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## Nata

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LumCAT: 6-0845-M3	
Luminaire: LM07126060EM	
Report No: 220627-B010	Voltage(V): 40.2700
Test No: 220627-C010	Current(A): 0.3500
LampCAT: LUMILEDS 5050	Power (W): 14.0940
Lamp flux(lm): 2222.2	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1925.37  
Efficiency(%): 86.64%  
Lumens(lm)/Power(W): 136.61  
Central intensity(cd): 2056.695  
Maximum intensity(cd): 2118.838  
Angle of maximum intensity: C=135.0  $\gamma$ =6.0  
Beam Angle(50%Imax): [C0/180]Total=56.7  
                                  [C90/270]Total=58.4  
Field angle(10%Imax): [C0/180]Total=80.6  
                                  [C90/270]Total=85.0  
Maximum s/h(1/2): C0\_180=0.88 C90\_270=0.92  
Maximum s/h(1/4): C0\_180=0.82 C90\_270=0.86  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 86.64%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.523%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2087.169	0.000	0	.000%	.000%
1.0	2087.393	1.997	1.997	.090%	.104%
2.0	2087.766	5.993	7.99	.270%	.415%
3.0	2089.522	9.991	17.981	.450%	.934%
4.0	2091.015	13.994	31.974	.630%	1.661%
5.0	2090.941	17.991	49.965	.810%	2.595%
6.0	2088.961	21.966	71.931	.989%	3.736%
7.0	2085.638	25.912	97.843	1.166%	5.082%
8.0	2080.260	29.815	127.658	1.342%	6.630%
9.0	2073.052	33.660	161.318	1.515%	8.379%
10.0	2063.977	37.439	198.757	1.685%	10.323%
11.0	2052.251	41.130	239.886	1.851%	12.459%
12.0	2037.275	44.704	284.59	2.012%	14.781%
13.0	2015.988	48.102	332.692	2.165%	17.279%
14.0	1992.348	51.306	383.999	2.309%	19.944%
15.0	1965.609	54.337	438.335	2.445%	22.766%
16.0	1933.193	57.128	495.464	2.571%	25.733%
17.0	1892.710	59.580	555.043	2.681%	28.828%
18.0	1849.128	61.695	616.738	2.776%	32.032%
19.0	1801.587	63.515	680.253	2.858%	35.331%
20.0	1745.606	64.923	745.177	2.922%	38.703%
21.0	1682.754	65.831	811.008	2.962%	42.122%
22.0	1618.818	66.346	877.355	2.986%	45.568%
23.0	1548.758	66.464	943.819	2.991%	49.020%
24.0	1467.979	65.957	1009.776	2.968%	52.446%
25.0	1383.911	64.846	1074.621	2.918%	55.814%
26.0	1304.185	63.453	1138.074	2.855%	59.109%
27.0	1212.517	61.572	1199.646	2.771%	62.307%
28.0	1130.943	59.331	1258.977	2.670%	65.389%
29.0	1040.881	56.821	1315.798	2.557%	68.340%
30.0	960.610	54.040	1369.838	2.432%	71.147%
31.0	872.385	51.010	1420.848	2.295%	73.796%
32.0	789.623	47.615	1468.462	2.143%	76.269%
33.0	714.469	44.311	1512.774	1.994%	78.571%
34.0	641.713	41.042	1553.816	1.847%	80.702%
35.0	570.371	37.643	1591.458	1.694%	82.657%
36.0	510.678	34.421	1625.879	1.549%	84.445%
37.0	455.272	31.504	1657.383	1.418%	86.081%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	404.105	28.685	1686.068	1.291%	87.571%
39.0	354.828	25.904	1711.972	1.166%	88.917%
40.0	314.737	23.352	1735.324	1.051%	90.129%
41.0	272.118	20.898	1756.222	.940%	91.215%
42.0	238.948	18.568	1774.79	.836%	92.179%
43.0	200.882	16.293	1791.083	.733%	93.025%
44.0	174.557	14.170	1805.253	.638%	93.761%
45.0	150.872	12.507	1817.759	.563%	94.411%
46.0	130.056	10.986	1828.746	.494%	94.982%
47.0	113.609	9.691	1838.437	.436%	95.485%
48.0	99.462	8.613	1847.051	.388%	95.932%
49.0	87.067	7.660	1854.71	.345%	96.330%
50.0	75.102	6.761	1861.472	.304%	96.681%
51.0	65.358	5.943	1867.415	.267%	96.990%
52.0	56.825	5.243	1872.658	.236%	97.262%
53.0	48.986	4.603	1877.26	.207%	97.501%
54.0	42.365	4.026	1881.287	.181%	97.710%
55.0	37.021	3.544	1884.83	.159%	97.895%
56.0	32.225	3.129	1887.959	.141%	98.057%
57.0	27.849	2.747	1890.706	.124%	98.200%
58.0	23.875	2.392	1893.098	.108%	98.324%
59.0	20.607	2.080	1895.178	.094%	98.432%
60.0	16.693	1.762	1896.94	.079%	98.523%
61.0	13.258	1.429	1898.369	.064%	98.598%
62.0	11.402	1.188	1899.557	.053%	98.659%
63.0	10.614	1.071	1900.628	.048%	98.715%
64.0	10.121	1.017	1901.645	.046%	98.768%
65.0	9.863	0.989	1902.634	.045%	98.819%
66.0	9.740	0.978	1903.612	.044%	98.870%
67.0	9.676	0.976	1904.589	.044%	98.921%
68.0	9.624	0.978	1905.566	.044%	98.972%
69.0	9.560	0.979	1906.545	.044%	99.022%
70.0	9.471	0.977	1907.523	.044%	99.073%
71.0	9.377	0.974	1908.497	.044%	99.124%
72.0	9.265	0.969	1909.466	.044%	99.174%
73.0	9.172	0.964	1910.43	.043%	99.224%
74.0	9.090	0.960	1911.39	.043%	99.274%
75.0	8.982	0.955	1912.345	.043%	99.324%

