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

Nata

LumCAT: 2-2188-M
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC20200211723
LampCAT: CITIZEN CLU038
Lamp flux(lm): 2507.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 36.0000
Current(A): 0.6000
Power (W): 21.6000
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1978.37
Efficiency(%): 78.91%
Lumens(lm)/Power(W): 91.59
Central intensity(cd): 5763.656
Maximum intensity(cd): 5763.656
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.7
[C90/270]Total=35.7
Field angle(10%Imax): [C0/180]Total=53.6
[C90/270]Total=53.6
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.704%

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2020/2/17
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	5763.656	0.000	0	.000%	.000%
1.0	5753.391	5.511	5.511	.220%	.279%
2.0	5719.430	16.467	21.978	.657%	1.111%
3.0	5656.852	27.208	49.186	1.085%	2.486%
4.0	5580.633	37.615	86.801	1.500%	4.388%
5.0	5485.641	47.607	134.408	1.899%	6.794%
6.0	5355.211	56.972	191.379	2.272%	9.674%
7.0	5209.875	65.577	256.957	2.616%	12.988%
8.0	5057.648	73.483	330.439	2.931%	16.703%
9.0	4876.383	80.510	410.949	3.211%	20.772%
10.0	4676.766	86.452	497.402	3.448%	25.142%
11.0	4487.344	91.568	588.97	3.653%	29.771%
12.0	4281.820	95.860	684.83	3.824%	34.616%
13.0	4050.422	98.883	783.712	3.944%	39.614%
14.0	3840.328	101.001	884.713	4.029%	44.719%
15.0	3617.156	102.380	987.093	4.084%	49.894%
16.0	3382.945	102.571	1089.664	4.091%	55.079%
17.0	3111.117	101.130	1190.794	4.034%	60.191%
18.0	2836.828	98.069	1288.863	3.912%	65.148%
19.0	2567.320	94.021	1382.884	3.750%	69.900%
20.0	2285.367	88.818	1471.702	3.543%	74.390%
21.0	2002.641	82.338	1554.04	3.284%	78.552%
22.0	1751.836	75.448	1629.488	3.009%	82.365%
23.0	1458.928	67.371	1696.858	2.687%	85.771%
24.0	1197.260	58.074	1754.932	2.316%	88.706%
25.0	967.746	49.228	1804.16	1.964%	91.194%
26.0	741.586	40.349	1844.509	1.609%	93.234%
27.0	532.969	31.182	1875.691	1.244%	94.810%
28.0	336.045	22.002	1897.692	.878%	95.922%
29.0	229.163	14.787	1912.48	.590%	96.670%
30.0	104.400	9.006	1921.486	.359%	97.125%
31.0	54.809	4.431	1925.917	.177%	97.349%
32.0	36.253	2.609	1928.525	.104%	97.481%
33.0	26.346	1.844	1930.37	.074%	97.574%
34.0	20.060	1.404	1931.774	.056%	97.645%
35.0	16.298	1.129	1932.903	.045%	97.702%
36.0	14.372	0.977	1933.88	.039%	97.751%
37.0	13.085	0.895	1934.775	.036%	97.797%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	12.291	0.847	1935.622	.034%	97.839%
39.0	11.651	0.817	1936.439	.033%	97.881%
40.0	11.173	0.796	1937.235	.032%	97.921%
41.0	10.821	0.783	1938.018	.031%	97.961%
42.0	10.484	0.774	1938.793	.031%	98.000%
43.0	10.216	0.767	1939.559	.031%	98.038%
44.0	9.984	0.762	1940.322	.030%	98.077%
45.0	9.788	0.760	1941.082	.030%	98.115%
46.0	9.619	0.759	1941.841	.030%	98.154%
47.0	9.457	0.759	1942.599	.030%	98.192%
48.0	9.345	0.760	1943.359	.030%	98.231%
49.0	9.239	0.763	1944.122	.030%	98.269%
50.0	9.105	0.765	1944.887	.031%	98.308%
51.0	9.021	0.767	1945.654	.031%	98.347%
52.0	8.944	0.771	1946.425	.031%	98.386%
53.0	8.845	0.774	1947.199	.031%	98.425%
54.0	8.768	0.776	1947.975	.031%	98.464%
55.0	8.698	0.780	1948.755	.031%	98.503%
56.0	8.627	0.783	1949.538	.031%	98.543%
57.0	8.599	0.788	1950.325	.031%	98.583%
58.0	8.557	0.793	1951.119	.032%	98.623%
59.0	8.487	0.797	1951.916	.032%	98.663%
60.0	8.459	0.801	1952.716	.032%	98.704%
61.0	8.402	0.805	1953.521	.032%	98.744%
62.0	8.374	0.808	1954.329	.032%	98.785%
63.0	8.311	0.811	1955.141	.032%	98.826%
64.0	8.297	0.815	1955.956	.033%	98.867%
65.0	8.262	0.819	1956.775	.033%	98.909%
66.0	8.255	0.824	1957.599	.033%	98.950%
67.0	8.248	0.830	1958.429	.033%	98.992%
68.0	8.213	0.834	1959.263	.033%	99.034%
69.0	8.191	0.837	1960.1	.033%	99.077%
70.0	8.191	0.841	1960.941	.034%	99.119%
71.0	8.191	0.847	1961.788	.034%	99.162%
72.0	8.184	0.851	1962.639	.034%	99.205%
73.0	8.184	0.856	1963.495	.034%	99.248%
74.0	8.170	0.860	1964.355	.034%	99.292%
75.0	8.177	0.864	1965.219	.034%	99.335%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.156	0.867	1966.086	.035%	99.379%
77.0	8.170	0.870	1966.956	.035%	99.423%
78.0	8.149	0.874	1967.83	.035%	99.467%
79.0	8.142	0.875	1968.705	.035%	99.512%
80.0	8.142	0.878	1969.583	.035%	99.556%
81.0	8.135	0.880	1970.463	.035%	99.601%
82.0	8.128	0.882	1971.345	.035%	99.645%
83.0	8.156	0.885	1972.23	.035%	99.690%
84.0	8.191	0.891	1973.121	.036%	99.735%
85.0	8.079	0.888	1974.009	.035%	99.780%
86.0	7.988	0.878	1974.887	.035%	99.824%
87.0	7.931	0.871	1975.758	.035%	99.868%
88.0	7.924	0.869	1976.627	.035%	99.912%
89.0	7.924	0.869	1977.496	.035%	99.956%
90.0	7.931	0.869	1978.365	.035%	100.000%

