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NATA

LumCAT: 2-1738-M
Luminaire: 92.70.134.00
Report No: NATA0100
Test No: GC2019012115
LampCAT: CREE CXA2520
Lamp flux(lm): 2276.0
Number of Lamps: 1
Length(mm): 71
Phm Type: C

Voltage(V): 35.9500
Current(A): 0.7000
Power (W): 25.1650
PF: 0.0000
Ballast type: DC
Width(mm): 71
Height(mm): 0

Photometric Results

Lumens(lm): 2039.85
Efficiency(%): 89.62%
Lumens(lm)/Power(W): 81.14
Central intensity(cd): 9296.016
Maximum intensity(cd): 9296.016
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=20.1
[C90/270]Total=20.1
Field angle(10%Imax): [C0/180]Total=46.1
[C90/270]Total=46.1
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.626%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9296.016	2.224	2.224	.098%	.109%
1.0	9276.469	17.754	19.978	.780%	.979%
2.0	9198.844	35.205	55.183	1.547%	2.705%
3.0	9049.289	51.936	107.118	2.282%	5.251%
4.0	8814.867	67.430	174.548	2.963%	8.557%
5.0	8397.352	80.258	254.807	3.526%	12.491%
6.0	7857.914	90.073	344.879	3.958%	16.907%
7.0	7187.414	96.055	440.934	4.220%	21.616%
8.0	6411.375	97.849	538.784	4.299%	26.413%
9.0	5539.289	95.025	633.809	4.175%	31.071%
10.0	4702.711	89.551	723.36	3.935%	35.461%
11.0	3933.563	82.307	805.667	3.616%	39.496%
12.0	3279.023	74.761	880.428	3.285%	43.161%
13.0	2741.203	67.621	948.048	2.971%	46.476%
14.0	2294.789	60.879	1008.928	2.675%	49.461%
15.0	1976.555	56.099	1065.027	2.465%	52.211%
16.0	1721.883	52.047	1117.074	2.287%	54.762%
17.0	1526.063	48.928	1166.002	2.150%	57.161%
18.0	1358.930	46.050	1212.052	2.023%	59.419%
19.0	1228.549	43.862	1255.914	1.927%	61.569%
20.0	1122.328	42.094	1298.008	1.849%	63.632%
21.0	1049.456	41.243	1339.251	1.812%	65.654%
22.0	985.852	40.498	1379.749	1.779%	67.640%
23.0	930.938	39.889	1419.638	1.753%	69.595%
24.0	882.520	39.363	1459.001	1.729%	71.525%
25.0	845.353	39.178	1498.179	1.721%	73.445%
26.0	813.087	39.087	1537.265	1.717%	75.362%
27.0	785.524	39.107	1576.373	1.718%	77.279%
28.0	763.819	39.323	1615.696	1.728%	79.206%
29.0	743.217	39.513	1655.209	1.736%	81.144%
30.0	723.804	39.686	1694.896	1.744%	83.089%
31.0	698.843	39.470	1734.366	1.734%	85.024%
32.0	659.855	38.345	1772.711	1.685%	86.904%
33.0	613.013	36.613	1809.324	1.609%	88.699%
34.0	559.645	34.318	1843.642	1.508%	90.381%
35.0	501.244	31.528	1875.17	1.385%	91.927%
36.0	433.673	27.953	1903.123	1.228%	93.297%
37.0	374.520	24.717	1927.84	1.086%	94.509%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	310.570	20.968	1948.807	.921%	95.537%
39.0	248.836	17.173	1965.98	.755%	96.378%
40.0	189.675	13.370	1979.35	.587%	97.034%
41.0	131.168	9.437	1988.787	.415%	97.497%
42.0	81.098	5.951	1994.737	.261%	97.788%
43.0	45.056	3.370	1998.107	.148%	97.953%
44.0	24.680	1.880	1999.987	.083%	98.046%
45.0	16.791	1.302	2001.289	.057%	98.109%
46.0	13.992	1.104	2002.393	.048%	98.164%
47.0	11.932	0.957	2003.35	.042%	98.210%
48.0	10.821	0.882	2004.232	.039%	98.254%
49.0	10.146	0.840	2005.071	.037%	98.295%
50.0	9.640	0.810	2005.881	.036%	98.335%
51.0	9.352	0.797	2006.678	.035%	98.374%
52.0	9.218	0.797	2007.475	.035%	98.413%
53.0	9.113	0.798	2008.273	.035%	98.452%
54.0	9.014	0.800	2009.073	.035%	98.491%
55.0	8.937	0.803	2009.875	.035%	98.530%
56.0	8.859	0.805	2010.681	.035%	98.570%
57.0	8.789	0.808	2011.489	.036%	98.609%
58.0	8.733	0.812	2012.301	.036%	98.649%
59.0	8.677	0.816	2013.117	.036%	98.689%
60.0	8.613	0.818	2013.935	.036%	98.729%
61.0	8.578	0.823	2014.757	.036%	98.770%
62.0	8.543	0.827	2015.585	.036%	98.810%
63.0	8.515	0.832	2016.417	.037%	98.851%
64.0	8.480	0.836	2017.252	.037%	98.892%
65.0	8.466	0.841	2018.094	.037%	98.933%
66.0	8.438	0.845	2018.939	.037%	98.975%
67.0	8.430	0.851	2019.79	.037%	99.016%
68.0	8.402	0.854	2020.644	.038%	99.058%
69.0	8.388	0.859	2021.503	.038%	99.100%
70.0	8.381	0.864	2022.367	.038%	99.143%
71.0	8.360	0.867	2023.234	.038%	99.185%
72.0	8.353	0.871	2024.105	.038%	99.228%
73.0	8.346	0.875	2024.98	.038%	99.271%
74.0	8.325	0.878	2025.858	.039%	99.314%
75.0	8.325	0.882	2026.739	.039%	99.357%

