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Client:

LumCAT: B8905-TBK

Luminaire: INTERGRATED LED

Report No: BSR202210120101-9

Ballast type:

Test No: BSR202210120101-9

Voltage(V): 120.000

LampCAT:

Current(A): 0.052

Lamp flux(lm)

Power (W): 6.219

Number of Lamps: 0

PF: 0.994

Length(mm): 130

Width(mm): 130

Phm Type: C

Height(mm): 270

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Photometric Results

Lumens(lm): 302.55, Luminous Efficacy(lm/W): 48.65

Central intensity(cd): 139.571, Maximum intensity(cd): 141.544

Angle of maximum intensity: C=135.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=92.3

[C90/270]Total=101.6

Field angle(10%Imax): [C0/180]Total=157.0

[C90/270]Total=149.7

Maximum s/h(1/2): C0\_180=56.09 C90\_270=60.74

Maximum s/h(1/4): C0\_180=59.89 C90\_270=61.14

Up flux rate of LUM(%): 5.46%

Down flux rate of LUM(%): 95.04%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 70.966%

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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	139.571	0.000	0	0.00%	0.00%
1.0	139.613	0.134	0.134	0.04%	0.04%
2.0	139.648	0.401	0.534	0.13%	0.18%
3.0	139.712	0.668	1.203	0.22%	0.40%
4.0	139.754	0.935	2.138	0.31%	0.71%
5.0	139.655	1.202	3.34	0.40%	1.10%
6.0	139.120	1.465	4.805	0.48%	1.59%
7.0	138.549	1.723	6.529	0.57%	2.16%
8.0	136.631	1.969	8.498	0.65%	2.81%
9.0	130.597	2.166	10.664	0.72%	3.52%
10.0	121.532	2.282	12.945	0.75%	4.28%
11.0	103.416	2.248	15.193	0.74%	5.02%
12.0	87.817	2.090	17.284	0.69%	5.71%
13.0	65.105	1.815	19.098	0.60%	6.31%
14.0	48.518	1.454	20.553	0.48%	6.79%
15.0	42.160	1.245	21.798	0.41%	7.20%
16.0	40.412	1.210	23.007	0.40%	7.60%
17.0	43.232	1.303	24.31	0.43%	8.04%
18.0	47.990	1.504	25.814	0.50%	8.53%
19.0	54.595	1.785	27.599	0.59%	9.12%
20.0	58.232	2.065	29.664	0.68%	9.80%
21.0	63.462	2.337	32.001	0.77%	10.58%
22.0	67.565	2.633	34.634	0.87%	11.45%
23.0	70.800	2.903	37.537	0.96%	12.41%
24.0	74.078	3.168	40.705	1.05%	13.45%
25.0	75.812	3.408	44.113	1.13%	14.58%
26.0	77.842	3.627	47.74	1.20%	15.78%
27.0	78.561	3.826	51.566	1.26%	17.04%
28.0	78.745	3.983	55.549	1.32%	18.36%
29.0	78.385	4.111	59.66	1.36%	19.72%
30.0	77.800	4.217	63.877	1.39%	21.11%
31.0	76.997	4.308	68.185	1.42%	22.54%
32.0	76.080	4.385	72.57	1.45%	23.99%
33.0	75.453	4.464	77.034	1.48%	25.46%
34.0	74.642	4.542	81.577	1.50%	26.96%
35.0	73.930	4.614	86.191	1.53%	28.49%
36.0	73.430	4.692	90.883	1.55%	30.04%
37.0	72.753	4.768	95.65	1.58%	31.61%



$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	72.090	4.835	100.485	1.60%	33.21%
39.0	71.096	4.887	105.372	1.62%	34.83%
40.0	69.835	4.915	110.287	1.62%	36.45%
41.0	68.982	4.943	115.231	1.63%	38.09%
42.0	67.882	4.973	120.203	1.64%	39.73%
43.0	67.107	5.000	125.204	1.65%	41.38%
44.0	66.275	5.034	130.238	1.66%	43.05%
45.0	65.408	5.061	135.298	1.67%	44.72%
46.0	64.900	5.096	140.395	1.68%	46.40%
47.0	64.040	5.128	145.523	1.70%	48.10%
48.0	63.152	5.142	150.665	1.70%	49.80%
49.0	62.384	5.155	155.82	1.70%	51.50%
50.0	61.460	5.163	160.983	1.71%	53.21%
51.0	60.699	5.168	166.152	1.71%	54.92%
52.0	59.578	5.161	171.313	1.71%	56.62%
53.0	58.359	5.130	176.443	1.70%	58.32%
54.0	57.450	5.104	181.548	1.69%	60.01%
55.0	56.286	5.077	186.625	1.68%	61.68%
56.0	55.201	5.038	191.662	1.67%	63.35%
57.0	53.883	4.988	196.65	1.65%	65.00%
58.0	52.501	4.920	201.569	1.63%	66.62%
59.0	51.571	4.865	206.435	1.61%	68.23%
60.0	50.104	4.803	211.238	1.59%	69.82%
61.0	48.525	4.707	215.945	1.56%	71.38%
62.0	47.172	4.611	220.556	1.52%	72.90%
63.0	45.424	4.503	225.06	1.49%	74.39%
64.0	44.000	4.388	229.448	1.45%	75.84%
65.0	41.935	4.253	233.701	1.41%	77.24%
66.0	39.531	4.065	237.765	1.34%	78.59%
67.0	37.614	3.879	241.644	1.28%	79.87%
68.0	35.013	3.679	245.323	1.22%	81.09%
69.0	32.715	3.455	248.778	1.14%	82.23%
70.0	30.057	3.224	252.002	1.07%	83.29%
71.0	27.125	2.955	254.958	0.98%	84.27%
72.0	25.475	2.735	257.693	0.90%	85.17%
73.0	22.860	2.528	260.22	0.84%	86.01%
74.0	20.675	2.289	262.509	0.76%	86.77%
75.0	19.018	2.097	264.606	0.69%	87.46%



$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.214	1.923	266.53	0.64%	88.09%
77.0	16.001	1.771	268.301	0.59%	88.68%
78.0	14.359	1.625	269.926	0.54%	89.22%
79.0	12.723	1.455	271.381	0.48%	89.70%
80.0	11.610	1.312	272.693	0.43%	90.13%
81.0	10.249	1.182	273.875	0.39%	90.52%
82.0	9.389	1.065	274.94	0.35%	90.87%
83.0	8.487	0.972	275.912	0.32%	91.20%
84.0	7.867	0.891	276.803	0.29%	91.49%
85.0	7.613	0.845	277.647	0.28%	91.77%
86.0	7.232	0.811	278.459	0.27%	92.04%
87.0	6.964	0.777	279.236	0.26%	92.29%
88.0	6.774	0.753	279.988	0.25%	92.54%
89.0	6.499	0.728	280.716	0.24%	92.78%
90.0	6.351	0.705	281.42	0.23%	93.02%
91.0	6.097	0.683	282.103	0.23%	93.24%
92.0	5.914	0.658	282.761	0.22%	93.46%
93.0	5.808	0.642	283.404	0.21%	93.67%
94.0	5.660	0.628	284.031	0.21%	93.88%
95.0	5.548	0.613	284.644	0.20%	94.08%
96.0	5.385	0.597	285.241	0.20%	94.28%
97.0	5.266	0.580	285.821	0.19%	94.47%
98.0	5.216	0.570	286.391	0.19%	94.66%
99.0	5.089	0.559	286.949	0.18%	94.84%
100.0	4.970	0.544	287.493	0.18%	95.02%
101.0	4.892	0.532	288.025	0.18%	95.20%
102.0	4.800	0.521	288.546	0.17%	95.37%
103.0	4.716	0.509	289.055	0.17%	95.54%
104.0	4.610	0.497	289.552	0.16%	95.70%
105.0	4.518	0.485	290.037	0.16%	95.86%
106.0	4.441	0.473	290.51	0.16%	96.02%
107.0	4.349	0.462	290.973	0.15%	96.17%
108.0	4.258	0.450	291.423	0.15%	96.32%
109.0	4.166	0.438	291.861	0.14%	96.47%
110.0	4.088	0.427	292.287	0.14%	96.61%
111.0	4.018	0.416	292.704	0.14%	96.75%
112.0	3.933	0.406	293.109	0.13%	96.88%
113.0	3.828	0.393	293.502	0.13%	97.01%



$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	3.764	0.382	293.884	0.13%	97.14%
115.0	3.665	0.371	294.255	0.12%	97.26%
116.0	3.651	0.362	294.617	0.12%	97.38%
117.0	3.525	0.352	294.969	0.12%	97.49%
118.0	3.461	0.340	295.309	0.11%	97.61%
119.0	3.376	0.329	295.638	0.11%	97.72%
120.0	3.313	0.319	295.957	0.11%	97.82%
121.0	3.264	0.311	296.268	0.10%	97.92%
122.0	3.179	0.301	296.569	0.10%	98.02%
123.0	3.095	0.290	296.86	0.10%	98.12%
124.0	3.059	0.281	297.141	0.09%	98.21%
125.0	2.968	0.272	297.413	0.09%	98.30%
126.0	2.869	0.261	297.674	0.09%	98.39%
127.0	2.841	0.252	297.925	0.08%	98.47%
128.0	2.756	0.243	298.169	0.08%	98.55%
129.0	2.714	0.235	298.404	0.08%	98.63%
130.0	2.629	0.226	298.63	0.07%	98.70%
131.0	2.566	0.217	298.846	0.07%	98.78%
132.0	2.517	0.209	299.055	0.07%	98.85%
133.0	2.439	0.200	299.255	0.07%	98.91%
134.0	2.397	0.192	299.448	0.06%	98.97%
135.0	2.305	0.184	299.631	0.06%	99.04%
136.0	2.249	0.175	299.806	0.06%	99.09%
137.0	2.220	0.169	299.975	0.06%	99.15%
138.0	2.136	0.161	300.137	0.05%	99.20%
139.0	2.079	0.153	300.29	0.05%	99.25%
140.0	2.037	0.147	300.436	0.05%	99.30%
141.0	1.995	0.141	300.577	0.05%	99.35%
142.0	1.924	0.134	300.711	0.04%	99.39%
143.0	1.875	0.127	300.837	0.04%	99.43%
144.0	1.826	0.121	300.958	0.04%	99.47%
145.0	1.769	0.114	301.073	0.04%	99.51%
146.0	1.720	0.108	301.181	0.04%	99.55%
147.0	1.678	0.103	301.284	0.03%	99.58%
148.0	1.642	0.098	301.382	0.03%	99.61%
149.0	1.572	0.092	301.474	0.03%	99.64%
150.0	1.551	0.087	301.561	0.03%	99.67%
151.0	1.480	0.082	301.642	0.03%	99.70%