Zonal flux distribution table

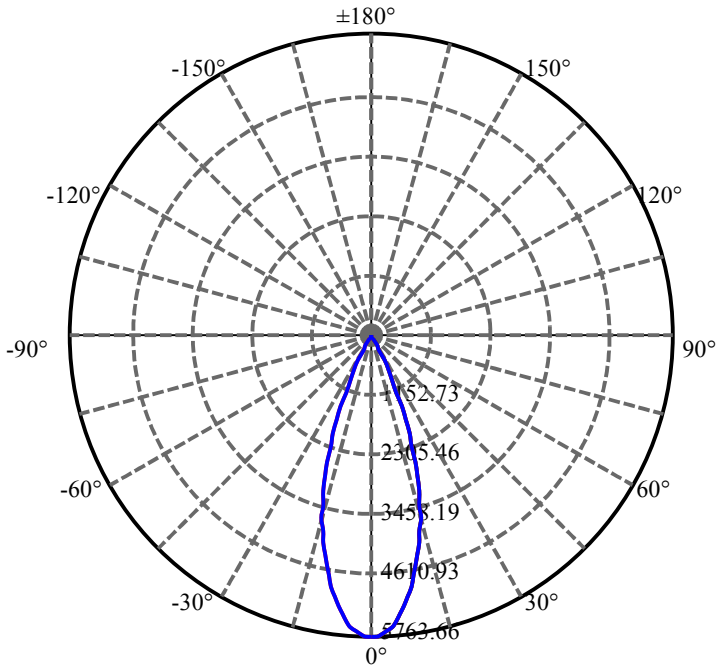
ZONAL LUMEN SUMMARY

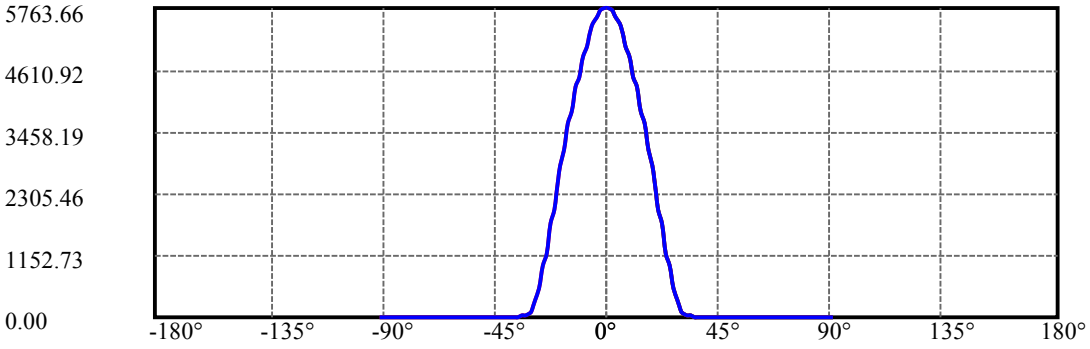
Zone	Lumens	%Lamp	%Fixt
0-30	1921.49	76.64%	97.12%
0-40	1937.24	77.27%	97.92%
0-60	1952.72	77.89%	98.70%
0-90	1977.50	78.88%	99.96%
0-120	1977.50	78.88%	99.96%
0-180	1978.37	78.91%	100.00%
60-90	25.58	1.02%	1.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-21.38	1582.69	63.13%	80.00%

ZONAL LUMEN SUMMARY

0-10	497.40
10-20	974.30
20-30	449.78
30-40	15.75
40-50	7.65
50-60	7.83
60-70	8.22
70-80	8.64
80-90	7.91
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:26.8 Right:26.8
:C90/270Left:26.8 Right:26.8

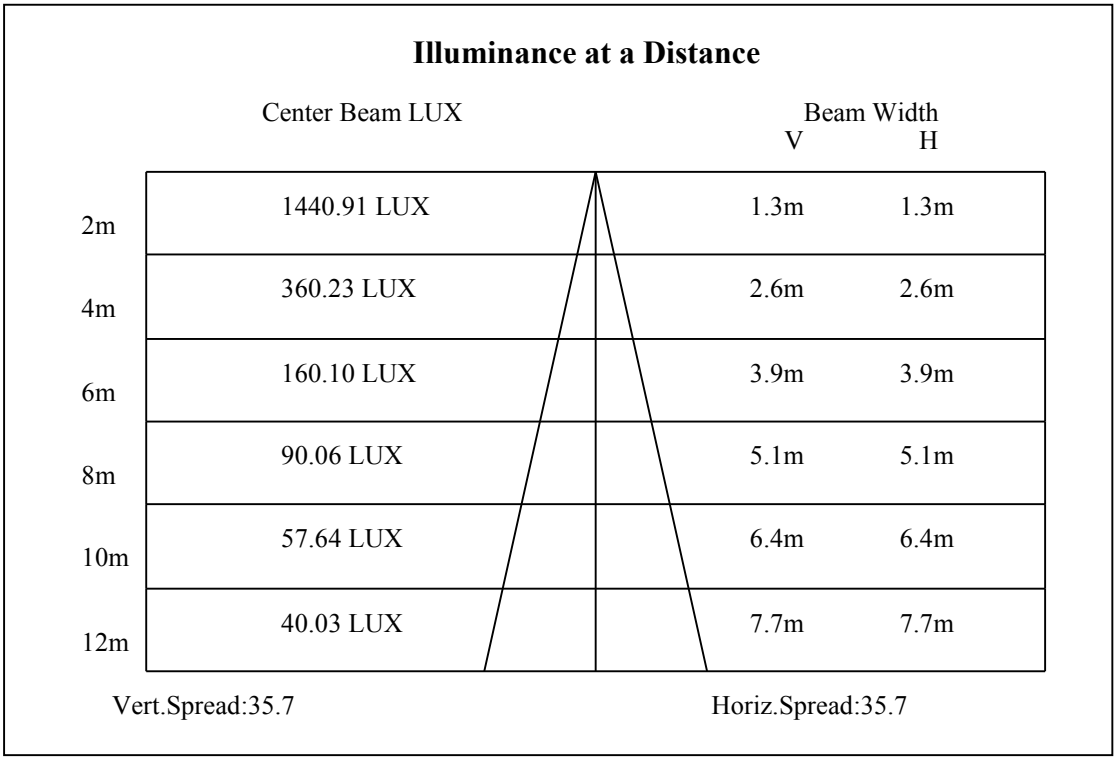
Beam Angle(50%Imax):C0/180Left:17.8 Right:17.8
:C90/270Left:17.8 Right:17.8

