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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 1-0807-S
Luminaire: 92.70.208.00
Report No: 200609-B009
Test No: 200609-C009
LampCAT: OSRAM 5050
Lamp flux(lm): 505.3
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 25.8000
Current(A): 0.1810
Power (W): 4.6700
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 273.35
Efficiency(%): 54.10%
Lumens(lm)/Power(W): 58.53
Central intensity(cd): 101.475
Maximum intensity(cd): 313.650
Angle of maximum intensity: C=90.0 γ=33.0
Beam Angle(50%Imax): [C0/180]Total=67.6
[C90/270]Total=50.5
Field angle(10%Imax): [C0/180]Total=87.1
[C90/270]Total=67.8
Maximum s/h(1/2): C0_180=1.02 C90_270=2.37
Maximum s/h(1/4): C0_180=0.96 C90_270=1.97
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 54.10%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.814%

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2020/6/9
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	102.621	0.000	0	.000%	.000%
1.0	102.589	0.098	0.098	.019%	.036%
2.0	103.011	0.295	0.393	.058%	.144%
3.0	103.504	0.494	0.887	.098%	.325%
4.0	103.922	0.694	1.582	.137%	.579%
5.0	103.388	0.892	2.473	.177%	.905%
6.0	103.148	1.085	3.559	.215%	1.302%
7.0	103.433	1.282	4.841	.254%	1.771%
8.0	104.745	1.490	6.331	.295%	2.316%
9.0	105.894	1.707	8.038	.338%	2.941%
10.0	107.100	1.928	9.966	.381%	3.646%
11.0	108.439	2.154	12.119	.426%	4.434%
12.0	109.765	2.385	14.504	.472%	5.306%
13.0	111.154	2.622	17.126	.519%	6.265%
14.0	112.198	2.859	19.985	.566%	7.311%
15.0	113.052	3.092	23.077	.612%	8.442%
16.0	113.850	3.325	26.402	.658%	9.659%
17.0	114.852	3.562	29.964	.705%	10.962%
18.0	115.668	3.801	33.764	.752%	12.352%
19.0	116.599	4.041	37.805	.800%	13.830%
20.0	117.570	4.286	42.091	.848%	15.398%
21.0	118.318	4.530	46.621	.896%	17.055%
22.0	119.043	4.770	51.391	.944%	18.800%
23.0	119.704	5.010	56.4	.991%	20.633%
24.0	120.241	5.246	61.646	1.038%	22.552%
25.0	120.691	5.478	67.125	1.084%	24.556%
26.0	121.025	5.706	72.83	1.129%	26.643%
27.0	121.219	5.927	78.757	1.173%	28.811%
28.0	121.279	6.140	84.896	1.215%	31.057%
29.0	121.356	6.348	91.244	1.256%	33.380%
30.0	121.257	6.551	97.795	1.296%	35.776%
31.0	120.983	6.741	104.536	1.334%	38.242%
32.0	120.234	6.911	111.447	1.368%	40.770%
33.0	119.187	7.053	118.5	1.396%	43.351%
34.0	117.661	7.168	125.668	1.419%	45.973%
35.0	115.590	7.244	132.912	1.434%	48.623%
36.0	113.491	7.294	140.206	1.444%	51.291%
37.0	111.076	7.324	147.53	1.450%	53.970%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	108.000	7.312	154.842	1.447%	56.645%
39.0	104.186	7.242	162.085	1.433%	59.295%
40.0	100.090	7.124	169.209	1.410%	61.901%
41.0	95.991	6.982	176.192	1.382%	64.456%
42.0	91.772	6.822	183.013	1.350%	66.951%
43.0	87.922	6.656	189.67	1.317%	69.386%
44.0	84.104	6.493	196.163	1.285%	71.761%
45.0	79.685	6.295	202.457	1.246%	74.064%
46.0	74.992	6.049	208.506	1.197%	76.277%
47.0	70.861	5.801	214.307	1.148%	78.399%
48.0	67.039	5.575	219.882	1.103%	80.439%
49.0	63.011	5.341	225.222	1.057%	82.392%
50.0	58.496	5.066	230.288	1.003%	84.246%
51.0	54.643	4.787	235.075	.947%	85.997%
52.0	50.857	4.527	239.602	.896%	87.653%
53.0	47.282	4.269	243.871	.845%	89.215%
54.0	42.413	3.953	247.825	.782%	90.661%
55.0	36.854	3.538	251.363	.700%	91.955%
56.0	30.969	3.065	254.428	.607%	93.076%
57.0	24.490	2.536	256.964	.502%	94.004%
58.0	19.979	2.056	259.02	.407%	94.756%
59.0	14.446	1.609	260.629	.319%	95.345%
60.0	12.677	1.281	261.911	.254%	95.814%
61.0	11.338	1.146	263.057	.227%	96.233%
62.0	10.157	1.036	264.092	.205%	96.612%
63.0	9.130	0.938	265.031	.186%	96.955%
64.0	8.033	0.842	265.873	.167%	97.263%
65.0	7.168	0.752	266.625	.149%	97.539%
66.0	6.427	0.678	267.303	.134%	97.787%
67.0	5.730	0.611	267.915	.121%	98.010%
68.0	5.070	0.547	268.462	.108%	98.210%
69.0	4.542	0.490	268.952	.097%	98.390%
70.0	4.032	0.440	269.392	.087%	98.551%
71.0	3.586	0.394	269.786	.078%	98.695%
72.0	3.210	0.353	270.14	.070%	98.824%
73.0	2.911	0.320	270.46	.063%	98.941%
74.0	2.640	0.292	270.751	.058%	99.048%
75.0	2.373	0.265	271.016	.052%	99.145%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.183	0.242	271.258	.048%	99.233%
77.0	2.018	0.224	271.482	.044%	99.315%
78.0	1.860	0.208	271.69	.041%	99.391%
79.0	1.723	0.192	271.882	.038%	99.462%
80.0	1.596	0.179	272.061	.035%	99.527%
81.0	1.508	0.168	272.229	.033%	99.589%
82.0	1.420	0.159	272.388	.031%	99.647%
83.0	1.294	0.148	272.535	.029%	99.701%
84.0	1.220	0.137	272.672	.027%	99.751%
85.0	1.167	0.130	272.803	.026%	99.798%
86.0	1.220	0.130	272.933	.026%	99.846%
87.0	0.963	0.119	273.053	.024%	99.890%
88.0	0.928	0.104	273.156	.021%	99.928%
89.0	0.893	0.100	273.256	.020%	99.964%
90.0	0.886	0.098	273.354	.019%	100.000%

