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Nata

Client: NT

LumCAT: 69-0020 & 11-0161-S4-GB

Luminaire: L280*W40*H20(glossy black)

Report No: 20241119-B004

Ballast type: AC

Test No: 20241119-C004

Voltage(V): 23.800

LampCAT: CREE JE2835B_N×2

Current(A): 0.453

Lamp flux(lm): 1205.1

Power (W): 10.781

Number of Lamps: 1

PF: 0.000

Length(mm): 280

Width(mm): 40

Phm Type: C

Height(mm): 20

Photometric Results

Lumens(lm): 1107.67, Efficiency(%): 91.91% , Luminous Efficacy(lm/W): 102.74

Central intensity(cd): 1199.770, Maximum intensity(cd): 1199.770

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=61.4

[C90/270]Total=63.0

Field angle(10%Imax): [C0/180]Total=78.6

[C90/270]Total=79.8

Maximum s/h(1/2): C0_180=0.99 C90_270=1.02

Maximum s/h(1/4): C0_180=0.90 C90_270=0.92

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.05%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.580%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1187.480	0.000	0	0.00%	0.00%
1.0	1187.407	1.136	1.136	0.09%	0.10%
2.0	1186.613	3.407	4.544	0.28%	0.41%
3.0	1184.967	5.672	10.216	0.47%	0.92%
4.0	1182.458	7.925	18.14	0.66%	1.64%
5.0	1181.481	10.170	28.31	0.84%	2.56%
6.0	1176.968	12.394	40.704	1.03%	3.67%
7.0	1172.378	14.582	55.287	1.21%	4.99%
8.0	1166.021	16.735	72.022	1.39%	6.50%
9.0	1162.630	18.872	90.894	1.57%	8.21%
10.0	1158.149	21.002	111.897	1.74%	10.10%
11.0	1152.813	23.091	134.988	1.92%	12.19%
12.0	1146.053	25.130	160.118	2.09%	14.46%
13.0	1138.848	27.116	187.234	2.25%	16.90%
14.0	1130.527	29.048	216.282	2.41%	19.53%
15.0	1121.170	30.912	247.194	2.57%	22.32%
16.0	1110.388	32.699	279.892	2.71%	25.27%
17.0	1098.573	34.399	314.292	2.85%	28.37%
18.0	1085.761	36.015	350.307	2.99%	31.63%
19.0	1070.172	37.509	387.816	3.11%	35.01%
20.0	1051.722	38.837	426.652	3.22%	38.52%
21.0	1032.183	40.015	466.667	3.32%	42.13%
22.0	1009.067	41.020	507.687	3.40%	45.83%
23.0	978.577	41.706	549.393	3.46%	49.60%
24.0	946.013	42.078	591.472	3.49%	53.40%
25.0	906.382	42.119	633.591	3.50%	57.20%
26.0	865.306	41.821	675.412	3.47%	60.98%
27.0	818.913	41.205	716.617	3.42%	64.70%
28.0	767.288	40.159	756.776	3.33%	68.32%
29.0	713.729	38.748	795.524	3.22%	71.82%
30.0	658.034	37.037	832.561	3.07%	75.16%
31.0	595.598	34.887	867.448	2.89%	78.31%
32.0	537.163	32.452	899.9	2.69%	81.24%
33.0	477.522	29.893	929.793	2.48%	83.94%
34.0	416.501	27.056	956.849	2.25%	86.38%
35.0	358.699	24.075	980.924	2.00%	88.56%
36.0	302.883	21.065	1001.989	1.75%	90.46%
37.0	263.761	18.481	1020.469	1.53%	92.13%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	224.445	16.296	1036.765	1.35%	93.60%
39.0	166.186	13.333	1050.098	1.11%	94.80%
40.0	118.629	9.933	1060.032	0.82%	95.70%
41.0	88.658	7.381	1067.413	0.61%	96.37%
42.0	63.936	5.544	1072.957	0.46%	96.87%
43.0	45.494	4.054	1077.011	0.34%	97.23%
44.0	32.831	2.956	1079.967	0.25%	97.50%
45.0	23.720	2.173	1082.14	0.18%	97.70%
46.0	18.219	1.640	1083.78	0.14%	97.84%
47.0	14.557	1.304	1085.084	0.11%	97.96%
48.0	12.129	1.079	1086.163	0.09%	98.06%
49.0	10.479	0.928	1087.091	0.08%	98.14%
50.0	9.232	0.822	1087.913	0.07%	98.22%
51.0	8.263	0.740	1088.653	0.06%	98.28%
52.0	7.458	0.675	1089.328	0.06%	98.34%
53.0	6.836	0.622	1089.949	0.05%	98.40%
54.0	6.335	0.581	1090.53	0.05%	98.45%
55.0	5.955	0.549	1091.079	0.05%	98.50%
56.0	5.593	0.522	1091.6	0.04%	98.55%
57.0	5.326	0.499	1092.1	0.04%	98.59%
58.0	5.106	0.482	1092.582	0.04%	98.64%
59.0	4.949	0.470	1093.052	0.04%	98.68%
60.0	4.821	0.462	1093.514	0.04%	98.72%
61.0	4.704	0.455	1093.968	0.04%	98.76%
62.0	4.638	0.450	1094.418	0.04%	98.80%
63.0	4.579	0.448	1094.867	0.04%	98.84%
64.0	4.535	0.447	1095.314	0.04%	98.88%
65.0	4.514	0.448	1095.762	0.04%	98.93%
66.0	4.503	0.450	1096.212	0.04%	98.97%
67.0	4.499	0.453	1096.664	0.04%	99.01%
68.0	4.495	0.456	1097.12	0.04%	99.05%
69.0	4.495	0.459	1097.578	0.04%	99.09%
70.0	4.495	0.462	1098.04	0.04%	99.13%
71.0	4.506	0.465	1098.505	0.04%	99.17%
72.0	4.488	0.468	1098.973	0.04%	99.22%
73.0	4.484	0.469	1099.442	0.04%	99.26%
74.0	4.473	0.471	1099.913	0.04%	99.30%
75.0	4.477	0.473	1100.386	0.04%	99.34%

