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NT

Client:

LumCAT: 1-1298-L

Luminaire: 92.70.428.00

Report No: 2024720-B008

Ballast type: AC

Test No: 2024720-C008

Voltage(V): 34.890

LampCAT: CREE CXA1516 LES8.9

Current(A): 0.330

Lamp flux(lm): 1726.0

Power (W): 11.513

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 1574.51, Efficiency(%): 91.22% , Luminous Efficacy(lm/W): 136.76

Central intensity(cd): 7385.159, Maximum intensity(cd): 7385.159

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

Beam Angle(50%Imax): [C0/180]Total=18.0

[C90/270]Total=18.0

Field angle(10%Imax): [C0/180]Total=50.6

[C90/270]Total=50.6

Maximum s/h(1/2): C0\_180=0.31 C90\_270=0.31

Maximum s/h(1/4): C0\_180=0.37 C90\_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.22%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.212%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/7/20  
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	7385.159	0.000	0	0.00%	0.00%
1.0	7337.024	7.044	7.044	0.41%	0.45%
2.0	7118.589	20.748	27.792	1.20%	1.77%
3.0	6776.232	33.232	61.024	1.93%	3.88%
4.0	6361.601	43.977	105.001	2.55%	6.67%
5.0	5860.575	52.579	157.58	3.05%	10.01%
6.0	5285.079	58.573	216.153	3.39%	13.73%
7.0	4728.677	62.155	278.308	3.60%	17.68%
8.0	4226.992	64.094	342.403	3.71%	21.75%
9.0	3683.538	64.111	406.513	3.71%	25.82%
10.0	3273.149	62.955	469.469	3.65%	29.82%
11.0	2912.797	61.810	531.279	3.58%	33.74%
12.0	2606.431	60.333	591.612	3.50%	37.57%
13.0	2350.907	58.831	650.443	3.41%	41.31%
14.0	2127.644	57.325	707.768	3.32%	44.95%
15.0	1944.908	55.910	763.678	3.24%	48.50%
16.0	1761.220	54.305	817.983	3.15%	51.95%
17.0	1618.937	52.638	870.621	3.05%	55.29%
18.0	1435.059	50.354	920.975	2.92%	58.49%
19.0	1318.753	47.911	968.886	2.78%	61.54%
20.0	1225.783	46.572	1015.458	2.70%	64.49%
21.0	1125.936	45.158	1060.615	2.62%	67.36%
22.0	1029.352	43.311	1103.927	2.51%	70.11%
23.0	927.457	41.059	1144.986	2.38%	72.72%
24.0	841.546	38.677	1183.663	2.24%	75.18%
25.0	758.415	36.380	1220.042	2.11%	77.49%
26.0	687.244	34.125	1254.167	1.98%	79.65%
27.0	622.343	32.039	1286.207	1.86%	81.69%
28.0	550.880	29.704	1315.91	1.72%	83.58%
29.0	484.266	27.082	1342.993	1.57%	85.30%
30.0	418.838	24.384	1367.376	1.41%	86.84%
31.0	354.054	21.508	1388.885	1.25%	88.21%
32.0	291.771	18.502	1407.387	1.07%	89.39%
33.0	248.947	15.930	1423.317	0.92%	90.40%
34.0	209.116	13.862	1437.179	0.80%	91.28%
35.0	144.814	10.992	1448.171	0.64%	91.98%
36.0	108.771	8.074	1456.245	0.47%	92.49%
37.0	87.681	6.407	1462.652	0.37%	92.90%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	74.945	5.428	1468.08	0.31%	93.24%
39.0	67.038	4.846	1472.927	0.28%	93.55%
40.0	60.549	4.450	1477.376	0.26%	93.83%
41.0	54.989	4.114	1481.491	0.24%	94.09%
42.0	49.627	3.801	1485.292	0.22%	94.33%
43.0	45.691	3.531	1488.822	0.20%	94.56%
44.0	42.092	3.313	1492.136	0.19%	94.77%
45.0	39.035	3.118	1495.253	0.18%	94.97%
46.0	36.321	2.947	1498.2	0.17%	95.15%
47.0	33.950	2.795	1500.995	0.16%	95.33%
48.0	31.895	2.662	1503.657	0.15%	95.50%
49.0	30.059	2.544	1506.201	0.15%	95.66%
50.0	28.596	2.445	1508.647	0.14%	95.82%
51.0	27.257	2.363	1511.01	0.14%	95.97%
52.0	26.167	2.292	1513.302	0.13%	96.11%
53.0	25.274	2.238	1515.54	0.13%	96.25%
54.0	24.631	2.200	1517.739	0.13%	96.39%
55.0	24.016	2.172	1519.911	0.13%	96.53%
56.0	23.526	2.148	1522.059	0.12%	96.67%
57.0	23.175	2.135	1524.195	0.12%	96.80%
58.0	22.963	2.134	1526.328	0.12%	96.94%
59.0	22.758	2.137	1528.466	0.12%	97.08%
60.0	22.656	2.145	1530.611	0.12%	97.21%
61.0	22.634	2.161	1532.772	0.13%	97.35%
62.0	22.502	2.175	1534.947	0.13%	97.49%
63.0	22.297	2.179	1537.126	0.13%	97.63%
64.0	21.975	2.172	1539.298	0.13%	97.76%
65.0	21.434	2.148	1541.447	0.12%	97.90%
66.0	20.885	2.111	1543.558	0.12%	98.03%
67.0	20.329	2.072	1545.631	0.12%	98.17%
68.0	19.722	2.029	1547.659	0.12%	98.29%
69.0	19.078	1.979	1549.639	0.11%	98.42%
70.0	18.457	1.928	1551.567	0.11%	98.54%
71.0	17.652	1.866	1553.433	0.11%	98.66%
72.0	16.394	1.770	1555.203	0.10%	98.77%
73.0	15.216	1.653	1556.856	0.10%	98.88%
74.0	13.782	1.524	1558.381	0.09%	98.98%
75.0	12.516	1.390	1559.77	0.08%	99.06%