Zonal flux distribution table

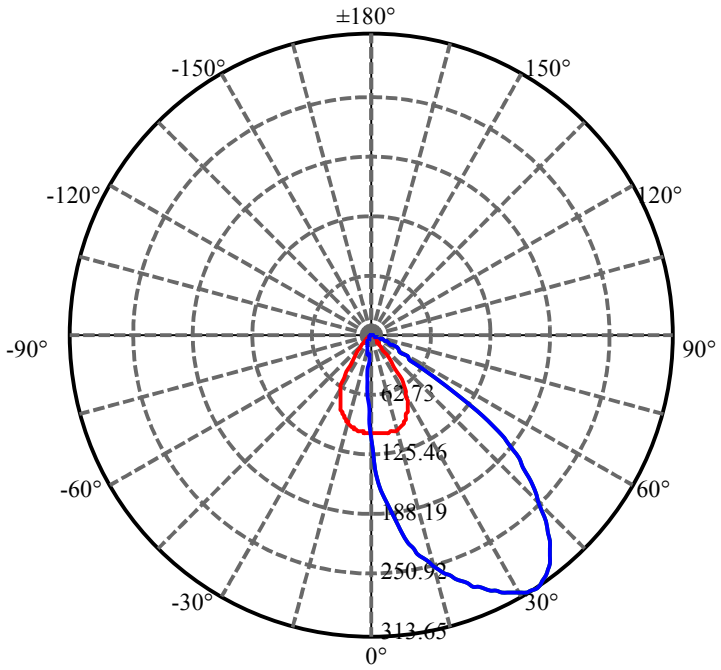
ZONAL LUMEN SUMMARY

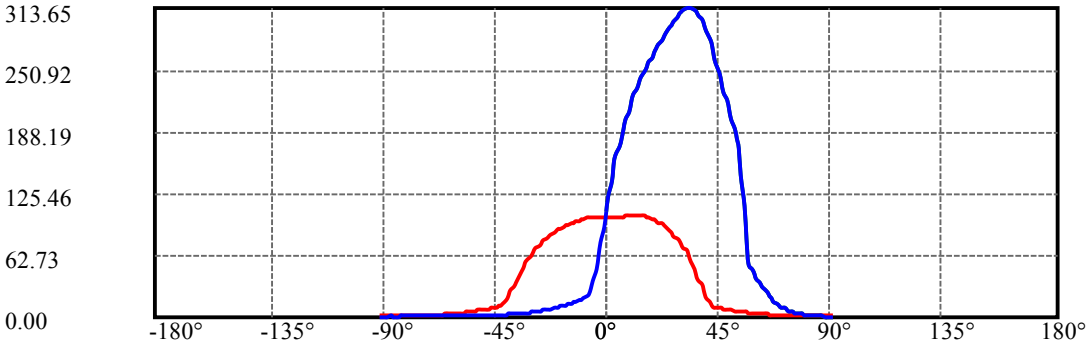
Zone	Lumens	%Lamp	%Fixt
0-30	97.79	19.36%	35.78%
0-40	169.21	33.49%	61.90%
0-60	261.91	51.84%	95.81%
0-90	273.26	54.08%	99.96%
0-120	273.26	54.08%	99.96%
0-180	273.35	54.10%	100.00%
60-90	12.63	2.50%	4.62%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-47.78	218.68	43.28%	80.00%

ZONAL LUMEN SUMMARY

0-10	9.97
10-20	32.13
20-30	55.70
30-40	71.41
40-50	61.08
50-60	31.62
60-70	7.48
70-80	2.67
80-90	1.19
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]