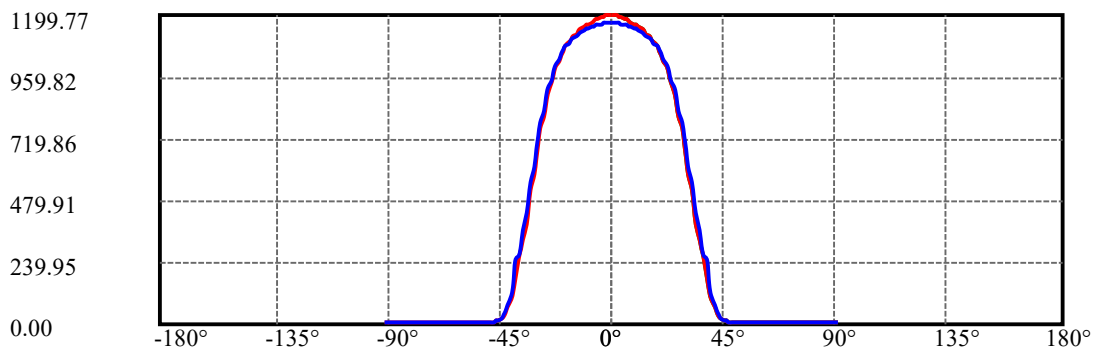
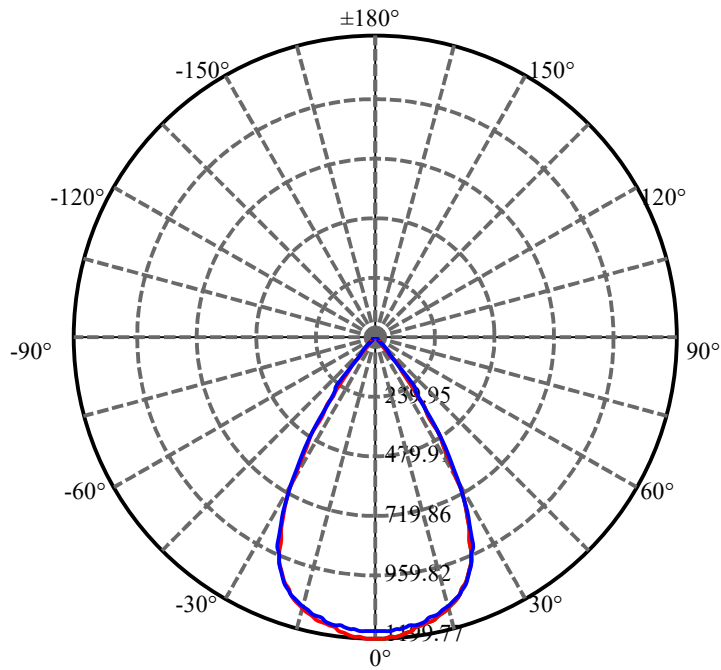
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.470	0.475	1100.861	0.04%	99.39%
77.0	4.477	0.477	1101.338	0.04%	99.43%
78.0	4.473	0.479	1101.817	0.04%	99.47%
79.0	4.477	0.481	1102.298	0.04%	99.52%
80.0	4.481	0.483	1102.781	0.04%	99.56%
81.0	4.477	0.484	1103.265	0.04%	99.60%
82.0	4.481	0.486	1103.751	0.04%	99.65%
83.0	4.477	0.487	1104.238	0.04%	99.69%
84.0	4.473	0.488	1104.726	0.04%	99.73%
85.0	4.481	0.489	1105.214	0.04%	99.78%
86.0	4.484	0.490	1105.704	0.04%	99.82%
87.0	4.473	0.490	1106.195	0.04%	99.87%
88.0	4.488	0.491	1106.685	0.04%	99.91%
89.0	4.477	0.491	1107.177	0.04%	99.96%
90.0	4.473	0.491	1107.668	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	832.56	69.09%	75.16%
0-40	1060.03	87.96%	95.70%
0-60	1093.51	90.74%	98.72%
0-90	1107.18	91.87%	99.96%
0-120	1107.18	91.87%	99.96%
0-180	1107.67	91.91%	100.00%
60-90	13.66	1.13%	1.23%
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%
0-31.58	886.13	73.53%	80.00%

ZONAL LUMEN SUMMARY

0-10	111.90
10-20	314.76
20-30	405.91
30-40	227.47
40-50	27.88
50-60	5.60
60-70	4.53
70-80	4.74
80-90	4.40
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: ———