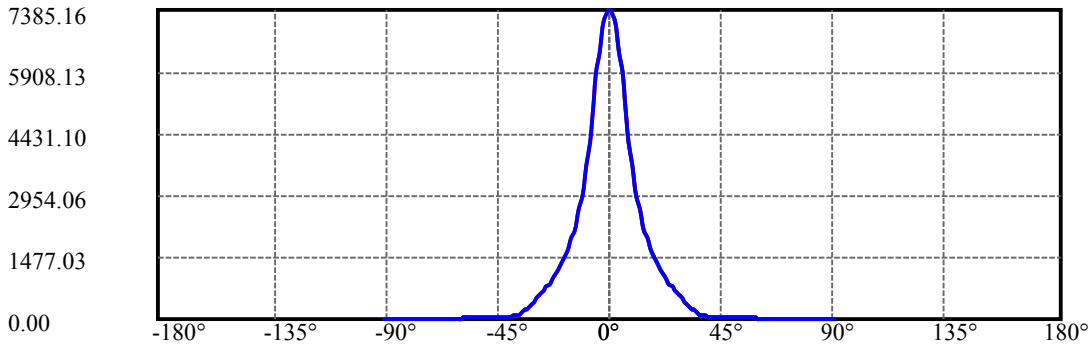
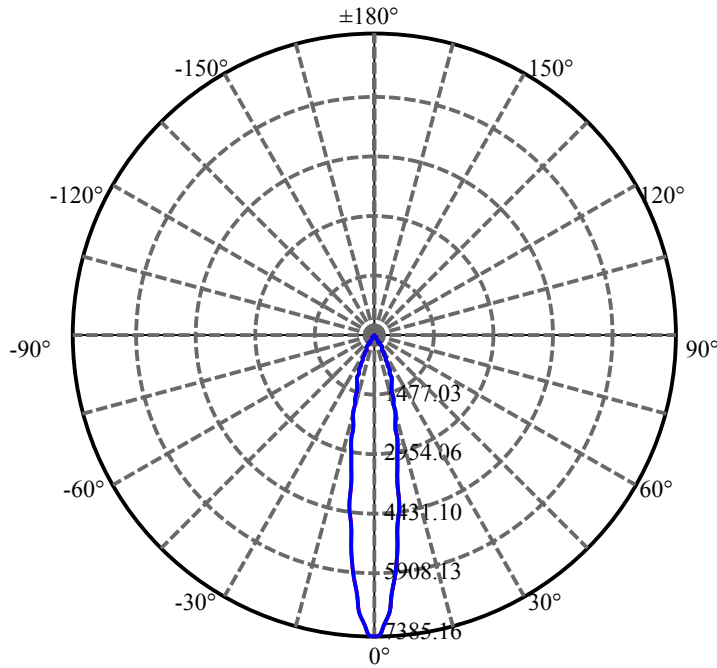
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.705	1.286	1561.056	0.07%	99.15%
77.0	11.053	1.213	1562.269	0.07%	99.22%
78.0	10.585	1.158	1563.428	0.07%	99.30%
79.0	10.190	1.116	1564.544	0.06%	99.37%
80.0	9.810	1.078	1565.622	0.06%	99.44%
81.0	9.459	1.042	1566.664	0.06%	99.50%
82.0	9.137	1.008	1567.672	0.06%	99.57%
83.0	8.822	0.976	1568.649	0.06%	99.63%
84.0	8.544	0.946	1569.595	0.05%	99.69%
85.0	8.222	0.915	1570.51	0.05%	99.75%
86.0	7.703	0.871	1571.38	0.05%	99.80%
87.0	7.271	0.820	1572.2	0.05%	99.85%
88.0	7.081	0.786	1572.986	0.05%	99.90%
89.0	6.950	0.769	1573.755	0.04%	99.95%
90.0	6.898	0.759	1574.514	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1367.38	79.22%	86.84%
0-40	1477.38	85.60%	93.83%
0-60	1530.61	88.68%	97.21%
0-90	1573.76	91.18%	99.95%
0-120	1573.76	91.18%	99.95%
0-180	1574.51	91.22%	100.00%
60-90	43.14	2.50%	2.74%
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%
0-26.17	1259.61	72.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	469.47
10-20	545.99
20-30	351.92
30-40	110.00
40-50	31.27
50-60	21.96
60-70	20.96
70-80	14.06
80-90	8.13
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