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/2/17
Humidity(%): 65.0%

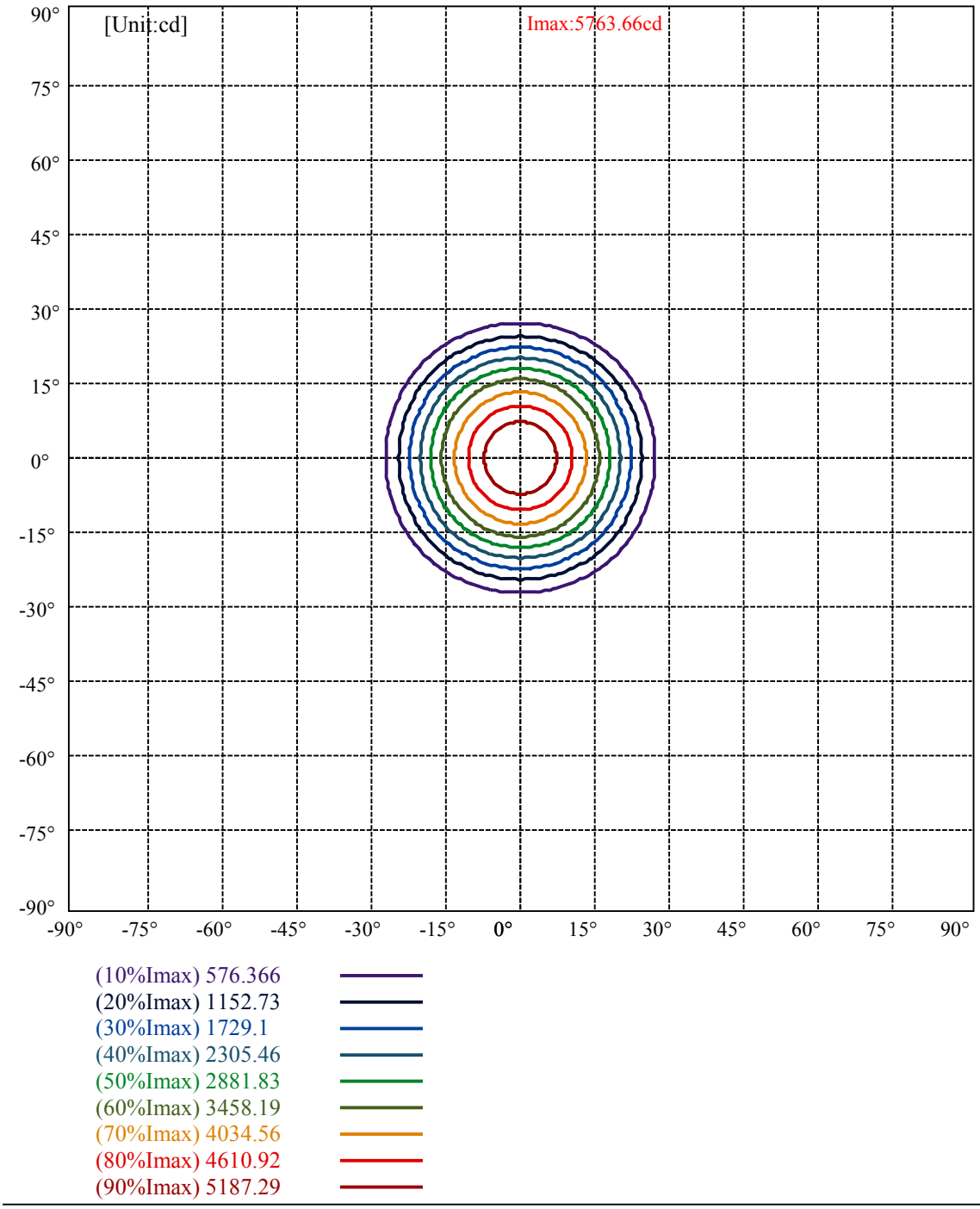
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2020/2/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

