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Nata

Client: NT
LumCAT: 69-0020 & 11-0161-S5-MS
Luminaire: L280*W40*20(matt silver)
Report No: 20241119-B005
Ballast type: AC

Test No: 20241119-C005	Voltage(V): 23.740
LampCAT: CREE JE2835B_N×2	Current(A): 0.453
Lamp flux(lm): 1205.1	Power (W): 10.754
Number of Lamps: 1	PF: 0.000
Length(mm): 280	Width(mm): 40
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 1133.26, Efficiency(%): 94.04% , Luminous Efficacy(lm/W): 105.38
Central intensity(cd): 1223.179, Maximum intensity(cd): 1223.179
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=61.2
[C90/270]Total=62.8
Field angle(10%Imax): [C0/180]Total=79.0
[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=0.89 C90_270=0.91
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.14%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.591%

Equipment: GMS1980	Date: 2024/11/19	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1214.766	0.000	0	0.00%	0.00%
1.0	1214.583	1.162	1.162	0.10%	0.10%
2.0	1213.449	3.485	4.647	0.29%	0.41%
3.0	1211.913	5.801	10.448	0.48%	0.92%
4.0	1209.609	8.106	18.554	0.67%	1.64%
5.0	1206.171	10.393	28.946	0.86%	2.55%
6.0	1202.769	12.660	41.606	1.05%	3.67%
7.0	1198.782	14.906	56.512	1.24%	4.99%
8.0	1196.002	17.139	73.651	1.42%	6.50%
9.0	1187.743	19.319	92.97	1.60%	8.20%
10.0	1182.422	21.449	114.419	1.78%	10.10%
11.0	1175.604	23.562	137.981	1.96%	12.18%
12.0	1166.478	25.602	163.583	2.12%	14.43%
13.0	1159.737	27.606	191.189	2.29%	16.87%
14.0	1151.434	29.583	220.772	2.45%	19.48%
15.0	1141.723	31.481	252.254	2.61%	22.26%
16.0	1130.775	33.298	285.552	2.76%	25.20%
17.0	1118.010	35.020	320.572	2.91%	28.29%
18.0	1104.865	36.650	357.222	3.04%	31.52%
19.0	1088.643	38.163	395.385	3.17%	34.89%
20.0	1069.232	39.495	434.88	3.28%	38.37%
21.0	1047.959	40.654	475.534	3.37%	41.96%
22.0	1023.127	41.619	517.153	3.45%	45.63%
23.0	992.472	42.293	559.446	3.51%	49.37%
24.0	958.379	42.653	602.099	3.54%	53.13%
25.0	919.959	42.709	644.808	3.54%	56.90%
26.0	877.139	42.421	687.229	3.52%	60.64%
27.0	827.965	41.716	728.945	3.46%	64.32%
28.0	775.719	40.602	769.546	3.37%	67.91%
29.0	723.199	39.216	808.762	3.25%	71.37%
30.0	666.158	37.512	846.275	3.11%	74.68%
31.0	604.347	35.356	881.631	2.93%	77.80%
32.0	543.246	32.877	914.508	2.73%	80.70%
33.0	482.672	30.224	944.732	2.51%	83.36%
34.0	423.279	27.417	972.149	2.28%	85.78%
35.0	363.428	24.432	996.581	2.03%	87.94%
36.0	311.087	21.477	1018.058	1.78%	89.83%
37.0	266.062	18.823	1036.881	1.56%	91.50%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	231.427	16.606	1053.487	1.38%	92.96%
39.0	175.169	13.878	1067.365	1.15%	94.19%
40.0	126.281	10.513	1077.878	0.87%	95.11%
41.0	93.921	7.841	1085.72	0.65%	95.80%
42.0	70.132	5.960	1091.68	0.49%	96.33%
43.0	51.642	4.511	1096.191	0.37%	96.73%
44.0	38.980	3.420	1099.611	0.28%	97.03%
45.0	29.755	2.642	1102.253	0.22%	97.26%
46.0	24.133	2.107	1104.36	0.17%	97.45%
47.0	20.205	1.763	1106.124	0.15%	97.61%
48.0	17.502	1.524	1107.648	0.13%	97.74%
49.0	15.530	1.356	1109.005	0.11%	97.86%
50.0	13.906	1.227	1110.232	0.10%	97.97%
51.0	12.615	1.122	1111.354	0.09%	98.07%
52.0	11.481	1.034	1112.388	0.09%	98.16%
53.0	10.508	0.957	1113.344	0.08%	98.24%
54.0	9.660	0.889	1114.233	0.07%	98.32%
55.0	8.903	0.829	1115.062	0.07%	98.39%
56.0	8.219	0.774	1115.836	0.06%	98.46%
57.0	7.612	0.724	1116.56	0.06%	98.53%
58.0	7.059	0.678	1117.238	0.06%	98.59%
59.0	6.565	0.637	1117.875	0.05%	98.64%
60.0	6.101	0.598	1118.473	0.05%	98.69%
61.0	5.702	0.563	1119.037	0.05%	98.74%
62.0	5.362	0.533	1119.57	0.04%	98.79%
63.0	5.088	0.508	1120.078	0.04%	98.84%
64.0	4.923	0.491	1120.569	0.04%	98.88%
65.0	4.810	0.482	1121.051	0.04%	98.92%
66.0	4.729	0.476	1121.527	0.04%	98.96%
67.0	4.682	0.473	1122	0.04%	99.01%
68.0	4.671	0.474	1122.474	0.04%	99.05%
69.0	4.645	0.475	1122.949	0.04%	99.09%
70.0	4.631	0.476	1123.425	0.04%	99.13%
71.0	4.631	0.479	1123.904	0.04%	99.17%
72.0	4.609	0.480	1124.385	0.04%	99.22%
73.0	4.609	0.482	1124.867	0.04%	99.26%
74.0	4.590	0.484	1125.35	0.04%	99.30%
75.0	4.590	0.485	1125.835	0.04%	99.34%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.579	0.487	1126.322	0.04%	99.39%
77.0	4.576	0.488	1126.81	0.04%	99.43%
78.0	4.572	0.490	1127.3	0.04%	99.47%
79.0	4.572	0.491	1127.791	0.04%	99.52%
80.0	4.579	0.493	1128.284	0.04%	99.56%
81.0	4.565	0.495	1128.779	0.04%	99.60%
82.0	4.561	0.495	1129.274	0.04%	99.65%
83.0	4.561	0.496	1129.77	0.04%	99.69%
84.0	4.561	0.497	1130.267	0.04%	99.74%
85.0	4.554	0.497	1130.764	0.04%	99.78%
86.0	4.568	0.499	1131.263	0.04%	99.82%
87.0	4.565	0.500	1131.763	0.04%	99.87%
88.0	4.565	0.500	1132.263	0.04%	99.91%
89.0	4.565	0.500	1132.763	0.04%	99.96%
90.0	4.565	0.501	1133.264	0.04%	100.00%