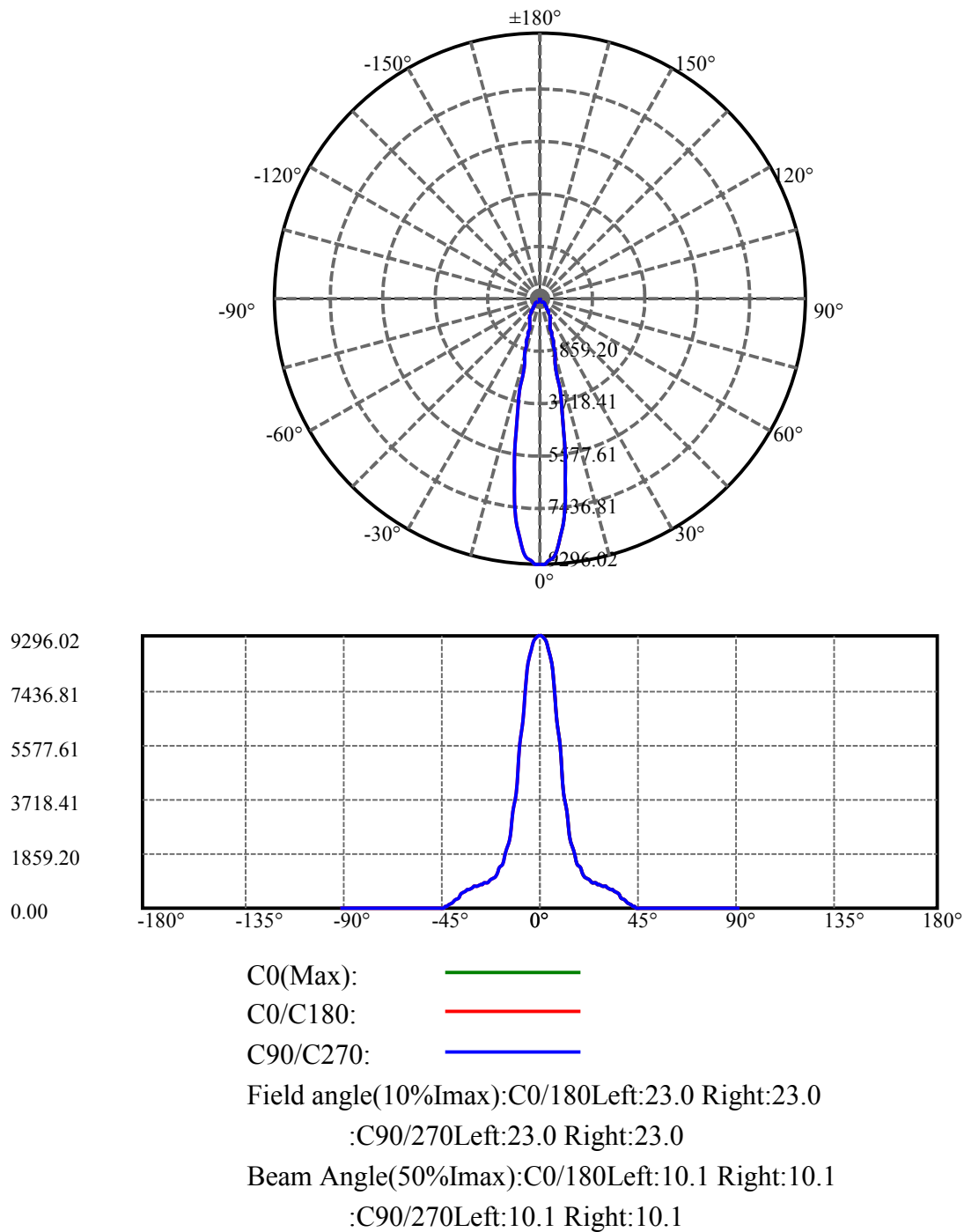
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.325	0.886	2027.625	.039%	99.401%
77.0	8.318	0.889	2028.514	.039%	99.444%
78.0	8.374	0.898	2029.412	.039%	99.488%
79.0	8.438	0.908	2030.321	.040%	99.533%
80.0	8.501	0.918	2031.239	.040%	99.578%
81.0	8.466	0.917	2032.156	.040%	99.623%
82.0	8.367	0.909	2033.064	.040%	99.667%
83.0	8.332	0.907	2033.971	.040%	99.712%
84.0	8.318	0.907	2034.878	.040%	99.756%
85.0	8.318	0.909	2035.787	.040%	99.801%
86.0	8.283	0.906	2036.693	.040%	99.845%
87.0	8.262	0.905	2037.598	.040%	99.889%
88.0	8.248	0.904	2038.502	.040%	99.934%
89.0	8.220	0.901	2039.403	.040%	99.978%
90.0	8.227	0.451	2039.854	.020%	100.000%

