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Nata

Client: NT
LumCAT: 1-1733-LM
Luminaire: 92.70.458.00 LED HOLDER
Report No: 20250927-B006
Ballast type: DC

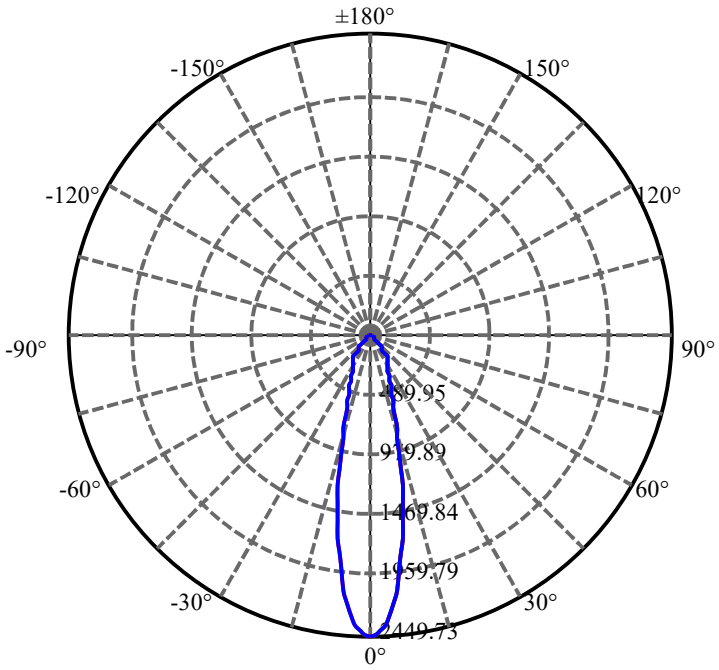
Test No: 20250927-C006	Voltage(V): 34.120
LampCAT: PHILIPS SLM 1202 L06 1313 G8N	Current(A): 0.146
Lamp flux(lm): 850.0	Power (W): 4.981
Number of Lamps: 1	PF: 0.000
Length(mm): 35	Width(mm): 35
Phm Type: C	Height(mm): 15

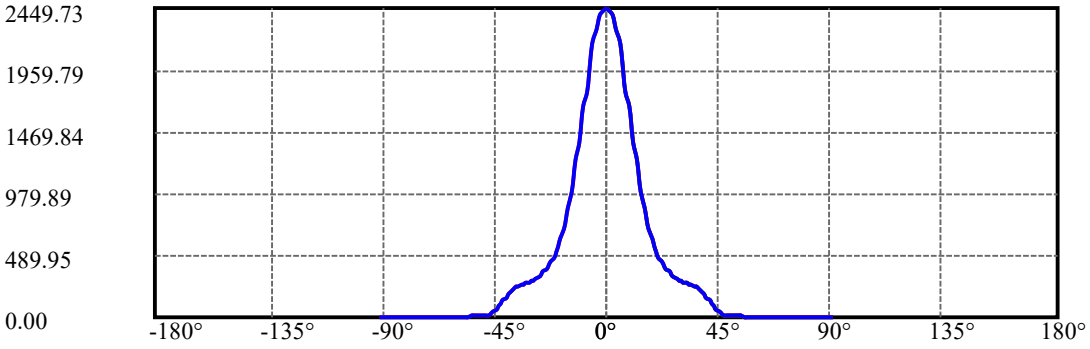
Photometric Results

Lumens(lm): 812.64, Efficiency(%): 95.60% , Luminous Efficacy(lm/W): 163.15
Central intensity(cd): 2449.733, Maximum intensity(cd): 2449.733
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
[C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=70.6
[C90/270]Total=70.6
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.60%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.945%

Equipment: GMS1980	Date: 2025/9/27	Operator: YZQ
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 9.19

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:35.3 Right:35.3
:C90/270Left:35.3 Right:35.3

