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NATA

LumCAT: CR01D03503BV

Luminaire:

Report No: NATA0100

Test No: GC2018112202

LampCAT: CREE XPE2

Lamp flux(lm): 61.3

Number of Lamps: 1

Length(mm): 35

Phm Type: C

Voltage(V): 3.2000

Current(A): 0.2300

Power (W): 0.7360

PF: 0.0000

Ballast type: DC

Width(mm): 35

Height(mm): 0

Photometric Results

Lumens(lm): 58.44

Efficiency(%): 95.36%

Lumens(lm)/Power(W): 79.40

Central intensity(cd): 3569.344

Maximum intensity(cd): 3569.344

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=4.6

[C90/270]Total=4.6

Field angle(10%Imax): [C0/180]Total=9.7

[C90/270]Total=9.7

Maximum s/h(1/2): C0_180=0.08 C90_270=0.08

Maximum s/h(1/4): C0_180=0.08 C90_270=0.08

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.71%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 93.893%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3569.344	0.213	0.213	.348%	.365%
0.5	3358.880	1.607	1.821	2.623%	3.116%
1.0	2989.943	2.861	4.682	4.669%	8.012%
1.5	2566.409	3.684	8.365	6.011%	14.316%
2.0	2101.507	4.021	12.387	6.562%	21.198%
2.5	1558.249	3.727	16.114	6.082%	27.575%
3.0	1017.581	2.920	19.034	4.765%	32.572%
3.5	737.817	2.470	21.503	4.030%	36.799%
4.0	560.353	2.143	23.647	3.497%	40.467%
4.5	414.471	1.783	25.43	2.910%	43.518%
5.0	329.025	1.572	27.002	2.566%	46.209%
5.5	277.648	1.459	28.461	2.381%	48.706%
6.0	244.786	1.403	29.864	2.289%	51.107%
6.5	218.998	1.359	31.224	2.218%	53.433%
7.0	196.397	1.312	32.536	2.142%	55.679%
7.5	177.638	1.271	33.807	2.075%	57.854%
8.0	159.190	1.215	35.022	1.982%	59.933%
8.5	139.955	1.134	36.156	1.851%	61.874%
9.0	125.520	1.077	37.233	1.757%	63.717%
9.5	111.598	1.010	38.243	1.648%	65.445%
10.0	99.776	0.950	39.193	1.550%	67.071%
10.5	88.545	0.885	40.078	1.444%	68.585%
11.0	79.465	0.831	40.909	1.357%	70.008%
11.5	70.678	0.773	41.682	1.261%	71.330%
12.0	62.855	0.717	42.398	1.169%	72.556%
12.5	55.088	0.654	43.052	1.067%	73.675%
13.0	48.448	0.598	43.649	.975%	74.697%
13.5	42.553	0.545	44.194	.889%	75.630%
14.0	37.976	0.504	44.698	.822%	76.492%
14.5	33.731	0.463	45.161	.756%	77.284%
15.0	30.391	0.431	45.592	.704%	78.022%
15.5	27.321	0.400	45.993	.653%	78.707%
16.0	24.523	0.371	46.363	.605%	79.341%
16.5	22.109	0.344	46.708	.562%	79.931%
17.0	20.149	0.323	47.031	.527%	80.483%
17.5	18.356	0.303	47.333	.494%	81.001%
18.0	16.870	0.286	47.619	.466%	81.491%
18.5	15.427	0.268	47.887	.438%	81.950%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
19.0	14.236	0.254	48.142	.415%	82.385%
19.5	13.090	0.240	48.381	.391%	82.795%
20.0	12.077	0.226	48.608	.370%	83.182%
20.5	11.065	0.212	48.82	.347%	83.546%
21.0	10.174	0.200	49.02	.326%	83.888%
21.5	9.413	0.189	49.209	.309%	84.212%
22.0	8.773	0.180	49.389	.294%	84.520%
22.5	8.161	0.171	49.561	.279%	84.813%
23.0	7.641	0.164	49.724	.267%	85.093%
23.5	7.111	0.155	49.88	.254%	85.359%
24.0	6.605	0.147	50.027	.240%	85.611%
24.5	6.127	0.139	50.166	.227%	85.850%
25.0	5.726	0.133	50.299	.217%	86.077%
25.5	5.339	0.126	50.425	.206%	86.293%
26.0	5.016	0.121	50.546	.197%	86.499%
26.5	4.685	0.115	50.66	.187%	86.695%
27.0	4.364	0.109	50.769	.177%	86.881%
27.5	4.083	0.103	50.872	.169%	87.058%
28.0	3.848	0.099	50.971	.162%	87.227%
28.5	3.633	0.095	51.066	.155%	87.390%
29.0	3.455	0.092	51.158	.150%	87.547%
29.5	3.279	0.089	51.247	.144%	87.699%
30.0	3.138	0.086	51.333	.140%	87.846%
30.5	2.991	0.083	51.416	.136%	87.988%
31.0	2.859	0.081	51.497	.132%	88.127%
31.5	2.742	0.079	51.575	.128%	88.261%
32.0	2.625	0.076	51.652	.124%	88.391%
32.5	2.541	0.075	51.726	.122%	88.520%
33.0	2.440	0.073	51.799	.119%	88.644%
33.5	2.370	0.072	51.871	.117%	88.767%
34.0	2.292	0.070	51.941	.115%	88.887%
34.5	2.210	0.069	52.01	.112%	89.005%
35.0	2.147	0.068	52.077	.110%	89.120%
35.5	2.079	0.066	52.144	.108%	89.234%
36.0	2.023	0.065	52.209	.106%	89.345%
36.5	1.964	0.064	52.273	.105%	89.455%
37.0	1.924	0.063	52.336	.104%	89.563%
37.5	1.880	0.063	52.399	.102%	89.671%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1.835	0.062	52.461	.101%	89.777%
38.5	1.800	0.061	52.522	.100%	89.882%
39.0	1.746	0.060	52.583	.098%	89.985%
39.5	1.716	0.060	52.643	.098%	90.087%
40.0	1.680	0.059	52.702	.097%	90.189%
40.5	1.650	0.059	52.761	.096%	90.289%
41.0	1.631	0.059	52.819	.096%	90.390%
41.5	1.601	0.058	52.877	.095%	90.489%
42.0	1.580	0.058	52.935	.095%	90.588%
42.5	1.545	0.057	52.993	.093%	90.686%
43.0	1.521	0.057	53.049	.093%	90.784%
43.5	1.505	0.057	53.106	.093%	90.881%
44.0	1.488	0.057	53.163	.093%	90.978%
44.5	1.477	0.057	53.22	.093%	91.075%
45.0	1.453	0.056	53.276	.092%	91.171%
45.5	1.439	0.056	53.332	.092%	91.268%
46.0	1.434	0.057	53.389	.092%	91.365%
46.5	1.423	0.057	53.445	.092%	91.461%
47.0	1.413	0.057	53.502	.092%	91.558%
47.5	1.406	0.057	53.559	.093%	91.656%
48.0	1.399	0.057	53.616	.093%	91.753%
48.5	1.395	0.057	53.673	.093%	91.851%
49.0	1.385	0.057	53.731	.094%	91.949%
49.5	1.373	0.057	53.788	.093%	92.047%
50.0	1.371	0.058	53.845	.094%	92.146%
50.5	1.378	0.058	53.904	.095%	92.246%
51.0	1.373	0.059	53.962	.096%	92.346%
51.5	1.376	0.059	54.021	.096%	92.447%
52.0	1.373	0.059	54.081	.097%	92.548%
52.5	1.376	0.060	54.14	.098%	92.651%
53.0	1.371	0.060	54.201	.098%	92.754%
53.5	1.369	0.060	54.261	.098%	92.857%
54.0	1.359	0.060	54.321	.098%	92.960%
54.5	1.362	0.061	54.382	.099%	93.064%
55.0	1.366	0.061	54.443	.100%	93.169%
55.5	1.352	0.061	54.504	.100%	93.274%
56.0	1.355	0.062	54.566	.100%	93.379%
56.5	1.352	0.062	54.628	.101%	93.485%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
57.0	1.345	0.062	54.69	.101%	93.591%
57.5	1.348	0.062	54.752	.102%	93.697%
58.0	1.338	0.062	54.814	.102%	93.804%
58.5	1.338	0.063	54.877	.102%	93.911%
59.0	1.338	0.063	54.94	.103%	94.019%
59.5	1.341	0.063	55.003	.103%	94.127%
60.0	1.329	0.063	55.066	.103%	94.235%
60.5	1.331	0.064	55.13	.104%	94.344%
61.0	1.336	0.064	55.194	.105%	94.453%
61.5	1.331	0.064	55.258	.105%	94.563%
62.0	1.336	0.065	55.323	.106%	94.674%
62.5	1.331	0.065	55.387	.106%	94.784%
63.0	1.331	0.065	55.452	.106%	94.896%
63.5	1.341	0.066	55.518	.107%	95.008%
64.0	1.355	0.067	55.585	.109%	95.123%
64.5	1.350	0.067	55.652	.109%	95.237%
65.0	1.348	0.067	55.719	.109%	95.352%
65.5	1.352	0.067	55.786	.110%	95.467%
66.0	1.362	0.068	55.854	.111%	95.584%
66.5	1.364	0.069	55.923	.112%	95.701%
67.0	1.359	0.069	55.992	.112%	95.819%
67.5	1.357	0.069	56.06	.112%	95.936%
68.0	1.357	0.069	56.129	.113%	96.054%
68.5	1.352	0.069	56.198	.113%	96.172%
69.0	1.352	0.069	56.268	.113%	96.291%
69.5	1.343	0.069	56.337	.113%	96.409%
70.0	1.341	0.069	56.406	.113%	96.527%
70.5	1.331	0.069	56.474	.112%	96.645%
71.0	1.320	0.068	56.543	.112%	96.762%
71.5	1.317	0.068	56.611	.112%	96.879%
72.0	1.315	0.069	56.68	.112%	96.996%
72.5	1.308	0.068	56.748	.112%	97.113%
73.0	1.294	0.068	56.816	.111%	97.230%
73.5	1.282	0.067	56.883	.110%	97.345%
74.0	1.280	0.067	56.951	.110%	97.460%
74.5	1.256	0.066	57.017	.108%	97.574%
75.0	1.230	0.065	57.082	.106%	97.685%
75.5	1.207	0.064	57.147	.105%	97.795%