$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	1.445	0.077	301.719	0.03%	99.73%
153.0	1.389	0.072	301.791	0.02%	99.75%
154.0	1.368	0.067	301.858	0.02%	99.77%
155.0	1.311	0.063	301.921	0.02%	99.79%
156.0	1.262	0.059	301.98	0.02%	99.81%
157.0	1.234	0.055	302.034	0.02%	99.83%
158.0	1.191	0.051	302.085	0.02%	99.85%
159.0	1.163	0.047	302.133	0.02%	99.86%
160.0	1.121	0.044	302.177	0.01%	99.88%
161.0	1.114	0.041	302.217	0.01%	99.89%
162.0	1.064	0.038	302.255	0.01%	99.90%
163.0	1.050	0.035	302.29	0.01%	99.91%
164.0	0.994	0.032	302.322	0.01%	99.92%
165.0	0.987	0.029	302.351	0.01%	99.93%
166.0	0.966	0.027	302.378	0.01%	99.94%
167.0	0.945	0.024	302.402	0.01%	99.95%
168.0	0.916	0.022	302.424	0.01%	99.96%
169.0	0.909	0.020	302.444	0.01%	99.97%
170.0	0.923	0.018	302.463	0.01%	99.97%
171.0	0.909	0.017	302.479	0.01%	99.98%
172.0	0.902	0.015	302.494	0.00%	99.98%
173.0	0.909	0.013	302.507	0.00%	99.99%
174.0	0.916	0.011	302.518	0.00%	99.99%
175.0	0.902	0.010	302.528	0.00%	99.99%
176.0	0.909	0.008	302.536	0.00%	100.00%
177.0	0.888	0.006	302.542	0.00%	100.00%
178.0	0.923	0.004	302.546	0.00%	100.00%
179.0	0.930	0.003	302.549	0.00%	100.00%
180.0	0.000	0.000	302.549	0.00%	100.00%



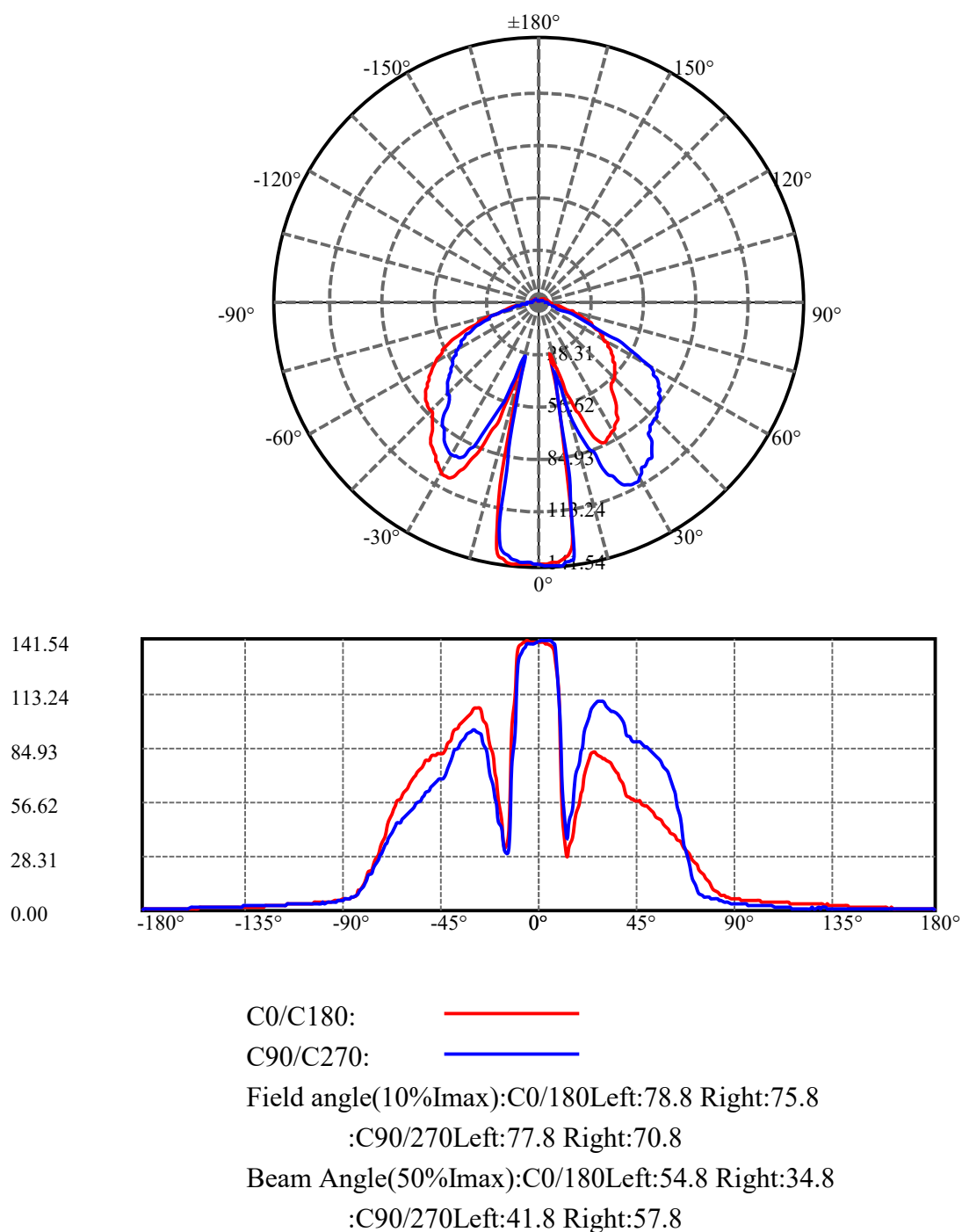
## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	63.88	21.11%
0-40	110.29	36.45%
0-60	211.24	69.82%
0-90	281.42	93.02%
0-120	295.96	97.82%
0-180	302.55	100.00%
60-90	70.18	23.20%
90-120	14.54	4.80%
90-130	17.21	5.69%
90-150	20.14	6.66%
90-180	21.13	6.98%
0-67.11	242.04	80.00%

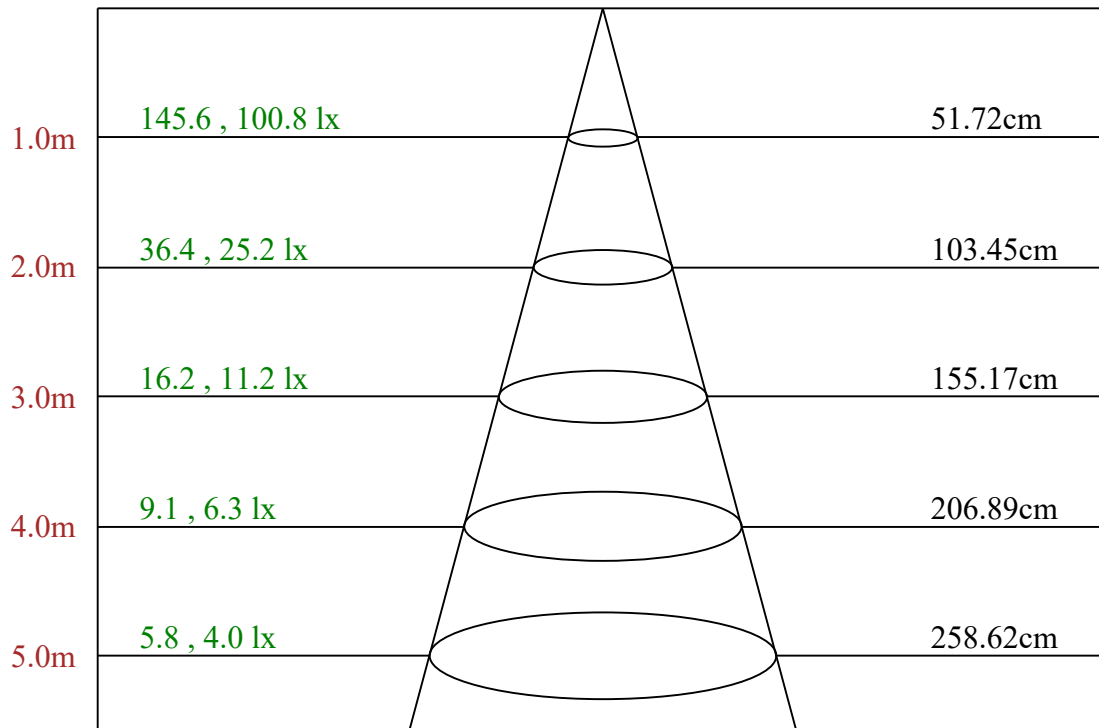
## ZONAL LUMEN SUMMARY

0-10	12.95
10-20	16.72
20-30	34.21
30-40	46.41
40-50	50.70
50-60	50.26
60-70	40.76
70-80	20.69
80-90	8.73
90-100	6.07
100-110	4.79
110-120	3.67
120-130	2.67
130-140	1.81
140-150	1.12
150-160	0.62
160-170	0.29
170-180	0.09





