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Nata

LumCAT: 12-0080-M2	
Luminaire: LM07126060EM	
Report No: 220510-B002	Voltage(V): 12.4900
Test No: 220510-C002	Current(A): 1.1180
LampCAT: LUMILEDS 5050	Power (W): 13.9630
Lamp flux(lm): 1696.5	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 47
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 1433.79
Efficiency(%): 84.51%
Lumens(lm)/Power(W): 102.68
Central intensity(cd): 1631.852
Maximum intensity(cd): 1662.326
Angle of maximum intensity: C=270.0 γ =3.0
Beam Angle(50%Imax): [C0/180]Total=54.6
 [C90/270]Total=56.8
Field angle(10%Imax): [C0/180]Total=78.9
 [C90/270]Total=84.0
Maximum s/h(1/2): C0_180=0.86 C90_270=0.85
Maximum s/h(1/4): C0_180=0.80 C90_270=0.81
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.349%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1641.337	0.000	0	.000%	.000%
1.0	1641.188	1.571	1.571	.093%	.110%
2.0	1640.927	4.711	6.281	.278%	.438%
3.0	1640.479	7.848	14.129	.463%	.985%
4.0	1639.620	10.980	25.109	.647%	1.751%
5.0	1638.200	14.101	39.21	.831%	2.735%
6.0	1635.624	17.205	56.415	1.014%	3.935%
7.0	1631.814	20.281	76.696	1.195%	5.349%
8.0	1626.847	23.322	100.017	1.375%	6.976%
9.0	1619.752	26.312	126.329	1.551%	8.811%
10.0	1609.631	29.225	155.554	1.723%	10.849%
11.0	1597.905	32.050	187.604	1.889%	13.084%
12.0	1584.199	34.785	222.389	2.050%	15.511%
13.0	1564.779	37.370	259.759	2.203%	18.117%
14.0	1542.745	39.776	299.535	2.345%	20.891%
15.0	1518.471	42.026	341.561	2.477%	23.822%
16.0	1488.445	44.060	385.621	2.597%	26.895%
17.0	1452.668	45.801	431.422	2.700%	30.090%
18.0	1414.687	47.276	478.698	2.787%	33.387%
19.0	1371.628	48.476	527.174	2.857%	36.768%
20.0	1321.054	49.284	576.458	2.905%	40.205%
21.0	1267.983	49.715	626.173	2.930%	43.673%
22.0	1212.823	49.853	676.026	2.939%	47.150%
23.0	1153.156	49.645	725.67	2.926%	50.612%
24.0	1088.070	49.001	774.672	2.888%	54.030%
25.0	1024.015	48.024	822.696	2.831%	57.379%
26.0	960.192	46.837	869.533	2.761%	60.646%
27.0	894.217	45.369	914.902	2.674%	63.810%
28.0	821.460	43.437	958.339	2.560%	66.840%
29.0	755.086	41.247	999.586	2.431%	69.716%
30.0	692.275	39.078	1038.664	2.303%	72.442%
31.0	625.930	36.684	1075.348	2.162%	75.000%
32.0	563.914	34.088	1109.436	2.009%	77.378%
33.0	509.199	31.614	1141.05	1.864%	79.583%
34.0	455.145	29.184	1170.234	1.720%	81.618%
35.0	404.210	26.688	1196.922	1.573%	83.480%
36.0	361.703	24.387	1221.309	1.437%	85.181%
37.0	321.952	22.297	1243.606	1.314%	86.736%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	284.502	20.243	1263.849	1.193%	88.147%
39.0	248.184	18.182	1282.031	1.072%	89.416%
40.0	219.218	16.301	1298.332	.961%	90.553%
41.0	189.984	14.572	1312.904	.859%	91.569%
42.0	164.044	12.862	1325.766	.758%	92.466%
43.0	140.528	11.282	1337.048	.665%	93.253%
44.0	121.433	9.887	1346.936	.583%	93.942%
45.0	104.945	8.700	1355.635	.513%	94.549%
46.0	89.555	7.606	1363.242	.448%	95.080%
47.0	77.443	6.642	1369.884	.392%	95.543%
48.0	67.771	5.870	1375.754	.346%	95.952%
49.0	58.793	5.197	1380.952	.306%	96.315%
50.0	50.502	4.557	1385.509	.269%	96.633%
51.0	44.262	4.009	1389.518	.236%	96.912%
52.0	38.697	3.560	1393.078	.210%	97.161%
53.0	33.693	3.149	1396.227	.186%	97.380%
54.0	29.387	2.780	1399.007	.164%	97.574%
55.0	25.795	2.463	1401.47	.145%	97.746%
56.0	22.590	2.186	1403.657	.129%	97.898%
57.0	19.666	1.932	1405.589	.114%	98.033%
58.0	17.153	1.703	1407.291	.100%	98.152%
59.0	15.043	1.505	1408.797	.089%	98.257%
60.0	12.899	1.320	1410.117	.078%	98.349%
61.0	10.991	1.140	1411.257	.067%	98.428%
62.0	9.841	1.004	1412.26	.059%	98.498%
63.0	9.056	0.919	1413.18	.054%	98.563%
64.0	8.604	0.867	1414.046	.051%	98.623%
65.0	8.347	0.839	1414.885	.049%	98.682%
66.0	8.179	0.825	1415.71	.049%	98.739%
67.0	8.067	0.817	1416.526	.048%	98.796%
68.0	7.955	0.812	1417.338	.048%	98.853%
69.0	7.887	0.808	1418.146	.048%	98.909%
70.0	7.813	0.806	1418.952	.048%	98.965%
71.0	7.734	0.804	1419.756	.047%	99.021%
72.0	7.641	0.799	1420.555	.047%	99.077%
73.0	7.536	0.794	1421.349	.047%	99.132%
74.0	7.424	0.787	1422.136	.046%	99.187%
75.0	7.312	0.779	1422.914	.046%	99.242%

