65	126.21	128.69	126.09	123.72
360.0	104.66	114.25	127.67	140.98	149.10	149.78	146.17	141.54	139.85

Intensity data(cd)

Appendix Page: 20 Total:25

C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	138.16	137.26	136.69	135.12	134.44	133.42	131.84	128.91	124.40
22.5	136.69	130.38	125.08	122.60	118.87	116.17	114.59	114.36	114.59
45.0	59.44	61.13	62.26	62.37	61.92	60.90	59.89	58.99	57.86
67.5	132.07	129.59	126.66	123.84	122.03	121.81	122.26	123.16	123.39
90.0	144.82	143.01	141.09	139.06	137.94	136.02	133.88	132.41	130.72
112.5	133.09	131.17	127.11	125.42	122.37	120.57	119.44	118.65	117.97
135.0	70.83	70.94	71.96	73.54	74.32	75.57	75.68	75.23	73.65
157.5	138.84	136.69	133.65	130.15	126.66	124.29	123.39	123.72	124.51
180.0	147.86	145.72	144.25	143.01	140.64	139.63	138.72	137.82	137.26
202.5	133.54	128.24	123.72	119.33	117.63	115.60	114.14	112.90	111.43
225.0	58.76	59.89	60.23	60.79	62.14	62.93	63.05	62.48	62.03
247.5	114.70	113.35	112.78	112.33	111.99	111.66	110.87	109.74	108.72
270.0	146.73	147.97	146.51	145.04	141.43	138.27	135.12	131.73	129.81
292.5	123.27	120.23	117.30	114.70	113.69	112.22	111.09	110.30	109.51
315.0	63.16	63.16	63.38	63.72	63.95	64.06	64.06	63.84	63.72
337.5	120.12	118.20	117.07	115.94	114.93	113.12	111.88	111.43	111.32
360.0	138.16	137.26	136.69	135.12	134.44	133.42	131.84	128.91	124.40
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	120.90	111.77	109.06	106.36	105.12	103.65	101.96	100.49	99.70
22.5	114.93	114.93	114.70	114.14	113.24	111.88	109.96	108.39	105.79
45.0	57.41	56.73	56.05	55.83	55.49	54.70	53.69	52.56	52.11
67.5	123.61	123.61	123.72	123.61	123.50	122.48	121.13	119.44	117.41
90.0	128.57	124.85	119.21	117.75	115.60	115.27	115.49	115.94	116.17
112.5	116.96	116.51	116.39	116.62	116.73	116.17	115.15	114.25	112.67
135.0	71.51	68.80	66.32	65.64	64.96	64.51	63.95	62.93	62.37
157.5	126.43	127.33	127.22	125.87	124.63	122.15	119.66	117.07	114.70
180.0	135.45	132.52	127.67	121.58	115.83	114.25	114.14	114.03	113.46
202.5	110.75	109.96	109.18	108.16	107.03	106.36	104.44	102.52	101.73
225.0	61.58	61.35	61.02	60.57	60.11	59.32	57.97	57.29	56.05
247.5	107.37	106.13	104.66	103.87	102.18	100.60	99.02	98.12	97.67
270.0	125.98	121.92	115.83	109.96	106.92	106.81	107.82	108.05	107.48
292.5	109.06	108.50	107.93	107.37	106.69	105.90	105.23	104.10	103.54
315.0	63.05	62.26	61.24	60.00	59.44	57.97	56.28	55.49	54.25
337.5	111.32	110.87	109.96	109.18	108.39	107.26	105.90	103.54	102.30
360.0	120.90	111.77	109.06	106.36	105.12	103.65	101.96	100.49	99.70
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	98.91	97.67	96.09	93.84	92.71	89.66	87.41	86.17	84.14