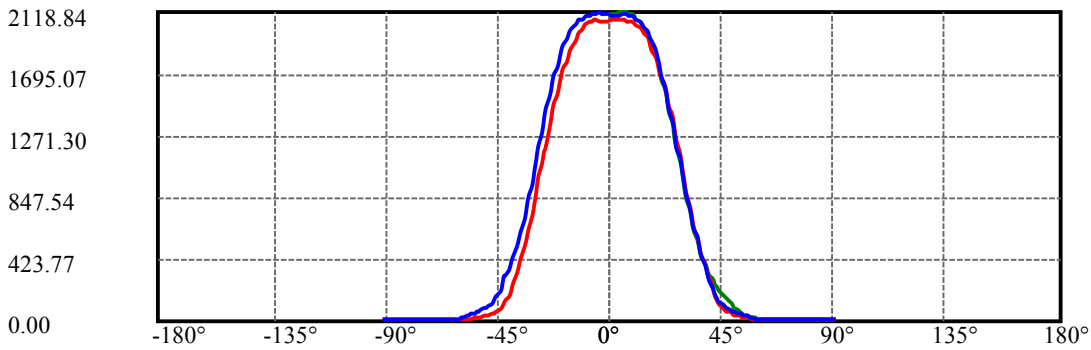
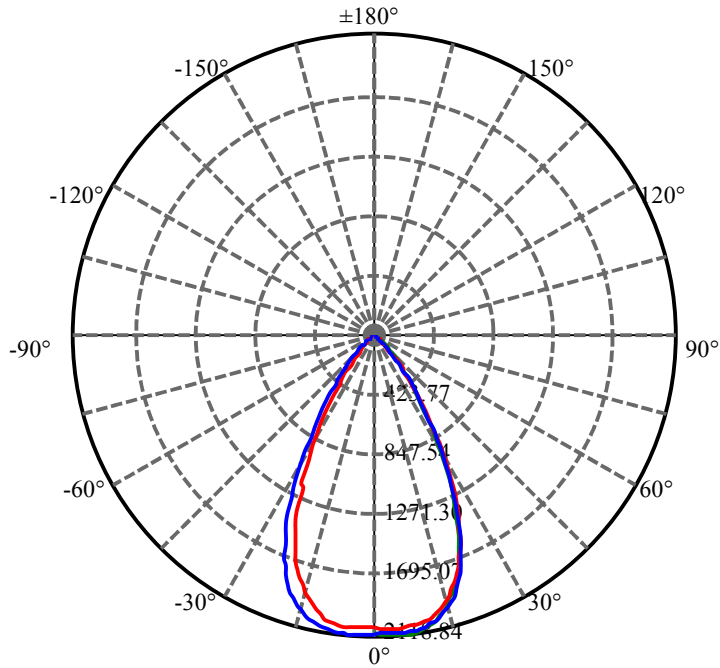
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.877	0.948	1913.293	.043%	99.373%
77.0	8.758	0.940	1914.233	.042%	99.422%
78.0	8.616	0.930	1915.163	.042%	99.470%
79.0	8.455	0.917	1916.081	.041%	99.518%
80.0	8.276	0.902	1916.983	.041%	99.564%
81.0	8.097	0.885	1917.868	.040%	99.610%
82.0	7.932	0.869	1918.737	.039%	99.656%
83.0	7.775	0.854	1919.591	.038%	99.700%
84.0	7.630	0.839	1920.43	.038%	99.744%
85.0	7.551	0.829	1921.259	.037%	99.787%
86.0	7.506	0.823	1922.082	.037%	99.829%
87.0	7.480	0.820	1922.902	.037%	99.872%
88.0	7.473	0.819	1923.721	.037%	99.914%
89.0	7.499	0.821	1924.542	.037%	99.957%
90.0	7.581	0.827	1925.369	.037%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1369.84	61.64%	71.15%
0-40	1735.32	78.09%	90.13%
0-60	1896.94	85.36%	98.52%
0-90	1924.54	86.61%	99.96%
0-120	1924.54	86.61%	99.96%
0-180	1925.37	86.64%	100.00%
60-90	29.36	1.32%	1.53%
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%
0-33.67	1540.30	69.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	198.76
10-20	546.42
20-30	624.66
30-40	365.49
40-50	126.15
50-60	35.47
60-70	10.58
70-80	9.46
80-90	7.56
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