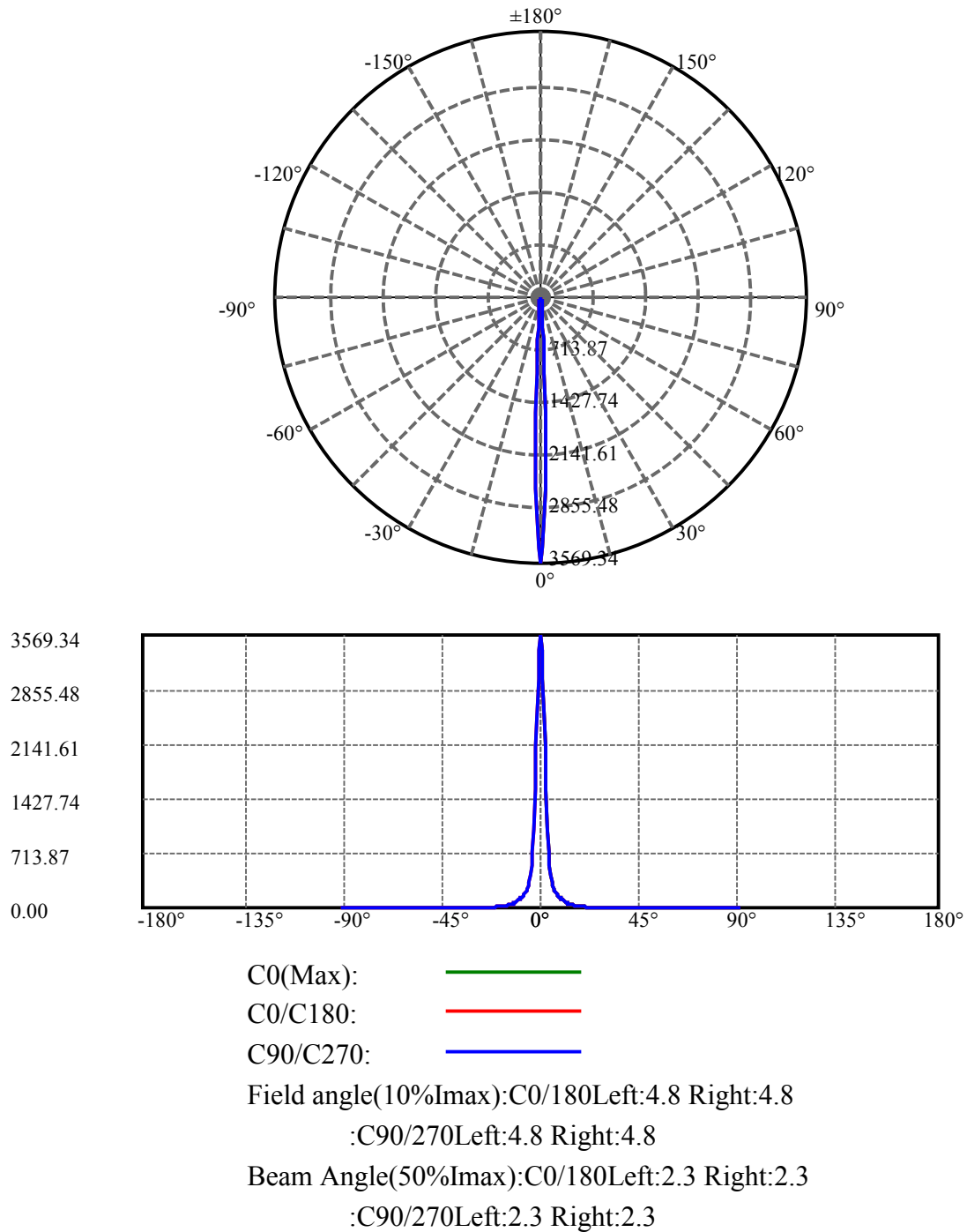
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.188	0.063	57.21	.103%	97.903%
76.5	1.179	0.063	57.273	.103%	98.011%
77.0	1.158	0.062	57.334	.101%	98.117%
77.5	1.139	0.061	57.395	.100%	98.221%
78.0	1.113	0.060	57.455	.097%	98.323%
78.5	1.102	0.059	57.514	.097%	98.424%
79.0	1.088	0.059	57.573	.096%	98.525%
79.5	1.059	0.057	57.63	.093%	98.622%
80.0	1.045	0.056	57.686	.092%	98.719%
80.5	1.029	0.056	57.742	.091%	98.814%
81.0	1.020	0.055	57.797	.090%	98.909%
81.5	0.991	0.054	57.851	.088%	99.001%
82.0	0.968	0.053	57.904	.086%	99.091%
82.5	0.961	0.052	57.956	.085%	99.180%
83.0	0.928	0.051	58.006	.082%	99.266%
83.5	0.900	0.049	58.055	.080%	99.350%
84.0	0.881	0.048	58.103	.078%	99.433%
84.5	0.855	0.047	58.15	.076%	99.512%
85.0	0.841	0.046	58.196	.075%	99.591%
85.5	0.792	0.043	58.239	.071%	99.665%
86.0	0.734	0.040	58.28	.065%	99.734%
86.5	0.621	0.034	58.314	.055%	99.792%
87.0	0.492	0.027	58.34	.044%	99.838%
87.5	0.401	0.022	58.362	.036%	99.876%
88.0	0.328	0.018	58.38	.029%	99.907%
88.5	0.305	0.017	58.397	.027%	99.935%
89.0	0.293	0.016	58.413	.026%	99.963%
89.5	0.270	0.015	58.428	.024%	99.988%
90.0	0.258	0.007	58.435	.012%	100.000%

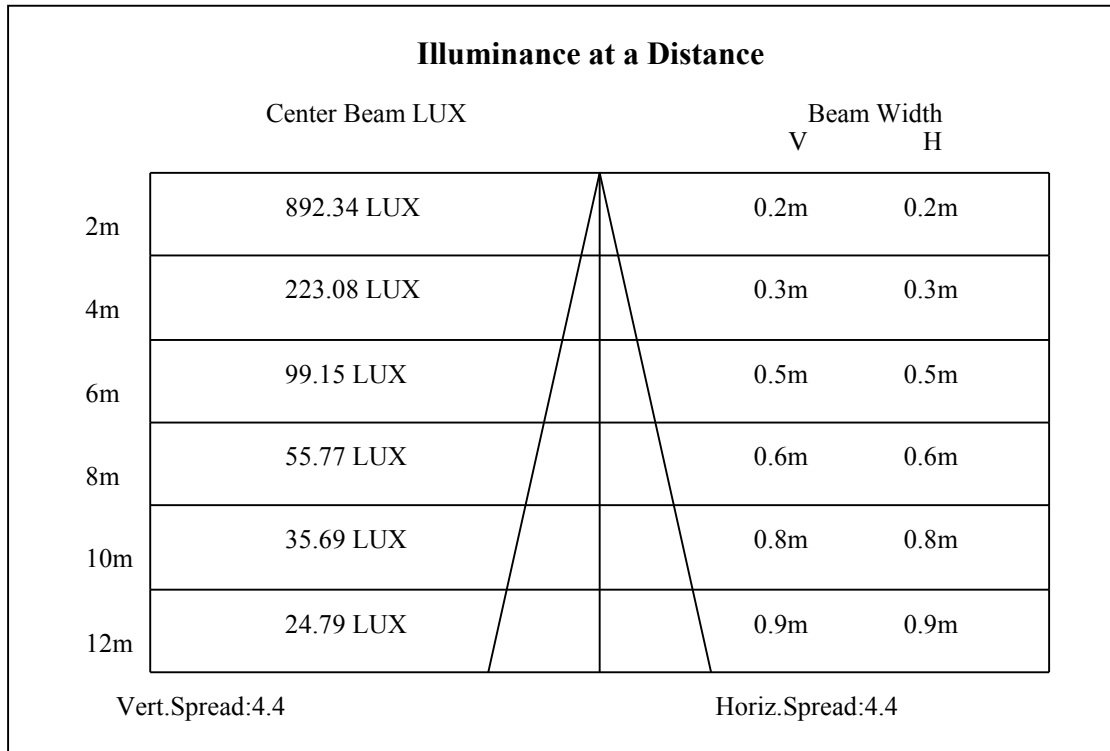
ZONAL LUMEN SUMMARY

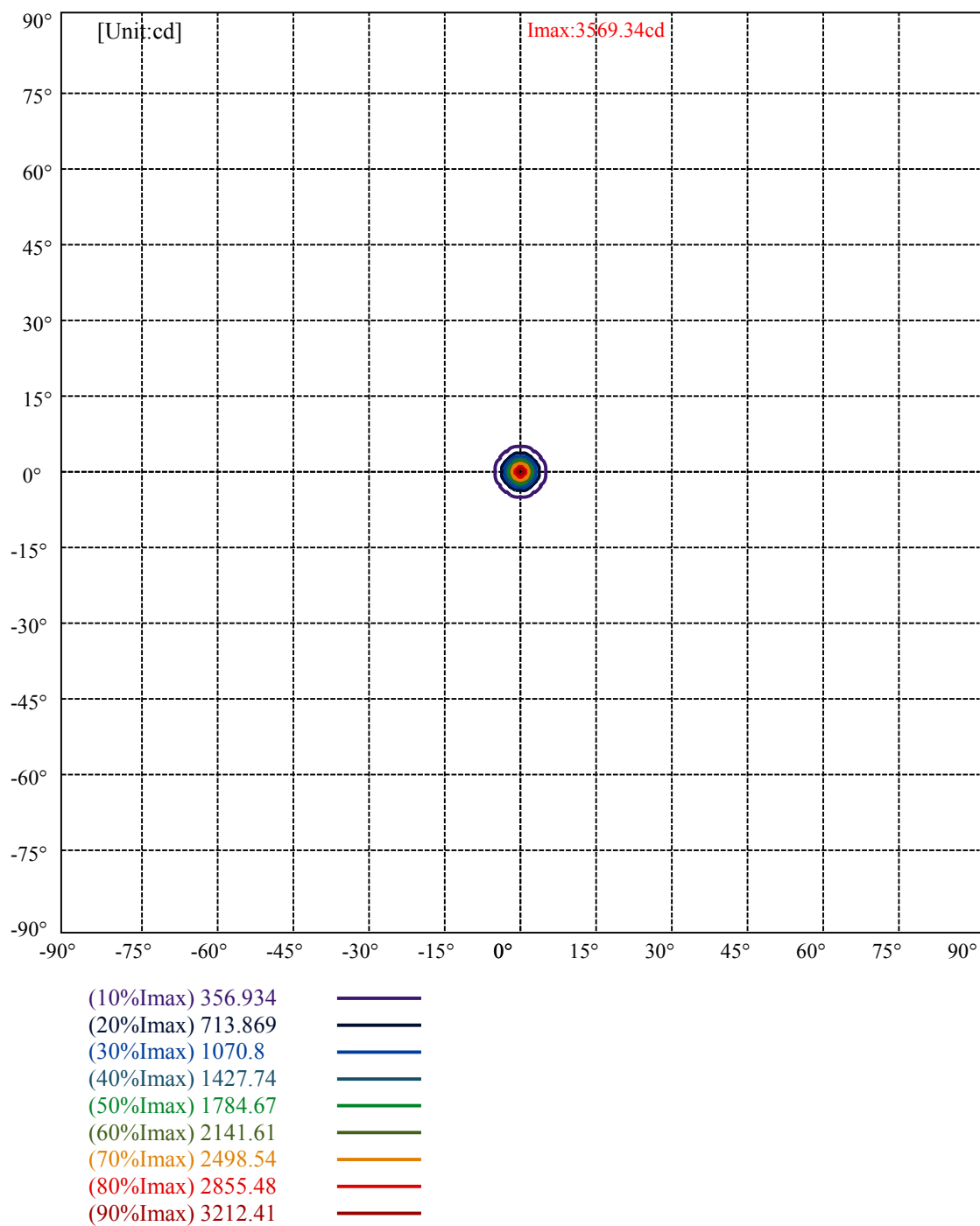
Zone	Lumens	%Lamp	%Fixt
0-30	51.33	83.77%	87.85%
0-40	52.70	86.00%	90.19%
0-60	55.07	89.86%	94.23%
0-90	58.43	95.35%	99.99%
0-120	58.43	95.35%	99.99%
0-180	58.44	95.36%	100.00%
60-90	3.42	5.59%	5.86%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-16.56	46.75	76.29%	80.00%