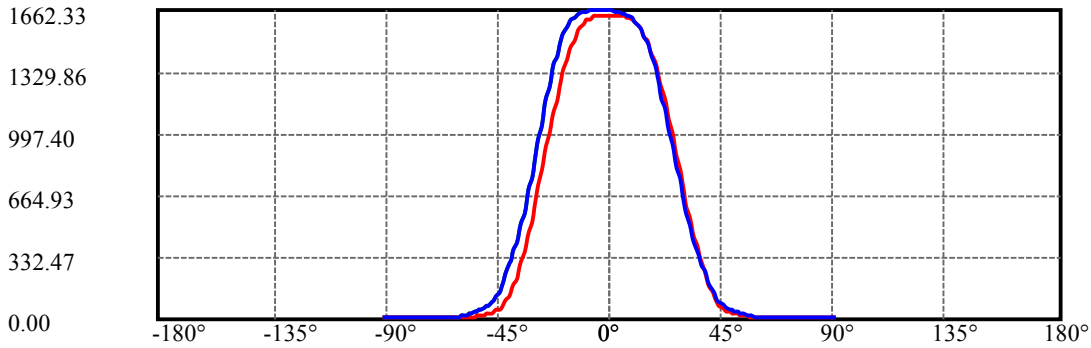
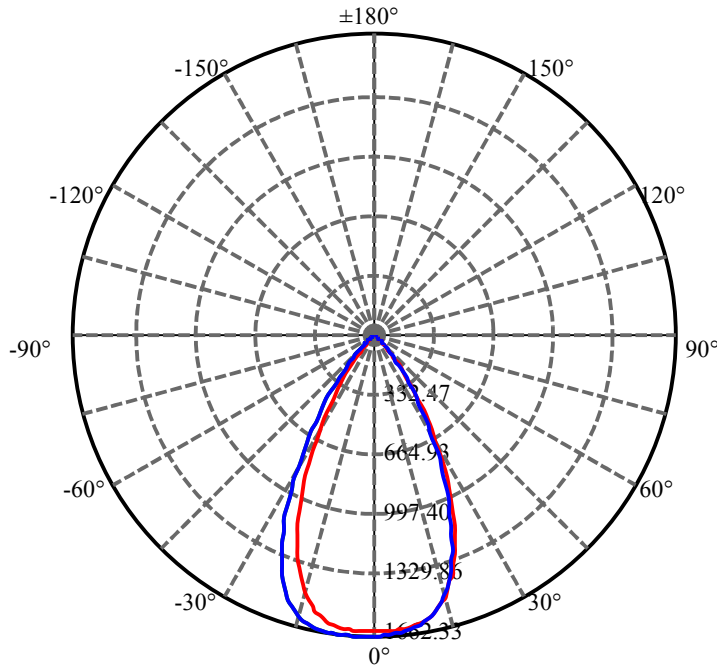
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.196	0.770	1423.684	.045%	99.295%
77.0	7.077	0.761	1424.445	.045%	99.348%
78.0	6.957	0.751	1425.197	.044%	99.401%
79.0	6.860	0.742	1425.939	.044%	99.453%
80.0	6.774	0.735	1426.674	.043%	99.504%
81.0	6.685	0.728	1427.402	.043%	99.555%
82.0	6.606	0.721	1428.123	.042%	99.605%
83.0	6.573	0.716	1428.839	.042%	99.655%
84.0	6.517	0.713	1429.552	.042%	99.705%
85.0	6.498	0.710	1430.263	.042%	99.754%
86.0	6.483	0.710	1430.972	.042%	99.804%
87.0	6.453	0.708	1431.68	.042%	99.853%
88.0	6.416	0.705	1432.385	.042%	99.902%
89.0	6.397	0.702	1433.088	.041%	99.951%
90.0	6.394	0.701	1433.789	.041%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1038.66	61.22%	72.44%
0-40	1298.33	76.53%	90.55%
0-60	1410.12	83.12%	98.35%
0-90	1433.09	84.47%	99.95%
0-120	1433.09	84.47%	99.95%
0-180	1433.79	84.51%	100.00%
60-90	24.29	1.43%	1.69%
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%
0-33.20	1147.03	67.61%	80.00%

ZONAL LUMEN SUMMARY

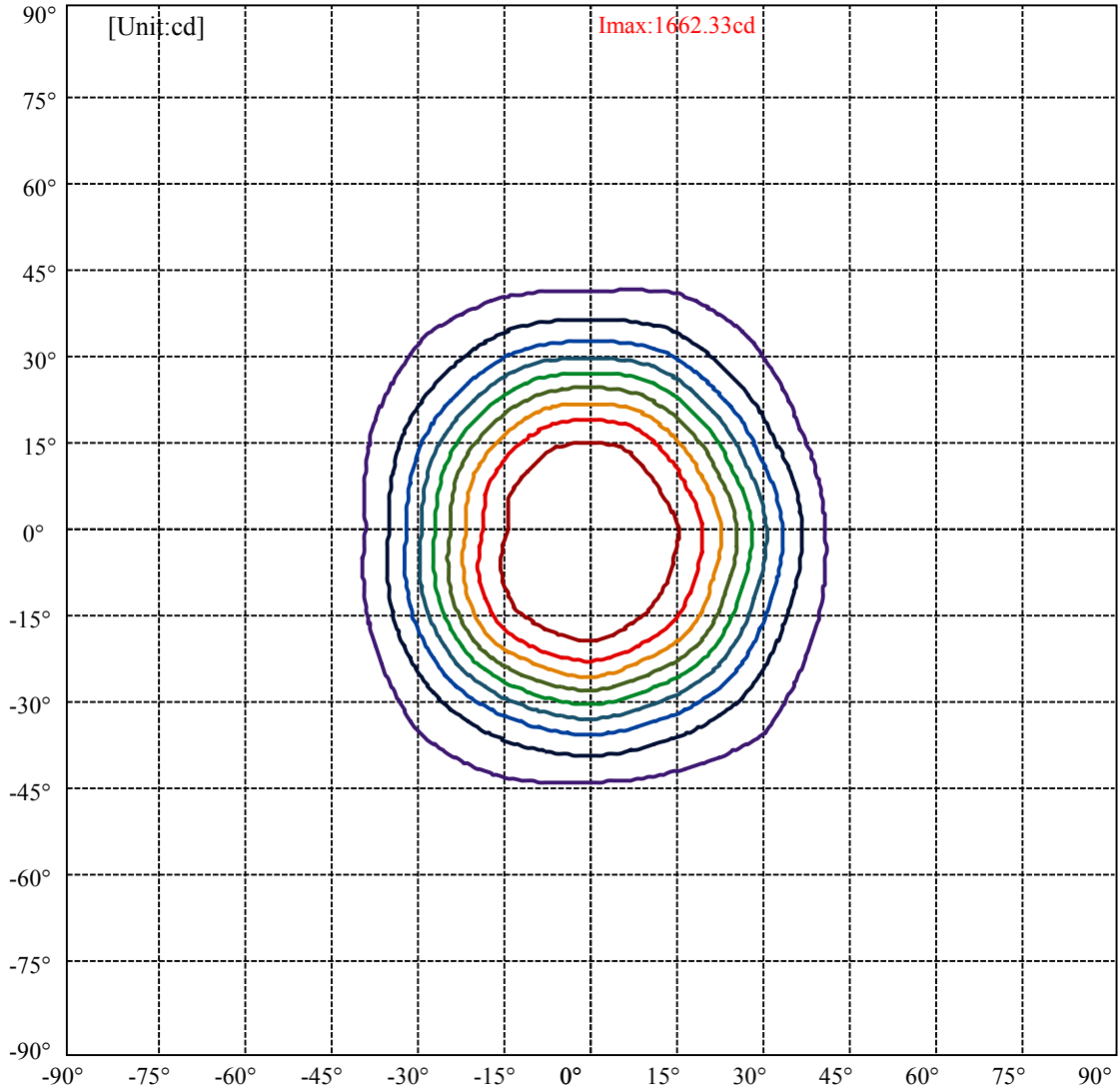
0-10	155.55
10-20	420.90
20-30	462.21
30-40	259.67
40-50	87.18
50-60	24.61
60-70	8.84
70-80	7.72
80-90	6.41
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



