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Client:

LumCAT: B8908-TBK

Luminaire: INTERGRATED LED

Report No: BSR202210120401-9

Ballast type:

Test No: BSR202210120401-9

Voltage(V): 120.000

LampCAT:

Current(A): 0.095

Lamp flux(lm)

Power (W): 11.350

Number of Lamps: 0

PF: 0.990

Length(mm): 250

Width(mm): 250

Phm Type: C

Height(mm): 680

Photometric Results

Lumens(lm): 513.90, Luminous Efficacy(lm/W): 45.28

Central intensity(cd): 212.274, Maximum intensity(cd): 221.509

Angle of maximum intensity: C=247.5 γ =11.0

Beam Angle(50%Imax): [C0/180]Total=109.6

[C90/270]Total=111.1

Field angle(10%Imax): [C0/180]Total=151.5

[C90/270]Total=151.2

Maximum s/h(1/2): C0_180=62.24 C90_270=57.67

Maximum s/h(1/4): C0_180=60.74 C90_270=58.14

Up flux rate of LUM(%): 4.17%

Down flux rate of LUM(%): 95.84%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 72.076%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	212.274	0.000	0	0.00%	0.00%
1.0	212.345	0.203	0.203	0.04%	0.04%
2.0	212.500	0.610	0.813	0.12%	0.16%
3.0	212.796	1.017	1.83	0.20%	0.36%
4.0	213.092	1.426	3.256	0.28%	0.63%
5.0	213.487	1.835	5.091	0.36%	0.99%
6.0	213.896	2.246	7.337	0.44%	1.43%
7.0	213.818	2.655	9.992	0.52%	1.94%
8.0	210.801	3.039	13.031	0.59%	2.54%
9.0	206.783	3.384	16.415	0.66%	3.19%
10.0	198.811	3.670	20.085	0.71%	3.91%
11.0	176.938	3.754	23.84	0.73%	4.64%
12.0	147.473	3.546	27.386	0.69%	5.33%
13.0	123.781	3.219	30.605	0.63%	5.96%
14.0	103.790	2.913	33.518	0.57%	6.52%
15.0	92.878	2.700	36.218	0.53%	7.05%
16.0	87.683	2.646	38.864	0.51%	7.56%
17.0	92.955	2.813	41.677	0.55%	8.11%
18.0	99.434	3.172	44.849	0.62%	8.73%
19.0	105.975	3.574	48.423	0.70%	9.42%
20.0	112.756	4.003	52.426	0.78%	10.20%
21.0	122.202	4.512	56.938	0.88%	11.08%
22.0	129.328	5.055	61.992	0.98%	12.06%
23.0	133.988	5.525	67.517	1.08%	13.14%
24.0	137.639	5.939	73.456	1.16%	14.29%
25.0	137.921	6.266	79.722	1.22%	15.51%
26.0	137.667	6.505	86.227	1.27%	16.78%
27.0	137.498	6.732	92.959	1.31%	18.09%
28.0	137.498	6.962	99.921	1.35%	19.44%
29.0	136.356	7.165	107.086	1.39%	20.84%
30.0	135.095	7.329	114.415	1.43%	22.26%
31.0	133.720	7.481	121.896	1.46%	23.72%
32.0	132.148	7.617	129.513	1.48%	25.20%
33.0	130.914	7.750	137.263	1.51%	26.71%
34.0	129.145	7.870	145.133	1.53%	28.24%
35.0	127.806	7.980	153.113	1.55%	29.79%
36.0	126.072	8.084	161.196	1.57%	31.37%
37.0	124.070	8.158	169.355	1.59%	32.96%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	122.174	8.219	177.574	1.60%	34.55%
39.0	119.756	8.258	185.832	1.61%	36.16%
40.0	117.662	8.280	194.112	1.61%	37.77%
41.0	116.527	8.339	202.451	1.62%	39.40%
42.0	114.878	8.407	210.859	1.64%	41.03%
43.0	113.933	8.476	219.334	1.65%	42.68%
44.0	113.024	8.566	227.9	1.67%	44.35%
45.0	111.924	8.645	236.545	1.68%	46.03%
46.0	110.874	8.713	245.259	1.70%	47.73%
47.0	109.443	8.763	254.021	1.71%	49.43%
48.0	108.174	8.797	262.818	1.71%	51.14%
49.0	106.793	8.828	271.646	1.72%	52.86%
50.0	104.925	8.827	280.473	1.72%	54.58%
51.0	103.670	8.825	289.299	1.72%	56.30%
52.0	101.978	8.825	298.123	1.72%	58.01%
53.0	100.195	8.795	306.918	1.71%	59.72%
54.0	98.440	8.755	315.673	1.70%	61.43%
55.0	95.972	8.678	324.351	1.69%	63.12%
56.0	94.302	8.598	332.949	1.67%	64.79%
57.0	92.533	8.543	341.491	1.66%	66.45%
58.0	90.594	8.468	349.96	1.65%	68.10%
59.0	89.142	8.403	358.363	1.64%	69.73%
60.0	87.189	8.331	366.693	1.62%	71.36%
61.0	85.420	8.237	374.93	1.60%	72.96%
62.0	83.524	8.141	383.071	1.58%	74.54%
63.0	80.902	7.997	391.068	1.56%	76.10%
64.0	78.625	7.828	398.896	1.52%	77.62%
65.0	76.045	7.654	406.55	1.49%	79.11%
66.0	73.387	7.456	414.006	1.45%	80.56%
67.0	70.878	7.254	421.26	1.41%	81.97%
68.0	67.001	6.984	428.245	1.36%	83.33%
69.0	64.047	6.685	434.93	1.30%	84.63%
70.0	60.467	6.395	441.325	1.24%	85.88%
71.0	54.609	5.948	447.273	1.16%	87.04%
72.0	48.822	5.378	452.651	1.05%	88.08%
73.0	42.118	4.755	457.406	0.93%	89.01%
74.0	36.979	4.158	461.565	0.81%	89.82%
75.0	31.819	3.635	465.2	0.71%	90.52%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	25.454	3.040	468.24	0.59%	91.12%
77.0	21.718	2.515	470.755	0.49%	91.61%
78.0	17.919	2.122	472.877	0.41%	92.02%
79.0	15.353	1.788	474.664	0.35%	92.37%
80.0	14.021	1.584	476.248	0.31%	92.67%
81.0	12.597	1.439	477.687	0.28%	92.95%
82.0	11.765	1.321	479.008	0.26%	93.21%
83.0	11.187	1.248	480.256	0.24%	93.45%
84.0	10.616	1.188	481.444	0.23%	93.69%
85.0	10.193	1.136	482.58	0.22%	93.91%
86.0	9.622	1.083	483.663	0.21%	94.12%
87.0	9.220	1.031	484.694	0.20%	94.32%
88.0	8.832	0.989	485.683	0.19%	94.51%
89.0	8.339	0.941	486.624	0.18%	94.69%
90.0	7.994	0.895	487.519	0.17%	94.87%
91.0	7.676	0.859	488.379	0.17%	95.03%
92.0	7.423	0.828	489.206	0.16%	95.20%
93.0	7.197	0.801	490.007	0.16%	95.35%
94.0	6.964	0.775	490.782	0.15%	95.50%
95.0	6.816	0.753	491.535	0.15%	95.65%
96.0	6.675	0.736	492.272	0.14%	95.79%
97.0	6.485	0.717	492.989	0.14%	95.93%
98.0	6.337	0.697	493.686	0.14%	96.07%
99.0	6.196	0.680	494.365	0.13%	96.20%
100.0	6.069	0.663	495.029	0.13%	96.33%
101.0	5.956	0.648	495.677	0.13%	96.45%
102.0	5.808	0.632	496.309	0.12%	96.58%
103.0	5.724	0.617	496.926	0.12%	96.70%
104.0	5.590	0.603	497.53	0.12%	96.82%
105.0	5.484	0.588	498.117	0.11%	96.93%
106.0	5.393	0.575	498.692	0.11%	97.04%
107.0	5.259	0.560	499.252	0.11%	97.15%
108.0	5.153	0.544	499.797	0.11%	97.26%
109.0	5.068	0.531	500.328	0.10%	97.36%
110.0	4.977	0.519	500.847	0.10%	97.46%
111.0	4.885	0.506	501.354	0.10%	97.56%
112.0	4.779	0.493	501.847	0.10%	97.66%
113.0	4.695	0.480	502.327	0.09%	97.75%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	4.617	0.468	502.795	0.09%	97.84%
115.0	4.511	0.455	503.25	0.09%	97.93%
116.0	4.420	0.442	503.692	0.09%	98.01%
117.0	4.342	0.430	504.122	0.08%	98.10%
118.0	4.279	0.419	504.541	0.08%	98.18%
119.0	4.173	0.407	504.949	0.08%	98.26%
120.0	4.103	0.395	505.344	0.08%	98.34%
121.0	4.025	0.384	505.728	0.07%	98.41%
122.0	3.962	0.373	506.101	0.07%	98.48%
123.0	3.870	0.362	506.463	0.07%	98.55%
124.0	3.806	0.351	506.814	0.07%	98.62%
125.0	3.708	0.340	507.154	0.07%	98.69%
126.0	3.665	0.329	507.483	0.06%	98.75%
127.0	3.595	0.320	507.803	0.06%	98.81%
128.0	3.539	0.310	508.113	0.06%	98.87%
129.0	3.454	0.300	508.413	0.06%	98.93%
130.0	3.376	0.289	508.702	0.06%	98.99%
131.0	3.306	0.279	508.981	0.05%	99.04%
132.0	3.243	0.269	509.25	0.05%	99.10%
133.0	3.137	0.258	509.508	0.05%	99.15%
134.0	3.073	0.247	509.755	0.05%	99.19%
135.0	2.996	0.237	509.992	0.05%	99.24%
136.0	2.946	0.228	510.22	0.04%	99.28%
137.0	2.869	0.219	510.44	0.04%	99.33%
138.0	2.784	0.209	510.649	0.04%	99.37%
139.0	2.721	0.200	510.849	0.04%	99.41%
140.0	2.672	0.192	511.041	0.04%	99.44%
141.0	2.608	0.184	511.225	0.04%	99.48%
142.0	2.559	0.176	511.402	0.03%	99.51%
143.0	2.481	0.168	511.57	0.03%	99.55%
144.0	2.418	0.160	511.73	0.03%	99.58%
145.0	2.361	0.152	511.882	0.03%	99.61%
146.0	2.305	0.145	512.027	0.03%	99.64%
147.0	2.249	0.138	512.165	0.03%	99.66%
148.0	2.199	0.131	512.296	0.03%	99.69%
149.0	2.129	0.124	512.42	0.02%	99.71%
150.0	2.072	0.117	512.537	0.02%	99.74%
151.0	2.002	0.110	512.647	0.02%	99.76%