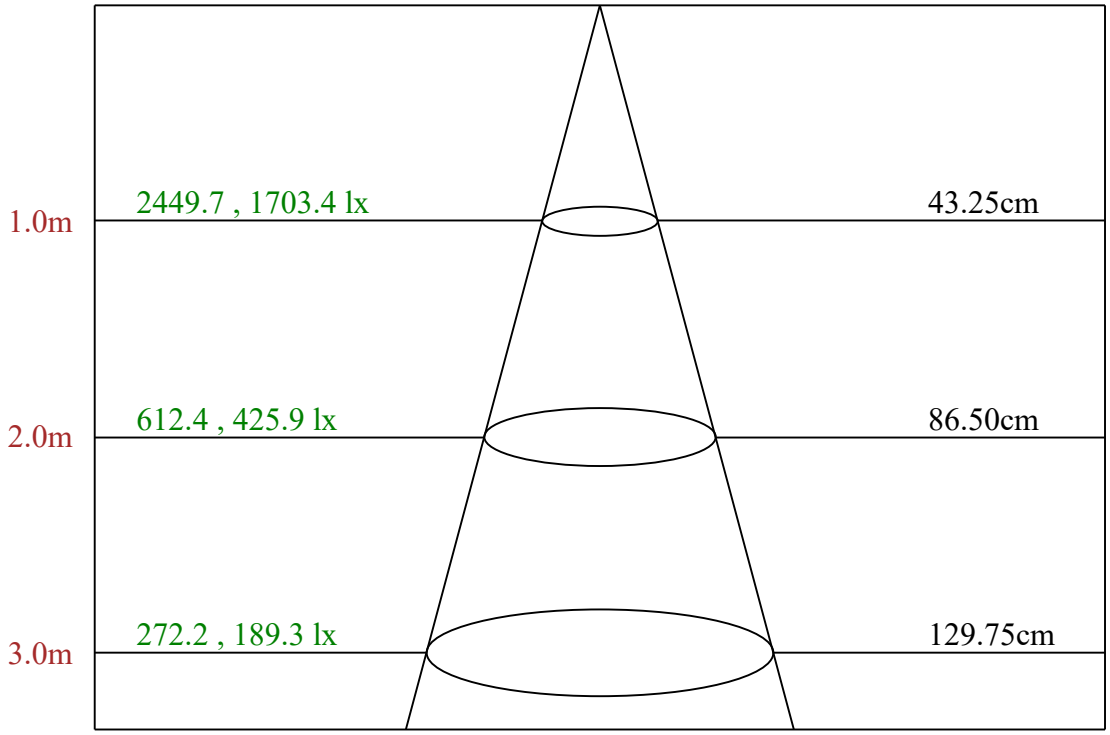
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/9/27
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.19