C135(Max): ——

C0/C180: ——

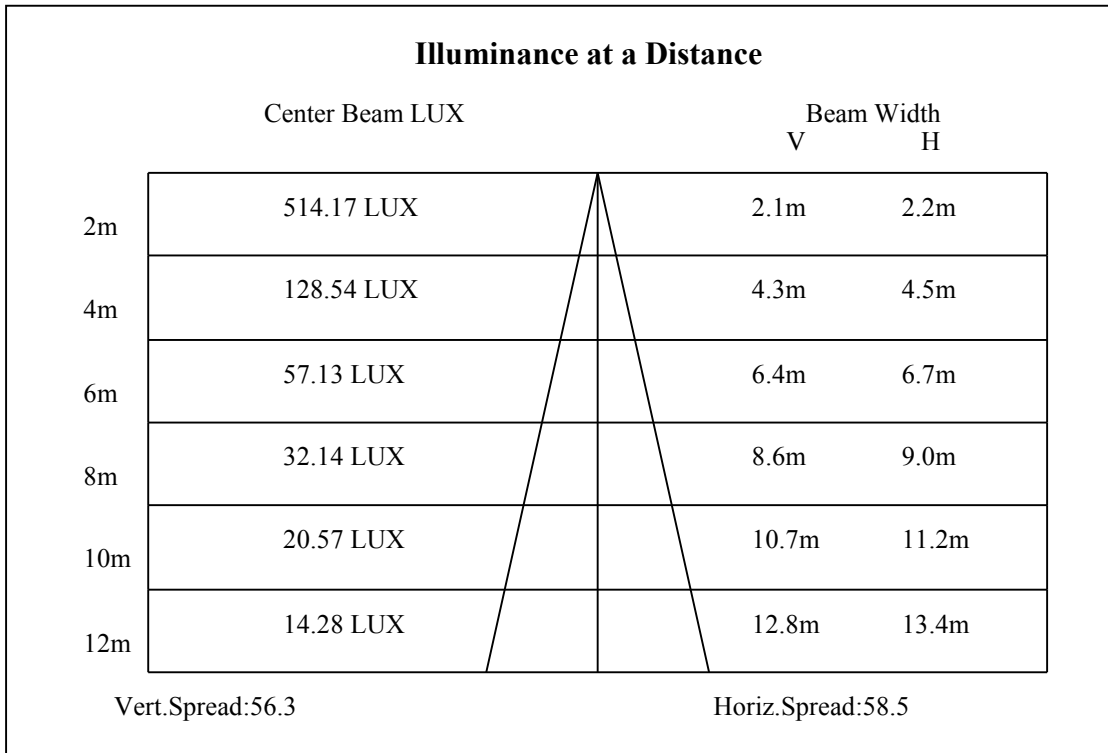
C90/C270: ——

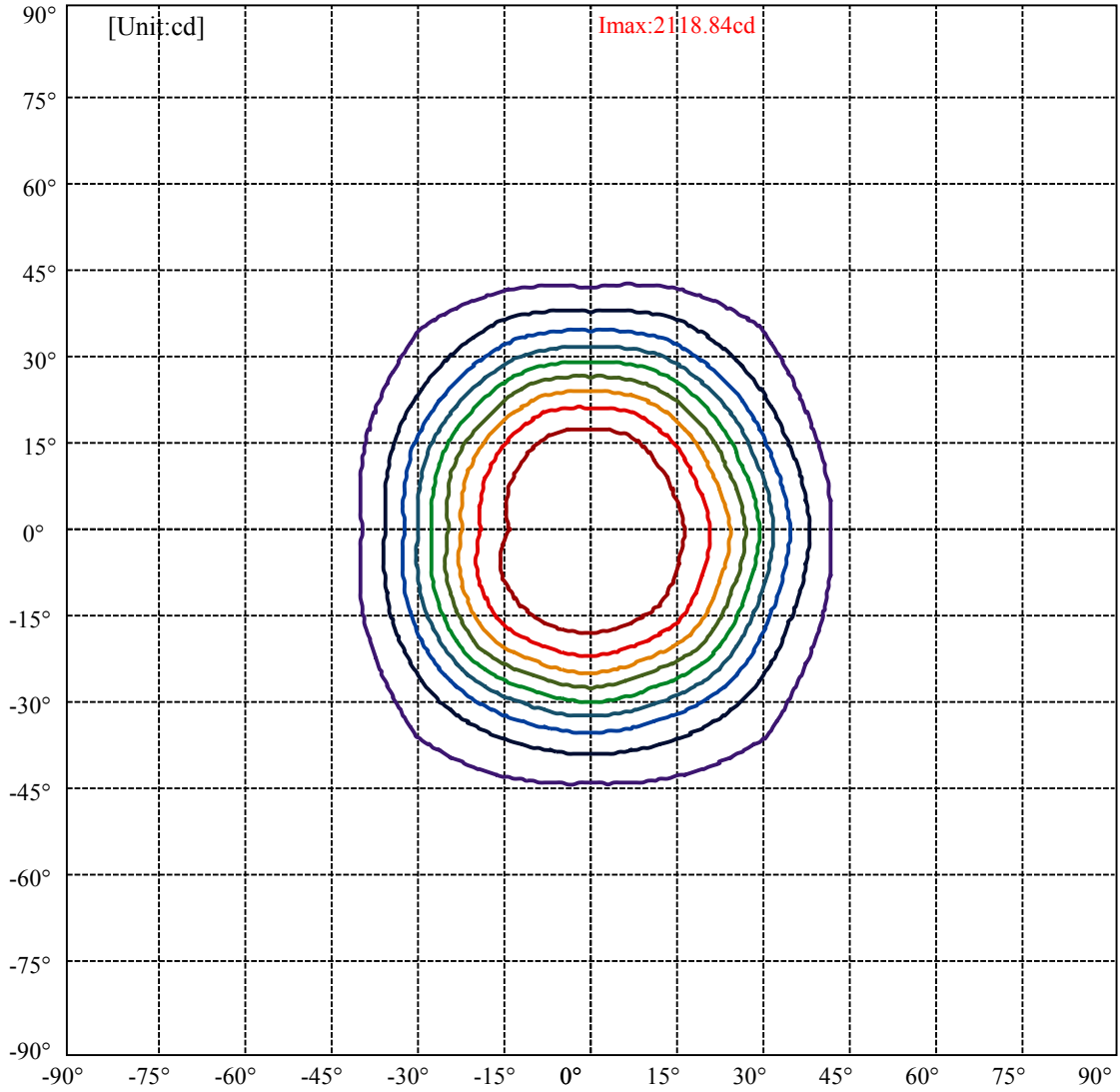
Field angle(10%Imax):C0/180Left:43.2 Right:37.3

:C90/270Left:39.5 Right:45.4

Beam Angle(50%Imax):C0/180Left:31.5 Right:25.2

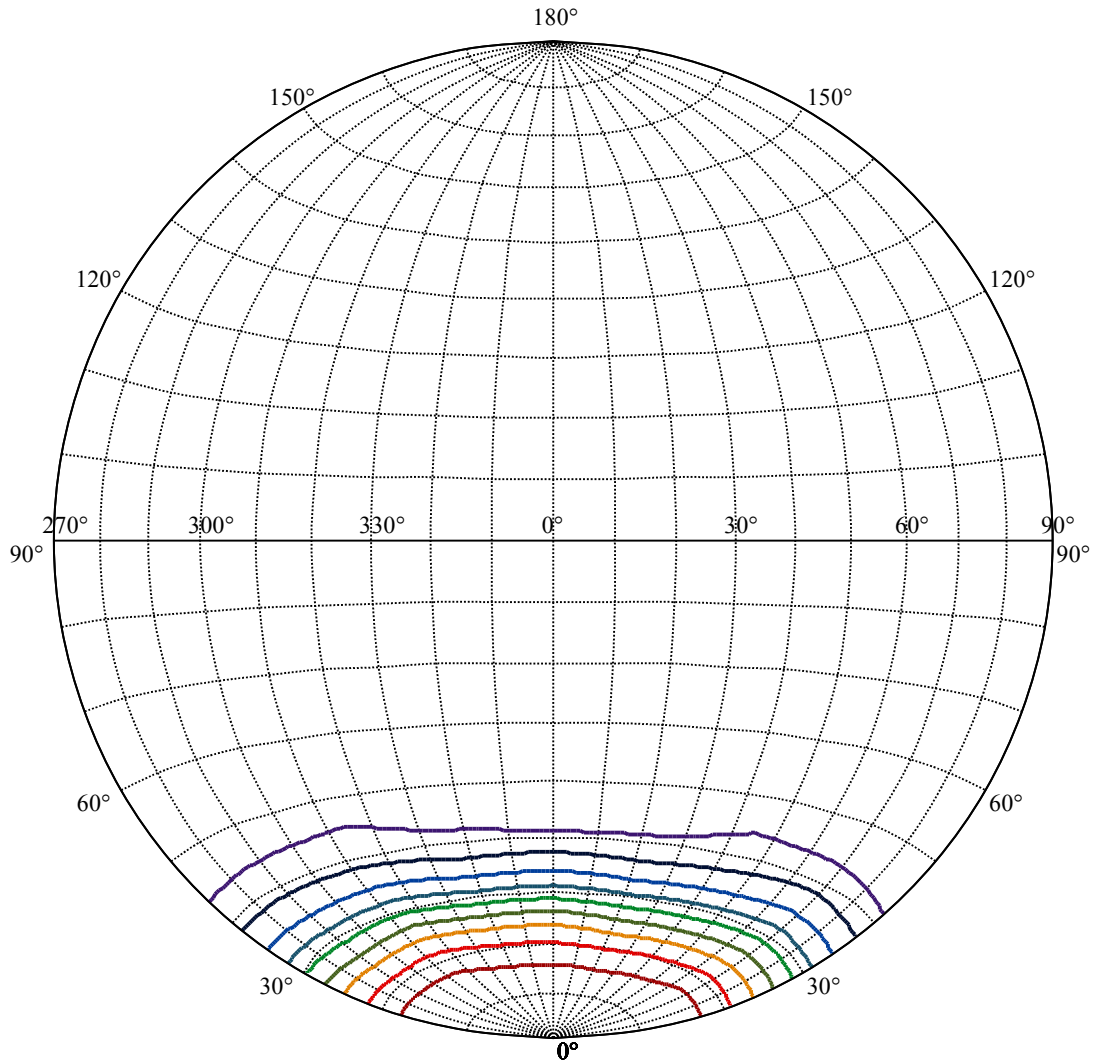
:C90/270Left:25.7 Right:32.7





(10%I <sub>max</sub> ) 211.794	—
(20%I <sub>max</sub> ) 423.587	—
(30%I <sub>max</sub> ) 635.381	—
(40%I <sub>max</sub> ) 847.174	—
(50%I <sub>max</sub> ) 1058.97	—
(60%I <sub>max</sub> ) 1270.76	—
(70%I <sub>max</sub> ) 1482.56	—
(80%I <sub>max</sub> ) 1694.35	—
(90%I <sub>max</sub> ) 1906.14	—