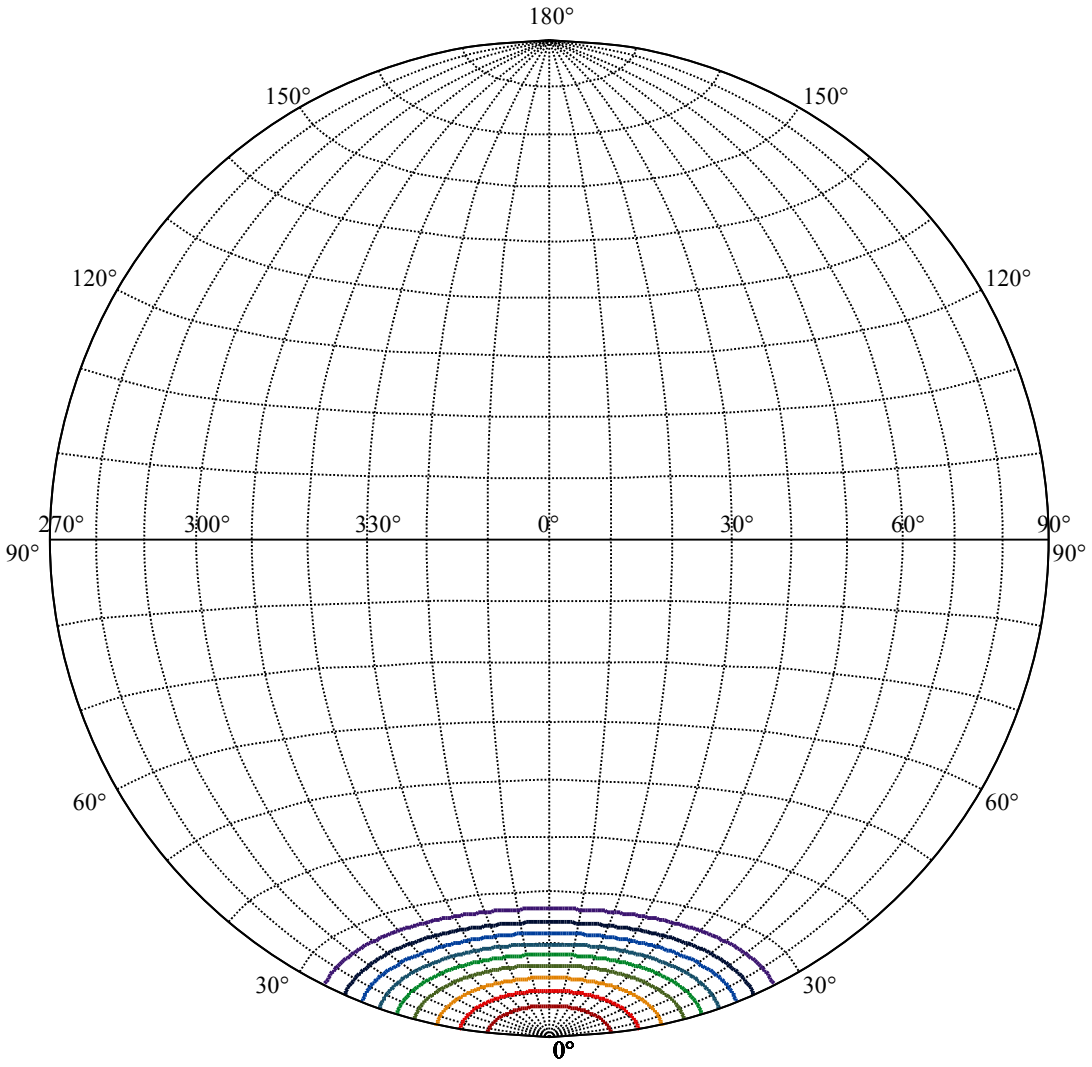


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/2/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5763.66

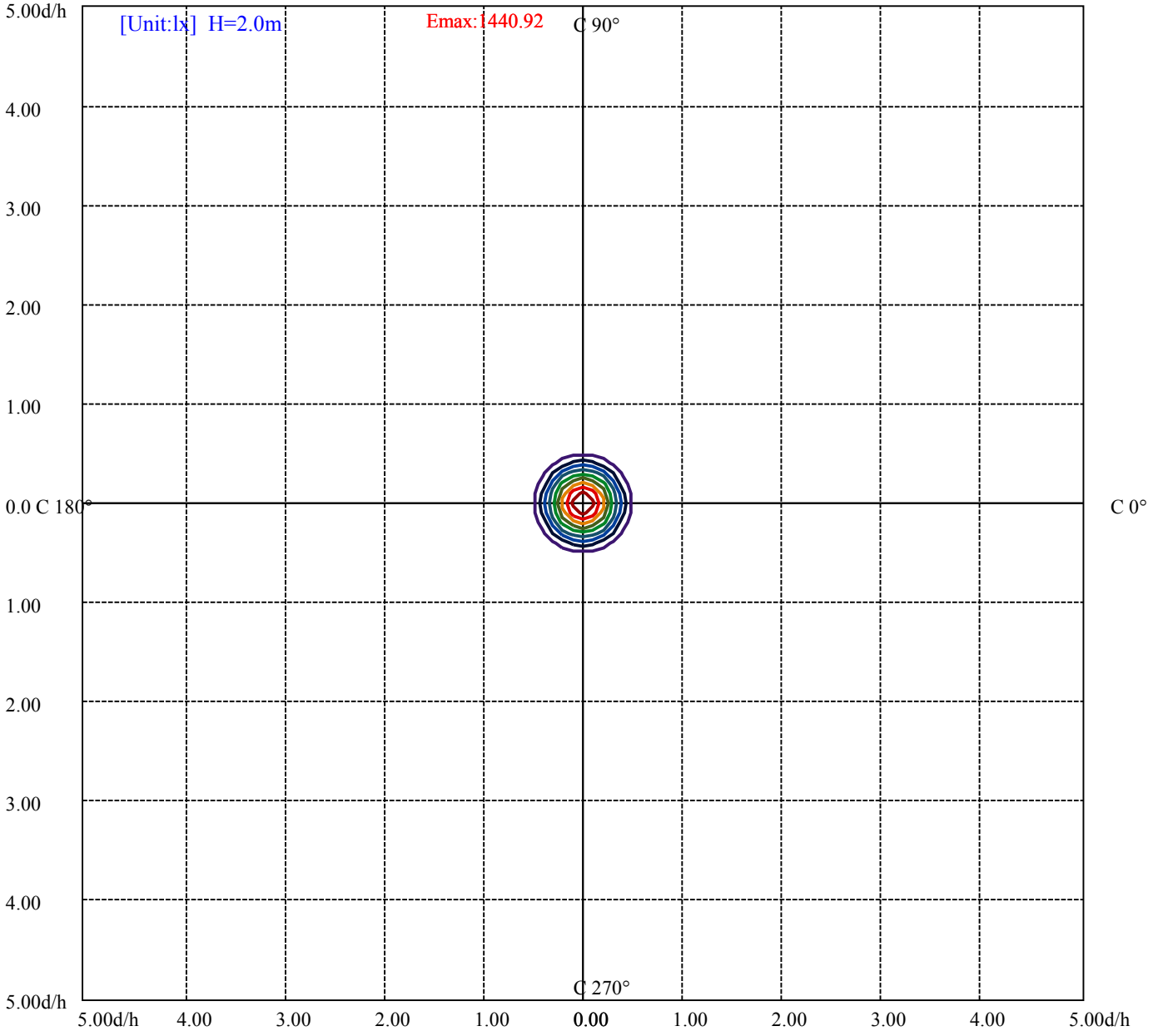
(10%Imax) 576.366
(20%Imax) 1152.73
(30%Imax) 1729.1
(40%Imax) 2305.46
(50%Imax) 2881.83
(60%Imax) 3458.19
(70%Imax) 4034.56
(80%Imax) 4610.92
(90%Imax) 5187.29