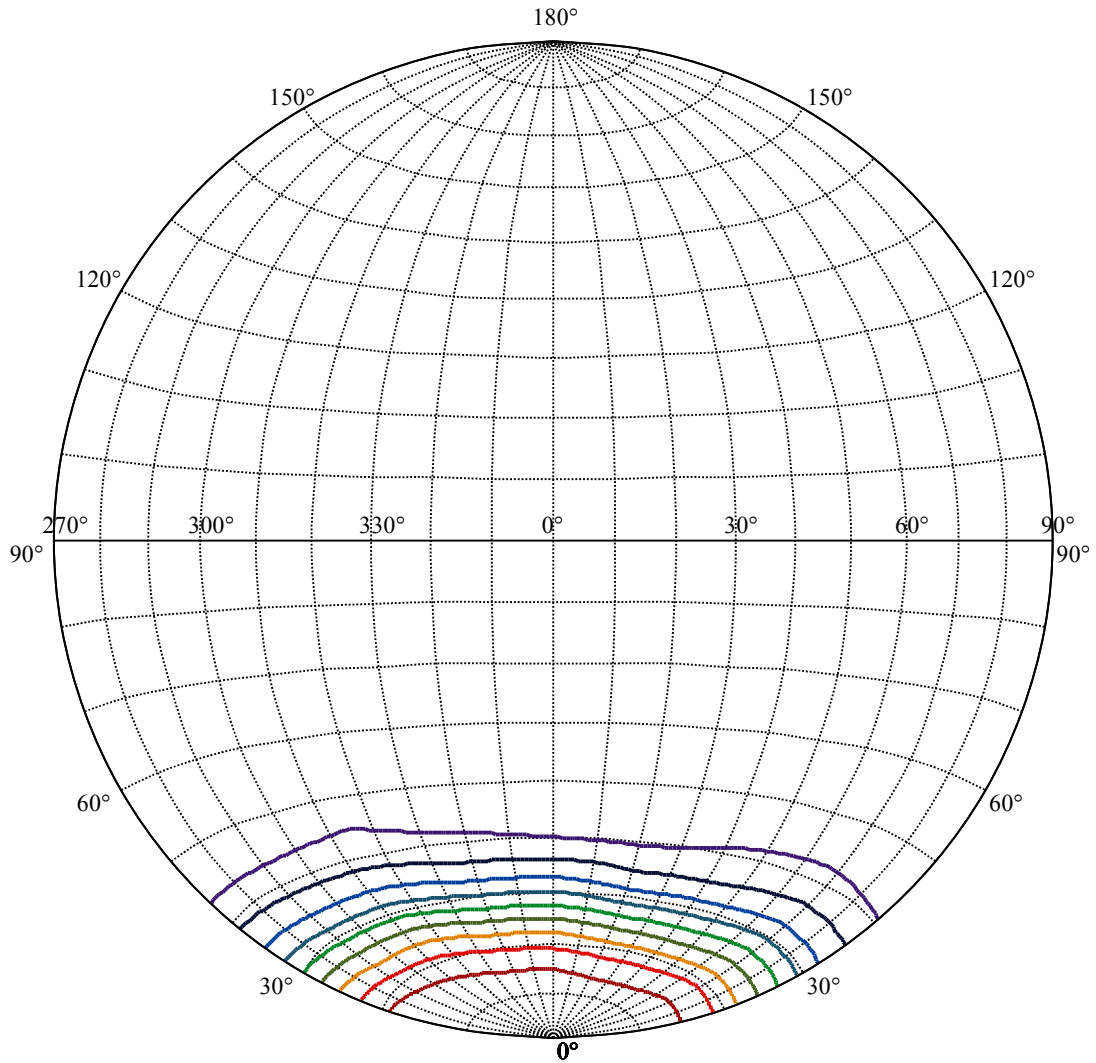
C270(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:37.6 Right:41.3
 :C90/270Left:40.3 Right:43.6

Beam Angle(50%Imax):C0/180Left:25.8 Right:28.8
 :C90/270Left:27.0 Right:29.7



(10%Imax) 166.233	—
(20%Imax) 332.465	—
(30%Imax) 498.698	—
(40%Imax) 664.93	—
(50%Imax) 831.163	—
(60%Imax) 997.395	—
(70%Imax) 1163.63	—
(80%Imax) 1329.86	—
(90%Imax) 1496.09	—