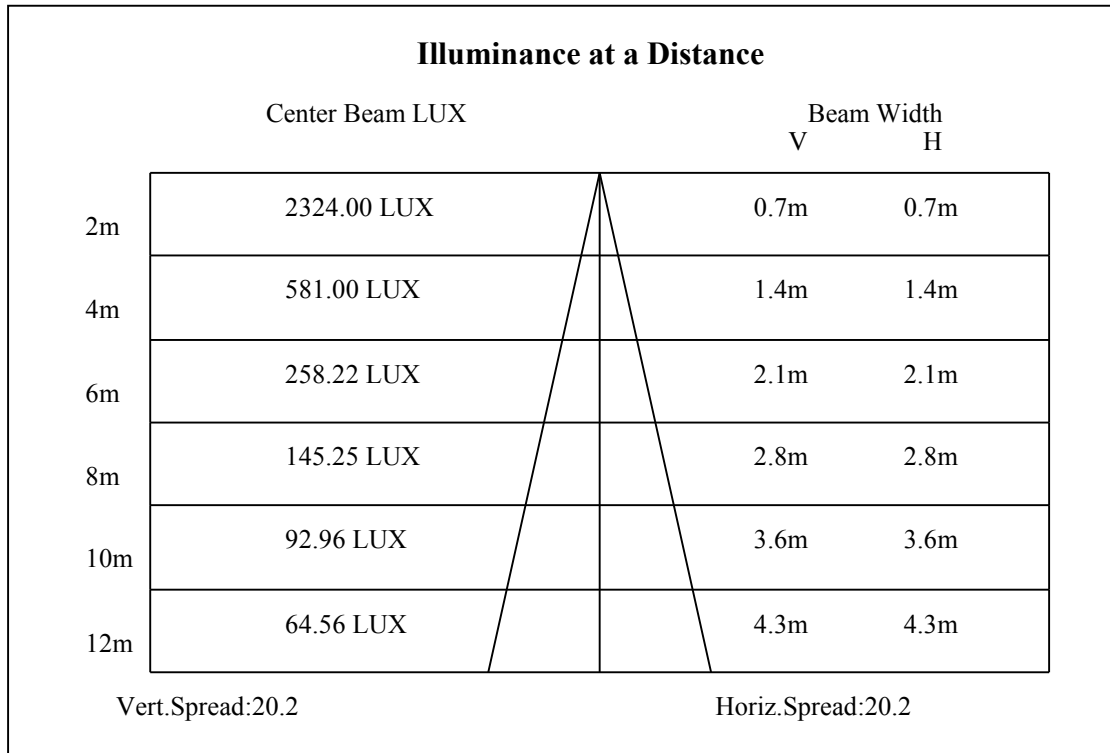
ZONAL LUMEN SUMMARY

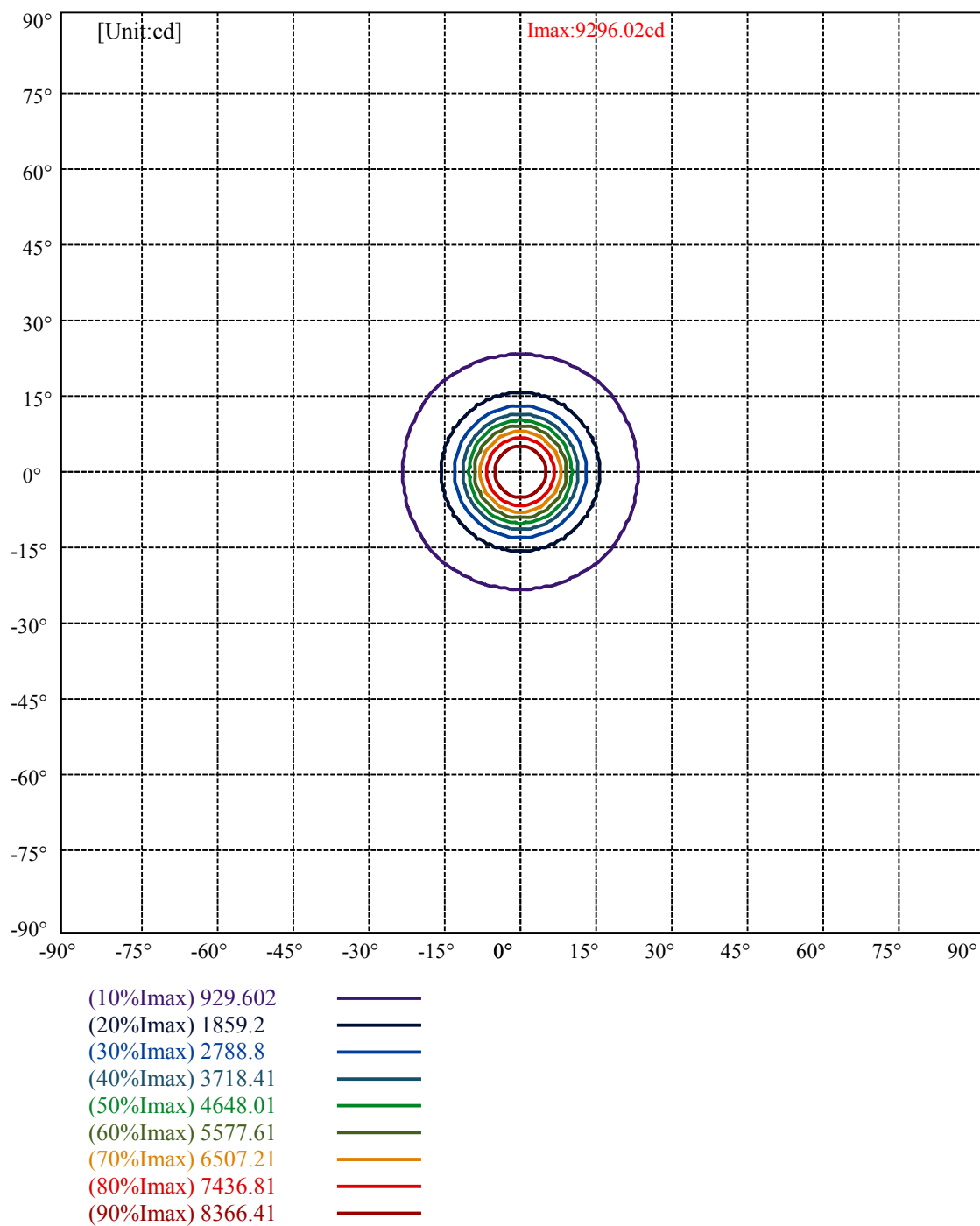
Zone	Lumens	%Lamp	%Fixt
0-30	1694.90	74.47%	83.09%
0-40	1979.35	86.97%	97.03%
0-60	2013.93	88.49%	98.73%
0-90	2039.40	89.60%	99.98%
0-120	2039.40	89.60%	99.98%
0-180	2039.85	89.62%	100.00%
60-90	26.29	1.15%	1.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.41	1631.88	71.70%	80.00%