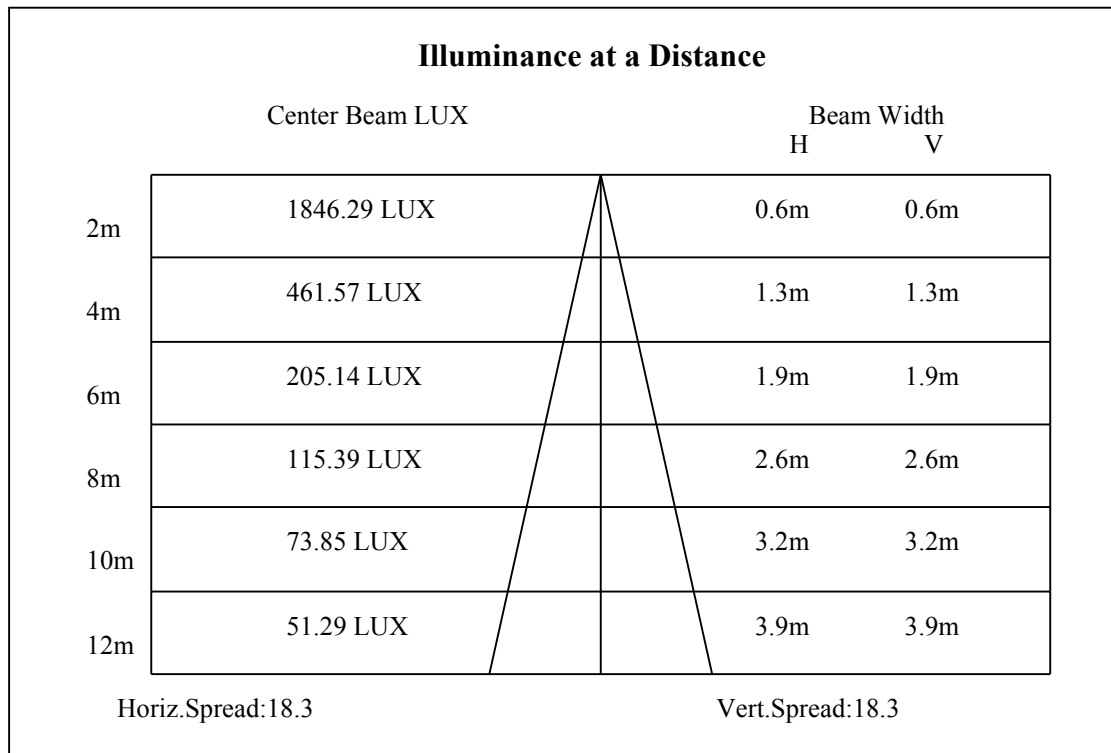
C0(Max): —————

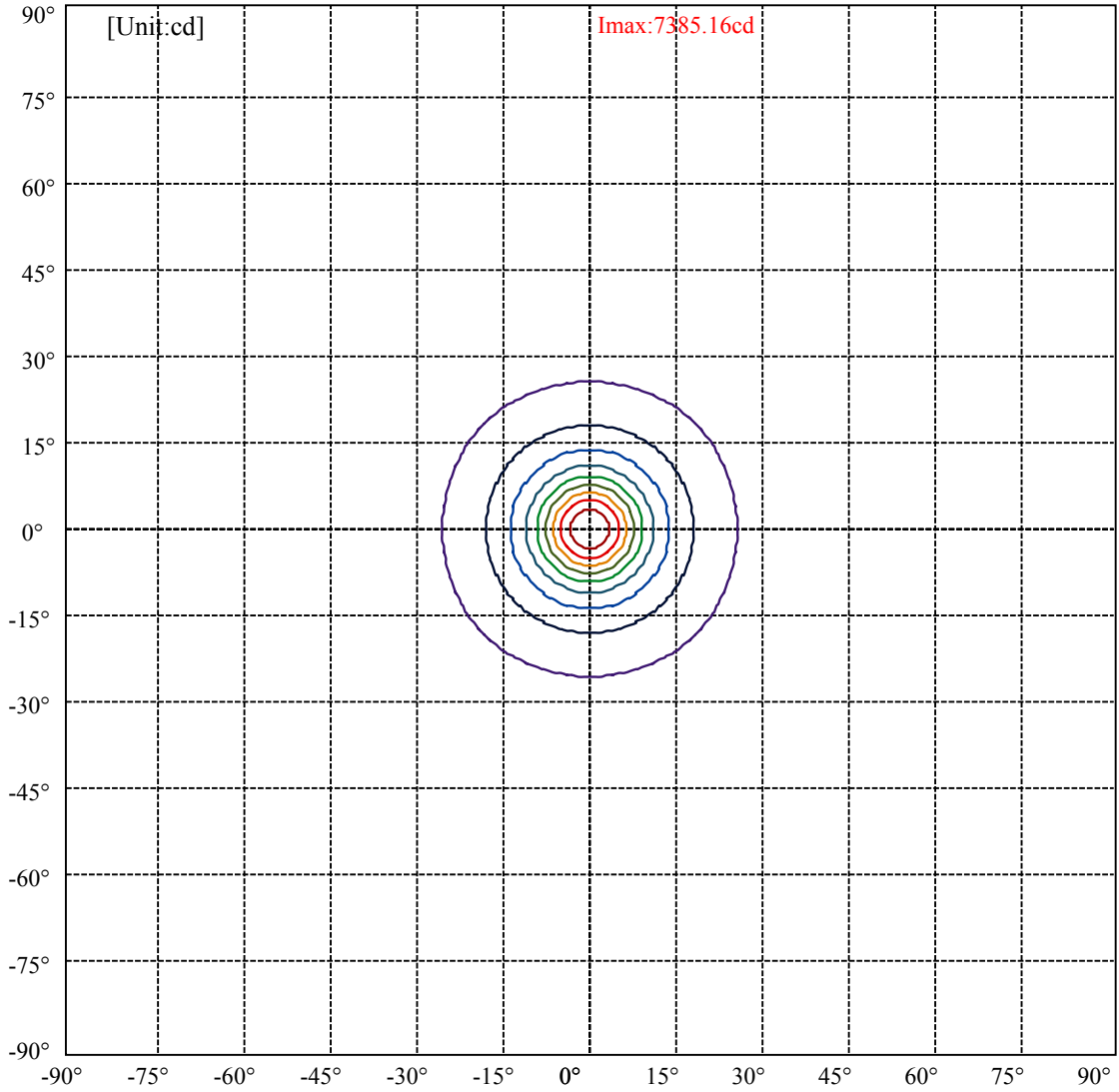
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:25.3 Right:25.3  
:C90/270Left:25.3 Right:25.3