22.5	103.42	101.05	98.80	97.67	95.64	94.40	92.82	90.79	88.99
45.0	51.20	50.53	49.85	49.51	49.40	49.29	48.95	48.61	48.05
67.5	114.81	112.78	110.75	109.63	107.48	105.68	103.99	102.63	101.73
90.0	116.06	115.83	115.04	113.57	112.78	111.09	108.61	107.82	106.58
112.5	111.66	111.09	110.64	110.42	109.40	108.39	107.26	105.79	104.78
135.0	61.24	59.55	58.87	57.86	56.73	55.49	54.25	53.57	52.67
157.5	112.22	110.19	108.27	107.37	105.23	103.54	101.84	100.38	99.36
180.0	111.99	109.96	107.93	106.81	104.89	103.31	101.73	99.70	98.91
202.5	100.38	98.57	96.21	93.16	91.81	89.78	87.97	86.05	83.91
225.0	54.93	53.80	52.56	51.77	50.30	49.29	48.38	47.60	47.26
247.5	96.77	94.74	94.06	91.81	89.78	87.86	85.83	84.93	83.23
270.0	106.24	104.44	102.75	102.07	100.72	99.36	97.78	95.98	93.16
292.5	102.41	101.28	99.81	98.01	97.11	95.08	93.16	92.48	90.23
315.0	53.46	52.78	52.33	51.88	51.43	51.09	50.41	49.29	48.50
337.5	100.15	97.33	96.66	93.84	91.58	89.55	87.07	85.94	83.91
360.0	98.91	97.67	96.09	93.84	92.71	89.66	87.41	86.17	84.14

Intensity data(cd)

Appendix Page: 21 Total:25

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	82.11	80.53	78.27	77.14	74.89	72.86	70.60	68.12	66.88
22.5	88.08	85.60	84.59	82.67	81.09	79.40	77.93	76.92	74.89
45.0	47.14	46.47	45.79	45.34	44.78	44.10	43.31	42.29	41.84
67.5	100.04	98.69	97.33	95.87	94.96	92.48	90.79	89.89	87.97
90.0	105.45	103.99	102.30	101.39	99.81	98.35	96.66	94.40	92.03
112.5	103.20	101.84	101.28	100.27	99.36	98.24	96.88	95.98	94.06
135.0	51.99	51.54	50.98	50.75	49.96	49.63	49.06	48.38	47.60
157.5	97.67	96.32	94.51	93.05	92.03	90.23	87.97	86.96	85.04
180.0	96.66	94.29	93.16	90.68	88.87	86.96	84.81	83.57	80.75
202.5	82.11	80.53	78.39	77.26	75.57	73.65	71.51	68.57	66.88
225.0	46.58	46.02	45.68	44.89	44.21	43.31	42.41	41.73	40.60
247.5	81.09	78.72	76.02	74.55	72.41	70.15	67.78	65.75	63.72
270.0	90.79	88.42	87.18	84.48	82.11	79.96	77.82	76.69	74.32
292.5	88.54	86.62	84.36	83.35	81.32	79.51	77.37	74.78	73.54
315.0	47.14	45.90	45.56	44.89	44.32	43.65	42.97	42.52	41.50
337.5	81.54	79.51	77.26	76.24	74.32	72.52	70.26	68.35	66.54
360.0	82.11	80.53	78.27	77.14	74.89	72.86	70.60	68.12	66.88
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	64.96	62.93	60.34	57.63	54.70	50.87	46.13	43.65	39.93
22.5	73.08	71.17	69.36	68.01	64.74	62.60	61.13	57.86	54.14
45.0	40.94	39.70	39.14	38.35	37.22	36.09	34.51	33.84	32.59
67.5	86.28	84.25	82.45	81.09	78.39	76.13	73.76	70.94	65.98
90.0	89.44	86.28	85.27	81.88	78.39	73.65	66.99	63.16	56.39
112.5	92.26	90.11	87.75	85.04	82.33	79.63	77.93	74.21	70.26