C90(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:55.8 Right:31.3

:C90/270Left:38.7 Right:29.1

Beam Angle(50%Imax):C0/180Left:45.0 Right:22.6

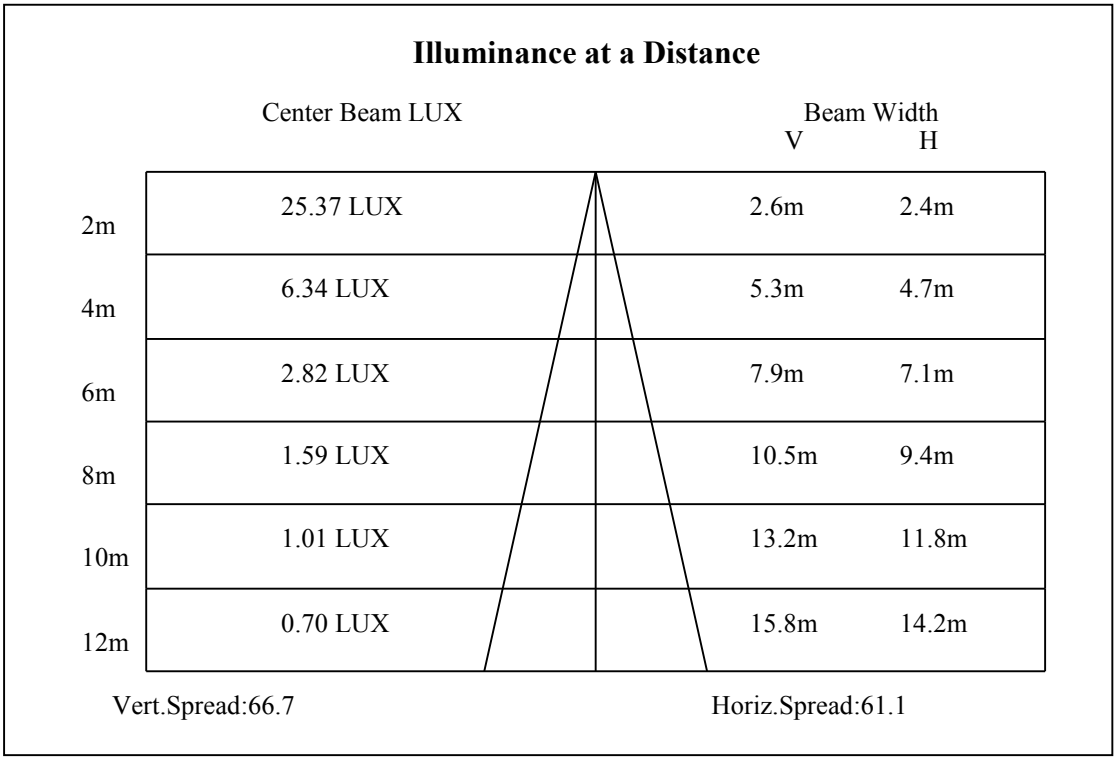
:C90/270Left:30.0 Right:20.5

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/6/9
Humidity(%): 65.0%

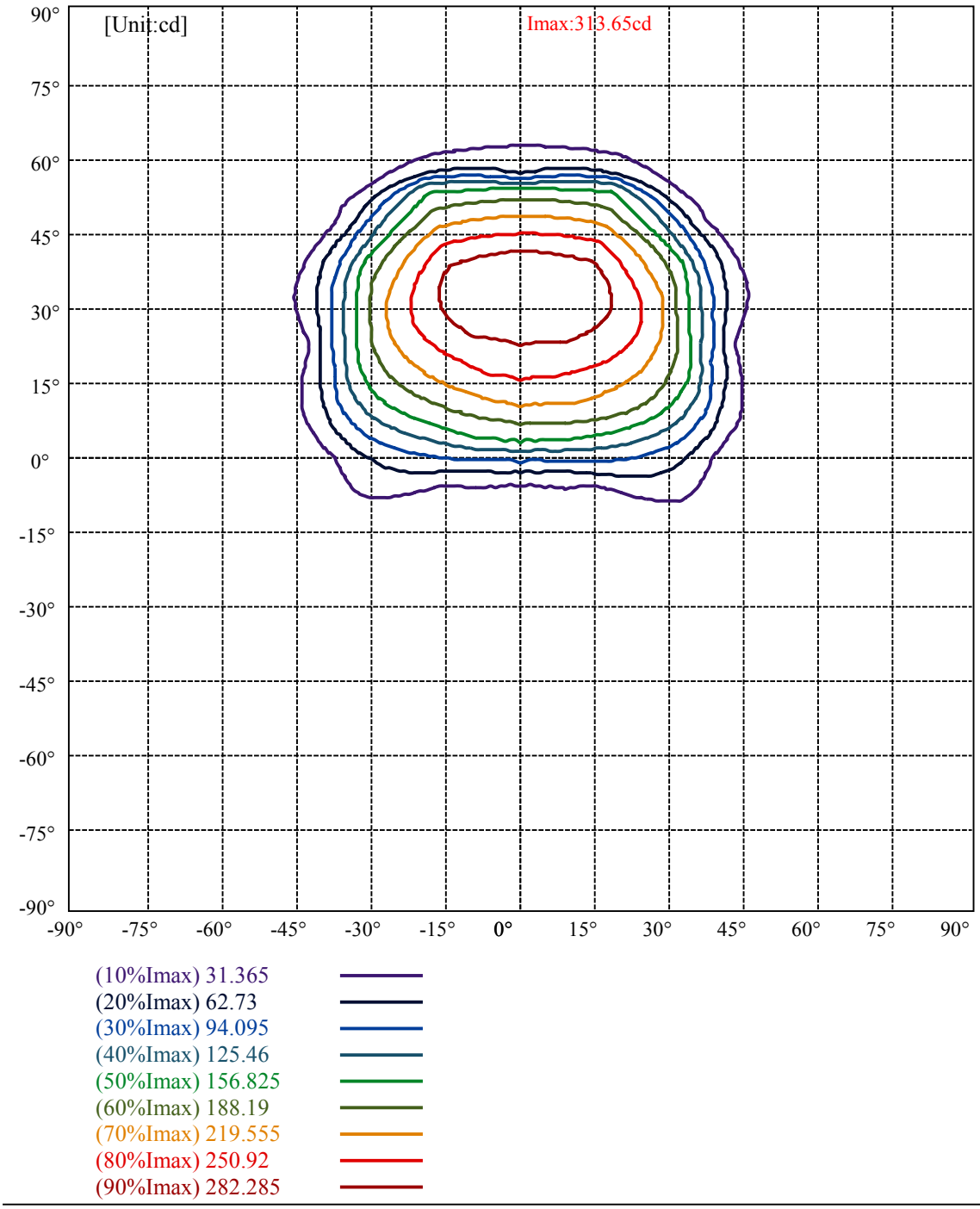
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2020/6/9 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

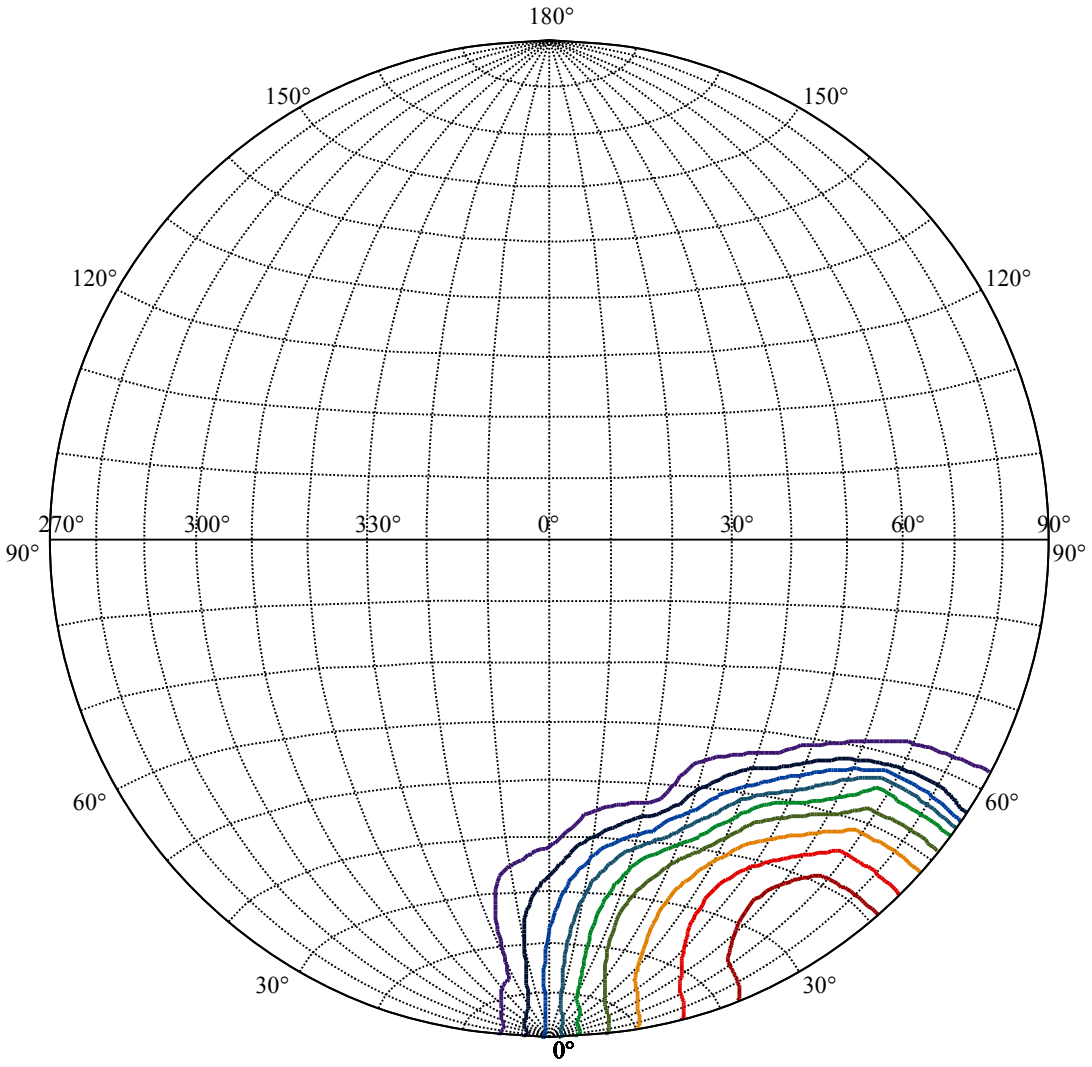


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/6/9
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:313.65

(10%Imax) 31.365
(20%Imax) 62.73
(30%Imax) 94.095
(40%Imax) 125.46
(50%Imax) 156.825
(60%Imax) 188.19
(70%Imax) 219.555
(80%Imax) 250.92
(90%Imax) 282.285