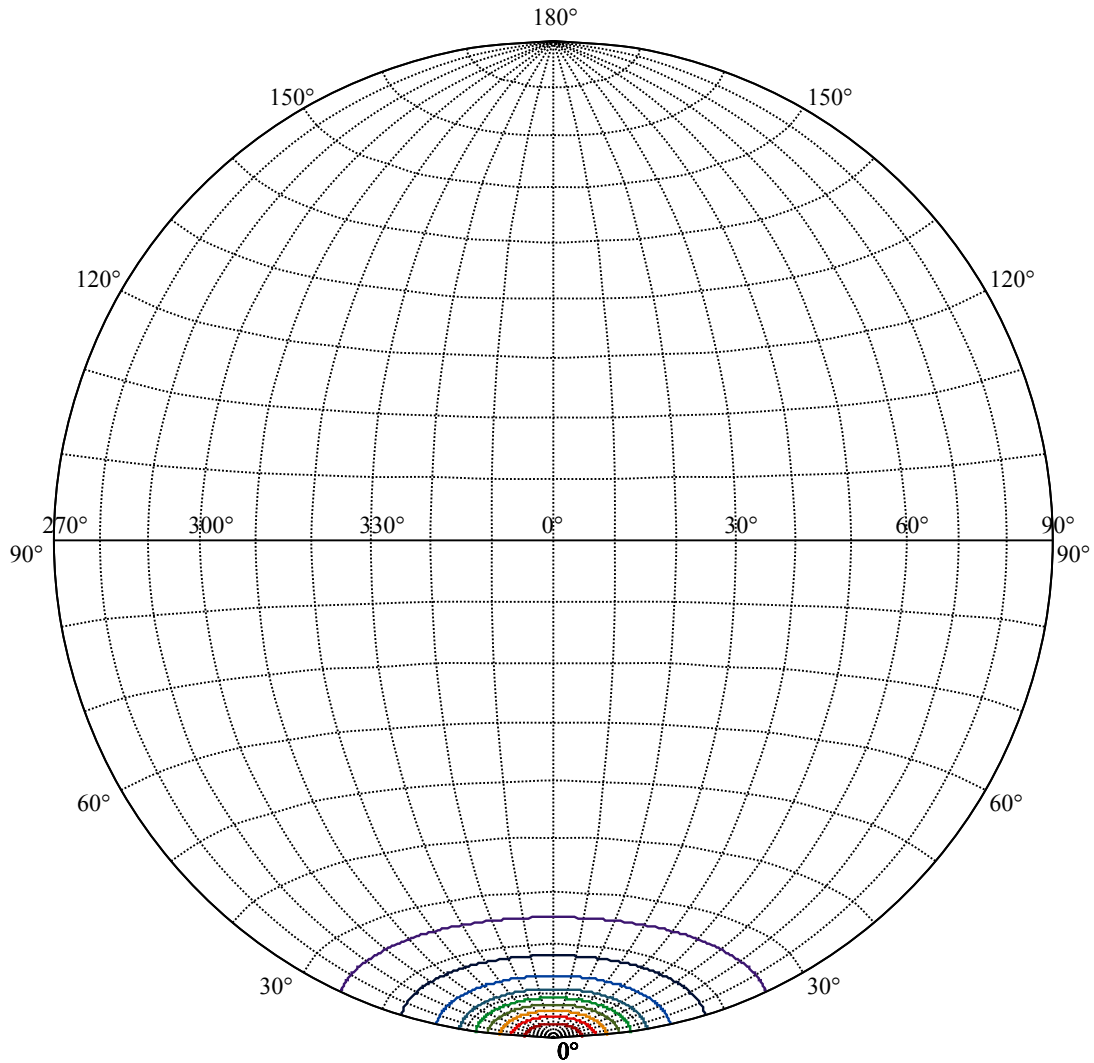
Beam Angle(50%Imax):C0/180Left:9.0 Right:9.0  
:C90/270Left:9.0 Right:9.0





(10%Imax) 738.516	—
(20%Imax) 1477.03	—
(30%Imax) 2215.55	—
(40%Imax) 2954.06	—
(50%Imax) 3692.58	—
(60%Imax) 4431.1	—
(70%Imax) 5169.61	—
(80%Imax) 5908.13	—
(90%Imax) 6646.64	—





House

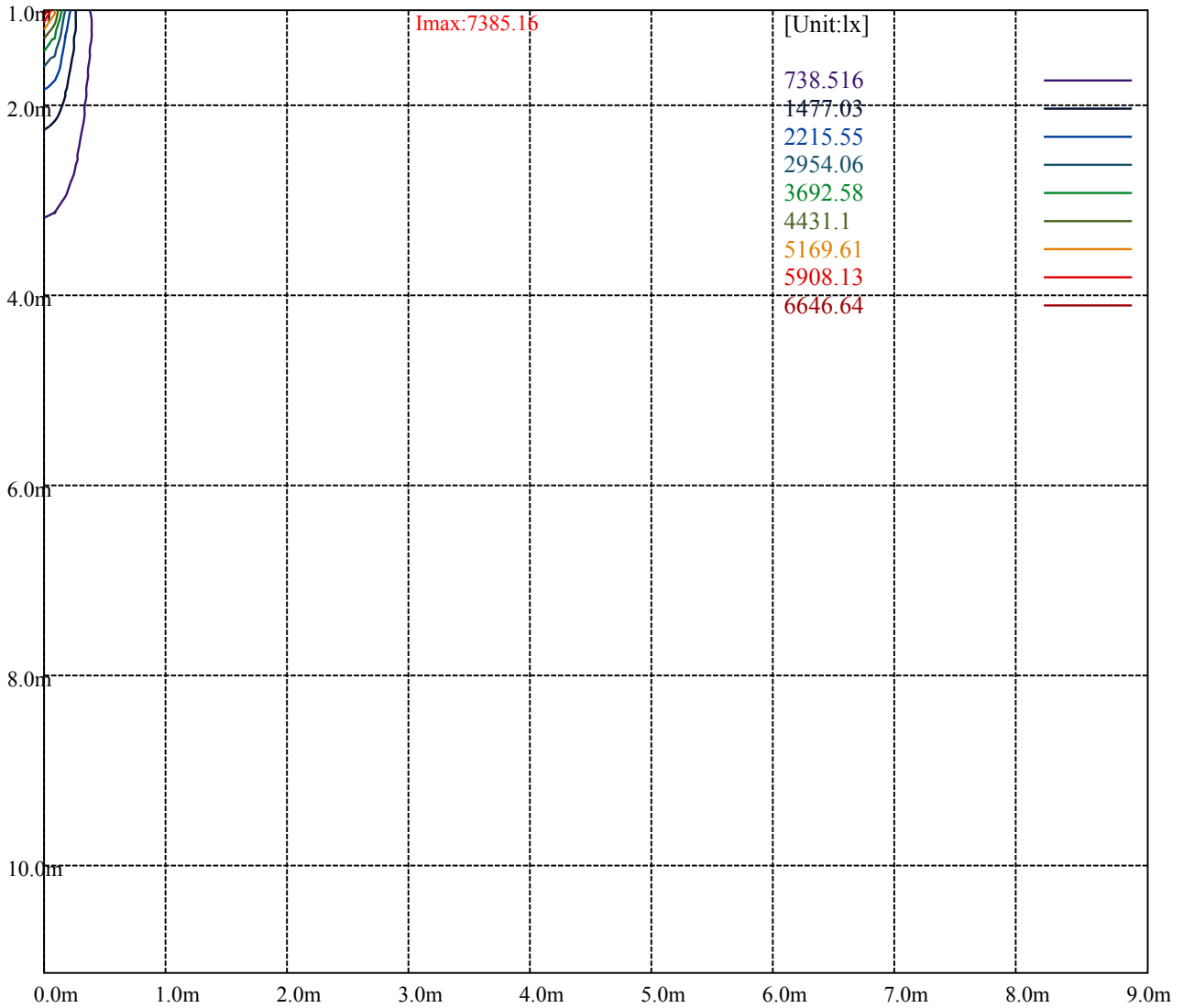
[Unit:cd]

