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Nata

Client: NT

LumCAT: 69-0020 & 11-0161-S6-GS

Luminaire: L280*W40*H20(glossy silver)

Report No: 20241119-B006

Ballast type: AC

Test No: 20241119-C006

Voltage(V): 23.660

LampCAT: CREE JE2835B_N×2

Current(A): 0.453

Lamp flux(lm): 1205.1

Power (W): 10.717

Number of Lamps: 1

PF: 0.000

Length(mm): 280

Width(mm): 40

Phm Type: C

Height(mm): 20

Photometric Results

Lumens(lm): 1142.04, Efficiency(%): 94.77% , Luminous Efficacy(lm/W): 106.56

Central intensity(cd): 1243.662, Maximum intensity(cd): 1243.662

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=60.8

[C90/270]Total=62.6

Field angle(10%Imax): [C0/180]Total=78.8

[C90/270]Total=79.2

Maximum s/h(1/2): C0_180=0.98 C90_270=1.02

Maximum s/h(1/4): C0_180=0.89 C90_270=0.91

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.90%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.560%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/19
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1230.640	0.000	0	0.00%	0.00%
1.0	1230.311	1.178	1.178	0.10%	0.10%
2.0	1230.275	3.532	4.709	0.29%	0.41%
3.0	1229.360	5.883	10.592	0.49%	0.93%
4.0	1227.861	8.225	18.817	0.68%	1.65%
5.0	1225.190	10.553	29.37	0.88%	2.57%
6.0	1222.045	12.861	42.231	1.07%	3.70%
7.0	1218.204	15.147	57.377	1.26%	5.02%
8.0	1213.669	17.404	74.782	1.44%	6.55%
9.0	1209.463	19.638	94.42	1.63%	8.27%
10.0	1204.049	21.841	116.261	1.81%	10.18%
11.0	1196.185	23.983	140.245	1.99%	12.28%
12.0	1186.467	26.046	166.29	2.16%	14.56%
13.0	1180.589	28.091	194.381	2.33%	17.02%
14.0	1169.803	30.085	224.466	2.50%	19.65%
15.0	1160.165	31.987	256.453	2.65%	22.46%
16.0	1149.934	33.849	290.302	2.81%	25.42%
17.0	1136.836	35.611	325.914	2.95%	28.54%
18.0	1121.986	37.243	363.157	3.09%	31.80%
19.0	1104.601	38.738	401.895	3.21%	35.19%
20.0	1084.557	40.068	441.962	3.32%	38.70%
21.0	1061.898	41.216	483.179	3.42%	42.31%
22.0	1035.245	42.143	525.322	3.50%	46.00%
23.0	1004.173	42.792	568.114	3.55%	49.75%
24.0	968.877	43.138	611.252	3.58%	53.52%
25.0	927.176	43.112	654.364	3.58%	57.30%
26.0	883.964	42.752	697.116	3.55%	61.04%
27.0	834.692	42.047	739.164	3.49%	64.72%
28.0	781.092	40.908	780.072	3.39%	68.30%
29.0	725.214	39.409	819.481	3.27%	71.76%
30.0	664.373	37.519	857	3.11%	75.04%
31.0	602.639	35.259	892.259	2.93%	78.13%
32.0	540.825	32.759	925.018	2.72%	81.00%
33.0	479.756	30.067	955.084	2.49%	83.63%
34.0	419.712	27.221	982.305	2.26%	86.01%
35.0	358.970	24.183	1006.488	2.01%	88.13%
36.0	307.302	21.214	1027.702	1.76%	89.99%
37.0	262.759	18.592	1046.294	1.54%	91.62%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	218.911	16.077	1062.372	1.33%	93.02%
39.0	171.515	13.326	1075.698	1.11%	94.19%
40.0	121.877	10.232	1085.931	0.85%	95.09%
41.0	92.294	7.627	1093.557	0.63%	95.75%
42.0	69.419	5.875	1099.432	0.49%	96.27%
43.0	52.023	4.499	1103.931	0.37%	96.66%
44.0	39.378	3.450	1107.381	0.29%	96.96%
45.0	30.904	2.701	1110.082	0.22%	97.20%
46.0	25.263	2.197	1112.278	0.18%	97.39%
47.0	21.544	1.862	1114.14	0.15%	97.56%
48.0	18.859	1.633	1115.773	0.14%	97.70%
49.0	16.624	1.457	1117.23	0.12%	97.83%
50.0	14.974	1.317	1118.548	0.11%	97.94%
51.0	13.606	1.209	1119.757	0.10%	98.05%
52.0	12.282	1.111	1120.868	0.09%	98.15%
53.0	11.225	1.023	1121.89	0.08%	98.24%
54.0	10.223	0.945	1122.836	0.08%	98.32%
55.0	9.356	0.874	1123.71	0.07%	98.39%
56.0	8.544	0.809	1124.519	0.07%	98.47%
57.0	7.835	0.749	1125.268	0.06%	98.53%
58.0	7.165	0.694	1125.961	0.06%	98.59%
59.0	6.635	0.645	1126.606	0.05%	98.65%
60.0	6.123	0.603	1127.209	0.05%	98.70%
61.0	5.640	0.561	1127.77	0.05%	98.75%
62.0	5.234	0.524	1128.294	0.04%	98.80%
63.0	4.938	0.495	1128.789	0.04%	98.84%
64.0	4.784	0.477	1129.266	0.04%	98.88%
65.0	4.711	0.470	1129.736	0.04%	98.92%
66.0	4.671	0.468	1130.204	0.04%	98.96%
67.0	4.664	0.469	1130.674	0.04%	99.00%
68.0	4.649	0.472	1131.145	0.04%	99.05%
69.0	4.656	0.475	1131.62	0.04%	99.09%
70.0	4.645	0.478	1132.098	0.04%	99.13%
71.0	4.642	0.480	1132.578	0.04%	99.17%
72.0	4.653	0.483	1133.061	0.04%	99.21%
73.0	4.642	0.486	1133.547	0.04%	99.26%
74.0	4.638	0.488	1134.035	0.04%	99.30%
75.0	4.642	0.490	1134.525	0.04%	99.34%