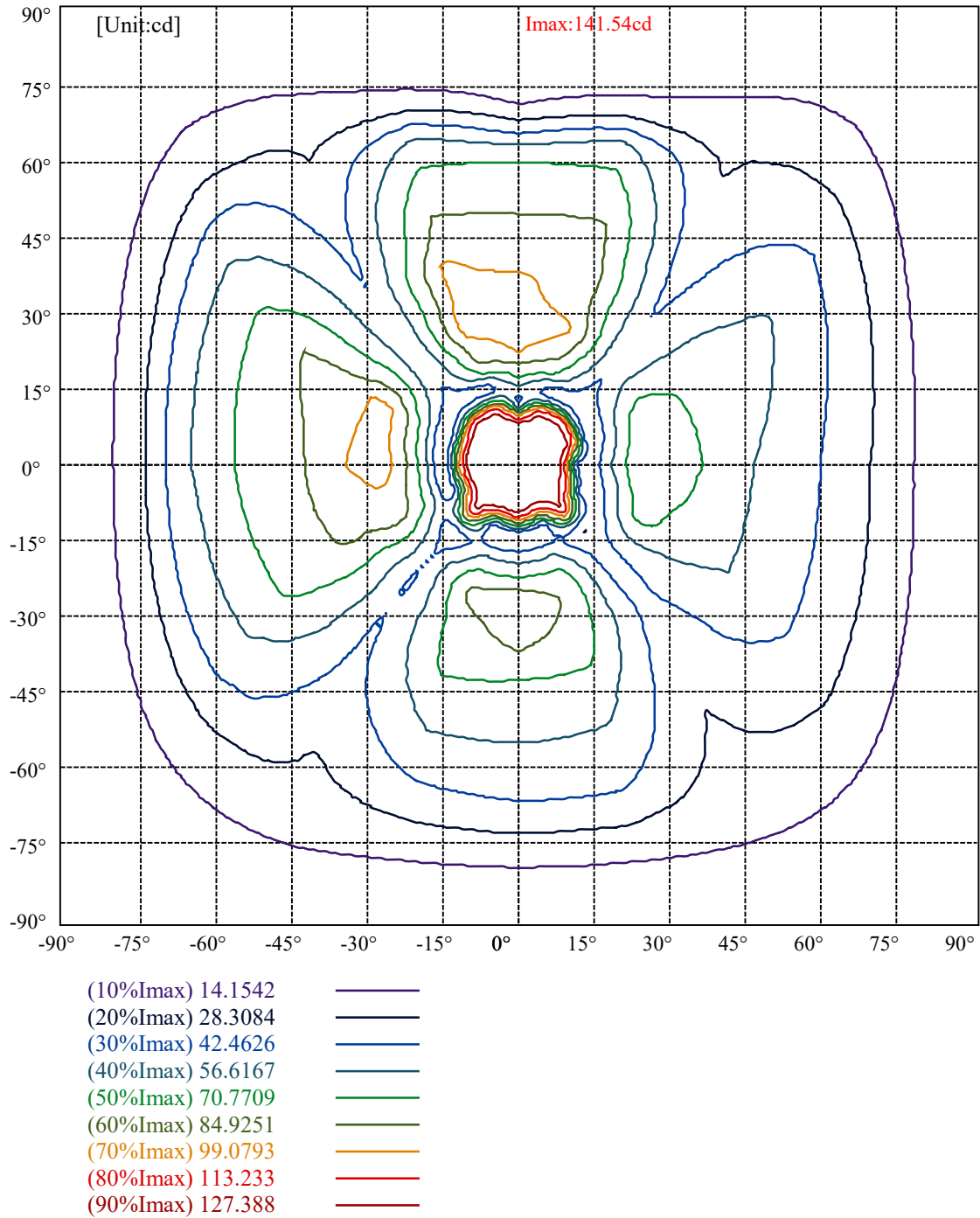




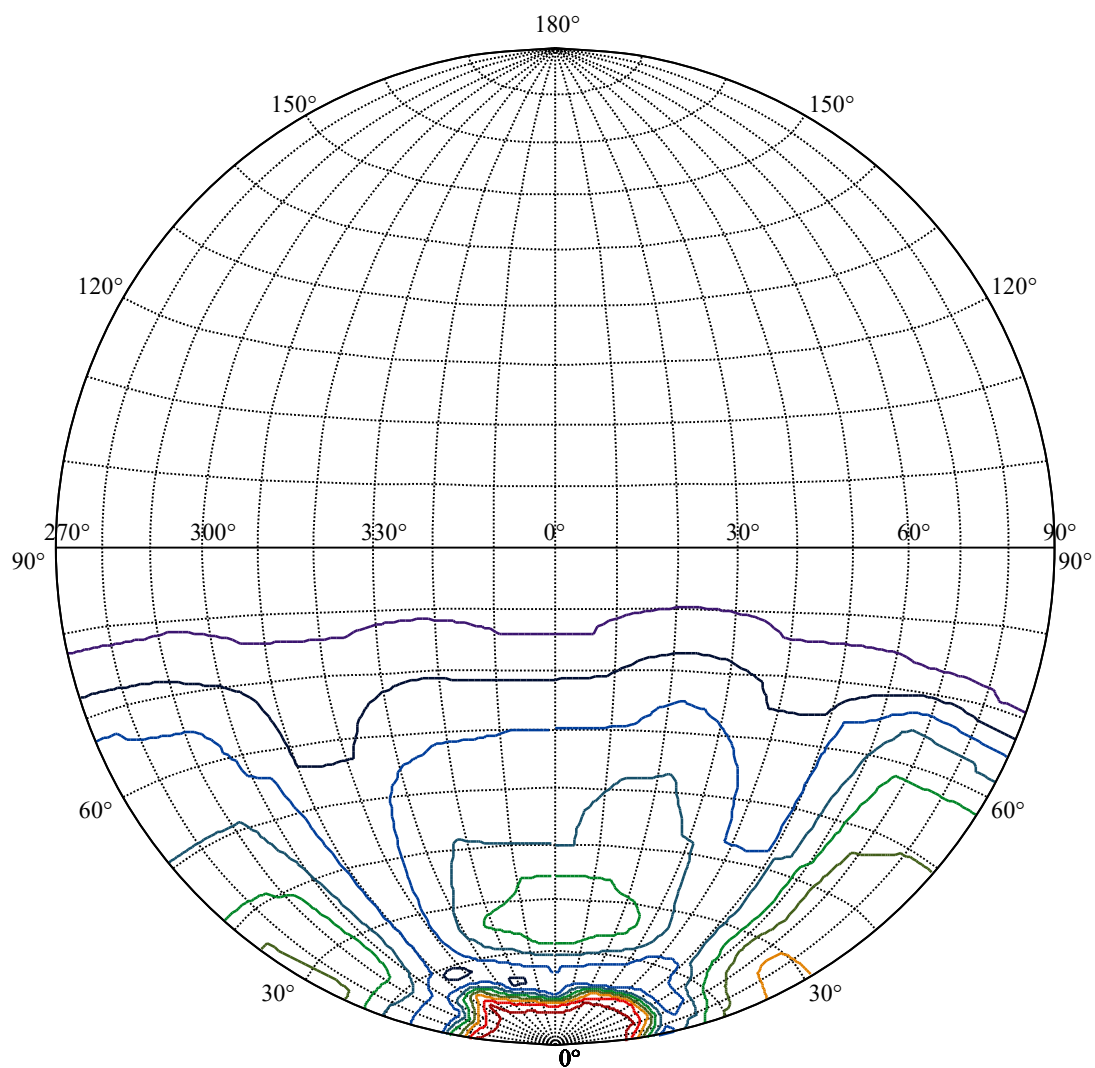
Max , Ave

Beam angle of C135 plane 29.00









House

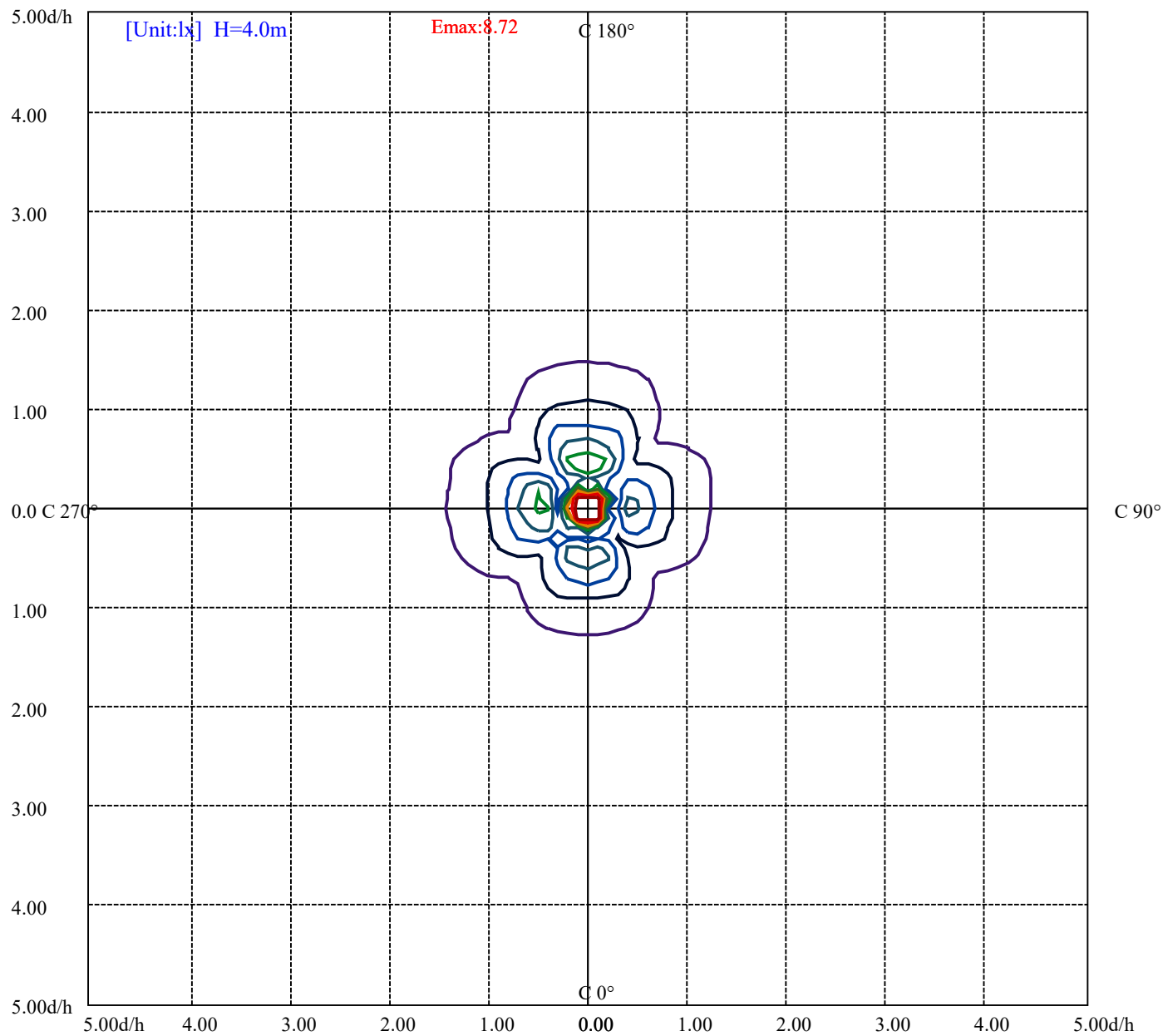
[Unit:cd]