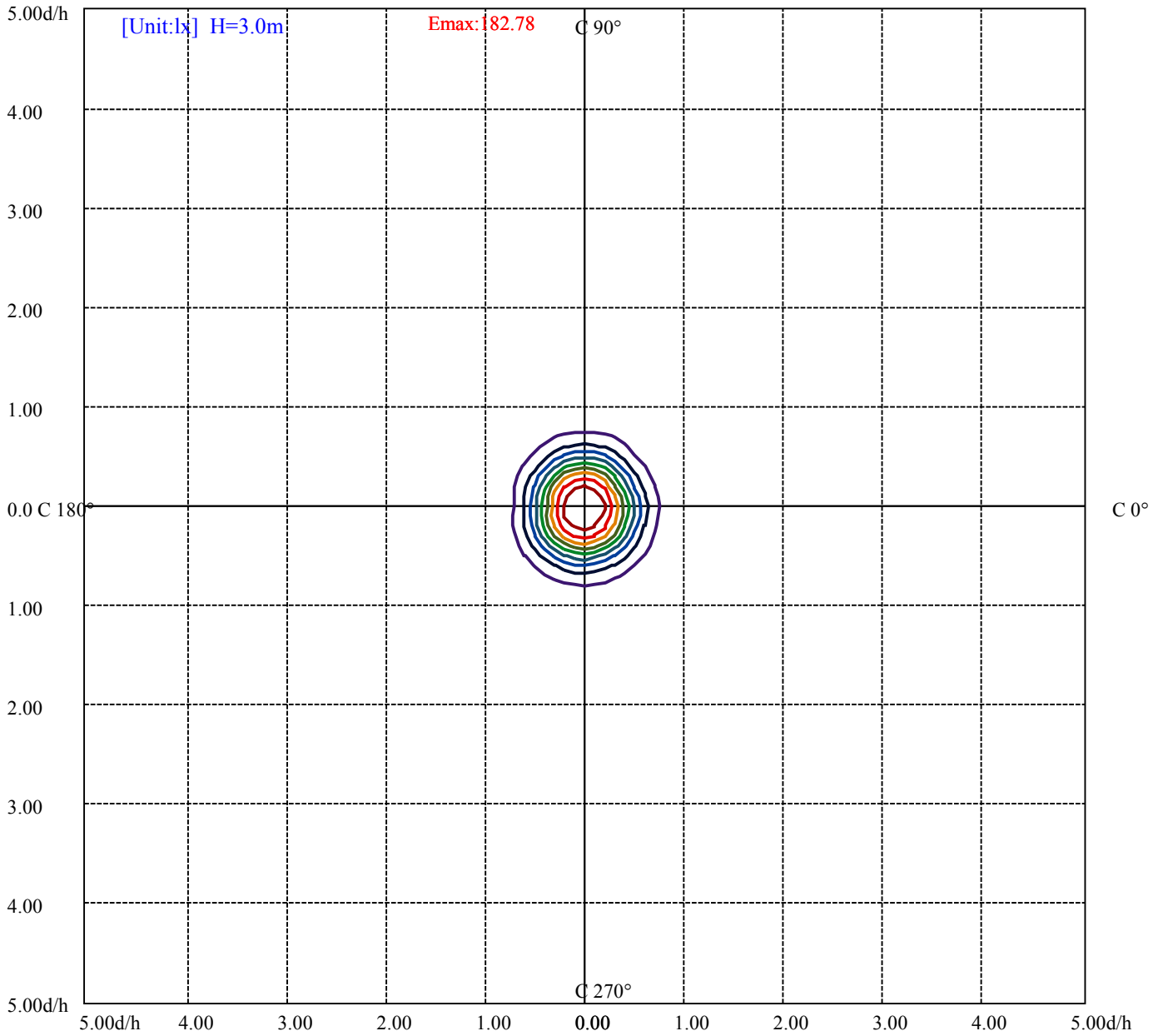
House

[Unit:cd]

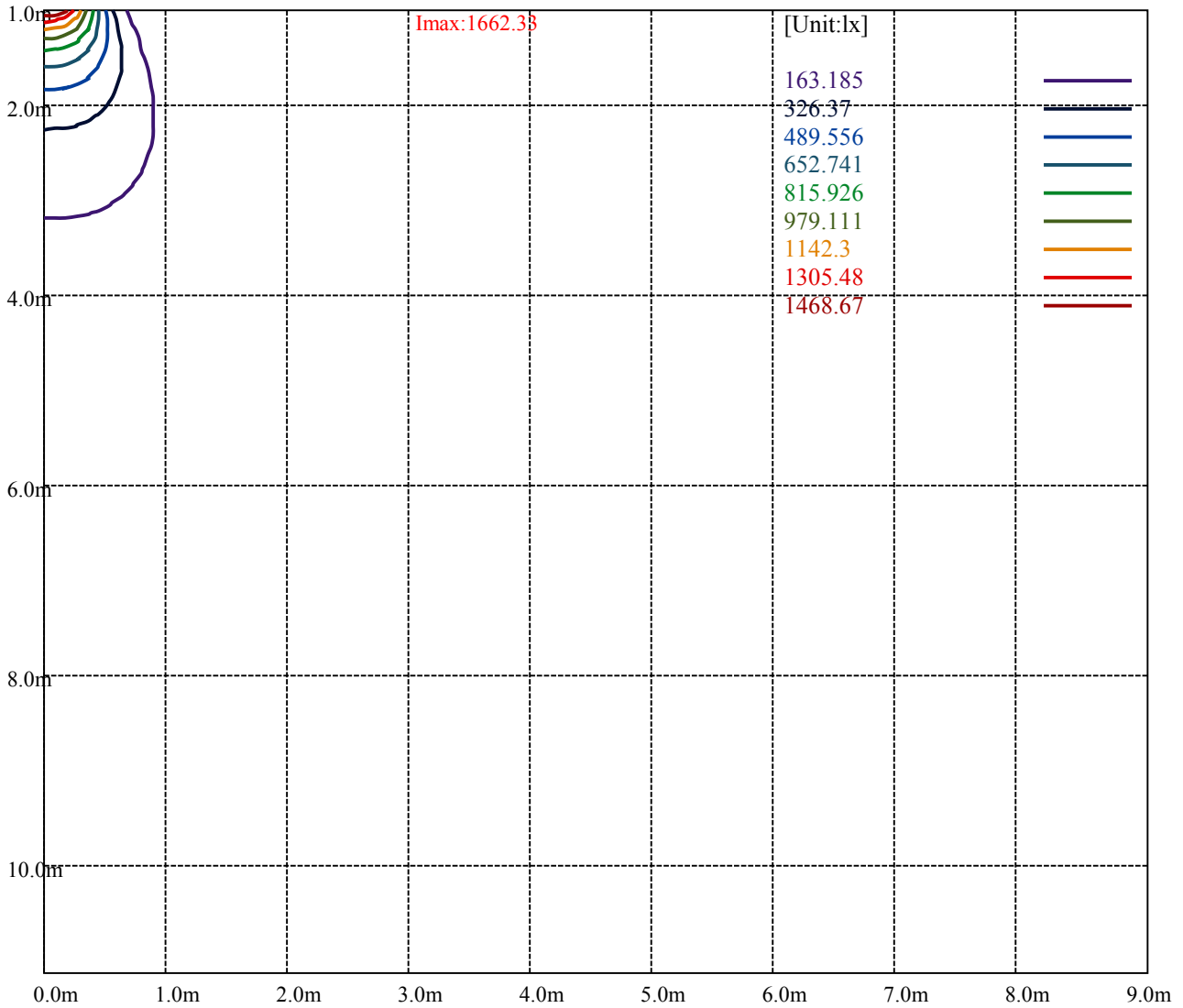
Road

Imax:1662.33

(10%Imax) 166.233	—
(20%Imax) 332.465	—
(30%Imax) 498.698	—
(40%Imax) 664.93	—
(50%Imax) 831.163	—
(60%Imax) 997.395	—
(70%Imax) 1163.63	—
(80%Imax) 1329.86	—
(90%Imax) 1496.09	—



- (10%Emax) 18.27778 ———
- (20%Emax) 36.55556 ———
- (30%Emax) 54.83322 ———
- (40%Emax) 73.111 ———
- (50%Emax) 91.38878 ———
- (60%Emax) 109.6666 ———
- (70%Emax) 127.9444 ———
- (80%Emax) 146.2222 ———
- (90%Emax) 164.5 ———