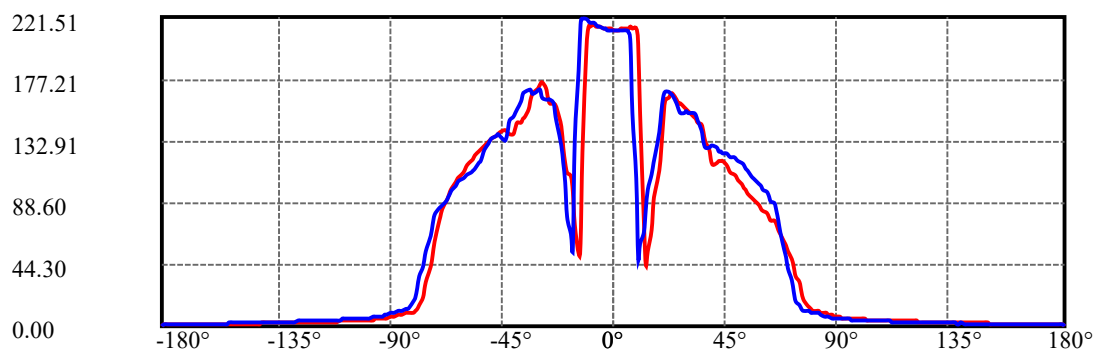
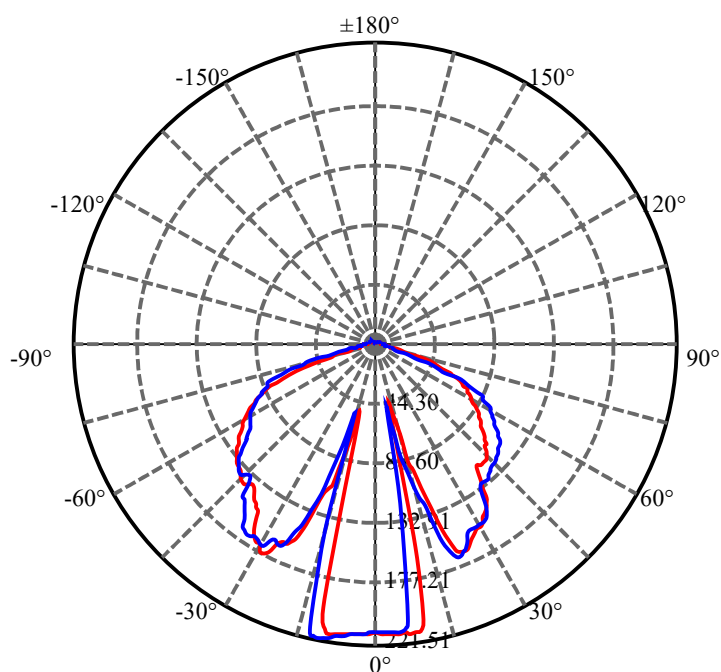
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	1.960	0.104	512.75	0.02%	99.78%
153.0	1.924	0.098	512.849	0.02%	99.80%
154.0	1.854	0.092	512.941	0.02%	99.81%
155.0	1.819	0.087	513.028	0.02%	99.83%
156.0	1.776	0.082	513.109	0.02%	99.85%
157.0	1.734	0.077	513.186	0.01%	99.86%
158.0	1.678	0.072	513.258	0.01%	99.88%
159.0	1.614	0.066	513.324	0.01%	99.89%
160.0	1.572	0.061	513.385	0.01%	99.90%
161.0	1.537	0.057	513.442	0.01%	99.91%
162.0	1.487	0.053	513.495	0.01%	99.92%
163.0	1.438	0.048	513.543	0.01%	99.93%
164.0	1.382	0.044	513.587	0.01%	99.94%
165.0	1.368	0.040	513.627	0.01%	99.95%
166.0	1.332	0.037	513.664	0.01%	99.95%
167.0	1.311	0.034	513.698	0.01%	99.96%
168.0	1.276	0.031	513.729	0.01%	99.97%
169.0	1.255	0.028	513.756	0.01%	99.97%
170.0	1.212	0.025	513.781	0.00%	99.98%
171.0	1.212	0.022	513.803	0.00%	99.98%
172.0	1.219	0.020	513.823	0.00%	99.99%
173.0	1.212	0.017	513.84	0.00%	99.99%
174.0	1.212	0.015	513.855	0.00%	99.99%
175.0	1.212	0.013	513.868	0.00%	99.99%
176.0	1.198	0.010	513.878	0.00%	100.00%
177.0	1.212	0.008	513.886	0.00%	100.00%
178.0	1.205	0.006	513.892	0.00%	100.00%
179.0	1.198	0.003	513.896	0.00%	100.00%
180.0	0.000	0.001	513.896	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	114.42	22.26%
0-40	194.11	37.77%
0-60	366.69	71.36%
0-90	487.52	94.87%
0-120	505.34	98.34%
0-180	513.90	100.00%
60-90	120.83	23.51%
90-120	17.82	3.47%
90-130	21.18	4.12%
90-150	25.02	4.87%
90-180	26.38	5.13%
0-65.61	411.12	80.00%

ZONAL LUMEN SUMMARY

0-10	20.09
10-20	32.34
20-30	61.99
30-40	79.70
40-50	86.36
50-60	86.22
60-70	74.63
70-80	34.92
80-90	11.27
90-100	7.51
100-110	5.82
110-120	4.50
120-130	3.36
130-140	2.34
140-150	1.50
150-160	0.85
160-170	0.40
170-180	0.11



