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NT

Client:

LumCAT: 3-2807-L

Luminaire: 92.70.411.00

Report No: 2024417-B006

Ballast type: AC

Test No: 2024417-C006

Voltage(V): 33.840

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.577

Lamp flux(lm): 2629.0

Power (W): 19.525

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2199.12, Efficiency(%): 83.65% , Luminous Efficacy(lm/W): 112.63

Central intensity(cd): 4992.906, Maximum intensity(cd): 4992.906

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.6

[C90/270]Total=35.6

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0\_180=0.58 C90\_270=0.58

Maximum s/h(1/4): C0\_180=0.60 C90\_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.65%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.529%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/17  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4992.906	0.000	0	0.00%	0.00%
1.0	4984.347	4.774	4.774	0.18%	0.22%
2.0	4960.791	14.274	19.048	0.54%	0.87%
3.0	4921.947	23.636	42.684	0.90%	1.94%
4.0	4873.812	32.790	75.474	1.25%	3.43%
5.0	4807.901	41.650	117.124	1.58%	5.33%
6.0	4712.290	50.031	167.155	1.90%	7.60%
7.0	4601.536	57.811	224.966	2.20%	10.23%
8.0	4456.327	64.825	289.791	2.47%	13.18%
9.0	4295.829	70.931	360.723	2.70%	16.40%
10.0	4117.116	76.134	436.857	2.90%	19.87%
11.0	3922.602	80.333	517.19	3.06%	23.52%
12.0	3723.479	83.583	600.773	3.18%	27.32%
13.0	3523.259	86.001	686.773	3.27%	31.23%
14.0	3295.022	87.273	774.047	3.32%	35.20%
15.0	3092.095	87.685	861.732	3.34%	39.19%
16.0	2874.830	87.432	949.164	3.33%	43.16%
17.0	2661.589	86.217	1035.381	3.28%	47.08%
18.0	2457.638	84.405	1119.786	3.21%	50.92%
19.0	2260.124	82.079	1201.866	3.12%	54.65%
20.0	2065.171	79.165	1281.03	3.01%	58.25%
21.0	1898.382	76.108	1357.139	2.89%	61.71%
22.0	1729.764	72.909	1430.048	2.77%	65.03%
23.0	1582.580	69.502	1499.55	2.64%	68.19%
24.0	1385.081	64.884	1564.433	2.47%	71.14%
25.0	1263.413	60.221	1624.654	2.29%	73.88%
26.0	1180.691	57.693	1682.348	2.19%	76.50%
27.0	1072.147	55.116	1737.464	2.10%	79.01%
28.0	968.584	51.667	1789.131	1.97%	81.36%
29.0	872.570	48.170	1837.301	1.83%	83.55%
30.0	750.844	43.832	1881.133	1.67%	85.54%
31.0	643.126	38.792	1919.925	1.48%	87.30%
32.0	534.142	33.727	1953.652	1.28%	88.84%
33.0	432.884	28.489	1982.141	1.08%	90.13%
34.0	339.774	23.383	2005.524	0.89%	91.20%
35.0	260.023	18.627	2024.151	0.71%	92.04%
36.0	223.951	15.410	2039.561	0.59%	92.74%
37.0	138.625	11.825	2051.386	0.45%	93.28%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	97.316	7.875	2059.262	0.30%	93.64%
39.0	84.463	6.205	2065.466	0.24%	93.92%
40.0	77.125	5.636	2071.102	0.21%	94.18%
41.0	70.688	5.264	2076.366	0.20%	94.42%
42.0	65.399	4.944	2081.31	0.19%	94.64%
43.0	60.841	4.676	2085.986	0.18%	94.86%
44.0	57.162	4.454	2090.44	0.17%	95.06%
45.0	53.607	4.257	2094.697	0.16%	95.25%
46.0	50.739	4.081	2098.778	0.16%	95.44%
47.0	48.113	3.932	2102.709	0.15%	95.62%
48.0	45.926	3.802	2106.511	0.14%	95.79%
49.0	43.928	3.690	2110.201	0.14%	95.96%
50.0	42.129	3.588	2113.789	0.14%	96.12%
51.0	40.498	3.496	2117.285	0.13%	96.28%
52.0	38.976	3.410	2120.695	0.13%	96.43%
53.0	37.535	3.328	2124.023	0.13%	96.59%
54.0	36.152	3.248	2127.271	0.12%	96.73%
55.0	34.726	3.164	2130.435	0.12%	96.88%
56.0	33.277	3.073	2133.508	0.12%	97.02%
57.0	31.822	2.976	2136.484	0.11%	97.15%
58.0	30.271	2.871	2139.355	0.11%	97.28%
59.0	28.874	2.765	2142.12	0.11%	97.41%
60.0	27.469	2.662	2144.782	0.10%	97.53%
61.0	26.057	2.554	2147.337	0.10%	97.65%
62.0	24.718	2.447	2149.783	0.09%	97.76%
63.0	23.643	2.352	2152.135	0.09%	97.86%
64.0	22.429	2.261	2154.396	0.09%	97.97%
65.0	21.456	2.172	2156.568	0.08%	98.07%
66.0	20.666	2.102	2158.67	0.08%	98.16%
67.0	20.095	2.050	2160.719	0.08%	98.25%
68.0	19.547	2.008	2162.727	0.08%	98.35%
69.0	19.232	1.978	2164.706	0.08%	98.44%
70.0	19.151	1.971	2166.677	0.07%	98.52%
71.0	19.151	1.980	2168.657	0.08%	98.61%
72.0	19.378	2.003	2170.66	0.08%	98.71%
73.0	19.590	2.038	2172.698	0.08%	98.80%
74.0	19.759	2.069	2174.766	0.08%	98.89%
75.0	19.671	2.083	2176.85	0.08%	98.99%