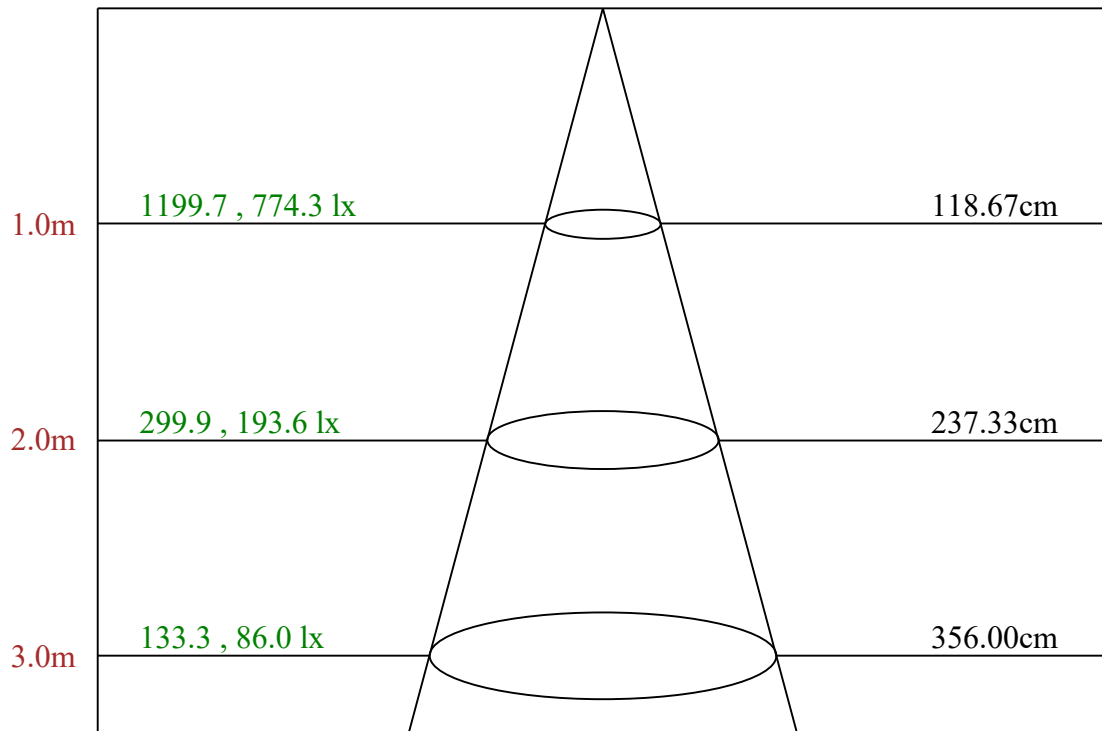
C90/C270: ———

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

:C90/270Left:39.9 Right:39.9

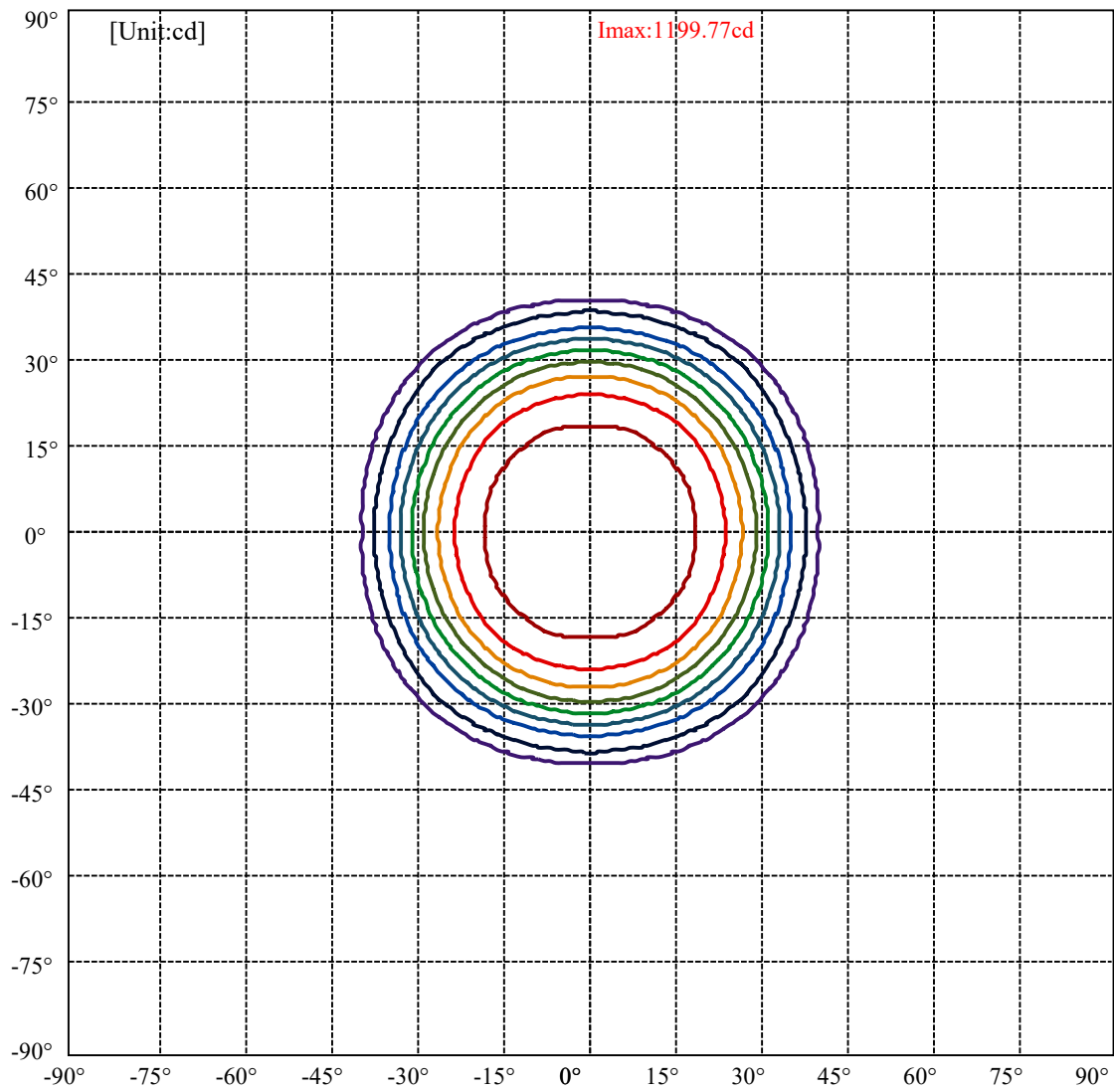
Beam Angle(50%Imax):C0/180Left:30.7 Right:30.7

:C90/270Left:31.5 Right:31.5



Max , Ave Beam angle of C0 plane 61.36

ISO-Intensity(V-H)