Zonal flux distribution table

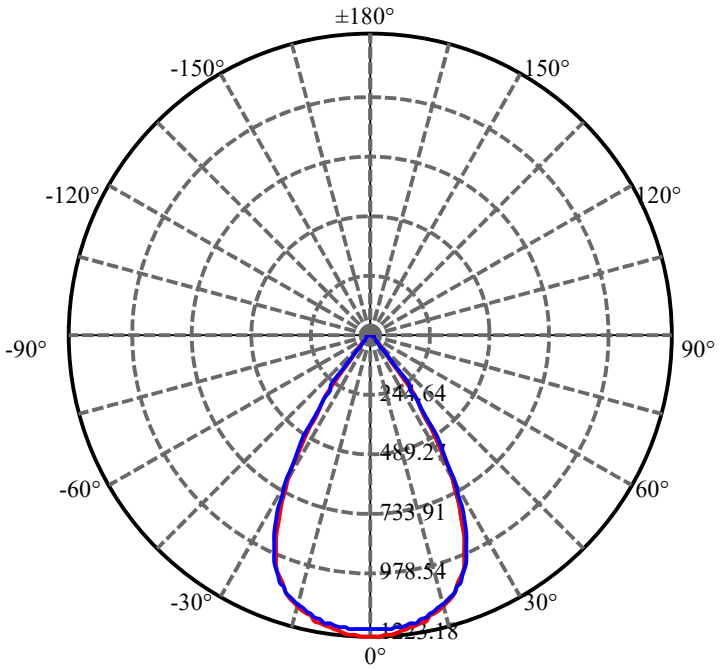
ZONAL LUMEN SUMMARY

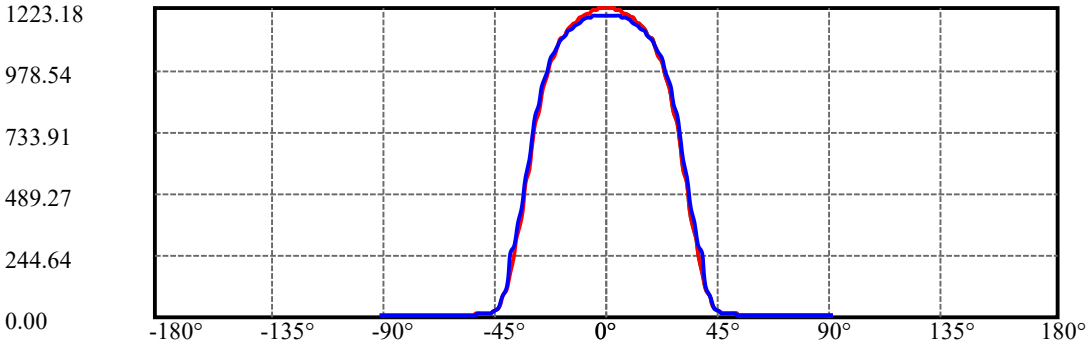
Zone	Lumens	%Lamp	%Fixt
0-30	846.27	70.22%	74.68%
0-40	1077.88	89.44%	95.11%
0-60	1118.47	92.81%	98.69%
0-90	1132.76	94.00%	99.96%
0-120	1132.76	94.00%	99.96%
0-180	1133.26	94.04%	100.00%
60-90	14.29	1.19%	1.26%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.76	906.61	75.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	114.42
10-20	320.46
20-30	411.39
30-40	231.60
40-50	32.35
50-60	8.24
60-70	4.95
70-80	4.86
80-90	4.48
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

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:39.4 Right:39.4
:C90/270Left:39.9 Right:39.9

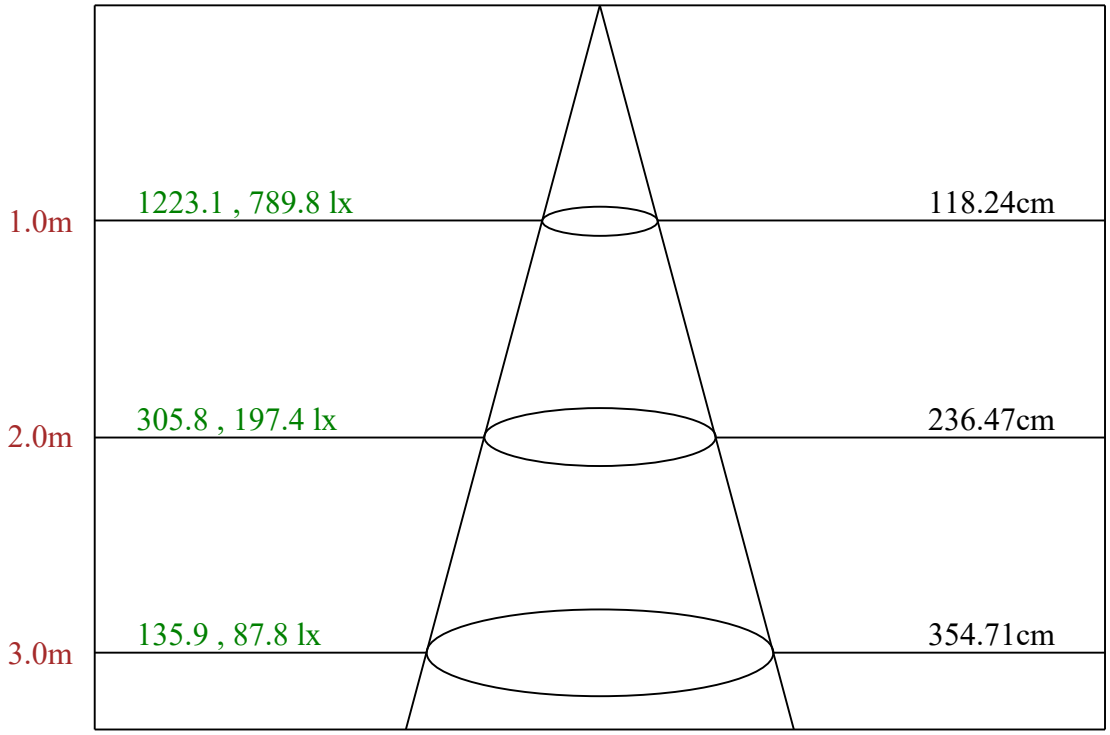
Beam Angle(50%Imax):C0/180Left:30.6 Right:30.6
:C90/270Left:31.4 Right:31.4