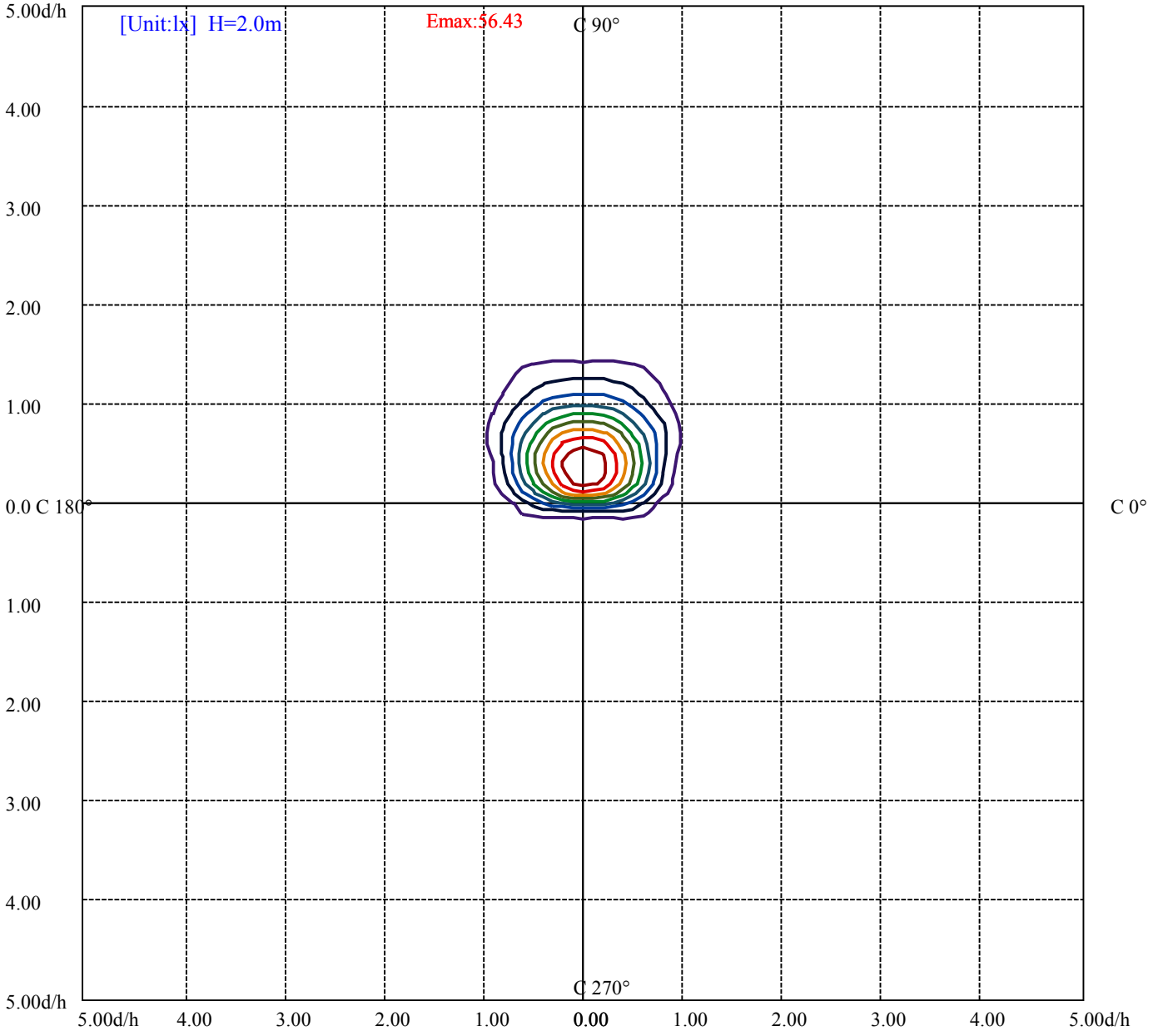
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/6/9
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Nata 1-0807-S

ISO illuminance diagram

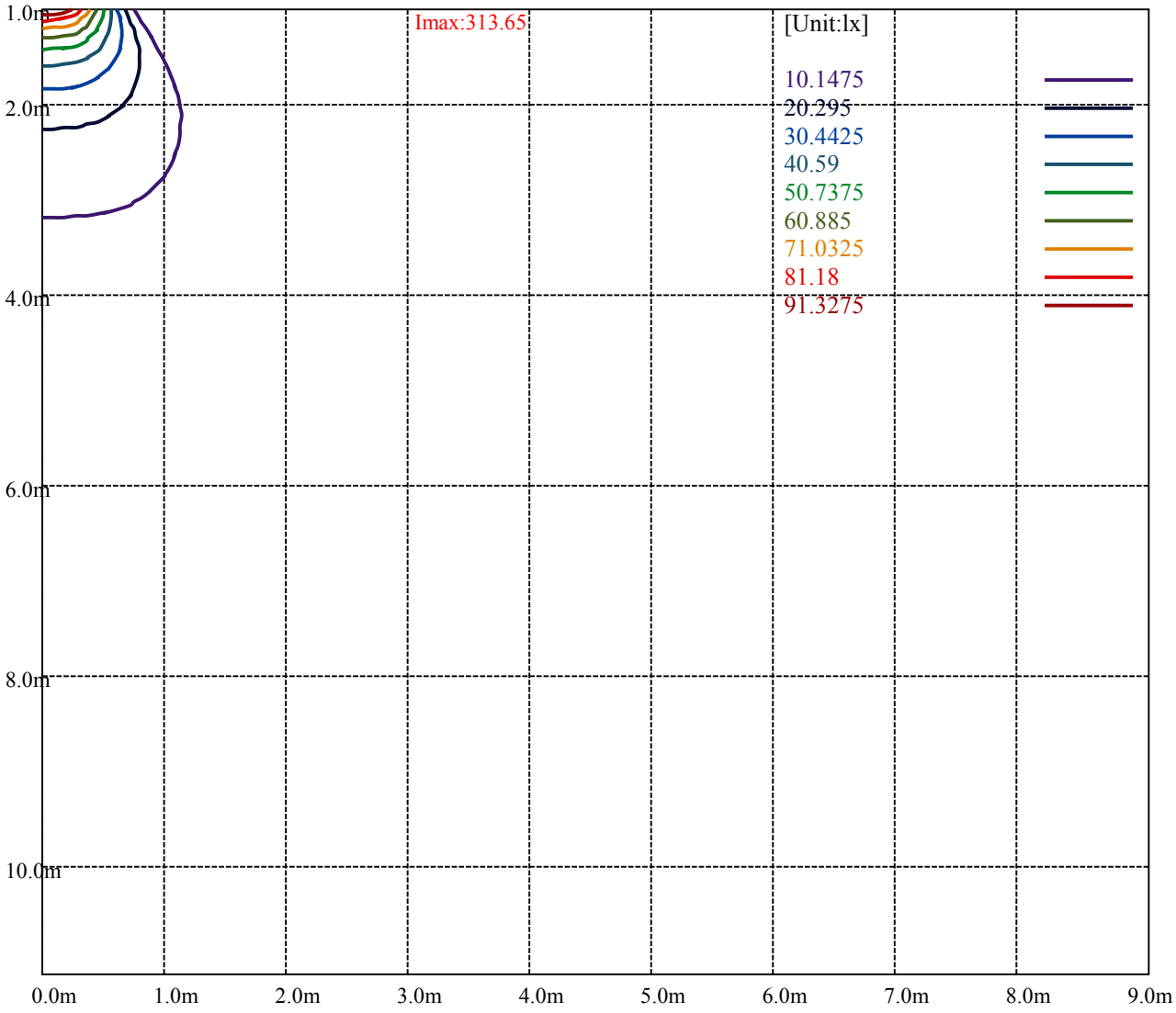


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/6/9
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/6/9
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