C0/C180: ————

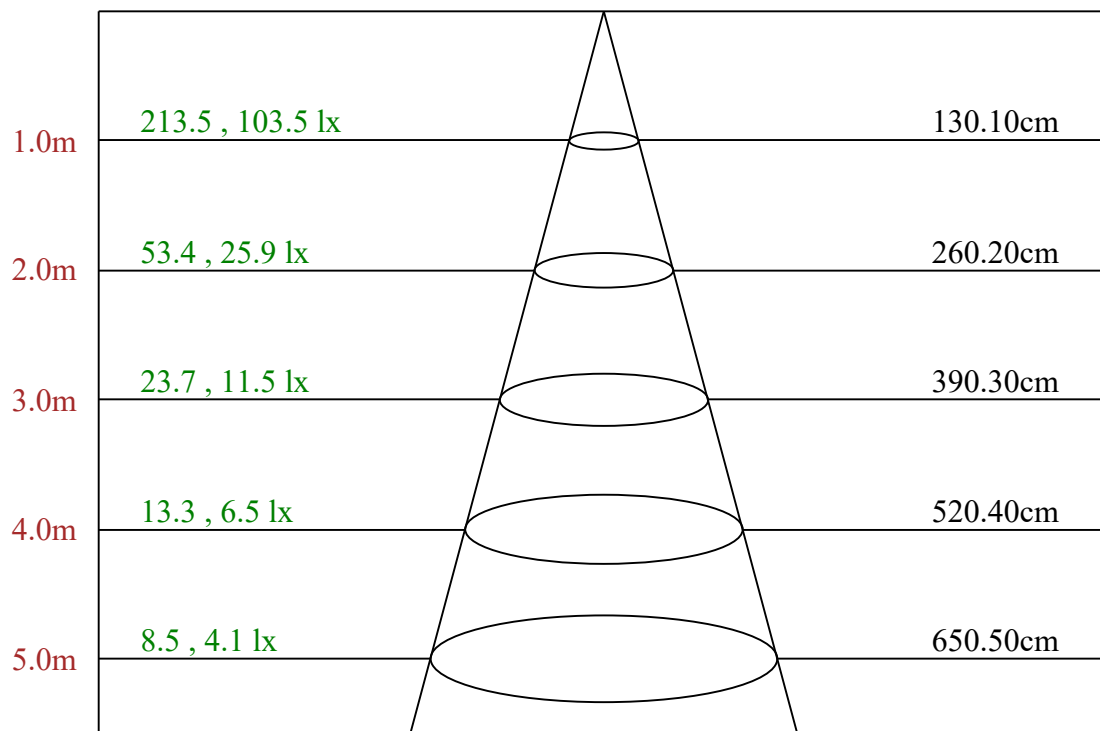
C90/C270: ————

Field angle(10%Imax):C0/180Left:85.1 Right:67.1

:C90/270Left:67.1 Right:86.1

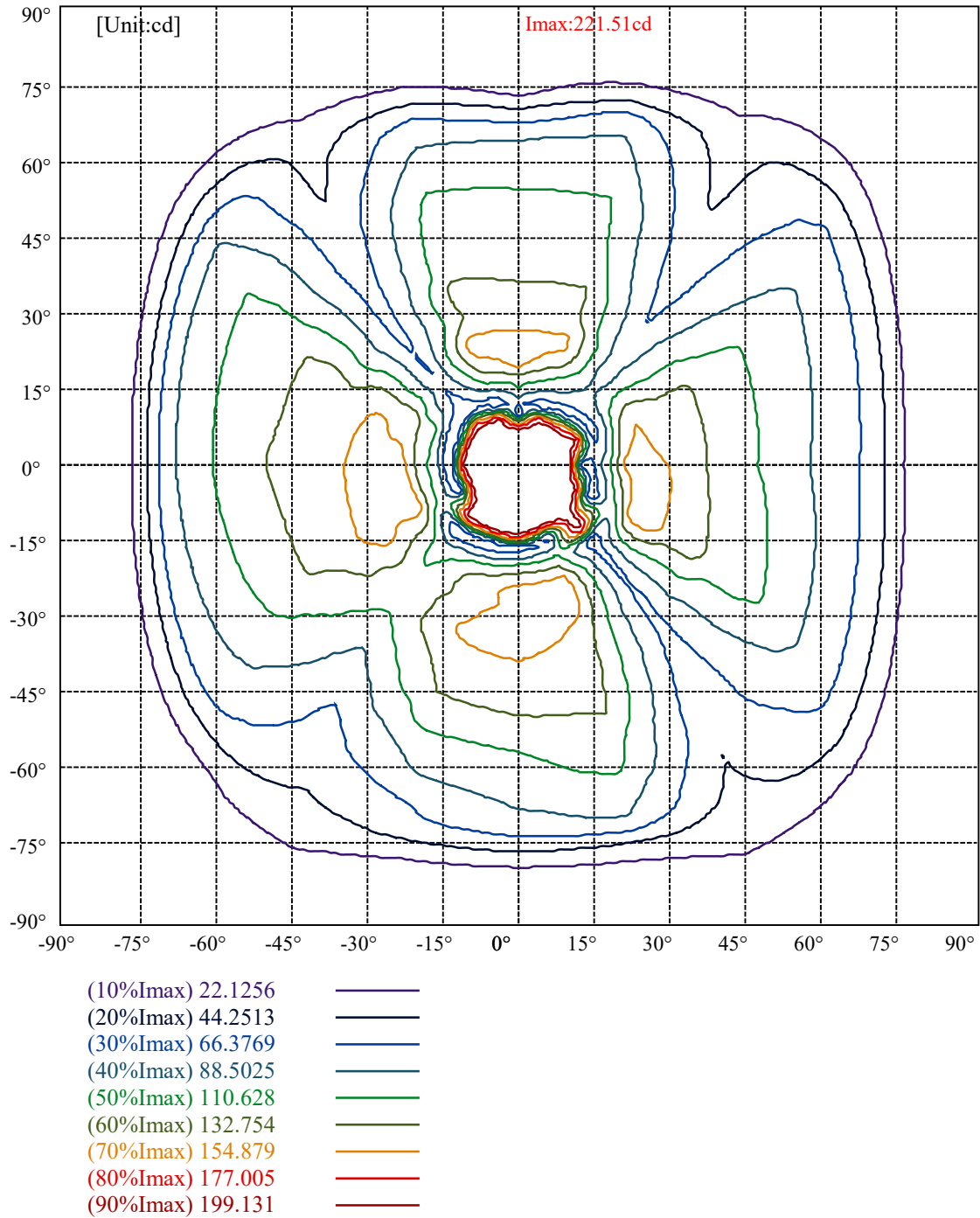
Beam Angle(50%Imax):C0/180Left:70.5 Right:39.5

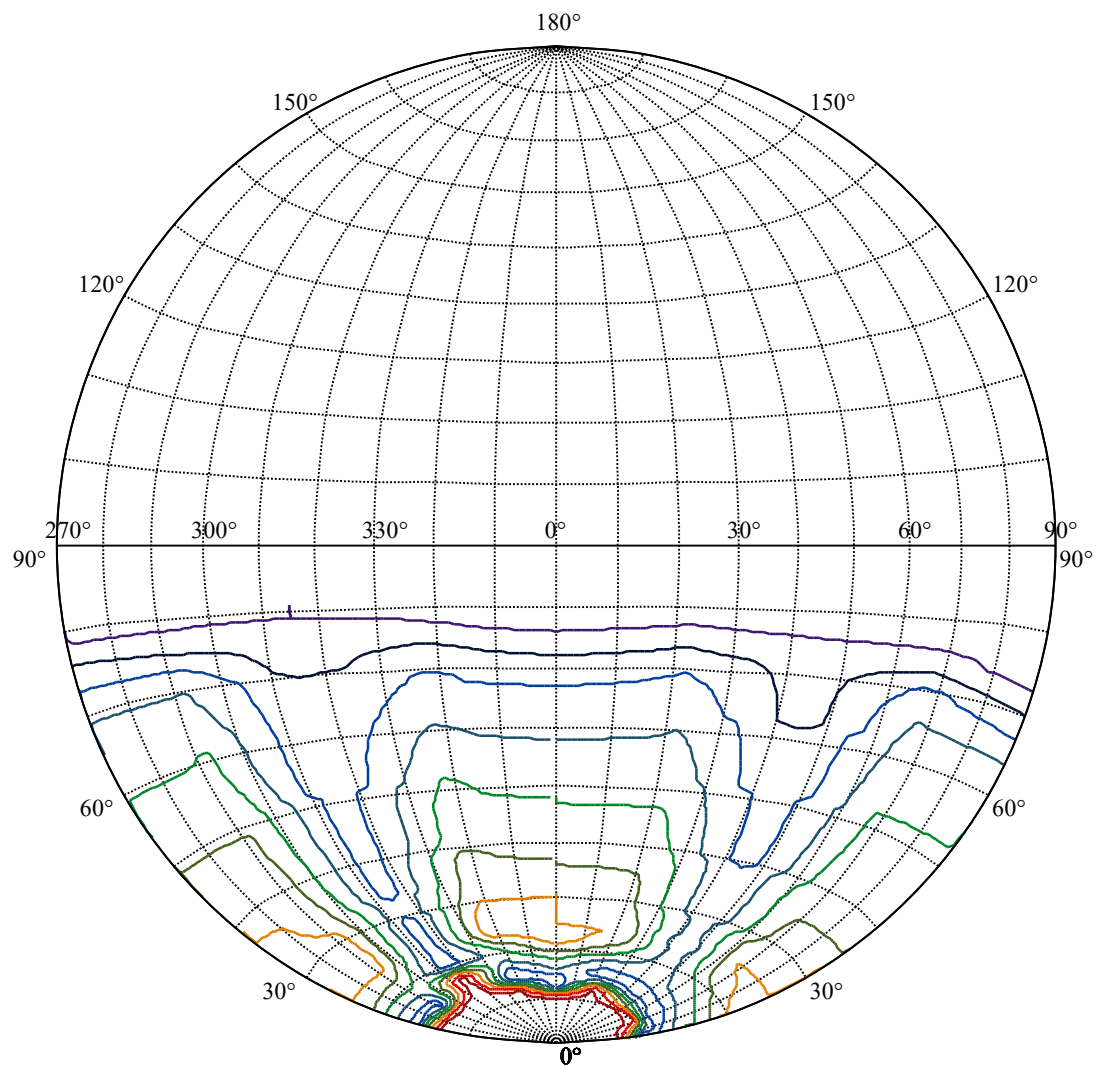
:C90/270Left:46.4 Right:68.4



Max , Ave

Beam angle of C247.5 plane 66.09





House

[Unit:cd]