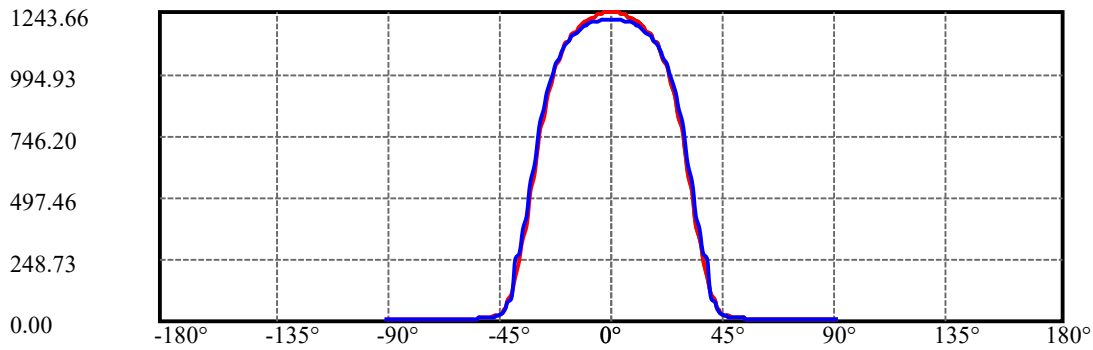
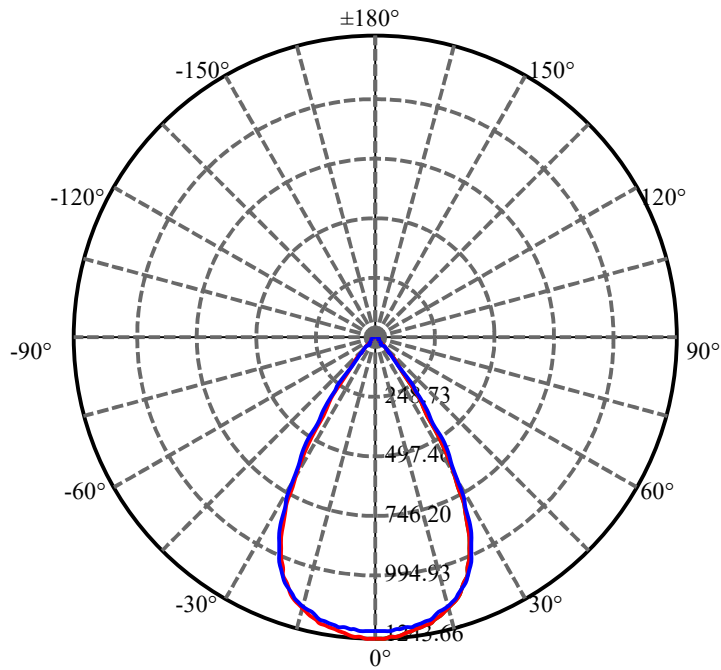
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.627	0.492	1135.017	0.04%	99.38%
77.0	4.631	0.494	1135.511	0.04%	99.43%
78.0	4.638	0.496	1136.007	0.04%	99.47%
79.0	4.620	0.497	1136.504	0.04%	99.51%
80.0	4.623	0.498	1137.003	0.04%	99.56%
81.0	4.616	0.500	1137.502	0.04%	99.60%
82.0	4.631	0.501	1138.004	0.04%	99.65%
83.0	4.612	0.502	1138.506	0.04%	99.69%
84.0	4.620	0.503	1139.009	0.04%	99.73%
85.0	4.609	0.504	1139.513	0.04%	99.78%
86.0	4.627	0.505	1140.018	0.04%	99.82%
87.0	4.620	0.506	1140.524	0.04%	99.87%
88.0	4.620	0.506	1141.03	0.04%	99.91%
89.0	4.623	0.507	1141.536	0.04%	99.96%
90.0	4.623	0.507	1142.043	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	857.00	71.11%	75.04%
0-40	1085.93	90.11%	95.09%
0-60	1127.21	93.54%	98.70%
0-90	1141.54	94.72%	99.96%
0-120	1141.54	94.72%	99.96%
0-180	1142.04	94.77%	100.00%
60-90	14.33	1.19%	1.25%
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%
0-31.65	913.63	75.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	116.26
10-20	325.70
20-30	415.04
30-40	228.93
40-50	32.62
50-60	8.66
60-70	4.89
70-80	4.90
80-90	4.53
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