Road

Imax:7385.16

(10%Imax) 738.516	—
(20%Imax) 1477.03	—
(30%Imax) 2215.55	—
(40%Imax) 2954.06	—
(50%Imax) 3692.58	—
(60%Imax) 4431.1	—
(70%Imax) 5169.61	—
(80%Imax) 5908.13	—
(90%Imax) 6646.64	—





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

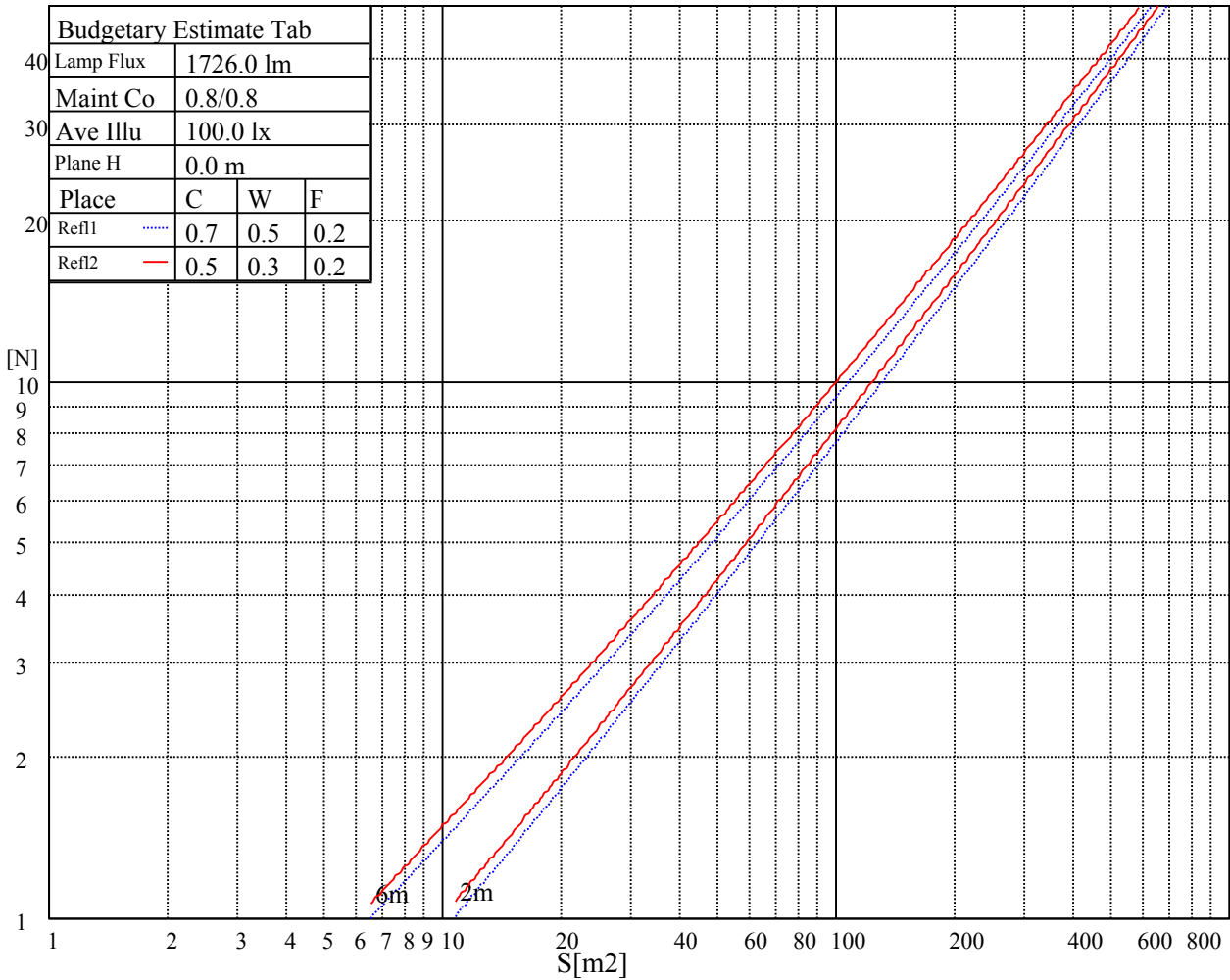
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