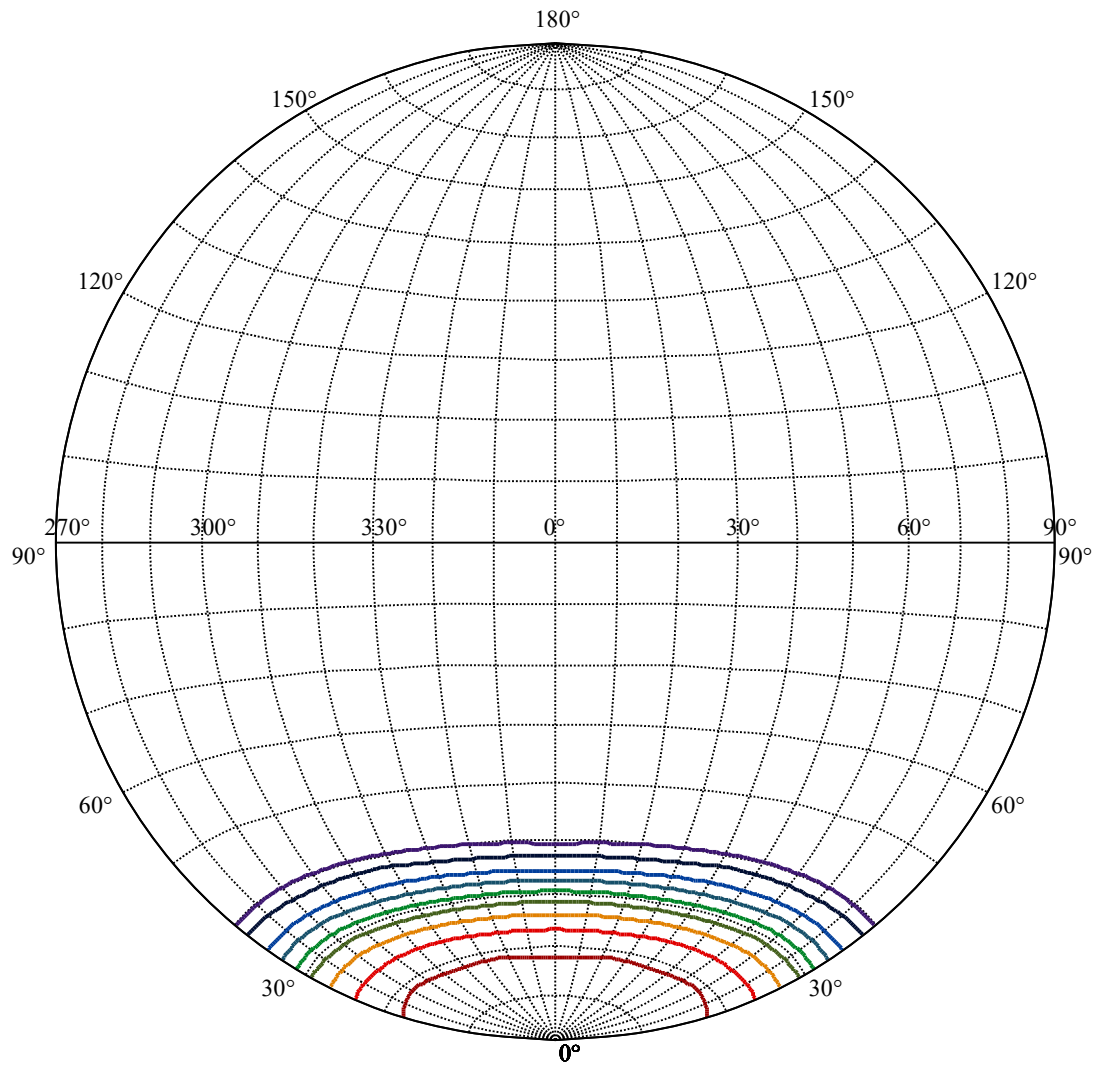


(10%Imax) 119.889	—
(20%Imax) 239.778	—
(30%Imax) 359.668	—
(40%Imax) 479.557	—
(50%Imax) 599.446	—
(60%Imax) 719.335	—
(70%Imax) 839.224	—
(80%Imax) 959.114	—
(90%Imax) 1079	—

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65



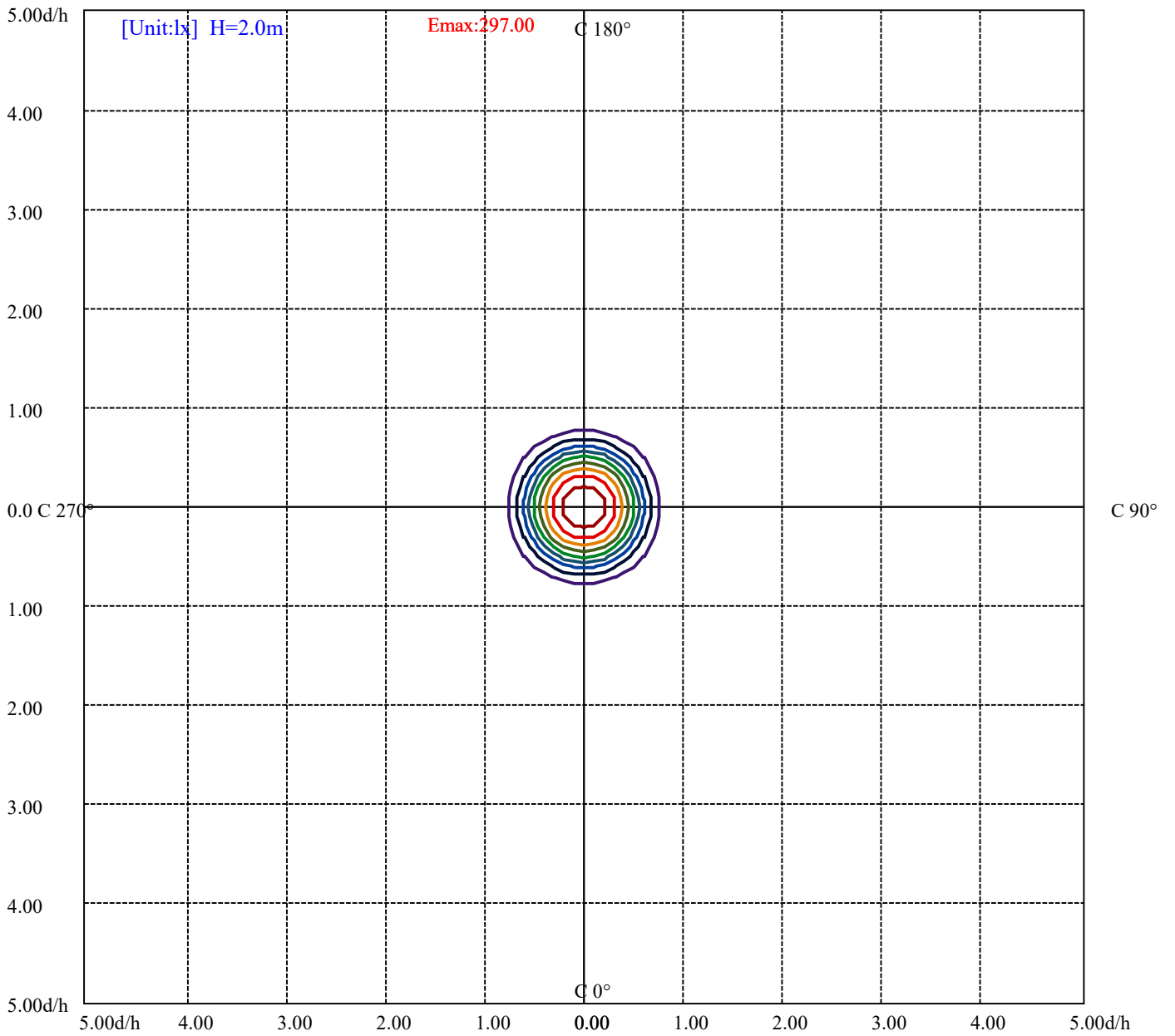
House

[Unit:cd]

Road

Imax:1199.77

(10%Imax) 119.971	—
(20%Imax) 239.942	—
(30%Imax) 359.913	—
(40%Imax) 479.885	—
(50%Imax) 599.856	—
(60%Imax) 719.827	—
(70%Imax) 839.798	—
(80%Imax) 959.769	—
(90%Imax) 1079.74	—



- (10%Emax) 29.70025
- (20%Emax) 59.40025
- (30%Emax) 89.1005
- (40%Emax) 118.8005
- (50%Emax) 148.5007
- (60%Emax) 178.2007
- (70%Emax) 207.901
- (80%Emax) 237.601
- (90%Emax) 267.3