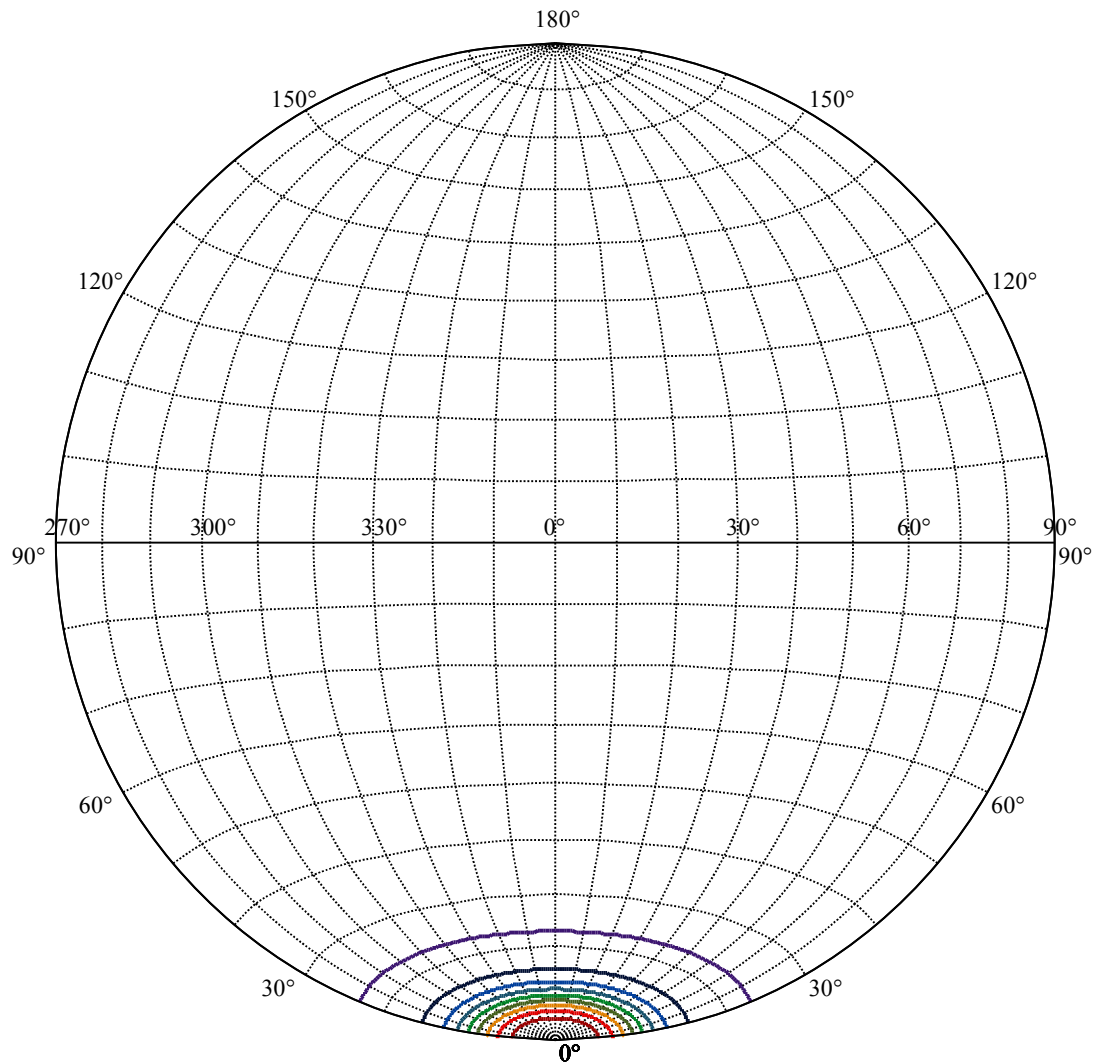
ZONAL LUMEN SUMMARY

0-10	723.36
10-20	574.65
20-30	396.89
30-40	284.45
40-50	26.53
50-60	8.05
60-70	8.43
70-80	8.87
80-90	8.16
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









House

[Unit:cd]