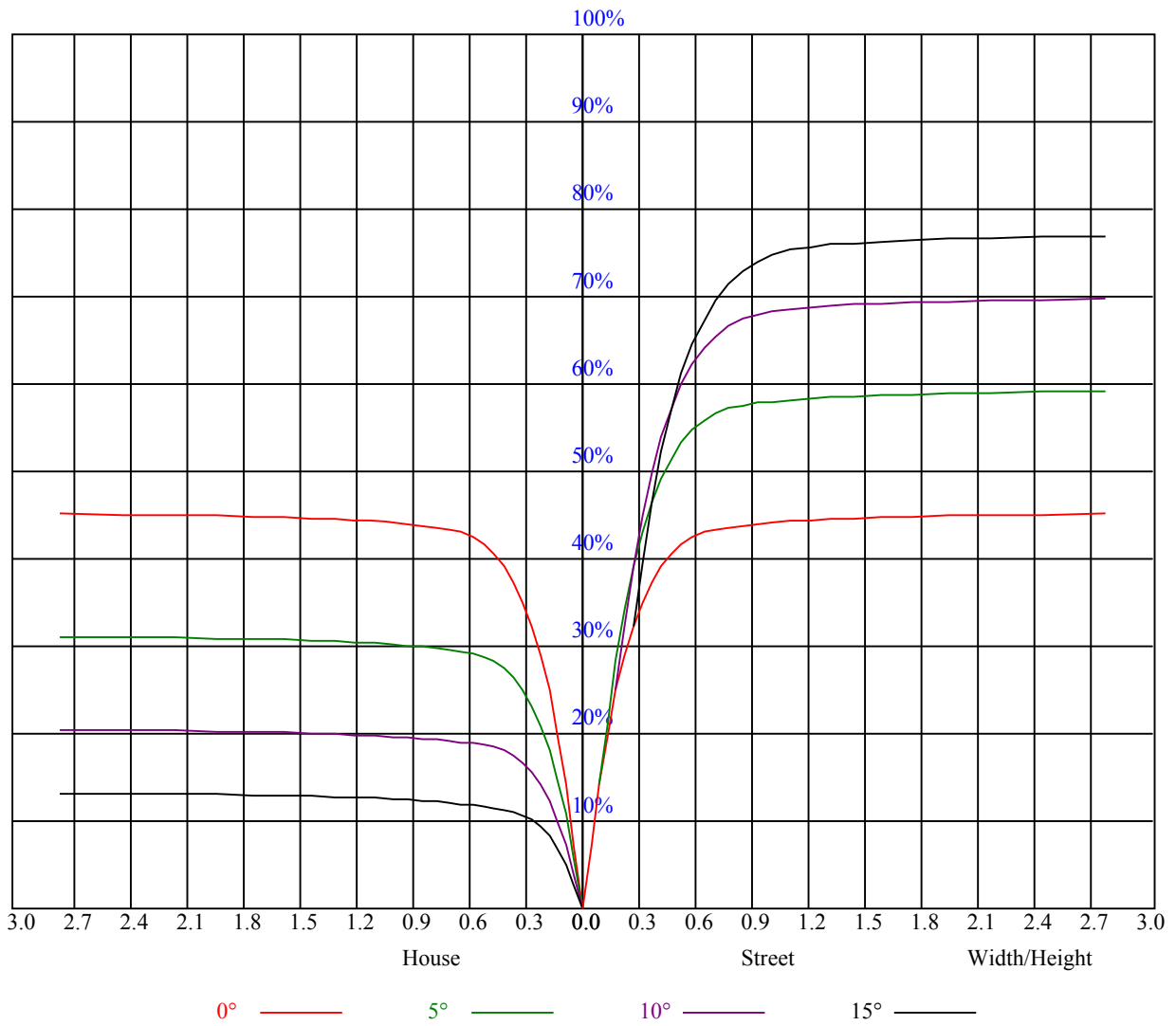


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
8H	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	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	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	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				

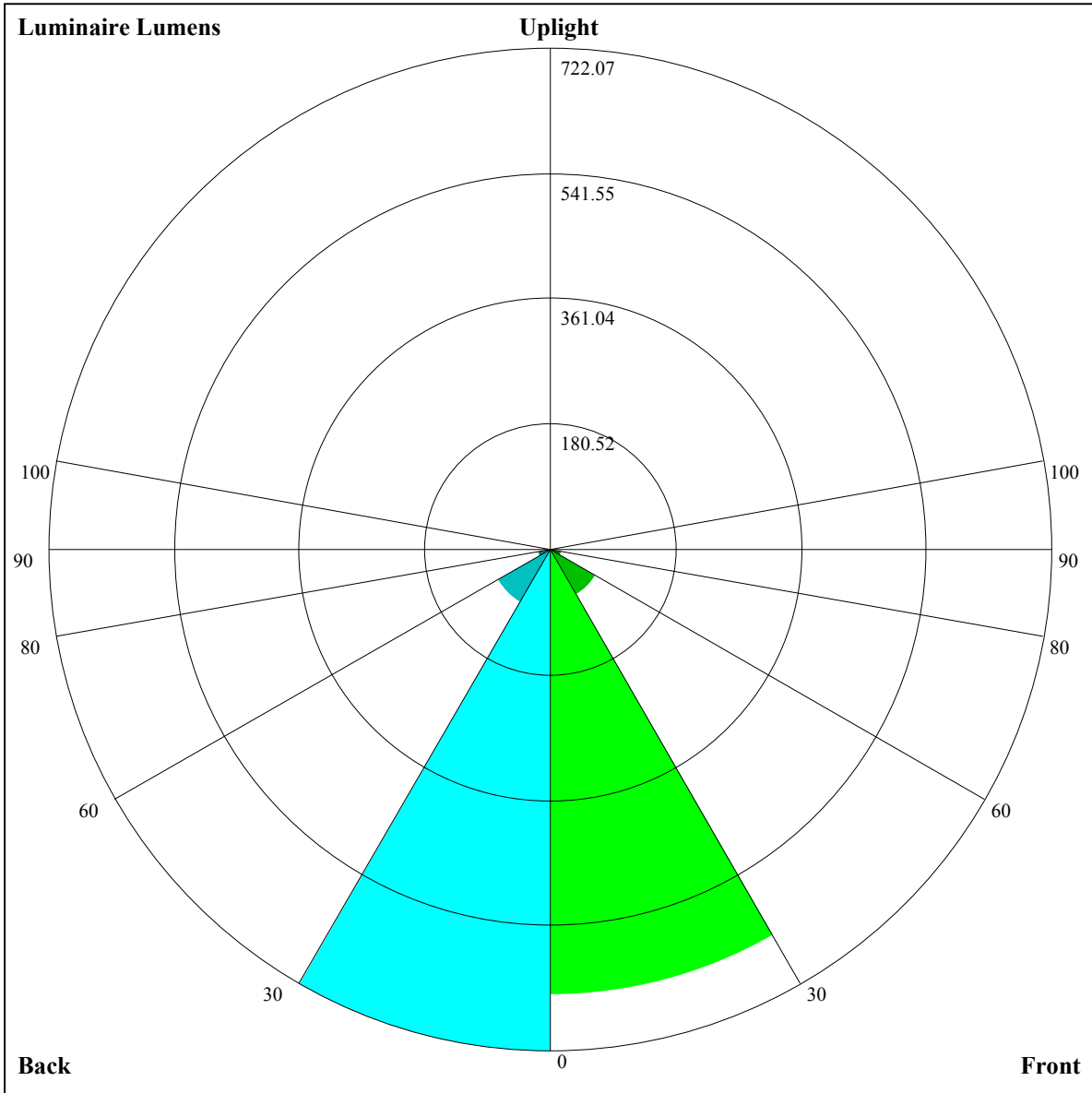
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.71	0.66	0.64	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60