Luminance Table

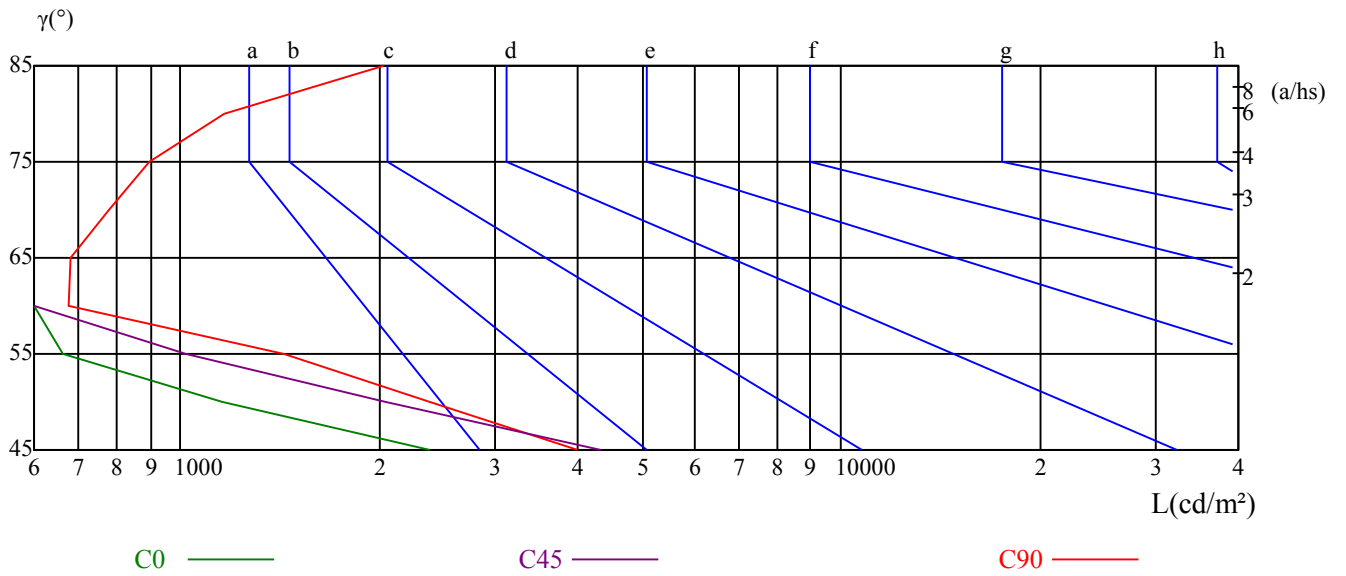
γ	45	50	55	60	65	70	75	80	85
C0	2379	1158	663	390	350	358	370	399	463
C45	4340	2045	1022	573	469	485	486	505	591
C90	3992	2388	1433	677	682	779	899	1168	2027

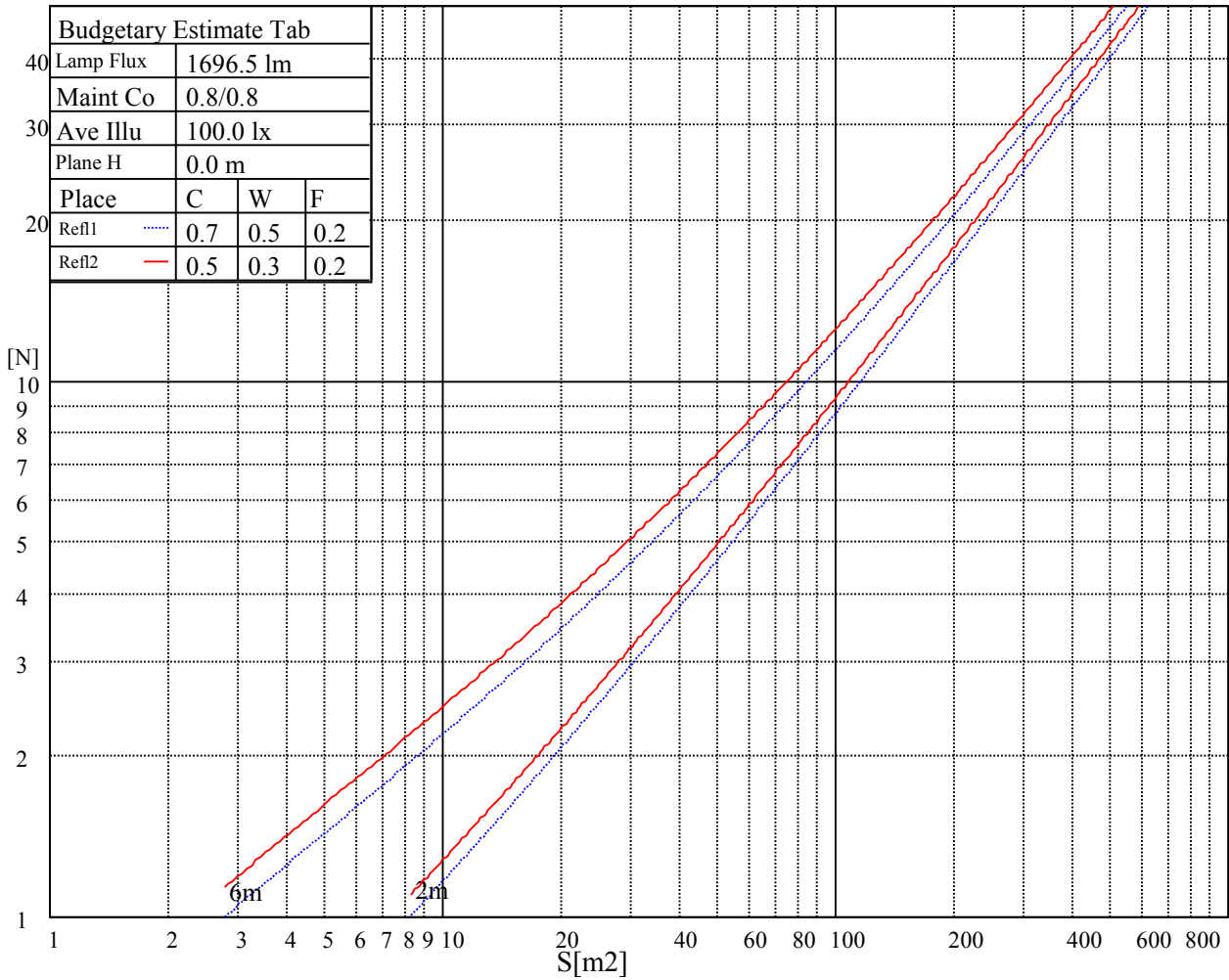
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
657	691	813	961	1017	1041	2687	2828	2841