Lux distance Curve

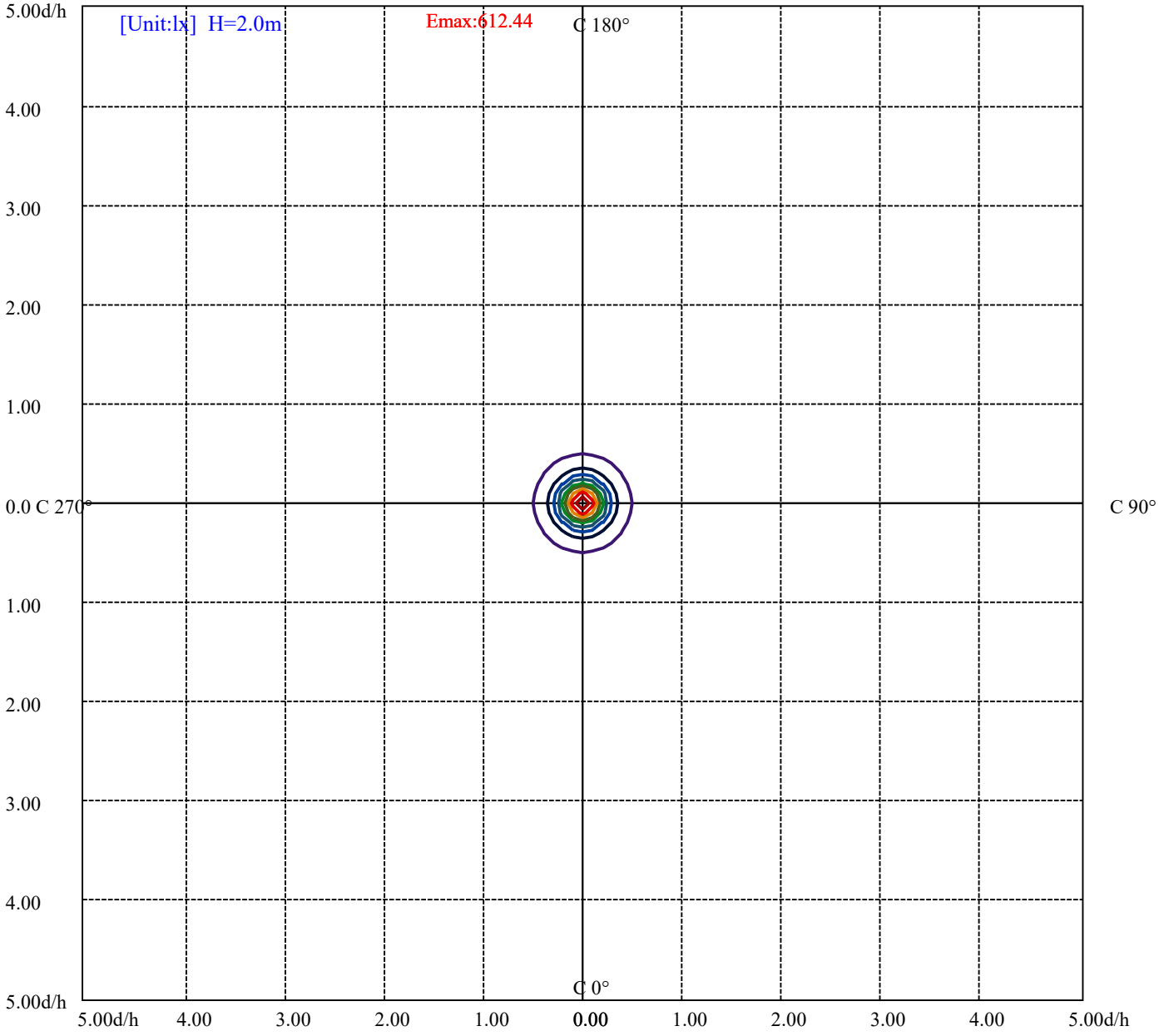


Max , Ave

Beam angle of C0 plane 24.41

NT Nata 1-1733-LM

ISO illuminance diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/9/27
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.19

Luminance Limitting Curve(no luminous side)

Luminance Table

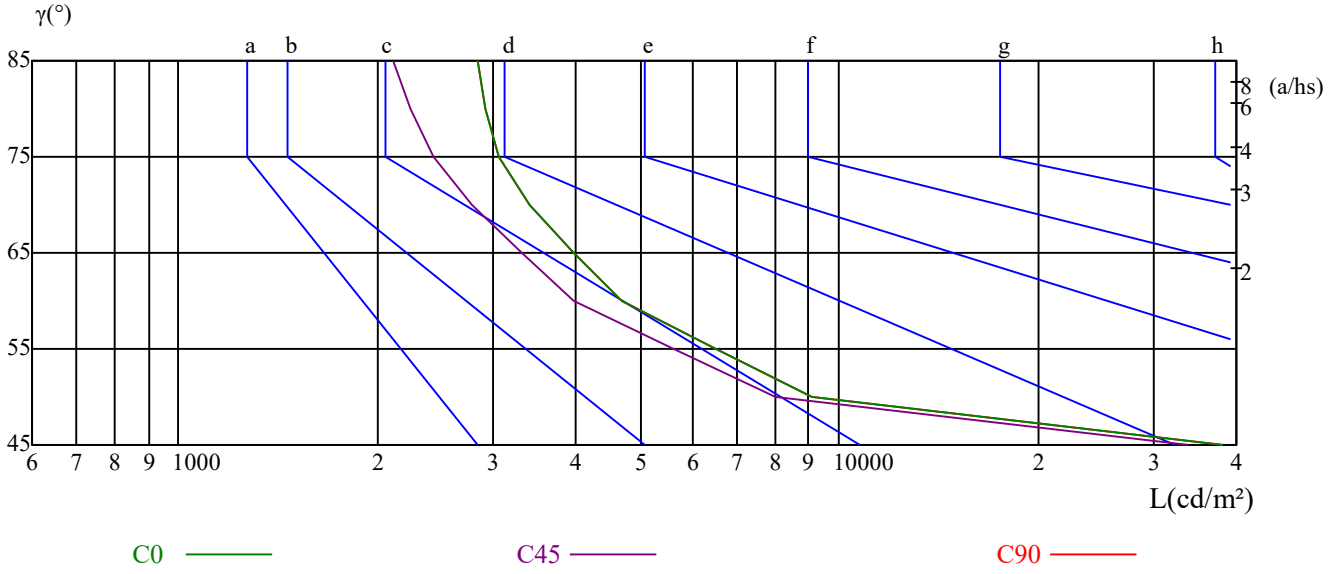
γ	45	50	55	60	65	70	75	80	85
C0	38092	9132	6496	4679	3963	3402	3049	2908	2833
C45	33882	8010	5613	3977	3307	2780	2429	2248	2108
C90	38092	9132	6496	4679	3963	3402	3049	2908	2833