Luminaire Lumens:

FL=642.97,FM=75.1,FH=17.07,FVH=4.38

BL=722.07,BM=88.43,BH=18.3,BVH=4.51

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	7331.76	7076.01	6604.91	6153.11	5636.95	4954.57	4432.55	3949.16	3522.53
45.0	7443.54	7390.87	7201.84	6780.48	6330.44	5811.34	5261.23	4574.18	4064.45
90.0	7441.78	7328.83	7024.51	6637.10	6153.11	5612.37	4922.39	4382.22	3887.12
135.0	7323.56	7499.13	7502.06	7354.00	7100.59	6710.25	6090.50	5536.87	4970.96
180.0	7331.76	7514.93	7495.62	7352.24	7094.74	6628.32	6160.72	5636.95	5094.44
225.0	7443.54	7418.96	7173.75	6873.53	6383.11	5918.44	5422.17	4763.79	4249.96
270.0	7441.78	7411.93	7262.12	6919.17	6552.82	6133.80	5530.43	5023.04	4513.31
315.0	7323.56	7055.53	6683.91	6140.24	5641.04	5115.51	4460.64	3963.20	3513.16
360.0	7331.76	7076.01	6604.91	6153.11	5636.95	4954.57	4432.55	3949.16	3522.53
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3063.71	2763.49	2511.26	2290.04	2043.08	1876.88	1730.57	1560.27	1439.71
45.0	3619.68	3231.67	2832.55	2569.78	2342.71	2093.99	1918.43	1729.98	1588.94
90.0	3349.89	2985.29	2690.92	2395.38	2192.90	2013.82	1811.92	1667.36	1535.10
135.0	4284.49	3796.41	3266.20	2915.06	2620.11	2333.94	2133.20	1955.30	1796.70
180.0	4421.43	3923.41	3488.00	3105.26	2730.13	2480.24	2265.46	2022.60	1855.22
225.0	3778.27	3260.93	2933.21	2659.32	2414.70	2154.86	1972.85	1807.82	1665.02
270.0	3911.70	3478.64	3094.14	2703.80	2441.03	2215.72	2017.33	1803.72	1649.22
315.0	3039.13	2745.35	2486.09	2212.79	2022.60	1851.71	1709.50	1542.71	1421.57
360.0	3063.71	2763.49	2511.26	2290.04	2043.08	1876.88	1730.57	1560.27	1439.71
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1147.39	1147.39	1098.99	979.55	889.83	803.81	733.81	670.26	591.55
45.0	1464.88	1353.10	1222.01	1124.28	1027.13	934.08	831.08	764.95	698.82
90.0	1415.13	1159.45	1159.45	1057.56	961.12	853.26	775.77	691.03	624.55
135.0	1621.13	1496.48	1384.70	1276.43	1151.78	1053.46	956.32	850.39	772.56
180.0	1662.10	1539.20	1411.62	1271.75	1178.12	1077.46	978.55	865.61	786.02
225.0	1498.23	1298.67	1165.65	1145.23	1052.18	940.92	855.66	778.64	717.84
270.0	1509.35	1393.48	1248.34	1151.20	1061.07	947.54	857.41	760.85	695.31
315.0	1162.26	1162.26	1115.50	1001.50	913.59	809.13	743.76	685.59	611.33
360.0	1147.39	1147.39	1098.99	979.55	889.83	803.81	733.81	670.26	591.55
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	527.64	465.14	404.51	329.83	272.66	206.88	160.82	123.78	92.88
45.0	629.18	543.73	478.19	400.94	339.49	296.18	296.18	165.03	126.99
90.0	556.67	475.26	416.50	356.64	287.99	236.55	190.32	148.47	110.90
135.0	708.18	623.32	557.78	494.57	417.91	356.46	299.11	299.11	178.32
180.0	723.98	663.12	581.77	515.64	453.61	375.19	314.91	300.28	232.28
225.0	645.74	580.13	516.64	454.90	378.87	318.13	260.60	206.82	147.30
270.0	640.29	571.82	512.13	451.27	393.33	323.10	295.01	295.01	167.43
315.0	547.07	484.51	406.61	346.92	288.57	221.68	174.63	134.43	102.41
360.0	527.64	465.14	404.51	329.83	272.66	206.88	160.82	123.78	92.88
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	79.77	72.28	64.14	58.70	53.72	49.39	45.00	41.96	39.33
45.0	100.89	83.28	74.85	67.53	60.98	53.90	49.33	45.53	41.38
90.0	92.82	82.81	75.03	66.42	60.28	55.13	49.69	46.00	41.96
135.0	137.29	106.69	87.49	75.32	67.89	61.33	54.19	49.28	44.36
180.0	147.30	113.94	88.72	80.47	73.86	67.59	60.92	56.30	52.32
225.0	109.61	79.71	69.47	63.09	55.65	50.21	45.65	40.85	37.75
270.0	120.03	91.76	75.03	65.90	60.04	54.78	49.45	46.06	42.90
315.0	82.46	70.99	64.84	58.87	51.97	47.58	42.78	39.56	36.75
360.0	79.77	72.28	64.14	58.70	53.72	49.39	45.00	41.96	39.33