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

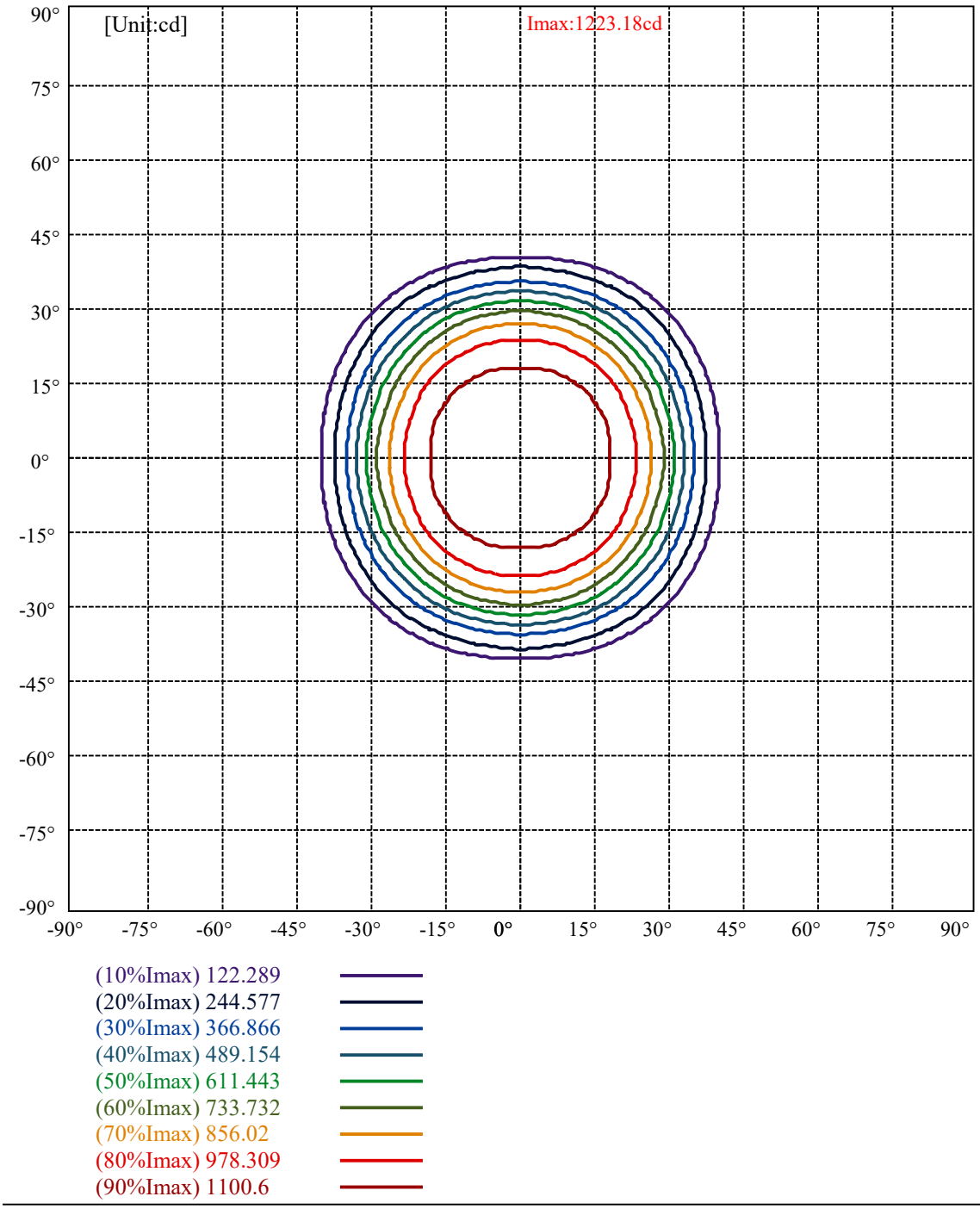
Lux distance Curve



Max , Ave

Beam angle of C0 plane 61.18

ISO-Intensity(V-H)