Road

Imax:9296.02

(10%Imax) 929.602

(20%Imax) 1859.2

(30%Imax) 2788.8

(40%Imax) 3718.41

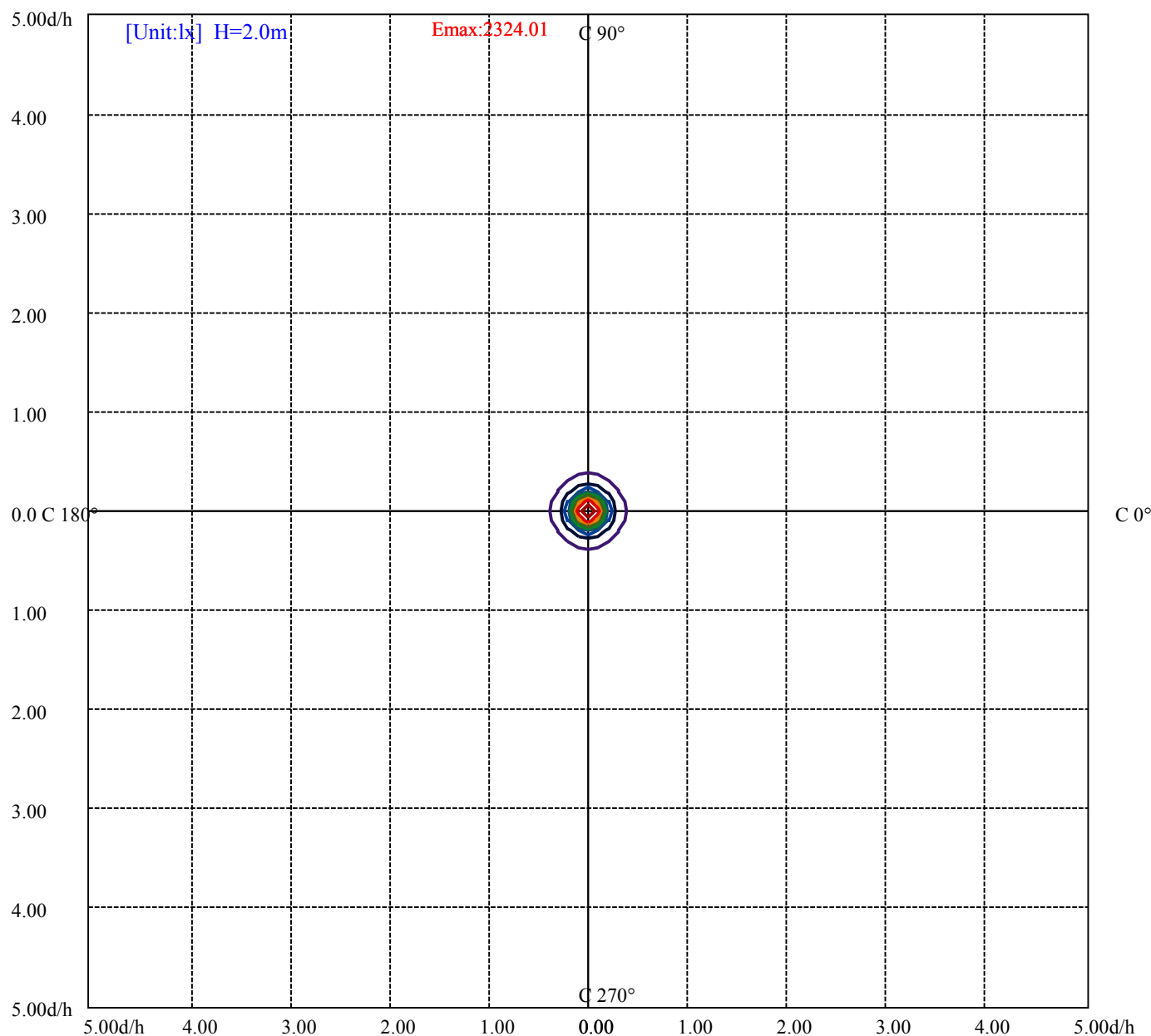
(50%Imax) 4648.01

(60%Imax) 5577.61

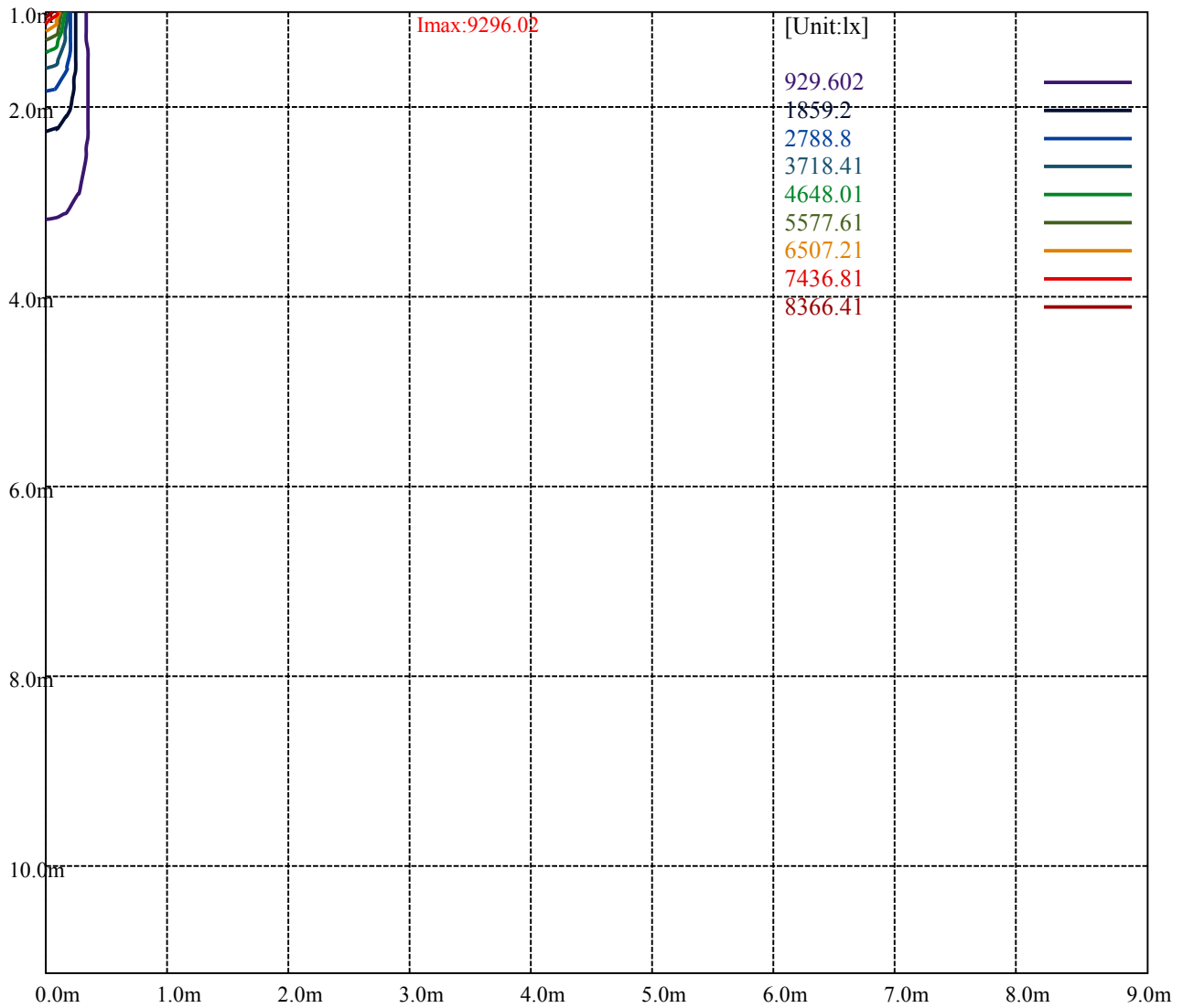
(70%Imax) 6507.21

(80%Imax) 7436.81

(90%Imax) 8366.41



(10%Emax) 232.4003	—
(20%Emax) 464.8	—
(30%Emax) 697.2	—
(40%Emax) 929.6025	—