C0(Max): —————

C0/C180: —————

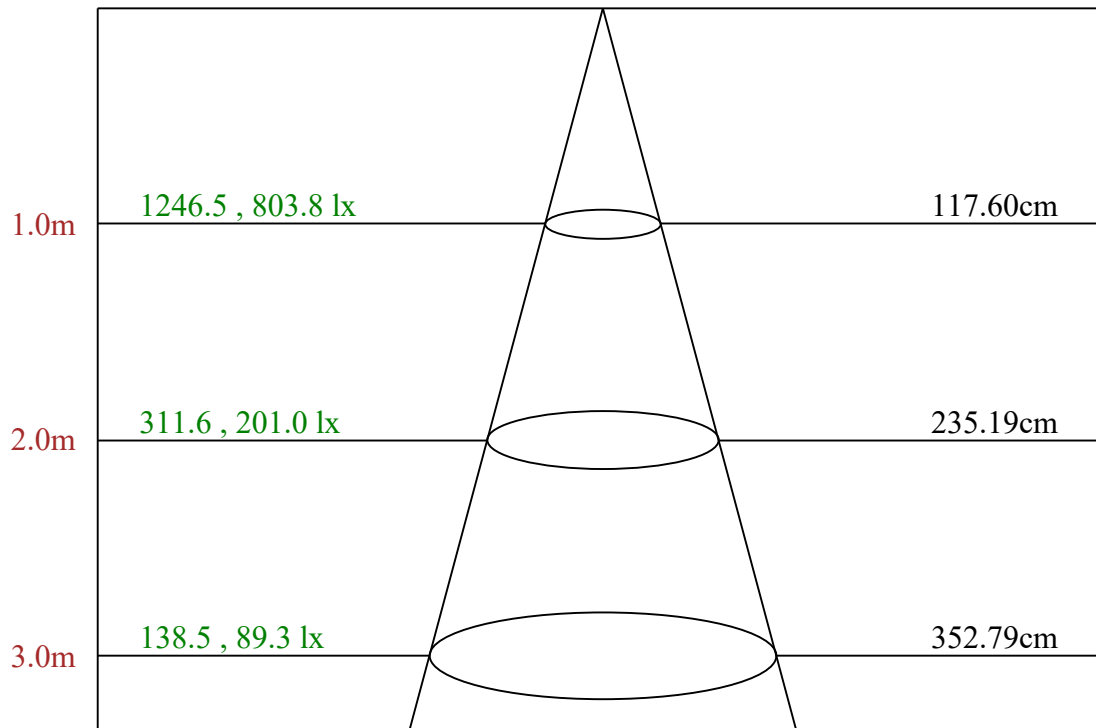
C90/C270: —————

Field angle(10%Imax):C0/180Left:39.3 Right:39.3

:C90/270Left:39.5 Right:39.5

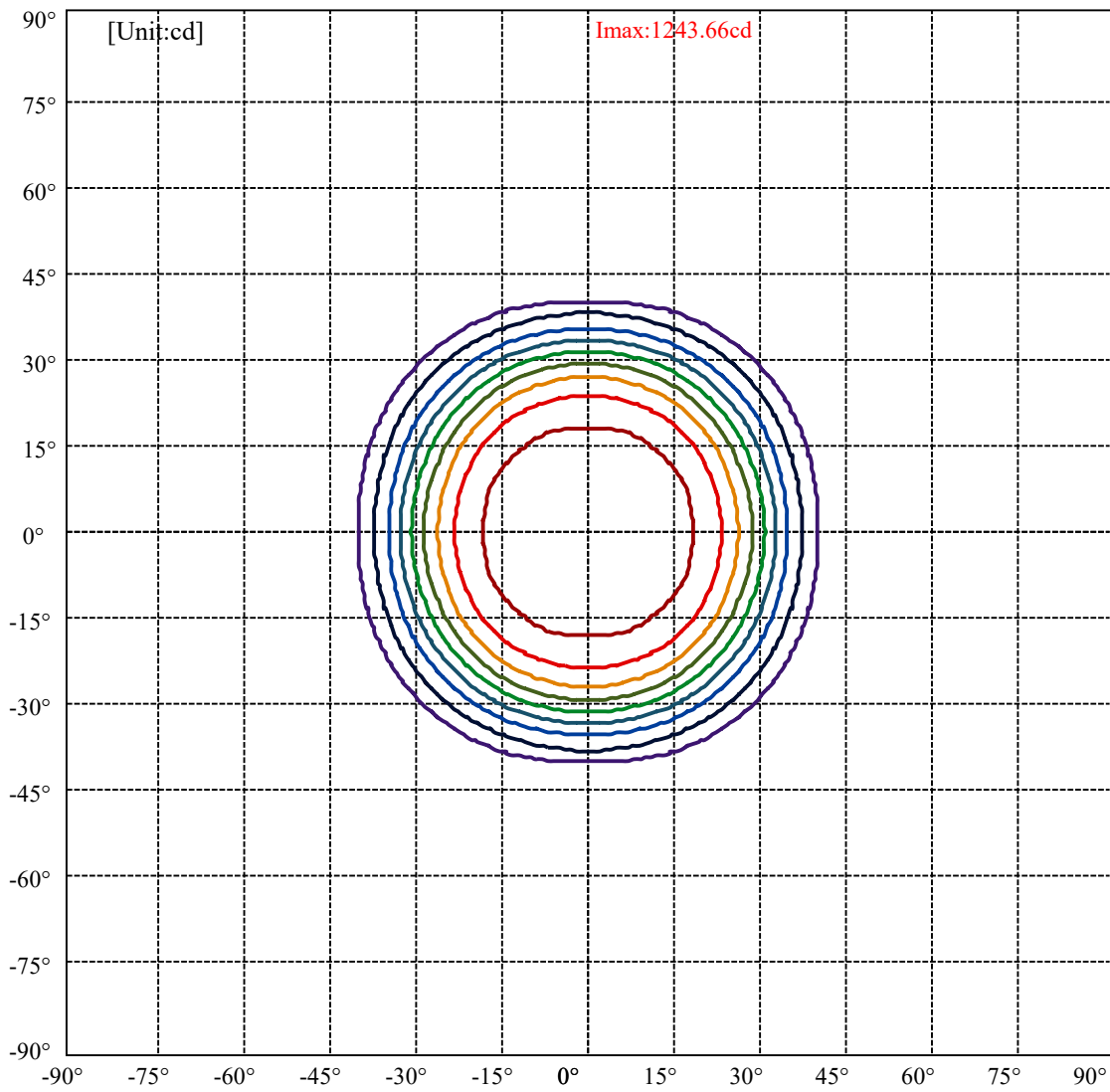
Beam Angle(50%Imax):C0/180Left:30.4 Right:30.4

:C90/270Left:31.3 Right:31.3



Max , Ave Beam angle of C0 plane 60.91

ISO-Intensity(V-H)



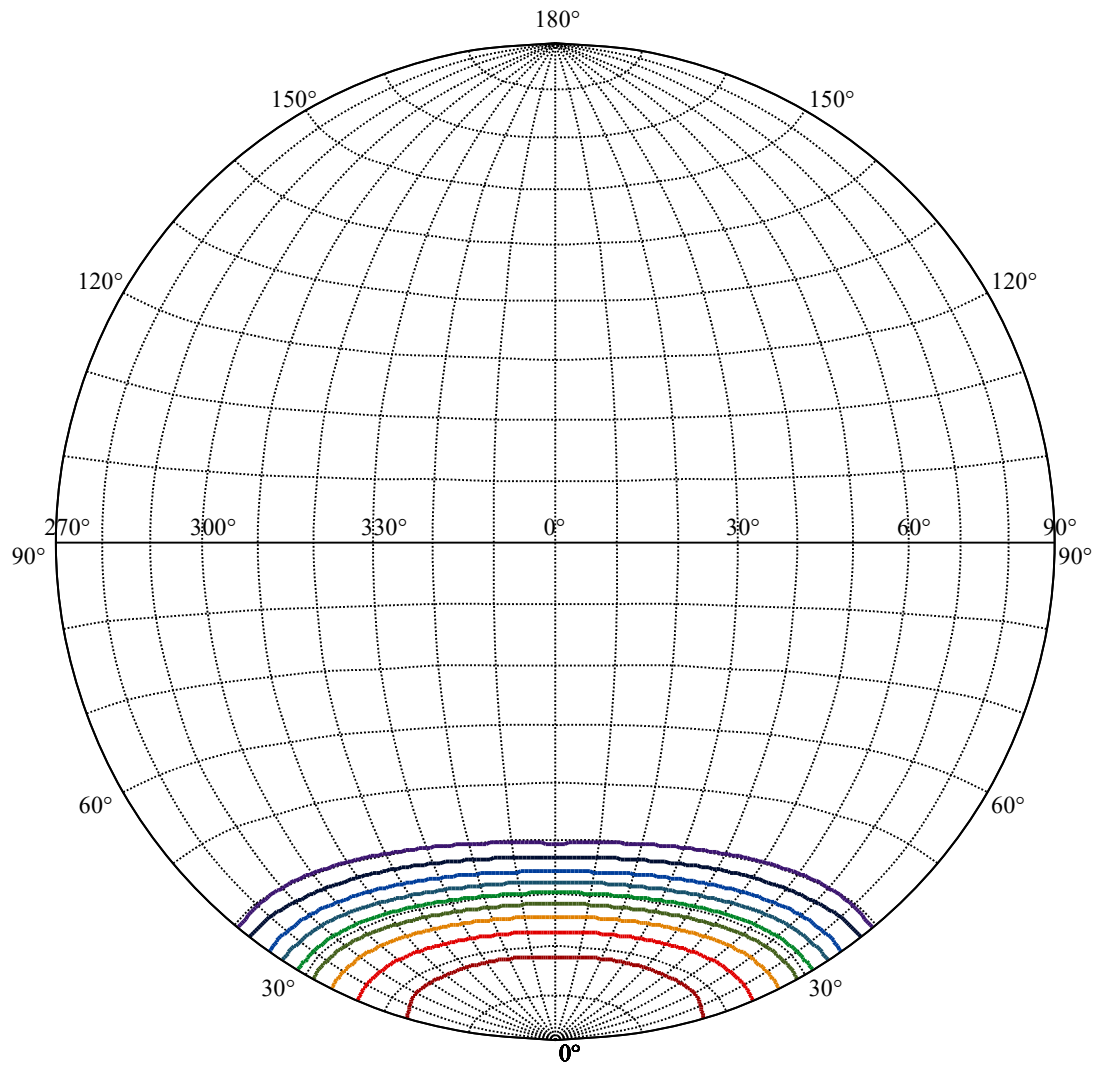
(10%Imax) 124.22	—
(20%Imax) 248.44	—
(30%Imax) 372.66	—
(40%Imax) 496.879	—
(50%Imax) 621.099	—
(60%Imax) 745.319	—
(70%Imax) 869.539	—
(80%Imax) 993.759	—
(90%Imax) 1117.98	—