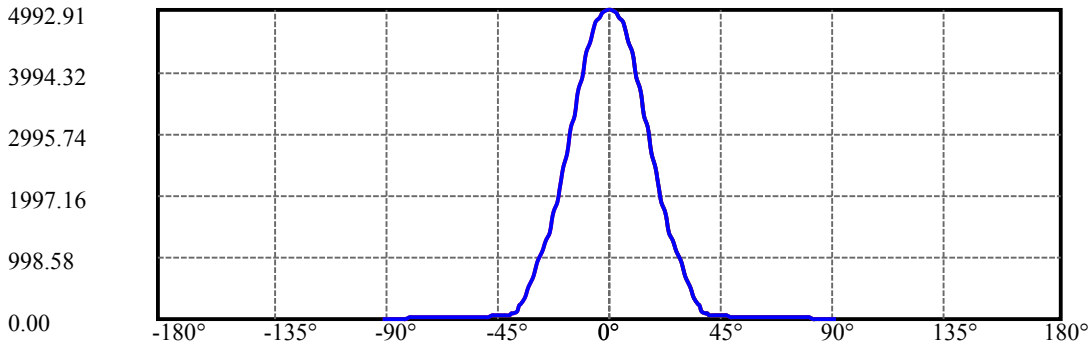
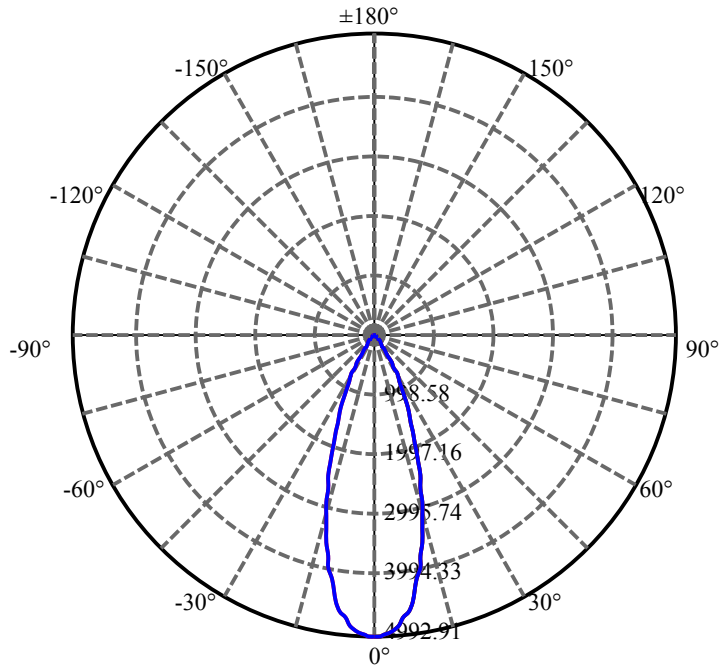
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.444	2.076	2178.926	0.08%	99.08%
77.0	19.071	2.053	2180.98	0.08%	99.18%
78.0	18.596	2.016	2182.996	0.08%	99.27%
79.0	17.805	1.956	2184.952	0.07%	99.36%
80.0	16.489	1.849	2186.801	0.07%	99.44%
81.0	14.675	1.685	2188.486	0.06%	99.52%
82.0	12.824	1.491	2189.977	0.06%	99.58%
83.0	11.551	1.325	2191.302	0.05%	99.64%
84.0	11.156	1.237	2192.539	0.05%	99.70%
85.0	10.710	1.193	2193.732	0.05%	99.76%
86.0	10.256	1.146	2194.878	0.04%	99.81%
87.0	9.803	1.098	2195.976	0.04%	99.86%
88.0	9.627	1.064	2197.041	0.04%	99.91%
89.0	9.429	1.045	2198.085	0.04%	99.95%
90.0	9.429	1.034	2199.119	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1881.13	71.55%	85.54%
0-40	2071.10	78.78%	94.18%
0-60	2144.78	81.58%	97.53%
0-90	2198.09	83.61%	99.95%
0-120	2198.09	83.61%	99.95%
0-180	2199.12	83.65%	100.00%
60-90	53.30	2.03%	2.42%
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%
0-27.42	1759.30	66.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	436.86
10-20	844.17
20-30	600.10
30-40	189.97
40-50	42.69
50-60	30.99
60-70	21.89
70-80	20.12
80-90	11.28
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: —————