(50%Emax) 1162.002	—
(60%Emax) 1394.402	—
(70%Emax) 1626.802	—
(80%Emax) 1859.203	—
(90%Emax) 2091.603	—



Luminance Table

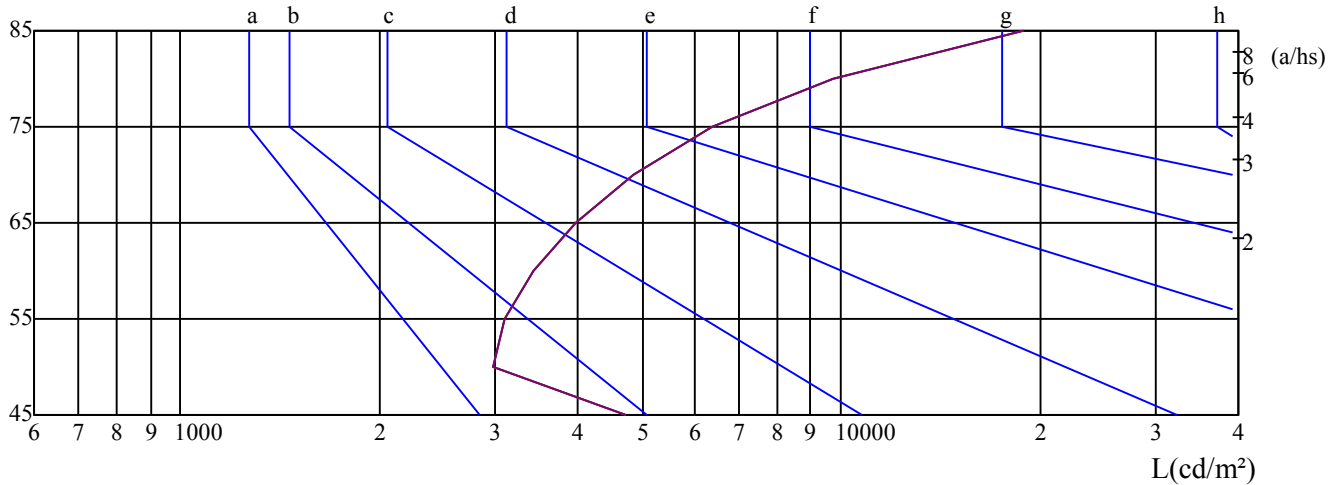
γ	45	50	55	60	65	70	75	80	85
C0	4710	2975	3091	3417	3974	4861	6381	9711	18932
C45	4710	2975	3091	3417	3974	4861	6381	9711	18932
C90	4710	2975	3091	3417	3974	4861	6381	9711	18932