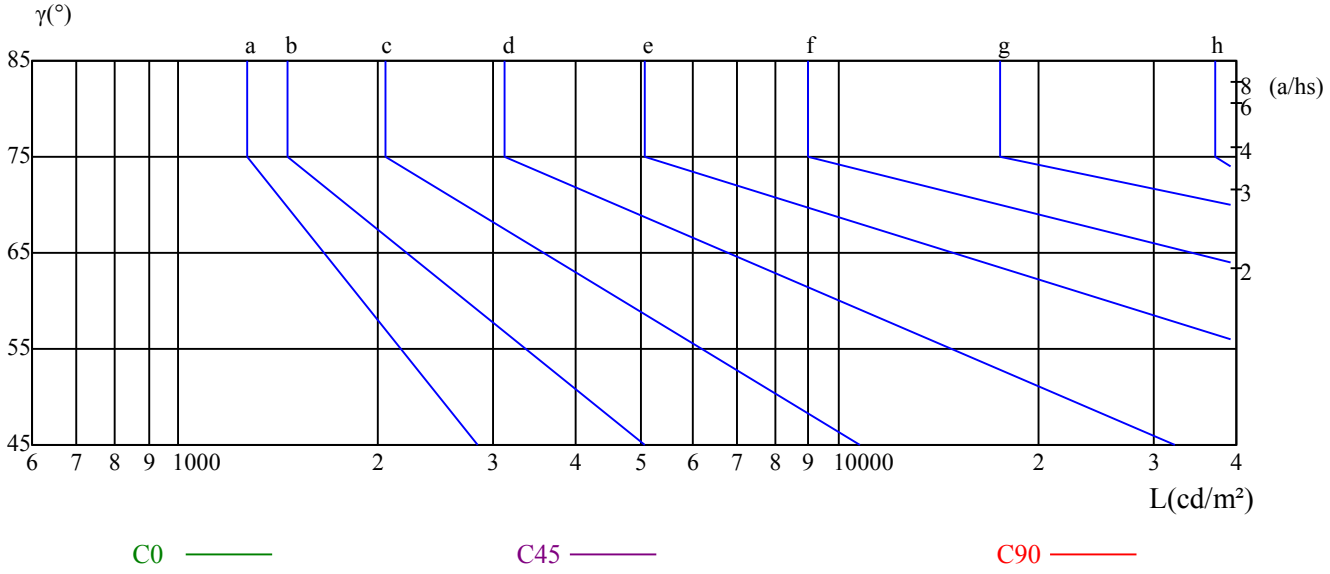
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