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/19
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



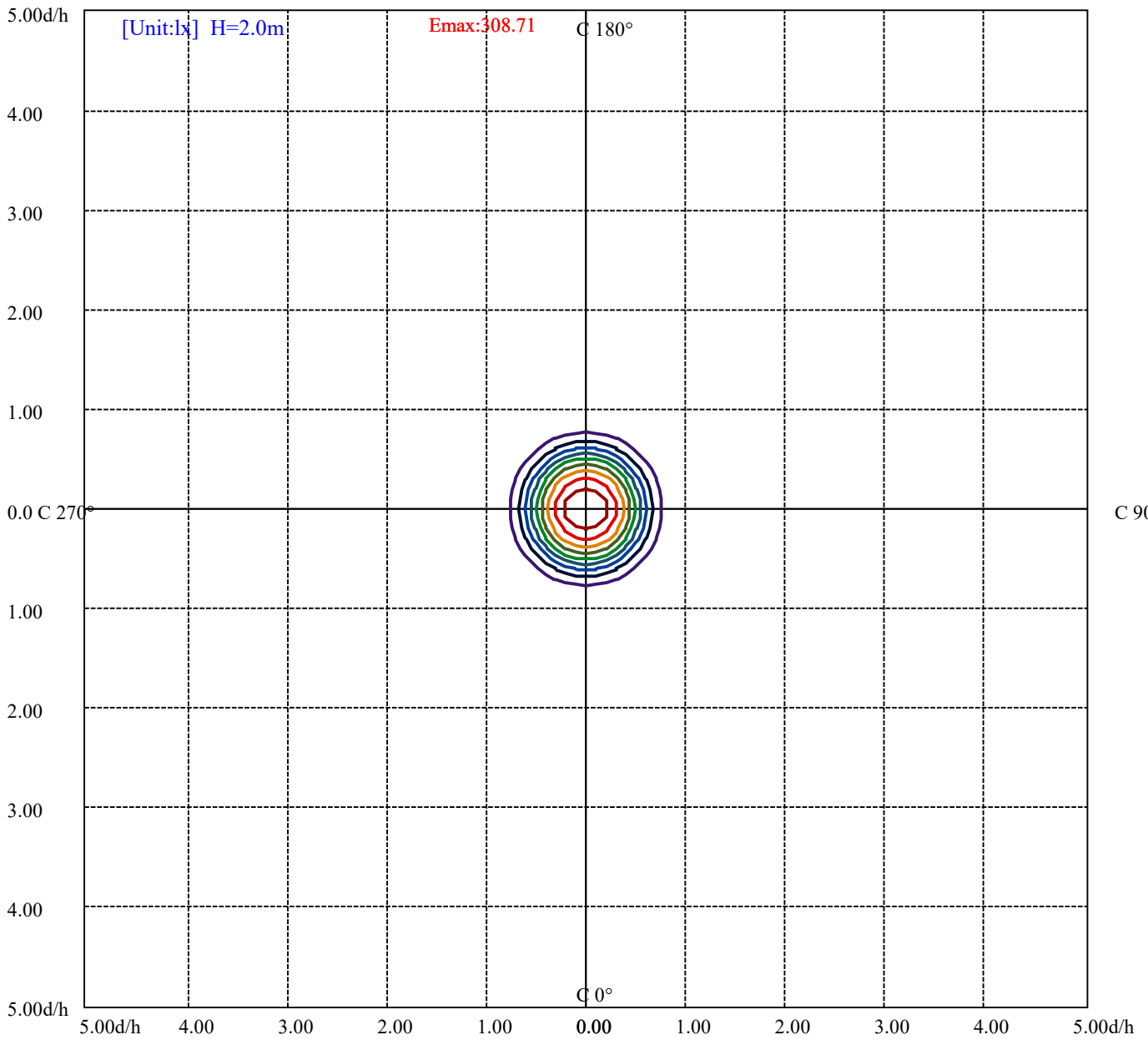
House

[Unit:cd]

Road

I_{max}:1243.66

(10%I _{max}) 124.653	—
(20%I _{max}) 249.306	—
(30%I _{max}) 373.959	—
(40%I _{max}) 498.612	—
(50%I _{max}) 623.265	—
(60%I _{max}) 747.918	—
(70%I _{max}) 872.57	—
(80%I _{max}) 997.223	—
(90%I _{max}) 1121.88	—



(10%Emax) 30.8705	—
(20%Emax) 61.74125	—
(30%Emax) 92.61175	—
(40%Emax) 123.4822	—
(50%Emax) 154.3528	—
(60%Emax) 185.2235	—
(70%Emax) 216.094	—
(80%Emax) 246.9645	—
(90%Emax) 277.835	—