Road

Imax:221.51

(10%Imax) 22.5569

(20%Imax) 45.1138

(30%Imax) 67.6706

(40%Imax) 90.2275

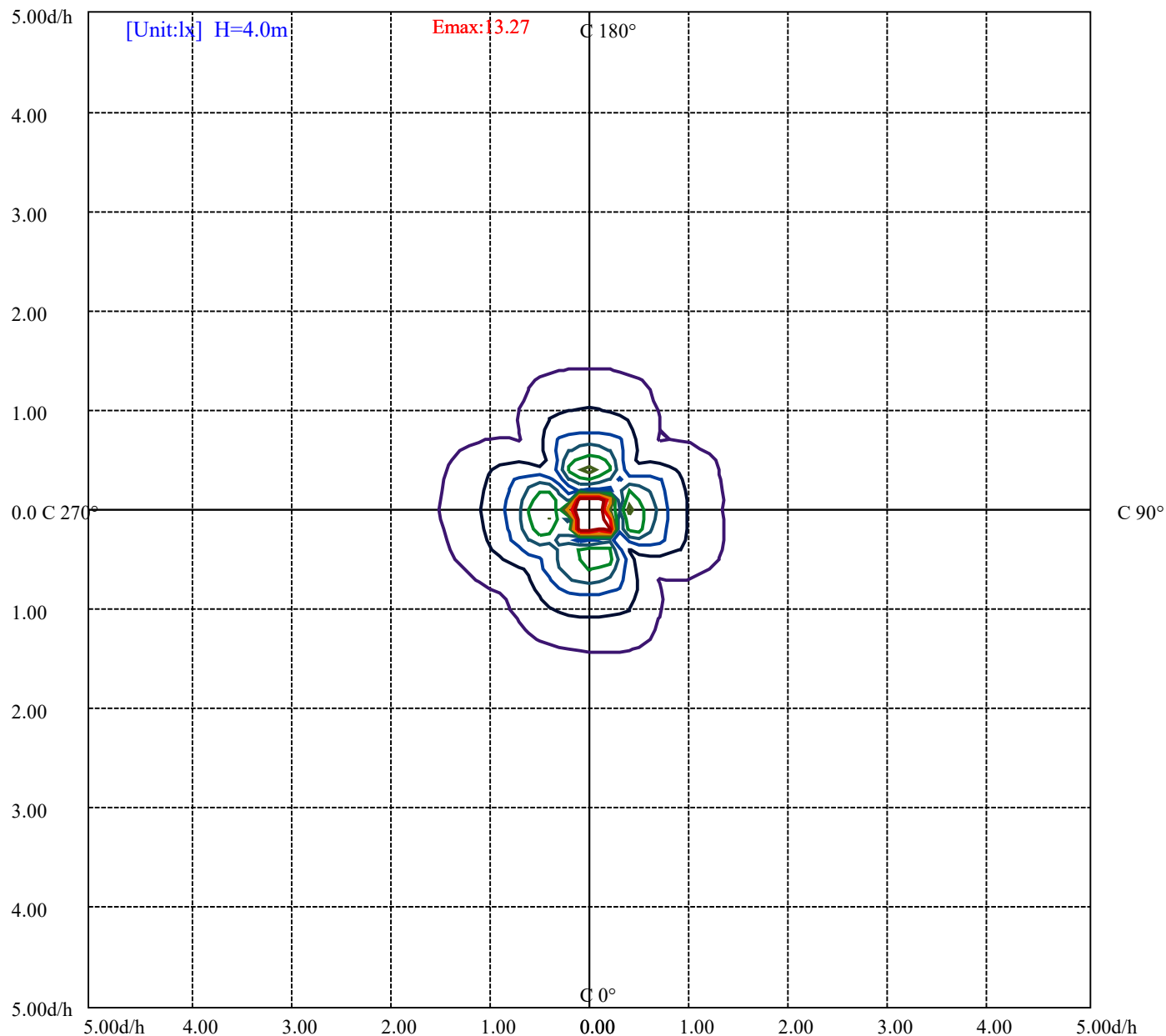
(50%Imax) 112.784

(60%Imax) 135.341

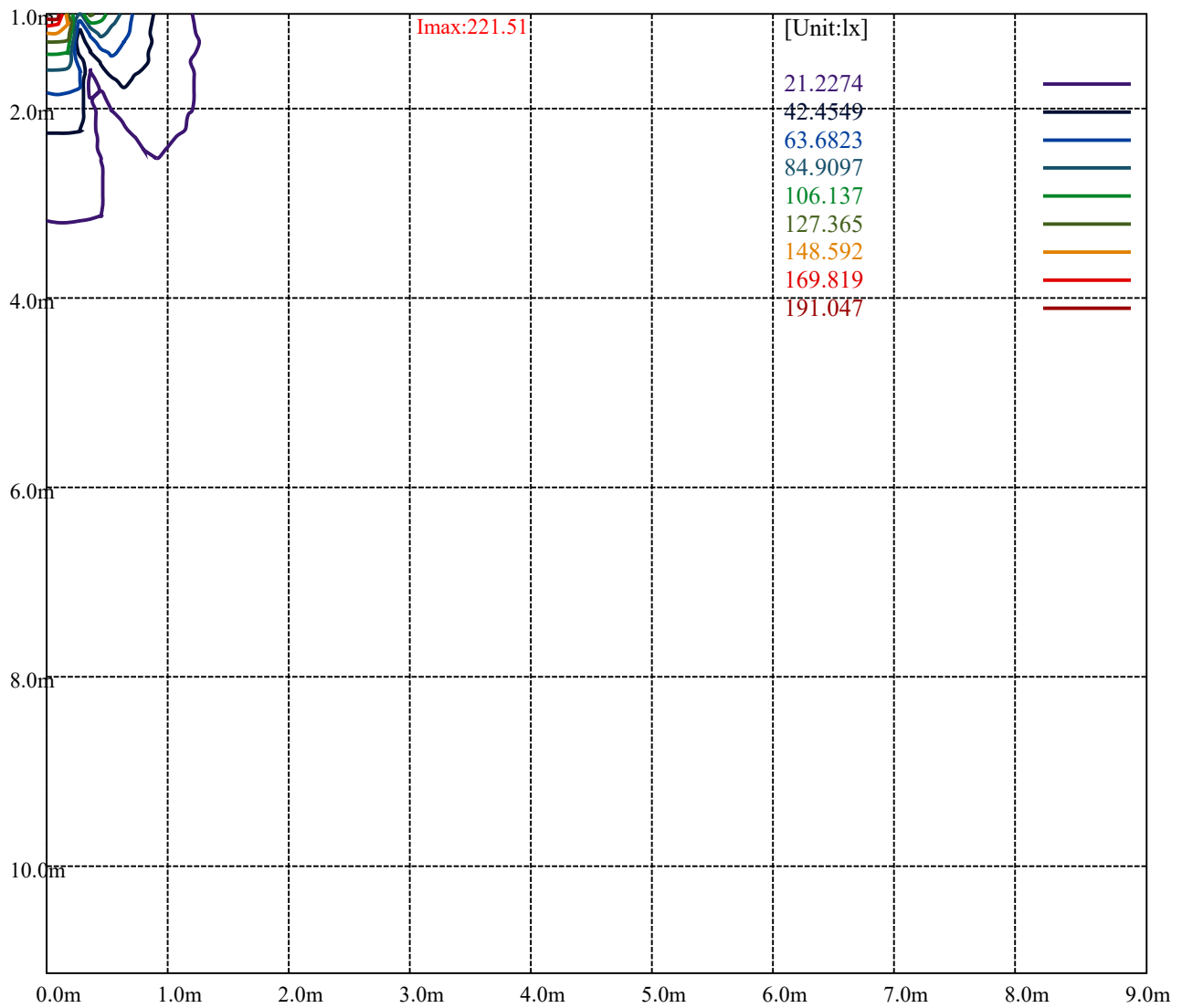
(70%Imax) 157.898

(80%Imax) 180.455

(90%Imax) 203.012



(10%Emax)	1.326719	—
(20%Emax)	2.653431	—
(30%Emax)	3.98015	—
(40%Emax)	5.306869	—
(50%Emax)	6.633563	—
(60%Emax)	7.960312	—
(70%Emax)	9.287	—
(80%Emax)	10.61375	—
(90%Emax)	11.94044	—



Luminance Table

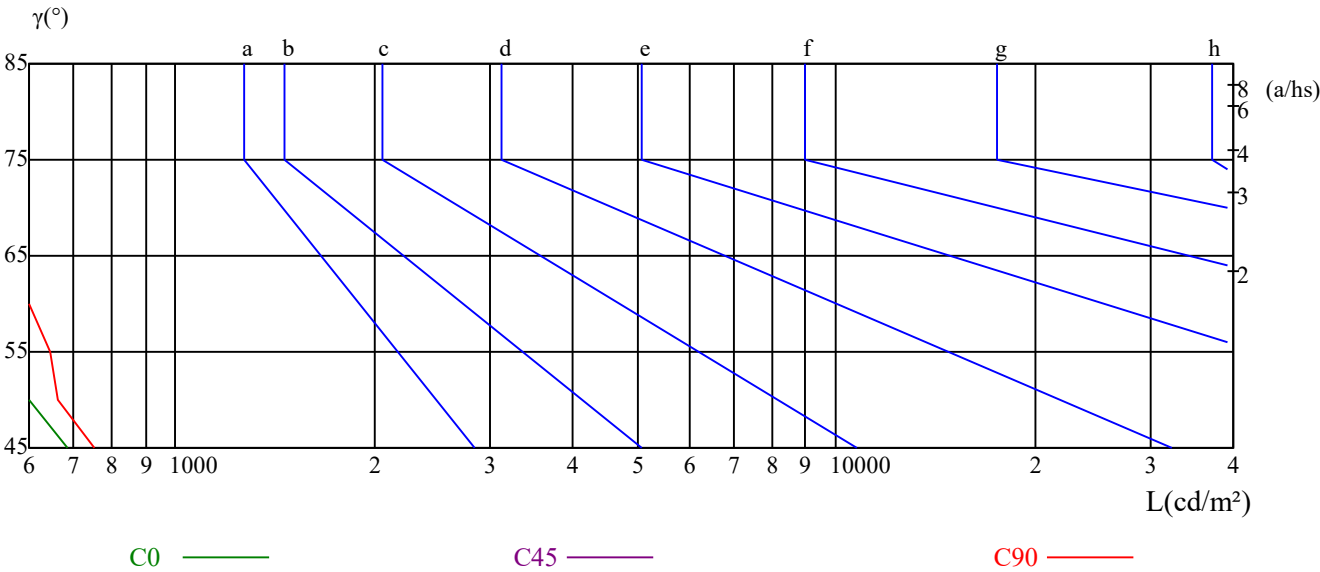
γ	45	50	55	60	65	70	75	80	85
C0	686	596	515	442	375	311	125	63	65
C45	263	251	194	188	138	137	91	46	46
C90	755	662	644	569	437	249	63	63	65

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3202	3202	1601	1743	2092	1743	2070	2070	2070

Glare Table

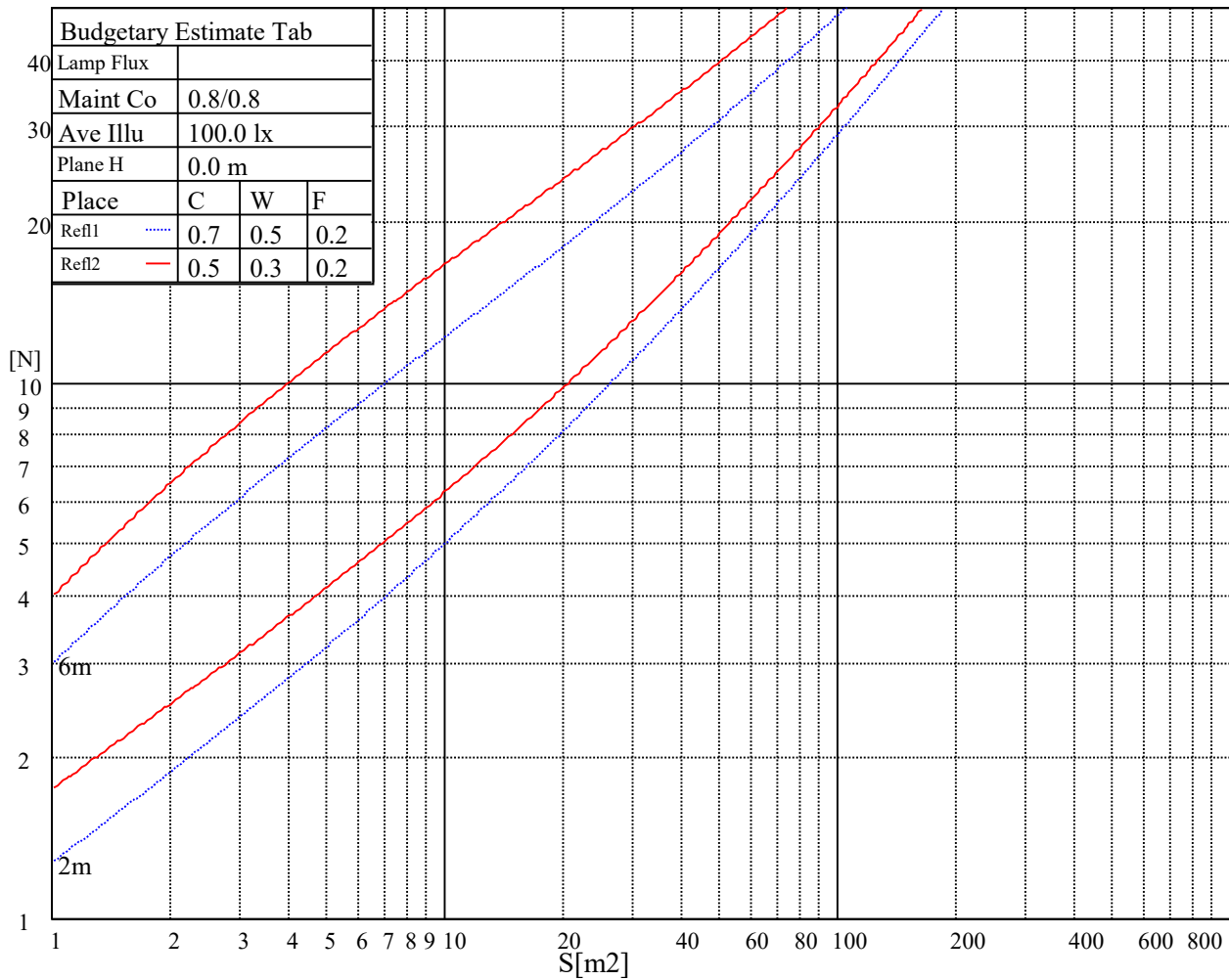
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