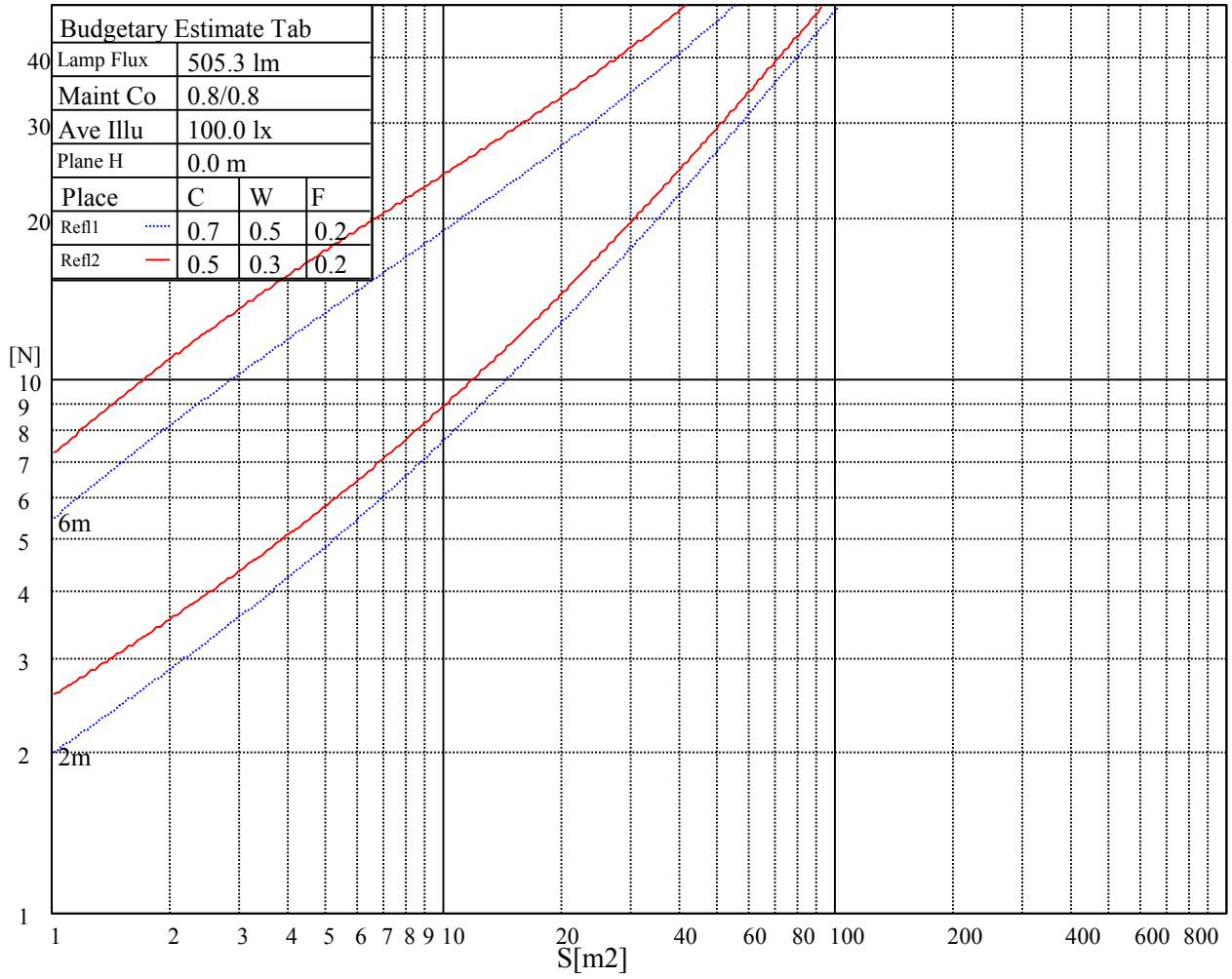
Glare Table

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



Budgetary Estimate Table

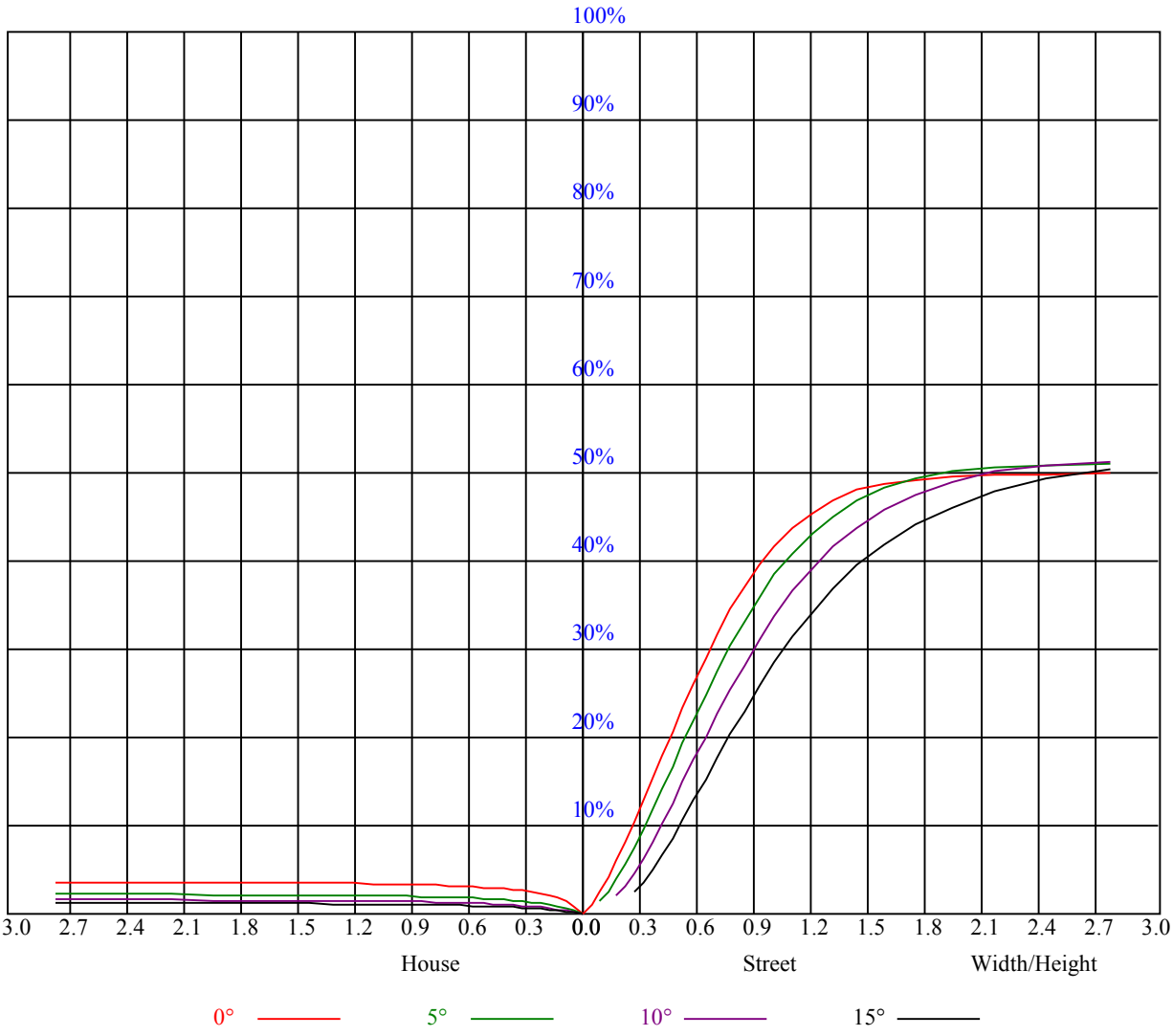


Equipment: GMS1980	Date: 2020/6/9	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

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	0.64	0.64	0.64	0.63	0.63	0.63	0.60	0.60	0.60	0.58	0.58	0.58	0.55	0.55	0.55	0.54
1	0.58	0.57	0.55	0.57	0.56	0.54	0.55	0.54	0.52	0.53	0.52	0.51	0.51	0.50	0.49	0.48
2	0.52	0.50	0.47	0.51	0.49	0.47	0.50	0.47	0.45	0.48	0.46	0.44	0.46	0.45	0.44	0.42
3	0.47	0.44	0.41	0.46	0.43	0.40	0.45	0.42	0.40	0.43	0.41	0.39	0.42	0.40	0.38	0.37
4	0.43	0.39	0.35	0.42	0.38	0.35	0.41	0.37	0.35	0.39	0.37	0.34	0.38	0.36	0.34	0.33
5	0.39	0.34	0.31	0.38	0.34	0.31	0.37	0.33	0.31	0.36	0.33	0.30	0.35	0.32	0.30	0.29
6	0.35	0.31	0.28	0.34	0.30	0.28	0.34	0.30	0.27	0.33	0.30	0.27	0.32	0.29	0.27	0.26
7	0.32	0.28	0.25	0.31	0.27	0.25	0.31	0.27	0.24	0.30	0.27	0.24	0.29	0.26	0.24	0.23
8	0.29	0.25	0.22	0.29	0.25	0.22	0.28	0.25	0.22	0.28	0.24	0.22	0.27	0.24	0.22	0.21
9	0.27	0.23	0.20	0.27	0.23	0.20	0.26	0.22	0.20	0.25	0.22	0.20	0.25	0.22	0.20	0.19
10	0.25	0.21	0.18	0.24	0.21	0.18	0.24	0.20	0.18	0.23	0.20	0.18	0.23	0.20	0.18	0.17

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2020/6/9	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

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	101.48	101.59	101.70	101.36	101.48	101.70	101.93	102.21	102.38
22.5	101.08	106.88	113.18	118.07	123.92	131.85	138.99	145.97	153.00
45.0	106.93	116.55	127.46	141.02	152.66	159.81	166.95	172.46	177.98
67.5	99.84	113.57	130.22	146.31	159.02	167.46	175.84	183.26	191.64
90.0	107.44	122.57	139.11	156.94	166.44	173.93	182.08	191.70	200.08
112.5	98.89	112.73	129.32	144.96	157.89	166.39	173.70	180.34	188.49
135.0	105.02	116.21	127.29	138.38	151.71	158.91	164.76	169.37	173.48
157.5	100.29	107.04	113.18	117.68	123.24	129.77	135.90	143.16	149.12
180.0	101.48	101.53	101.36	101.53	101.25	100.97	100.86	100.58	100.35
202.5	101.08	95.29	89.16	82.97	78.02	72.90	68.18	62.21	56.53
225.0	106.93	94.89	83.59	73.07	64.07	54.51	44.21	36.51	31.33
247.5	99.84	86.01	71.16	58.89	47.03	35.49	28.97	23.12	21.09
270.0	107.44	92.19	76.56	62.04	48.83	36.73	28.58	22.78	21.15
292.5	98.89	85.16	73.41	58.44	46.69	37.07	28.86	23.06	21.26
315.0	105.02	94.44	82.80	72.62	63.73	54.34	43.26	36.51	31.33
337.5	100.29	94.78	88.71	81.79	76.78	72.39	67.33	61.71	56.70
360.0	101.48	101.59	101.70	101.36	101.48	101.70	101.93	102.21	102.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	102.38	102.71	102.77	103.05	102.94	102.77	102.43	101.81	100.97
22.5	157.56	160.54	164.08	167.51	170.94	173.64	176.51	179.16	181.52
45.0	184.22	191.25	197.10	202.95	209.25	213.98	218.19	222.81	226.35
67.5	200.59	207.90	216.11	222.98	229.61	234.90	239.68	244.07	249.41
90.0	208.74	218.70	225.68	231.92	238.28	243.79	248.63	253.58	258.30
112.5	196.59	204.53	212.34	219.21	226.58	232.71	237.77	240.81	247.28
135.0	178.09	183.09	187.65	192.54	197.10	201.38	204.81	209.25	212.96
157.5	153.23	155.08	156.83	157.78	158.74	159.81	160.59	161.55	162.23
180.0	99.56	98.72	97.82	97.37	96.19	95.18	93.88	92.81	91.69
202.5	51.81	45.56	39.94	36.11	32.91	29.14	25.99	22.56	20.70
225.0	25.37	22.16	20.98	19.97	18.68	17.72	16.82	15.86	14.96
247.5	19.97	18.68	17.27	16.37	15.30	14.23	13.50	12.71	11.76
270.0	19.52	18.28	17.16	16.03	14.96	14.06	13.11	12.21	11.53
292.5	19.86	18.56	17.44	16.37	15.36	14.46	13.56	12.83	11.98
315.0	25.65	22.11	20.81	19.63	18.56	17.66	16.65	15.81	15.02
337.5	51.19	45.73	41.06	36.45	33.08	29.76	26.72	23.79	20.98
360.0	102.38	102.71	102.77	103.05	102.94	102.77	102.43	101.81	100.97