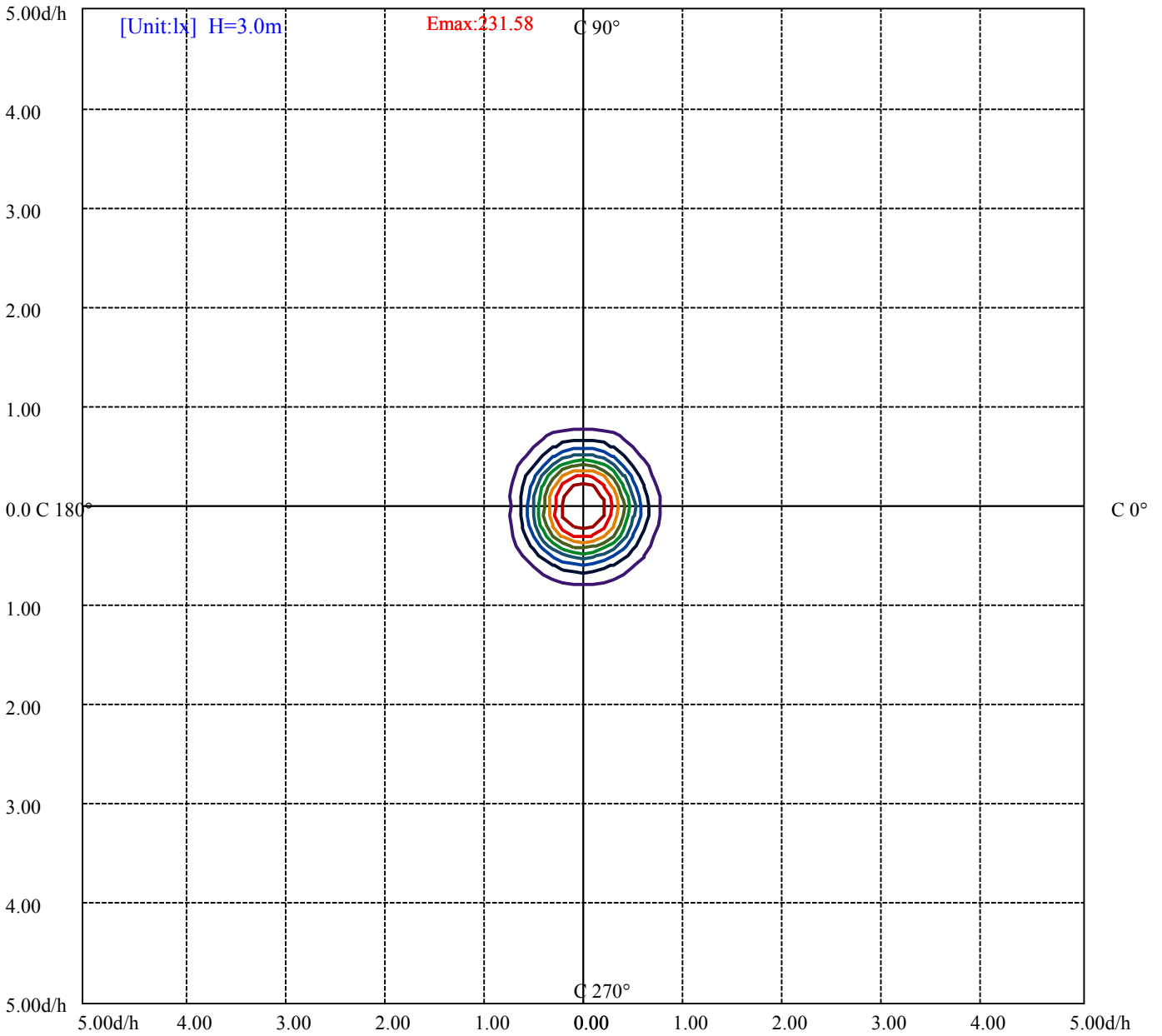
House

[Unit:cd]

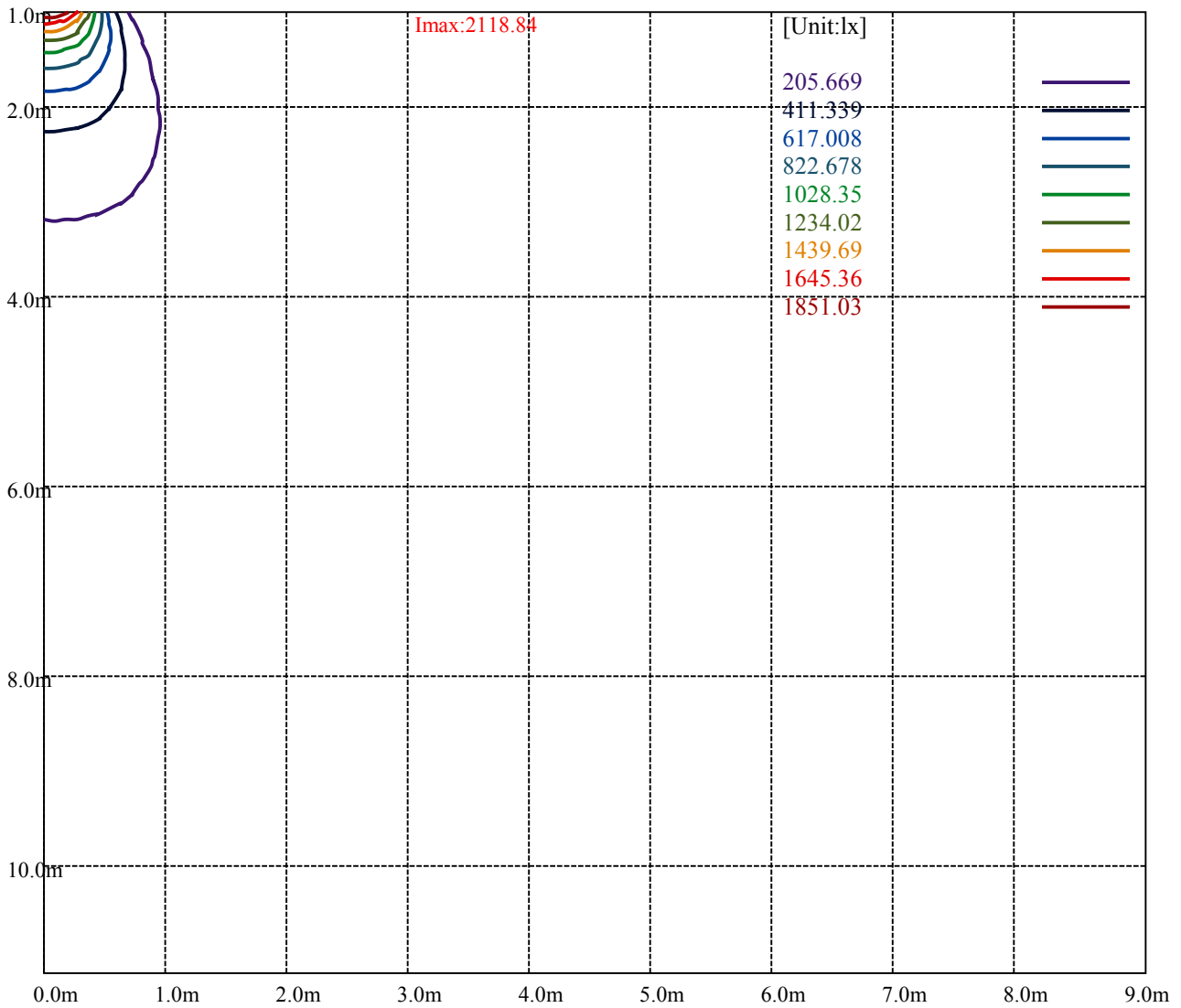
Road

**Imax:2118.84**

(10%Imax) 211.884	—
(20%Imax) 423.768	—
(30%Imax) 635.651	—
(40%Imax) 847.535	—
(50%Imax) 1059.42	—
(60%Imax) 1271.3	—
(70%Imax) 1483.19	—
(80%Imax) 1695.07	—
(90%Imax) 1906.95	—



- (10%Emax) 23.15755
- (20%Emax) 46.31522
- (30%Emax) 69.47278
- (40%Emax) 92.63033
- (50%Emax) 115.7878
- (60%Emax) 138.9456
- (70%Emax) 162.1033
- (80%Emax) 185.2611
- (90%Emax) 208.4178