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7606	7606	7606	7925	7925	7925	16711	16711	16711

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

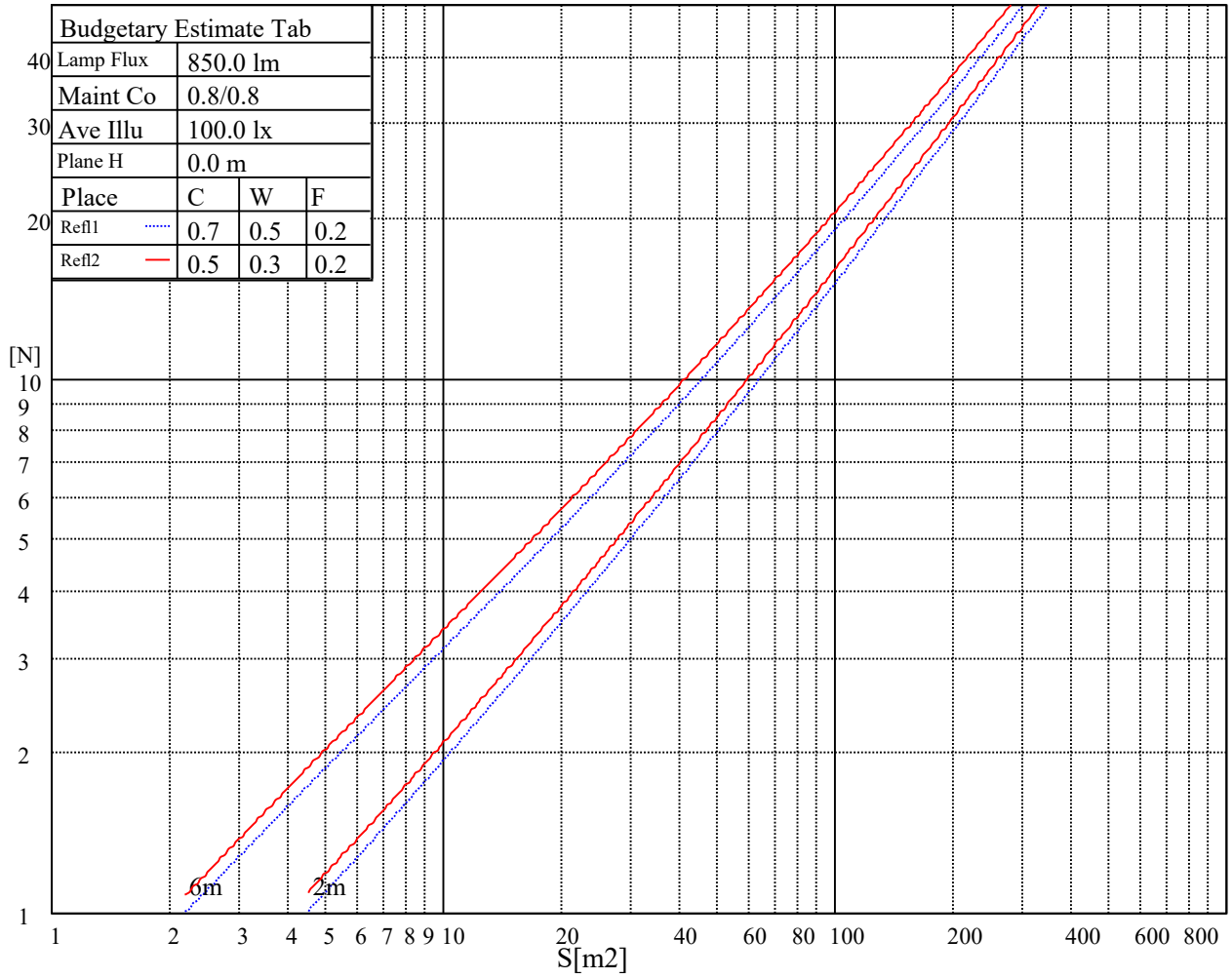


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.61	22.59	21.97	22.90	23.22	20.80	21.78	21.16	22.09	22.41
	3H	21.43	22.30	21.82	22.64	22.99	20.63	21.50	21.02	21.84	22.18
	4H	21.34	22.15	21.74	22.50	22.87	20.55	21.36	20.95	21.71	22.08
	6H	21.28	22.01	21.69	22.39	22.79	20.49	21.23	20.91	21.60	22.00
	8H	21.21	21.92	21.63	22.30	22.71	20.43	21.14	20.85	21.52	21.93
	12H	21.16	21.82	21.58	22.22	22.64	20.38	21.05	20.81	21.44	21.86
4H	2H	21.31	22.12	21.71	22.47	22.84	20.51	21.31	20.91	21.67	22.03
	3H	21.11	21.78	21.53	22.17	22.59	20.32	20.99	20.74	21.38	21.80
	4H	21.06	21.64	21.50	22.06	22.51	20.28	20.86	20.71	21.28	21.73
	6H	20.95	21.46	21.42	21.92	22.37	20.18	20.70	20.66	21.15	21.60
	8H	20.92	21.39	21.40	21.85	22.32	20.16	20.63	20.64	21.09	21.56
	12H	20.89	21.33	21.38	21.78	22.30	20.14	20.58	20.63	21.03	21.55
8H	4H	20.87	21.34	21.35	21.80	22.27	20.09	20.56	20.58	21.02	21.50
	6H	20.76	21.15	21.27	21.63	22.14	20.00	20.39	20.51	20.87	21.38
	8H	20.78	21.11	21.32	21.63	22.13	20.04	20.36	20.57	20.88	21.38
	12H	20.78	21.03	21.32	21.55	22.07	20.04	20.29	20.58	20.81	21.33
12H	4H	20.82	21.25	21.31	21.71	22.23	20.04	20.48	20.53	20.93	21.45
	6H	20.75	21.08	21.29	21.60	22.10	20.00	20.32	20.53	20.84	21.34
	8H	20.74	20.99	21.28	21.51	22.03	20.00	20.25	20.54	20.77	21.29

Variation with the observer position at spacings:		
S = 1.0H	3.7/-10.1	3.7/-10.1
S = 1.5H	6.2/-9.7	6.2/-9.7
S = 2.0H	8.1/-9.1	8.1/-9.1
Standard tables:	BK0	BK0