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	37.04	34.65	33.12	31.84	30.49	29.55	28.73	28.32	27.86
45.0	38.45	35.76	32.89	30.90	28.91	27.56	26.28	25.16	24.40
90.0	39.03	36.52	34.24	31.66	30.02	28.73	27.56	26.34	25.57
135.0	40.91	37.81	35.05	32.13	30.37	28.62	27.33	25.87	24.99
180.0	48.98	45.30	42.49	40.09	37.34	35.41	33.42	32.01	30.67
225.0	34.94	32.48	29.85	28.27	26.57	25.22	23.88	22.77	21.95
270.0	39.39	36.64	34.41	32.42	30.31	28.85	27.33	26.10	24.76
315.0	33.53	31.43	29.55	27.86	26.45	24.81	23.53	22.77	22.00
360.0	37.04	34.65	33.12	31.84	30.49	29.55	28.73	28.32	27.86
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.33	26.86	26.51	26.04	25.34	24.64	23.99	23.23	22.24
45.0	23.76	23.35	22.82	22.59	22.94	23.00	23.53	24.46	25.16
90.0	25.11	24.46	24.23	24.46	25.34	25.75	26.74	27.80	28.68
135.0	24.17	23.47	23.06	22.71	22.41	22.53	22.94	23.53	24.52
180.0	29.61	28.62	27.80	26.92	26.16	25.69	25.11	24.58	24.11
225.0	21.48	20.95	20.37	20.19	20.01	19.78	19.20	18.90	18.43
270.0	24.17	23.47	22.77	22.24	21.77	21.42	20.78	20.19	19.49
315.0	21.42	20.95	20.66	20.25	19.72	19.25	18.96	18.38	17.38
360.0	27.33	26.86	26.51	26.04	25.34	24.64	23.99	23.23	22.24
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.30	20.37	19.20	18.49	17.73	16.85	15.92	14.86	13.87
45.0	25.63	25.75	25.63	25.11	24.70	24.23	23.64	22.94	20.83
90.0	29.38	30.08	29.79	29.85	29.55	29.20	28.09	27.74	26.86
135.0	25.52	26.51	27.21	27.56	27.56	27.21	26.92	26.51	26.04
180.0	23.76	23.12	22.24	21.65	20.95	20.07	19.55	18.90	18.14
225.0	17.62	16.56	15.80	14.92	14.16	13.46	12.93	12.41	12.00
270.0	18.61	17.67	16.74	15.51	14.63	13.93	13.23	12.47	12.00
315.0	16.56	15.74	14.86	13.99	13.34	12.82	12.35	11.82	11.47
360.0	21.30	20.37	19.20	18.49	17.73	16.85	15.92	14.86	13.87
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.82	12.17	11.70	11.41	11.00	10.71	10.36	9.95	9.60
45.0	17.91	15.80	13.93	12.87	12.00	11.29	10.89	10.42	10.07
90.0	24.11	21.07	17.67	14.28	13.05	12.06	11.53	11.00	10.48
135.0	25.46	24.23	20.66	17.50	15.16	13.40	12.29	11.59	11.06
180.0	16.85	15.63	14.40	13.17	12.41	11.82	11.41	11.00	10.59
225.0	11.70	11.24	10.89	10.59	10.30	9.95	9.66	9.42	9.13
270.0	11.24	10.89	10.53	10.18	9.95	9.66	9.36	9.13	8.90
315.0	11.06	10.71	10.48	10.12	9.77	9.54	9.19	9.01	8.66
360.0	12.82	12.17	11.70	11.41	11.00	10.71	10.36	9.95	9.60
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.36	9.19	8.90	8.72	8.49	7.84	7.61	7.32	7.08
45.0	9.66	9.31	8.95	8.66	8.37	8.02	7.20	7.02	6.85
90.0	9.95	9.48	9.13	8.78	8.43	7.49	7.14	6.96	6.85
135.0	10.53	9.95	9.66	9.25	8.78	8.31	7.32	7.08	6.96
180.0	10.24	9.95	9.54	9.19	8.84	8.13	7.72	7.55	7.43
225.0	8.78	8.54	8.25	8.08	7.72	7.37	7.08	6.96	6.85
270.0	8.66	8.43	8.13	7.90	7.67	7.32	7.14	6.96	6.85
315.0	8.49	8.25	8.02	7.78	7.49	7.14	6.96	6.79	6.73
360.0	9.36	9.19	8.90	8.72	8.49	7.84	7.61	7.32	7.08

Intensity data(cd)

<i>C/γ(°)</i>	<b>90.0</b>
<b>0.0</b>	<b>7.08</b>
<b>45.0</b>	<b>6.79</b>
<b>90.0</b>	<b>6.79</b>
<b>135.0</b>	<b>6.85</b>
<b>180.0</b>	<b>7.43</b>
<b>225.0</b>	<b>6.73</b>
<b>270.0</b>	<b>6.79</b>
<b>315.0</b>	<b>6.73</b>
<b>360.0</b>	<b>7.08</b>