135.0	46.81	45.79	45.45	44.32	43.31	42.18	40.72	39.93	38.46
157.5	83.23	81.32	79.06	77.82	75.00	72.52	69.48	66.09	61.24
180.0	78.16	75.34	71.96	68.91	65.75	62.14	59.78	54.59	49.85
202.5	64.06	61.47	58.65	56.62	55.15	51.66	48.16	46.35	43.08
225.0	39.70	38.91	38.12	37.11	36.09	35.19	34.62	33.27	32.26
247.5	61.69	59.21	58.08	55.94	53.69	51.32	48.16	46.35	41.73
270.0	72.18	70.04	67.45	66.54	63.61	59.78	57.86	53.46	48.72
292.5	71.84	68.91	67.67	65.53	63.27	60.68	55.94	52.90	47.03
315.0	40.72	40.04	39.25	38.69	37.78	36.54	35.87	34.51	34.06
337.5	64.51	61.92	60.57	58.42	56.39	54.47	51.77	50.19	45.34
360.0	64.96	62.93	60.34	57.63	54.70	50.87	46.13	43.65	39.93
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	36.20	32.37	27.74	23.57	19.29	14.77	13.53	10.83	9.70
22.5	49.51	44.78	41.96	36.65	32.71	28.65	23.46	19.40	17.14
45.0	31.35	29.78	27.18	25.04	22.67	20.41	19.17	17.14	15.23
67.5	60.45	54.36	50.64	43.65	38.12	33.05	28.08	25.26	19.96
90.0	49.74	43.53	36.88	33.61	26.28	20.64	18.16	14.66	12.29
112.5	65.08	59.10	55.26	47.82	41.96	36.43	31.02	27.97	21.88
135.0	36.99	34.85	32.48	31.02	27.18	23.57	21.88	19.06	16.35
157.5	56.50	51.43	48.38	42.18	37.22	32.37	27.41	24.59	19.17
180.0	45.11	40.60	38.01	33.05	27.29	24.81	20.64	18.16	12.74
202.5	39.59	36.20	32.26	30.23	26.73	22.78	18.95	14.77	12.29
225.0	31.13	29.78	28.99	27.18	25.26	23.23	21.20	19.96	17.71
247.5	37.67	35.75	32.71	30.68	25.94	21.54	19.29	16.02	13.42
270.0	43.99	39.70	37.33	32.48	28.53	24.59	20.87	16.69	13.99
292.5	41.73	36.99	31.81	29.44	23.80	19.17	17.14	14.32	12.41
315.0	32.26	30.79	29.78	27.18	24.81	22.56	20.53	19.40	16.92
337.5	40.49	38.91	34.29	30.56	26.17	21.09	18.61	15.00	12.63
360.0	36.20	32.37	27.74	23.57	19.29	14.77	13.53	10.83	9.70

Intensity data(cd)										Appendix Page: 22 Total:25	
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	9.25	8.91	8.80	8.35	7.89	7.44	6.65	6.32	5.86		
22.5	13.08	11.96	10.94	10.49	10.04	9.81	9.59	9.14	8.57		
45.0	13.42	11.84	11.39	10.94	10.38	9.93	9.47	9.14	8.80		
67.5	16.35	13.65	12.07	11.50	10.94	10.38	10.15	9.59	9.14		
90.0	10.94	10.26	10.04	9.70	9.25	8.80	8.12	7.56	6.99		
112.5	17.59	14.21	11.84	10.94	10.49	10.15	10.04	9.59	9.25		
135.0	13.99	11.96	11.28	10.60	10.15	9.81	9.36	8.91	8.68		
157.5	15.45	12.86	11.39	10.94	10.26	9.81	9.47	8.91	8.57		
180.0	10.60	9.81	9.14	8.68	8.23	7.89	7.56	6.99	6.54		
202.5	10.94	10.15	10.04	9.70	9.36	8.91	8.46	8.23	7.89		
225.0	14.89	13.76	11.96	11.17	10.71	10.26	9.93	9.47	9.02		
247.5	11.96	11.28	11.05	10.60	10.15	9.59	9.14	8.68	8.23		