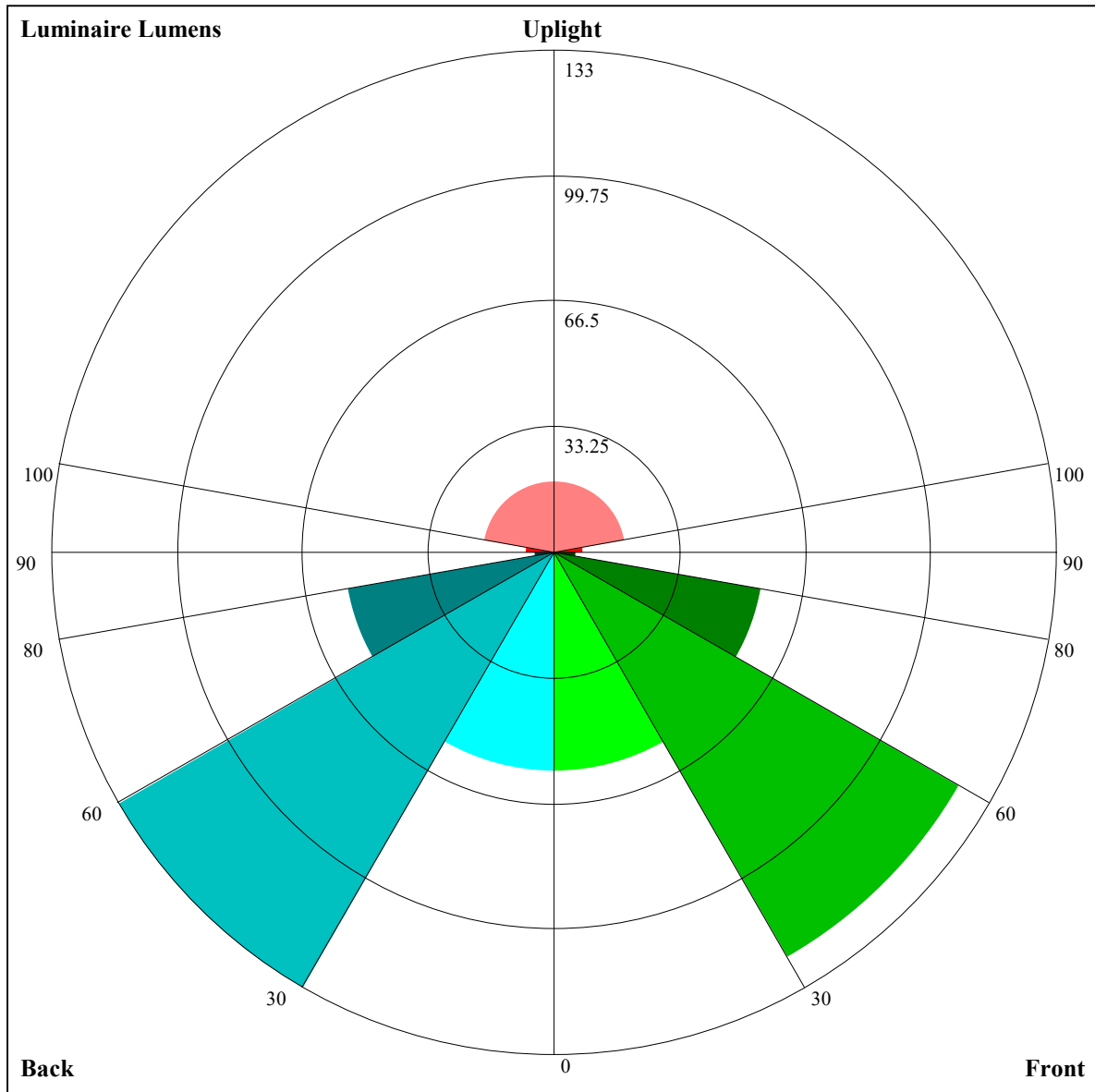


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	8.75	10.32	9.18	10.74	11.18	9.48	11.06	9.92	11.48	11.92
	3H	10.62	12.06	11.08	12.50	12.96	11.15	12.59	11.61	13.03	13.49
	4H	10.95	12.30	11.42	12.75	13.24	11.24	12.59	11.71	13.04	13.52
	6H	11.01	12.27	11.49	12.73	13.24	11.25	12.50	11.73	12.97	13.48
	8H	10.99	12.20	11.48	12.68	13.20	11.21	12.43	11.70	12.90	13.42
	12H	10.97	12.14	11.47	12.62	13.15	11.18	12.35	11.67	12.83	13.36
4H	2H	9.11	10.46	9.58	10.91	11.39	9.74	11.10	10.21	11.55	12.03
	3H	11.17	12.33	11.66	12.81	13.34	11.62	12.77	12.11	13.25	13.78
	4H	11.67	12.70	12.18	13.21	13.76	11.83	12.86	12.34	13.37	13.92
	6H	11.74	12.66	12.28	13.19	13.75	11.83	12.75	12.37	13.28	13.84
	8H	11.77	12.63	12.32	13.16	13.74	11.84	12.70	12.39	13.24	13.81
	12H	11.81	12.60	12.36	13.13	13.74	11.86	12.65	12.41	13.18	13.79
8H	4H	11.72	12.58	12.26	13.11	13.68	11.86	12.72	12.40	13.25	13.83
	6H	11.82	12.54	12.39	13.09	13.70	11.89	12.61	12.45	13.16	13.77
	8H	11.93	12.56	12.52	13.15	13.75	11.97	12.60	12.56	13.19	13.79
	12H	12.00	12.53	12.59	13.12	13.74	12.01	12.54	12.60	13.13	13.75
12H	4H	11.70	12.50	12.25	13.03	13.64	11.85	12.64	12.40	13.17	13.78
	6H	11.86	12.49	12.44	13.08	13.68	11.93	12.55	12.51	13.14	13.74
	8H	11.94	12.47	12.53	13.06	13.68	11.98	12.51	12.57	13.10	13.72
Variation with the observer position at spacings:											
S = 1.0H		0.7/-0.5					0.5/-0.5				
S = 1.5H		1.4/-0.9					1.0/-1.0				
S = 2.0H		2.1/-1.8					1.5/-1.1				
Standard tables:		BK2					BK2				
Uncorrected UGR		-6.1					-6.5				

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	1.09	1.09	1.09	1.03	1.03	1.03	0.98	0.98	0.98	0.96
1	1.02	0.98	0.94	1.00	0.95	0.92	0.94	0.91	0.88	0.90	0.87	0.85	0.86	0.83	0.81	0.79
2	0.88	0.81	0.75	0.86	0.80	0.74	0.82	0.76	0.72	0.78	0.73	0.69	0.74	0.71	0.67	0.65
3	0.77	0.68	0.62	0.75	0.67	0.61	0.71	0.65	0.59	0.68	0.62	0.58	0.65	0.60	0.56	0.54
4	0.68	0.59	0.52	0.66	0.58	0.51	0.63	0.56	0.50	0.60	0.54	0.49	0.57	0.52	0.48	0.45
5	0.60	0.51	0.44	0.59	0.50	0.43	0.56	0.48	0.43	0.54	0.47	0.42	0.51	0.46	0.41	0.39
6	0.54	0.45	0.38	0.53	0.44	0.38	0.50	0.43	0.37	0.48	0.41	0.36	0.46	0.40	0.36	0.33
7	0.49	0.40	0.33	0.48	0.39	0.33	0.46	0.38	0.32	0.44	0.37	0.32	0.42	0.36	0.31	0.29
8	0.44	0.36	0.30	0.43	0.35	0.29	0.42	0.34	0.29	0.40	0.33	0.28	0.39	0.33	0.28	0.26
9	0.40	0.32	0.26	0.40	0.32	0.26	0.38	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.25	0.23
10	0.37	0.29	0.24	0.37	0.29	0.24	0.35	0.28	0.23	0.34	0.28	0.23	0.33	0.27	0.23	0.21



Luminaire Lumens:

FL=57.84,FM=123.94,FH=55.46,FVH=5.8

BL=57.9,BM=133,BH=55.56,BVH=5.44

UL=7.52,UH=18.87

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	212.27	212.37	212.49	212.82	212.94	213.16	213.50	213.95	213.73
22.5	212.27	212.37	212.26	212.15	212.15	212.37	212.49	212.71	213.05
45.0	212.27	212.03	211.92	211.92	212.15	212.49	212.82	212.94	211.81
67.5	212.27	212.15	212.03	211.81	211.81	211.92	212.15	212.03	209.44
90.0	212.27	211.70	211.70	212.03	212.26	212.26	210.34	202.22	152.60
112.5	212.27	212.15	212.15	211.92	212.15	212.37	212.94	213.05	211.58
135.0	212.27	212.26	212.37	212.60	212.71	213.05	213.50	214.18	214.63
157.5	212.27	212.03	212.26	212.60	212.82	213.28	213.73	214.06	214.63
180.0	212.27	212.60	212.94	213.28	213.73	213.95	214.40	214.97	215.64
202.5	212.27	213.05	213.50	213.95	214.40	214.97	215.76	216.32	215.64
225.0	212.27	212.49	212.60	213.16	213.73	214.29	215.19	215.98	216.88
247.5	212.27	213.05	213.61	214.40	214.85	215.76	216.66	217.34	218.58
270.0	212.27	212.15	212.49	213.05	213.61	214.18	215.19	215.98	216.88
292.5	212.27	212.82	213.28	213.73	214.18	214.85	215.53	216.43	217.67
315.0	212.27	212.15	212.26	212.60	213.05	213.39	214.06	214.52	215.19
337.5	212.27	212.15	212.15	212.71	212.94	213.50	214.06	214.40	214.85
360.0	212.27	212.37	212.49	212.82	212.94	213.16	213.50	213.95	213.73
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	212.60	202.56	152.94	74.44	44.44	53.01	69.14	89.10	97.78
22.5	213.50	213.73	213.16	208.43	177.97	107.26	70.04	54.59	67.90
45.0	210.00	198.50	158.91	126.77	76.02	56.84	60.11	69.93	74.10
67.5	199.97	181.81	104.10	56.96	55.60	66.66	81.99	93.95	104.10
90.0	105.45	49.06	58.87	68.01	84.25	97.90	108.05	117.52	123.61
112.5	205.38	193.99	124.29	62.37	52.67	62.48	80.19	89.89	110.98
135.0	213.61	208.88	190.04	165.79	101.28	57.41	52.44	55.38	57.29
157.5	214.18	210.79	183.39	110.87	57.41	51.88	59.32	84.81	105.79
180.0	215.31	213.61	196.36	124.97	59.21	52.33	73.08	95.98	107.71
202.5	213.28	198.95	138.05	60.57	52.90	67.78	85.04	100.27	107.03
225.0	217.79	218.24	219.03	218.24	215.19	201.43	176.62	102.52	54.47
247.5	219.25	220.38	221.51	221.40	216.21	180.57	103.87	56.50	56.62
270.0	217.90	218.58	219.70	219.82	216.21	183.05	134.10	56.17	66.43
292.5	218.35	219.37	219.70	215.98	190.04	114.93	62.26	64.51	74.89
315.0	216.32	216.66	217.90	219.03	220.27	221.40	221.40	219.37	211.70
337.5	215.64	215.87	213.05	205.94	160.83	85.72	48.38	52.44	66.88
360.0	212.60	202.56	152.94	74.44	44.44	53.01	69.14	89.10	97.78
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	111.21	126.43	145.15	160.38	163.65	166.24	166.02	162.86	160.27
22.5	78.16	98.35	114.25	127.45	139.06	146.39	153.05	151.02	146.85
45.0	79.40	82.33	83.35	82.45	79.96	76.58	73.08	72.97	75.00
67.5	108.72	116.73	125.98	137.37	146.73	150.91	156.66	158.24	156.88
90.0	138.27	153.05	163.31	167.71	167.71	166.02	164.67	159.82	155.42
112.5	118.09	128.35	135.45	143.35	151.47	155.76	162.30	164.10	160.72
135.0	61.02	62.71	63.50	65.75	66.88	65.87	64.51	64.51	64.40
157.5	116.39	119.78	122.15	130.94	145.15	148.76	149.55	148.54	147.41
180.0	110.53	117.07	128.12	142.45	154.29	158.46	160.15	160.27	163.20
202.5	118.20	129.25	144.59	161.28	164.89	163.20	161.28	160.60	159.25
225.0	53.57	66.99	81.43	90.68	96.66	99.14	101.17	104.55	108.39
247.5	68.01	85.27	102.07	117.86	124.40	133.09	141.77	142.79	143.80
270.0	78.84	103.08	116.96	129.48	143.24	150.00	159.14	162.86	162.97
292.5	93.61	108.72	119.44	131.06	137.82	153.16	161.73	164.10	167.03
315.0	173.58	99.36	54.59	52.56	56.62	57.97	58.54	58.20	59.10
337.5	83.35	98.12	103.76	114.48	130.72	152.26	168.61	171.32	172.00
360.0	111.21	126.43	145.15	160.38	163.65	166.24	166.02	162.86	160.27

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	159.03	157.11	155.19	154.06	152.37	150.23	147.97	145.49	143.80		
22.5	142.67	140.87	137.37	135.68	135.57	135.57	135.23	134.89	134.44		
45.0	76.69	75.57	73.54	72.97	72.52	71.84	71.05	69.81	69.14		
67.5	154.74	153.84	146.39	140.42	138.05	135.91	135.34	134.89	134.78		
90.0	152.82	152.71	153.50	153.39	153.39	152.82	151.36	146.96	140.53		
112.5	153.16	148.09	138.95	133.76	131.84	133.09	134.55	135.79	137.48		
135.0	63.95	63.72	63.95	63.72	62.71	61.47	60.45	59.78	59.32		
157.5	149.44	150.68	151.13	151.02	149.33	145.27	141.88	136.58	133.99		
180.0	170.30	174.82	173.46	170.08	168.95	166.92	161.96	155.53	150.12		
202.5	163.42	169.85	173.24	172.00	168.27	164.21	160.27	154.97	152.82		
225.0	110.08	110.75	112.22	113.35	112.67	110.53	109.63	110.87	113.35		
247.5	142.00	141.77	145.83	148.31	150.91	152.37	154.40	155.19	154.63		
270.0	162.07	163.76	168.73	168.84	167.37	167.03	168.73	169.18	167.71		
292.5	167.94	167.37	165.34	163.54	160.04	155.53	152.37	149.66	148.31		
315.0	61.02	61.47	61.69	62.26	63.27	63.50	62.93	61.47	59.89		
337.5	170.64	167.60	161.17	158.12	152.26	148.09	146.51	145.27	144.59		
360.0	159.03	157.11	155.19	154.06	152.37	150.23	147.97	145.49	143.80		
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	139.06	132.18	126.54	118.54	116.17	117.30	118.54	118.42	117.75		
22.5	133.65	131.62	129.14	126.32	123.84	122.82	120.23	118.99	118.20		
45.0	66.88	64.96	64.06	62.82	61.92	60.90	59.21	58.20	56.73		
67.5	134.55	132.63	130.15	127.90	125.19	122.93	121.24	120.00	119.33		
90.0	132.63	128.57	128.57	129.36	128.91	127.45	125.64	124.97	124.18		
112.5	138.27	137.03	132.97	128.24	125.19	124.06	124.06	124.18	123.50		
135.0	59.10	58.99	58.87	58.54	58.08	57.75	57.63	57.63	57.07		
157.5	133.09	134.10	136.58	138.50	138.84	138.72	137.26	136.13	135.12		
180.0	148.09	146.51	145.38	141.77	137.60	137.37	139.06	140.53	140.64		
202.5	149.78	145.94	144.25	141.77	139.51	138.16	136.58	136.02	134.89		
225.0	114.25	113.24	108.95	105.23	102.30	100.83	97.11	93.95	92.71		
247.5	152.48	150.23	147.63	144.48	142.11	140.42	138.84	137.82	135.57		
270.0	165.91	160.49	156.09	152.48	149.55	147.86	138.50	133.88	133.65		
292.5	144.70	143.46	141.54	141.09	140.75	140.75	140.19	139.40	137.48		
315.0	60.00	61.35	61.81	61.02	60.57	60.45	60.68	59.89	58.99		
337.5	144.70	143.80	142.22	138.05	132.07	126.66	123.27	122.93	122.60		
360.0	139.06	132.18	126.54	118.54	116.17	117.30	118.54	118.42	117.75		
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	115.94	112.90	110.30	109.18	107.03	104.66	101.96	99.25	97.33		
22.5	116.62	114.81	112.67	110.53	109.29	107.26	105.68	104.21	102.63		
45.0	55.49	54.70	54.02	53.57	53.12	52.22	51.66	50.53	49.17		
67.5	117.97	116.73	115.72	114.93	114.48	114.14	113.80	113.12	111.99		
90.0	123.39	122.71	121.24	120.57	119.33	118.20	117.30	115.49	113.46		
112.5	122.71	121.92	121.36	120.90	120.57	119.55	118.65	117.07	115.15		
135.0	56.05	55.72	54.93	54.02	53.01	51.99	51.32	50.75	50.41		
157.5	133.42	132.41	129.70	127.90	126.43	125.53	124.40	123.39	122.15		
180.0	139.18	137.60	135.79	134.33	133.76	131.73	129.93	128.24	126.88		
202.5	134.10	132.07	128.80	127.11	123.95	122.15	121.36	119.10	116.39		
225.0	89.33	86.96	84.25	81.54	79.85	76.69	74.89	73.76	72.63		
247.5	134.21	133.42	132.07	130.38	126.43	121.81	121.24	119.10	117.30		
270.0	136.02	137.37	136.47	134.44	133.20	130.04	127.00	122.93	118.31		
292.5	136.36	136.24	136.47	136.02	135.12	133.54	132.75	130.94	128.57		
315.0	57.97	56.50	55.60	54.81	54.25	52.67	51.54	50.53	49.74		
337.5	122.03	121.92	121.69	120.57	118.87	116.62	115.27	113.24	110.98		
360.0	115.94	112.90	110.30	109.18	107.03	104.66	101.96	99.25	97.33		

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	95.53	92.71	91.13	88.76	86.39	84.36	81.99	80.87	78.61
22.5	101.51	99.36	98.01	96.54	94.40	92.60	90.57	88.54	87.18
45.0	48.05	47.03	46.58	45.56	44.66	43.87	42.52	41.28	40.15
67.5	111.43	109.74	107.37	106.24	104.33	102.97	100.94	98.91	98.24
90.0	110.87	107.71	106.13	103.99	102.07	100.27	98.12	96.66	92.93
112.5	114.03	111.54	108.95	106.24	103.08	100.94	98.24	95.75	94.17
135.0	49.96	49.40	49.17	48.38	46.81	46.13	44.66	43.20	41.73
157.5	121.24	119.66	117.63	115.94	114.03	112.90	110.87	108.39	105.45
180.0	124.63	122.37	120.23	118.54	115.49	113.24	110.75	107.82	106.13
202.5	113.69	110.19	108.72	106.36	103.99	101.84	98.57	97.33	94.63
225.0	71.73	69.14	66.88	64.96	62.82	61.02	59.66	58.20	57.41
247.5	111.54	106.36	103.87	100.72	98.57	96.21	93.72	92.26	89.89
270.0	117.07	113.46	111.21	109.63	108.39	107.48	106.24	104.44	102.97
292.5	125.87	122.15	120.34	118.09	116.62	116.17	115.27	114.14	111.32
315.0	49.51	49.40	49.40	49.29	49.29	49.40	49.17	48.38	47.93
337.5	108.39	105.34	103.20	101.28	98.57	96.88	93.72	90.57	87.63
360.0	95.53	92.71	91.13	88.76	86.39	84.36	81.99	80.87	78.61
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	76.24	75.34	72.29	69.36	65.87	60.79	58.20	53.01	47.71
22.5	84.70	82.78	80.42	78.05	76.47	73.08	69.02	66.99	61.81
45.0	38.91	38.23	37.22	36.32	35.64	34.62	33.95	32.48	30.90
67.5	96.43	94.29	92.14	89.66	86.39	82.90	77.26	72.63	61.02
90.0	89.33	87.41	82.78	75.90	66.77	55.04	49.74	41.39	33.38
112.5	91.24	88.54	85.83	83.12	81.32	74.55	67.90	63.05	54.14
135.0	40.26	39.47	38.57	37.78	36.88	35.53	34.17	32.48	29.66
157.5	102.41	99.14	96.66	93.84	92.03	87.75	83.46	76.24	65.64
180.0	102.75	99.59	96.21	92.48	89.21	84.25	77.82	72.63	60.57
202.5	89.21	87.30	83.80	80.64	77.48	73.20	71.05	65.87	59.10
225.0	55.72	54.14	52.78	51.43	50.64	48.38	46.58	45.45	42.86
247.5	86.62	81.77	77.71	73.76	70.26	66.99	65.98	64.51	61.92
270.0	100.15	97.11	94.40	91.58	89.89	86.73	85.27	84.02	79.17
292.5	109.63	105.34	102.30	99.81	97.22	93.72	92.26	89.89	85.27
315.0	46.81	45.34	44.32	43.65	43.31	42.41	41.39	39.93	38.35
337.5	84.02	82.22	79.29	76.81	74.66	72.07	70.72	66.88	62.26
360.0	76.24	75.34	72.29	69.36	65.87	60.79	58.20	53.01	47.71
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	42.29	35.19	31.24	24.81	19.40	14.89	13.08	12.07	11.50
22.5	55.83	49.29	43.08	39.25	31.24	24.59	19.17	15.68	14.66
45.0	28.99	25.83	23.23	20.64	17.59	16.13	14.10	12.97	12.29
67.5	51.09	42.18	34.29	29.55	21.32	16.02	13.31	12.52	12.18
90.0	24.14	17.82	15.11	12.52	11.39	11.28	10.83	10.26	9.93
112.5	43.99	36.09	28.31	24.02	17.14	13.65	12.52	11.96	11.73
135.0	27.74	24.25	20.98	18.05	14.77	13.53	12.29	11.73	11.17
157.5	58.87	47.37	38.91	30.45	21.54	16.24	13.53	12.63	12.29
180.0	50.87	42.63	34.40	29.44	20.64	15.34	12.18	10.94	10.26
202.5	51.43	42.75	38.69	28.31	19.74	17.48	12.97	11.73	11.28
225.0	40.94	39.02	37.44	36.32	33.72	30.56	26.84	22.90	20.75
247.5	57.75	51.32	48.05	42.63	33.27	30.45	22.78	17.82	15.11
270.0	72.63	64.51	56.17	51.43	42.75	35.30	27.74	21.20	17.93
292.5	78.27	66.32	59.66	46.35	36.99	32.37	25.04	19.06	15.34
315.0	37.11	35.98	34.85	34.40	33.27	31.47	28.31	24.81	23.01
337.5	59.21	53.35	47.26	40.94	32.48	28.20	21.99	17.37	14.89
360.0	42.29	35.19	31.24	24.81	19.40	14.89	13.08	12.07	11.50