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/2/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram

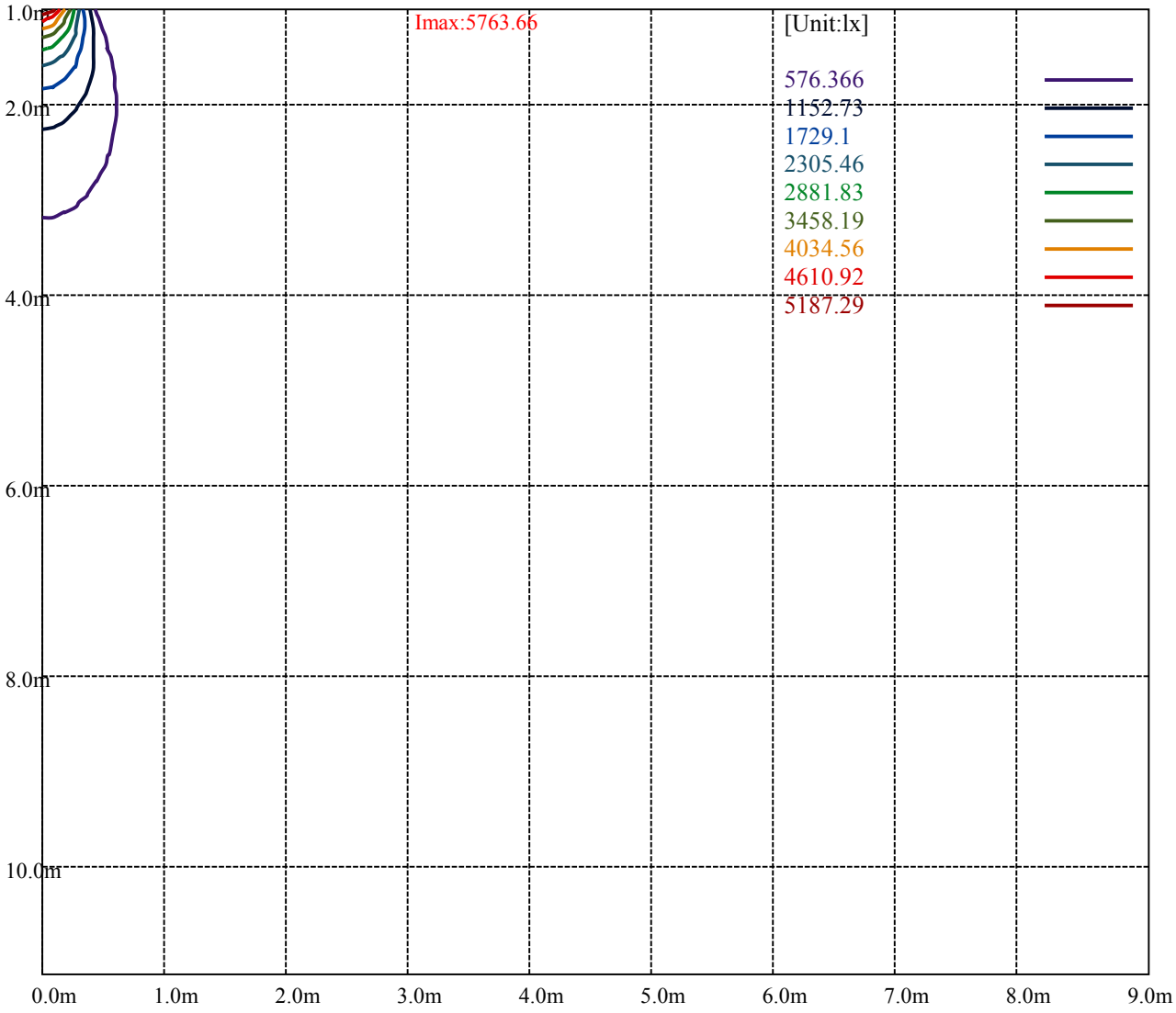


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/2/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/2/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

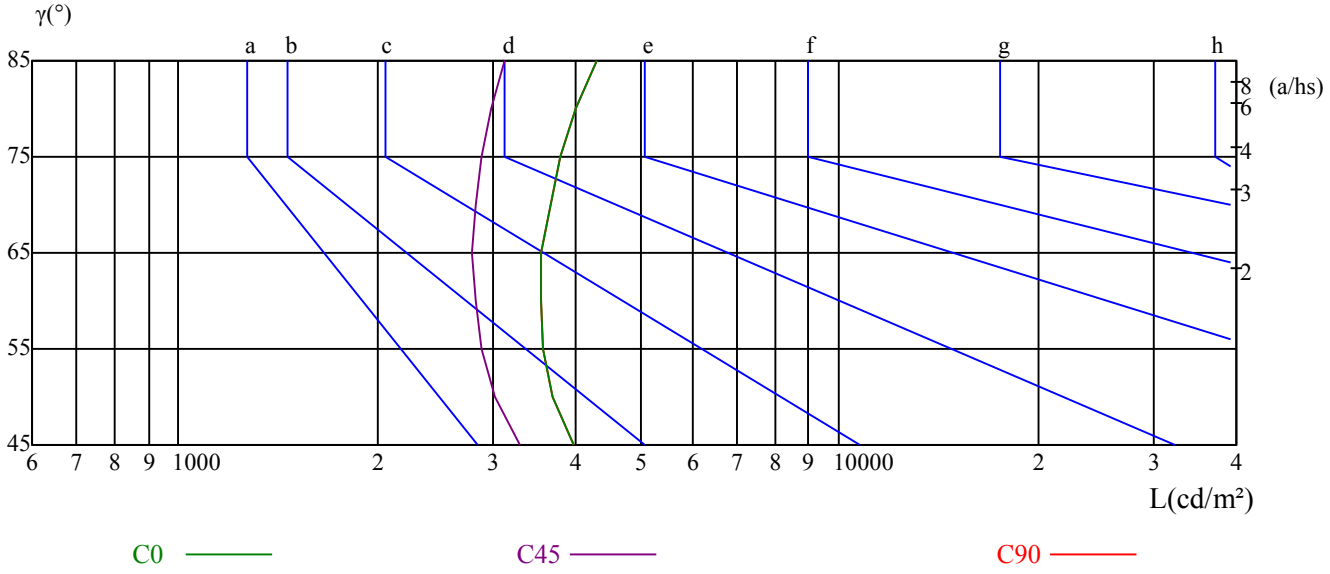
γ	45	50	55	60	65	70	75	80	85
C0	3955	3683	3556	3535	3547	3659	3797	4003	4302
C45	3296	3023	2875	2815	2780	2819	2873	2969	3120
C90	3955	3683	3556	3535	3547	3659	3797	4003	4302