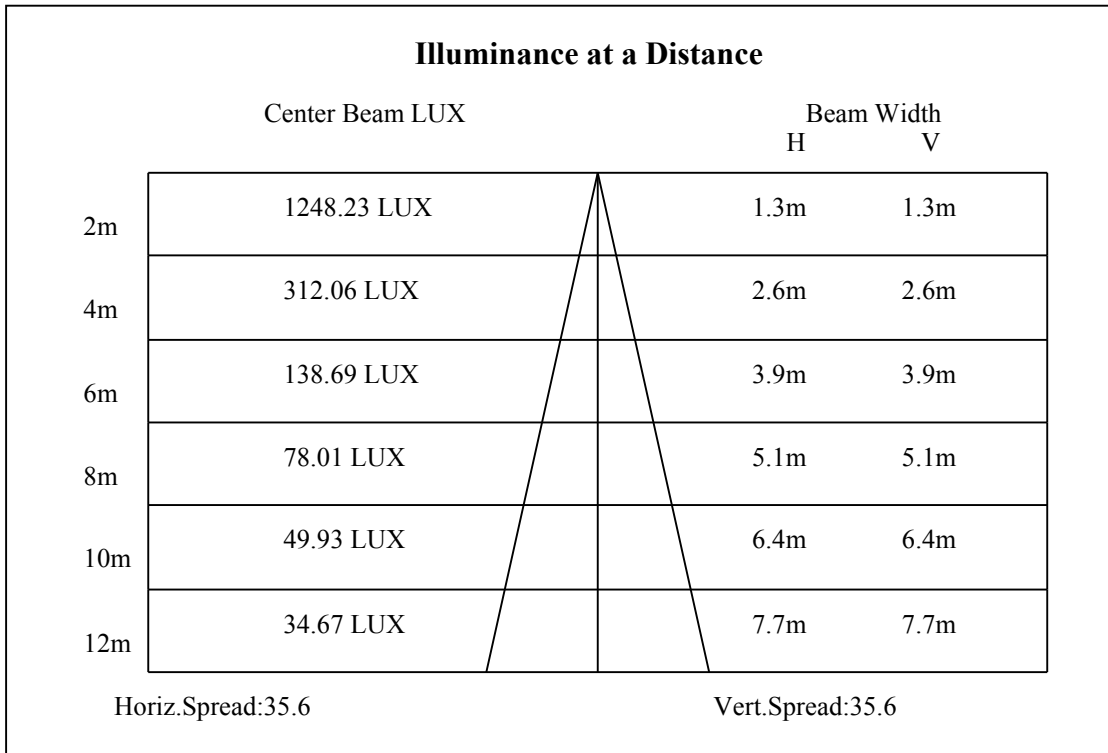
C90/C270: —————

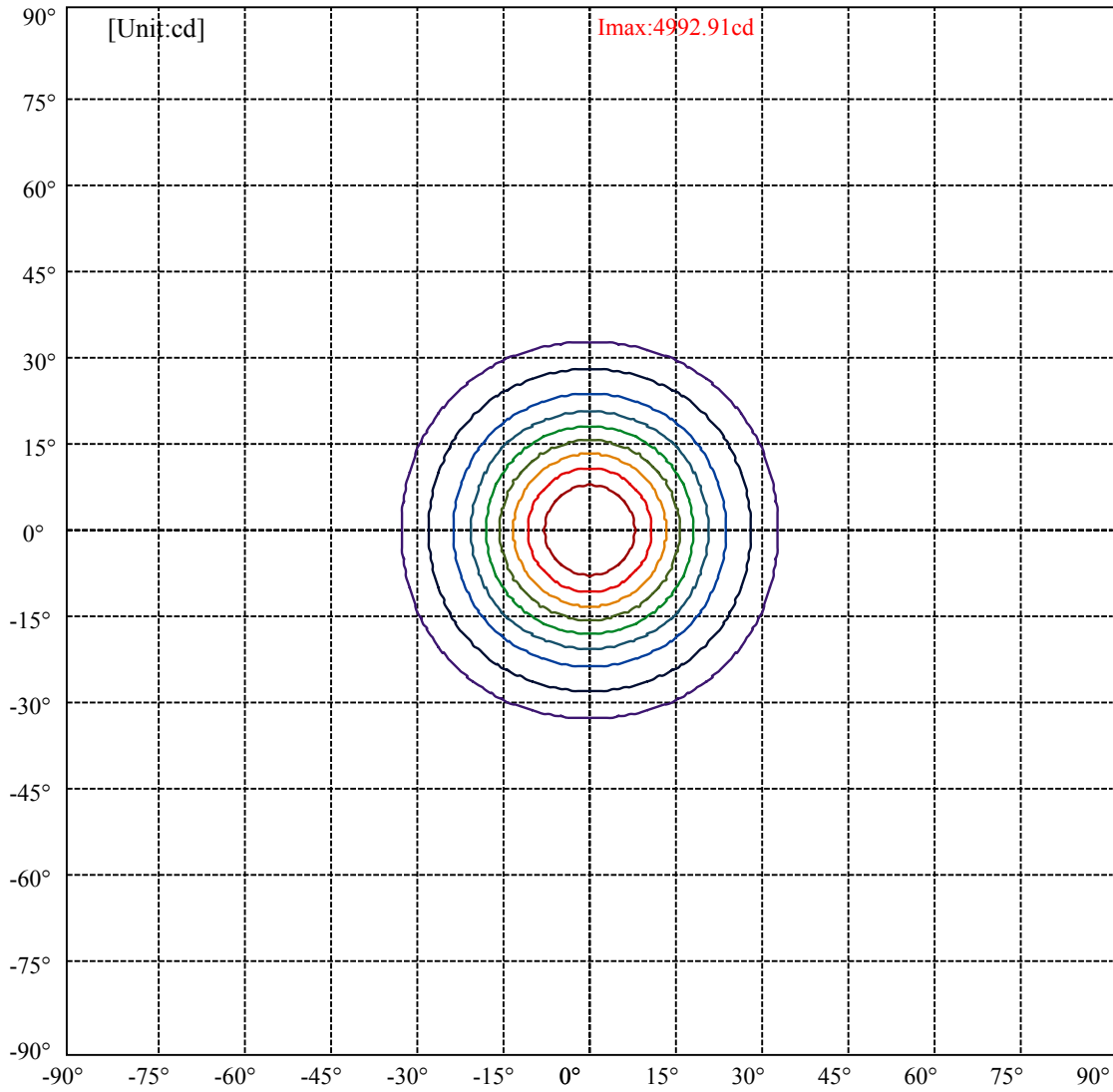
Field angle(10%Imax):C0/180Left:32.3 Right:32.3