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	10.83	10.49	10.04	9.70	9.02	8.12	7.78	6.88	6.43		
22.5	13.42	12.74	12.29	11.62	11.17	10.49	9.81	9.47	8.91		
45.0	11.50	11.05	10.49	10.04	9.47	9.02	8.80	8.46	8.23		
67.5	11.62	10.94	10.60	10.15	9.70	9.14	8.68	8.46	8.12		
90.0	9.36	9.02	8.35	7.44	6.77	6.20	6.09	5.75	5.53		
112.5	11.28	10.94	10.49	10.04	9.70	9.14	8.68	8.46	8.01		
135.0	10.71	10.38	9.93	9.25	9.02	8.68	8.35	8.12	7.89		
157.5	11.73	11.39	10.94	10.38	10.04	9.36	8.80	8.35	7.89		
180.0	9.81	9.47	9.14	8.68	8.35	7.89	7.33	6.99	6.32		
202.5	10.83	10.49	10.26	9.93	9.59	9.02	8.91	8.46	7.89		
225.0	16.35	13.65	12.29	11.62	11.17	10.71	10.26	10.04	9.47		
247.5	13.87	13.53	13.08	12.52	12.07	11.50	11.17	10.49	9.81		
270.0	13.87	12.52	11.84	11.39	10.94	10.49	10.04	9.93	9.36		
292.5	13.42	12.97	12.41	11.96	11.62	11.05	10.83	10.38	9.93		
315.0	19.17	15.34	14.21	13.08	12.74	11.73	11.28	10.94	10.26		
337.5	13.76	13.31	12.63	12.07	11.73	11.39	10.71	10.15	9.36		
360.0	10.83	10.49	10.04	9.70	9.02	8.12	7.78	6.88	6.43		
C/ γ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0		
0.0	6.20	6.09	5.86	5.64	5.41	5.41	5.30	5.08	4.96		
22.5	8.46	8.12	7.89	7.67	7.33	7.11	7.11	6.88	6.77		
45.0	8.12	7.89	7.67	7.44	7.33	7.22	6.99	6.88	6.65		
67.5	7.78	7.56	7.33	7.11	6.88	6.65	6.65	6.54	6.32		
90.0	5.41	5.19	5.08	4.96	4.85	4.74	4.62	4.51	4.40		
112.5	7.78	7.56	7.33	7.11	6.88	6.65	6.54	6.32	6.20		
135.0	7.67	7.56	7.33	7.11	6.88	6.77	6.65	6.54	6.43		
157.5	7.67	7.33	7.22	6.99	6.88	6.65	6.43	6.32	6.20		
180.0	5.86	5.64	5.30	5.19	5.08	4.85	4.74	4.51	4.40		
202.5	7.67	7.44	7.22	6.99	6.77	6.77	6.54	6.32	6.20		
225.0	9.14	8.91	8.57	8.35	8.23	7.89	7.78	7.56	7.44		
247.5	9.36	8.80	8.57	8.35	8.01	7.89	7.78	7.44	7.33		
270.0	8.57	7.67	7.11	6.88	6.43	6.32	6.20	5.98	5.75		
292.5	9.36	9.02	8.68	8.35	8.01	7.89	7.67	7.56	7.33		
315.0	9.81	9.47	9.25	9.02	8.68	8.57	8.35	8.12	7.89		
337.5	9.02	8.57	8.35	8.01	7.78	7.67	7.44	7.22	7.11		
360.0	6.20	6.09	5.86	5.64	5.41	5.41	5.30	5.08	4.96		
C/ γ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0		
0.0	4.85	4.85	4.74	4.62	4.51	4.51	4.40	4.29	4.17		
22.5	6.54	6.32	6.32	6.09	5.98	5.86	5.75	5.75	5.53		
45.0	6.54	6.43	6.20	6.09	6.09	5.86	5.75	5.75	5.53		
67.5	6.20	5.98	5.98	5.75	5.64	5.64	5.41	5.41	5.08		
90.0	4.29	4.17	4.17	4.06	3.95	3.83	3.83	3.72	3.72		
112.5	6.09	5.86	5.86	5.64	5.64	5.30	5.30	5.19	5.08		
135.0	6.09	6.09	5.86	5.75	5.75	5.53	5.41	5.30	5.19		
157.5	5.98	5.86	5.75	5.64	5.53	5.30	5.19	5.19	4.96		
180.0	4.40	4.29	4.17	4.06	3.95	3.95	3.83	3.72	3.61		
202.5	6.09	5.98	5.75	5.64	5.53	5.41	5.30	5.19	5.08		
225.0	7.33	7.11	6.99	6.88	6.77	6.65	6.54	6.43	6.32		
247.5	7.22	7.22	6.99	6.77	6.77	6.54	6.54	6.20	6.09		
270.0	5.64	5.53	5.41	5.41	5.19	5.19	5.08	4.96	4.96		
292.5	7.11	6.99	6.88	6.65	6.65	6.43	6.32	6.20	6.09		
315.0	7.78	7.67	7.56	7.33	7.22	7.11	6.88	6.88	6.77		
337.5	6.99	6.77	6.65	6.54	6.43	6.32	6.20	6.09	5.98		
360.0	4.85	4.85	4.74	4.62	4.51	4.51	4.40	4.29	4.17		

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	4.17	4.06	4.06	4.06	3.95	3.95	3.83	3.83	3.72		
22.5	5.41	5.30	5.19	5.08	4.96	4.85	4.85	4.74	4.62		
45.0	5.53	5.30	5.30	5.19	5.08	4.96	4.85	4.74	4.62		
67.5	4.96	5.08	4.85	4.74	4.62	4.51	4.51	4.29	4.29		
90.0	3.61	3.61	3.50	3.38	3.38	3.27	3.05	3.05	2.93		
112.5	4.96	4.85	4.74	4.62	4.51	4.40	4.40	4.17	4.06		
135.0	5.08	4.96	4.85	4.85	4.74	4.62	4.51	4.40	4.29		
157.5	4.85	4.74	4.74	4.62	4.51	4.40	4.29	4.17	4.17		
180.0	3.50	3.50	3.38	3.38	3.27	3.38	3.27	3.16	3.16		
202.5	4.96	4.96	4.85	4.74	4.62	4.51	4.40	4.29	4.29		
225.0	6.09	5.98	5.86	5.86	5.64	5.64	5.53	5.41	5.30		
247.5	6.09	5.98	5.86	5.75	5.64	5.53	5.41	5.41	5.19		
270.0	4.85	4.74	4.62	4.51	4.51	4.40	4.40	4.40	4.29		
292.5	5.98	5.86	5.75	5.64	5.53	5.41	5.30	5.19	5.08		
315.0	6.54	6.43	6.43	6.20	6.09	5.98	5.98	5.86	5.64		
337.5	5.86	5.75	5.64	5.53	5.41	5.30	5.30	5.08	5.08		
360.0	4.17	4.06	4.06	4.06	3.95	3.95	3.83	3.83	3.72		
C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0		
0.0	3.61	3.72	3.50	3.50	3.50	3.38	3.38	3.27	3.27		
22.5	4.51	4.40	4.40	4.29	4.17	4.17	4.06	3.95	3.83		
45.0	4.51	4.51	4.40	4.29	4.29	4.17	4.06	3.95	3.95		
67.5	4.29	4.17	4.06	3.95	3.83	3.72	3.72	3.61	3.50		
90.0	2.82	2.82	2.71	2.59	2.59	2.59	2.48	2.48	2.37		
112.5	4.06	3.95	3.83	3.83	3.61	3.61	3.50	3.50	3.38		
135.0	4.29	4.17	4.06	3.95	3.83	3.83	3.72	3.61	3.50		
157.5	4.06	3.95	3.95	3.83	3.72	3.72	3.61	3.61	3.38		
180.0	3.05	3.05	2.93	2.93	2.93	2.82	2.82	2.82	2.71		
202.5	4.17	4.17	3.95	3.95	3.95	3.83	3.72	3.72	3.61		
225.0	5.19	5.19	5.08	4.96	4.85	4.74	4.74	4.62	4.51		
247.5	5.08	4.96	4.85	4.85	4.74	4.62	4.51	4.40	4.40		
270.0	4.17	4.06	4.06	3.95	3.95	3.83	3.72	3.72	3.50		
292.5	5.08	4.96	4.85	4.74	4.62	4.62	4.51	4.40	4.29		
315.0	5.64	5.53	5.41	5.30	5.19	5.19	5.08	4.96	4.85		
337.5	4.96	4.85	4.74	4.74	4.62	4.51	4.29	4.29	4.29		
360.0	3.61	3.72	3.50	3.50	3.50	3.38	3.38	3.27	3.27		
C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0		
0.0	3.38	3.16	3.16	3.05	3.05	3.05	3.05	2.93	2.93		
22.5	3.83	3.72	3.72	3.61	3.50	3.38	3.38	3.27	3.16		
45.0	3.83	3.72	3.61	3.50	3.50	3.50	3.38	3.16	3.16		
67.5	3.38	3.38	3.27	3.27	3.16	3.05	3.05	2.82	2.71		
90.0	2.48	2.37	2.37	2.26	2.26	2.26	2.14	2.14	2.14		
112.5	3.27	3.27	3.16	3.05	2.93	2.93	2.93	2.82	2.82		
135.0	3.50	3.38	3.38	3.27	3.27	3.16	3.05	2.93	2.93		
157.5	3.38	3.38	3.27	3.16	3.05	2.93	2.82	2.71	2.59		
180.0	2.71	2.71	2.71	2.71	2.59	2.59	2.48	2.37	2.37		
202.5	3.61	3.50	3.38	3.38	3.27	3.27	3.16	3.05	2.93		
225.0	4.40	4.40	4.29	4.17	4.06	3.95	3.95	3.83	3.72		
247.5	4.29	4.29	4.17	4.06	3.95	3.83	3.72	3.61	3.50		
270.0	3.50	3.38	3.38	3.27	3.27	3.16	3.16	3.16	3.05		
292.5	4.17	4.06	4.06	4.06	3.95	3.83	3.72	3.61	3.61		
315.0	4.74	4.74	4.62	4.51	4.40	4.29	4.17	4.17	4.06		
337.5	4.17	4.06	4.06	3.95	3.83	3.72	3.72	3.61	3.50		
360.0	3.38	3.16	3.16	3.05	3.05	3.05	3.05	2.93	2.93		