Uncorrected UGR	1.8	1.8

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

Budgetary Estimate Table



Equipment: GMS1980 Date: 2025/9/27 Operator: YZQ
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.19

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.06	1.04	1.02	1.04	1.02	1.01	1.00	0.99	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.85
3	0.94	0.89	0.86	0.92	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.80
4	0.89	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.75
5	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.74	0.71	0.79	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.68
7	0.76	0.70	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.64
8	0.72	0.67	0.63	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.61
9	0.69	0.64	0.60	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.64	0.60	0.57	0.56

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	2456.07	2472.11	2460.29	2424.82	2359.79	2286.31	2172.30	2055.75	1842.07
45.0	2422.29	2437.49	2429.89	2402.86	2360.63	2298.98	2206.92	2114.02	2010.98
90.0	2448.47	2410.46	2346.27	2279.55	2195.94	2102.20	1974.67	1664.71	1664.71
135.0	2472.11	2445.93	2404.55	2318.40	2246.62	2153.72	2050.68	1906.26	1775.35
180.0	2456.07	2415.53	2363.17	2287.16	2173.14	2070.10	1947.64	1817.58	1642.76
225.0	2422.29	2391.88	2331.92	2268.58	2186.65	2093.75	1960.31	1666.57	1666.57
270.0	2448.47	2462.82	2458.60	2437.49	2385.12	2320.94	2249.99	2154.56	2020.27
315.0	2472.11	2470.43	2450.16	2405.39	2335.30	2254.22	2151.18	1995.78	1679.41
360.0	2456.07	2472.11	2460.29	2424.82	2359.79	2286.31	2172.30	2055.75	1842.07