:C90/270Left:32.3 Right:32.3

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

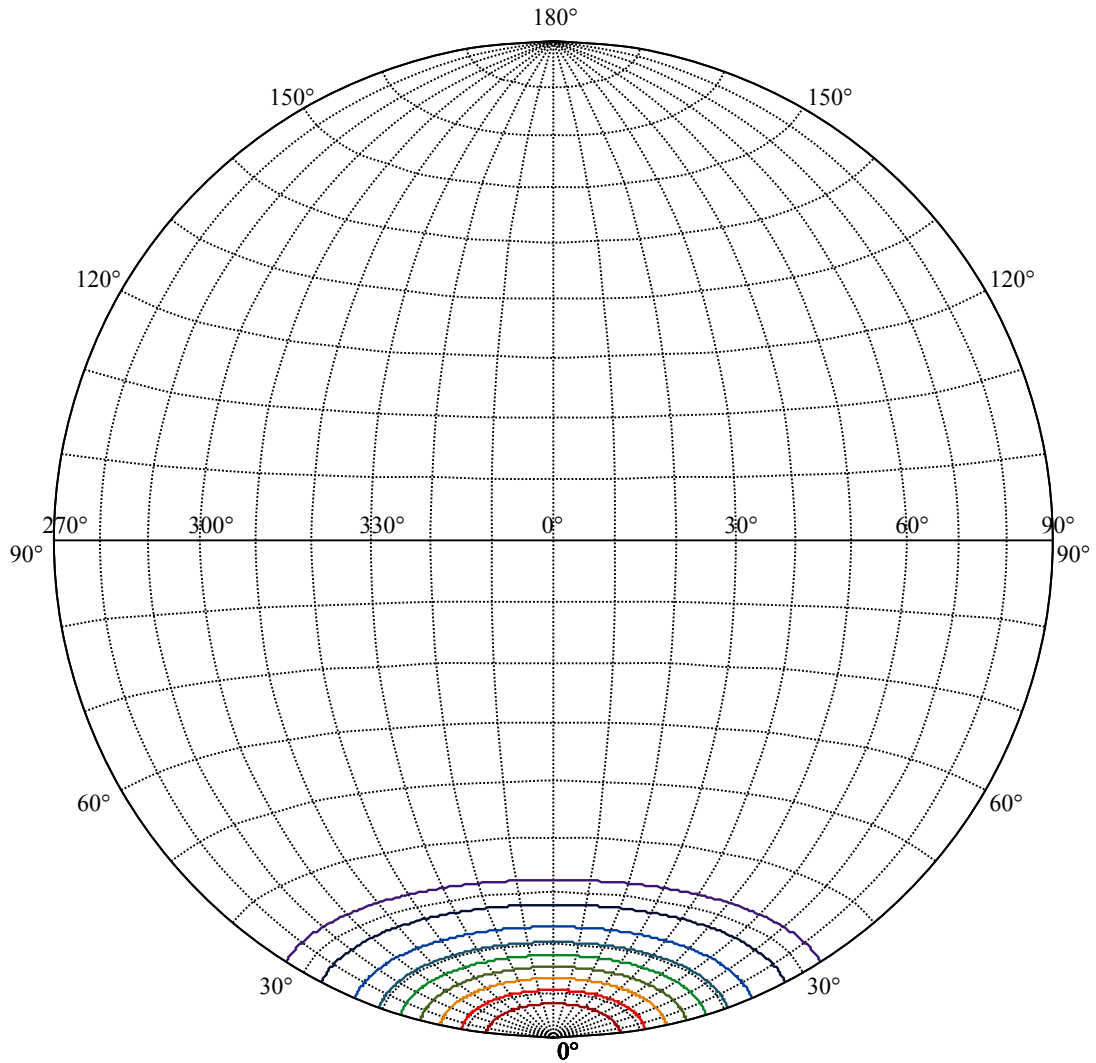
:C90/270Left:17.8 Right:17.8





(10%Imax) 499.291	—
(20%Imax) 998.581	—
(30%Imax) 1497.87	—
(40%Imax) 1997.16	—
(50%Imax) 2496.45	—
(60%Imax) 2995.74	—
(70%Imax) 3495.03	—
(80%Imax) 3994.32	—
(90%Imax) 4493.62	—





House

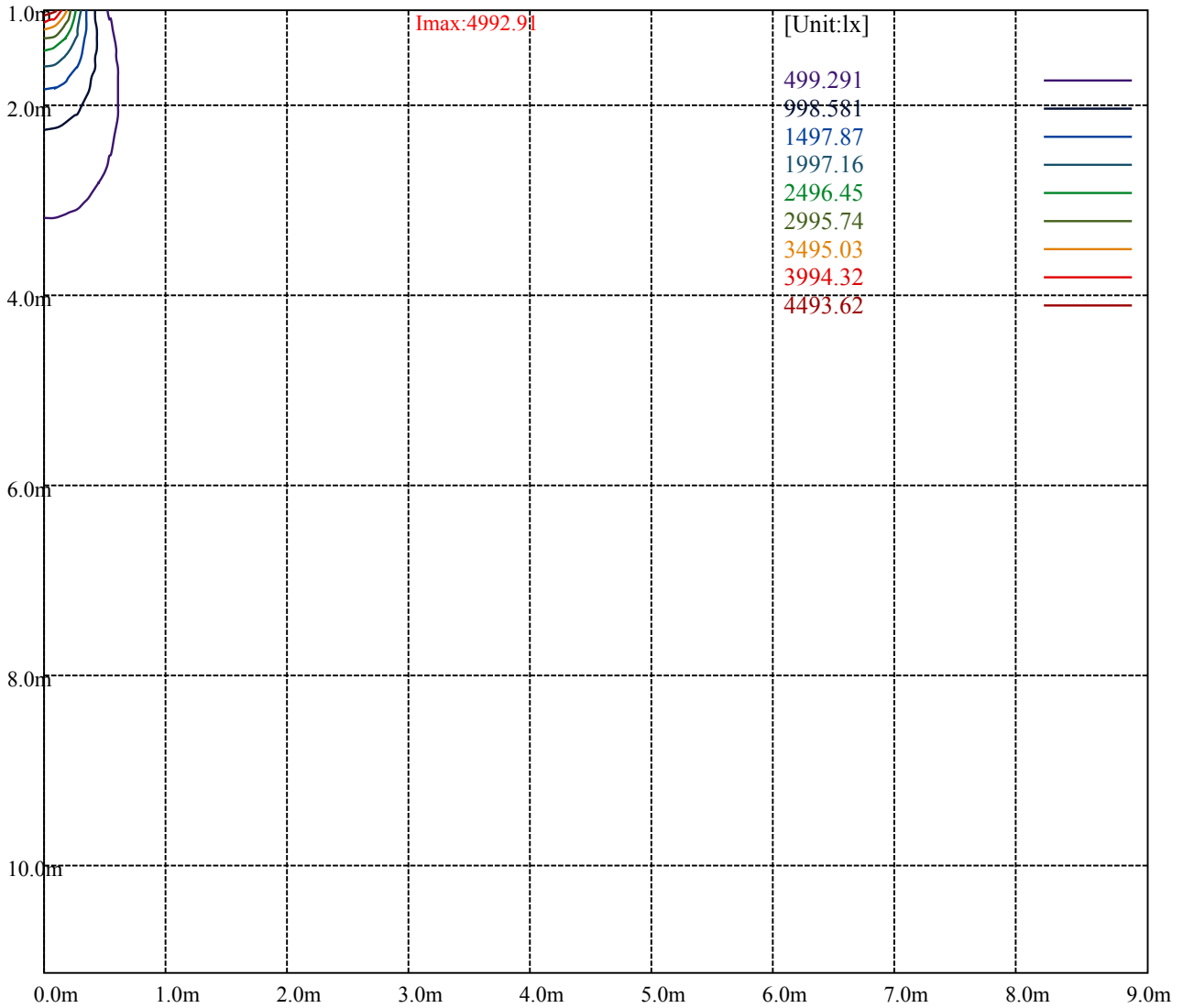
[Unit:cd]