Road

Imax:141.54

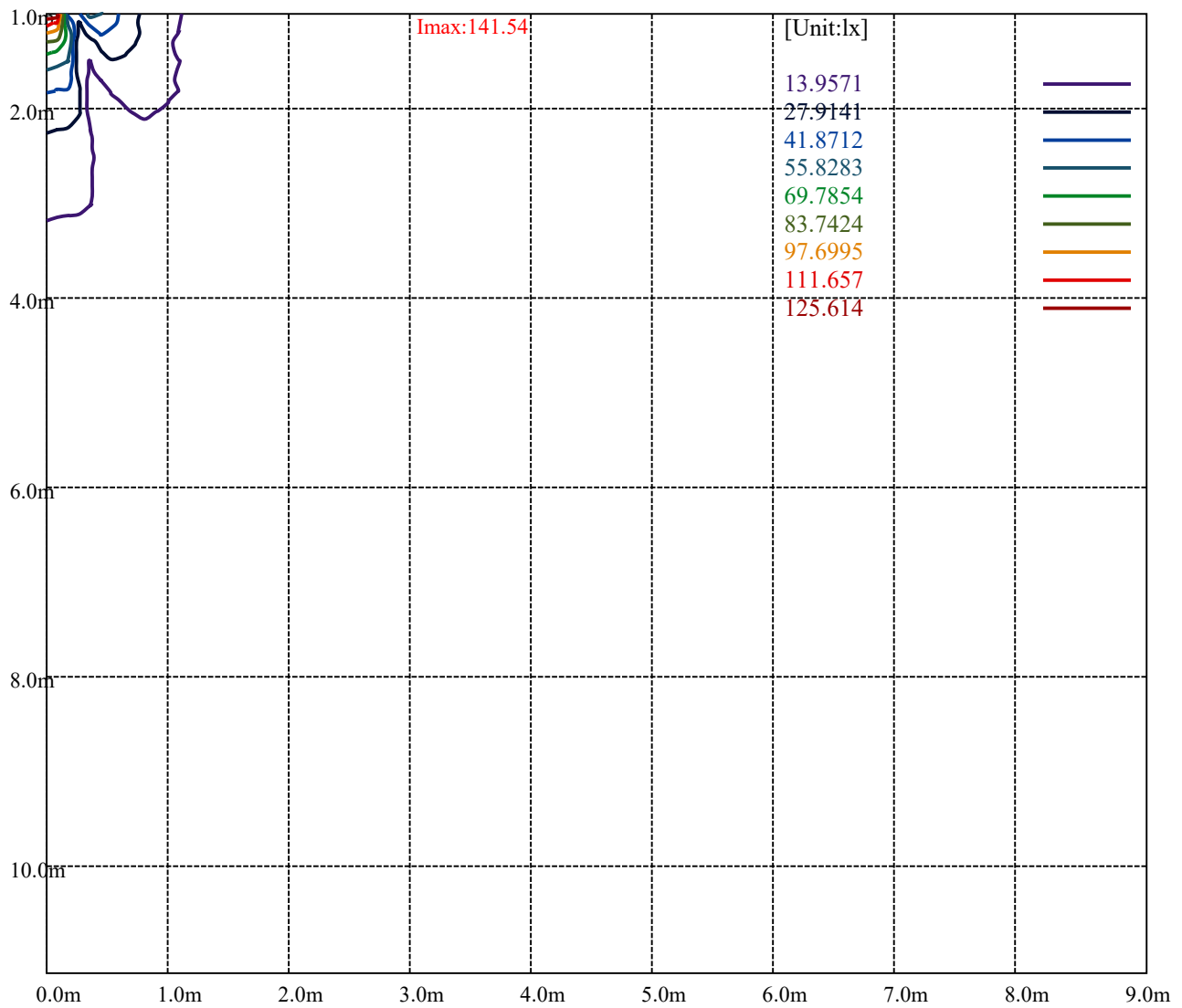
(10%Imax)	14.662	—
(20%Imax)	29.3239	—
(30%Imax)	43.9859	—
(40%Imax)	58.6479	—
(50%Imax)	73.3099	—
(60%Imax)	87.9718	—
(70%Imax)	102.634	—
(80%Imax)	117.296	—
(90%Imax)	131.958	—





(10%Emax) 0.8723125	—
(20%Emax) 1.744625	—
(30%Emax) 2.616937	—
(40%Emax) 3.48925	—
(50%Emax) 4.361563	—
(60%Emax) 5.233875	—
(70%Emax) 6.106194	—
(80%Emax) 6.9785	—
(90%Emax) 7.850812	—







Luminance Table

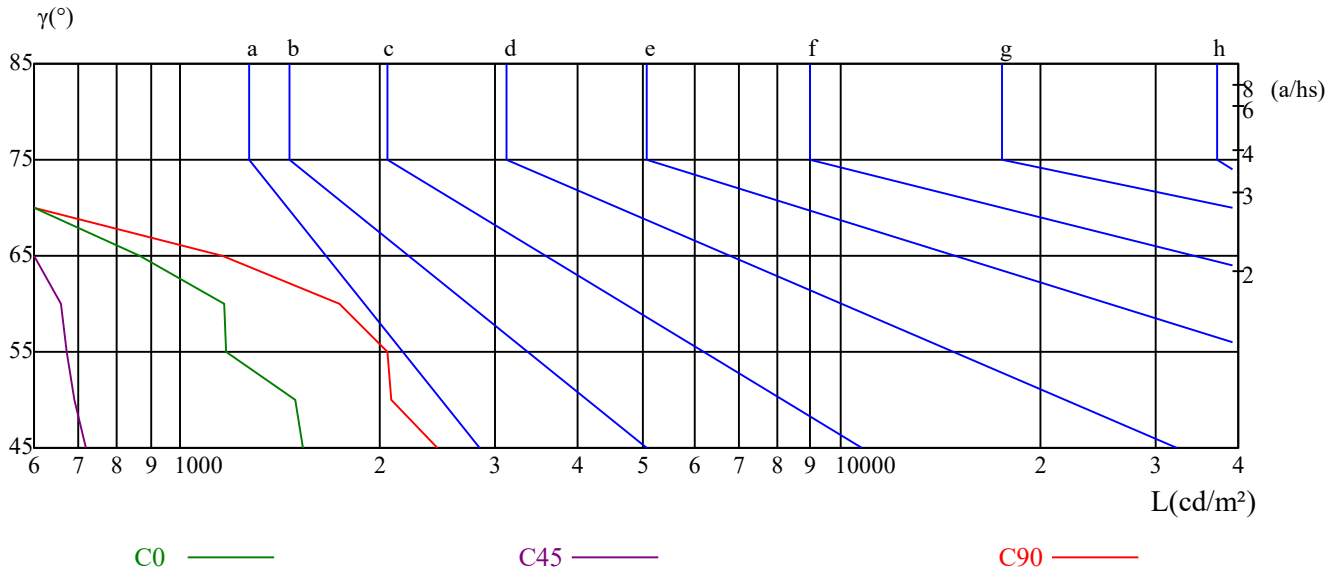
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1534	1494	1173	1161	869	582	589	301	310
C45	719	692	672	658	433	430	431	218	221
C90	2454	2091	2054	1742	1158	582	295	301	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6316	6316	3553	5157	3868	5157	7657	3829	7657