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	100.01	98.94	97.82	96.36	94.89	93.38	90.62	88.37	86.18
22.5	183.04	184.56	186.69	187.82	188.72	189.96	190.35	190.58	190.35
45.0	229.78	233.04	235.41	238.05	240.69	242.83	244.63	246.49	248.12
67.5	253.97	258.36	263.53	267.36	271.86	275.79	280.13	284.18	287.78
90.0	262.91	268.03	271.97	277.03	281.36	284.57	288.90	293.40	296.72
112.5	251.55	255.09	260.61	264.54	267.69	272.25	276.24	279.11	283.16
135.0	215.55	218.70	221.40	223.76	226.18	228.60	231.58	233.33	234.51
157.5	162.68	163.74	165.04	165.83	166.89	167.51	167.51	167.96	167.91
180.0	90.39	88.93	87.24	85.56	83.70	81.79	79.43	77.18	74.59
202.5	19.74	19.01	18.17	17.38	16.71	15.92	15.24	14.46	13.78
225.0	14.18	13.39	12.66	12.04	11.36	10.86	10.29	9.73	9.28
247.5	11.19	10.63	9.96	9.39	8.89	8.27	7.76	7.26	6.81
270.0	10.80	10.18	9.62	9.00	8.44	7.88	7.37	6.86	6.47
292.5	11.31	10.74	10.18	9.51	9.00	8.49	7.88	7.43	7.03
315.0	14.18	13.56	12.83	12.21	11.64	11.14	10.52	10.07	9.68
337.5	19.41	18.68	18.00	17.27	16.65	16.03	15.41	14.68	14.06
360.0	100.01	98.94	97.82	96.36	94.89	93.38	90.62	88.37	86.18

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	82.69	79.76	77.23	73.69	70.14	67.22	61.71	55.63	48.88
22.5	189.68	189.00	187.31	185.40	182.98	179.94	176.12	171.73	166.39
45.0	249.69	251.04	252.34	253.41	253.63	253.91	253.46	252.68	250.82
67.5	291.71	294.98	298.86	302.01	305.10	307.13	308.53	309.15	308.19
90.0	300.04	303.36	307.01	309.94	312.53	313.43	313.65	313.14	311.63
112.5	286.43	288.90	292.73	295.26	298.01	299.25	300.77	301.11	300.09
135.0	236.36	237.38	238.56	239.46	239.91	239.91	239.96	238.50	236.59
157.5	167.01	166.78	164.98	163.97	162.17	158.91	155.64	151.37	146.76
180.0	72.34	69.24	65.87	63.06	60.36	55.91	51.41	46.01	39.15
202.5	13.16	12.49	11.76	11.25	10.69	10.01	9.51	9.00	8.55
225.0	8.83	8.21	7.82	7.43	6.92	6.58	6.24	5.85	5.46
247.5	6.41	5.96	5.57	5.29	4.95	4.67	4.44	4.16	3.88
270.0	5.96	5.63	5.29	5.01	4.67	4.39	4.16	3.88	3.71
292.5	6.58	6.19	5.85	5.51	5.18	4.89	4.61	4.39	4.16
315.0	9.17	8.72	8.33	7.88	7.48	7.14	6.81	6.47	6.13
337.5	13.44	12.83	12.21	11.59	11.03	10.46	9.96	9.51	9.06
360.0	82.69	79.76	77.23	73.69	70.14	67.22	61.71	55.63	48.88

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	41.23	36.84	32.51	25.37	19.63	15.75	12.26	10.46	9.90
22.5	162.06	155.53	145.07	133.48	118.97	105.02	90.96	82.24	73.07
45.0	248.57	245.25	241.71	237.38	231.13	225.39	219.04	210.77	203.96
67.5	306.68	303.81	300.26	295.65	290.03	283.33	275.40	268.76	260.21
90.0	308.98	305.44	301.44	295.88	289.63	283.11	275.79	265.28	256.44
112.5	298.69	295.99	292.78	288.34	284.34	277.82	270.28	263.42	255.26
135.0	234.68	231.41	227.81	222.92	217.29	211.67	205.76	197.72	190.91
157.5	141.30	135.06	124.59	113.34	101.48	89.72	78.41	69.92	59.68
180.0	34.82	30.94	26.55	21.32	17.21	13.78	11.64	10.86	10.18
202.5	8.04	7.65	7.26	6.86	6.53	6.24	5.91	5.63	5.29
225.0	5.23	4.89	4.61	4.33	4.05	3.83	3.66	3.38	3.21
247.5	3.71	3.49	3.32	3.15	3.04	2.81	2.70	2.59	2.42
270.0	3.54	3.38	3.21	3.04	2.87	2.76	2.64	2.48	2.36
292.5	3.94	3.77	3.60	3.38	3.21	3.09	2.93	2.76	2.64
315.0	5.79	5.57	5.34	5.06	4.84	4.61	4.39	4.22	4.05
337.5	8.61	8.21	7.93	7.48	7.20	6.92	6.58	6.30	6.08
360.0	41.23	36.84	32.51	25.37	19.63	15.75	12.26	10.46	9.90

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	9.39	8.83	8.44	7.93	7.54	7.09	6.64	6.30	5.91
22.5	57.43	43.43	31.84	24.69	19.91	18.39	17.27	16.14	15.02
45.0	196.03	186.53	178.71	168.92	155.19	136.63	119.42	103.78	92.76
67.5	252.68	243.11	233.66	224.89	216.51	205.88	197.16	187.76	176.57
90.0	247.16	237.54	228.49	220.05	209.87	199.86	190.91	181.01	171.34
112.5	247.61	238.44	228.71	219.94	211.73	201.26	192.71	183.77	173.19
135.0	183.77	174.71	166.56	155.70	140.23	122.57	108.17	95.01	84.38
157.5	46.52	34.71	26.66	21.38	19.58	18.28	17.27	16.43	15.13
180.0	9.62	9.11	8.55	8.10	7.71	7.20	6.86	6.47	6.08
202.5	5.01	4.78	4.44	4.28	4.05	3.77	3.54	3.38	3.15
225.0	3.09	2.87	2.76	2.64	2.48	2.36	2.25	2.14	2.03
247.5	2.31	2.19	2.03	1.91	1.80	1.74	1.69	1.63	1.58
270.0	2.19	2.08	1.91	1.86	1.69	1.58	1.52	1.46	1.41
292.5	2.53	2.36	2.25	2.08	1.97	1.91	1.80	1.69	1.63
315.0	3.88	3.66	3.54	3.32	3.21	2.98	2.87	2.70	2.53
337.5	5.74	5.51	5.23	4.95	4.73	4.44	4.22	4.05	3.83
360.0	9.39	8.83	8.44	7.93	7.54	7.09	6.64	6.30	5.91