Road

Imax:4992.91

(10%Imax)	499.291	—
(20%Imax)	998.581	—
(30%Imax)	1497.87	—
(40%Imax)	1997.16	—
(50%Imax)	2496.45	—
(60%Imax)	2995.74	—
(70%Imax)	3495.03	—
(80%Imax)	3994.32	—
(90%Imax)	4493.62	—





Luminance Table

$\gamma$	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

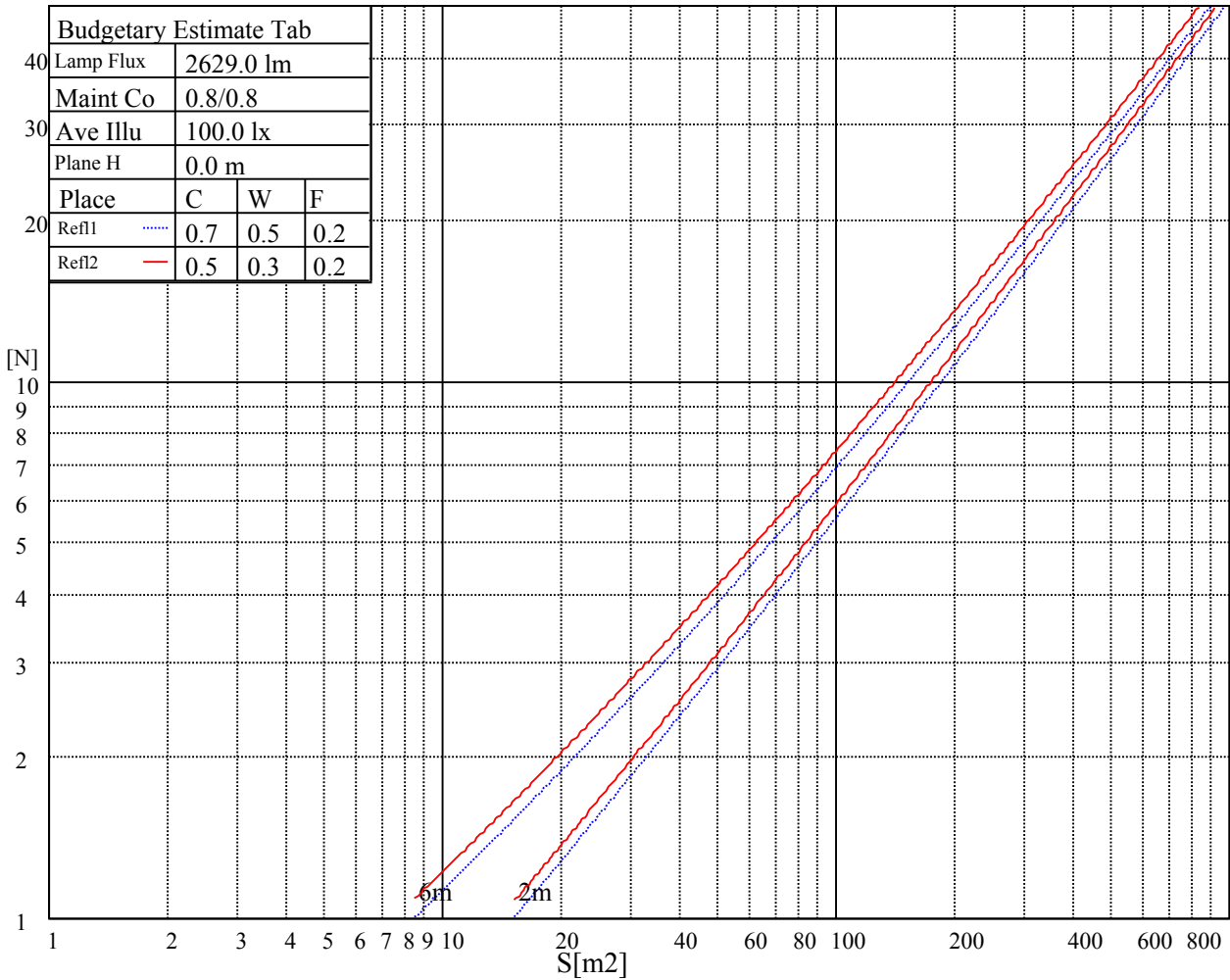
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