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10648	10648	10648	17024	17024	17024	50197	50197	50197

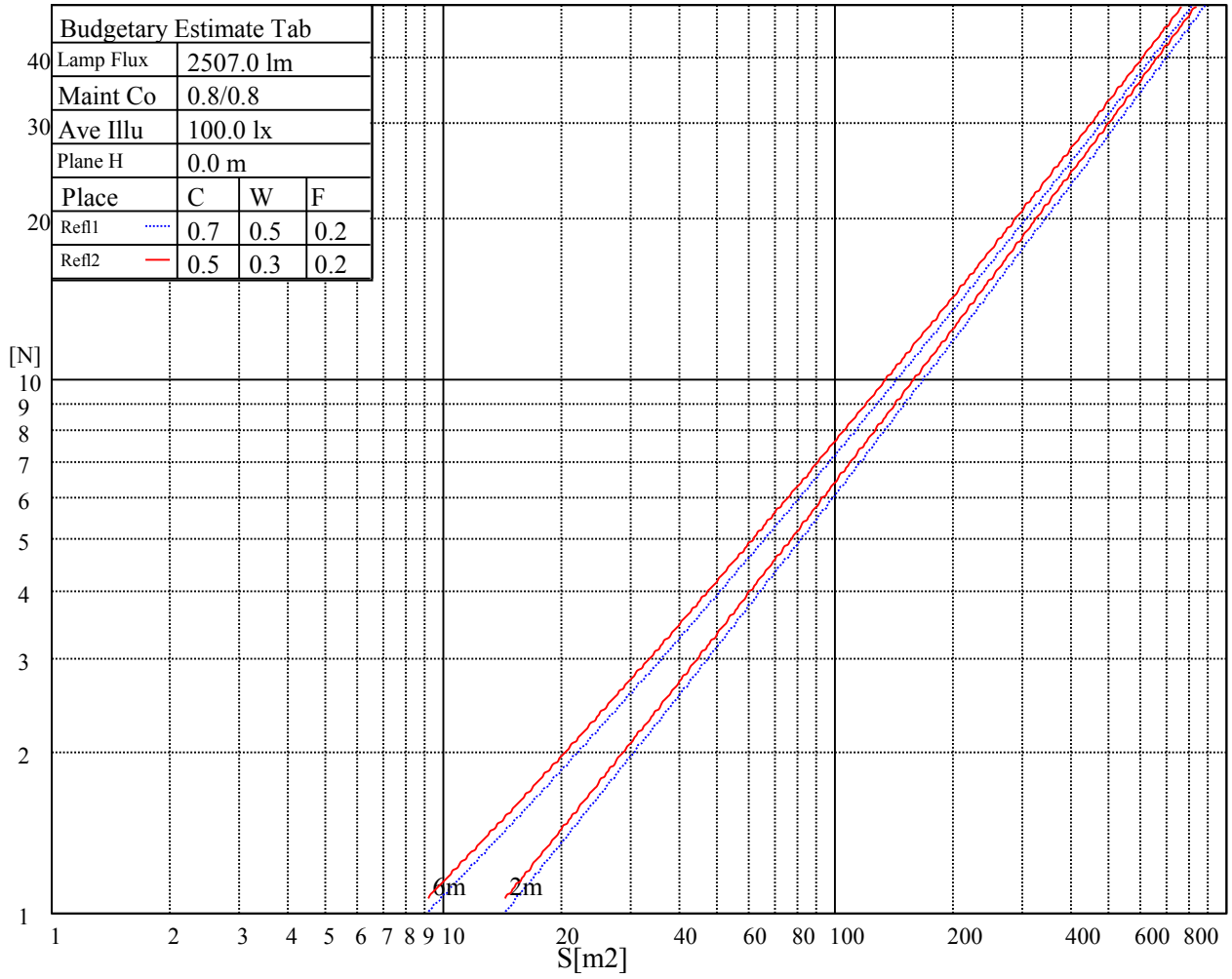
Glare Table

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

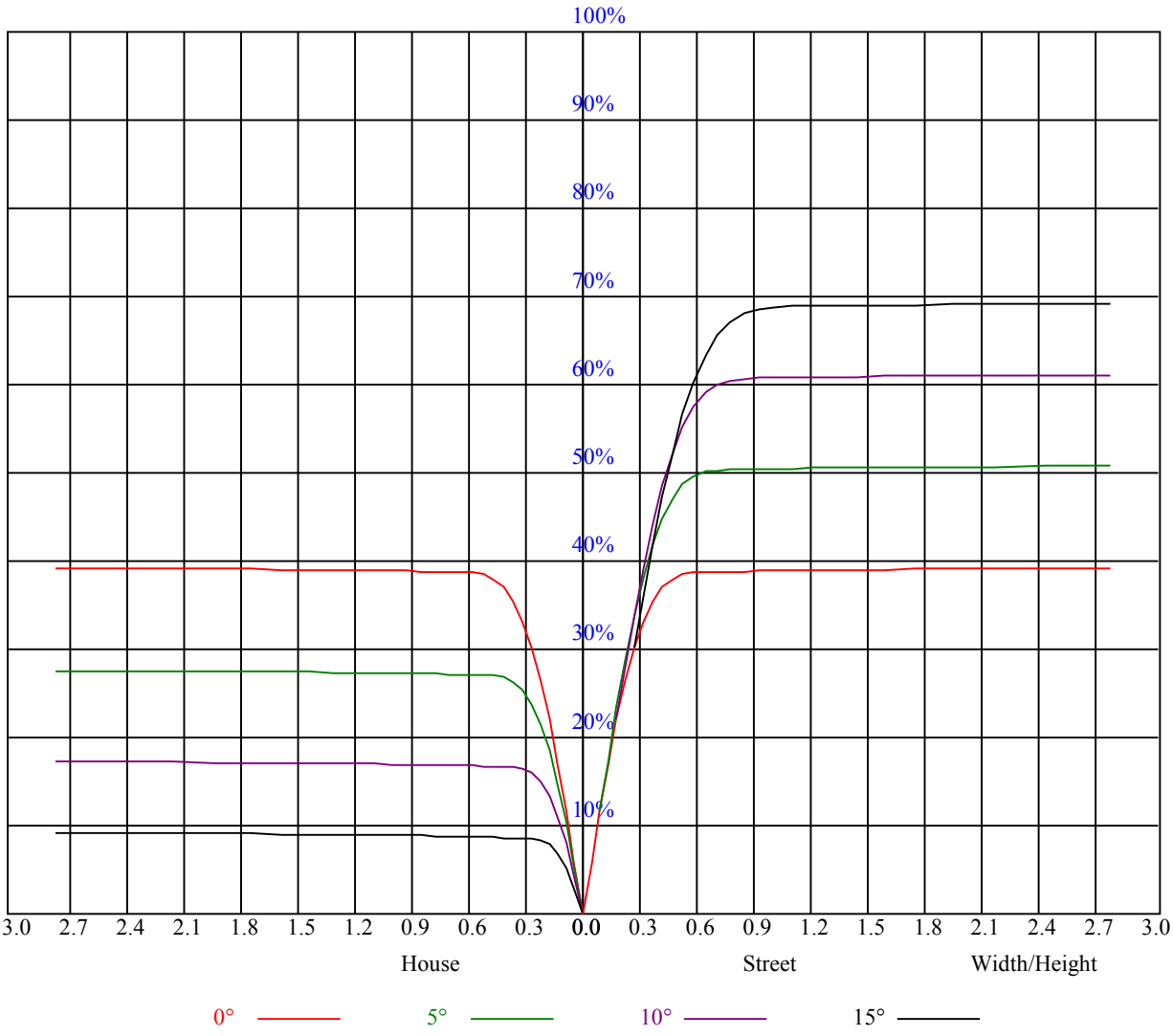


Equipment: GMS1980 Date: 2020/2/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.94	0.94	0.94	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.89	0.87	0.85	0.87	0.85	0.84	0.84	0.83	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.75
2	0.84	0.81	0.79	0.83	0.80	0.78	0.80	0.78	0.77	0.78	0.76	0.75	0.76	0.75	0.74	0.72
3	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.74	0.72	0.71	0.70
4	0.77	0.73	0.71	0.76	0.73	0.70	0.74	0.72	0.70	0.73	0.71	0.69	0.71	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.70	0.68	0.66	0.69	0.67	0.65	0.65
6	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.67	0.65	0.63	0.62
7	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.60
8	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.58
9	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.56
10	0.61	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.60	0.57	0.55	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2020/2/17	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	5760.00	5770.69	5756.63	5727.38	5659.31	5571.00	5487.19	5341.50	5205.38
45.0	5760.56	5766.19	5745.38	5703.75	5642.44	5554.13	5439.94	5313.94	5154.19
90.0	5765.63	5754.38	5722.31	5653.69	5578.31	5486.06	5339.25	5198.06	5044.50
135.0	5768.44	5758.31	5722.88	5667.75	5586.19	5496.19	5371.31	5217.75	5065.88
180.0	5760.00	5729.63	5676.75	5588.44	5497.88	5388.19	5259.38	5071.50	4904.44
225.0	5760.56	5736.38	5689.69	5603.63	5517.56	5411.81	5254.88	5113.13	4957.31