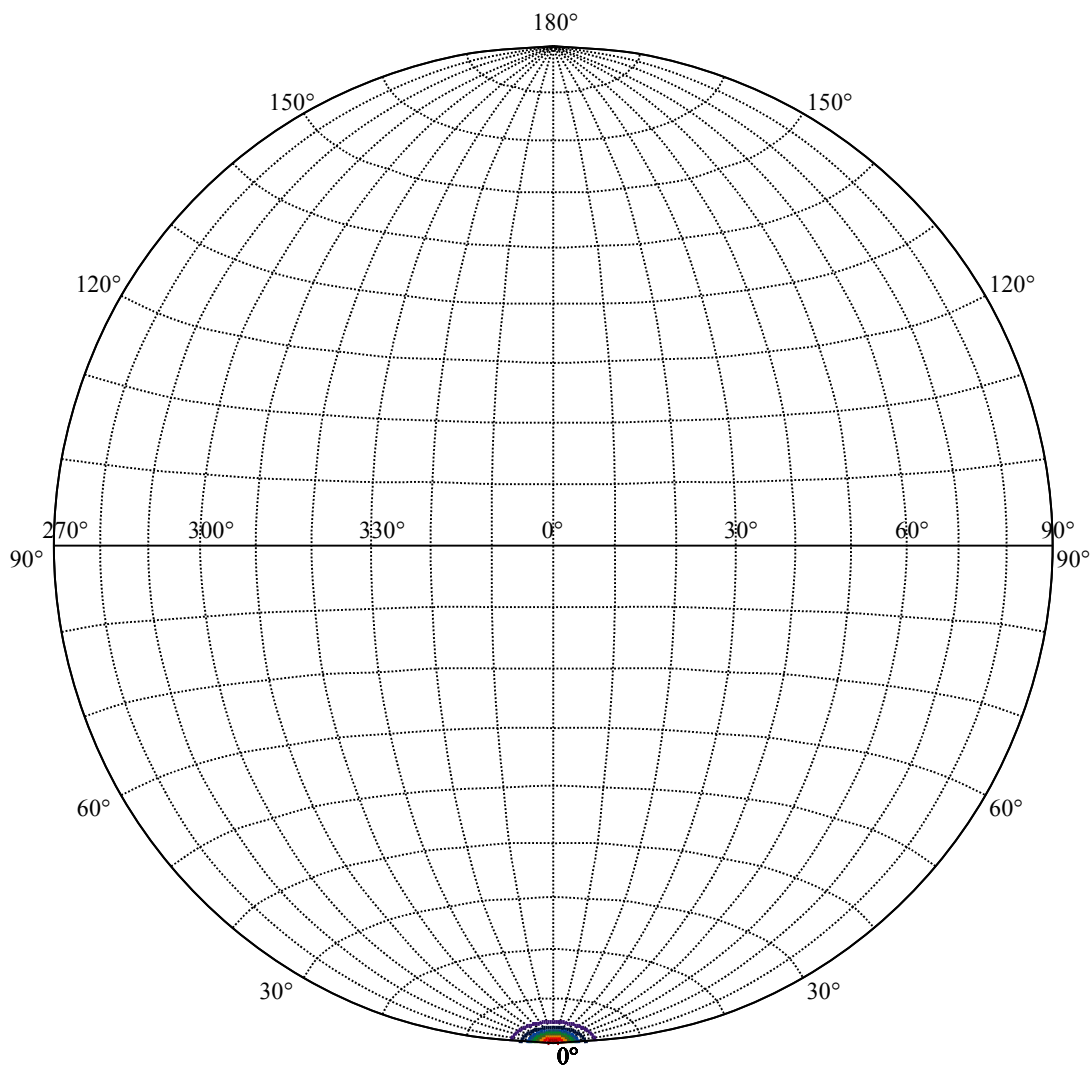
ZONAL LUMEN SUMMARY

0-10	39.19
10-20	9.41
20-30	2.73
30-40	1.37
40-50	1.14
50-60	1.22
60-70	1.34
70-80	1.28
80-90	0.74
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00









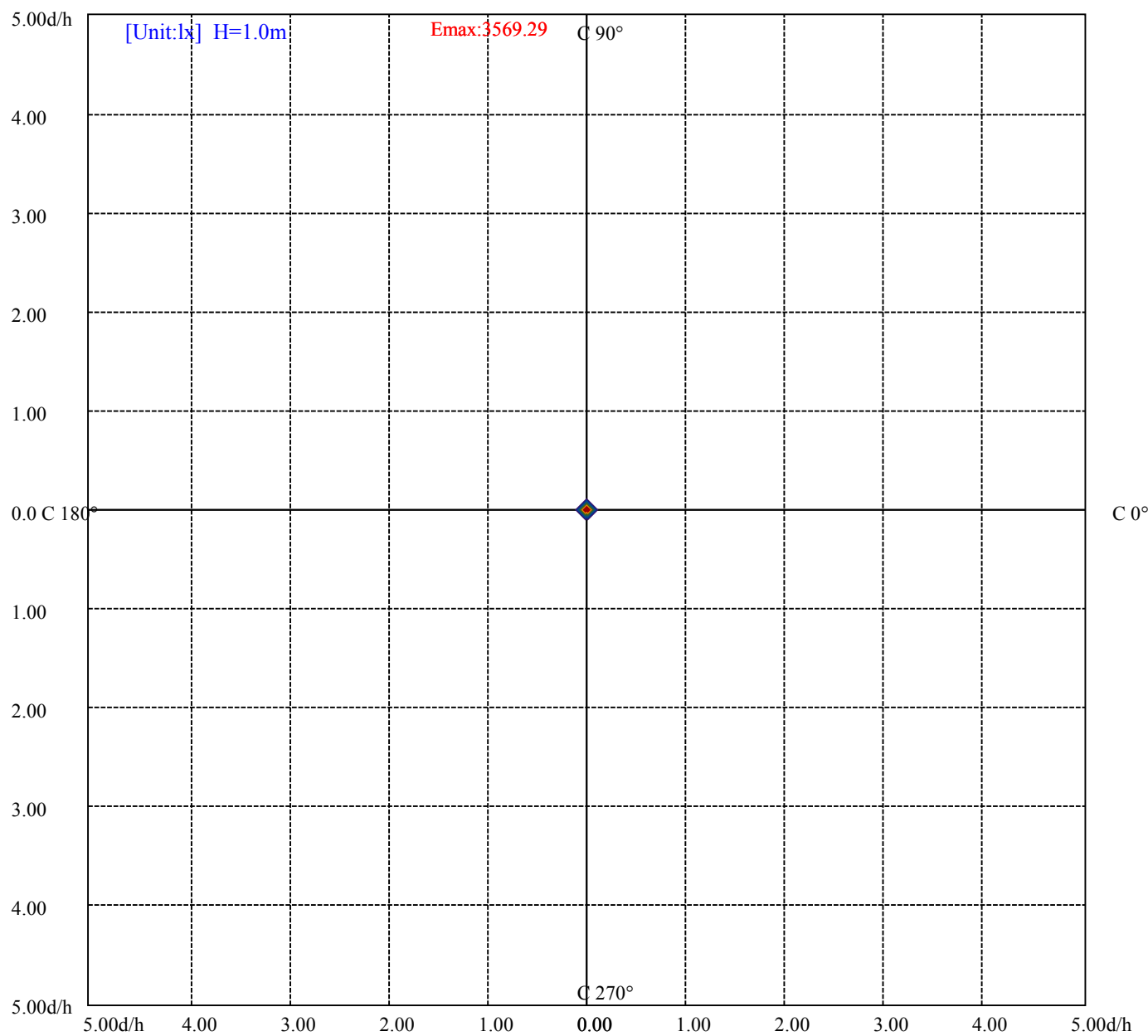
House

[Unit:cd]

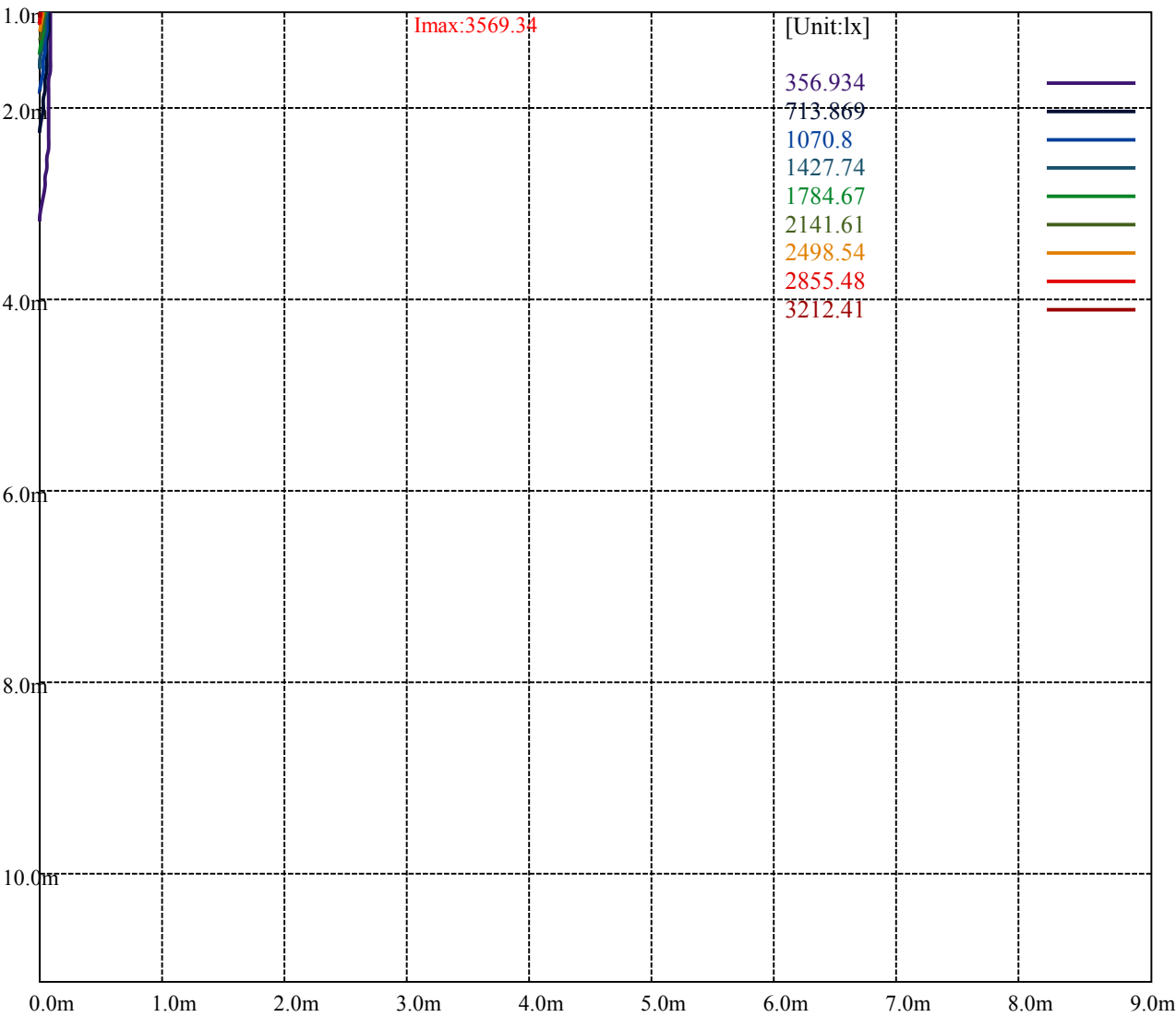
Road

Imax:3569.34

(10%Imax)	356.934	—
(20%Imax)	713.869	—
(30%Imax)	1070.8	—
(40%Imax)	1427.74	—
(50%Imax)	1784.67	—
(60%Imax)	2141.61	—
(70%Imax)	2498.54	—
(80%Imax)	2855.48	—
(90%Imax)	3212.41	—