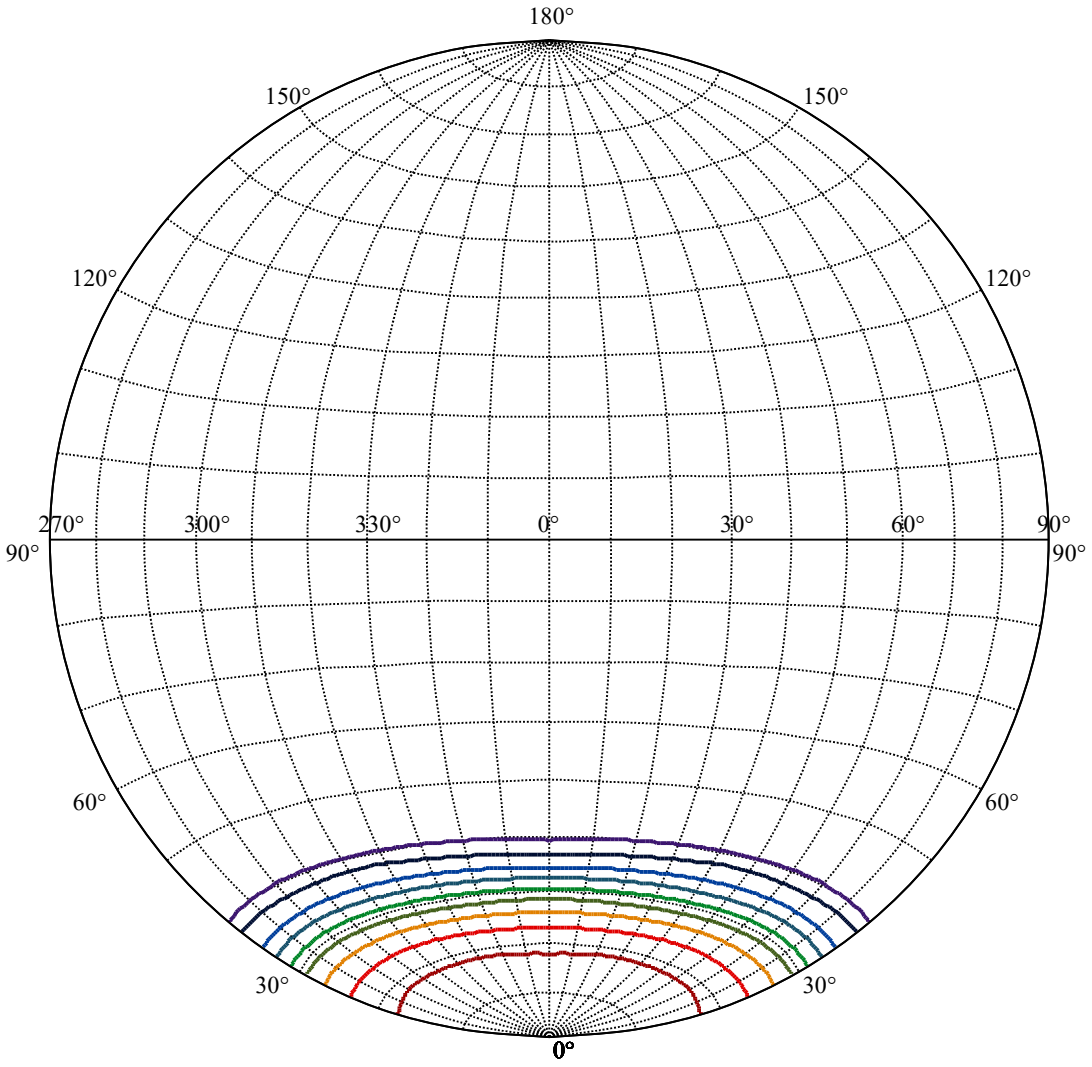


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

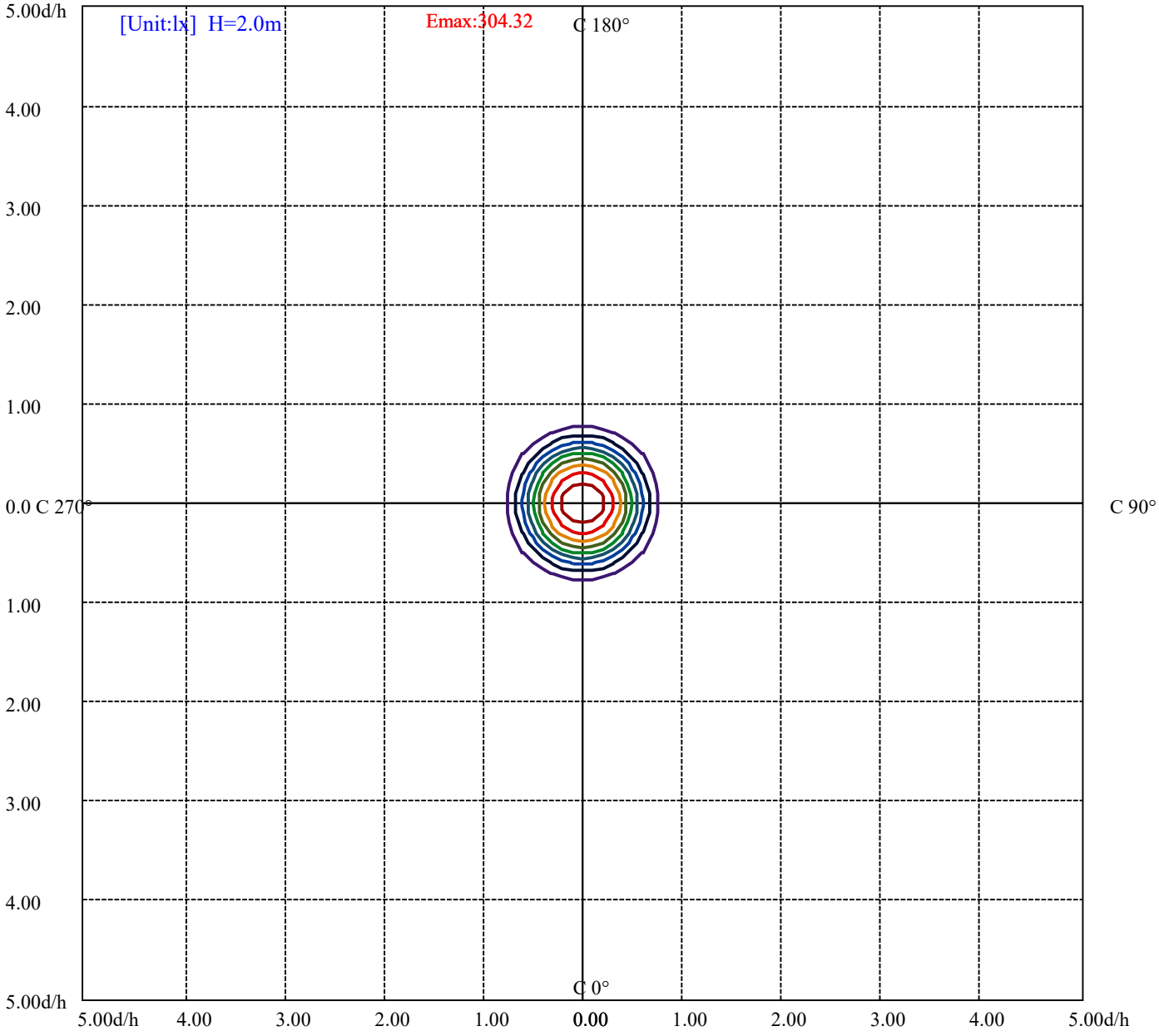
Imax:1223.18

(10%Imax) 122.312
(20%Imax) 244.624
(30%Imax) 366.936
(40%Imax) 489.248
(50%Imax) 611.56
(60%Imax) 733.872
(70%Imax) 856.184
(80%Imax) 978.496
(90%Imax) 1100.81

Equipment: GMS1980 Date: 2024/11/19 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

NT Nata 69-0020 & 11-0161-S5-MS

ISO illuminance diagram



(10%Emax) 30.43175
(20%Emax) 60.86325
(30%Emax) 91.295
(40%Emax) 121.7268
(50%Emax) 152.1582
(60%Emax) 182.59
(70%Emax) 213.0217
(80%Emax) 243.4535
(90%Emax) 273.885