Luminance Table

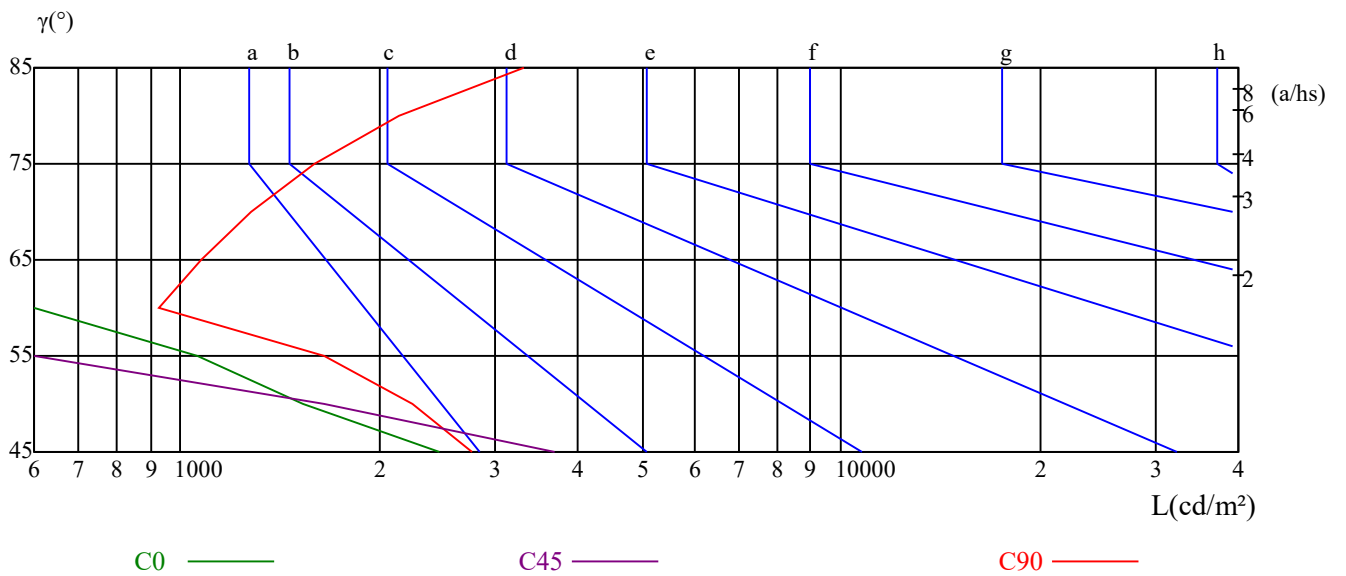
γ	45	50	55	60	65	70	75	80	85
C0	2463	1528	1063	560	597	644	704	785	893
C45	3684	1646	578	615	662	574	805	914	1067
C90	2759	2247	1653	930	1072	1277	1594	2142	3301

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1236	1236	1236	2019	2019	1807	5995	5995	5995

Glare Table

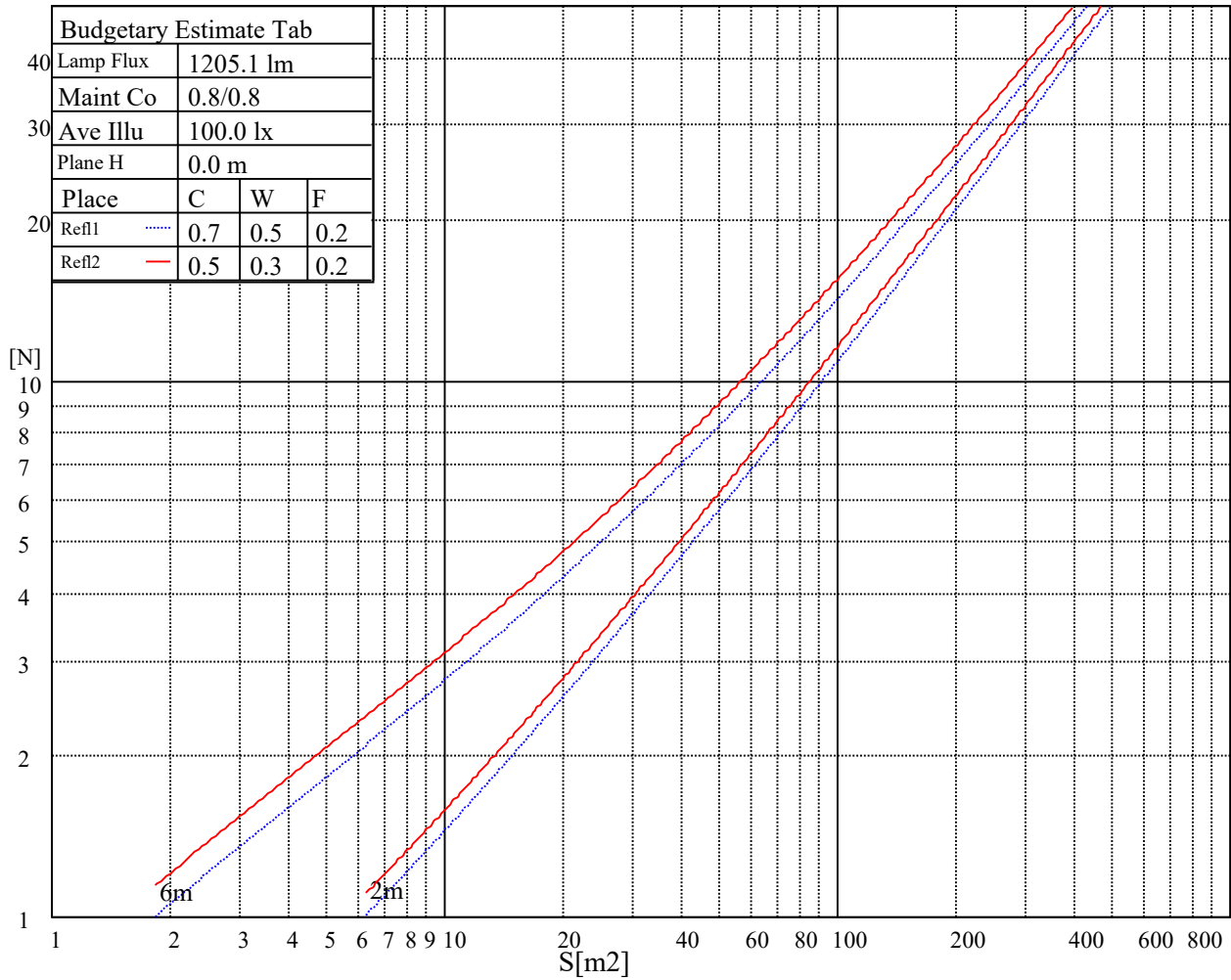
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	15.43	16.38	15.79	16.69	17.01	15.71	16.66	16.07	16.97	17.28
	3H	15.25	16.09	15.63	16.43	16.77	15.53	16.37	15.91	16.71	17.06
	4H	15.17	15.95	15.57	16.30	16.67	15.46	16.24	15.86	16.60	16.96
	6H	15.12	15.84	15.54	16.21	16.61	15.44	16.16	15.86	16.54	16.93
	8H	15.08	15.76	15.50	16.15	16.56	15.43	16.11	15.85	16.50	16.91
	12H	15.05	15.70	15.48	16.09	16.51	15.45	16.10	15.88	16.49	16.91
4H	2H	15.12	15.90	15.52	16.26	16.62	15.40	16.18	15.80	16.53	16.90
	3H	14.91	15.57	15.34	15.96	16.38	15.19	15.85	15.62	16.24	16.66
	4H	14.88	15.45	15.32	15.87	16.32	15.18	15.74	15.62	16.17	16.62
	6H	14.82	15.32	15.29	15.77	16.23	15.16	15.66	15.63	16.11	16.57
	8H	14.82	15.28	15.31	15.74	16.22	15.21	15.67	15.70	16.13	16.61
	12H	14.85	15.28	15.34	15.73	16.25	15.32	15.75	15.81	16.20	16.72
8H	4H	14.71	15.17	15.19	15.63	16.10	15.00	15.47	15.49	15.92	16.40
	6H	14.67	15.05	15.18	15.53	16.05	15.02	15.40	15.53	15.88	16.39
	8H	14.76	15.08	15.29	15.60	16.10	15.16	15.48	15.70	16.00	16.50
	12H	14.84	15.08	15.38	15.60	16.12	15.35	15.60	15.90	16.12	16.64
12H	4H	14.66	15.09	15.16	15.54	16.06	14.96	15.38	15.45	15.84	16.36
	6H	14.69	15.00	15.22	15.53	16.02	15.03	15.34	15.56	15.87	16.36
	8H	14.75	14.99	15.30	15.51	16.04	15.15	15.40	15.70	15.91	16.44
Variation with the observer position at spacings:											
S = 1.0H	5.7/-9.7					5.6/-9.8					
S = 1.5H	8.3/-8.2					8.2/-8.6					
S = 2.0H	10.0/-7.0					10.0/-7.4					
Standard tables:	BK1					BK0					
Uncorrected UGR	-3.5					-4.3					