Luminance Table

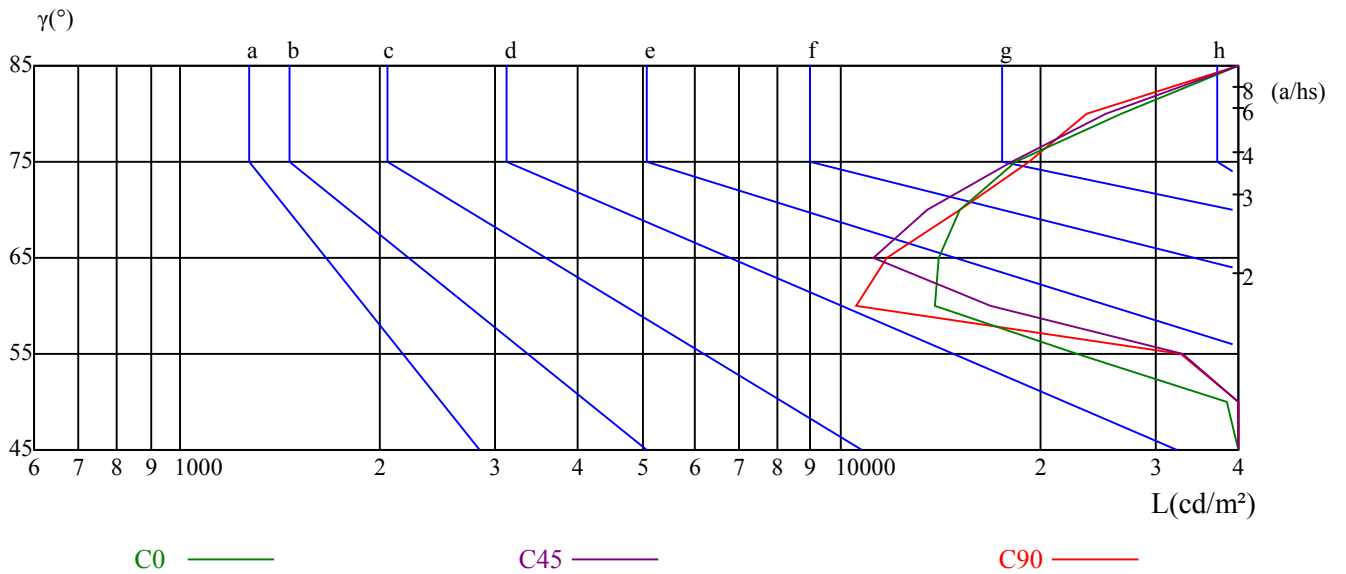
$\gamma$	45	50	55	60	65	70	75	80	85
C0	74814	38310	22818	13896	14070	15118	18355	26613	48573
C45	149446	75664	32847	16869	11241	13512	18105	25124	46349
C90	88251	54599	32622	10535	11776	15118	19229	23635	45978

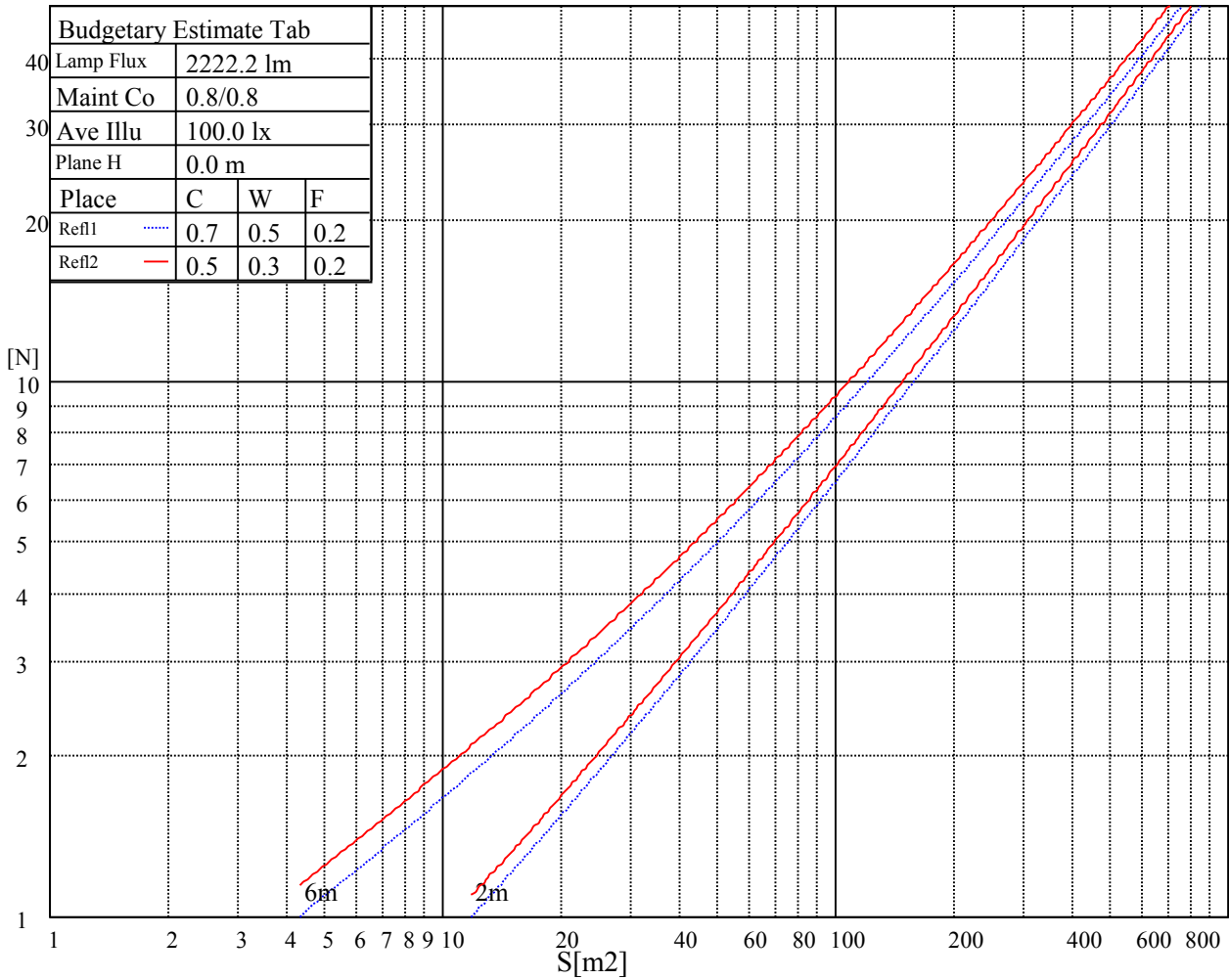
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
13879	11699	12044	19416	19104	18042	47832	46349	46719