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

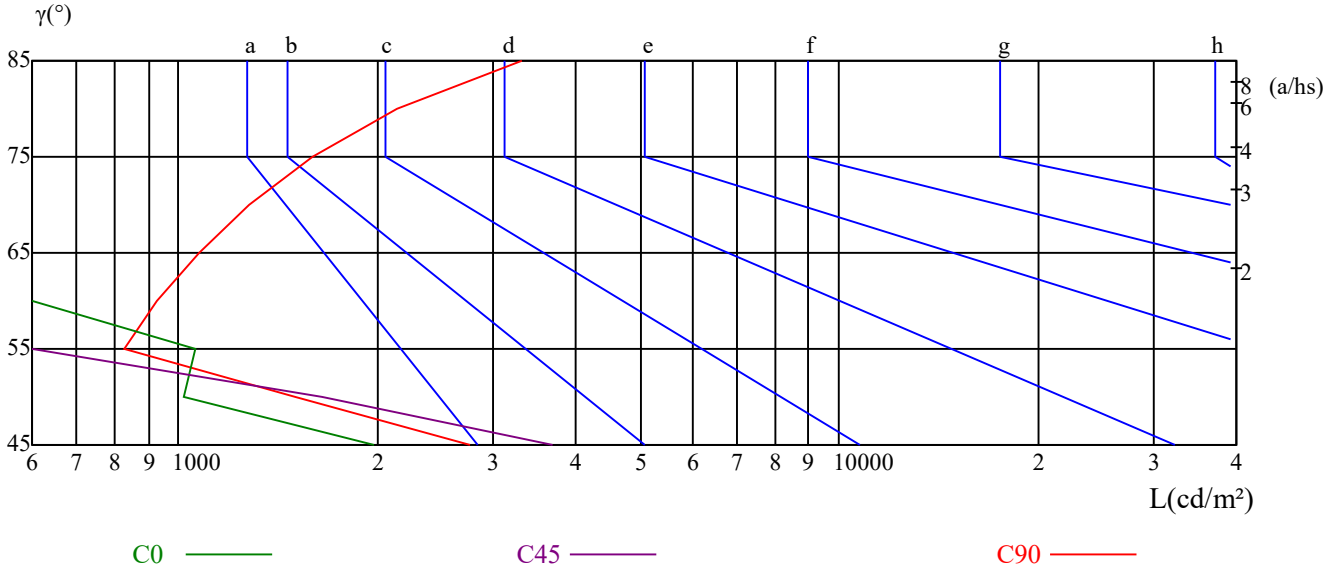
γ	45	50	55	60	65	70	75	80	85
C0	1971	1019	1063	560	597	644	704	616	893
C45	3684	1646	578	615	662	724	805	914	1067
C90	2759	1498	827	930	1072	1277	1594	2142	3301

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	2019	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 Limitting Curve