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



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.05	1.02	1.00	1.03	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.88
2	0.98	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.77
4	0.85	0.80	0.76	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.67
6	0.75	0.70	0.66	0.75	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.63
7	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.59
8	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.61	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.55
9	0.63	0.58	0.54	0.63	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.52
10	0.60	0.54	0.51	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.50	0.57	0.53	0.50	0.49

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	1243.66	1244.25	1245.42	1246.59	1245.42	1242.49	1239.57	1234.30	1229.62
22.5	1236.64	1238.98	1240.15	1239.57	1239.57	1240.15	1238.98	1237.22	1234.88
45.0	1238.98	1241.32	1241.91	1241.91	1238.98	1235.47	1230.20	1224.35	1219.08
67.5	1222.59	1222.59	1223.18	1224.93	1227.28	1227.28	1224.93	1224.35	1219.08
90.0	1211.47	1212.64	1213.82	1214.99	1214.40	1213.82	1213.23	1212.64	1209.72
112.5	1220.25	1216.74	1215.57	1213.23	1212.06	1210.30	1210.89	1210.89	1209.72
135.0	1226.69	1227.86	1230.79	1231.37	1230.79	1227.28	1222.01	1217.91	1213.82
157.5	1244.83	1244.25	1244.25	1241.32	1238.98	1235.47	1230.20	1223.76	1217.91
180.0	1243.66	1240.15	1236.64	1233.71	1230.20	1224.35	1219.67	1213.82	1207.96
202.5	1236.64	1234.30	1229.62	1226.10	1223.18	1220.25	1217.91	1214.40	1207.38
225.0	1238.98	1235.47	1233.13	1231.37	1230.79	1229.03	1225.52	1220.84	1214.40
247.5	1222.59	1222.01	1222.01	1220.25	1217.33	1214.40	1210.30	1205.62	1200.94
270.0	1211.47	1210.89	1210.89	1207.96	1206.21	1203.28	1198.60	1195.67	1193.33
292.5	1220.25	1223.76	1226.10	1225.52	1222.59	1217.33	1212.64	1205.62	1199.77
315.0	1226.69	1226.69	1229.03	1230.20	1230.20	1226.10	1224.35	1219.67	1214.99
337.5	1244.83	1243.08	1241.91	1240.74	1237.81	1236.05	1233.71	1230.20	1226.10
360.0	1243.66	1244.25	1245.42	1246.59	1245.42	1242.49	1239.57	1234.30	1229.62
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1224.93	1220.25	1215.57	1207.96	1196.26	1167.17	1167.17	1158.39	1142.53
22.5	1231.37	1226.10	1221.42	1216.16	1211.47	1205.62	1199.18	1189.24	1176.36
45.0	1214.99	1209.13	1205.04	1199.77	1193.33	1190.41	1165.89	1165.89	1155.29
67.5	1216.16	1211.47	1204.45	1199.18	1193.92	1185.72	1180.46	1172.26	1164.66
90.0	1205.04	1199.77	1191.58	1166.76	1166.76	1162.73	1155.06	1145.93	1131.59
112.5	1209.13	1206.21	1202.11	1196.26	1189.82	1183.97	1176.95	1166.41	1156.46
135.0	1209.13	1202.70	1196.84	1167.70	1167.70	1162.49	1148.74	1137.09	1123.46
157.5	1212.64	1206.79	1199.77	1193.33	1186.89	1178.12	1169.34	1157.05	1144.76
180.0	1201.53	1195.09	1189.24	1178.70	1168.75	1160.56	1148.86	1137.15	1120.76
202.5	1201.53	1193.33	1165.83	1165.83	1163.78	1153.60	1137.74	1124.57	1107.95
225.0	1208.55	1200.94	1194.50	1187.48	1178.70	1171.09	1158.22	1145.93	1133.05
247.5	1196.84	1192.75	1165.83	1165.83	1163.95	1150.96	1140.84	1128.26	1116.49
270.0	1190.99	1186.31	1181.63	1175.78	1165.24	1155.88	1145.93	1135.40	1121.35
292.5	1194.50	1190.99	1193.92	1166.70	1166.70	1157.28	1147.57	1135.34	1123.11
315.0	1212.06	1206.79	1200.94	1190.99	1178.12	1163.49	1152.95	1142.42	1128.96
337.5	1222.01	1216.16	1210.30	1205.04	1198.01	1167.76	1167.76	1157.63	1142.59
360.0	1224.93	1220.25	1215.57	1207.96	1196.26	1167.17	1167.17	1158.39	1142.53
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1128.61	1112.40	1086.76	1064.58	1036.73	1008.23	971.82	930.86	877.08
22.5	1162.90	1147.68	1130.13	1113.74	1093.26	1061.07	1031.22	997.87	951.05
45.0	1144.82	1126.85	1108.77	1090.51	1068.56	1034.56	1001.09	962.64	921.79
67.5	1158.22	1149.44	1134.22	1118.42	1099.70	1076.87	1044.10	1010.74	975.04
90.0	1119.07	1106.13	1090.63	1064.00	1039.54	1012.09	981.42	940.16	901.19
112.5	1144.76	1129.54	1107.30	1087.99	1068.09	1044.10	1007.23	972.12	934.66
135.0	1105.02	1086.12	1065.52	1041.58	1005.01	970.19	929.75	887.49	828.15
157.5	1131.88	1116.67	1093.26	1068.68	1040.59	1010.16	976.21	925.30	879.65
180.0	1106.72	1086.24	1064.58	1038.25	1011.91	978.55	939.34	889.60	848.05
202.5	1089.51	1060.72	1034.09	1005.07	965.04	929.40	889.48	832.25	783.85
225.0	1117.84	1095.60	1076.29	1045.27	1017.76	987.33	941.69	902.48	860.34
247.5	1093.96	1070.67	1048.90	1021.98	991.55	955.97	912.54	878.07	836.99
270.0	1107.30	1092.09	1072.19	1054.63	1031.81	1000.21	973.87	935.25	898.96
292.5	1104.44	1085.24	1063.00	1038.95	1006.41	977.27	945.26	901.07	863.03
315.0	1115.50	1104.38	1099.11	1083.31	1063.41	1036.49	1008.40	962.75	924.71
337.5	1121.23	1103.85	1078.16	1053.41	1024.55	984.29	948.59	906.16	858.88
360.0	1128.61	1112.40	1086.76	1064.58	1036.73	1008.23	971.82	930.86	877.08