Luminance Table

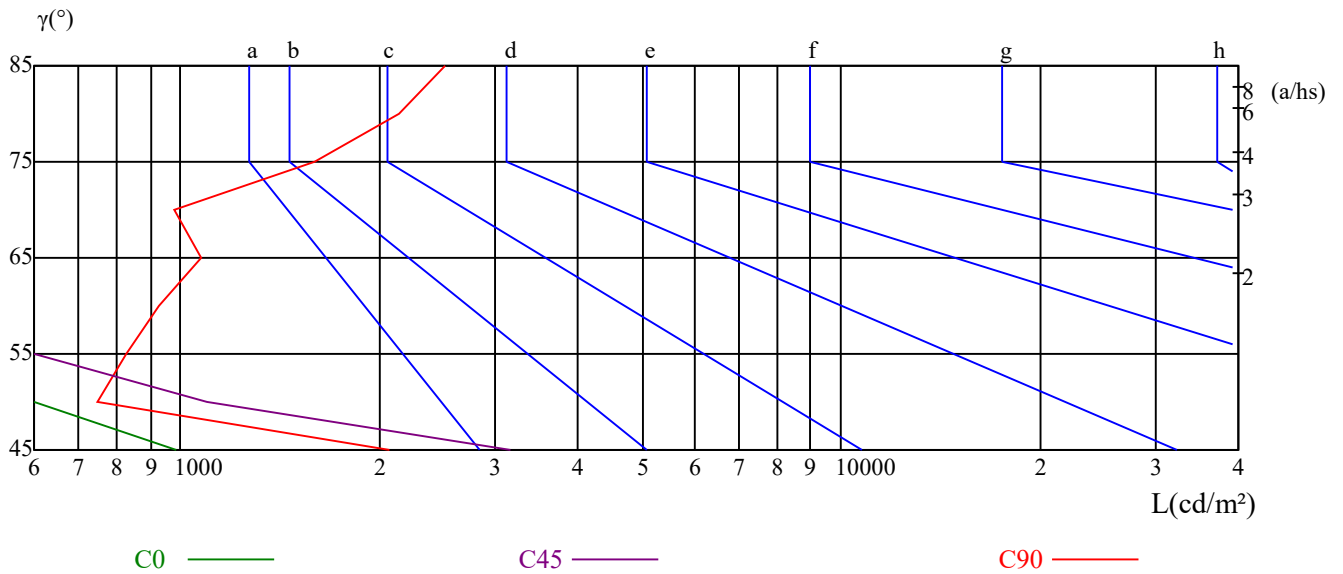
γ	45	50	55	60	65	70	75	80	85
C0	985	509	531	560	597	644	704	785	893
C45	3158	1097	578	615	662	724	805	914	819
C90	2069	749	827	930	1072	977	1594	2142	2508

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	2019	5995	4556	5298

Glare Table

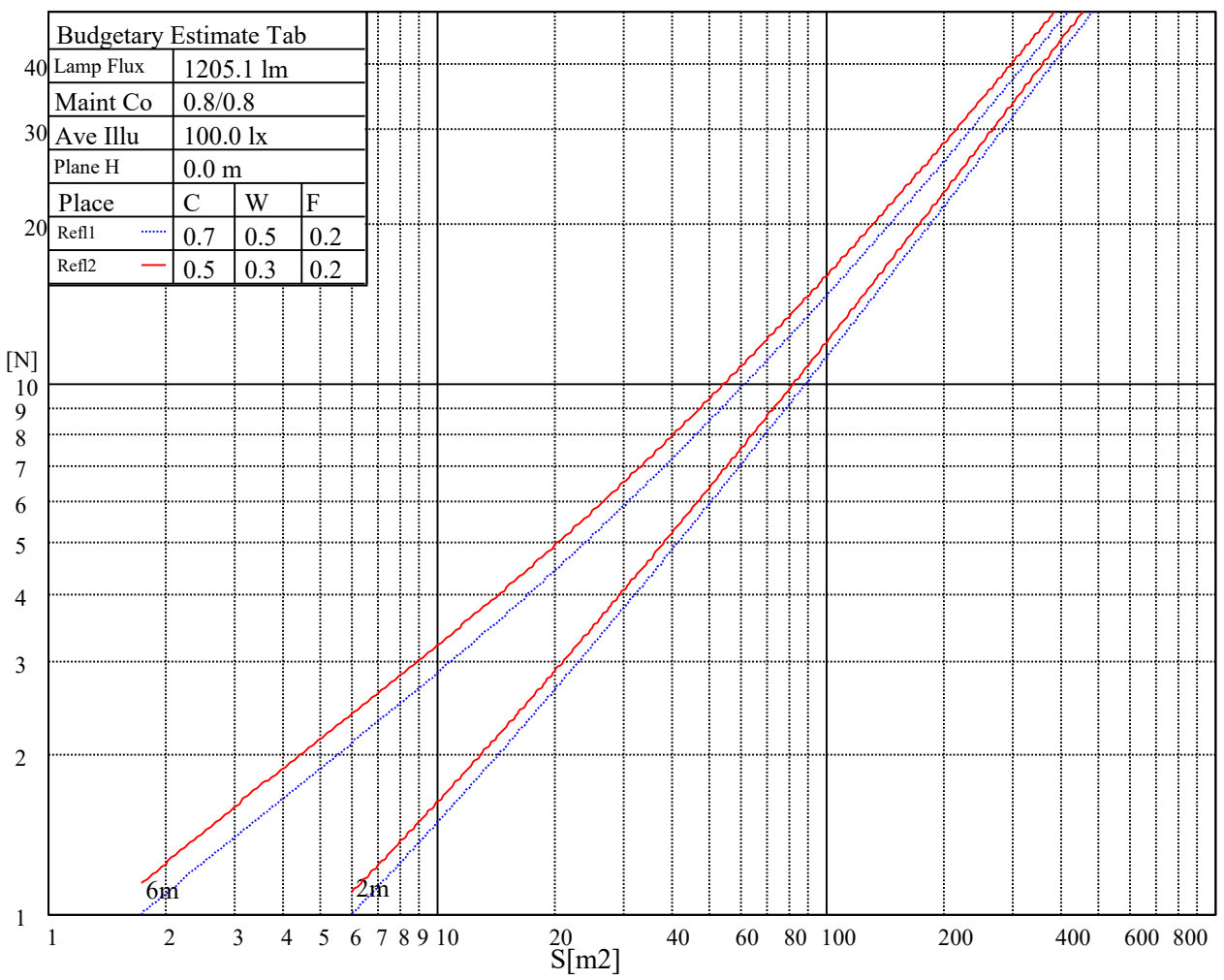
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	15.30	16.24	15.66	16.55	16.87	15.55	16.49	15.91	16.80	17.12
	3H	15.11	15.95	15.50	16.28	16.63	15.37	16.20	15.76	16.54	16.89
	4H	15.03	15.81	15.43	16.16	16.53	15.30	16.07	15.70	16.43	16.80
	6H	14.99	15.69	15.41	16.07	16.47	15.28	15.99	15.70	16.37	16.77
	8H	14.95	15.62	15.37	16.01	16.41	15.27	15.95	15.69	16.33	16.74
	12H	14.92	15.56	15.34	15.95	16.37	15.29	15.93	15.72	16.33	16.75
4H	2H	14.98	15.76	15.38	16.11	16.48	15.23	16.01	15.63	16.36	16.73
	3H	14.77	15.42	15.20	15.82	16.24	15.03	15.68	15.46	16.08	16.49
	4H	14.74	15.30	15.18	15.73	16.18	15.01	15.57	15.45	16.00	16.45
	6H	14.68	15.18	15.15	15.63	16.08	15.00	15.49	15.47	15.94	16.40
	8H	14.68	15.14	15.17	15.60	16.08	15.05	15.50	15.53	15.96	16.44
	12H	14.71	15.13	15.20	15.59	16.11	15.16	15.58	15.65	16.03	16.55
8H	4H	14.57	15.02	15.05	15.48	15.96	14.84	15.30	15.32	15.75	16.23
	6H	14.54	14.91	15.04	15.39	15.90	14.86	15.23	15.36	15.71	16.22
	8H	14.62	14.93	15.16	15.46	15.96	15.00	15.31	15.53	15.84	16.33
	12H	14.70	14.94	15.25	15.46	15.98	15.19	15.43	15.74	15.95	16.48
12H	4H	14.52	14.95	15.01	15.40	15.92	14.79	15.21	15.28	15.67	16.19
	6H	14.55	14.86	15.08	15.38	15.88	14.86	15.18	15.40	15.70	16.20
	8H	14.61	14.85	15.16	15.37	15.90	14.99	15.23	15.53	15.75	16.27
Variation with the observer position at spacings:											
S = 1.0H	5.7/-10.5					5.7/-10.8					
S = 1.5H	8.3/-8.5					8.3/-8.9					
S = 2.0H	10.1/-7.2					10.2/-7.7					
Standard tables:	BK1					BK0					
Uncorrected UGR	-3.6					-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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.81	0.80
3	0.89	0.84	0.80	0.87	0.83	0.80	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.75
4	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.70
5	0.78	0.73	0.69	0.77	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.65
6	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.61
7	0.69	0.63	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.57
8	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.54
9	0.61	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.51
10	0.58	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.56	0.52	0.49	0.48