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1653.31	1616.57	1469.37	1320.22	1176.05	1004.52	883.83	780.63	689.50
45.0	1864.03	1733.97	1603.06	1438.37	1305.78	1177.40	1062.54	931.64	837.89
90.0	1600.61	1436.09	1306.87	1176.64	1057.56	924.88	831.47	732.49	663.91
135.0	1632.62	1452.73	1308.31	1170.65	1036.36	892.79	793.97	687.56	619.99
180.0	1500.02	1356.45	1178.25	1043.96	925.72	798.19	713.74	641.95	571.85
225.0	1536.51	1395.38	1268.19	1113.55	1003.09	906.38	797.94	723.87	657.74
270.0	1898.66	1771.97	1603.06	1470.47	1336.18	1208.65	1062.54	956.97	862.38
315.0	1679.41	1562.35	1377.48	1228.75	1089.15	963.56	828.85	734.77	655.21
360.0	1653.31	1616.57	1469.37	1320.22	1176.05	1004.52	883.83	780.63	689.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	600.65	543.14	496.01	449.81	420.51	389.26	370.34	354.38	337.15
45.0	757.66	685.02	606.48	554.96	510.20	462.06	427.43	427.43	365.86
90.0	603.27	540.86	495.17	459.10	426.25	390.78	366.03	343.65	320.85
135.0	563.41	505.13	467.97	435.88	428.28	395.42	359.02	341.29	327.86
180.0	522.02	484.86	452.77	431.66	431.66	372.28	353.87	333.60	320.00
225.0	599.72	541.11	500.06	463.83	434.10	401.84	378.53	358.94	337.23
270.0	774.55	681.65	618.30	550.74	505.98	466.28	432.50	432.50	370.85
315.0	590.60	524.22	480.56	433.43	403.02	375.24	349.65	332.67	319.16
360.0	600.65	543.14	496.01	449.81	420.51	389.26	370.34	354.38	337.15

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	325.83	315.87	307.42	298.64	291.96	285.04	279.30	270.85	264.60
45.0	344.67	320.93	306.91	294.84	285.63	277.78	272.46	267.56	263.08
90.0	304.97	292.13	281.75	269.33	261.22	255.82	249.48	241.63	228.45
135.0	311.90	301.76	293.40	285.80	281.24	276.68	270.68	264.77	255.14
180.0	307.76	295.77	287.57	278.11	272.29	266.71	260.88	253.28	242.90
225.0	322.54	307.34	295.77	289.01	279.80	272.71	265.87	258.10	242.47
270.0	342.98	322.88	306.83	292.56	280.14	266.29	257.08	249.31	241.71
315.0	302.86	291.37	282.59	274.99	267.81	263.76	261.14	256.32	250.07
360.0	325.83	315.87	307.42	298.64	291.96	285.04	279.30	270.85	264.60

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	257.17	244.33	227.95	203.79	183.44	161.06	137.33	107.17	84.12
45.0	256.07	246.61	233.69	217.73	189.60	167.48	140.20	115.37	90.87
90.0	212.74	195.01	175.92	154.64	128.80	108.70	88.68	65.12	48.65
135.0	241.54	219.16	199.06	177.27	154.72	125.92	104.98	84.03	58.53
180.0	228.62	203.88	182.76	159.62	136.14	107.17	83.95	62.50	39.61
225.0	226.17	207.59	187.58	159.12	135.30	111.31	83.78	62.92	41.47
270.0	234.70	220.26	205.23	186.56	167.65	144.59	125.00	105.65	86.99
315.0	243.40	231.33	210.04	191.63	166.46	144.50	121.95	100.76	75.17
360.0	257.17	244.33	227.95	203.79	183.44	161.06	137.33	107.17	84.12