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	832.01	785.37	737.27	671.72	617.59	559.36	481.46	420.13	360.15
22.5	908.33	859.75	793.62	739.78	684.19	611.62	554.85	496.91	440.15
45.0	863.03	809.25	753.89	680.56	621.68	551.40	497.09	441.90	375.77
67.5	937.00	883.16	834.00	769.04	708.18	648.49	576.51	517.40	457.70
90.0	854.84	791.40	740.72	672.25	612.44	551.05	488.90	411.18	351.60
112.5	881.99	836.35	777.24	722.23	664.29	604.60	530.27	472.34	412.64
135.0	777.59	723.28	666.81	598.16	544.03	476.26	423.00	372.79	311.11
157.5	831.66	768.46	714.62	644.98	588.79	532.03	461.80	405.62	352.36
180.0	802.40	752.66	683.60	627.42	553.68	490.48	428.44	357.63	301.45
202.5	733.93	666.75	611.03	556.14	484.86	428.74	374.72	322.75	260.48
225.0	815.28	752.07	698.82	643.81	589.97	524.42	471.16	418.49	354.12
247.5	775.83	725.15	671.37	614.25	542.74	485.50	429.09	373.37	307.24
270.0	856.24	809.42	758.51	692.38	633.27	575.33	515.06	440.73	382.80
292.5	808.55	757.92	703.50	646.15	573.93	516.75	457.88	400.59	330.48
315.0	880.82	832.25	766.70	711.69	653.17	581.19	525.01	471.16	405.03
337.5	795.55	744.23	691.74	639.42	569.42	515.99	460.86	392.39	340.43
360.0	832.01	785.37	737.27	671.72	617.59	559.36	481.46	420.13	360.15
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	290.33	241.70	198.16	150.46	118.92	92.29	65.08	48.98	37.16
22.5	369.92	317.84	304.38	304.38	177.97	135.30	106.16	77.02	58.41
45.0	326.26	278.16	232.04	178.20	143.56	113.77	88.84	66.07	53.20
67.5	397.43	322.52	296.18	296.18	174.57	130.15	100.42	76.25	52.90
90.0	294.89	243.98	185.69	142.44	73.80	73.80	52.67	38.51	28.79
112.5	353.53	301.45	301.45	191.43	152.04	110.61	84.51	59.40	44.42
135.0	261.48	214.54	172.00	127.40	99.55	77.37	60.40	44.83	36.46
157.5	301.45	301.45	190.14	152.10	119.56	86.44	65.14	49.45	35.35
180.0	301.45	237.07	153.74	122.08	94.40	71.10	49.57	37.81	29.85
202.5	217.35	177.73	142.33	104.40	79.77	56.06	42.31	32.42	24.87
225.0	303.79	303.79	197.51	158.07	123.01	88.72	68.47	53.84	43.19
247.5	258.79	201.61	161.46	125.82	89.07	66.60	49.74	37.57	27.74
270.0	315.49	302.03	302.03	164.39	116.46	87.26	57.29	41.43	30.72
292.5	278.98	230.81	177.97	140.86	109.26	77.02	57.41	43.13	31.13
315.0	353.53	295.01	295.01	238.83	162.05	120.67	94.81	74.38	59.17
337.5	292.14	234.44	192.48	147.18	116.05	89.54	67.89	51.27	36.69
360.0	290.33	241.70	198.16	150.46	118.92	92.29	65.08	48.98	37.16
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	29.14	23.47	20.78	18.96	17.44	15.74	14.57	13.23	12.11
22.5	41.43	31.95	25.46	21.07	17.56	15.57	14.16	12.99	11.82
45.0	43.13	34.06	28.68	24.46	20.13	17.26	14.86	12.47	10.94
67.5	39.85	30.90	23.70	20.07	17.09	15.45	14.22	13.17	12.29
90.0	22.47	19.61	17.56	16.39	15.39	14.51	13.40	12.35	11.35
112.5	33.77	25.40	21.19	18.38	15.98	14.57	13.46	12.47	11.47
135.0	30.55	25.05	21.77	19.08	16.21	14.22	12.52	10.83	9.71
157.5	28.03	23.23	19.31	17.26	15.74	14.28	13.23	12.35	11.53
180.0	24.23	21.48	19.61	17.73	16.44	14.92	13.81	12.82	11.82
202.5	21.07	18.26	16.44	14.75	13.64	12.64	11.82	10.89	10.24
225.0	34.00	28.68	24.70	21.42	18.08	15.80	13.87	11.76	10.42
247.5	22.94	19.72	17.09	15.57	14.34	13.34	12.23	11.41	10.53
270.0	24.58	20.31	18.43	17.09	16.09	14.92	14.05	13.17	12.17
292.5	24.93	20.83	18.14	15.86	14.51	13.34	12.47	11.35	10.65
315.0	45.41	37.81	31.89	26.80	22.12	19.02	16.39	13.58	11.82
337.5	28.91	23.47	19.96	16.85	15.22	13.99	12.64	11.70	10.71
360.0	29.14	23.47	20.78	18.96	17.44	15.74	14.57	13.23	12.11