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	1199.77	1199.77	1199.18	1198.01	1195.09	1192.75	1189.82	1184.55	1166.94
22.5	1194.50	1195.09	1195.09	1193.92	1192.16	1192.16	1190.41	1188.65	1184.55
45.0	1194.50	1195.67	1196.84	1198.01	1198.01	1195.09	1191.58	1185.72	1167.47
67.5	1180.46	1181.04	1182.21	1183.38	1183.38	1182.21	1180.46	1176.95	1173.43
90.0	1170.51	1171.68	1167.76	1167.76	1167.11	1166.29	1164.36	1162.55	1158.28
112.5	1176.36	1175.19	1173.43	1171.68	1171.68	1171.68	1172.26	1172.26	1172.26
135.0	1182.21	1186.89	1191.58	1191.58	1189.82	1187.48	1183.38	1166.76	1166.76
157.5	1201.53	1202.11	1200.35	1198.60	1195.09	1191.58	1186.31	1181.63	1175.78
180.0	1199.77	1198.01	1195.09	1191.58	1187.48	1182.80	1176.95	1171.68	1165.83
202.5	1194.50	1192.75	1189.24	1182.80	1179.29	1191.58	1166.59	1165.83	1161.79
225.0	1194.50	1193.33	1190.41	1188.65	1187.48	1185.72	1179.87	1174.61	1168.75
247.5	1180.46	1178.70	1179.29	1167.58	1167.58	1166.82	1162.61	1159.16	1154.94
270.0	1170.51	1169.34	1168.17	1167.00	1164.07	1161.14	1158.22	1153.54	1150.03
292.5	1176.36	1178.70	1179.87	1181.63	1179.29	1167.29	1164.83	1158.51	1152.95
315.0	1182.21	1181.63	1182.21	1183.97	1182.80	1181.04	1178.12	1173.43	1169.34
337.5	1201.53	1198.60	1195.09	1193.33	1190.99	1188.07	1185.72	1182.21	1167.23
360.0	1199.77	1199.77	1199.18	1198.01	1195.09	1192.75	1189.82	1184.55	1166.94

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1166.94	1163.90	1159.45	1152.25	1142.94	1133.29	1119.89	1106.95	1094.25
22.5	1181.04	1177.53	1174.02	1167.58	1163.49	1155.29	1149.44	1141.25	1126.62
45.0	1167.47	1164.25	1159.21	1151.25	1144.29	1138.03	1128.61	1119.07	1109.47
67.5	1169.92	1164.66	1158.80	1153.54	1148.27	1143.00	1137.15	1131.88	1126.62
90.0	1153.95	1148.04	1139.78	1134.63	1128.14	1121.47	1113.39	1104.85	1094.72
112.5	1169.92	1166.41	1160.56	1155.29	1150.03	1144.17	1135.98	1128.96	1120.18
135.0	1163.02	1156.87	1150.03	1141.36	1133.41	1124.39	1112.28	1100.98	1089.75
157.5	1170.51	1165.24	1159.97	1153.54	1147.68	1141.83	1133.05	1124.28	1113.74
180.0	1161.14	1154.71	1150.03	1142.42	1133.05	1122.52	1114.33	1103.79	1089.75
202.5	1157.22	1150.20	1144.23	1135.86	1128.43	1117.14	1106.19	1094.72	1078.16
225.0	1163.49	1158.80	1153.54	1147.68	1140.66	1133.64	1124.86	1113.16	1101.45
247.5	1151.43	1147.28	1141.25	1135.10	1128.08	1119.24	1106.48	1093.79	1079.39
270.0	1147.10	1143.00	1139.49	1131.88	1124.28	1115.50	1107.89	1095.60	1085.07
292.5	1147.04	1143.41	1139.78	1133.52	1127.49	1121.12	1112.86	1098.53	1085.48
315.0	1164.66	1162.32	1156.46	1148.86	1137.74	1123.11	1110.82	1097.94	1086.24
337.5	1167.23	1163.78	1158.39	1152.07	1143.59	1134.69	1125.50	1110.46	1096.30
360.0	1166.94	1163.90	1159.45	1152.25	1142.94	1133.29	1119.89	1106.95	1094.25