Glare Table

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

Luminance Limiting Curve

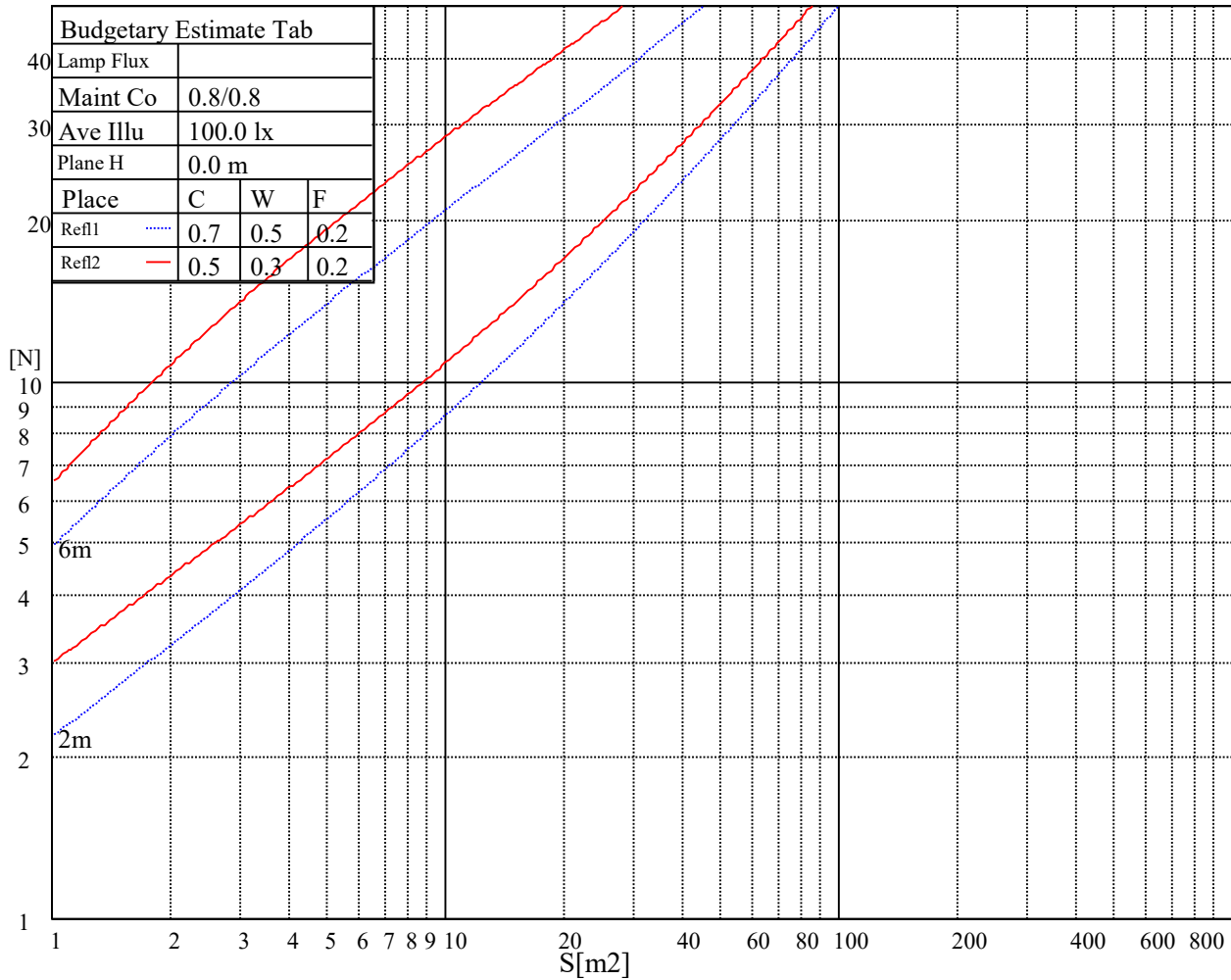




Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	11.72	13.26	12.18	13.71	14.20	14.09	15.63	14.55	16.08	16.57
	3H	13.45	14.85	13.94	15.33	15.84	14.96	16.36	15.44	16.84	17.34
	4H	13.94	15.26	14.44	15.75	16.27	14.97	16.29	15.46	16.77	17.30
	6H	14.21	15.44	14.72	15.94	16.49	14.97	16.21	15.48	16.70	17.26
	8H	14.24	15.43	14.75	15.94	16.50	14.94	16.13	15.45	16.64	17.20
	12H	14.26	15.41	14.78	15.92	16.49	14.91	16.05	15.43	16.57	17.14
4H	2H	12.32	13.64	12.82	14.13	14.66	14.30	15.62	14.79	16.10	16.63
	3H	14.24	15.38	14.76	15.89	16.46	15.29	16.42	15.81	16.94	17.50
	4H	14.94	15.95	15.48	16.49	17.08	15.39	16.40	15.92	16.94	17.53
	6H	15.30	16.21	15.86	16.77	17.36	15.39	16.30	15.96	16.86	17.46
	8H	15.39	16.24	15.97	16.80	17.42	15.41	16.26	15.98	16.82	17.43
	12H	15.47	16.26	16.05	16.82	17.47	15.43	16.21	16.01	16.77	17.42
8H	4H	15.05	15.89	15.62	16.46	17.07	15.46	16.31	16.04	16.88	17.49
	6H	15.51	16.22	16.10	16.80	17.45	15.51	16.22	16.10	16.80	17.45
	8H	15.72	16.34	16.33	16.96	17.60	15.61	16.23	16.22	16.85	17.49
	12H	15.85	16.38	16.46	17.00	17.65	15.65	16.18	16.27	16.81	17.46
12H	4H	15.04	15.82	15.61	16.38	17.03	15.47	16.26	16.05	16.82	17.47
	6H	15.56	16.19	16.17	16.80	17.44	15.58	16.20	16.19	16.82	17.46
	8H	15.74	16.27	16.36	16.89	17.55	15.64	16.17	16.26	16.80	17.45
Variation with the observer position at spacings:											
S = 1.0H		0.7/-0.6					0.4/-0.7				
S = 1.5H		0.9/-1.0					0.7/-1.0				
S = 2.0H		1.9/-2.9					0.9/-1.2				
Standard tables:		BK2					BK3				
Uncorrected UGR		-1.8					-2.5				

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

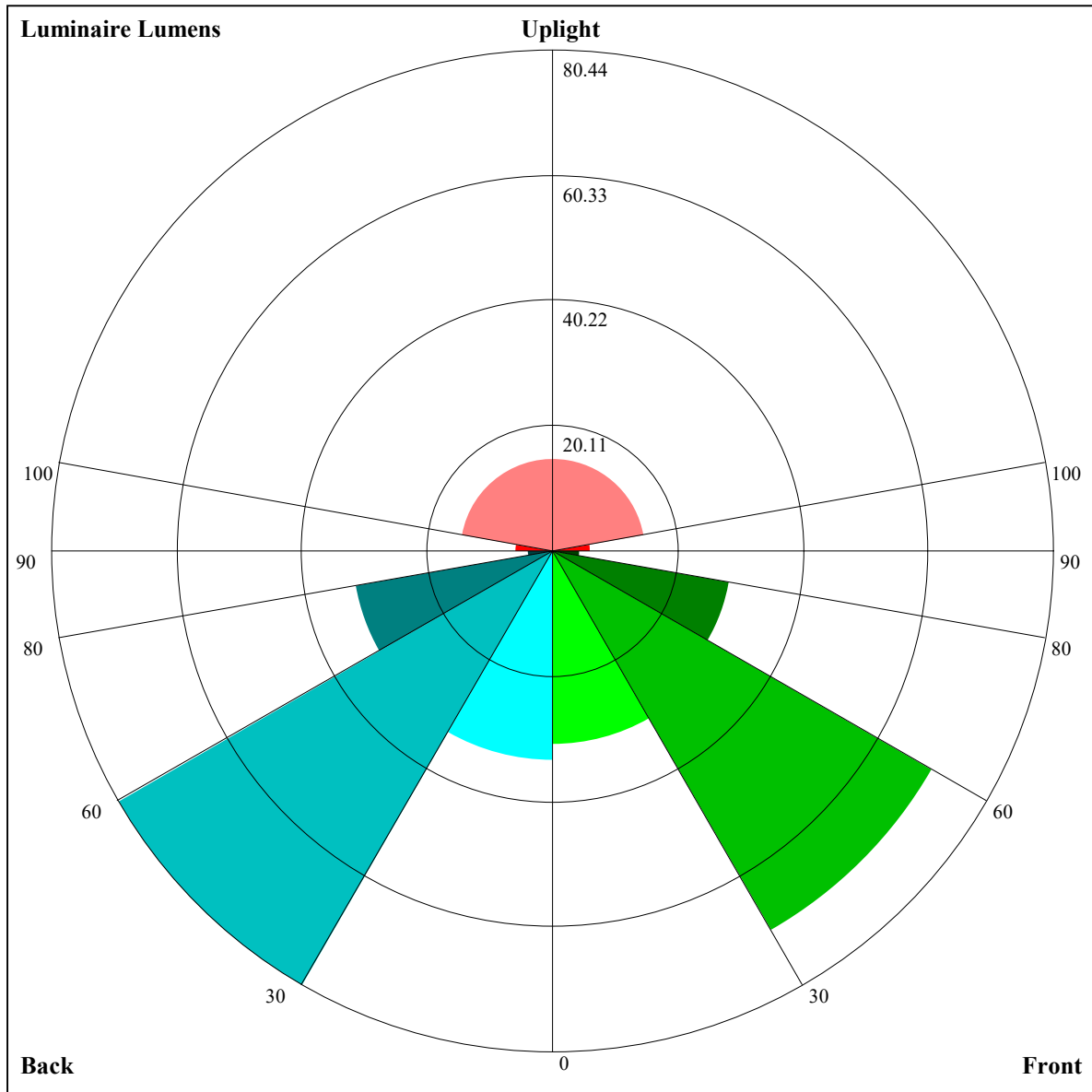






RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.18	1.18	1.18	1.15	1.15	1.15	1.08	1.08	1.08	1.03	1.03	1.03	0.97	0.97	0.97	0.95
1	1.01	0.97	0.93	0.99	0.94	0.91	0.93	0.90	0.87	0.89	0.86	0.83	0.84	0.82	0.80	0.77
2	0.88	0.80	0.74	0.85	0.79	0.73	0.81	0.75	0.71	0.77	0.72	0.68	0.73	0.69	0.66	0.63
3	0.76	0.68	0.61	0.74	0.66	0.60	0.71	0.64	0.58	0.67	0.61	0.57	0.64	0.59	0.55	0.53
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	0.57	0.51	0.47	0.44
5	0.60	0.50	0.43	0.58	0.49	0.43	0.55	0.48	0.42	0.53	0.46	0.41	0.51	0.45	0.40	0.38
6	0.53	0.44	0.38	0.52	0.43	0.37	0.50	0.42	0.36	0.48	0.41	0.36	0.46	0.40	0.35	0.33
7	0.48	0.39	0.33	0.47	0.39	0.33	0.45	0.38	0.32	0.43	0.36	0.31	0.41	0.35	0.31	0.29
8	0.44	0.35	0.29	0.43	0.35	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	0.32	0.26	0.39	0.31	0.26	0.38	0.31	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23
10	0.37	0.29	0.24	0.36	0.29	0.23	0.35	0.28	0.23	0.34	0.27	0.23	0.32	0.27	0.22	0.21





Luminaire Lumens:

FL=31.22,FM=70.35,FH=28.91,FVH=4.34

BL=33.65,BM=80.44,BH=32.34,BVH=4.23

UL=6.09,UH=15.05

BUG Rating:B0-U2-G0



## Intensity data(cd)

Appendix Page: 19 Total:25

C/ $\gamma$ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	139.57	139.51	139.40	139.29	138.84	138.27	136.81	135.34	129.36
22.5	139.57	139.74	139.63	139.85	139.97	139.97	139.63	139.51	138.50
45.0	139.57	139.97	140.30	140.42	140.87	140.75	140.53	140.19	139.06
67.5	139.57	139.74	139.85	140.30	140.64	140.98	140.98	140.75	139.85
90.0	139.57	140.30	140.64	140.87	140.98	140.75	139.74	138.95	135.57
112.5	139.57	139.63	139.97	140.30	140.64	141.09	141.32	141.32	140.64
135.0	139.57	140.08	140.42	140.87	141.21	141.54	141.54	141.09	140.19
157.5	139.57	139.51	139.74	140.08	140.30	140.64	140.75	140.30	139.51
180.0	139.57	139.74	139.85	139.97	140.08	140.42	140.19	139.85	138.84
202.5	139.57	139.74	139.74	139.85	139.97	139.74	139.06	138.61	137.03
225.0	139.57	139.63	139.51	139.40	139.40	139.51	139.40	139.29	138.61
247.5	139.57	139.18	139.06	138.95	138.72	138.05	136.92	136.02	133.65
270.0	139.57	139.51	139.18	138.95	138.84	138.50	137.48	136.69	134.66
292.5	139.57	138.95	138.84	138.50	138.27	137.37	136.02	134.89	129.93
315.0	139.57	139.40	139.18	138.95	138.84	138.72	138.16	137.82	136.92
337.5	139.57	139.18	139.06	138.84	138.50	138.16	137.37	136.13	133.76
360.0	139.57	139.51	139.40	139.29	138.84	138.27	136.81	135.34	129.36
C/ $\gamma$ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	112.11	78.61	49.85	31.47	28.31	33.61	37.56	44.32	50.30
22.5	136.81	132.07	117.86	104.55	71.17	38.57	32.03	31.35	36.09
45.0	136.36	134.55	128.46	120.45	86.73	55.83	44.32	33.27	31.35
67.5	138.05	133.31	118.54	103.99	70.15	46.69	36.32	40.04	43.53
90.0	109.96	92.48	63.27	42.52	37.67	46.81	53.12	63.38	71.28
112.5	139.29	136.36	126.88	115.38	83.01	56.05	39.14	36.54	40.38
135.0	138.16	136.69	132.18	120.90	98.91	65.98	51.99	36.54	31.13
157.5	138.61	134.55	113.24	96.88	62.60	41.50	32.48	33.72	36.99
180.0	136.81	130.60	111.32	93.72	58.20	38.35	32.26	36.20	47.26
202.5	133.31	121.81	92.48	75.57	50.64	33.05	33.84	40.04	48.95
225.0	137.60	136.13	134.33	132.63	125.75	101.84	85.83	58.99	46.02
247.5	127.22	110.30	78.27	52.11	34.62	30.56	32.37	37.67	44.21
270.0	130.49	117.41	91.92	74.32	43.31	30.90	30.45	35.08	42.75
292.5	114.93	101.84	75.23	50.53	34.85	32.03	34.06	39.25	45.68
315.0	135.34	133.54	130.94	128.35	117.75	97.33	71.62	48.16	37.78
337.5	124.51	114.25	89.89	61.69	38.01	27.18	27.18	32.03	38.01
360.0	112.11	78.61	49.85	31.47	28.31	33.61	37.56	44.32	50.30
C/ $\gamma$ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	55.38	60.68	63.50	70.72	76.47	78.95	81.54	82.45	82.11
22.5	42.75	49.63	53.46	60.11	64.63	68.69	72.75	75.00	77.71
45.0	33.27	36.43	37.67	39.25	40.38	41.28	42.29	42.86	43.08
67.5	60.79	69.93	74.10	79.85	83.35	86.51	89.89	91.92	95.87
90.0	76.69	82.56	85.72	93.27	98.80	101.17	104.44	107.03	108.50
112.5	54.14	70.15	75.68	82.33	86.73	88.76	91.02	92.93	97.11
135.0	33.16	36.54	38.35	40.83	41.73	41.96	42.18	42.52	42.86
157.5	46.81	55.72	64.17	71.17	74.89	81.99	89.33	92.14	97.11
180.0	57.97	67.67	72.52	80.53	86.05	91.47	96.77	99.59	103.76
202.5	58.20	67.33	70.83	75.68	79.85	83.35	86.62	87.75	89.21
225.0	29.89	30.34	32.14	35.75	38.46	40.15	41.28	41.62	42.07
247.5	50.87	57.97	61.24	66.09	70.83	76.92	81.43	83.57	86.05
270.0	46.92	55.38	58.76	65.08	71.17	77.82	83.91	86.84	91.02
292.5	52.22	58.76	63.16	67.45	72.52	74.89	78.27	80.64	81.88
315.0	27.63	28.08	29.10	31.02	32.48	33.05	33.38	33.38	33.50
337.5	41.17	46.35	51.32	56.28	62.71	65.87	70.15	72.75	73.65
360.0	55.38	60.68	63.50	70.72	76.47	78.95	81.54	82.45	82.11



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	80.87	80.30	79.51	78.95	78.50	77.37	76.58	75.11	72.18		
22.5	78.39	77.60	75.79	74.10	72.63	71.51	70.83	70.04	69.48		
45.0	43.08	43.08	43.31	43.53	43.99	44.32	44.32	43.99	43.42		
67.5	98.12	98.91	98.57	97.78	95.08	93.16	92.14	91.13	91.13		
90.0	109.18	109.29	108.84	107.71	106.24	104.55	103.99	103.31	102.63		
112.5	100.49	103.20	104.55	104.89	105.12	104.33	102.75	101.39	100.83		
135.0	43.08	43.08	43.20	43.31	43.53	43.76	43.87	43.87	43.65		
157.5	99.59	100.83	101.17	101.17	100.04	98.24	96.09	94.17	93.16		
180.0	105.34	105.68	105.23	104.21	102.86	101.39	100.60	98.91	97.56		
202.5	88.99	88.42	87.30	85.94	84.81	84.36	84.48	84.59	84.70		
225.0	41.84	41.50	40.83	40.60	40.49	40.60	40.72	41.28	41.84		
247.5	85.83	85.49	84.25	82.78	81.09	79.06	78.27	77.14	76.92		
270.0	92.71	93.27	93.72	93.95	93.50	92.48	91.58	89.55	87.75		
292.5	82.56	82.67	82.33	81.43	80.64	79.51	79.06	78.27	76.81		
315.0	33.72	34.06	34.51	34.85	35.53	35.98	36.43	36.88	37.22		
337.5	73.20	72.52	71.05	69.59	67.90	66.66	65.53	64.63	63.61		
360.0	80.87	80.30	79.51	78.95	78.50	77.37	76.58	75.11	72.18		
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	70.94	68.57	65.75	62.60	59.78	58.76	57.97	57.75	57.52		
22.5	69.02	68.69	68.57	68.23	68.01	67.78	67.22	66.99	66.09		
45.0	43.20	42.63	42.18	41.62	40.83	40.49	39.93	39.36	38.91		
67.5	91.47	91.81	92.14	92.48	92.37	91.92	90.90	90.11	89.33		
90.0	102.07	100.94	98.69	95.53	91.81	90.34	88.99	88.20	88.08		
112.5	100.72	101.05	101.17	101.96	101.84	101.28	99.48	98.12	94.74		
135.0	43.53	43.31	43.08	42.86	42.63	42.52	42.41	42.29	42.07		
157.5	92.03	91.02	90.45	89.78	89.21	88.65	88.08	87.75	86.96		
180.0	96.32	95.19	94.29	92.37	88.87	87.18	84.59	82.67	81.88		
202.5	84.70	84.36	84.14	83.23	82.33	81.66	80.64	79.74	78.95		
225.0	42.07	42.07	42.07	41.62	41.17	40.83	40.49	40.15	39.81		
247.5	76.47	75.79	75.34	74.78	73.99	73.42	72.52	71.28	69.93		
270.0	85.94	84.36	83.46	81.09	77.93	74.21	70.94	69.70	68.91		
292.5	76.24	75.34	74.32	73.20	71.84	71.05	69.93	68.57	67.22		
315.0	37.11	36.77	36.43	35.64	34.96	34.29	33.61	33.27	32.59		
337.5	63.05	62.14	61.35	60.57	59.78	59.32	58.42	57.75	57.41		
360.0	70.94	68.57	65.75	62.60	59.78	58.76	57.97	57.75	57.52		
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	57.07	56.73	55.72	54.70	54.14	53.23	52.11	50.87	49.40		
22.5	65.41	64.74	63.61	62.60	61.81	61.13	60.68	60.00	59.10		
45.0	38.12	37.90	37.33	36.88	36.43	35.98	35.53	35.08	34.40		
67.5	88.65	88.20	87.30	86.51	85.60	84.81	84.25	82.90	81.66		
90.0	87.75	87.63	86.73	85.72	85.04	84.14	83.01	82.11	80.64		
112.5	91.58	90.23	88.31	87.18	86.28	85.38	84.93	83.57	82.22		
135.0	41.73	41.50	41.05	40.60	40.38	40.04	39.59	39.14	38.69		
157.5	86.28	85.49	84.70	84.14	82.45	81.20	80.19	78.61	76.81		
180.0	81.66	81.54	81.09	80.53	79.63	78.61	77.82	76.36	74.89		
202.5	77.82	77.48	76.58	75.57	74.55	72.97	71.62	69.93	67.78		
225.0	39.59	39.47	39.14	38.69	38.12	37.56	37.11	36.54	35.98		
247.5	68.35	67.56	66.32	64.06	63.16	61.81	61.02	59.10	57.63		
270.0	68.23	67.90	66.77	65.41	63.95	62.37	61.47	59.78	58.54		
292.5	65.64	64.29	63.16	61.69	61.24	59.89	58.76	57.63	56.50		
315.0	31.92	31.69	31.35	31.35	31.02	30.68	30.34	29.89	29.32		
337.5	56.73	56.05	55.49	54.81	54.36	53.57	52.78	51.77	50.19		
360.0	57.07	56.73	55.72	54.70	54.14	53.23	52.11	50.87	49.40		