(10%E _{max}) 356.928	—
(20%E _{max}) 713.856	—
(30%E _{max}) 1070.78	—
(40%E _{max}) 1427.71	—
(50%E _{max}) 1784.64	—
(60%E _{max}) 2141.57	—
(70%E _{max}) 2498.5	—
(80%E _{max}) 2855.42	—
(90%E _{max}) 3212.35	—



Luminance Table

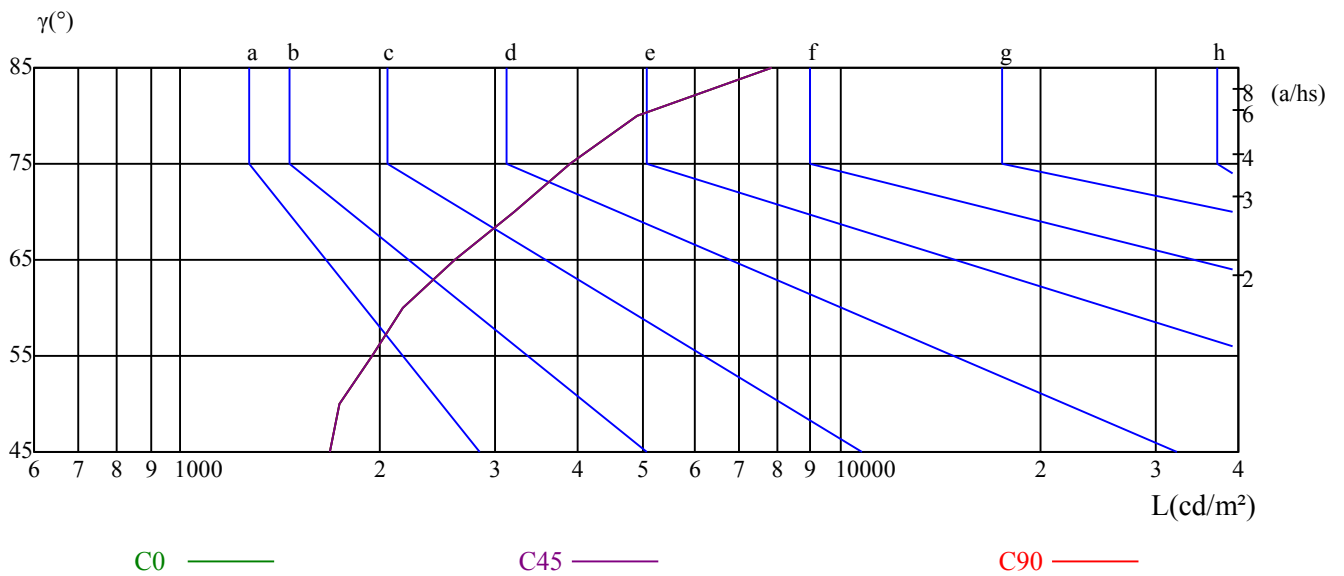
γ	45	50	55	60	65	70	75	80	85
C0	1678	1741	1945	2170	2603	3200	3881	4914	7881
C45	1678	1741	1945	2170	2603	3200	3881	4914	7881
C90	1678	1741	1945	2170	2603	3200	3881	4914	7881

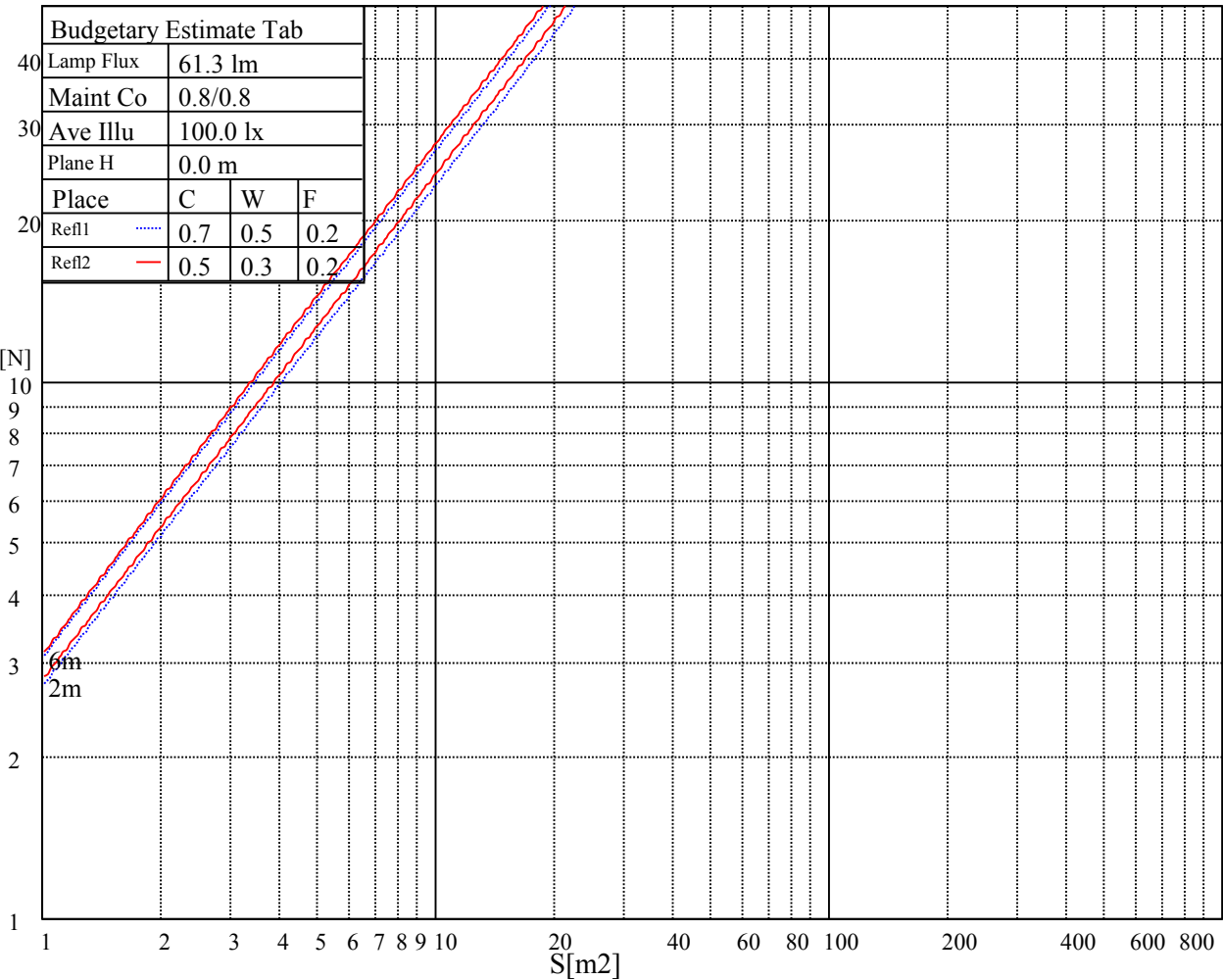
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2603	2603	2603	3881	3881	3881	7881	7881	7881

Glare Table

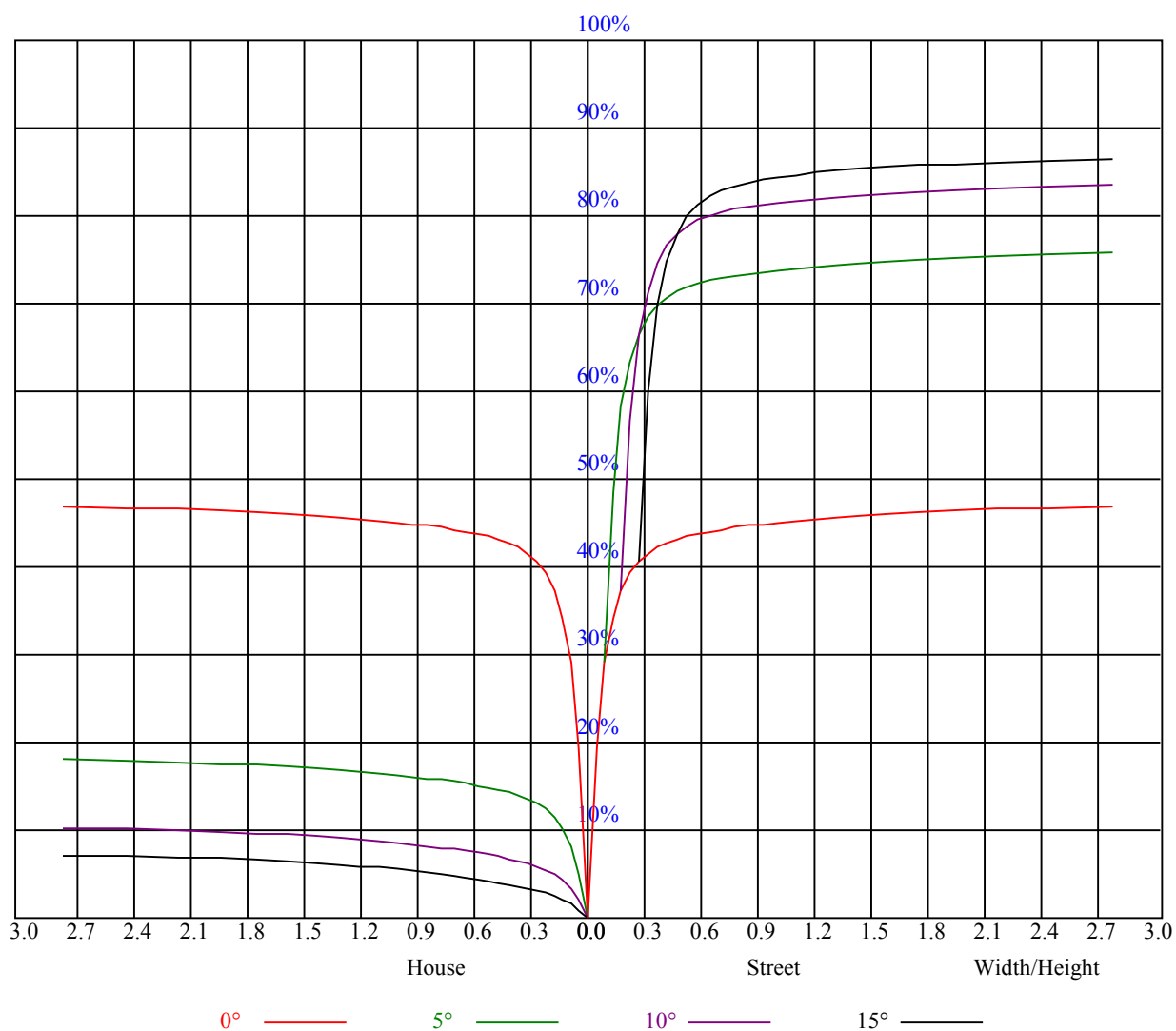
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91
2	1.02	0.99	0.96	1.00	0.97	0.95	0.97	0.95	0.93	0.94	0.93	0.91	0.92	0.90	0.89	0.88
3	0.98	0.94	0.91	0.97	0.93	0.91	0.94	0.91	0.89	0.92	0.90	0.88	0.90	0.88	0.87	0.85
4	0.95	0.91	0.88	0.94	0.90	0.87	0.92	0.89	0.86	0.90	0.88	0.86	0.88	0.86	0.85	0.83
5	0.92	0.88	0.85	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.86	0.84	0.87	0.85	0.83	0.82
6	0.90	0.86	0.83	0.89	0.86	0.83	0.88	0.85	0.83	0.87	0.84	0.82	0.86	0.83	0.82	0.81
7	0.88	0.84	0.82	0.87	0.84	0.82	0.86	0.83	0.81	0.86	0.83	0.81	0.85	0.82	0.80	0.80
8	0.86	0.83	0.80	0.86	0.83	0.80	0.85	0.82	0.80	0.84	0.82	0.80	0.84	0.81	0.79	0.79
9	0.85	0.82	0.79	0.85	0.81	0.79	0.84	0.81	0.79	0.83	0.81	0.79	0.83	0.80	0.79	0.78
10	0.84	0.80	0.78	0.83	0.80	0.78	0.83	0.80	0.78	0.82	0.80	0.78	0.82	0.79	0.78	0.77