270.0	5765.63	5754.94	5718.38	5662.69	5580.56	5487.75	5360.06	5212.13	5066.44
315.0	5768.44	5756.63	5723.44	5647.50	5582.81	5490.00	5329.69	5211.00	5063.06
360.0	5760.00	5770.69	5756.63	5727.38	5659.31	5571.00	5487.19	5341.50	5205.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5054.63	4843.69	4663.13	4474.69	4224.94	4021.88	3814.88	3545.44	3311.44
45.0	4978.13	4807.13	4602.38	4413.38	4193.44	3966.19	3762.00	3576.38	3261.94
90.0	4856.63	4658.06	4474.13	4259.25	4038.19	3837.94	3574.69	3377.25	3101.06
135.0	4883.06	4680.56	4491.56	4295.81	4044.94	3842.44	3635.44	3388.50	3125.25
180.0	4703.63	4488.19	4291.31	4066.88	3864.94	3633.19	3417.19	3156.75	2909.81
225.0	4768.31	4563.56	4372.31	4150.13	3920.06	3714.19	3474.00	3241.69	2958.19
270.0	4889.25	4695.75	4514.63	4325.63	4077.56	3873.94	3664.13	3411.00	3135.38
315.0	4877.44	4677.19	4489.31	4268.81	4039.31	3832.88	3594.94	3366.56	3085.88
360.0	5054.63	4843.69	4663.13	4474.69	4224.94	4021.88	3814.88	3545.44	3311.44

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3064.50	2783.25	2495.25	2241.00	1956.94	1684.69	1440.00	1161.00	920.25
45.0	3005.44	2767.50	2400.19	2161.13	1943.44	1622.25	1355.06	1149.19	869.63
90.0	2774.25	2542.50	2284.31	1934.44	1724.06	1482.19	1096.09	955.24	740.19
135.0	2870.44	2561.63	2272.50	2020.50	1756.13	1502.44	1231.31	977.63	759.38
180.0	2620.69	2327.06	2071.69	1794.38	1526.63	1107.11	1048.50	765.23	560.48
225.0	2674.13	2418.19	2165.06	1852.88	1613.25	1276.31	1059.13	832.44	626.34
270.0	2881.69	2592.00	2303.44	2045.25	1770.75	1522.69	1247.06	977.63	752.06
315.0	2803.50	2546.44	2290.50	1971.56	1723.50	1473.75	1100.93	923.63	704.36
360.0	3064.50	2783.25	2495.25	2241.00	1956.94	1684.69	1440.00	1161.00	920.25