Glare Table

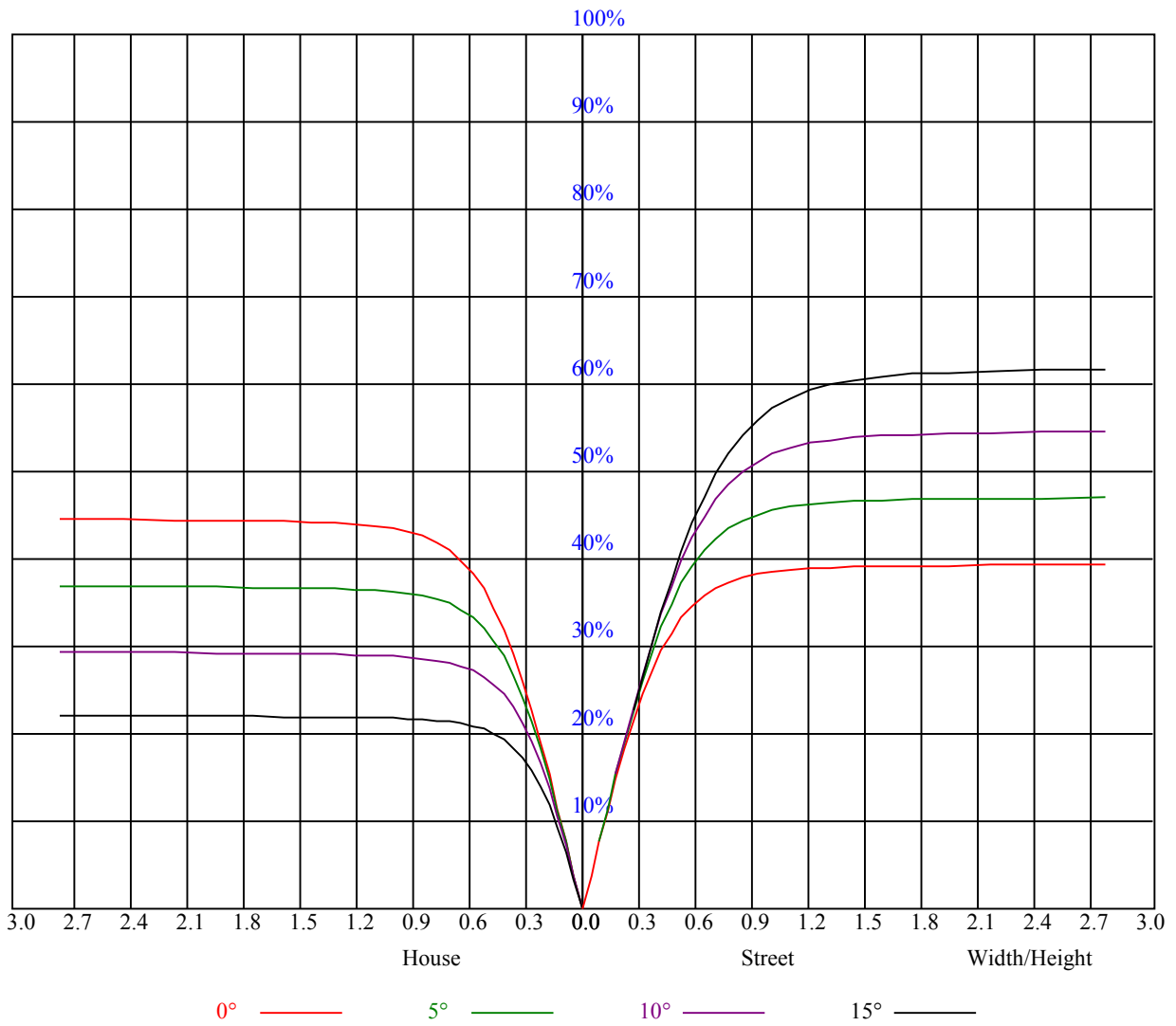
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.01	1.01	1.01	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.85
1	0.93	0.91	0.89	0.91	0.90	0.88	0.88	0.86	0.85	0.85	0.84	0.82	0.82	0.81	0.80	0.79
2	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.74	0.73
3	0.81	0.77	0.73	0.80	0.76	0.73	0.77	0.74	0.71	0.75	0.73	0.70	0.73	0.71	0.69	0.68
4	0.76	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.63
5	0.71	0.66	0.62	0.70	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.59
6	0.67	0.61	0.58	0.66	0.61	0.58	0.65	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.56	0.55
7	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52
8	0.59	0.54	0.51	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.50	0.49
9	0.56	0.51	0.48	0.55	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.53	0.50	0.47	0.46
10	0.53	0.48	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.44	0.51	0.47	0.44	0.43



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	1631.85	1631.25	1631.25	1631.25	1630.66	1629.46	1627.67	1623.49	1617.51
22.5	1640.22	1639.62	1639.02	1638.42	1636.63	1633.64	1628.27	1621.69	1613.93
45.0	1645.00	1643.20	1640.81	1638.42	1635.44	1630.06	1623.49	1615.72	1604.96
67.5	1649.18	1647.98	1645.59	1643.20	1640.22	1636.63	1631.25	1624.68	1618.71
90.0	1659.94	1657.55	1655.75	1652.77	1648.58	1645.59	1640.81	1633.64	1626.47
112.5	1627.67	1626.47	1625.88	1625.28	1624.68	1623.49	1621.10	1617.51	1613.33
135.0	1628.86	1629.46	1630.06	1630.06	1629.46	1628.27	1625.28	1620.50	1614.52
157.5	1647.98	1647.39	1646.19	1646.19	1645.00	1643.20	1640.22	1636.63	1630.66
180.0	1631.85	1632.45	1632.45	1632.45	1632.45	1631.25	1627.67	1622.29	1614.52
202.5	1640.22	1640.22	1640.22	1640.22	1640.22	1640.22	1640.22	1639.02	1637.23
225.0	1645.00	1646.79	1648.58	1649.18	1649.78	1650.38	1649.78	1649.18	1647.98
247.5	1649.18	1650.38	1650.38	1650.38	1650.38	1649.78	1649.18	1647.98	1646.19
270.0	1659.94	1661.13	1661.73	1662.33	1662.33	1662.33	1661.73	1660.53	1659.34
292.5	1627.67	1628.27	1628.86	1629.46	1630.06	1630.66	1630.66	1630.66	1630.06
315.0	1628.86	1628.27	1628.27	1628.27	1627.67	1627.07	1625.28	1622.29	1619.30
337.5	1647.98	1648.58	1649.78	1649.78	1650.38	1649.18	1647.39	1643.20	1634.84
360.0	1631.85	1631.25	1631.25	1631.25	1630.66	1629.46	1627.67	1623.49	1617.51
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1609.74	1598.39	1585.24	1572.10	1545.81	1521.91	1498.60	1460.36	1421.52
22.5	1600.78	1584.05	1565.53	1544.61	1513.54	1485.46	1453.79	1410.17	1371.33
45.0	1593.01	1576.88	1560.75	1542.22	1517.72	1489.04	1458.57	1423.31	1374.32
67.5	1609.15	1597.20	1584.65	1569.11	1545.81	1523.10	1496.21	1461.56	1420.92
90.0	1617.51	1602.57	1588.23	1571.50	1548.20	1519.52	1489.64	1456.78	1413.16
112.5	1607.35	1596.60	1585.24	1571.50	1552.38	1528.48	1503.38	1470.52	1431.08
135.0	1606.16	1591.82	1578.07	1561.94	1537.44	1514.14	1487.85	1449.01	1413.75
157.5	1621.69	1610.94	1594.80	1576.88	1553.58	1525.49	1496.81	1460.36	1417.34
180.0	1605.56	1591.82	1576.88	1558.36	1529.67	1502.19	1468.13	1433.47	1389.85
202.5	1633.05	1625.28	1616.91	1604.96	1590.02	1570.90	1550.59	1523.70	1494.42
225.0	1646.19	1642.61	1636.63	1629.46	1619.90	1604.37	1588.83	1570.90	1542.22
247.5	1642.61	1639.02	1634.84	1628.27	1621.10	1610.94	1593.61	1576.88	1550.59
270.0	1656.35	1653.36	1649.18	1642.61	1633.64	1622.89	1607.35	1587.63	1565.53
292.5	1627.67	1624.08	1618.11	1609.74	1598.99	1585.84	1567.92	1548.20	1520.11
315.0	1612.73	1606.76	1598.39	1586.44	1570.90	1554.77	1532.66	1509.96	1480.08
337.5	1626.47	1612.73	1593.01	1577.48	1557.76	1524.89	1501.59	1472.31	1436.46
360.0	1609.74	1598.39	1585.24	1572.10	1545.81	1521.91	1498.60	1460.36	1421.52
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1388.66	1338.46	1290.07	1248.84	1186.69	1133.51	1077.34	1004.45	942.90
22.5	1328.31	1277.52	1223.14	1169.96	1103.04	1038.51	981.14	907.65	846.10
45.0	1331.89	1286.48	1191.95	1164.29	1107.16	1041.19	974.57	915.24	847.54
67.5	1377.30	1330.10	1270.35	1217.76	1154.43	1098.86	1033.13	966.20	907.05
90.0	1364.16	1309.78	1258.40	1192.25	1135.66	1070.23	1011.20	944.16	876.22
112.5	1390.45	1340.86	1289.47	1229.12	1165.78	1108.42	1052.85	975.17	914.82
135.0	1374.32	1318.15	1274.53	1188.25	1145.34	1086.01	1018.31	949.71	888.17
157.5	1377.30	1333.68	1274.53	1224.34	1171.16	1097.66	1037.91	973.37	903.46
180.0	1346.83	1294.85	1238.68	1181.49	1119.53	1062.88	996.80	928.38	865.10
202.5	1457.37	1414.95	1373.12	1320.54	1261.38	1186.10	1141.52	1065.87	1004.86
225.0	1514.74	1483.07	1443.03	1397.62	1352.21	1295.44	1239.87	1174.14	1102.44
247.5	1516.53	1489.04	1453.79	1395.83	1353.40	1300.82	1186.33	1162.73	1098.56
270.0	1536.25	1505.18	1465.14	1417.94	1370.13	1311.58	1248.24	1187.89	1123.35
292.5	1487.25	1452.59	1408.38	1357.59	1306.20	1243.46	1165.06	1110.15	1046.75
315.0	1446.02	1413.16	1373.12	1327.71	1281.70	1231.51	1163.99	1105.43	1043.29
337.5	1397.62	1358.18	1309.19	1254.21	1191.35	1144.33	1080.87	1013.71	952.46
360.0	1388.66	1338.46	1290.07	1248.84	1186.69	1133.51	1077.34	1004.45	942.90