270.0	12.18	11.50	10.83	10.38	9.93	9.36	8.91	8.01	7.22		
292.5	11.50	10.94	10.71	10.26	9.81	9.36	8.80	8.57	8.23		
315.0	14.89	13.20	11.84	11.17	10.71	10.15	9.93	9.36	9.02		
337.5	11.28	10.60	10.38	9.93	9.70	9.14	8.80	8.35	8.12		
360.0	9.25	8.91	8.80	8.35	7.89	7.44	6.65	6.32	5.86		
C/ γ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0		
0.0	5.53	5.41	5.30	5.19	4.96	4.85	4.85	4.62	4.62		
22.5	8.46	8.12	7.78	7.56	7.44	7.33	7.22	6.88	6.77		
45.0	8.68	8.46	8.23	8.01	8.01	7.67	7.67	7.33	7.22		
67.5	8.80	8.57	8.35	8.12	7.89	7.56	7.44	7.22	6.99		
90.0	6.65	6.54	6.32	6.09	5.86	5.64	5.53	5.41	5.30		
112.5	8.80	8.57	8.23	7.89	7.67	7.67	7.33	7.22	6.99		
135.0	8.46	8.35	8.01	7.89	7.78	7.44	7.33	7.22	6.99		
157.5	8.12	7.89	7.67	7.33	7.22	6.99	6.77	6.54	6.54		
180.0	5.98	5.53	5.41	5.19	5.08	4.96	4.74	4.62	4.51		
202.5	7.67	7.33	7.11	6.99	6.77	6.54	6.43	6.32	6.09		
225.0	8.68	8.35	8.12	7.89	7.78	7.56	7.44	7.33	7.11		
247.5	7.89	7.78	7.67	7.44	7.33	6.99	6.99	6.77	6.65		
270.0	6.65	6.20	6.09	5.86	5.64	5.53	5.30	5.30	5.19		
292.5	7.89	7.56	7.44	7.22	7.11	6.88	6.88	6.77	6.54		
315.0	8.68	8.35	8.23	8.01	7.78	7.67	7.56	7.33	7.22		
337.5	7.78	7.56	7.33	7.22	6.99	6.88	6.77	6.54	6.43		
360.0	5.53	5.41	5.30	5.19	4.96	4.85	4.85	4.62	4.62		
C/ γ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0		
0.0	4.40	4.51	4.40	4.17	4.17	4.17	4.06	4.06	3.95		
22.5	6.65	6.65	6.43	6.32	6.20	5.98	5.86	5.75	5.64		
45.0	7.11	6.88	6.77	6.65	6.43	6.32	6.20	6.09	5.98		
67.5	6.88	6.77	6.54	6.43	6.32	6.09	5.98	5.98	5.75		
90.0	5.19	5.08	4.96	4.85	4.62	4.62	4.51	4.40	4.29		
112.5	6.77	6.77	6.54	6.43	6.20	6.09	6.09	5.86	5.75		
135.0	6.88	6.65	6.65	6.43	6.20	6.20	6.09	5.98	5.75		
157.5	6.32	6.20	6.09	5.98	5.75	5.64	5.64	5.53	5.30		
180.0	4.29	4.40	4.17	4.17	3.95	4.06	3.95	3.83	3.72		
202.5	5.98	5.86	5.75	5.64	5.53	5.41	5.30	5.19	5.08		
225.0	6.99	6.88	6.77	6.54	6.43	6.32	6.20	6.09	5.98		
247.5	6.54	6.43	6.32	6.20	5.86	5.86	5.75	5.75	5.53		
270.0	5.08	4.96	4.85	4.74	4.74	4.62	4.51	4.40	4.40		
292.5	6.43	6.20	6.20	6.09	5.86	5.75	5.75	5.64	5.53		
315.0	7.11	6.99	6.88	6.65	6.54	6.43	6.32	6.20	6.09		
337.5	6.32	6.20	6.09	5.98	5.86	5.75	5.64	5.53	5.41		
360.0	4.40	4.51	4.40	4.17	4.17	4.17	4.06	4.06	3.95		

Intensity data(cd)									Appendix Page: 23 Total:25		
C/ γ (°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0		
0.0	3.83	3.83	3.83	3.72	3.61	3.61	3.50	3.50	3.38		
22.5	5.64	5.53	5.41	5.30	5.19	5.19	5.08	4.85	4.74		
45.0	5.75	5.75	5.64	5.64	5.41	5.19	5.19	5.08	4.85		
67.5	5.64	5.53	5.41	5.30	5.08	4.96	4.85	4.74	4.62		
90.0	4.17	4.06	3.83	3.61	3.38	3.16	3.05	2.82	2.59		