Glare Table

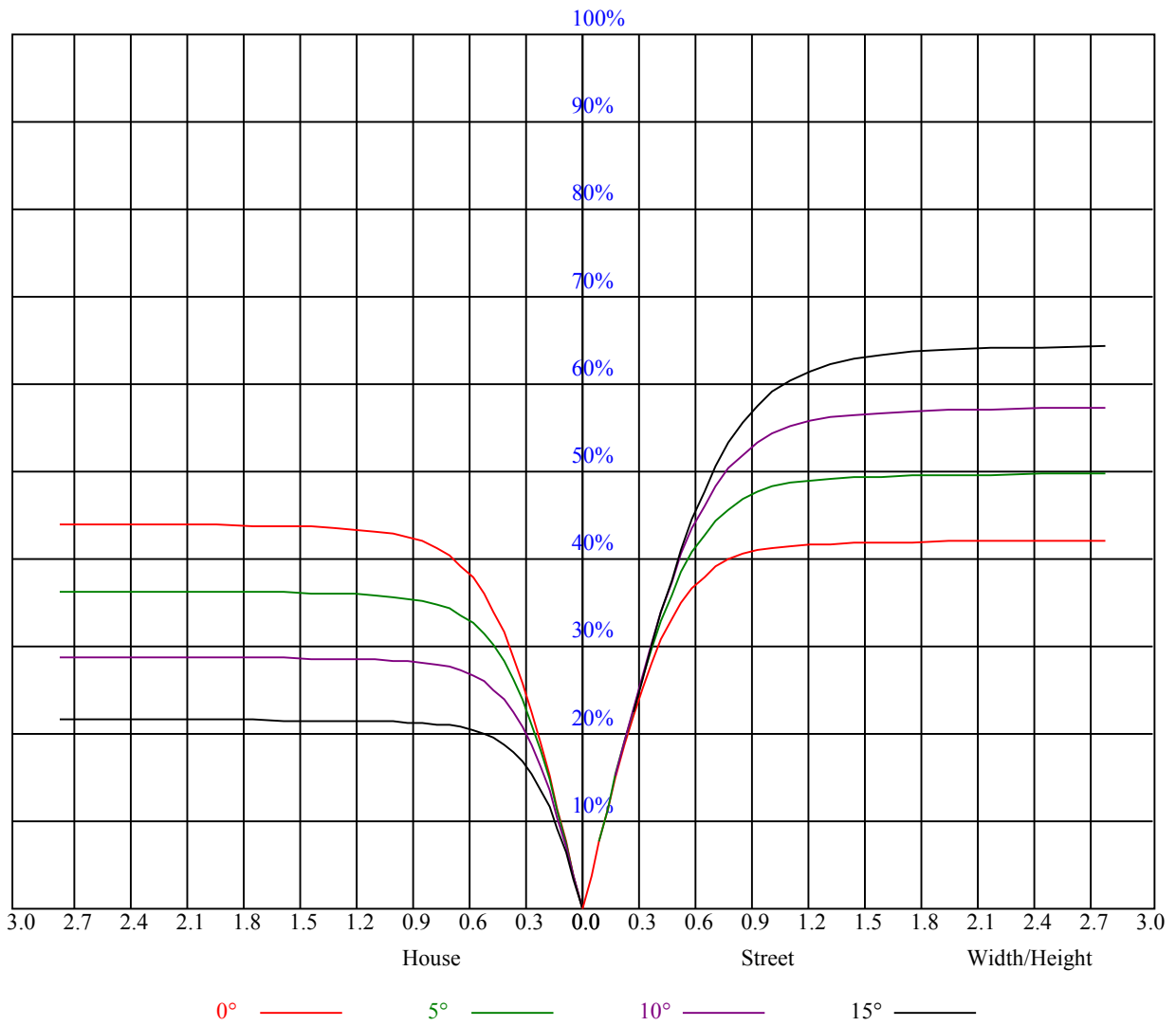
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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 RHOFC=20 CU															
0	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.87
1	0.96	0.93	0.91	0.94	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.75
3	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.69
4	0.77	0.72	0.69	0.76	0.72	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.71	0.68	0.66	0.65
5	0.72	0.67	0.63	0.71	0.67	0.63	0.70	0.66	0.62	0.68	0.65	0.62	0.67	0.64	0.61	0.60
6	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.63	0.60	0.57	0.56
7	0.64	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.53
8	0.60	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.49
9	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.47	0.46
10	0.54	0.49	0.45	0.53	0.48	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.45	0.44



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	2056.69	2060.88	2066.26	2069.24	2069.84	2068.65	2064.46	2059.08	2054.30
22.5	2081.19	2078.80	2072.83	2067.45	2068.05	2071.04	2070.44	2067.45	2061.48
45.0	2084.18	2078.80	2071.04	2074.02	2080.60	2079.40	2069.84	2062.07	2053.11
67.5	2102.70	2100.91	2100.31	2099.12	2096.13	2094.94	2092.55	2091.35	2088.96
90.0	2099.72	2097.92	2096.73	2097.33	2098.52	2099.72	2099.72	2100.31	2095.53
112.5	2099.72	2101.51	2102.11	2102.70	2103.90	2105.69	2106.89	2106.29	2105.69
135.0	2096.73	2099.12	2103.30	2109.87	2115.85	2116.45	2118.84	2117.05	2110.47
157.5	2076.41	2078.80	2080.60	2087.77	2092.55	2095.53	2092.55	2084.78	2075.22
180.0	2056.69	2055.50	2054.30	2055.50	2057.89	2061.48	2060.88	2057.29	2048.93
202.5	2081.19	2080.60	2080.00	2082.39	2082.39	2084.18	2084.78	2084.18	2080.60
225.0	2084.18	2085.38	2088.36	2093.74	2096.13	2093.14	2088.96	2085.97	2082.39
247.5	2102.70	2105.69	2106.89	2108.08	2106.89	2103.90	2099.12	2093.74	2086.57
270.0	2099.72	2102.11	2108.08	2111.07	2113.46	2110.47	2106.89	2103.30	2096.73
292.5	2099.72	2099.72	2100.31	2098.52	2096.73	2095.53	2095.53	2092.55	2088.36
315.0	2096.73	2095.53	2093.74	2094.34	2094.34	2088.36	2080.00	2074.02	2069.84
337.5	2076.41	2077.01	2079.40	2081.19	2082.99	2086.57	2091.95	2090.75	2085.97
360.0	2056.69	2060.88	2066.26	2069.24	2069.84	2068.65	2064.46	2059.08	2054.30
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2047.73	2041.16	2031.00	2019.05	1999.33	1973.04	1943.76	1908.51	1857.12
22.5	2048.33	2035.18	2018.45	2001.12	1979.61	1954.52	1925.24	1885.80	1840.39
45.0	2042.95	2032.20	2020.25	2005.31	1986.19	1968.26	1941.97	1909.11	1866.08
67.5	2083.58	2077.01	2067.45	2053.71	2035.18	2016.06	1989.17	1957.51	1924.04
90.0	2090.75	2081.79	2068.65	2053.71	2035.78	2008.89	1982.60	1952.72	1916.87
112.5	2102.70	2094.94	2085.38	2070.44	2050.12	2029.21	2004.71	1973.04	1934.80
135.0	2101.51	2087.77	2071.04	2049.52	2023.23	1996.94	1963.48	1930.02	1888.19
157.5	2064.46	2053.11	2036.38	2013.08	1983.80	1956.31	1922.85	1888.19	1843.97
180.0	2036.98	2021.44	1999.93	1974.24	1940.77	1903.13	1869.07	1832.02	1781.23
202.5	2075.22	2070.44	2064.46	2053.11	2034.59	2002.32	1974.24	1944.36	1906.12
225.0	2077.61	2071.04	2060.88	2048.33	2028.61	2010.69	1989.77	1961.69	1927.63
247.5	2081.19	2074.02	2067.45	2060.88	2046.54	2031.00	2011.88	1976.63	1946.75
270.0	2089.56	2082.39	2071.04	2060.28	2045.94	2023.83	2002.32	1977.82	1938.98
292.5	2082.39	2072.23	2063.27	2049.52	2032.20	2013.67	1990.97	1961.09	1922.85
315.0	2065.06	2059.68	2054.30	2045.34	2025.62	2007.70	1986.78	1961.09	1922.25
337.5	2078.80	2069.24	2056.10	2038.77	2008.29	1982.00	1950.93	1911.50	1866.08
360.0	2047.73	2041.16	2031.00	2019.05	1999.33	1973.04	1943.76	1908.51	1857.12
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1817.09	1774.06	1717.30	1667.70	1615.12	1549.39	1476.49	1406.58	1319.34
22.5	1794.38	1743.59	1674.87	1613.93	1548.80	1465.14	1392.24	1311.58	1227.32
45.0	1817.09	1769.28	1715.51	1642.61	1578.67	1511.75	1422.12	1348.62	1254.81
67.5	1878.03	1832.02	1775.26	1710.13	1643.80	1575.09	1483.07	1407.18	1331.29
90.0	1863.69	1815.89	1759.72	1680.25	1611.54	1539.23	1453.19	1364.76	1285.88
112.5	1891.78	1846.36	1790.79	1732.83	1659.34	1590.62	1502.19	1414.95	1335.48
135.0	1839.79	1791.99	1737.61	1660.53	1594.21	1522.50	1428.69	1351.61	1253.02
157.5	1795.57	1749.56	1691.01	1624.08	1561.94	1499.20	1410.17	1333.68	1257.20
180.0	1735.82	1686.82	1624.08	1554.77	1489.64	1411.96	1329.50	1192.01	1161.06
202.5	1864.89	1819.48	1762.11	1698.77	1638.42	1561.34	1483.66	1393.44	1306.80
225.0	1892.97	1849.35	1799.76	1749.56	1690.41	1632.45	1561.34	1481.87	1404.79
247.5	1901.93	1842.78	1797.37	1734.03	1666.51	1599.59	1527.28	1432.87	1353.40
270.0	1900.14	1857.72	1796.17	1741.20	1682.04	1603.77	1536.25	1463.95	1377.90
292.5	1881.62	1829.04	1776.45	1711.92	1642.01	1573.29	1489.64	1400.61	1321.73
315.0	1885.20	1842.78	1784.82	1732.24	1672.48	1600.78	1523.70	1452.59	1368.34
337.5	1826.05	1774.66	1726.86	1669.50	1606.16	1544.01	1468.13	1386.27	1308.59
360.0	1817.09	1774.06	1717.30	1667.70	1615.12	1549.39	1476.49	1406.58	1319.34