Intensity data(cd)

C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	4322.25	3306.38	2341.13	1391.06	883.69	560.25	403.31	330.75	295.31
15.0	3969.00	2995.31	1838.25	1044.00	653.63	450.00	363.38	310.50	286.88
30.0	2748.94	1072.13	1072.13	750.38	458.21	352.13	311.51	279.56	252.79
45.0	3802.50	2858.63	1952.44	1274.63	709.31	477.00	360.56	317.81	285.19
60.0	2883.94	1120.05	1120.05	886.39	569.81	362.36	328.28	293.23	263.70
75.0	3823.88	3195.56	2400.19	1706.06	1002.94	576.00	421.88	353.25	312.75
90.0	3099.38	2583.00	1098.11	1098.11	871.76	514.91	396.06	327.88	292.39
105.0	3691.69	3580.31	3124.69	2322.00	1577.81	1069.88	682.31	478.69	365.06
120.0	3705.19	3453.19	2741.63	1651.50	1051.93	1051.93	616.44	444.77	361.58
135.0	3391.88	3888.56	3898.69	3410.44	2744.44	2078.44	1482.75	876.38	579.94
150.0	4075.31	4256.44	4120.31	3670.88	2761.88	1112.96	1112.96	790.48	528.47
165.0	3318.19	4101.19	4499.44	4545.00	4275.56	3471.75	2575.69	1788.75	1161.56
180.0	4322.25	4690.69	4767.19	4606.88	4220.44	3385.69	1024.43	1024.43	804.26
195.0	3969.00	4583.25	4807.69	4767.75	4565.25	4019.63	1825.88	1068.75	1068.75
210.0	2748.94	3739.50	4453.88	4791.38	4762.69	4494.94	3792.38	2685.94	1778.63
225.0	3802.50	4522.50	4709.81	4628.81	4277.25	3233.81	973.07	973.07	867.49
240.0	2883.94	3714.19	4246.88	4435.88	4168.13	3480.19	2576.81	1767.94	1170.00
255.0	3823.88	4103.44	4001.06	3512.25	2742.75	1106.89	1106.89	807.30	548.33
270.0	3099.38	3780.00	3814.88	3524.06	2717.44	1990.13	1526.63	822.94	557.44
285.0	3691.69	3450.94	2899.69	1676.25	1077.92	790.43	593.72	443.48	367.88
300.0	3705.19	3634.31	3208.50	2387.25	1721.81	1070.44	703.13	496.13	390.94
315.0	3391.88	2693.81	1015.71	1015.71	915.19	615.54	419.91	340.03	304.31
330.0	4075.31	3549.38	2547.00	1630.69	1085.63	700.31	479.81	378.00	328.50
345.0	3318.19	1740.38	1079.33	866.48	620.72	432.39	344.19	307.58	276.36
360.0	4322.25	3306.38	2341.13	1391.06	883.69	560.25	403.31	330.75	295.31
C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	287.44	252.34	208.80	188.72	166.33	150.81	136.63	123.53	108.68
15.0	286.88	220.22	199.35	179.78	166.67	143.66	130.11	117.62	103.16
30.0	228.88	201.43	181.52	159.53	144.62	131.01	118.41	104.18	93.54
45.0	285.19	250.82	202.39	182.19	159.69	144.34	130.67	118.46	107.38
60.0	238.22	215.33	188.61	164.53	147.77	133.26	120.26	108.68	95.29
75.0	288.56	288.56	214.09	192.49	172.69	155.19	139.78	126.28	111.21
90.0	262.29	235.97	212.51	181.35	162.73	146.64	132.19	119.14	107.21
105.0	318.38	291.38	291.38	220.22	198.28	183.15	156.38	141.36	127.52
120.0	298.07	274.78	247.50	222.58	194.29	174.49	148.84	137.64	123.98
135.0	428.63	341.44	302.63	286.31	286.31	210.88	189.62	170.78	150.02
150.0	405.06	345.38	286.59	263.25	230.12	207.56	186.58	168.02	143.33
165.0	735.19	465.75	363.38	318.94	285.19	285.19	248.18	204.19	174.77
180.0	536.51	412.82	352.13	312.30	262.86	236.31	212.91	191.70	173.03
195.0	676.91	482.29	393.19	332.21	287.83	258.92	234.28	212.23	192.71
210.0	1127.81	642.94	445.50	375.19	329.63	294.75	286.88	286.88	210.94
225.0	587.70	444.49	369.84	317.31	279.51	253.18	229.61	207.96	188.10
240.0	670.50	476.44	379.69	337.50	302.63	295.31	295.31	218.53	197.89
255.0	404.66	351.84	314.38	277.31	252.96	230.23	199.13	184.33	167.18
270.0	420.19	358.31	311.63	288.56	288.56	226.41	205.99	186.30	169.37
285.0	324.73	293.01	260.10	231.69	210.88	190.80	172.91	157.05	139.11
300.0	337.50	295.31	287.44	255.04	213.19	192.99	174.83	158.29	136.35
315.0	274.50	249.41	226.63	204.81	171.17	159.02	143.89	130.11	117.51
330.0	286.31	286.31	225.90	204.02	183.77	166.11	146.70	133.03	117.62
345.0	237.21	220.05	198.39	179.04	158.29	143.33	123.24	114.30	103.05
360.0	287.44	252.34	208.80	188.72	166.33	150.81	136.63	123.53	108.68

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Intensity data(cd)

Appendix Page: 19 Total:28

C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	97.54	84.21	74.36	65.53	57.88	51.47	45.90	39.04	35.33
15.0	92.31	84.38	69.64	61.26	54.23	48.21	43.43	39.09	33.75
30.0	83.53	71.89	63.62	56.48	48.66	43.43	38.93	35.10	31.22
45.0	94.61	83.03	73.91	65.81	58.56	52.26	47.76	40.11	34.88
60.0	85.67	74.87	66.94	59.85	53.44	46.58	41.68	37.35	32.63
75.0	97.48	87.53	78.64	70.54	63.00	56.36	48.83	43.65	37.91
90.0	96.58	82.13	73.97	65.87	58.73	52.54	46.86	40.73	35.44
105.0	111.94	100.86	93.04	78.98	70.88	63.00	55.97	49.89	44.49
120.0	111.43	100.13	87.47	74.36	68.29	60.81	54.17	48.32	43.14
135.0	135.23	118.52	106.76	95.96	86.29	77.57	69.13	58.11	51.86
150.0	132.64	119.98	105.86	95.34	86.12	73.07	66.99	59.74	53.10
165.0	158.01	142.65	129.09	116.61	105.30	94.84	83.03	71.66	63.28
180.0	156.49	134.66	122.01	110.36	99.51	89.44	79.43	66.32	60.41
195.0	170.61	154.97	137.42	124.31	112.56	101.31	87.86	78.02	68.96
210.0	186.81	169.93	154.63	140.68	127.80	113.01	101.81	88.59	78.92
225.0	170.61	147.49	133.88	121.44	109.91	98.78	88.31	78.64	65.87
240.0	174.83	158.46	147.04	126.28	114.08	102.66	91.91	82.01	73.07
255.0	152.10	134.21	121.11	105.86	94.44	84.09	74.64	66.15	56.93
270.0	150.41	136.29	119.98	107.94	96.81	86.40	76.89	68.23	56.98
285.0	125.66	110.36	98.61	87.86	77.96	67.11	59.46	52.82	45.56
300.0	123.13	111.09	99.62	88.99	79.31	70.59	61.09	52.82	46.97
315.0	106.09	92.81	80.55	71.66	63.73	56.76	50.46	43.54	38.64
330.0	106.43	95.85	86.06	74.76	66.54	58.89	52.14	44.66	39.60
345.0	92.36	82.07	70.43	58.33	53.16	47.14	41.85	37.52	33.81
360.0	97.54	84.21	74.36	65.53	57.88	51.47	45.90	39.04	35.33
C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	31.78	28.86	26.55	24.02	21.88	18.90	16.93	15.36	14.57
15.0	30.43	27.79	25.09	22.89	20.87	18.51	17.10	15.69	14.40
30.0	28.46	25.26	23.06	21.09	19.35	17.78	16.26	14.34	13.16
45.0	31.56	28.74	26.27	24.81	21.99	20.03	18.17	16.82	15.58
60.0	29.59	26.94	24.19	22.22	20.42	19.01	17.72	16.03	14.51
75.0	34.03	30.71	27.23	24.92	23.01	21.04	19.13	17.94	16.31
90.0	31.89	28.69	26.10	23.85	21.32	19.80	18.51	16.76	15.64
105.0	37.52	33.64	30.32	27.34	24.92	22.73	20.31	18.73	17.55
120.0	37.52	32.74	29.53	26.72	24.19	22.11	20.14	18.68	17.04
135.0	46.24	41.29	36.90	33.13	29.25	25.99	23.96	22.22	20.59
150.0	45.90	40.95	34.43	31.73	28.63	25.93	23.74	21.71	19.13
165.0	56.31	49.84	42.86	38.25	34.26	30.09	27.28	24.75	22.56
180.0	51.98	46.18	41.29	37.18	32.12	29.81	26.94	24.47	22.05
195.0	59.01	52.31	46.58	40.61	36.51	32.79	29.70	26.78	23.96
210.0	70.03	61.93	53.10	46.97	41.91	36.23	32.46	29.25	25.82
225.0	58.44	51.81	45.90	40.78	36.23	31.33	28.07	24.64	22.33
240.0	61.14	54.39	48.38	42.86	38.08	33.86	28.80	25.76	23.18
255.0	48.99	43.59	38.98	35.04	31.39	28.41	24.58	22.33	20.08
270.0	50.79	45.11	40.11	35.66	31.89	28.18	24.86	22.73	20.76
285.0	40.56	36.28	31.56	28.58	26.10	23.74	20.76	18.84	17.27
300.0	41.79	37.18	32.34	29.53	27.11	23.63	21.77	20.08	18.23
315.0	33.47	30.04	27.17	24.47	21.71	20.08	18.56	17.21	15.58
330.0	34.09	30.43	27.45	24.75	22.61	20.42	18.45	17.16	15.98
345.0	29.76	26.72	24.19	21.99	19.97	18.17	16.43	15.30	14.29
360.0	31.78	28.86	26.55	24.02	21.88	18.90	16.93	15.36	14.57