112.5	5.64	5.53	5.30	5.19	5.08	4.96	4.85	4.74	4.62		
135.0	5.75	5.53	5.53	5.30	5.19	5.08	4.96	4.85	4.74		
157.5	5.19	5.19	5.08	4.96	4.85	4.74	4.62	4.51	4.40		
180.0	3.72	3.61	3.50	3.50	3.38	3.38	3.27	3.27	3.27		
202.5	4.96	4.96	4.74	4.62	4.62	4.51	4.40	4.29	4.29		
225.0	5.86	5.75	5.64	5.41	5.30	5.30	5.19	5.08	4.96		
247.5	5.53	5.41	5.19	5.19	5.08	4.85	4.85	4.74	4.62		
270.0	4.29	4.29	4.17	4.06	3.95	3.95	3.95	3.83	3.83		
292.5	5.30	5.30	5.19	5.08	4.96	4.85	4.74	4.74	4.51		
315.0	5.98	5.86	5.75	5.64	5.53	5.41	5.30	5.30	5.19		
337.5	5.30	5.19	5.19	5.08	4.96	4.85	4.74	4.74	4.51		
360.0	3.83	3.83	3.83	3.72	3.61	3.61	3.50	3.50	3.38		
C/ γ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0		
0.0	3.38	3.38	3.27	3.38	3.16	3.27	3.16	3.16	3.16		
22.5	4.62	4.62	4.51	4.29	4.29	4.29	4.17	4.17	3.95		
45.0	4.96	4.74	4.62	4.62	4.40	4.29	4.17	4.06	4.06		
67.5	4.51	4.40	4.29	4.29	4.17	4.06	3.95	3.83	3.72		
90.0	2.48	2.48	2.48	2.48	2.48	2.37	2.48	2.48	2.48		
112.5	4.51	4.40	4.29	4.17	4.06	4.06	3.95	3.83	3.72		
135.0	4.74	4.51	4.51	4.29	4.29	4.17	4.06	3.83	3.83		
157.5	4.29	4.29	4.17	4.06	3.95	3.83	3.72	3.72	3.50		
180.0	3.16	3.16	3.05	2.93	2.93	2.93	2.82	2.82	2.71		
202.5	4.17	4.06	4.06	3.95	3.83	3.72	3.61	3.61	3.50		
225.0	4.96	4.85	4.74	4.62	4.51	4.40	4.40	4.17	4.06		
247.5	4.51	4.51	4.29	4.29	4.17	4.17	4.06	3.95	3.95		
270.0	3.72	3.61	3.50	3.38	3.27	3.27	3.16	3.05	2.93		
292.5	4.51	4.40	4.40	4.29	4.17	4.06	3.95	3.83	3.83		
315.0	5.08	4.96	4.85	4.74	4.62	4.51	4.51	4.40	4.29		
337.5	4.51	4.40	4.29	4.29	4.17	4.17	3.95	3.83	3.95		
360.0	3.38	3.38	3.27	3.38	3.16	3.27	3.16	3.16	3.16		
C/ γ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0		
0.0	3.05	3.05	2.93	2.93	2.93	2.93	2.82	2.71	2.71		
22.5	3.95	3.95	3.72	3.72	3.61	3.50	3.38	3.27	3.27		
45.0	3.95	3.83	3.72	3.61	3.50	3.38	3.38	3.27	3.16		
67.5	3.72	3.61	3.50	3.38	3.27	3.27	3.16	3.05	2.93		
90.0	2.48	2.48	2.48	2.48	2.48	2.48	2.37	2.37	2.37		
112.5	3.61	3.50	3.38	3.38	3.16	3.27	3.05	3.05	2.93		
135.0	3.72	3.72	3.50	3.38	3.38	3.27	3.27	3.16	3.05		
157.5	3.50	3.38	3.16	3.16	3.05	2.82	2.82	2.71	2.71		
180.0	2.71	2.59	2.37	2.37	2.26	2.14	2.14	2.03	2.03		
202.5	3.38	3.38	3.27	3.16	3.16	3.05	3.05	2.82	2.82		
225.0	4.06	4.06	3.95	3.83	3.72	3.61	3.61	3.50	3.38		
247.5	3.83	3.72	3.61	3.50	3.38	3.38	3.27	3.27	3.16		
270.0	2.93	2.82	2.93	2.82	2.71	2.71	2.71	2.71	2.59		
292.5	3.83	3.72	3.61	3.61	3.50	3.38	3.27	3.16	3.16		
315.0	4.29	4.17	4.06	3.95	3.83	3.83	3.72	3.61	3.61		
337.5	3.72	3.72	3.61	3.50	3.38	3.38	3.27	3.27	3.16		
360.0	3.05	3.05	2.93	2.93	2.93	2.93	2.82	2.71	2.71		

Intensity data(cd)