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	1239.28	1145.46	1051.65	969.79	880.16	794.71	720.62	649.51	568.25
22.5	1138.29	1060.02	962.62	883.15	797.10	721.22	640.55	571.24	502.52
45.0	1190.99	1092.04	1011.26	930.47	843.11	759.04	689.19	615.45	548.59
67.5	1235.09	1163.99	1082.13	995.48	911.23	846.70	759.46	685.37	626.21
90.0	1185.50	1117.38	1029.18	941.77	866.06	782.70	703.83	638.04	575.96
112.5	1264.37	1161.00	1079.14	1010.42	905.26	840.72	768.42	687.76	616.65
135.0	1182.39	1091.75	1010.60	920.31	842.52	758.26	679.63	614.68	547.46
157.5	1175.34	1074.95	985.33	902.87	805.47	735.56	651.90	579.60	508.50
180.0	1080.63	986.28	881.30	809.17	730.18	627.64	568.67	506.76	430.64
202.5	1184.60	1143.61	1030.56	957.84	875.14	774.22	696.84	622.98	555.64
225.0	1324.12	1219.56	1135.90	1051.05	947.08	866.42	789.34	706.28	629.20
247.5	1249.43	1185.56	1085.11	1005.52	927.07	832.18	760.48	691.40	618.74
270.0	1285.88	1204.02	1110.81	1030.14	939.32	852.67	778.58	698.51	625.02
292.5	1187.23	1138.11	1060.85	984.97	900.83	818.97	749.06	673.95	603.38
315.0	1288.87	1197.45	1106.62	1027.75	939.91	853.27	779.18	715.84	622.63
337.5	1188.25	1113.91	1031.04	949.06	847.71	769.68	695.76	610.02	546.56
360.0	1239.28	1145.46	1051.65	969.79	880.16	794.71	720.62	649.51	568.25
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	507.90	452.33	398.55	326.25	305.34	223.18	175.43	144.54	119.39
22.5	450.54	402.73	350.15	306.53	278.93	224.61	175.49	146.10	124.64
45.0	488.84	441.57	399.21	356.01	318.24	288.91	262.79	234.29	213.98
67.5	564.66	509.09	454.12	403.33	357.92	314.30	278.51	225.15	191.57
90.0	500.49	441.33	384.33	325.29	270.26	228.08	188.82	157.57	135.10
112.5	569.45	501.33	452.93	405.72	348.36	304.14	255.14	213.62	181.23
135.0	487.11	438.94	396.22	349.43	316.51	287.47	255.26	232.38	211.76
157.5	457.11	399.75	357.32	310.72	279.64	223.48	184.64	151.06	125.84
180.0	382.18	326.19	267.21	215.59	176.33	141.26	117.00	96.08	80.01
202.5	480.77	428.07	375.85	331.99	283.41	243.61	202.80	166.95	137.13
225.0	566.46	501.33	449.34	398.55	354.93	321.47	302.95	257.53	235.31
247.5	552.83	501.39	449.46	403.09	366.40	328.40	296.02	259.51	224.31
270.0	565.26	510.29	448.15	401.54	358.52	311.91	301.75	230.05	195.21
292.5	547.81	492.12	448.15	404.41	364.43	331.39	299.06	257.12	224.31
315.0	561.08	512.08	447.55	397.36	363.30	321.47	302.95	262.67	238.41
337.5	488.36	425.80	387.14	341.43	293.27	260.22	224.55	179.50	154.70
360.0	507.90	452.33	398.55	326.25	305.34	223.18	175.43	144.54	119.39
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	97.82	81.26	69.73	59.57	52.40	45.53	39.74	35.25	31.13
22.5	98.11	83.53	73.26	61.31	52.88	47.32	40.45	35.85	31.73
45.0	195.39	171.73	152.49	132.77	110.84	89.93	74.09	59.81	50.13
67.5	156.85	134.50	116.40	99.79	86.70	76.72	68.36	59.99	53.18
90.0	115.38	101.70	89.33	79.47	71.94	64.89	58.38	52.46	46.49
112.5	153.56	126.74	109.65	95.84	83.47	73.44	65.85	58.38	51.99
135.0	188.28	170.83	152.67	129.01	112.22	92.26	73.14	61.43	50.79
157.5	105.64	85.98	73.74	63.70	54.55	46.91	41.35	35.91	31.31
180.0	68.95	59.22	51.33	45.41	40.39	34.84	30.71	26.95	23.72
202.5	115.44	97.46	79.83	69.01	60.11	50.91	45.05	40.03	35.67
225.0	214.99	192.52	175.37	158.52	142.09	121.60	104.63	88.37	70.87
247.5	195.09	168.80	140.96	122.85	107.85	92.38	82.28	73.68	65.43
270.0	165.99	144.48	124.53	110.36	97.34	86.34	78.40	71.76	63.28
292.5	193.54	159.96	137.31	119.80	102.48	90.70	80.73	71.23	65.01
315.0	218.87	199.46	182.25	167.79	153.09	132.47	114.25	96.32	76.72
337.5	130.02	102.72	88.91	76.18	64.71	55.39	48.34	41.77	36.33
360.0	97.82	81.26	69.73	59.57	52.40	45.53	39.74	35.25	31.13