Intensity data(cd)

C/ γ (°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	13.84	12.43	11.87	11.14	10.07	9.51	8.94	8.38	7.59
15.0	13.33	12.32	11.19	10.46	9.90	9.23	8.55	8.04	7.37
30.0	12.21	11.36	10.52	9.90	9.11	8.55	7.93	7.54	7.03
45.0	14.68	13.11	11.98	11.08	10.29	9.56	9.11	8.21	7.59
60.0	13.44	12.43	11.64	10.86	10.13	9.17	8.55	8.04	7.54
75.0	15.02	13.78	12.83	11.93	11.08	10.07	9.34	8.78	8.21
90.0	14.68	13.50	12.32	11.42	10.63	9.62	8.94	8.16	7.54
105.0	16.54	15.47	14.34	13.11	11.93	11.08	10.24	9.51	8.83
120.0	15.92	14.74	13.56	12.49	11.64	10.80	9.73	9.11	8.55
135.0	18.96	17.38	16.26	14.91	13.84	12.77	11.76	10.63	9.90
150.0	17.94	16.59	15.58	14.68	13.56	12.21	10.91	10.18	9.56
165.0	20.48	18.79	17.16	15.53	14.68	13.22	12.09	11.19	10.35
180.0	20.08	17.33	16.31	15.30	14.06	12.83	11.42	10.18	9.73
195.0	21.54	19.69	17.94	16.43	15.08	13.84	12.09	11.14	10.35
210.0	23.63	21.77	19.97	18.23	16.20	14.46	13.16	12.04	11.14
225.0	20.25	18.56	16.65	15.19	13.78	12.38	11.36	10.29	9.45
240.0	21.15	19.18	17.38	15.53	14.12	12.99	12.15	11.31	10.52
255.0	18.39	16.99	15.58	13.78	12.94	11.87	11.03	10.24	9.68
270.0	18.90	17.27	15.58	14.40	13.16	12.04	11.08	10.29	9.62
285.0	15.58	14.34	13.33	12.43	11.48	10.18	9.56	9.11	8.49
300.0	16.14	14.68	13.44	12.43	11.64	10.74	10.07	9.45	8.94
315.0	14.51	12.99	12.09	11.14	10.29	9.56	8.72	7.99	7.54
330.0	14.68	13.56	12.60	11.31	10.46	9.79	9.17	8.49	7.99
345.0	12.99	11.98	11.53	10.52	9.79	9.11	8.27	7.59	7.03
360.0	13.84	12.43	11.87	11.14	10.07	9.51	8.94	8.38	7.59
C/ γ (°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	7.09	6.69	6.24	5.85	5.29	4.89	4.61	4.39	4.11
15.0	6.92	6.53	6.13	5.63	5.18	4.78	4.50	4.28	3.99
30.0	6.58	6.02	5.68	5.23	4.95	4.61	4.39	4.05	3.88
45.0	7.14	6.75	6.24	5.91	5.34	5.01	4.73	4.44	4.22
60.0	7.09	6.69	6.36	5.68	5.29	5.01	4.67	4.44	4.16
75.0	7.59	7.20	6.58	6.19	5.85	5.40	5.06	4.78	4.50
90.0	7.09	6.69	6.24	5.79	5.34	5.01	4.73	4.50	4.22
105.0	7.93	7.43	6.98	6.41	6.08	5.74	5.23	4.84	4.56
120.0	7.76	7.26	6.75	6.36	5.96	5.63	5.12	4.78	4.50
135.0	9.06	8.38	7.76	7.20	6.64	6.24	5.96	5.57	5.18
150.0	8.89	8.21	7.54	6.92	6.41	5.91	5.63	5.29	4.84
165.0	9.68	8.94	8.38	7.59	6.98	6.58	6.19	5.85	5.51
180.0	9.23	8.61	7.93	7.43	6.64	6.36	5.96	5.63	5.23
195.0	9.73	9.17	8.55	7.93	7.31	6.86	6.41	6.02	5.68
210.0	10.29	9.73	8.55	7.99	7.43	6.98	6.58	6.30	5.74
225.0	8.61	7.93	7.37	6.75	6.30	5.79	5.46	5.23	4.95
240.0	9.73	9.17	8.49	8.04	7.54	6.98	6.36	6.02	5.63
255.0	8.78	8.38	7.88	7.26	6.86	6.47	5.91	5.57	5.06
270.0	9.06	8.38	7.82	7.26	6.81	6.36	6.08	5.63	5.12
285.0	7.99	7.48	6.98	6.41	6.08	5.68	5.18	4.78	4.44
300.0	8.33	7.71	7.26	6.75	6.24	5.91	5.34	4.89	4.56
315.0	7.14	6.75	6.53	6.19	5.63	5.12	4.73	4.44	4.16
330.0	7.59	6.98	6.47	6.13	5.79	5.34	4.95	4.56	4.28
345.0	6.58	6.30	5.96	5.63	5.12	4.78	4.39	4.11	3.94
360.0	7.09	6.69	6.24	5.85	5.29	4.89	4.61	4.39	4.11

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Intensity data(cd)										Appendix Page: 21 Total:28	
C/ γ (°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0		
0.0	3.83	3.60	3.38	3.21	3.09	2.98	2.87	2.76	2.64		
15.0	3.83	3.66	3.43	3.32	3.15	3.04	2.93	2.76	2.64		
30.0	3.71	3.49	3.32	3.21	3.04	2.93	2.81	2.70	2.64		
45.0	3.99	3.71	3.54	3.43	3.26	3.09	2.98	2.87	2.76		
60.0	3.94	3.71	3.54	3.38	3.21	3.04	2.93	2.81	2.76		
75.0	4.22	3.94	3.77	3.54	3.43	3.26	3.04	2.93	2.81		
90.0	3.99	3.71	3.54	3.38	3.21	3.04	2.93	2.76	2.70		
105.0	4.33	3.99	3.77	3.54	3.43	3.26	3.09	2.98	2.81		
120.0	4.28	3.99	3.83	3.54	3.38	3.15	3.04	2.93	2.81		
135.0	4.73	4.39	4.11	3.94	3.71	3.49	3.32	3.09	2.93		
150.0	4.56	4.28	4.05	3.77	3.54	3.32	3.21	3.04	2.93		
165.0	4.89	4.61	4.39	4.16	3.88	3.71	3.49	3.26	3.15		
180.0	4.89	4.56	4.33	3.99	3.83	3.60	3.43	3.26	3.15		
195.0	5.18	4.78	4.50	4.16	3.94	3.71	3.54	3.38	3.21		
210.0	5.23	4.89	4.56	4.33	4.11	3.83	3.60	3.49	3.26		
225.0	4.67	4.44	4.05	3.88	3.71	3.54	3.38	3.21	2.98		
240.0	5.23	4.73	4.39	4.05	3.83	3.60	3.43	3.26	3.09		
255.0	4.67	4.39	4.05	3.77	3.54	3.38	3.21	3.09	2.98		
270.0	4.67	4.33	4.05	3.83	3.66	3.49	3.32	3.21	2.98		
285.0	4.11	3.88	3.66	3.49	3.32	3.15	3.04	2.87	2.76		
300.0	4.16	3.94	3.71	3.54	3.38	3.21	3.04	2.87	2.70		
315.0	3.94	3.66	3.49	3.26	3.09	2.98	2.93	2.76	2.64		
330.0	3.99	3.77	3.60	3.38	3.21	3.04	2.98	2.81	2.70		
345.0	3.71	3.54	3.32	3.09	2.98	2.87	2.81	2.70	2.59		
360.0	3.83	3.60	3.38	3.21	3.09	2.98	2.87	2.76	2.64		
C/ γ (°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5		
0.0	2.59	2.48	2.42	2.31	2.25	2.14	2.08	2.03	1.97		
15.0	2.53	2.48	2.42	2.31	2.25	2.14	2.03	1.97	1.97		
30.0	2.53	2.42	2.36	2.25	2.19	2.14	2.08	1.97	1.91		
45.0	2.64	2.53	2.48	2.36	2.31	2.25	2.14	2.08	2.03		
60.0	2.59	2.53	2.42	2.31	2.25	2.19	2.14	2.03	1.97		
75.0	2.70	2.59	2.48	2.42	2.36	2.31	2.19	2.08	2.03		
90.0	2.59	2.48	2.42	2.31	2.25	2.19	2.14	2.08	1.97		
105.0	2.64	2.59	2.53	2.42	2.36	2.31	2.25	2.14	2.08		
120.0	2.64	2.53	2.48	2.36	2.36	2.25	2.19	2.14	2.03		
135.0	2.81	2.64	2.59	2.48	2.42	2.31	2.19	2.14	2.08		
150.0	2.87	2.70	2.59	2.48	2.42	2.					

Intensity data(cd)