## 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	48.61	47.48	46.24	45.00	43.42	42.63	40.83	39.25	38.46
22.5	58.20	56.96	55.83	54.59	53.46	52.67	51.20	49.85	48.50
45.0	34.17	33.61	32.93	32.37	31.69	31.35	30.79	30.23	30.00
67.5	80.19	78.61	77.60	75.11	73.65	72.41	70.38	68.35	65.98
90.0	79.85	78.39	76.69	74.89	72.63	71.05	68.57	63.38	60.68
112.5	80.75	79.17	78.27	76.36	74.78	73.20	71.17	69.25	67.11
135.0	38.23	37.67	37.11	36.43	35.53	34.96	34.17	33.38	32.93
157.5	75.34	73.76	72.86	70.83	69.36	67.78	66.09	64.96	62.71
180.0	73.54	71.84	70.15	69.02	66.54	65.41	63.27	61.47	59.55
202.5	66.77	65.08	63.38	61.58	59.32	58.31	56.62	54.81	52.78
225.0	35.30	34.62	33.95	33.27	32.59	32.14	31.35	30.68	30.00
247.5	56.73	55.49	54.14	52.56	50.75	49.85	48.38	46.92	45.45
270.0	57.18	55.94	55.15	53.23	51.99	51.32	49.96	48.61	47.26
292.5	55.94	55.04	54.14	53.12	52.11	51.43	49.96	48.38	47.71
315.0	28.87	28.65	28.42	28.20	27.97	27.52	26.96	26.39	25.94
337.5	49.51	48.27	46.35	45.56	44.21	43.08	41.96	40.49	39.70
360.0	48.61	47.48	46.24	45.00	43.42	42.63	40.83	39.25	38.46
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	36.99	35.64	34.17	32.37	31.47	29.78	28.08	26.50	24.47
22.5	47.14	46.24	44.66	42.86	41.96	40.38	39.81	36.65	34.29
45.0	29.44	28.76	28.20	27.41	26.96	26.17	25.38	24.36	23.01
67.5	63.72	62.03	57.63	51.99	45.56	38.12	32.59	27.41	22.67
90.0	54.81	48.27	41.73	34.62	31.24	25.83	20.98	17.03	13.20
112.5	64.74	63.27	59.78	55.49	49.96	43.99	40.38	33.95	27.07
135.0	32.26	31.35	30.34	29.21	28.65	27.74	26.84	25.60	24.25
157.5	60.11	58.87	56.62	54.81	52.56	49.85	48.16	44.21	40.38
180.0	57.86	56.84	54.47	52.44	49.96	47.03	42.86	38.91	34.96
202.5	50.41	49.29	47.37	43.99	42.63	40.15	37.11	34.17	30.45
225.0	29.32	28.87	27.86	26.84	26.39	25.49	24.59	23.80	22.90
247.5	43.65	42.18	40.60	38.57	37.44	35.53	33.38	31.02	28.42
270.0	46.13	45.34	43.76	42.29	40.49	37.90	35.53	33.95	30.23
292.5	46.35	44.89	43.53	41.50	40.38	38.12	35.75	33.16	30.00
315.0	25.38	25.04	24.47	23.91	23.35	22.78	22.56	21.77	20.87
337.5	38.46	37.11	35.75	34.17	32.82	31.35	29.44	28.42	26.84
360.0	36.99	35.64	34.17	32.37	31.47	29.78	28.08	26.50	24.47
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	23.57	21.43	19.51	18.83	16.80	15.00	13.20	11.28	10.49
22.5	32.71	29.78	27.52	25.38	23.46	22.22	19.85	17.82	15.68
45.0	22.22	20.41	18.72	16.92	15.56	14.32	13.08	11.73	11.05
67.5	20.19	15.90	13.08	11.05	9.59	9.14	8.57	8.23	7.89
90.0	10.83	9.02	7.78	7.33	6.99	6.77	6.54	6.20	6.09
112.5	24.25	20.19	16.13	13.53	11.62	10.60	9.59	9.02	8.57
135.0	23.23	20.75	18.72	17.82	16.13	14.77	13.42	11.84	11.05
157.5	36.32	32.48	30.45	26.73	23.01	21.54	19.40	16.69	14.55
180.0	32.82	28.76	25.94	23.46	21.09	19.85	17.37	15.23	12.97
202.5	28.87	26.39	24.14	22.11	19.74	17.71	15.79	13.42	12.29
225.0	22.44	21.20	19.96	18.72	17.48	16.69	15.34	14.21	13.08
247.5	27.18	25.04	21.99	20.87	19.06	17.93	15.23	12.97	11.96
270.0	28.76	25.94	23.68	21.54	19.40	18.16	15.90	13.87	11.96
292.5	28.53	25.26	22.67	21.43	19.40	17.48	15.56	13.42	12.41
315.0	20.53	19.51	18.61	17.59	16.69	16.13	15.00	13.99	13.08
337.5	25.15	23.68	21.88	20.98	19.40	17.71	15.90	13.65	12.63
360.0	23.57	21.43	19.51	18.83	16.80	15.00	13.20	11.28	10.49



Intensity data(cd)										Appendix Page: 22 Total:25	
C/ $\gamma$ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	9.36	8.57	8.01	7.56	7.44	6.88	6.54	6.43	6.20		
22.5	13.31	11.62	10.15	9.14	8.80	8.23	8.01	7.78	7.44		
45.0	10.04	9.14	8.35	7.89	7.67	7.33	7.11	7.11	6.77		
67.5	7.78	7.56	7.22	6.99	6.88	6.54	6.43	6.20	5.98		
90.0	5.75	5.30	4.96	4.51	4.40	4.06	3.83	3.72	3.61		
112.5	8.23	8.01	7.56	7.33	7.11	6.88	6.54	6.20	5.98		
135.0	9.47	8.91	8.12	7.56	7.33	7.11	6.77	6.77	6.54		
157.5	12.41	11.39	9.70	8.57	8.01	7.56	7.44	7.22	6.88		
180.0	10.71	10.15	8.35	7.11	6.88	6.43	6.20	5.98	5.75		
202.5	10.71	9.47	8.57	8.01	7.78	7.56	7.33	7.11	6.77		
225.0	11.84	10.94	10.04	9.14	8.91	8.46	8.01	7.78	7.56		
247.5	10.38	9.25	8.46	8.01	7.78	7.44	7.33	6.99	6.65		
270.0	10.26	8.68	7.78	7.22	6.99	6.54	6.09	5.75	5.41		
292.5	10.94	9.70	9.02	8.46	8.23	7.89	7.44	7.33	6.99		
315.0	12.18	11.62	10.49	9.70	9.14	8.68	8.46	8.23	7.89		
337.5	10.60	9.93	9.02	8.68	8.46	8.12	7.89	7.78	7.56		
360.0	9.36	8.57	8.01	7.56	7.44	6.88	6.54	6.43	6.20		
C/ $\gamma$ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0		
0.0	5.86	5.75	5.64	5.53	5.41	5.30	5.19	5.08	5.08		
22.5	7.33	7.11	6.88	6.77	6.54	6.54	6.32	6.20	6.09		
45.0	6.77	6.43	6.32	6.32	6.09	5.98	5.86	5.64	5.64		
67.5	5.86	5.64	5.41	5.30	5.08	5.08	4.85	4.74	4.62		
90.0	3.50	3.27	3.27	3.16	3.16	3.05	2.93	2.82	2.71		
112.5	5.86	5.64	5.41	5.30	5.08	4.96	4.74	4.62	4.62		
135.0	6.32	6.09	5.98	5.86	5.75	5.53	5.53	5.30	5.19		
157.5	6.65	6.32	6.09	5.98	5.86	5.75	5.53	5.41	5.30		
180.0	5.64	5.41	5.08	4.96	4.74	4.62	4.51	4.40	4.40		
202.5	6.77	6.32	6.20	6.09	5.98	5.86	5.64	5.64	5.53		
225.0	7.33	7.11	6.77	6.65	6.65	6.43	6.20	6.09	6.09		
247.5	6.54	6.32	6.09	5.98	5.86	5.75	5.64	5.53	5.41		
270.0	5.19	4.85	4.62	4.51	4.29	4.29	4.06	3.95	4.06		
292.5	6.88	6.65	6.43	6.43	6.32	6.09	5.98	5.86	5.86		
315.0	7.78	7.56	7.44	7.22	7.11	6.99	6.77	6.65	6.65		
337.5	7.33	7.11	6.99	6.88	6.65	6.54	6.43	6.32	6.20		
360.0	5.86	5.75	5.64	5.53	5.41	5.30	5.19	5.08	5.08		
C/ $\gamma$ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0		
0.0	4.96	4.85	4.74	4.74	4.74	4.51	4.51	4.40	4.40		
22.5	5.98	5.75	5.75	5.64	5.53	5.41	5.30	5.30	5.19		
45.0	5.64	5.41	5.30	5.19	5.08	4.96	4.96	4.74	4.74		
67.5	4.51	4.40	4.40	4.29	4.17	4.17	3.95	3.83	3.72		
90.0	2.71	2.59	2.48	2.48	2.37	2.37	2.26	2.26	2.14		
112.5	4.40	4.29	4.17	4.06	4.06	3.95	3.83	3.72	3.61		
135.0	5.08	4.85	4.85	4.74	4.51	4.40	4.29	4.29	4.17		
157.5	5.19	5.19	5.08	4.96	4.74	4.62	4.62	4.51	4.40		
180.0	4.29	4.17	4.17	4.06	3.95	3.83	3.72	3.61	3.61		
202.5	5.30	5.19	5.08	4.96	4.85	4.85	4.74	4.62	4.51		
225.0	5.86	5.86	5.75	5.53	5.53	5.41	5.30	5.19	5.08		
247.5	5.30	5.19	5.08	4.96	4.96	4.85	4.74	4.74	4.62		
270.0	3.95	3.83	3.72	3.72	3.72	3.61	3.50	3.50	3.50		
292.5	5.64	5.53	5.53	5.41	5.30	5.19	5.08	5.08	4.96		
315.0	6.54	6.43	6.32	6.20	6.20	5.98	5.98	5.86	5.64		
337.5	6.09	5.98	5.86	5.86	5.75	5.64	5.53	5.41	5.30		
360.0	4.96	4.85	4.74	4.74	4.74	4.51	4.51	4.40	4.40		



## Intensity data(cd)

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C/ $\gamma$ (°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	4.29	4.17	4.17	4.17	4.06	4.06	3.95	3.83	3.95
22.5	5.08	4.96	4.96	4.85	4.74	4.62	4.62	4.51	4.51
45.0	4.62	4.51	4.51	4.29	4.29	4.17	4.06	4.06	4.06
67.5	3.72	3.61	3.50	3.50	3.38	3.38	3.16	3.16	3.16
90.0	2.03	2.03	1.92	1.80	1.69	1.35	1.35	1.24	1.13
112.5	3.50	3.38	3.27	3.27	3.05	3.16	3.05	2.93	2.82
135.0	4.06	3.95	3.83	3.72	3.61	3.50	3.50	3.38	3.38
157.5	4.29	4.17	4.06	4.06	3.83	3.83	3.72	3.72	3.61
180.0	3.50	3.50	3.38	3.27	3.27	3.16	3.16	3.05	2.93
202.5	4.40	4.29	4.17	4.17	4.06	3.95	3.83	3.72	3.72
225.0	4.96	4.85	4.74	4.62	4.62	4.40	4.51	4.29	4.40
247.5	4.51	4.40	4.29	4.29	4.29	4.06	4.06	3.83	3.95
270.0	3.38	3.27	3.27	3.27	3.27	3.16	3.16	3.05	3.05
292.5	4.96	4.85	4.74	4.62	4.62	4.40	4.29	4.29	4.29
315.0	5.64	5.53	5.53	5.41	5.30	5.19	5.08	4.96	4.96
337.5	5.19	5.19	5.08	4.96	4.85	4.85	4.74	4.62	4.51
360.0	4.29	4.17	4.17	4.17	4.06	4.06	3.95	3.83	3.95
C/ $\gamma$ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	3.83	3.72	3.72	3.61	3.61	3.50	3.50	3.50	3.38
22.5	4.29	4.29	4.17	4.17	3.95	3.95	3.83	3.83	3.72
45.0	3.83	3.72	3.72	3.61	3.61	3.50	3.50	3.38	3.16
67.5	2.93	2.93	2.82	2.71	2.71	2.71	2.48	2.48	2.37
90.0	1.02	1.24	1.02	1.24	1.24	1.13	1.24	1.35	1.24
112.5	2.71	2.71	2.59	2.59	2.48	2.37	2.37	2.26	2.26
135.0	3.27	3.16	3.05	3.05	2.93	2.82	2.82	2.82	2.59
157.5	3.50	3.38	3.38	3.16	3.16	3.16	2.93	2.93	2.82
180.0	2.93	2.93	2.82	2.82	2.71	2.59	2.37	2.26	2.14
202.5	3.61	3.50	3.38	3.38	3.27	3.16	3.05	3.05	2.93
225.0	4.17	4.17	4.06	3.83	3.95	3.72	3.72	3.61	3.50
247.5	3.83	3.72	3.61	3.61	3.61	3.50	3.38	3.27	3.38
270.0	2.93	2.82	2.71	2.59	2.48	2.59	2.37	2.37	2.37
292.5	4.17	3.95	3.95	3.83	3.83	3.72	3.61	3.61	3.61
315.0	4.85	4.74	4.74	4.62	4.62	4.40	4.40	4.29	4.17
337.5	4.51	4.40	4.29	4.17	4.06	4.06	3.95	3.95	3.83
360.0	3.83	3.72	3.72	3.61	3.61	3.50	3.50	3.50	3.38
C/ $\gamma$ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	3.38	3.27	3.27	3.16	3.05	3.16	2.93	2.82	2.82
22.5	3.61	3.61	3.50	3.50	3.38	3.27	3.27	3.16	3.05
45.0	3.05	3.05	3.05	2.93	2.82	2.82	2.71	2.59	2.48
67.5	2.26	2.26	2.14	2.14	2.03	2.03	1.92	1.80	1.80
90.0	1.24	1.35	1.24	1.35	1.35	1.13	1.24	1.13	1.24
112.5	2.14	2.03	2.03	2.03	1.92	1.92	1.80	1.80	1.69
135.0	2.59	2.48	2.37	2.37	2.26	2.26	2.14	2.14	2.03
157.5	2.82	2.71	2.59	2.59	2.48	2.48	2.37	2.37	2.37
180.0	1.92	1.92	1.80	1.69	1.58	1.47	1.47	1.35	1.35
202.5	2.93	2.82	2.71	2.71	2.59	2.59	2.48	2.37	2.37
225.0	3.38	3.27	3.27	3.16	3.16	2.93	2.93	2.82	2.82
247.5	3.16	3.16	3.05	3.05	2.93	2.82	2.82	2.71	2.71
270.0	2.26	2.37	2.26	2.26	2.26	2.26	2.26	2.26	2.26
292.5	3.38	3.38	3.27	3.16	3.05	3.05	2.93	2.93	2.82
315.0	4.06	4.06	3.95	3.83	3.72	3.61	3.61	3.50	3.38
337.5	3.72	3.72	3.61	3.50	3.50	3.27	3.38	3.27	3.16
360.0	3.38	3.27	3.27	3.16	3.05	3.16	2.93	2.82	2.82