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1078.22	1062.89	1043.75	1020.46	1000.91	976.62	944.73	896.33	856.89
22.5	1114.33	1100.87	1086.82	1068.68	1048.78	1025.37	997.87	959.83	924.71
45.0	1097.94	1085.77	1070.44	1053.76	1033.45	1002.02	972.12	927.17	886.79
67.5	1119.01	1110.82	1096.18	1080.97	1062.24	1040.00	1008.40	976.21	941.10
90.0	1084.13	1070.84	1056.10	1037.02	1008.34	981.60	943.91	911.02	873.62
112.5	1109.06	1092.09	1076.29	1059.32	1041.17	1014.25	986.16	945.20	908.33
135.0	1077.46	1059.02	1040.12	1018.70	993.42	954.62	917.98	868.47	823.35
157.5	1099.70	1085.07	1068.68	1041.76	1015.42	989.09	957.49	911.84	870.87
180.0	1078.04	1056.97	1040.59	1024.20	994.36	961.58	925.88	887.84	839.27
202.5	1062.01	1042.64	1012.50	985.28	955.91	915.58	878.95	836.70	790.05
225.0	1087.41	1072.19	1050.54	1030.64	1006.06	972.70	939.93	894.28	853.90
247.5	1065.23	1046.09	1017.18	996.87	973.76	932.85	896.21	863.09	828.27
270.0	1074.53	1060.49	1041.76	1023.62	1003.13	979.73	946.95	918.86	879.07
292.5	1072.42	1055.69	1030.46	1008.28	982.53	948.71	917.81	874.68	838.28
315.0	1071.02	1059.90	1033.46	1015.86	992.40	965.48	937.97	905.20	870.13
337.5	1081.67	1061.42	1042.70	1019.52	993.19	957.02	923.84	885.39	830.26
360.0	1078.22	1062.89	1043.75	1020.46	1000.91	976.62	944.73	896.33	856.89

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	814.22	769.22	707.83	656.33	589.26	533.32	472.39	397.08	338.49
22.5	874.38	828.15	778.41	712.28	657.85	600.50	547.24	476.43	420.25
45.0	840.56	775.01	720.94	664.58	595.23	541.22	488.31	434.94	370.51
67.5	904.23	853.32	806.50	756.75	687.11	630.35	574.16	501.60	442.49
90.0	818.67	771.74	723.46	671.14	599.27	540.16	478.19	416.50	343.12
112.5	866.78	814.69	769.63	718.71	648.49	592.31	533.78	475.26	400.94
135.0	775.60	709.70	655.45	601.67	536.48	483.63	431.31	380.81	318.30
157.5	824.06	776.65	713.45	660.19	604.60	536.12	480.53	410.89	356.46
180.0	797.13	748.56	698.23	629.76	572.99	516.81	440.73	376.94	321.93
202.5	730.19	678.74	624.55	571.06	500.84	445.30	390.70	323.86	273.01
225.0	808.25	762.61	698.23	644.39	592.31	540.22	474.68	421.42	369.92
247.5	772.09	723.86	672.66	619.58	549.47	493.52	425.28	369.92	315.67
270.0	841.61	795.38	737.44	685.94	626.83	563.04	502.77	440.73	389.23
292.5	797.54	738.44	685.77	629.88	574.40	505.34	449.57	394.50	338.44
315.0	856.24	798.89	746.81	691.21	635.03	566.56	512.13	458.29	406.79
337.5	781.04	731.65	680.32	615.07	559.42	506.22	438.57	384.84	333.64
360.0	814.22	769.22	707.83	656.33	589.26	533.32	472.39	397.08	338.49
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	283.25	221.27	178.32	141.33	108.68	75.14	53.20	36.81	25.16
22.5	364.65	312.57	299.69	240.23	163.75	129.51	93.64	70.99	51.97
45.0	320.70	272.31	227.07	173.87	138.46	108.21	77.83	60.22	46.99
67.5	368.17	311.40	297.94	297.94	155.85	121.55	92.52	67.83	48.92
90.0	288.75	238.19	179.25	136.18	101.71	67.07	44.95	30.37	18.90
112.5	342.42	304.38	304.38	182.53	144.26	110.84	83.22	56.42	40.09
135.0	269.03	221.86	177.91	130.51	100.83	71.98	54.48	41.26	30.26
157.5	304.38	304.38	190.37	150.34	116.28	87.32	58.64	42.14	29.85
180.0	295.60	295.60	161.29	115.99	87.08	61.98	41.96	25.57	17.26
202.5	228.12	176.85	139.69	107.33	73.86	53.31	37.86	26.28	17.85
225.0	319.59	295.60	295.60	160.06	122.72	93.28	65.55	49.92	38.57
247.5	254.22	208.46	166.85	130.56	91.94	67.65	48.46	34.65	23.35
270.0	317.84	305.55	305.55	171.88	123.42	88.49	64.32	38.80	26.39
292.5	272.95	226.72	183.88	137.70	105.63	79.30	58.00	38.62	28.27
315.0	343.00	297.35	297.35	242.05	154.27	120.32	87.67	67.77	52.73
337.5	273.48	227.71	185.98	140.45	109.32	82.58	60.69	40.26	28.73
360.0	283.25	221.27	178.32	141.33	108.68	75.14	53.20	36.81	25.16
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	16.09	12.35	10.42	8.95	8.25	7.43	7.02	6.61	6.26
22.5	34.59	24.81	17.26	13.40	10.94	9.31	8.08	7.37	6.85
45.0	35.11	28.32	22.06	18.38	15.39	12.93	10.94	9.01	7.90
67.5	31.84	23.35	17.44	13.17	11.18	9.83	8.60	7.96	7.32
90.0	14.40	11.65	10.18	9.07	8.37	7.78	7.26	6.67	6.26
112.5	26.45	19.61	14.92	11.70	10.18	9.13	8.37	7.55	7.14
135.0	24.29	19.84	16.50	13.46	11.53	9.89	8.66	7.55	6.91
157.5	21.36	14.98	11.94	10.07	8.66	7.84	7.14	6.67	6.32
180.0	12.82	10.53	8.95	8.25	7.67	7.08	6.67	6.14	5.79
202.5	13.87	11.06	9.42	8.25	7.55	6.96	6.50	6.20	5.85
225.0	30.67	23.70	19.72	16.56	14.10	11.65	9.95	8.72	7.49
247.5	17.79	14.16	11.47	10.12	9.13	8.19	7.61	7.02	6.61
270.0	18.84	13.40	11.35	10.12	9.01	8.37	7.78	7.32	6.73
292.5	20.89	15.39	12.64	10.48	9.36	8.49	7.78	7.20	6.79
315.0	39.39	32.30	26.57	21.95	17.73	14.98	12.64	10.71	8.90
337.5	21.13	16.04	12.06	10.12	8.60	7.84	7.20	6.61	6.26
360.0	16.09	12.35	10.42	8.95	8.25	7.43	7.02	6.61	6.26