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	5.51	5.23	4.95	4.56	4.28	4.05	3.77	3.49	3.32
22.5	13.89	13.05	11.98	11.14	10.35	9.45	8.38	7.59	6.92
45.0	79.31	59.91	44.44	32.96	29.03	26.38	23.79	20.87	18.62
67.5	168.30	160.43	143.55	113.85	84.83	46.97	40.73	36.11	31.95
90.0	144.28	112.50	79.76	54.23	48.26	43.88	39.88	35.10	31.67
112.5	164.87	157.16	142.93	114.30	86.51	48.43	38.48	34.37	30.32
135.0	67.22	47.76	36.45	31.11	28.24	25.71	23.29	20.64	18.06
157.5	14.29	13.67	12.60	11.87	11.14	10.07	9.11	8.49	7.65
180.0	5.68	5.34	5.01	4.67	4.39	4.11	3.88	3.60	3.38
202.5	3.04	2.87	2.64	2.53	2.36	2.31	2.14	2.03	1.91
225.0	1.97	1.91	1.80	1.74	1.69	1.58	1.58	1.52	1.46
247.5	1.46	1.46	1.41	1.35	1.35	1.29	1.29	1.24	1.24
270.0	1.35	1.24	1.24	1.18	1.18	1.18	1.13	1.13	1.13
292.5	1.52	1.46	1.41	1.35	1.35	1.29	1.24	1.24	1.18
315.0	2.36	2.31	2.14	2.03	1.91	1.80	1.69	1.63	1.52
337.5	3.54	3.38	3.21	2.98	2.81	2.64	2.48	2.36	2.19
360.0	5.51	5.23	4.95	4.56	4.28	4.05	3.77	3.49	3.32

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.09	2.93	2.76	2.59	2.48	2.36	2.25	2.19	2.08
22.5	6.13	5.51	5.01	4.50	4.11	3.83	3.49	3.21	2.93
45.0	16.48	13.84	12.04	10.58	9.23	8.16	7.31	6.47	5.85
67.5	28.63	25.26	22.22	19.80	17.55	15.02	13.16	11.36	9.45
90.0	28.41	24.69	21.94	19.41	16.37	14.34	12.09	10.01	8.78
112.5	27.06	23.85	21.09	18.68	16.54	14.12	12.38	10.52	8.78
135.0	15.81	13.05	11.25	9.84	8.66	7.43	6.69	6.02	5.40
157.5	7.09	6.53	5.96	5.51	5.12	4.61	4.33	3.99	3.66
180.0	3.15	2.98	2.87	2.70	2.59	2.42	2.36	2.25	2.14
202.5	1.86	1.74	1.63	1.58	1.52	1.46	1.41	1.35	1.29
225.0	1.41	1.35	1.35	1.29	1.29	1.24	1.24	1.18	1.18
247.5	1.24	1.18	1.18	1.13	1.13	1.13	1.13	1.13	1.13
270.0	1.07	1.07	1.07	1.07	1.07	1.07	1.01	1.01	1.01
292.5	1.13	1.18	1.13	1.13	1.07	1.07	1.01	1.07	1.07
315.0	1.46	1.41	1.35	1.29	1.29	1.24	1.24	1.24	1.18
337.5	2.08	1.97	1.86	1.74	1.69	1.63	1.58	1.52	1.46
360.0	3.09	2.93	2.76	2.59	2.48	2.36	2.25	2.19	2.08

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.03	1.97	1.86	1.80	1.74	1.74	1.69	1.69	1.63
22.5	2.70	2.53	2.31	2.14	1.97	1.86	1.69	1.58	1.46
45.0	5.18	4.61	4.16	3.66	3.26	2.98	2.64	2.31	2.08
67.5	8.04	6.98	6.13	5.06	4.44	3.88	3.32	2.87	2.42
90.0	7.43	6.24	5.51	4.78	3.94	3.43	2.98	2.53	2.19
112.5	7.54	6.53	5.51	4.61	4.11	3.49	3.04	2.64	2.31
135.0	4.78	4.33	3.83	3.43	3.09	2.76	2.53	2.31	2.03
157.5	3.43	3.21	2.98	2.76	2.59	2.36	2.25	2.03	1.86
180.0	2.08	2.03	1.97	1.86	1.80	1.80	1.74	1.69	1.69
202.5	1.24	1.18	1.18	1.13	1.13	1.07	1.01	1.01	1.01
225.0	1.18	1.18	1.13	1.07	1.13	1.18	1.13	1.13	1.18
247.5	1.13	1.13	1.13	1.13	1.18	1.18	1.24	1.24	1.18
270.0	1.01	1.01	1.01	1.07	1.07	1.13	1.13	1.07	1.07
292.5	1.01	1.07	1.07	1.01	1.07	1.07	1.07	1.13	1.07
315.0	1.18	1.18	1.13	1.13	1.13	1.07	1.07	1.13	1.13
337.5	1.41	1.41	1.35	1.35	1.29	1.29	1.24	1.24	1.24
360.0	2.03	1.97	1.86	1.80	1.74	1.74	1.69	1.69	1.63

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	1.63	1.58	1.58	1.52	1.52	1.52	1.52	1.52	1.52
22.5	1.35	1.29	1.18	1.07	1.01	0.84	0.84	0.79	0.73
45.0	1.91	1.69	1.46	1.29	1.07	0.96	0.84	0.79	0.73
67.5	2.14	1.91	1.52	1.35	1.18	1.01	0.90	0.79	0.68
90.0	2.03	1.69	1.41	1.24	1.13	1.01	0.84	0.73	0.68
112.5	2.14	2.03	1.52	1.35	1.24	1.07	1.01	0.90	0.79
135.0	1.86	1.69	1.52	1.41	1.24	1.18	1.07	1.01	0.96
157.5	1.74	1.63	1.46	1.41	1.35	1.29	1.18	1.13	1.07
180.0	1.63	1.63	1.63	1.58	1.58	1.52	1.52	1.52	1.52
202.5	1.01	1.01	0.96	0.96	0.96	0.90	0.79	0.79	0.79
225.0	1.13	1.13	1.13	1.07	1.01	1.01	0.79	0.79	0.73
247.5	1.13	1.13	1.07	1.07	1.13	1.58	0.73	0.73	0.73
270.0	1.13	1.01	0.96	0.96	0.96	1.58	0.68	0.68	0.73
292.5	1.07	1.07	1.07	1.01	1.07	1.91	0.79	0.79	0.79
315.0	1.07	1.07	1.07	1.07	1.07	1.01	0.84	0.84	0.84
337.5	1.18	1.18	1.18	1.18	1.18	1.13	1.07	1.07	1.01
360.0	1.63	1.58	1.58	1.52	1.52	1.52	1.52	1.52	1.52

C/γ(°)	90.0
0.0	1.52
22.5	0.73
45.0	0.68
67.5	0.68
90.0	0.68
112.5	0.73
135.0	0.84
157.5	1.07
180.0	1.52
202.5	0.79
225.0	0.73
247.5	0.73
270.0	0.73
292.5	0.79
315.0	0.90
337.5	1.07
360.0	1.52