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	880.76	803.08	740.94	680.59	607.09	552.12	497.14	439.78	387.20
22.5	777.98	708.07	643.54	590.36	512.08	460.69	418.27	357.92	319.08
45.0	786.59	717.75	649.28	590.48	534.61	469.96	422.51	379.55	332.05
67.5	846.70	772.01	710.46	653.70	583.19	535.39	486.39	438.59	390.78
90.0	816.11	755.87	681.06	623.04	567.47	503.00	455.14	410.98	366.11
112.5	856.86	779.78	720.62	665.05	601.11	538.37	488.78	437.39	391.38
135.0	826.32	748.76	686.98	626.93	570.16	504.25	455.85	411.94	362.28
157.5	834.15	770.81	697.32	635.77	568.25	510.29	461.89	404.53	357.32
180.0	800.93	722.47	660.15	598.43	530.31	466.91	413.79	359.17	307.31
202.5	942.36	869.70	795.31	730.48	661.05	592.27	533.00	470.37	419.47
225.0	1035.52	959.63	883.75	816.82	751.69	672.22	611.27	553.91	486.39
247.5	1033.13	949.35	882.13	816.16	744.34	674.91	615.51	552.12	493.56
270.0	1040.30	972.78	906.45	832.96	761.25	700.30	632.19	568.85	515.67
292.5	974.63	901.79	837.86	768.12	700.78	642.88	580.14	527.02	471.63
315.0	972.78	901.67	838.93	769.02	701.50	642.34	579.60	525.83	469.06
337.5	882.37	809.83	746.61	678.49	620.00	556.72	495.71	444.38	398.07
360.0	880.76	803.08	740.94	680.59	607.09	552.12	497.14	439.78	387.20
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	343.58	305.34	251.92	210.81	171.85	141.61	114.07	91.96	76.48
22.5	305.34	239.25	203.58	174.72	144.12	120.40	97.88	79.77	67.22
45.0	298.82	269.61	237.58	214.93	194.97	172.69	157.93	139.94	121.36
67.5	353.74	316.69	302.35	256.46	229.69	206.80	181.41	155.84	134.50
90.0	326.13	292.73	256.88	219.11	186.85	154.64	129.96	107.56	90.29
112.5	354.93	317.89	301.75	253.71	226.40	194.14	166.35	138.09	114.19
135.0	327.39	295.84	264.23	236.68	214.93	193.18	176.03	158.64	143.53
157.5	317.29	304.14	242.66	214.21	188.10	160.50	134.68	114.37	94.47
180.0	264.94	221.56	186.01	150.28	120.52	99.01	81.92	65.97	56.17
202.5	367.48	319.50	278.81	242.06	201.13	170.12	141.91	110.18	93.87
225.0	436.79	390.78	344.18	304.74	284.54	245.17	218.82	195.93	174.72
247.5	446.12	398.31	360.43	322.01	288.19	261.24	235.67	204.47	180.33
270.0	459.50	414.09	366.88	323.26	304.14	247.08	204.83	174.60	148.01
292.5	421.20	380.92	340.35	303.96	273.73	244.27	207.40	179.38	153.15
315.0	417.67	375.25	337.60	304.14	266.08	241.46	214.87	196.29	179.62
337.5	346.33	309.34	276.84	239.85	212.24	187.44	160.97	135.46	115.02
360.0	343.58	305.34	251.92	210.81	171.85	141.61	114.07	91.96	76.48
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	64.23	52.64	45.47	39.80	34.48	30.06	26.77	23.60	20.85
22.5	56.05	47.38	41.23	36.09	30.95	27.61	24.56	21.63	19.06
45.0	108.99	94.05	79.23	69.79	60.11	48.88	42.90	36.99	31.25
67.5	115.32	94.95	81.92	71.34	61.37	53.48	47.26	41.59	36.93
90.0	78.28	68.72	59.39	53.36	48.40	42.84	38.72	34.72	30.23
112.5	96.86	81.50	69.79	61.43	55.39	47.50	42.66	39.08	34.66
135.0	130.86	117.29	103.37	90.76	78.10	63.88	53.72	45.23	37.52
157.5	77.86	65.97	55.21	47.44	40.33	34.60	30.41	26.89	23.24
180.0	48.22	40.51	35.61	31.61	27.61	24.14	21.39	18.70	16.55
202.5	78.40	64.41	53.60	46.07	39.32	33.82	29.76	26.05	23.06
225.0	157.39	139.04	121.84	107.08	93.10	77.38	66.45	57.12	49.18
247.5	157.03	130.26	111.86	96.38	82.16	70.57	61.78	54.02	47.92
270.0	120.58	103.37	89.51	77.20	67.22	60.11	53.36	48.58	43.68
292.5	129.78	105.88	91.12	79.35	67.46	59.69	53.12	47.15	42.19
315.0	164.50	147.41	134.44	121.78	107.56	93.33	80.79	67.22	55.57
337.5	94.77	79.47	65.49	54.85	47.15	40.15	34.54	30.59	27.19
360.0	64.23	52.64	45.47	39.80	34.48	30.06	26.77	23.60	20.85