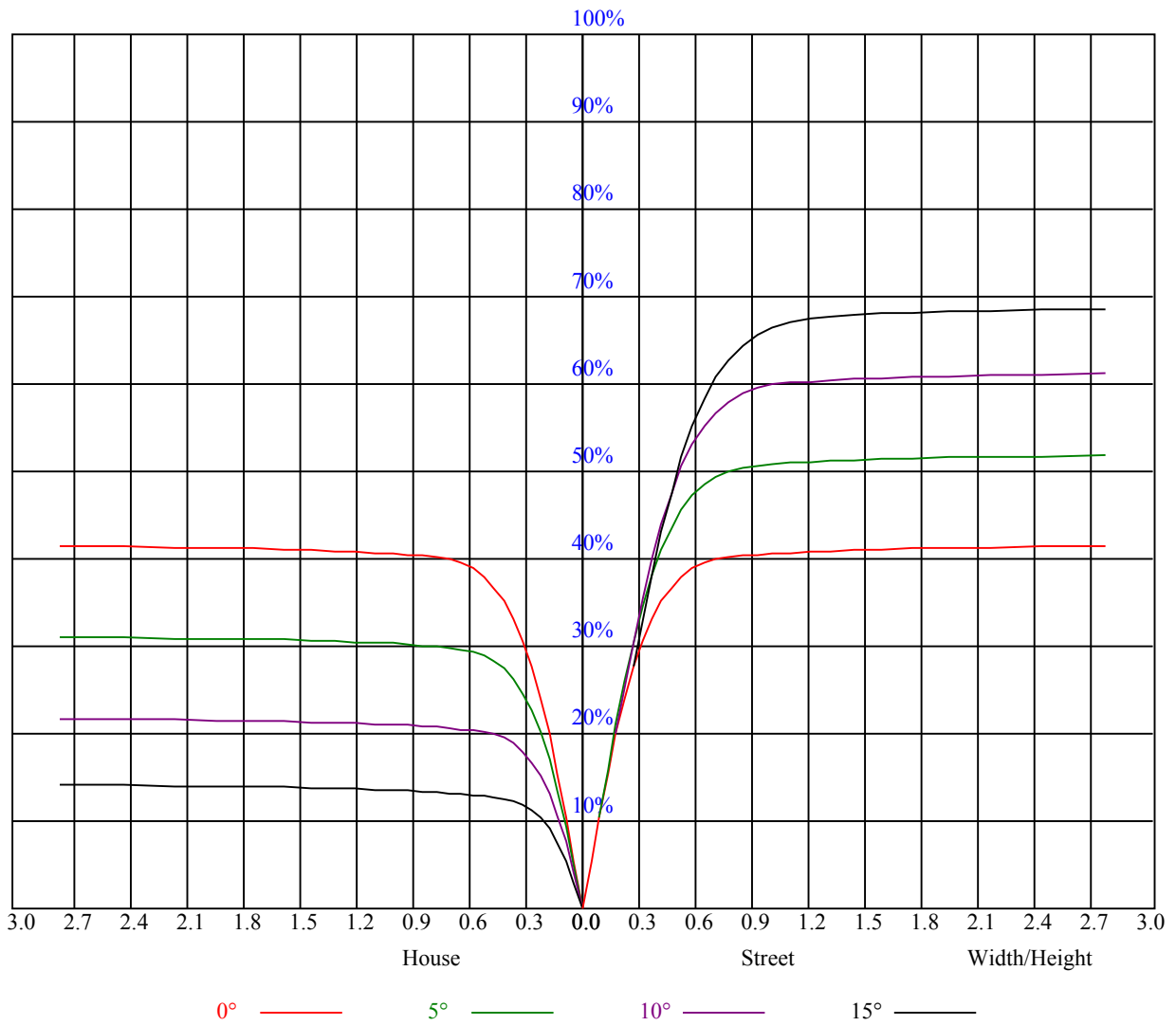


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:										
S = 1.0H	非数字/非数字					非数字/非数字				
S = 1.5H	非数字/非数字					非数字/非数字				
S = 2.0H	非数字/非数字					非数字/非数字				
Standard tables:	BK0					BK0				
Uncorrected UGR	负无穷大					负无穷大				

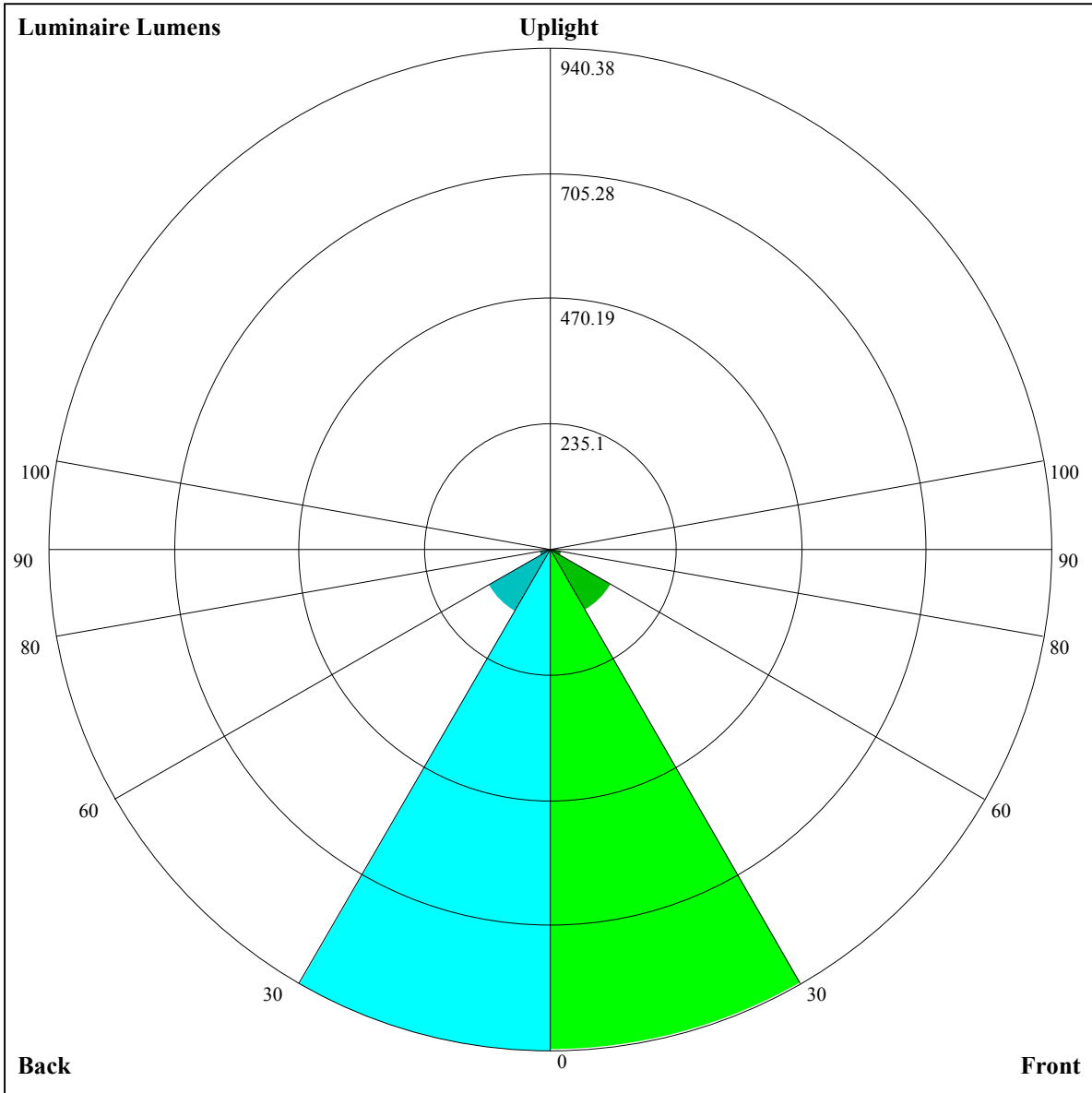
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOF=20 CU															
0	1.00	1.00	1.00	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.84
1	0.93	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.87	0.84	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.77	0.78	0.77	0.76	0.74
3	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.70
4	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.69	0.67	0.65	0.64
6	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.55
9	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51