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	62.41	43.33	25.34	17.14	11.32	9.71	9.04	8.61	7.94
45.0	64.61	46.96	31.84	21.45	13.26	11.74	11.32	10.89	10.22
90.0	33.95	23.06	14.86	12.67	11.65	10.89	10.13	9.29	8.45
135.0	41.72	24.75	16.30	11.23	10.30	9.97	9.54	9.04	8.36
180.0	26.01	17.31	10.13	8.95	8.61	8.19	7.77	7.35	6.67
225.0	28.12	19.68	13.60	11.40	10.98	10.56	9.97	9.12	8.45
270.0	64.52	49.32	34.88	24.24	16.22	13.77	12.67	11.65	10.73
315.0	55.74	38.93	23.65	16.30	12.67	12.08	11.57	10.89	10.22
360.0	62.41	43.33	25.34	17.14	11.32	9.71	9.04	8.61	7.94

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.52	6.93	5.83	5.41	5.07	4.81	4.48	4.31	4.05
45.0	9.46	8.61	7.35	6.84	6.25	5.83	5.41	5.07	4.65
90.0	7.43	6.84	6.33	5.91	5.49	5.15	4.81	4.48	4.31
135.0	7.69	6.84	6.42	5.91	5.66	5.32	4.98	4.81	4.65
180.0	5.83	5.32	5.07	4.81	4.48	4.31	4.14	3.97	3.88
225.0	7.43	6.76	6.17	5.83	5.32	4.98	4.65	4.39	4.22
270.0	9.71	8.95	7.85	6.93	6.42	6.08	5.66	5.24	4.90
315.0	9.37	8.61	7.60	7.09	6.67	6.33	5.83	5.49	5.24
360.0	7.52	6.93	5.83	5.41	5.07	4.81	4.48	4.31	4.05

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.88	3.72	3.63	3.46	3.29	3.21	3.04	2.87	2.79
45.0	4.39	4.22	4.05	3.80	3.72	3.55	3.38	3.21	3.04
90.0	4.05	3.97	3.80	3.63	3.46	3.38	3.21	3.12	3.04
135.0	4.48	4.39	4.22	4.05	3.88	3.72	3.55	3.29	3.04
180.0	3.72	3.72	3.63	3.55	3.38	3.29	3.21	3.12	2.96
225.0	4.05	3.88	3.63	3.55	3.38	3.21	3.04	2.87	2.79
270.0	4.65	4.39	4.14	3.97	3.80	3.63	3.46	3.38	3.29
315.0	4.98	4.65	4.39	4.14	3.88	3.55	3.29	2.96	2.79
360.0	3.88	3.72	3.63	3.46	3.29	3.21	3.04	2.87	2.79

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.70	2.62	2.53	2.45	2.36	2.28	2.28	2.20	2.11
45.0	2.79	2.53	2.45	2.28	2.28	2.20	2.11	2.03	2.03
90.0	2.96	2.87	2.70	2.62	2.62	2.45	2.45	2.28	2.20
135.0	2.87	2.70	2.62	2.62	2.53	2.45	2.36	2.36	2.20
180.0	2.87	2.79	2.70	2.62	2.53	2.45	2.36	2.28	2.11
225.0	2.62	2.53	2.45	2.36	2.36	2.28	2.20	2.11	2.03
270.0	3.12	3.12	2.96	2.87	2.79	2.70	2.53	2.53	2.36
315.0	2.53	2.36	2.28	2.28	2.20	2.11	2.11	2.03	1.94
360.0	2.70	2.62	2.53	2.45	2.36	2.28	2.28	2.20	2.11

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.03	2.03	1.94	1.94	1.86	1.86	1.77	1.77	1.69
45.0	1.94	1.94	1.86	1.86	1.86	1.77	1.69	1.60	1.60
90.0	2.11	2.03	1.94	1.86	1.69	1.60	1.52	1.52	1.44
135.0	2.11	2.11	2.03	1.94	1.86	1.69	1.60	1.52	1.44
180.0	2.11	1.94	1.94	1.94	1.77	1.77	1.69	1.60	1.52
225.0	2.03	1.94	1.86	1.69	1.69	1.60	1.52	1.52	1.44
270.0	2.36	2.20	2.03	2.03	1.86	1.69	1.69	1.52	1.44
315.0	1.86	1.86	1.77	1.77	1.69	1.60	1.60	1.52	1.52
360.0	2.03	2.03	1.94	1.94	1.86	1.86	1.77	1.77	1.69

Intensity data(cd)

C/γ(°)	90.0
0.0	1.60
45.0	1.52
90.0	1.44
135.0	1.52
180.0	1.52
225.0	1.44
270.0	1.44
315.0	1.44
360.0	1.60