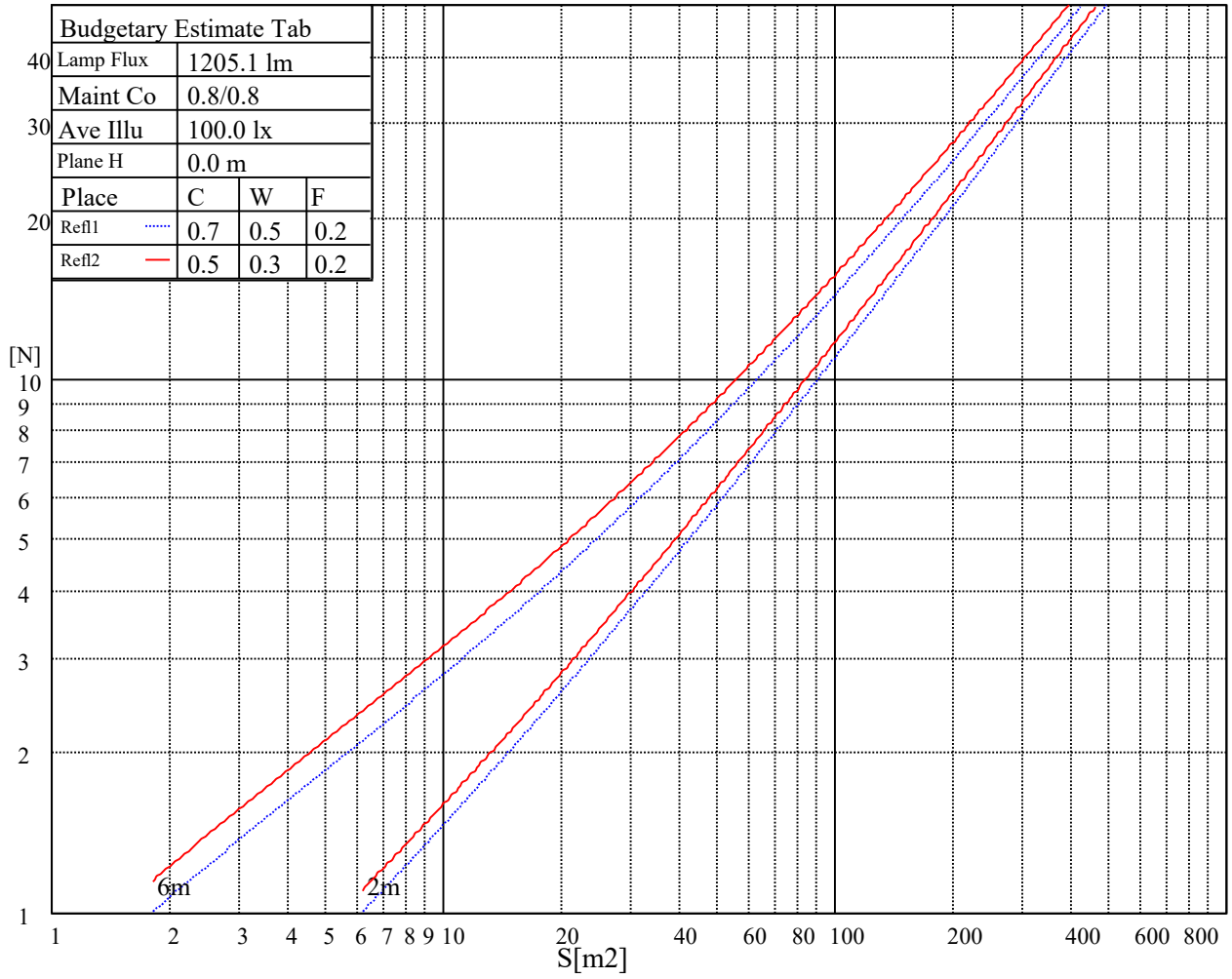
UGR Glare

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	15.50	16.45	15.86	16.76	17.07	15.71	16.66	16.08	16.97	17.29
	3H	15.31	16.15	15.70	16.49	16.84	15.53	16.38	15.92	16.71	17.06
	4H	15.23	16.01	15.63	16.37	16.73	15.46	16.25	15.87	16.60	16.97
	6H	15.19	15.90	15.60	16.28	16.68	15.45	16.16	15.87	16.54	16.94
	8H	15.14	15.82	15.56	16.21	16.62	15.43	16.11	15.86	16.50	16.91
	12H	15.11	15.75	15.54	16.15	16.57	15.45	16.10	15.88	16.49	16.91
4H	2H	15.19	15.97	15.59	16.32	16.69	15.40	16.18	15.80	16.54	16.90
	3H	14.98	15.63	15.40	16.03	16.45	15.20	15.85	15.63	16.25	16.67
	4H	14.94	15.51	15.38	15.93	16.38	15.18	15.75	15.62	16.17	16.62
	6H	14.88	15.38	15.35	15.83	16.29	15.16	15.66	15.64	16.12	16.57
	8H	14.88	15.34	15.37	15.80	16.28	15.21	15.67	15.70	16.13	16.61
	12H	14.90	15.33	15.39	15.78	16.30	15.32	15.74	15.81	16.20	16.72
8H	4H	14.77	15.23	15.26	15.69	16.17	15.01	15.47	15.49	15.93	16.40
	6H	14.73	15.11	15.24	15.59	16.10	15.02	15.40	15.53	15.88	16.39
	8H	14.81	15.13	15.35	15.65	16.15	15.16	15.48	15.70	16.00	16.50
	12H	14.88	15.13	15.43	15.65	16.17	15.35	15.59	15.89	16.11	16.63
12H	4H	14.73	15.15	15.22	15.61	16.13	14.96	15.39	15.45	15.84	16.36
	6H	14.74	15.06	15.28	15.58	16.08	15.03	15.34	15.56	15.87	16.36
	8H	14.80	15.05	15.35	15.56	16.09	15.15	15.39	15.69	15.91	16.44

Variation with the observer position at spacings:		
S = 1.0H	5.6/-9.9	5.6/-10.0
S = 1.5H	8.2/-8.2	8.2/-8.7
S = 2.0H	10.0/-7.0	10.1/-7.6
Standard tables:	BK1	BK0
Uncorrected UGR	-3.5	-4.2

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

Budgetary Estimate Table



Equipment: GMS1980 Date: 2024/11/19 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.12	1.12	1.12	1.09	1.09	1.09	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.04	1.02	0.99	1.02	1.00	0.98	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.90	0.86	0.82	0.89	0.85	0.81	0.87	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.75	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.71
5	0.79	0.74	0.70	0.79	0.73	0.70	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.66
6	0.75	0.69	0.65	0.74	0.69	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.62
7	0.70	0.65	0.61	0.70	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.58
8	0.66	0.61	0.57	0.66	0.60	0.57	0.65	0.60	0.57	0.64	0.59	0.56	0.63	0.59	0.56	0.55
9	0.63	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.52
10	0.59	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	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	1223.18	1224.35	1225.52	1225.52	1224.93	1220.25	1216.16	1210.30	1206.79
22.5	1218.50	1221.42	1222.01	1220.25	1218.50	1217.91	1216.16	1214.99	1212.06
45.0	1222.01	1224.35	1225.52	1224.93	1221.42	1214.99	1209.13	1203.28	1195.09
67.5	1209.13	1209.13	1207.96	1206.79	1206.79	1206.21	1205.62	1203.87	1200.94
90.0	1195.67	1195.67	1195.67	1195.67	1194.50	1194.50	1193.33	1191.58	1189.24
112.5	1210.30	1209.13	1206.21	1203.28	1200.94	1196.84	1193.92	1192.16	1190.99
135.0	1213.82	1213.82	1213.82	1214.40	1213.23	1209.13	1204.45	1199.77	1195.09
157.5	1225.52	1227.28	1227.28	1225.52	1223.18	1218.50	1214.40	1208.55	1202.70
180.0	1223.18	1221.42	1219.67	1216.16	1210.89	1205.04	1199.77	1195.09	1190.41
202.5	1218.50	1214.40	1210.30	1206.79	1204.45	1202.70	1199.18	1195.67	1191.58
225.0	1222.01	1220.25	1219.08	1218.50	1215.57	1212.64	1208.55	1202.11	1196.84
247.5	1209.13	1209.13	1205.62	1203.87	1200.94	1196.84	1192.75	1188.65	1193.33
270.0	1195.67	1194.50	1193.92	1192.16	1189.82	1186.89	1183.97	1181.04	1177.53
292.5	1210.30	1210.30	1207.96	1204.45	1200.35	1194.50	1189.82	1185.14	1193.33
315.0	1213.82	1214.40	1213.82	1212.64	1209.72	1206.79	1203.87	1199.77	1195.67
337.5	1225.52	1223.76	1220.84	1219.67	1218.50	1214.99	1213.23	1208.55	1204.45
360.0	1223.18	1224.35	1225.52	1225.52	1224.93	1220.25	1216.16	1210.30	1206.79

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1201.53	1197.43	1193.33	1167.29	1167.29	1160.62	1146.40	1132.94	1116.61
22.5	1208.55	1203.28	1198.60	1192.75	1189.24	1183.97	1176.36	1168.17	1154.12
45.0	1190.99	1185.14	1167.58	1167.58	1164.42	1160.03	1154.18	1146.92	1136.39
67.5	1196.84	1192.16	1187.48	1180.46	1174.61	1166.41	1159.97	1151.78	1143.59
90.0	1186.31	1166.88	1166.88	1161.26	1153.48	1145.87	1135.75	1128.26	1118.31
112.5	1188.65	1188.07	1186.31	1181.04	1175.19	1168.17	1161.14	1151.78	1142.42
135.0	1192.75	1185.72	1166.12	1166.12	1160.50	1148.80	1137.03	1125.80	1110.00
157.5	1197.43	1190.99	1185.72	1177.53	1169.92	1161.73	1152.95	1141.25	1129.54
180.0	1183.38	1178.12	1171.09	1162.32	1150.61	1143.00	1134.22	1122.52	1107.89
202.5	1167.29	1167.29	1163.25	1154.94	1146.63	1134.34	1121.64	1109.00	1090.45
225.0	1189.82	1182.21	1174.61	1165.83	1157.63	1149.44	1138.91	1124.86	1111.99
247.5	1167.23	1166.18	1159.68	1152.54	1141.83	1133.17	1122.99	1109.53	1093.14
270.0	1174.02	1167.58	1161.14	1155.88	1147.10	1134.81	1124.86	1111.99	1101.45
292.5	1167.76	1166.88	1162.26	1153.07	1145.75	1138.20	1126.03	1113.80	1101.39
315.0	1191.58	1186.89	1177.53	1158.80	1145.34	1137.15	1128.96	1120.76	1111.99
337.5	1199.77	1193.92	1188.07	1166.24	1166.24	1157.22	1146.16	1133.05	1118.89
360.0	1201.53	1197.43	1193.33	1167.29	1167.29	1160.62	1146.40	1132.94	1116.61