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	1.97	1.91	1.86	1.80	1.74	1.74	1.69	1.69	1.63
15.0	1.91	1.86	1.86	1.80	1.80	1.74	1.69	1.63	1.63
30.0	1.91	1.86	1.86	1.80	1.74	1.69	1.69	1.63	1.58
45.0	1.97	1.91	1.91	1.86	1.80	1.80	1.74	1.74	1.69
60.0	1.91	1.91	1.86	1.80	1.74	1.74	1.69	1.63	1.63
75.0	1.97	1.91	1.91	1.86	1.80	1.74	1.69	1.69	1.63
90.0	1.97	1.86	1.80	1.80	1.74	1.74	1.69	1.63	1.63
105.0	2.03	1.97	1.97	1.86	1.86	1.80	1.74	1.74	1.69
120.0	1.97	1.91	1.86	1.86	1.80	1.80	1.74	1.69	1.63
135.0	2.03	1.97	1.91	1.86	1.80	1.74	1.74	1.69	1.69
150.0	2.03	2.03	1.97	1.91	1.86	1.80	1.74	1.74	1.69
165.0	2.14	2.08	2.03	2.03	1.91	1.91	1.86	1.80	1.80
180.0	2.14	2.08	2.03	1.97	1.97	1.91	1.86	1.80	1.80
195.0	2.19	2.08	2.08	1.97	1.97	1.91	1.86	1.80	1.74
210.0	2.19	2.14	2.08	2.03	1.97	1.91	1.86	1.80	1.80
225.0	2.08	2.03	1.97	1.91	1.86	1.80	1.74	1.74	1.69
240.0	2.08	2.03	1.97	1.91	1.86	1.86	1.74	1.74	1.69
255.0	2.08	2.03	1.97	1.91	1.86	1.80	1.74	1.74	1.69
270.0	2.14	2.08	1.97	1.97	1.91	1.86	1.86	1.80	1.74
285.0	1.97	1.91	1.86	1.80	1.80	1.74	1.69	1.69	1.63
300.0	1.97	1.91	1.86	1.86	1.86	1.80	1.74	1.69	1.63
315.0	1.91	1.86	1.86	1.86	1.74	1.74	1.69	1.63	1.63
330.0	2.03	1.97	1.91	1.86	1.86	1.80	1.74	1.74	1.69
345.0	1.97	1.86	1.86	1.86	1.80	1.80	1.69	1.69	1.69
360.0	1.97	1.91	1.86	1.80	1.74	1.74	1.69	1.69	1.63
C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	1.63	1.58	1.58	1.58	1.52	1.52	1.52	1.46	1.46
15.0	1.58	1.58	1.52	1.52	1.52	1.46	1.52	1.46	1.46
30.0	1.58	1.58	1.52	1.52	1.46	1.46	1.46	1.46	1.46
45.0	1.63	1.63	1.58	1.58	1.52	1.46	1.46	1.46	1.46
60.0	1.58	1.58	1.52	1.52	1.52	1.46	1.46	1.41	1.46
75.0	1.63	1.58	1.58	1.52	1.52	1.52	1.46	1.46	1.46
90.0	1.58	1.58	1.58	1.52	1.52	1.46	1.46	1.41	1.41
105.0	1.63	1.63	1.63	1.58	1.52	1.52	1.46	1.46	1.41
120.0	1.58	1.58	1.52	1.46	1.46	1.46	1.46	1.46	1.41
135.0	1.63	1.63	1.58	1.52	1.52	1.46	1.46	1.46	1.46
150.0	1.63	1.63	1.58	1.58	1.52	1.52	1.46	1.46	1.41
165.0	1.74	1.69	1.63	1.63	1.58	1.58	1.52	1.52	1.58
180.0	1.74	1.74	1.69	1.69	1.63	1.58	1.58	1.58	1.58
195.0	1.74	1.74	1.74	1.69	1.63	1.63	1.58	1.58	1.58
210.0	1.80	1.74	1.74	1.69	1.69	1.63	1.63	1.63	1.58
225.0	1.69	1.63	1.63	1.63	1.58	1.52	1.52	1.52	1.52
240.0	1.63	1.63	1.63	1.58	1.58	1.52	1.52	1.46	1.46
255.0	1.69	1.63	1.63	1.58	1.52	1.52	1.52	1.46	1.46
270.0	1.74	1.69	1.63	1.63	1.58	1.52	1.52	1.52	1.52
285.0	1.63	1.58	1.58	1.58	1.52	1.52	1.46	1.46	1.46
300.0	1.63	1.63	1.58	1.58	1.52	1.52	1.52	1.52	1.46
315.0	1.58	1.58	1.52	1.52	1.52	1.52	1.46	1.46	1.46
330.0	1.63	1.69	1.63	1.63	1.58	1.58	1.58	1.52	1.46
345.0	1.69	1.63	1.63	1.63	1.58	1.58	1.52	1.52	1.46
360.0	1.63	1.58	1.58	1.58	1.52	1.52	1.52	1.46	1.46

Intensity data(cd)

C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	1.52	1.46	1.46	1.46	1.41	1.41	1.46	1.46	1.41
15.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.35
30.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.35
45.0	1.46	1.46	1.46	1.46	1.41	1.41	1.41	1.41	1.35
60.0	1.46	1.41	1.41	1.41	1.41	1.35	1.41	1.35	1.35
75.0	1.46	1.41	1.41	1.41	1.41	1.41	1.35	1.41	1.41
90.0	1.41	1.35	1.35	1.35	1.35	1.29	1.29	1.29	1.29
105.0	1.41	1.41	1.41	1.35	1.35	1.35	1.35	1.35	1.35
120.0	1.41	1.41	1.41	1.35	1.35	1.35	1.29	1.35	1.35
135.0	1.41	1.46	1.41	1.41	1.41	1.35	1.35	1.35	1.35
150.0	1.41	1.41	1.41	1.41	1.41	1.35	1.35	1.41	1.41
165.0	1.52	1.46	1.46	1.46	1.41	1.46	1.46	1.41	1.41
180.0	1.58	1.52	1.52	1.52	1.52	1.52	1.46	1.46	1.46
195.0	1.52	1.52	1.52	1.46	1.46	1.46	1.46	1.46	1.46
210.0	1.58	1.58	1.58	1.52	1.52	1.52	1.46	1.46	1.46
225.0	1.46	1.46	1.41	1.35	1.41	1.35	1.35	1.35	1.29
240.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.35	1.41
255.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.35	1.35
270.0	1.46	1.46	1.46	1.46	1.46	1.41	1.46	1.41	1.41
285.0	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.41	1.41
300.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
315.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
330.0	1.46	1.46	1.46	1.46	1.41	1.46	1.41	1.41	1.41
345.0	1.46	1.41	1.41	1.41	1.41	1.35	1.41	1.41	1.41
360.0	1.52	1.46	1.46	1.46	1.41	1.41	1.46	1.46	1.41
C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	1.41	1.46	1.46	1.41	1.41	1.41	1.41	1.41	1.41
15.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
30.0	1.41	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.29
45.0	1.41	1.41	1.41	1.41	1.41	1.35	1.35	1.35	1.35
60.0	1.35	1.35	1.35	1.35	1.35	1.29	1.35	1.35	1.35
75.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
90.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
105.0	1.29	1.29	1.35	1.35	1.29	1.35	1.35	1.29	1.29
120.0	1.29	1.29	1.29	1.29	1.35	1.35	1.29	1.29	1.29
135.0	1.35	1.29	1.29	1.35	1.35	1.29	1.29	1.29	1.29
150.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
165.0	1.41	1.35	1.41	1.41	1.41	1.41	1.41	1.41	1.41
180.0	1.52	1.46	1.52	1.52	1.52	1.58	1.58	1.63	1.69
195.0	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.41	1.41
210.0	1.41	1.41	1.46	1.41	1.41	1.41	1.41	1.41	1.41
225.0	1.29	1.35	1.29	1.29	1.29	1.29	1.35	1.35	1.35
240.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.41
255.0	1.41	1.41	1.41	1.41	1.35	1.35	1.41	1.41	1.41
270.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.35
285.0	1.41	1.41	1.41	1.41	1.41	1.46	1.41	1.41	1.35
300.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
315.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.35	1.41
330.0	1.35	1.35	1.41	1.35	1.41	1.41	1.41	1.41	1.35
345.0	1.35	1.41	1.35	1.35	1.41	1.35	1.35	1.35	1.35
360.0	1.41	1.46	1.46	1.41	1.41	1.41	1.41	1.41	1.41

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Intensity data(cd)										Appendix Page: 24 Total:28	
C/γ(°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0		
0.0	1.41	1.41	1.41	1.35	1.35	1.35	1.35	1.35	1.35		
15.0	1.35	1.35	1.35	1.29	1.29	1.29	1.29	1.29	1.29		
30.0	1.29	1.29	1.29	1.24	1.29	1.24	1.29	1.24	1.24		
45.0	1.35	1.29	1.29	1.29	1.29	1.29	1.24	1.24	1.24		
60.0	1.29	1.29	1.29	1.29	1.24	1.24	1.24	1.24	1.24		
75.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29		
90.0	1.24	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.35		
105.0	1.29	1.29	1.29	1.29	1.29	1.35	1.29	1.35	1.29		
120.0	1.29	1.29	1.29	1.29	1.24	1.24	1.24	1.24	1.24		
135.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.24		
150.0	1.35	1.35	1.35	1.29	1.35	1.35	1.29	1.29	1.29		
165.0	1.41	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.29		
180.0	1.74	1.86	1.91	1.91	1.97	1.97	1.97	1.97	1.91		
195.0	1.46	1.41	1.41	1.41	1.41	1.41	1.41	1.35	1.35		
210.0	1.35	1.41	1.41	1.41	1.41	1.41	1.46	1.46	1.46		
225.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35		
240.0	1.35	1.35	1.35	1.35	1.29	1.29	1.29	1.29	1.29		
255.0	1.35	1.35	1.41	1.35	1.35	1.35	1.29	1.35	1.29		
270.0	1.35	1.35	1.35	1.35	1.35	1.35	1.29	1.29	1.29		
285.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.29		
300.0	1.41	1.35	1.35	1.35	1.35	1.29	1.29	1.29	1.29		
315.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35		
330.0	1.35	1.41	1.41	1.35	1.41	1.41	1.41	1.41	1.46		
345.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.41	1.41		
360.0	1.41	1.41	1.41	1.35	1.35	1.35	1.35	1.35	1.35		
C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5		
0.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35		
15.0	1.29	1.29	1.24	1.24	1.24	1.24	1.18	1.18	1.24		
30.0	1.24	1.24	1.18	1.18	1.18	1.18	1.18	1.13	1.13		
45.0	1.24	1.24	1.24	1.18	1.18	1.18	1.13	1.18	1.13		
60.0	1.24	1.24	1.24	1.18	1.18	1.18	1.18	1.18	1.13		
75.0	1.29	1.29	1.24	1.24	1.24	1.24	1.24	1.24	1.24		
90.0	1.35	1.35	1.41	1.41	1.52	1.52	1.58	1.63	1.63		
105.0	1.35	1.35	1.35	1.41	1.41	1.46	1.46	1.52	1.52		
120.0	1.24	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18		
135.0	1.24	1.24	1.24	1.24	1.24	1.18	1.18	1.18	1.18		
150.0	1.29	1.29	1.29	1.29	1.29	1.24	1.29	1.2			

Intensity data(cd)										Appendix Page: 25 Total:28	
C/ γ (°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0		
0.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35		
15.0	1.18	1.18	1.18	1.18	1.13	1.13	1.13	1.13	1.13		
30.0	1.13	1.13	1.13	1.07	1.07	1.07	1.07	1.07	1.07		
45.0	1.13	1.13	1.13	1.13	1.07	1.07	1.07	1.07	1.07		
60.0	1.13	1.13	1.18	1.13	1.07	1.07	1.07	1.07	1.07		
75.0	1.29	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24		
90.0	1.69	1.80	1.86	1.91	1.91	1.91	2.03	2.03	2.08		
105.0	1.58	1.69	1.74	1.80	1.86	1.91	1.91	1.97	2.03		
120.0	1.18	1.13	1.18	1.18	1.18	1.18	1.18	1.18	1.18		
135.0	1.18	1.18	1.18	1.13	1.13	1.13	1.13	1.13	1.07		
150.0	1.24	1.24	1.18	1.18	1.18	1.18	1.18	1.13	1.13		
165.0	1.24	1.24	1.24	1.18	1.24	1.18	1.18	1.18	1.13		
180.0	1.58	1.58	1.52	1.52	1.52	1.46	1.46	1.46	1.41		
195.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.24	1.29		
210.0	1.52	1.58	1.63	1.63	1.63	1.69	1.69	1.74	1.74		
225.0	1.52	1.58	1.58	1.58	1.63	1.63	1.69	1.69	1.69		
240.0	1.24	1.24	1.24	1.24	1.24	1.24	1.18	1.24	1.18		
255.0	1.18	1.18	1.18	1.18	1.13	1.18	1.18	1.13	1.13		
270.0	1.24	1.18	1.18	1.18	1.18	1.18	1.13	1.18	1.13		
285.0	1.18	1.18	1.18	1.18	1.13	1.13	1.13	1.13	1.13		
300.0	1.24	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.13		
315.0	1.29	1.29	1.35	1.29	1.29	1.29	1.35	1.29	1.29		
330.0	1.74	1.80	1.86	1.91	1.91	1.97	2.03	2.03	2.08		
345.0	1.63	1.69	1.74	1.74	1.80	1.80	1.86	1.91	1.91		
360.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35		
C/ γ (°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5		
0.0	1.35	1.35	1.35	1.35	1.35	1.41	1.35	1.35	1.35		
15.0	1.13	1.07	1.07	1.07	1.13	1.07	1.07	1.07	1.01		
30.0	1.01	1.01	1.01	1.01	1.01	1.01	0.96	1.01	1.01		
45.0	1.01	1.01	1.01	1.01	0.96	1.01	0.96	0.96	0.96		
60.0	1.07	1.07	1.01	1.01	1.01	1.01	0.96	0.96	0.96		
75.0	1.24	1.24	1.24	1.29	1.24	1.24	1.24	1.18	1.24		
90.0	2.08	2.08	2.08	2.08	2.03	2.03	2.03	2.03	1.97		
105.0	2.03	2.08	2.08	2.08	2.08	2.08	2.03	1.97	1.97		
120.0	1.18	1.18	1.18	1.18	1.13	1.13	1.13	1.07	1.13		
135.0	1.07	1.07	1.07	1.01	1.01	1.01	1.01	1.01	1.01		
150.0	1.07	1.13	1.07	1.07	1.07						