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C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	2.59	2.59	2.48	2.37	2.48	2.37	2.37	2.26	2.26
22.5	3.16	2.93	2.93	2.93	2.82	2.71	2.59	2.48	2.48
45.0	3.05	3.05	2.93	2.82	2.71	2.71	2.59	2.48	2.48
67.5	2.82	2.82	2.71	2.59	2.59	2.37	2.37	2.26	2.26
90.0	2.26	2.26	2.14	2.14	2.03	2.03	2.03	2.03	1.92
112.5	2.82	2.71	2.59	2.59	2.48	2.48	2.37	2.26	2.26
135.0	2.93	2.82	2.82	2.71	2.59	2.59	2.48	2.37	2.37
157.5	2.59	2.59	2.48	2.37	2.37	2.37	2.26	2.14	2.03
180.0	1.92	1.92	1.80	1.80	1.80	1.80	1.80	1.80	1.80
202.5	2.71	2.71	2.59	2.59	2.48	2.37	2.37	2.26	2.26
225.0	3.38	3.27	3.16	2.93	3.05	2.93	2.93	2.82	2.82
247.5	2.93	2.93	3.05	2.82	2.71	2.71	2.59	2.48	2.48
270.0	2.59	2.48	2.48	2.48	2.37	2.37	2.26	2.26	2.26
292.5	3.05	2.93	2.93	2.82	2.71	2.71	2.71	2.48	2.48
315.0	3.50	3.38	3.16	3.16	3.16	3.05	2.93	2.93	2.82
337.5	3.05	2.93	2.93	2.71	2.71	2.59	2.59	2.48	2.37
360.0	2.59	2.59	2.48	2.37	2.48	2.37	2.37	2.26	2.26
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	2.14	2.14	2.03	2.03	2.03	1.92	1.92	1.80	1.80
22.5	2.48	2.37	2.26	2.14	2.14	2.03	2.03	2.03	1.92
45.0	2.37	2.37	2.26	2.14	2.03	2.03	2.03	2.03	1.92
67.5	2.14	2.03	2.03	1.92	1.92	1.92	1.80	1.69	1.58
90.0	1.92	1.80	1.80	1.80	1.80	1.69	1.69	1.58	1.58
112.5	2.26	2.14	2.03	1.92	1.92	1.92	1.80	1.80	1.69
135.0	2.26	2.26	2.26	2.14	2.03	1.92	1.92	1.80	1.80
157.5	2.14	2.03	1.92	1.92	1.92	1.80	1.80	1.69	1.69
180.0	1.80	1.80	1.80	1.69	1.69	1.69	1.58	1.69	1.69
202.5	2.26	2.03	2.03	1.92	1.92	1.92	1.69	1.80	1.69
225.0	2.59	2.59	2.48	2.48	2.37	2.26	2.26	2.14	2.14
247.5	2.37	2.37	2.14	2.14	2.14	2.03	1.92	1.92	1.80
270.0	2.26	2.14	2.14	2.14	2.14	2.03	2.03	1.92	1.92
292.5	2.48	2.37	2.26	2.26	2.14	2.14	2.03	1.92	1.92
315.0	2.71	2.71	2.59	2.59	2.48	2.37	2.37	2.26	2.26
337.5	2.26	2.26	2.26	2.14	2.03	2.03	1.92	1.80	1.69
360.0	2.14	2.14	2.03	2.03	2.03	1.92	1.92	1.80	1.80
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	1.80	1.69	1.69	1.69	1.58	1.58	1.58	1.47	1.47
22.5	1.69	1.69	1.69	1.69	1.58	1.58	1.47	1.47	1.35
45.0	1.80	1.69	1.69	1.58	1.58	1.47	1.35	1.35	1.35
67.5	1.58	1.58	1.47	1.47	1.35	1.35	1.35	1.24	1.24
90.0	1.58	1.47	1.47	1.35	1.35	1.35	1.35	1.24	1.24
112.5	1.69	1.58	1.47	1.47	1.47	1.47	1.35	1.35	1.24
135.0	1.69	1.69	1.58	1.58	1.47	1.47	1.35	1.35	1.35
157.5	1.58	1.58	1.58	1.58	1.47	1.47	1.47	1.35	1.35
180.0	1.69	1.58	1.58	1.58	1.58	1.58	1.47	1.47	1.47
202.5	1.58	1.58	1.58	1.47	1.47	1.47	1.47	1.35	1.24
225.0	2.03	1.92	1.92	1.80	1.80	1.69	1.58	1.58	1.47
247.5	1.80	1.69	1.69	1.58	1.58	1.47	1.47	1.35	1.35
270.0	1.92	1.80	1.80	1.80	1.69	1.69	1.58	1.58	1.58