Luminaire Lumens:

FL=938.64,FM=131.04,FH=20.99,FVH=6.17

BL=940.38,BM=133.13,BH=20.88,BVH=6.23

UL=0,UH=0

BUG Rating:B2-U0-G0

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	5001.39	4989.69	4970.96	4928.24	4884.35	4820.56	4698.83	4586.47	4450.69
45.0	4989.69	4993.20	4985.59	4958.67	4931.16	4885.52	4828.16	4725.75	4609.29
90.0	4987.93	4966.28	4936.43	4891.37	4837.53	4752.09	4661.96	4543.16	4413.24
135.0	4992.61	4993.78	4969.20	4925.90	4887.27	4833.43	4757.94	4666.64	4520.92
180.0	5001.39	4989.69	4961.01	4926.48	4870.89	4807.10	4725.17	4613.97	4461.23
225.0	4989.69	4965.69	4921.22	4877.91	4818.80	4748.57	4612.80	4486.98	4303.22
270.0	4987.93	4995.54	4974.47	4948.14	4908.93	4838.11	4760.28	4663.72	4511.56
315.0	4992.61	4980.91	4967.45	4918.87	4851.57	4777.84	4653.18	4525.60	4380.47
360.0	5001.39	4989.69	4970.96	4928.24	4884.35	4820.56	4698.83	4586.47	4450.69
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4288.00	4073.22	3891.80	3695.17	3501.46	3246.89	3046.15	2841.33	2594.95
45.0	4435.48	4268.10	4101.32	3877.76	3687.56	3489.17	3283.17	3032.69	2834.30
90.0	4216.60	4045.72	3858.45	3672.93	3422.45	3224.65	2984.12	2787.49	2593.78
135.0	4383.39	4227.14	4023.48	3843.82	3658.89	3420.70	3226.99	2984.12	2788.07
180.0	4312.00	4149.89	3929.26	3743.16	3551.20	3310.09	3116.38	2919.75	2680.39
225.0	4138.77	3953.25	3720.33	3528.38	3331.74	3084.19	2889.90	2692.68	2503.65
270.0	4372.86	4218.95	4040.45	3808.12	3608.56	3407.24	3207.68	2954.86	2756.47
315.0	4219.53	4000.66	3815.73	3618.50	3424.21	3177.25	2982.37	2785.73	2541.11
360.0	4288.00	4073.22	3891.80	3695.17	3501.46	3246.89	3046.15	2841.33	2594.95
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2401.24	2174.75	2002.11	1845.27	1660.34	1518.13	1292.82	1147.68	1147.68
45.0	2628.30	2436.35	2208.70	2038.98	1880.39	1695.46	1556.76	1425.67	1268.24
90.0	2366.71	2189.97	2017.91	1860.49	1674.39	1541.54	1413.38	1146.40	1146.40
135.0	2592.02	2404.75	2182.95	2015.57	1850.54	1703.65	1533.35	1404.01	1275.26
180.0	2492.53	2300.58	2085.22	1925.45	1760.42	1629.32	1486.53	1333.79	1212.06
225.0	2269.56	2091.07	1924.86	1771.53	1595.97	1463.12	1151.37	1151.37	1074.71
270.0	2561.00	2311.11	2137.89	1935.98	1767.44	1636.93	1494.72	1346.66	1219.08
315.0	2349.74	2172.41	1961.73	1793.77	1648.64	1472.48	1151.72	1151.72	1102.10
360.0	2401.24	2174.75	2002.11	1845.27	1660.34	1518.13	1292.82	1147.68	1147.68
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1032.75	936.71	837.81	727.32	603.25	508.50	415.10	308.71	228.47
45.0	1154.12	1038.25	948.71	848.05	743.88	616.30	517.98	423.18	334.22
90.0	1051.65	960.47	873.51	737.50	633.97	507.98	410.94	317.60	218.05
135.0	1160.56	1038.83	952.22	824.64	721.06	620.40	497.50	405.03	320.18
180.0	1107.89	999.04	908.91	760.27	660.78	557.78	438.98	352.95	296.18
225.0	967.90	870.58	770.86	664.70	544.90	449.92	361.84	282.20	191.95
270.0	1114.33	1016.59	904.82	795.38	688.28	560.70	459.46	366.41	300.28
315.0	987.98	888.20	783.73	648.90	548.88	451.56	361.26	262.12	190.84
360.0	1032.75	936.71	837.81	727.32	603.25	508.50	415.10	308.71	228.47
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	159.82	105.87	92.00	81.46	75.38	69.93	65.37	60.57	57.18
45.0	313.15	217.35	113.88	93.11	84.51	75.79	70.29	64.55	60.69
90.0	152.22	109.79	90.42	79.77	73.50	68.30	63.73	58.99	55.71
135.0	300.86	209.57	113.12	93.81	84.80	76.55	71.16	66.48	62.38
180.0	296.18	144.38	102.24	89.95	81.17	74.73	67.59	62.97	58.99
225.0	135.25	102.30	89.19	78.60	72.10	65.49	60.98	57.35	53.20
270.0	300.28	124.30	91.94	82.58	75.08	69.35	62.91	59.05	55.54
315.0	133.84	95.45	85.74	76.43	70.46	65.37	61.16	56.77	53.61
360.0	159.82	105.87	92.00	81.46	75.38	69.93	65.37	60.57	57.18