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	27.01	24.20	21.51	18.70	16.73	14.64	12.85	12.13	11.71
22.5	27.43	24.44	21.75	18.94	16.97	14.82	12.43	11.65	11.17
45.0	41.53	34.84	29.94	25.34	21.27	18.22	15.60	12.91	11.35
67.5	47.44	42.78	37.88	33.70	29.94	26.53	17.63	11.77	10.34
90.0	39.74	34.60	29.94	24.86	15.72	11.89	9.74	8.96	8.90
112.5	47.03	42.13	37.94	33.70	29.70	26.47	15.00	10.93	9.56
135.0	40.15	35.13	30.23	24.56	21.33	18.05	15.12	12.97	11.35
157.5	27.96	24.50	21.93	19.30	16.85	14.88	12.67	11.77	11.47
180.0	20.20	17.75	15.06	12.91	11.53	10.82	10.40	10.22	10.22
202.5	30.83	27.37	24.20	21.21	18.22	15.83	13.32	11.29	10.58
225.0	59.51	50.01	41.41	34.48	29.28	24.50	20.50	17.45	14.70
247.5	58.92	53.54	48.04	43.62	38.96	34.30	30.77	21.93	11.59
270.0	56.05	48.58	40.45	34.54	28.98	22.59	14.58	11.59	9.74
292.5	58.50	51.81	47.32	41.65	35.97	32.57	28.92	14.64	11.59
315.0	63.52	52.46	43.08	35.97	31.07	26.17	21.99	18.76	16.01
337.5	32.03	28.20	24.92	22.11	19.48	17.45	15.60	13.15	12.13
360.0	27.01	24.20	21.51	18.70	16.73	14.64	12.85	12.13	11.71
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.53	11.23	10.99	10.76	10.46	10.10	9.80	9.56	9.38
22.5	11.11	11.17	11.29	11.23	10.93	10.70	10.52	10.22	9.86
45.0	10.10	9.14	8.78	8.66	8.66	8.60	8.60	8.54	8.54
67.5	9.38	9.14	9.08	9.02	9.14	9.20	9.20	9.26	9.32
90.0	8.96	9.02	9.20	9.32	9.44	9.50	9.56	9.56	9.56
112.5	9.02	8.96	8.96	8.96	9.14	9.26	9.32	9.38	9.38
135.0	9.98	9.26	8.72	8.54	8.48	8.48	8.48	8.48	8.60
157.5	11.47	11.35	11.29	11.17	11.05	10.88	10.64	10.34	9.80
180.0	10.28	10.52	10.70	10.88	11.05	11.17	11.05	10.88	10.70
202.5	10.22	10.22	10.40	10.64	10.70	10.70	10.64	10.58	10.46
225.0	12.67	10.88	9.62	9.02	8.72	8.60	8.54	8.48	8.48
247.5	10.34	9.32	8.96	8.90	8.90	9.02	9.08	9.14	9.08
270.0	9.08	8.96	9.08	9.14	9.26	9.38	9.50	9.50	9.50
292.5	10.16	9.32	9.20	9.14	9.20	9.32	9.44	9.44	9.50
315.0	13.98	12.13	10.52	9.68	9.20	8.96	8.78	8.72	8.66
337.5	11.53	11.29	10.99	10.76	10.46	10.10	9.80	9.44	9.20
360.0	11.53	11.23	10.99	10.76	10.46	10.10	9.80	9.56	9.38
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.20	9.02	8.90	8.78	8.72	8.66	8.66	8.60	8.54
22.5	9.50	9.14	8.90	8.78	8.66	8.54	8.48	8.48	8.37
45.0	8.54	8.60	8.66	8.66	8.60	8.48	8.37	8.19	8.07
67.5	9.32	9.26	9.20	9.14	8.90	8.78	8.54	8.31	8.01
90.0	9.50	9.44	9.32	9.20	9.02	8.78	8.37	7.95	7.59
112.5	9.38	9.38	9.32	9.20	9.08	8.96	8.72	8.43	7.89
135.0	8.60	8.66	8.66	8.60	8.60	8.54	8.43	8.25	8.07
157.5	9.44	9.26	9.14	8.96	8.78	8.66	8.48	8.31	8.25
180.0	10.46	10.22	10.04	9.80	9.62	9.44	9.26	9.08	8.96
202.5	10.28	10.10	9.98	9.80	9.62	9.50	9.26	9.14	8.96
225.0	8.48	8.54	8.54	8.54	8.54	8.48	8.43	8.31	8.19
247.5	9.08	9.02	8.90	8.84	8.72	8.54	8.43	8.31	8.19
270.0	9.38	9.32	9.20	9.08	9.02	8.84	8.72	8.54	8.31
292.5	9.44	9.38	9.32	9.14	8.96	8.84	8.72	8.54	8.37
315.0	8.66	8.66	8.72	8.72	8.72	8.66	8.60	8.54	8.43
337.5	8.96	8.72	8.60	8.43	8.43	8.37	8.37	8.31	8.25
360.0	9.20	9.02	8.90	8.78	8.72	8.66	8.66	8.60	8.54

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	8.48	8.37	8.31	8.07	7.83	7.65	7.59	7.53	7.59
22.5	8.19	8.07	7.89	7.59	7.59	7.59	7.53	7.53	7.53
45.0	7.89	7.71	7.59	7.47	7.47	7.47	7.41	7.47	7.59
67.5	7.71	7.59	7.59	7.47	7.47	7.47	7.47	7.41	7.47
90.0	7.53	7.47	7.47	7.41	7.41	7.41	7.41	7.41	7.53
112.5	7.71	7.59	7.47	7.47	7.47	7.47	7.47	7.47	7.41
135.0	7.89	7.65	7.59	7.47	7.47	7.47	7.47	7.41	7.59
157.5	8.13	8.07	7.89	7.65	7.59	7.53	7.47	7.53	7.53
180.0	8.78	8.60	8.01	7.65	7.59	7.53	7.53	7.53	7.47
202.5	8.60	8.37	8.13	8.01	7.71	7.59	7.53	7.53	7.53
225.0	8.07	8.01	7.83	7.65	7.59	7.53	7.47	7.47	7.47
247.5	8.01	7.77	7.53	7.59	7.47	7.41	7.47	7.47	7.41
270.0	8.01	7.65	7.59	7.53	7.53	7.47	7.47	7.47	7.47
292.5	8.07	7.71	7.59	7.53	7.47	7.41	7.41	7.41	7.41
315.0	8.31	8.19	7.95	7.71	7.59	7.53	7.47	7.47	7.47
337.5	8.19	8.13	8.01	7.83	7.59	7.59	7.53	7.47	7.53
360.0	8.48	8.37	8.31	8.07	7.83	7.65	7.59	7.53	7.59
C/γ(°)	90.0								
0.0	7.53								
22.5	7.59								
45.0	7.89								
67.5	7.77								
90.0	7.65								
112.5	7.71								
135.0	7.89								
157.5	7.59								
180.0	7.53								
202.5	7.53								
225.0	7.47								
247.5	7.41								
270.0	7.41								
292.5	7.41								
315.0	7.47								
337.5	7.47								
360.0	7.53								