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	2.71	2.82	2.71	2.59	2.59	2.59	2.59	2.48	2.48
22.5	3.16	3.05	2.93	2.93	2.93	2.82	2.82	2.71	2.59
45.0	3.05	3.05	2.93	2.82	2.82	2.71	2.59	2.59	2.48
67.5	2.71	2.71	2.59	2.48	2.37	2.37	2.37	2.26	2.14
90.0	2.26	2.14	2.03	2.03	2.14	2.03	1.92	2.03	1.92
112.5	2.59	2.59	2.59	2.48	2.37	2.37	2.26	2.26	2.14
135.0	2.82	2.71	2.82	2.71	2.59	2.48	2.37	2.48	2.37
157.5	2.48	2.48	2.37	2.37	2.26	2.14	2.26	2.14	2.14
180.0	2.37	2.26	2.26	2.14	2.14	2.14	2.03	2.03	2.03
202.5	2.82	2.82	2.71	2.59	2.59	2.59	2.48	2.37	2.37
225.0	3.72	3.61	3.50	3.38	3.27	3.27	3.16	3.16	3.05
247.5	3.38	3.27	3.16	3.16	3.05	2.93	2.93	2.82	2.71
270.0	3.05	2.93	2.93	2.82	2.71	2.71	2.71	2.59	2.59
292.5	3.50	3.38	3.27	3.16	3.05	3.05	2.93	2.82	2.71
315.0	3.95	3.95	3.83	3.72	3.50	3.50	3.38	3.27	3.16
337.5	3.38	3.38	3.27	3.16	3.16	3.05	2.93	2.93	2.82
360.0	2.71	2.82	2.71	2.59	2.59	2.59	2.59	2.48	2.48
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	2.48	2.37	2.26	2.26	2.26	2.26	2.03	2.03	2.03
22.5	2.48	2.48	2.37	2.26	2.26	2.14	2.03	2.03	1.92
45.0	2.37	2.37	2.26	2.37	2.14	2.14	2.03	1.92	1.92
67.5	2.14	2.03	2.14	1.92	2.03	1.92	1.92	1.80	1.80
90.0	1.92	1.92	1.92	1.80	1.80	1.69	1.80	1.69	1.69
112.5	2.14	2.03	1.92	1.92	1.92	1.80	1.80	1.69	1.69
135.0	2.26	2.26	2.26	2.14	2.03	2.03	1.92	1.80	1.92
157.5	2.03	2.03	1.92	1.92	1.92	1.80	1.80	1.80	1.69
180.0	1.92	1.92	1.92	1.92	1.80	1.80	1.80	1.69	1.69
202.5	2.37	2.37	2.26	2.14	2.14	2.03	2.03	1.92	1.92
225.0	2.93	2.82	2.82	2.71	2.71	2.59	2.48	2.37	2.37
247.5	2.59	2.48	2.48	2.37	2.26	2.26	2.14	2.14	2.03
270.0	2.48	2.48	2.48	2.37	2.37	2.37	2.26	2.26	2.14
292.5	2.71	2.59	2.48	2.48	2.37	2.26	2.26	2.14	2.14
315.0	3.16	3.05	2.93	2.93	2.82	2.71	2.59	2.59	2.37
337.5	2.71	2.59	2.48	2.48	2.37	2.26	2.26	2.14	2.03
360.0	2.48	2.37	2.26	2.26	2.26	2.26	2.03	2.03	2.03
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	2.03	1.92	1.92	1.80	1.80	1.69	1.69	1.58	1.58
22.5	1.92	1.92	1.80	1.80	1.69	1.69	1.58	1.58	1.58
45.0	1.80	1.80	1.69	1.69	1.69	1.58	1.47	1.47	1.47
67.5	1.69	1.69	1.69	1.58	1.58	1.58	1.47	1.35	1.35
90.0	1.58	1.69	1.58	1.58	1.58	1.47	1.47	1.47	1.35
112.5	1.69	1.58	1.58	1.58	1.58	1.47	1.47	1.47	1.47
135.0	1.80	1.69	1.69	1.58	1.58	1.47	1.35	1.35	1.24
157.5	1.80	1.69	1.58	1.69	1.58	1.58	1.58	1.47	1.47
180.0	1.69	1.69	1.69	1.69	1.69	1.58	1.58	1.58	1.58
202.5	1.80	1.80	1.80	1.80	1.69	1.58	1.58	1.58	1.47
225.0	2.26	2.14	2.14	2.03	1.92	1.92	1.80	1.69	1.69
247.5	2.03	1.92	1.92	1.80	1.80	1.69	1.69	1.58	1.58
270.0	2.14	2.03	2.03	1.92	1.92	1.92	1.80	1.80	1.80
292.5	2.03	1.92	1.92	1.80	1.80	1.80	1.69	1.69	1.58
315.0	2.48	2.26	2.14	2.26	2.03	2.03	1.92	1.80	1.80
337.5	2.03	1.92	1.92	1.80	1.80	1.80	1.69	1.69	1.58
360.0	2.03	1.92	1.92	1.80	1.80	1.69	1.69	1.58	1.58

Intensity data(cd)

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C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	1.58	1.47	1.47	1.35	1.35	1.35	1.35	1.35	1.24
22.5	1.47	1.47	1.47	1.35	1.35	1.35	1.24	1.24	1.24
45.0	1.35	1.24	1.24	1.24	1.24	1.24	1.35	1.24	1.13
67.5	1.24	1.24	1.24	1.35	1.24	1.24	1.24	1.24	1.13
90.0	1.35	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
112.5	1.35	1.35	1.24	1.24	1.24	1.24	1.24	1.24	1.13
135.0	1.24	1.24	1.24	1.24	1.13	1.24	1.13	1.24	1.24
157.5	1.47	1.47	1.35	1.35	1.35	1.24	1.24	1.24	1.24
180.0	1.58	1.47	1.47	1.47	1.47	1.35	1.24	1.35	1.24
202.5	1.47	1.35	1.24	1.35	1.24	1.24	1.24	1.24	1.13
225.0	1.58	1.58	1.47	1.35	1.35	1.35	1.24	1.13	1.13
247.5	1.58	1.47	1.47	1.47	1.35	1.35	1.24	1.24	1.24
270.0	1.69	1.69	1.58	1.58	1.58	1.47	1.47	1.35	1.35
292.5	1.58	1.58	1.47	1.47	1.35	1.35	1.35	1.24	1.24
315.0	1.69	1.69	1.47	1.47	1.47	1.35	1.35	1.24	1.24
337.5	1.58	1.47	1.47	1.35	1.35	1.35	1.24	1.24	1.24
360.0	1.58	1.47	1.47	1.35	1.35	1.35	1.35	1.35	1.24
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	1.24	1.24	1.24	1.24	1.24	1.24	1.13	1.24	1.24
22.5	1.24	1.24	1.24	1.24	1.24	1.13	1.24	1.24	1.13
45.0	1.13	1.13	1.13	1.13	1.24	1.13	1.13	1.24	1.24
67.5	1.24	1.13	1.24	1.24	1.24	1.24	1.24	1.13	1.13
90.0	1.24	1.24	1.24	1.24	1.13	1.24	1.24	1.24	1.24
112.5	1.24	1.13	1.24	1.24	1.24	1.24	1.13	1.24	1.13
135.0	1.24	1.24	1.13	1.24	1.24	1.24	1.24	1.24	1.24
157.5	1.13	1.13	1.13	1.13	1.13	1.13	1.24	1.13	1.13
180.0	1.24	1.24	1.24	1.24	1.13	1.24	1.24	1.24	1.24
202.5	1.13	1.24	1.13	1.24	1.24	1.13	1.24	1.13	1.24
225.0	1.13	1.24	1.24	1.24	1.24	1.13	1.13	1.13	1.13
247.5	1.24	1.24	1.24	1.24	1.24	1.13	1.24	1.24	1.24
270.0	1.24	1.35	1.24	1.24	1.24	1.24	1.24	1.24	1.24
292.5	1.24	1.24	1.24	1.13	1.13	1.24	1.24	1.13	1.13
315.0	1.24	1.24	1.24	1.13	1.24	1.24	1.24	1.24	1.24
337.5	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
360.0	1.24	1.24	1.24	1.24	1.24	1.24	1.13	1.24	1.24
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								