292.5	1.80	1.80	1.69	1.69	1.58	1.47	1.47	1.47	1.35
315.0	2.14	2.03	1.92	1.92	1.80	1.80	1.69	1.58	1.47
337.5	1.80	1.69	1.58	1.58	1.58	1.47	1.47	1.47	1.47
360.0	1.80	1.69	1.69	1.69	1.58	1.58	1.58	1.47	1.47

Intensity data(cd)									Appendix Page: 25 Total:25		
C/ γ (°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0		
0.0	1.35	1.35	1.35	1.24	1.24	1.13	1.13	1.13	1.13		
22.5	1.47	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.13		
45.0	1.35	1.24	1.24	1.13	1.13	1.13	1.13	1.13	1.02		
67.5	1.24	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
90.0	1.24	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
112.5	1.24	1.24	1.24	1.13	1.24	1.13	1.13	1.13	1.13		
135.0	1.35	1.13	1.24	1.13	1.13	1.24	1.02	1.13	1.13		
157.5	1.35	1.24	1.24	1.24	1.24	1.24	1.13	1.13	1.13		
180.0	1.35	1.35	1.35	1.35	1.24	1.24	1.24	1.24	1.13		
202.5	1.35	1.24	1.24	1.13	1.24	1.13	1.13	1.13	1.13		
225.0	1.35	1.35	1.24	1.24	1.13	1.13	1.13	1.13	1.13		
247.5	1.35	1.24	1.24	1.13	1.13	1.13	1.13	1.13	1.13		
270.0	1.47	1.47	1.47	1.35	1.24	1.24	1.24	1.24	1.13		
292.5	1.24	1.35	1.24	1.24	1.24	1.13	1.13	1.13	1.13		
315.0	1.35	1.35	1.24	1.24	1.24	1.13	1.13	1.13	1.13		
337.5	1.35	1.24	1.35	1.24	1.24	1.13	1.13	1.13	1.13		
360.0	1.35	1.35	1.35	1.24	1.24	1.13	1.13	1.13	1.13		
C/ γ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0		
0.0	1.02	1.13	1.02	1.13	1.13	1.13	1.13	1.02	1.13		
22.5	1.02	1.02	1.13	1.13	1.13	1.02	1.13	1.13	1.13		
45.0	1.02	1.13	1.13	1.02	1.13	1.13	1.02	1.13	1.02		
67.5	1.13	1.13	1.13	1.13	1.13	1.02	1.13	1.13	1.13		
90.0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
112.5	1.13	1.13	1.13	1.02	1.13	1.13	1.13	1.13	1.13		
135.0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
157.5	1.13	1.13	1.02	1.13	1.13	1.13	1.13	1.13	1.13		
180.0	1.13	1.24	1.13	1.13	1.13	1.02	1.13	1.13	1.13		
202.5	1.13	1.02	1.13	1.02	1.13	1.13	1.13	1.24	1.13		
225.0	1.02	1.02	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
247.5	1.13	1.13	1.13	1.13	1.13	1.13	1.02	1.13	1.13		
270.0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
292.5	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
315.0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
337.5	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13		
360.0	1.02	1.13	1.02	1.13	1.13	1.13	1.13	1.02	1.13		
C/ γ (°)	180.0										
0.0	0.00										
22.5	0.00										
45.0	0.00										
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	0.00										
247.5	0.00										
270.0	0.00										
292.5	0.00										
315.0	0.00										
337.5	0.00										
360.0	0.00										