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.18	9.95	9.07	8.13	7.43	6.73	6.09	5.44	4.86
22.5	11.00	10.36	9.60	9.01	8.43	7.84	7.20	6.79	6.20
45.0	9.71	8.72	7.72	7.14	6.55	6.14	5.74	5.50	5.33
67.5	11.35	10.59	9.95	9.19	8.31	7.72	7.14	6.50	5.91
90.0	10.07	9.07	8.19	7.37	6.61	6.03	5.38	4.80	4.68
112.5	10.77	10.07	9.42	8.66	8.02	7.43	6.79	6.26	5.62
135.0	8.78	8.02	7.26	6.67	6.20	5.79	5.56	5.38	5.15
157.5	10.65	9.95	9.36	8.66	7.84	7.32	6.85	6.26	5.74
180.0	10.53	9.66	8.66	7.84	7.14	6.55	5.85	5.21	4.74
202.5	9.60	8.84	8.19	7.61	7.02	6.61	6.14	5.44	4.97
225.0	9.13	8.25	7.55	6.96	6.32	5.97	5.68	5.44	5.15
247.5	9.83	9.01	8.08	7.43	6.85	6.26	5.85	5.21	4.86
270.0	10.77	9.66	8.43	7.55	6.73	6.09	5.50	5.03	4.80
292.5	9.77	9.13	8.43	7.67	7.02	6.50	5.91	5.50	5.03
315.0	10.36	9.01	8.19	7.49	6.73	6.20	5.85	5.56	5.33
337.5	10.07	9.42	8.60	7.96	7.43	6.96	6.44	5.91	5.38
360.0	11.18	9.95	9.07	8.13	7.43	6.73	6.09	5.44	4.86
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.80	4.74	4.74	4.74	4.74	4.68	4.74	4.74	4.68
22.5	5.68	5.21	4.86	4.68	4.68	4.62	4.68	4.68	4.62
45.0	5.09	4.92	4.80	4.62	4.68	4.68	4.62	4.62	4.62
67.5	5.15	4.80	4.68	4.62	4.68	4.62	4.68	4.62	4.62
90.0	4.74	4.68	4.68	4.68	4.62	4.68	4.68	4.62	4.62
112.5	5.09	4.80	4.68	4.68	4.62	4.62	4.62	4.62	4.62
135.0	4.97	4.80	4.68	4.62	4.62	4.62	4.62	4.62	4.62
157.5	4.97	4.68	4.68	4.62	4.62	4.68	4.62	4.62	4.68
180.0	4.74	4.74	4.74	4.68	4.68	4.74	4.74	4.68	4.68
202.5	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.62	4.68
225.0	5.03	4.86	4.74	4.62	4.68	4.62	4.62	4.62	4.62
247.5	4.68	4.68	4.62	4.68	4.68	4.62	4.62	4.62	4.62
270.0	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68
292.5	4.68	4.62	4.62	4.68	4.62	4.68	4.62	4.62	4.62
315.0	5.09	4.97	4.86	4.74	4.68	4.56	4.62	4.68	4.62
337.5	4.92	4.68	4.62	4.68	4.62	4.56	4.62	4.62	4.62
360.0	4.80	4.74	4.74	4.74	4.74	4.68	4.74	4.74	4.68
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.68	4.68	4.68	4.68	4.74	4.74	4.74	4.68	4.74
22.5	4.68	4.68	4.62	4.68	4.62	4.62	4.62	4.62	4.62
45.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
67.5	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.56
90.0	4.68	4.62	4.68	4.68	4.62	4.62	4.62	4.62	4.62
112.5	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.56	4.62
135.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
157.5	4.68	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
180.0	4.68	4.74	4.68	4.68	4.68	4.68	4.68	4.68	4.68
202.5	4.68	4.68	4.68	4.62	4.62	4.62	4.62	4.62	4.62
225.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.56	4.62
247.5	4.68	4.62	4.62	4.62	4.62	4.62	4.62	4.56	4.62
270.0	4.62	4.62	4.62	4.68	4.62	4.62	4.68	4.62	4.62
292.5	4.62	4.62	4.62	4.62	4.62	4.56	4.62	4.62	4.56
315.0	4.68	4.62	4.62	4.62	4.56	4.62	4.62	4.62	4.62
337.5	4.62	4.62	4.62	4.62	4.56	4.62	4.62	4.62	4.56
360.0	4.68	4.68	4.68	4.68	4.74	4.74	4.74	4.68	4.74

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.68	4.68	4.68	4.74	4.68	4.68	4.68	4.68	4.68
22.5	4.68	4.62	4.62	4.62	4.68	4.62	4.62	4.68	4.68
45.0	4.56	4.62	4.62	4.62	4.68	4.68	4.62	4.62	4.68
67.5	4.62	4.62	4.56	4.62	4.62	4.62	4.62	4.62	4.62
90.0	4.62	4.62	4.62	4.62	4.56	4.62	4.56	4.56	4.62
112.5	4.62	4.62	4.56	4.62	4.56	4.62	4.62	4.62	4.56
135.0	4.56	4.62	4.56	4.62	4.62	4.68	4.62	4.68	4.62
157.5	4.62	4.62	4.62	4.62	4.56	4.62	4.62	4.62	4.56
180.0	4.68	4.68	4.68	4.62	4.68	4.68	4.62	4.68	4.68
202.5	4.62	4.68	4.62	4.62	4.62	4.68	4.68	4.56	4.62
225.0	4.62	4.62	4.62	4.56	4.56	4.56	4.56	4.62	4.62
247.5	4.62	4.62	4.56	4.62	4.56	4.56	4.62	4.56	4.56
270.0	4.56	4.62	4.62	4.62	4.56	4.62	4.62	4.56	4.62
292.5	4.56	4.56	4.56	4.62	4.56	4.56	4.62	4.56	4.62
315.0	4.62	4.62	4.62	4.56	4.62	4.62	4.62	4.62	4.62
337.5	4.56	4.62	4.62	4.56	4.56	4.56	4.56	4.62	4.56
360.0	4.68	4.68	4.68	4.74	4.68	4.68	4.68	4.68	4.68

C/γ(°)	90.0
0.0	4.74
22.5	4.62
45.0	4.62
67.5	4.62
90.0	4.56
112.5	4.62
135.0	4.68
157.5	4.62
180.0	4.68
202.5	4.62
225.0	4.56
247.5	4.56
270.0	4.62
292.5	4.62
315.0	4.62
337.5	4.56
360.0	4.74