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	18.64	16.37	14.70	12.97	11.17	10.04	9.08	8.43	8.19
22.5	17.03	14.94	13.03	11.59	10.10	9.26	8.37	7.89	7.77
45.0	26.53	23.00	19.78	17.09	15.12	13.32	12.01	10.76	9.98
67.5	33.16	29.58	26.65	23.72	21.03	18.76	16.49	11.71	10.16
90.0	26.17	23.12	19.84	17.03	12.67	10.52	9.62	9.08	8.84
112.5	31.01	28.32	24.98	22.17	20.02	15.72	11.35	10.28	9.44
135.0	31.19	26.77	22.71	19.48	17.09	14.94	13.27	11.65	10.40
157.5	20.67	18.46	16.01	14.40	12.97	11.71	10.10	9.50	9.14
180.0	14.40	12.43	10.93	9.68	8.84	8.37	8.07	7.83	7.65
202.5	20.20	17.63	15.66	13.86	11.83	10.22	9.20	8.19	7.71
225.0	40.81	35.19	30.35	25.22	21.75	18.82	16.07	13.92	12.25
247.5	42.25	37.47	33.76	30.18	26.71	23.90	21.09	17.87	14.10
270.0	39.02	34.60	29.76	25.69	22.65	19.60	14.58	10.34	8.72
292.5	38.36	34.48	31.13	27.19	24.32	21.75	17.51	12.37	9.56
315.0	47.03	39.02	33.04	27.43	23.06	20.02	17.27	15.06	13.38
337.5	23.72	21.33	19.12	16.97	15.12	13.74	12.31	10.99	10.16
360.0	18.64	16.37	14.70	12.97	11.17	10.04	9.08	8.43	8.19
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.95	7.77	7.59	7.47	7.35	7.23	7.17	7.11	6.99
22.5	7.65	7.65	7.59	7.59	7.71	7.83	8.01	8.13	8.07
45.0	9.50	9.26	9.02	8.96	8.84	8.72	8.60	8.43	8.25
67.5	9.56	9.08	8.90	8.72	8.54	8.37	8.25	8.13	8.01
90.0	8.66	8.48	8.31	8.19	8.13	8.01	7.89	7.83	7.65
112.5	9.14	9.02	8.72	8.54	8.43	8.31	8.25	8.13	7.95
135.0	9.74	9.26	9.08	8.90	8.72	8.54	8.37	8.19	8.01
157.5	8.84	8.72	8.66	8.60	8.60	8.54	8.48	8.43	8.43
180.0	7.47	7.35	7.29	7.23	7.23	7.11	7.05	6.93	6.87
202.5	7.53	7.41	7.35	7.35	7.35	7.41	7.53	7.77	8.07
225.0	10.88	9.80	9.14	8.72	8.54	8.25	8.01	7.71	7.47
247.5	10.04	8.31	7.71	7.47	7.23	7.11	7.05	6.99	6.99
270.0	7.89	7.53	7.35	7.17	7.11	7.11	7.11	7.17	7.17
292.5	8.43	8.01	7.77	7.59	7.47	7.41	7.41	7.41	7.47
315.0	11.89	10.46	9.56	8.96	8.48	8.13	7.95	7.71	7.53
337.5	9.74	9.56	9.50	9.38	9.32	9.20	9.08	8.96	8.84
360.0	7.95	7.77	7.59	7.47	7.35	7.23	7.17	7.11	6.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.93	6.81	6.69	6.63	6.57	6.45	6.45	6.39	6.33
22.5	8.01	7.89	7.77	7.71	7.53	7.41	7.17	7.05	6.87
45.0	8.01	7.83	7.65	7.47	7.35	7.17	6.99	6.81	6.69
67.5	7.95	7.83	7.71	7.53	7.35	7.17	6.99	6.81	6.75
90.0	7.53	7.35	7.23	7.05	6.87	6.69	6.57	6.51	6.51
112.5	7.77	7.65	7.47	7.29	7.11	6.93	6.75	6.63	6.57
135.0	7.89	7.77	7.65	7.47	7.35	7.17	6.99	6.87	6.69
157.5	8.31	8.19	8.07	7.89	7.77	7.65	7.47	7.35	7.17
180.0	6.75	6.69	6.63	6.69	6.69	6.75	6.75	6.81	6.87
202.5	8.19	8.13	8.07	8.07	7.95	7.83	7.71	7.53	7.23
225.0	7.11	6.93	6.81	6.69	6.63	6.57	6.57	6.51	6.51
247.5	7.05	7.05	6.99	6.99	6.93	6.87	6.81	6.75	6.75
270.0	7.23	7.17	7.11	7.05	6.99	6.93	6.81	6.81	6.69
292.5	7.47	7.47	7.41	7.29	7.17	7.11	6.99	6.87	6.81
315.0	7.41	7.35	7.29	7.23	7.23	7.17	7.17	7.05	7.05
337.5	8.66	8.48	8.25	7.95	7.65	7.35	7.11	6.99	6.87
360.0	6.93	6.81	6.69	6.63	6.57	6.45	6.45	6.39	6.33

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	6.27	6.21	6.27	6.27	6.33	6.45	6.33	6.04	5.80
22.5	6.75	6.57	6.39	6.21	6.09	5.98	5.92	5.92	5.98
45.0	6.57	6.51	6.51	6.45	6.51	6.57	6.57	6.57	6.51
67.5	6.69	6.69	6.69	6.69	6.75	6.75	6.69	6.63	6.57
90.0	6.51	6.51	6.57	6.63	6.63	6.63	6.57	6.57	6.51
112.5	6.57	6.57	6.57	6.63	6.69	6.69	6.63	6.63	6.57
135.0	6.63	6.63	6.69	6.75	6.87	6.81	6.75	6.75	6.69
157.5	6.93	6.69	6.51	6.33	6.33	6.39	6.51	6.51	6.51
180.0	6.87	6.87	6.87	6.69	6.21	6.04	5.74	5.62	5.68
202.5	6.99	6.69	6.57	6.39	6.21	6.04	5.92	5.80	5.80
225.0	6.45	6.39	6.39	6.33	6.33	6.33	6.39	6.45	6.51
247.5	6.69	6.63	6.63	6.57	6.57	6.63	6.69	6.63	6.63
270.0	6.63	6.57	6.57	6.51	6.57	6.57	6.63	6.57	6.57
292.5	6.75	6.75	6.63	6.63	6.69	6.75	6.69	6.63	6.63
315.0	6.99	6.87	6.87	6.81	6.81	6.75	6.87	6.87	6.87
337.5	6.63	6.51	6.39	6.33	6.33	6.33	6.33	6.45	6.51
360.0	6.27	6.21	6.27	6.27	6.33	6.45	6.33	6.04	5.80
C/γ(°)	90.0								
0.0	5.68								
22.5	5.92								
45.0	6.51								
67.5	6.51								
90.0	6.57								
112.5	6.57								
135.0	6.69								
157.5	6.51								
180.0	5.62								
202.5	5.86								
225.0	6.51								
247.5	6.63								
270.0	6.57								
292.5	6.63								
315.0	6.87								
337.5	6.63								
360.0	5.68								