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	662.63	443.25	300.94	158.96	73.52	45.79	32.23	22.61	18.39
45.0	648.00	463.50	302.63	142.59	72.23	45.23	32.40	24.24	18.28
90.0	545.91	338.12	203.85	108.34	60.24	41.06	30.09	22.44	17.78
135.0	551.25	338.06	302.06	104.46	53.78	37.58	27.51	21.26	16.76
180.0	384.86	227.19	118.52	65.36	39.94	27.34	20.81	16.65	14.46
225.0	419.63	248.79	137.93	69.13	43.82	29.42	21.26	17.10	14.51
270.0	545.63	332.44	297.00	99.45	48.26	32.91	23.79	18.51	15.13
315.0	505.86	297.00	170.38	86.91	46.69	30.71	22.67	17.66	15.08
360.0	662.63	443.25	300.94	158.96	73.52	45.79	32.23	22.61	18.39

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	15.81	14.12	13.05	12.38	11.87	11.42	10.97	10.63	10.41
45.0	15.64	14.01	12.94	12.15	11.64	11.19	10.86	10.58	10.29
90.0	15.30	13.50	12.54	11.81	11.31	10.86	10.52	10.29	10.01
135.0	14.74	13.28	12.43	11.76	11.19	10.86	10.52	10.24	10.01
180.0	13.05	12.21	11.64	11.19	10.69	10.46	10.18	9.96	9.73
225.0	13.05	12.21	11.64	11.03	10.69	10.41	10.07	9.84	9.73
270.0	13.61	12.60	11.93	11.36	10.86	10.58	10.24	10.01	9.73
315.0	13.78	12.77	12.15	11.53	11.14	10.80	10.52	10.18	9.96
360.0	15.81	14.12	13.05	12.38	11.87	11.42	10.97	10.63	10.41

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	10.18	9.96	9.79	9.68	9.51	9.28	9.28	9.17	8.94
45.0	10.07	9.84	9.73	9.62	9.51	9.28	9.17	9.11	9.00
90.0	9.84	9.68	9.45	9.34	9.28	9.11	9.06	8.94	8.83
135.0	9.84	9.62	9.45	9.34	9.23	9.11	9.00	8.94	8.83
180.0	9.56	9.45	9.23	9.17	9.06	9.00	8.89	8.83	8.78
225.0	9.45	9.34	9.28	9.11	9.00	9.00	8.83	8.83	8.78
270.0	9.56	9.51	9.34	9.23	9.11	9.00	8.94	8.83	8.78
315.0	9.79	9.56	9.39	9.28	9.23	9.06	9.00	8.89	8.83
360.0	10.18	9.96	9.79	9.68	9.51	9.28	9.28	9.17	8.94

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.94	8.83	8.72	8.66	8.61	8.55	8.55	8.44	8.44
45.0	8.89	8.83	8.78	8.72	8.66	8.61	8.55	8.49	8.49
90.0	8.78	8.72	8.66	8.66	8.61	8.49	8.49	8.44	8.44
135.0	8.78	8.66	8.61	8.55	8.55	8.44	8.49	8.38	8.33
180.0	8.66	8.61	8.55	8.55	8.49	8.44	8.38	8.33	8.33
225.0	8.61	8.61	8.49	8.49	8.49	8.38	8.38	8.33	8.27
270.0	8.72	8.66	8.61	8.55	8.55	8.49	8.44	8.44	8.38
315.0	8.78	8.66	8.61	8.61	8.49	8.49	8.38	8.38	8.33
360.0	8.94	8.83	8.72	8.66	8.61	8.55	8.55	8.44	8.44

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.33	8.33	8.27	8.27	8.27	8.21	8.21	8.16	8.16
45.0	8.44	8.38	8.33	8.27	8.27	8.27	8.21	8.16	8.16
90.0	8.38	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33
135.0	8.27	8.27	8.27	8.21	8.21	8.21	8.10	8.16	8.10
180.0	8.27	8.27	8.21	8.16	8.16	8.16	8.16	8.10	8.10
225.0	8.21	8.21	8.21	8.21	8.21	8.16	8.10	8.10	8.10
270.0	8.33	8.33	8.33	8.38	8.38	8.33	8.33	8.38	8.49
315.0	8.27	8.27	8.16	8.21	8.16	8.04	8.10	8.16	8.10
360.0	8.33	8.33	8.27	8.27	8.27	8.21	8.21	8.16	8.16

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.10	8.10	8.10	8.04	8.04	8.04	7.99	7.99	7.99
45.0	8.16	8.10	8.10	8.10	8.04	8.10	8.10	8.04	8.04
90.0	8.38	8.38	8.38	8.38	8.38	8.38	8.38	8.38	8.33
135.0	8.10	8.10	8.04	8.04	8.04	8.04	8.04	7.99	7.99
180.0	8.10	8.04	8.04	8.04	8.04	7.99	7.99	7.93	8.04
225.0	8.04	8.10	8.04	8.04	8.04	8.10	7.99	8.04	8.04
270.0	8.55	8.61	8.61	8.72	8.66	8.72	8.72	8.78	8.72
315.0	8.04	8.04	8.04	8.04	7.99	7.99	7.99	7.99	7.99
360.0	8.10	8.10	8.10	8.04	8.04	8.04	7.99	7.99	7.99

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.99	7.93	7.99	7.99	7.93	7.93	7.93	7.93	7.93
45.0	8.04	8.04	8.04	8.04	8.04	8.04	8.04	7.93	7.99
90.0	8.33	8.38	8.49	8.66	8.38	8.16	7.93	7.93	7.93
135.0	7.99	7.99	7.99	7.99	7.93	7.93	7.93	7.93	7.88
180.0	7.99	7.99	7.99	7.93	7.99	7.93	7.93	7.93	7.88
225.0	8.04	8.04	7.99	7.99	7.99	7.99	7.93	7.99	7.99
270.0	8.72	8.66	8.78	8.94	8.38	7.93	7.88	7.88	7.93
315.0	7.99	7.99	7.99	7.99	7.99	7.99	7.88	7.88	7.88
360.0	7.99	7.93	7.99	7.99	7.93	7.93	7.93	7.93	7.93

Intensity data(cd)

C/γ(°)	90.0
0.0	7.93
45.0	7.99
90.0	7.93
135.0	7.88
180.0	7.93
225.0	7.99
270.0	7.93
315.0	7.88
360.0	7.93