Intensity data(cd)

C/ γ (°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	1.41	1.41	1.35	1.35	1.35	1.35	1.35	1.29	1.29
15.0	1.07	1.01	1.01	1.01	1.07	1.01	1.01	1.01	0.96
30.0	0.96	1.01	0.96	0.96	0.96	0.90	0.90	0.90	0.90
45.0	0.96	0.96	0.96	0.90	0.96	0.90	0.90	0.84	0.84
60.0	1.01	0.96	0.96	0.90	0.96	0.90	0.90	0.90	0.84
75.0	1.24	1.18	1.18	1.18	1.18	1.18	1.13	1.07	1.07
90.0	1.97	1.91	1.91	1.86	1.86	1.80	1.74	1.69	1.63
105.0	1.91	1.97	1.91	1.91	1.91	1.86	1.80	1.74	1.69
120.0	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
135.0	0.96	0.96	0.96	0.96	0.96	0.96	0.90	0.96	0.96
150.0	1.01	1.01	1.01	0.96	0.96	0.96	0.90	0.90	0.90
165.0	1.07	1.01	1.01	1.01	1.01	1.01	0.96	0.96	0.96
180.0	1.29	1.29	1.24	1.29	1.29	1.29	1.24	1.24	1.24
195.0	1.24	1.18	1.24	1.18	1.18	1.18	1.18	1.18	1.18
210.0	1.91	1.91	1.86	1.86	1.86	1.80	1.74	1.74	1.74
225.0	1.80	1.80	1.86	1.80	1.80	1.80	1.74	1.69	1.69
240.0	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.13	1.13
255.0	1.07	1.07	1.07	1.07	1.01	1.01	1.01	1.01	0.96
270.0	1.07	1.07	1.01	1.01	1.07	1.01	1.01	0.96	0.96
285.0	1.07	1.01	1.01	1.07	1.01	0.96	0.96	0.90	0.90
300.0	1.01	1.07	1.01	1.01	1.01	0.96	0.96	0.96	0.96
315.0	1.24	1.24	1.24	1.24	1.18	1.18	1.18	1.13	1.13
330.0	2.08	2.14	2.08	2.08	2.03	2.03	1.97	1.91	1.80
345.0	1.97	1.97	1.97	1.91	1.86	1.86	1.80	1.80	1.74
360.0	1.41	1.41	1.35	1.35	1.35	1.35	1.35	1.29	1.29
C/ γ (°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	1.29	1.24	1.24	1.18	1.18	1.18	1.18	1.18	1.18
15.0	0.96	0.96	0.90	0.90	0.90	0.90	0.90	0.84	0.90
30.0	0.90	0.84	0.84	0.84	0.90	0.84	0.84	0.84	0.79
45.0	0.84	0.84	0.84	0.79	0.84	0.84	0.79	0.79	0.79
60.0	0.84	0.84	0.84	0.79	0.79	0.79	0.79	0.73	0.79
75.0	1.07	1.01	1.01	0.96	0.96	0.96	0.96	0.90	0.90
90.0	1.63	1.63	1.58	1.52	1.46	1.46	1.35	1.35	1.35
105.0	1.69	1.58	1.52	1.52	1.46	1.46	1.41	1.35	1.35
120.0	1.07	1.01	1.01	1.01	0.96	0.96	0.90	0.90	0.84
135.0	0.96	0.90	0.90	0.90	0.90	0.84	0.84	0.84	0.79
150.0	0.84	0.90	0.84	0.84	0.79	0.79	0.79	0.79	0.79
165.0	0.90	0.96	0.90	0.90	0.90	0.90	0.84	0.84	0.79
180.0	1.24	1.24	1.18	1.18	1.18	1.18	1.13	1.13	1.13
195.0	1.13	1.13	1.13	1.07	1.07	1.07	1.07	1.01	1.01
210.0	1.69	1.69	1.63	1.63	1.58	1.58	1.52	1.52	1.52
225.0	1.69	1.63	1.69	1.63	1.58	1.52	1.52	1.46	1.46
240.0	1.13	1.13	1.13	1.13	1.07	1.07	1.01	1.01	1.01
255.0	1.01	0.96	0.96	0.96	0.96	0.90	0.90	0.90	0.90
270.0	0.96	0.96	0.96	0.96	0.90	0.90	0.84	0.90	0.84
285.0	0.90	0.90	0.90	0.84	0.90	0.90	0.84	0.84	0.84
300.0	0.96	0.96	0.96	0.90	0.90	0.90	0.90	0.90	0.84
315.0	1.13	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.01
330.0	1.80	1.74	1.69	1.63	1.63	1.58	1.52	1.52	1.46
345.0	1.69	1.69	1.63	1.58	1.58	1.52	1.52	1.46	1.41
360.0	1.29	1.24	1.24	1.18	1.18	1.18	1.18	1.18	1.18

Intensity data(cd)

C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	1.18	1.13	1.13	1.07	1.07	0.96	0.96	0.96	0.96
15.0	0.90	0.90	0.90	0.90	0.79	0.79	0.79	0.79	0.84
30.0	0.90	0.90	0.79	0.79	0.79	0.73	0.73	0.79	0.79
45.0	0.79	0.73	0.73	0.79	0.73	0.73	0.73	0.68	0.68
60.0	0.73	0.73	0.68	0.68	0.68	0.62	0.62	0.68	0.62
75.0	0.90	0.84	0.84	0.84	0.84	0.79	0.79	0.79	0.79
90.0	1.29	1.24	1.24	1.18	1.13	1.13	1.07	1.01	1.01
105.0	1.29	1.24	1.18	1.18	1.18	1.07	1.13	1.07	1.01
120.0	0.84	0.84	0.84	0.79	0.79	0.79	0.73	0.73	0.73
135.0	0.79	0.79	0.79	0.73	0.73	0.68	0.68	0.68	0.68
150.0	0.73	0.73	0.73	0.73	0.68	0.73	0.68	0.68	0.68
165.0	0.84	0.79	0.73	0.73	0.73	0.73	0.68	0.68	0.68
180.0	1.13	1.07	1.07	1.07	1.07	1.01	0.96	0.96	0.90
195.0	1.01	1.01	1.01	1.01	0.96	0.96	0.90	0.84	0.84
210.0	1.41	1.41	1.35	1.35	1.29	1.29	1.24	1.18	1.18
225.0	1.41	1.35	1.35	1.35	1.29	1.24	1.29	1.18	1.18
240.0	1.01	1.01	0.96	0.96	0.96	0.90	0.90	0.90	0.84
255.0	0.90	0.84	0.84	0.84	0.79	0.79	0.79	0.73	0.73
270.0	0.84	0.84	0.84	0.84	0.79	0.79	0.79	0.73	0.68
285.0	0.84	0.79	0.79	0.79	0.73	0.73	0.68	0.62	0.62
300.0	0.84	0.84	0.84	0.84	0.79	0.73	0.73	0.68	0.68
315.0	1.01	1.01	0.96	0.96	0.96	0.90	0.90	0.84	0.84
330.0	1.46	1.41	1.35	1.35	1.29	1.29	1.24	1.24	1.18
345.0	1.41	1.35	1.29	1.29	1.24	1.24	1.18	1.13	1.07
360.0	1.18	1.13	1.13	1.07	1.07	0.96	0.96	0.96	0.96
C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	0.96	0.84	0.62	0.51	0.45	0.34	0.34	0.34	0.28
15.0	0.68	0.56	0.51	0.39	0.28	0.28	0.28	0.23	0.23
30.0	0.56	0.51	0.45	0.34	0.34	0.28	0.23	0.28	0.23
45.0	0.62	0.56	0.45	0.45	0.34	0.34	0.34	0.34	0.28
60.0	0.56	0.45	0.45	0.34	0.34	0.28	0.34	0.28	0.23
75.0	0.73	0.68	0.45	0.39	0.34	0.34	0.34	0.34	0.28
90.0	0.96	0.79	0.45	0.39	0.28	0.28	0.28	0.28	0.28
105.0	1.01	0.90	0.79	0.45	0.45	0.34	0.28	0.34	0.34
120.0	0.68	0.68	0.51	0.45	0.39	0.39	0.39	0.34	0.34
135.0	0.68	0.62	0.56	0.51	0.39	0.34	0.28	0.28	0.28
150.0	0.62	0.62	0.51	0.39	0.39	0.28	0.28	0.28	0.28
165.0	0.68	0.62	0.56	0.51	0.39	0.34	0.28	0.28	0.28
180.0	0.90	0.84	0.79	0.62	0.62	0.45	0.45	0.45	0.39
195.0	0.84	0.79	0.68	0.56	0.45	0.39	0.34	0.28	0.28
210.0	1.13	1.13	1.07	0.96	0.62	0.39	0.28	0.28	0.28
225.0	1.13	1.07	1.01	0.68	0.39	0.34	0.28	0.28	0.23
240.0	0.79	0.79	0.73	0.62	0.51	0.34	0.28	0.28	0.28
255.0	0.68	0.62	0.51	0.45	0.34	0.28	0.23	0.23	0.23
270.0	0.68	0.62	0.62	0.51	0.39	0.34	0.28	0.28	0.23
285.0	0.62	0.62	0.56	0.39	0.39	0.28	0.28	0.28	0.23
300.0	0.62	0.62	0.56	0.51	0.39	0.28	0.28	0.23	0.28
315.0	0.79	0.73	0.56	0.39	0.39	0.28	0.28	0.28	0.23
330.0	1.13	1.07	0.96	0.62	0.45	0.39	0.39	0.34	0.28
345.0	1.01	0.90	0.56	0.39	0.28	0.28	0.28	0.23	0.23
360.0	0.96	0.84	0.62	0.51	0.45	0.34	0.34	0.34	0.28

Intensity data(cd)

C/ γ (°)	90.0
0.0	0.23
15.0	0.23
30.0	0.23
45.0	0.23
60.0	0.23
75.0	0.28
90.0	0.23
105.0	0.28
120.0	0.28
135.0	0.28
150.0	0.28
165.0	0.28
180.0	0.51
195.0	0.28
210.0	0.28
225.0	0.23
240.0	0.23
255.0	0.23
270.0	0.23
285.0	0.23
300.0	0.23
315.0	0.23
330.0	0.28
345.0	0.23
360.0	0.23