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	5.85	5.50	5.27	5.09	4.86	4.74	4.68	4.62	4.56
22.5	6.44	6.14	5.85	5.56	5.27	5.09	4.92	4.74	4.68
45.0	7.08	6.55	6.03	5.74	5.56	5.38	5.21	5.03	4.92
67.5	6.85	6.44	6.09	5.68	5.33	5.09	4.92	4.68	4.56
90.0	5.79	5.38	5.09	4.86	4.68	4.56	4.51	4.51	4.51
112.5	6.67	6.32	5.91	5.62	5.27	5.03	4.86	4.62	4.56
135.0	6.44	6.03	5.79	5.56	5.33	5.21	5.09	4.92	4.74
157.5	5.91	5.68	5.33	5.15	4.97	4.80	4.68	4.62	4.56
180.0	5.50	5.27	5.03	4.86	4.74	4.62	4.62	4.56	4.56
202.5	5.56	5.38	5.09	4.92	4.86	4.68	4.56	4.56	4.56
225.0	6.85	6.32	5.97	5.68	5.44	5.33	5.21	5.03	4.86
247.5	6.20	5.85	5.38	5.09	4.86	4.74	4.62	4.51	4.51
270.0	6.20	5.79	5.38	5.03	4.86	4.68	4.56	4.51	4.51
292.5	6.32	6.03	5.56	5.27	5.03	4.92	4.68	4.56	4.56
315.0	7.78	7.02	6.38	6.03	5.74	5.50	5.33	5.21	4.97
337.5	5.91	5.56	5.33	5.09	4.92	4.80	4.68	4.56	4.56
360.0	5.85	5.50	5.27	5.09	4.86	4.74	4.68	4.62	4.56
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
22.5	4.56	4.56	4.51	4.51	4.51	4.56	4.51	4.51	4.51
45.0	4.80	4.62	4.56	4.56	4.51	4.45	4.51	4.45	4.51
67.5	4.51	4.51	4.51	4.45	4.51	4.45	4.45	4.45	4.51
90.0	4.51	4.51	4.51	4.45	4.51	4.45	4.45	4.45	4.51
112.5	4.51	4.51	4.51	4.51	4.51	4.51	4.45	4.51	4.51
135.0	4.68	4.51	4.51	4.45	4.51	4.51	4.45	4.45	4.45
157.5	4.51	4.51	4.45	4.51	4.51	4.51	4.51	4.51	4.51
180.0	4.56	4.56	4.56	4.56	4.51	4.56	4.56	4.56	4.56
202.5	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.56
225.0	4.74	4.62	4.56	4.51	4.45	4.51	4.51	4.51	4.51
247.5	4.51	4.45	4.45	4.45	4.45	4.45	4.51	4.51	4.51
270.0	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.45
292.5	4.45	4.45	4.39	4.45	4.45	4.45	4.51	4.45	4.51
315.0	4.86	4.74	4.62	4.56	4.51	4.45	4.51	4.51	4.51
337.5	4.51	4.45	4.51	4.51	4.51	4.51	4.45	4.51	4.45
360.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
22.5	4.51	4.56	4.51	4.51	4.51	4.51	4.51	4.51	4.51
45.0	4.51	4.45	4.45	4.45	4.45	4.51	4.45	4.45	4.51
67.5	4.45	4.51	4.45	4.45	4.45	4.45	4.45	4.51	4.45
90.0	4.51	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
112.5	4.45	4.45	4.45	4.51	4.45	4.45	4.45	4.45	4.45
135.0	4.45	4.45	4.45	4.45	4.45	4.51	4.51	4.45	4.45
157.5	4.51	4.51	4.51	4.45	4.45	4.51	4.51	4.51	4.51
180.0	4.51	4.51	4.51	4.56	4.51	4.51	4.51	4.51	4.51
202.5	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.45
225.0	4.51	4.51	4.51	4.45	4.45	4.51	4.45	4.51	4.51
247.5	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
270.0	4.51	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.51
292.5	4.45	4.45	4.45	4.51	4.45	4.39	4.45	4.45	4.45
315.0	4.51	4.51	4.45	4.45	4.51	4.45	4.45	4.45	4.51
337.5	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
360.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56

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	4.56	4.56	4.56	4.51	4.56	4.56	4.56	4.56	4.56
22.5	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.45
45.0	4.51	4.45	4.51	4.51	4.51	4.51	4.51	4.51	4.51
67.5	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
90.0	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
112.5	4.45	4.45	4.45	4.45	4.45	4.51	4.45	4.45	4.45
135.0	4.45	4.51	4.45	4.51	4.51	4.51	4.51	4.51	4.51
157.5	4.51	4.51	4.51	4.45	4.45	4.51	4.45	4.51	4.51
180.0	4.51	4.56	4.51	4.51	4.51	4.51	4.51	4.51	4.51
202.5	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51
225.0	4.45	4.45	4.45	4.51	4.51	4.51	4.45	4.51	4.51
247.5	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
270.0	4.45	4.45	4.51	4.45	4.45	4.45	4.45	4.51	4.45
292.5	4.39	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
315.0	4.51	4.51	4.45	4.45	4.45	4.45	4.45	4.45	4.45
337.5	4.51	4.45	4.45	4.45	4.51	4.45	4.45	4.51	4.45
360.0	4.56	4.56	4.56	4.51	4.56	4.56	4.56	4.56	4.56

C/γ(°)	90.0
0.0	4.51
22.5	4.51
45.0	4.51
67.5	4.45
90.0	4.45
112.5	4.45
135.0	4.45
157.5	4.51
180.0	4.51
202.5	4.51
225.0	4.51
247.5	4.45
270.0	4.45
292.5	4.45
315.0	4.45
337.5	4.45
360.0	4.51