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1103.27	1086.82	1067.04	1047.67	1022.10	996.58	962.93	914.36	873.80
22.5	1141.25	1126.62	1108.47	1091.50	1072.19	1047.61	1021.28	981.48	945.78
45.0	1124.80	1109.47	1092.73	1073.36	1046.67	1020.93	990.96	946.37	906.05
67.5	1135.98	1123.69	1112.57	1093.84	1073.95	1051.71	1020.11	987.92	952.80
90.0	1106.37	1090.57	1076.35	1053.23	1029.35	995.64	964.80	931.80	894.11
112.5	1130.71	1116.08	1095.01	1076.29	1056.97	1029.47	1000.21	956.90	920.62
135.0	1096.77	1080.15	1055.39	1033.04	1007.06	966.15	927.46	886.03	839.04
157.5	1119.01	1104.96	1082.14	1059.90	1033.57	1004.30	963.92	924.71	870.87
180.0	1093.84	1069.85	1051.12	1025.96	1000.79	968.61	929.98	891.94	842.20
202.5	1073.48	1051.71	1020.40	991.78	961.52	919.21	880.30	837.11	790.93
225.0	1099.11	1083.31	1061.07	1038.25	1012.50	977.38	943.44	906.57	856.83
247.5	1073.71	1054.58	1038.77	1013.32	981.83	942.62	911.90	877.14	826.05
270.0	1087.99	1073.36	1054.63	1037.08	1016.59	993.77	959.24	928.81	897.21
292.5	1086.47	1063.76	1042.17	1020.22	996.64	962.93	931.74	897.21	850.21
315.0	1105.55	1100.28	1087.41	1072.78	1052.29	1026.54	991.43	957.49	920.62
337.5	1099.52	1083.08	1062.42	1039.13	1006.00	976.10	934.37	893.52	847.11
360.0	1103.27	1086.82	1067.04	1047.67	1022.10	996.58	962.93	914.36	873.80

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	830.20	784.55	724.04	673.59	606.76	549.00	486.85	411.06	352.60
22.5	904.82	846.29	795.38	743.29	675.41	616.89	561.87	490.48	432.54
45.0	847.29	794.62	739.14	682.66	609.86	554.73	501.13	446.47	381.04
67.5	914.77	863.85	818.79	768.46	711.69	638.54	580.60	523.25	450.10
90.0	836.52	788.47	738.26	684.83	613.32	552.39	491.65	429.96	355.99
112.5	880.24	821.71	775.48	724.57	667.80	609.86	534.95	477.02	419.08
135.0	776.54	722.52	666.98	612.91	546.60	492.94	426.34	375.60	325.91
157.5	822.30	771.97	707.01	652.58	595.82	540.81	470.58	415.57	361.14
180.0	795.38	749.73	698.23	626.25	569.48	509.79	431.37	376.36	320.76
202.5	730.07	678.04	623.62	555.96	499.61	443.78	388.76	322.99	272.42
225.0	812.35	750.90	697.65	644.39	591.72	525.59	472.92	420.25	368.17
247.5	779.11	730.65	679.15	610.39	554.62	485.21	429.38	374.37	308.88
270.0	845.12	801.23	753.24	688.28	633.27	559.53	501.60	443.07	385.72
292.5	808.72	749.09	698.06	643.45	572.99	516.40	458.23	401.29	331.76
315.0	876.73	818.79	767.29	711.11	654.34	583.53	528.52	461.22	409.13
337.5	787.30	739.08	688.87	635.79	566.26	512.95	458.00	403.51	339.61
360.0	830.20	784.55	724.04	673.59	606.76	549.00	486.85	411.06	352.60

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	297.18	246.20	190.78	153.33	121.20	92.70	64.26	47.11	34.41
22.5	377.53	311.98	298.52	298.52	174.22	131.85	103.58	80.41	60.80
45.0	331.24	283.01	236.84	182.94	147.24	110.02	85.74	67.36	50.97
67.5	391.57	331.30	304.38	304.38	170.24	126.82	97.56	73.80	54.72
90.0	300.34	248.78	189.44	146.48	102.82	74.32	52.26	37.10	25.22
112.5	346.51	306.72	306.72	195.99	146.95	113.65	80.70	60.28	44.42
135.0	265.46	219.34	175.33	128.81	100.78	78.36	60.75	44.59	36.17
157.5	310.81	298.52	237.02	157.07	124.01	89.13	66.77	46.35	34.82
180.0	307.30	238.13	164.04	120.21	92.47	68.00	48.52	33.07	24.70
202.5	218.05	178.20	142.62	103.99	78.95	58.87	44.01	30.49	24.11
225.0	306.72	295.01	295.01	171.41	133.72	96.62	74.50	54.66	43.54
247.5	260.48	214.08	172.58	127.40	96.74	72.74	53.96	37.34	28.73
270.0	332.47	307.30	307.30	170.65	131.27	91.82	65.95	46.12	33.65
292.5	281.26	234.15	190.61	143.91	111.25	84.86	59.05	44.24	31.60
315.0	359.97	300.28	300.28	243.40	166.50	124.24	97.44	76.61	60.69
337.5	290.51	243.98	191.37	154.21	122.14	88.72	67.07	46.76	35.11
360.0	297.18	246.20	190.78	153.33	121.20	92.70	64.26	47.11	34.41

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	24.29	19.90	16.97	15.63	14.46	13.28	12.47	11.70	10.94
22.5	42.84	32.30	24.11	19.84	16.85	14.40	13.11	12.11	11.29
45.0	41.55	34.41	28.91	23.64	20.31	17.50	15.10	12.64	11.12
67.5	37.63	28.85	22.94	19.14	16.15	14.51	13.28	12.06	11.29
90.0	20.25	17.32	15.57	14.10	13.17	12.29	11.35	10.59	9.83
112.5	31.25	24.40	19.90	17.15	14.86	13.58	12.47	11.65	10.71
135.0	30.14	25.46	21.07	18.43	16.09	13.69	12.11	10.53	9.60
157.5	26.86	20.72	17.62	15.63	14.22	12.93	12.06	11.29	10.59
180.0	20.19	17.79	15.86	14.75	13.81	12.70	11.94	11.18	10.24
202.5	19.96	16.97	14.75	13.52	12.58	11.59	10.83	10.18	9.48
225.0	35.52	28.56	24.40	21.07	17.73	15.51	13.58	12.00	10.36
247.5	23.12	18.61	16.44	14.51	13.34	12.41	11.47	10.53	9.77
270.0	23.70	19.55	16.68	15.27	14.16	13.05	12.17	11.29	10.24
292.5	24.87	20.48	17.62	15.27	13.87	12.76	11.76	10.77	10.01
315.0	46.47	38.62	32.60	26.45	22.77	19.61	16.39	14.16	12.29
337.5	27.45	22.18	17.85	15.63	14.10	12.70	11.76	11.00	10.36
360.0	24.29	19.90	16.97	15.63	14.46	13.28	12.47	11.70	10.94