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	54.07	51.32	48.28	46.29	44.48	42.66	40.73	39.03	37.57
45.0	56.47	53.43	50.80	48.46	45.88	44.01	42.31	40.79	38.98
90.0	52.67	49.28	47.05	45.06	42.90	41.32	39.62	38.22	36.87
135.0	58.05	54.84	51.38	48.92	46.88	44.36	42.60	41.02	39.68
180.0	54.60	51.62	48.40	46.23	44.36	42.19	40.67	39.39	37.92
225.0	50.33	47.81	45.59	43.31	41.67	40.15	38.74	36.99	35.76
270.0	51.85	49.10	46.94	44.95	42.84	41.32	39.91	38.33	37.04
315.0	50.80	48.52	46.47	44.18	42.43	41.02	39.39	38.04	36.46
360.0	54.07	51.32	48.28	46.29	44.48	42.66	40.73	39.03	37.57
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.28	34.94	33.12	31.72	30.02	28.79	27.21	25.87	24.64
45.0	37.51	36.23	34.88	33.12	31.89	30.43	28.56	27.33	25.57
90.0	35.64	34.06	32.66	31.37	29.90	28.27	26.98	25.63	24.46
135.0	38.04	36.75	35.35	33.88	32.25	30.78	29.26	27.68	26.28
180.0	36.23	35.00	33.71	31.95	30.49	29.09	27.92	26.28	24.99
225.0	34.47	32.77	31.43	30.14	28.32	27.10	25.93	24.23	23.17
270.0	35.82	34.29	33.01	31.72	30.08	28.62	27.39	26.28	24.52
315.0	35.23	33.77	32.07	30.67	29.20	27.92	26.51	25.16	24.11
360.0	36.28	34.94	33.12	31.72	30.02	28.79	27.21	25.87	24.64
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.64	22.24	21.42	21.30	21.30	21.48	22.12	23.00	23.58
45.0	24.40	23.41	22.36	21.07	20.31	19.55	18.43	17.79	17.15
90.0	23.17	22.18	20.95	20.25	19.43	18.43	17.97	17.85	18.08
135.0	25.16	23.76	22.77	21.48	20.78	20.19	19.49	19.02	18.90
180.0	23.94	22.77	21.71	21.19	21.19	21.36	21.83	22.65	23.29
225.0	22.24	20.89	20.13	19.37	18.61	17.73	17.15	16.56	15.92
270.0	23.47	22.41	21.30	20.31	19.66	18.55	17.91	17.38	17.15
315.0	23.12	21.77	21.01	20.37	19.49	19.08	18.96	18.96	19.14
360.0	23.64	22.24	21.42	21.30	21.30	21.48	22.12	23.00	23.58
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	24.35	24.52	24.23	23.64	22.94	22.06	21.48	20.83	19.08
45.0	16.50	15.68	15.16	14.63	14.10	13.69	13.34	13.05	12.82
90.0	18.79	19.55	20.37	20.83	21.01	20.95	20.48	18.90	17.09
135.0	19.14	19.84	20.89	21.59	21.89	22.00	22.18	21.89	20.37
180.0	23.88	24.17	23.82	22.82	21.95	21.01	20.07	19.25	18.08
225.0	15.27	14.75	14.22	13.75	13.40	12.93	12.64	12.29	12.00
270.0	17.21	17.73	18.55	19.08	19.08	19.02	18.79	18.02	16.56
315.0	19.90	20.48	20.83	21.01	21.19	20.89	19.78	18.20	15.92
360.0	24.35	24.52	24.23	23.64	22.94	22.06	21.48	20.83	19.08
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.51	12.47	11.47	11.06	10.71	10.30	9.89	9.60	9.36
45.0	12.58	12.29	12.06	11.94	11.82	11.65	9.95	9.71	9.66
90.0	15.04	12.76	11.41	11.24	10.42	9.95	9.71	9.54	9.31
135.0	18.49	15.92	12.64	11.65	10.89	10.24	9.95	9.60	9.60
180.0	16.44	13.99	11.59	11.12	10.53	10.07	9.83	9.60	9.42
225.0	11.65	11.29	11.00	10.59	10.07	9.77	9.60	9.71	9.36
270.0	14.34	12.11	11.12	10.83	10.59	10.12	9.83	9.54	9.36
315.0	13.34	11.76	11.12	10.83	10.65	9.95	9.66	9.71	9.36
360.0	15.51	12.47	11.47	11.06	10.71	10.30	9.89	9.60	9.36

Intensity data(cd)

C/γ(°)	90.0
0.0	9.42
45.0	9.31
90.0	9.36
135.0	9.36
180.0	9.54
225.0	9.48
270.0	9.54
315.0	9.42
360.0	9.42