## Intensity data(cd)

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C/ $\gamma$ (°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	2.71	2.59	2.48	2.37	2.26	2.26	2.14	2.14	2.03
22.5	2.93	2.93	2.82	2.82	2.71	2.59	2.59	2.48	2.37
45.0	2.37	2.37	2.37	2.14	2.14	2.14	2.03	1.92	1.92
67.5	1.69	1.69	1.69	1.58	1.47	1.47	1.47	1.35	1.35
90.0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
112.5	1.69	1.58	1.58	1.47	1.47	1.47	1.35	1.35	1.35
135.0	2.03	1.92	1.92	1.80	1.80	1.69	1.69	1.69	1.58
157.5	2.26	2.14	2.14	2.03	2.03	1.92	1.92	1.80	1.80
180.0	1.35	1.47	1.47	1.47	1.47	1.47	1.35	1.35	1.35
202.5	2.26	2.14	2.14	2.03	2.03	2.03	1.92	1.80	1.80
225.0	2.71	2.59	2.59	2.48	2.37	2.37	2.37	2.26	2.26
247.5	2.59	2.37	2.48	2.37	2.37	2.26	2.26	2.14	2.03
270.0	2.14	2.14	2.14	2.14	2.03	2.03	2.03	1.92	1.92
292.5	2.71	2.71	2.59	2.48	2.37	2.37	2.26	2.26	2.14
315.0	3.27	3.27	3.16	3.05	2.93	2.82	2.82	2.71	2.59
337.5	3.05	2.93	2.82	2.82	2.71	2.59	2.59	2.48	2.37
360.0	2.71	2.59	2.48	2.37	2.26	2.26	2.14	2.14	2.03
C/ $\gamma$ (°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	1.92	2.03	1.92	1.92	1.80	1.80	1.80	1.69	1.69
22.5	2.37	2.14	2.14	2.14	1.92	1.92	1.80	1.69	1.69
45.0	1.80	1.80	1.69	1.69	1.69	1.58	1.58	1.47	1.35
67.5	1.35	1.24	1.24	1.13	1.24	1.13	1.13	1.13	1.13
90.0	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
112.5	1.35	1.24	1.24	1.24	1.24	1.13	1.13	1.13	1.13
135.0	1.58	1.47	1.47	1.47	1.47	1.35	1.35	1.24	1.24
157.5	1.69	1.69	1.58	1.58	1.47	1.47	1.47	1.35	1.35
180.0	1.47	1.47	1.47	1.47	1.47	1.35	1.35	1.35	1.35
202.5	1.80	1.69	1.69	1.58	1.58	1.47	1.47	1.47	1.47
225.0	2.14	2.03	2.03	1.92	1.92	1.80	1.80	1.69	1.69
247.5	2.03	1.92	1.92	1.80	1.80	1.69	1.69	1.58	1.47
270.0	1.92	1.80	1.80	1.80	1.69	1.69	1.69	1.58	1.58
292.5	2.03	2.03	1.92	1.80	1.80	1.69	1.69	1.58	1.47
315.0	2.48	2.48	2.26	2.26	2.14	2.14	2.03	1.92	1.80
337.5	2.26	2.26	2.14	2.03	2.03	1.92	1.80	1.80	1.69
360.0	1.92	2.03	1.92	1.92	1.80	1.80	1.80	1.69	1.69
C/ $\gamma$ (°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	1.58	1.58	1.47	1.35	1.35	1.35	1.24	1.35	1.24
22.5	1.58	1.58	1.35	1.35	1.35	1.24	1.24	1.13	1.13
45.0	1.35	1.24	1.24	1.24	1.24	1.13	1.13	1.13	1.02
67.5	1.02	1.02	1.13	1.02	1.13	1.02	1.02	0.90	0.90
90.0	0.90	1.02	0.90	1.02	0.90	0.90	0.79	0.90	0.90
112.5	1.02	1.02	1.02	1.02	1.02	0.90	1.02	0.90	1.02
135.0	1.24	1.24	1.13	1.13	1.13	1.13	1.13	1.02	1.02
157.5	1.24	1.24	1.24	1.13	1.13	1.13	1.13	1.02	1.13
180.0	1.35	1.35	1.24	1.24	1.24	1.24	1.24	1.24	1.13
202.5	1.35	1.35	1.35	1.24	1.24	1.24	1.13	1.13	1.13
225.0	1.58	1.58	1.47	1.47	1.35	1.24	1.24	1.24	1.24
247.5	1.47	1.47	1.35	1.24	1.24	1.24	1.13	1.13	1.13
270.0	1.58	1.58	1.58	1.47	1.35	1.35	1.24	1.24	1.24
292.5	1.47	1.35	1.35	1.24	1.24	1.24	1.24	1.13	1.13
315.0	1.80	1.69	1.69	1.58	1.47	1.35	1.35	1.24	1.24
337.5	1.69	1.58	1.47	1.47	1.35	1.35	1.35	1.24	1.24
360.0	1.58	1.58	1.47	1.35	1.35	1.35	1.24	1.35	1.24



Intensity data(cd)									Appendix Page: 25 Total:25	
C/ $\gamma$ (°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0	
0.0	1.13	1.24	1.02	1.02	1.02	1.02	0.90	1.02	1.02	
22.5	1.13	1.02	1.02	1.02	1.02	1.02	0.90	0.90	0.90	
45.0	1.02	1.02	0.90	1.02	0.79	0.90	0.90	0.90	0.90	
67.5	0.90	0.90	0.79	1.02	0.90	0.90	0.90	0.90	0.90	
90.0	0.90	0.79	0.79	0.79	0.90	0.90	0.79	0.90	0.90	
112.5	0.90	0.90	0.90	0.90	0.90	0.79	0.90	0.79	0.90	
135.0	1.02	1.02	1.02	0.90	1.02	0.90	0.79	0.79	0.90	
157.5	1.13	1.13	1.02	1.02	1.02	1.02	1.02	0.90	0.90	
180.0	1.13	1.13	1.13	1.02	1.02	1.02	1.02	0.90	0.90	
202.5	1.13	1.13	1.02	1.02	1.02	1.02	0.90	0.90	0.90	
225.0	1.13	1.13	1.02	1.02	1.02	0.90	0.90	1.02	0.79	
247.5	1.13	1.02	1.02	1.02	0.90	0.90	0.90	0.90	1.02	
270.0	1.13	1.13	1.02	1.02	1.02	1.02	1.02	1.02	1.02	
292.5	1.02	1.02	1.02	1.02	0.90	0.90	0.90	1.02	0.90	
315.0	1.13	1.13	1.13	1.02	1.02	0.90	0.90	0.79	0.90	
337.5	1.13	1.13	1.13	1.02	1.02	1.02	1.02	0.90	1.02	
360.0	1.13	1.24	1.02	1.02	1.02	1.02	0.90	1.02	1.02	
C/ $\gamma$ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0	
0.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
22.5	0.90	0.90	0.90	0.90	0.90	0.90	0.79	1.02	0.90	
45.0	1.02	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
67.5	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
90.0	0.90	0.90	1.02	0.90	0.90	0.90	0.90	0.90	0.90	
112.5	0.79	0.90	1.02	0.90	0.90	1.02	0.79	0.90	1.02	
135.0	1.02	0.90	0.79	0.90	0.79	0.90	0.90	0.90	0.90	
157.5	0.90	0.90	0.79	0.79	1.02	0.79	0.79	0.90	0.90	
180.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
202.5	1.02	0.90	0.90	1.02	0.90	0.90	0.90	1.02	1.02	
225.0	0.90	0.90	1.02	1.02	0.90	0.90	0.90	0.90	1.02	
247.5	0.90	0.90	0.90	0.90	0.90	0.90	0.90	1.02	0.90	
270.0	0.90	0.90	0.90	1.02	0.90	0.90	0.90	1.02	0.90	
292.5	0.90	0.90	0.90	0.90	0.90	1.02	1.02	0.79	0.90	
315.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	1.02	
337.5	0.79	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
360.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
C/ $\gamma$ (°)	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									