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	10.24	9.31	8.60	7.96	7.37	6.61	6.09	5.56	5.21
22.5	10.42	9.83	9.31	8.78	8.13	7.61	7.14	6.73	6.20
45.0	9.89	8.72	8.08	7.43	6.85	6.44	6.03	5.74	5.50
67.5	10.42	9.77	9.19	8.54	7.84	7.32	6.79	6.32	5.74
90.0	8.90	8.19	7.37	6.85	6.32	5.97	5.44	5.03	4.92
112.5	10.12	9.48	8.72	8.19	7.49	7.02	6.50	6.09	5.50
135.0	8.78	8.08	7.37	6.91	6.50	6.14	5.79	5.50	5.33
157.5	9.83	9.19	8.72	7.96	7.49	6.96	6.44	5.97	5.50
180.0	9.48	8.66	7.96	7.37	6.79	6.14	5.68	5.27	5.03
202.5	8.95	8.37	7.72	7.20	6.79	6.38	5.85	5.44	5.15
225.0	9.36	8.54	7.90	7.20	6.73	6.32	5.91	5.62	5.33
247.5	9.13	8.49	7.72	7.14	6.67	6.20	5.68	5.33	5.09
270.0	9.42	8.60	7.84	7.20	6.55	6.09	5.74	5.33	5.03
292.5	9.36	8.78	8.02	7.43	6.96	6.38	5.97	5.50	5.21
315.0	10.53	9.42	8.54	7.90	7.20	6.73	6.32	5.97	5.62
337.5	9.71	9.01	8.43	7.72	7.26	6.73	6.26	5.85	5.44
360.0	10.24	9.31	8.60	7.96	7.37	6.61	6.09	5.56	5.21

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.97	4.86	4.74	4.74	4.68	4.68	4.68	4.68	4.68
22.5	5.74	5.33	5.03	4.86	4.80	4.74	4.68	4.62	4.68
45.0	5.27	5.03	4.86	4.74	4.68	4.62	4.62	4.62	4.62
67.5	5.33	5.03	4.86	4.74	4.74	4.68	4.62	4.62	4.62
90.0	4.80	4.80	4.74	4.68	4.62	4.62	4.62	4.62	4.62
112.5	5.15	4.97	4.86	4.74	4.68	4.68	4.62	4.62	4.62
135.0	5.03	4.92	4.74	4.68	4.68	4.68	4.68	4.62	4.62
157.5	5.15	4.97	4.80	4.80	4.74	4.68	4.68	4.62	4.62
180.0	4.86	4.80	4.80	4.74	4.62	4.68	4.68	4.68	4.68
202.5	4.92	4.80	4.74	4.68	4.62	4.68	4.62	4.68	4.62
225.0	5.09	4.92	4.86	4.68	4.68	4.62	4.62	4.62	4.62
247.5	4.86	4.74	4.68	4.62	4.62	4.62	4.62	4.56	4.56
270.0	4.86	4.80	4.74	4.68	4.68	4.68	4.62	4.62	4.62
292.5	4.97	4.80	4.74	4.74	4.68	4.68	4.62	4.62	4.62
315.0	5.33	5.15	4.97	4.80	4.68	4.68	4.68	4.62	4.62
337.5	5.09	4.86	4.80	4.74	4.68	4.68	4.62	4.62	4.62
360.0	4.97	4.86	4.74	4.74	4.68	4.68	4.68	4.68	4.68

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
22.5	4.62	4.62	4.62	4.62	4.56	4.62	4.62	4.56	4.56
45.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
67.5	4.56	4.62	4.56	4.56	4.56	4.56	4.56	4.56	4.56
90.0	4.62	4.62	4.62	4.62	4.56	4.56	4.56	4.56	4.56
112.5	4.62	4.62	4.56	4.56	4.56	4.56	4.56	4.56	4.56
135.0	4.62	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
157.5	4.62	4.62	4.62	4.56	4.62	4.62	4.56	4.56	4.62
180.0	4.62	4.62	4.62	4.62	4.56	4.62	4.56	4.62	4.56
202.5	4.62	4.56	4.56	4.62	4.56	4.56	4.56	4.56	4.62
225.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
247.5	4.56	4.62	4.56	4.56	4.56	4.51	4.51	4.56	4.56
270.0	4.62	4.62	4.62	4.56	4.62	4.56	4.56	4.56	4.62
292.5	4.62	4.62	4.56	4.56	4.62	4.56	4.56	4.56	4.56
315.0	4.62	4.62	4.56	4.62	4.56	4.56	4.62	4.56	4.56
337.5	4.62	4.62	4.62	4.62	4.56	4.56	4.56	4.56	4.56
360.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62

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	4.56	4.56	4.56	4.56	4.56	4.56
22.5	4.56	4.56	4.56	4.56	4.51	4.56	4.56	4.56	4.56
45.0	4.56	4.56	4.56	4.56	4.62	4.62	4.56	4.56	4.56
67.5	4.56	4.56	4.56	4.51	4.56	4.56	4.56	4.56	4.56
90.0	4.56	4.56	4.56	4.56	4.51	4.51	4.51	4.56	4.51
112.5	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
135.0	4.56	4.56	4.56	4.56	4.56	4.62	4.62	4.62	4.62
157.5	4.56	4.56	4.56	4.56	4.56	4.56	4.62	4.56	4.56
180.0	4.62	4.56	4.62	4.56	4.56	4.62	4.56	4.56	4.62
202.5	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
225.0	4.56	4.56	4.51	4.56	4.51	4.51	4.56	4.56	4.56
247.5	4.51	4.51	4.56	4.56	4.56	4.56	4.56	4.51	4.51
270.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
292.5	4.56	4.56	4.51	4.56	4.51	4.56	4.56	4.56	4.56
315.0	4.56	4.56	4.56	4.56	4.56	4.56	4.51	4.56	4.56
337.5	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
360.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56

C/γ(°)	90.0
0.0	4.56
22.5	4.56
45.0	4.56
67.5	4.62
90.0	4.56
112.5	4.56
135.0	4.56
157.5	4.56
180.0	4.56
202.5	4.56
225.0	4.56
247.5	4.56
270.0	4.56
292.5	4.51
315.0	4.56
337.5	4.56
360.0	4.56