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3974	3974	3974	6381	6381	6381	18932	18932	18932

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

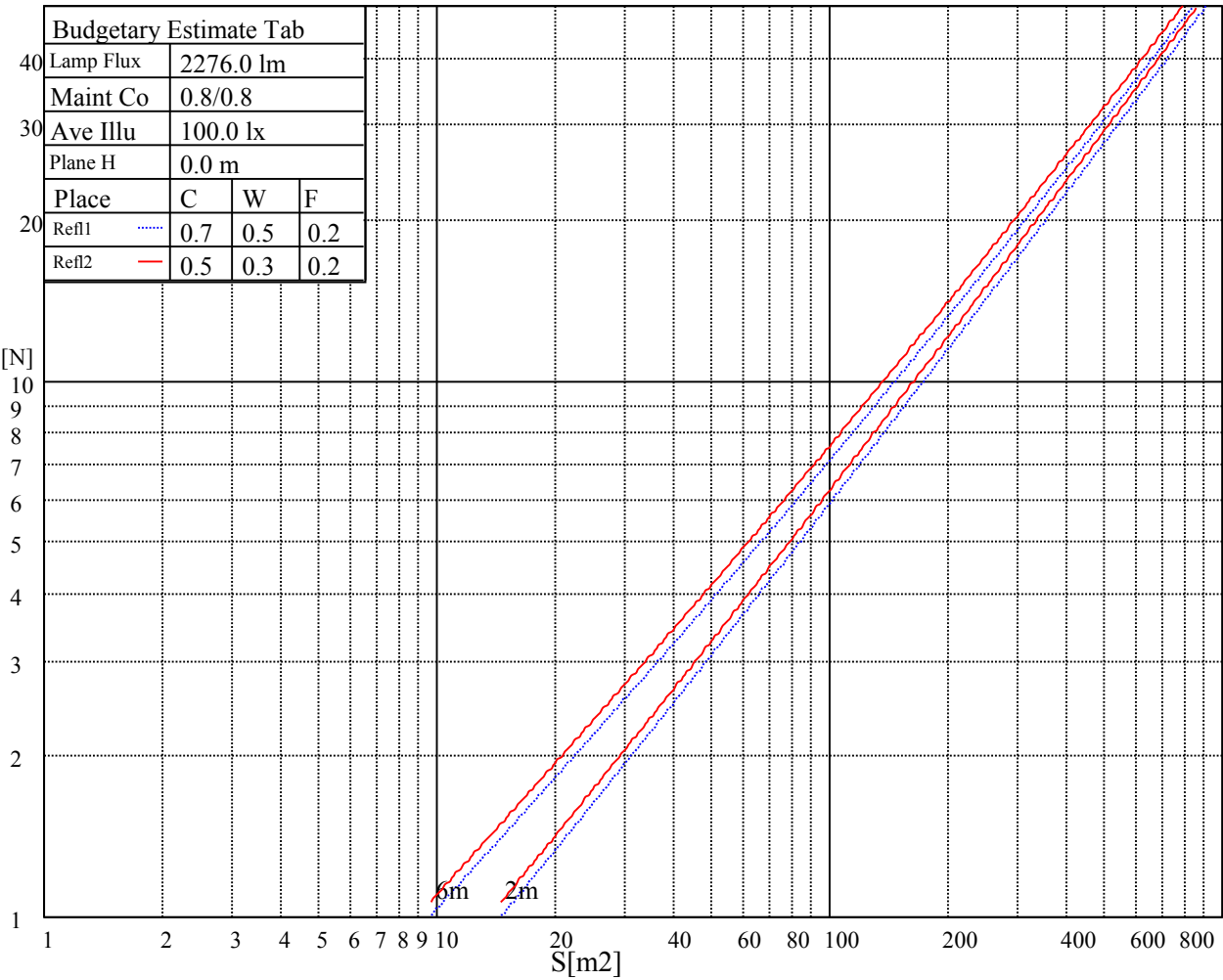
 $\gamma(^{\circ})$ 

C0 ———

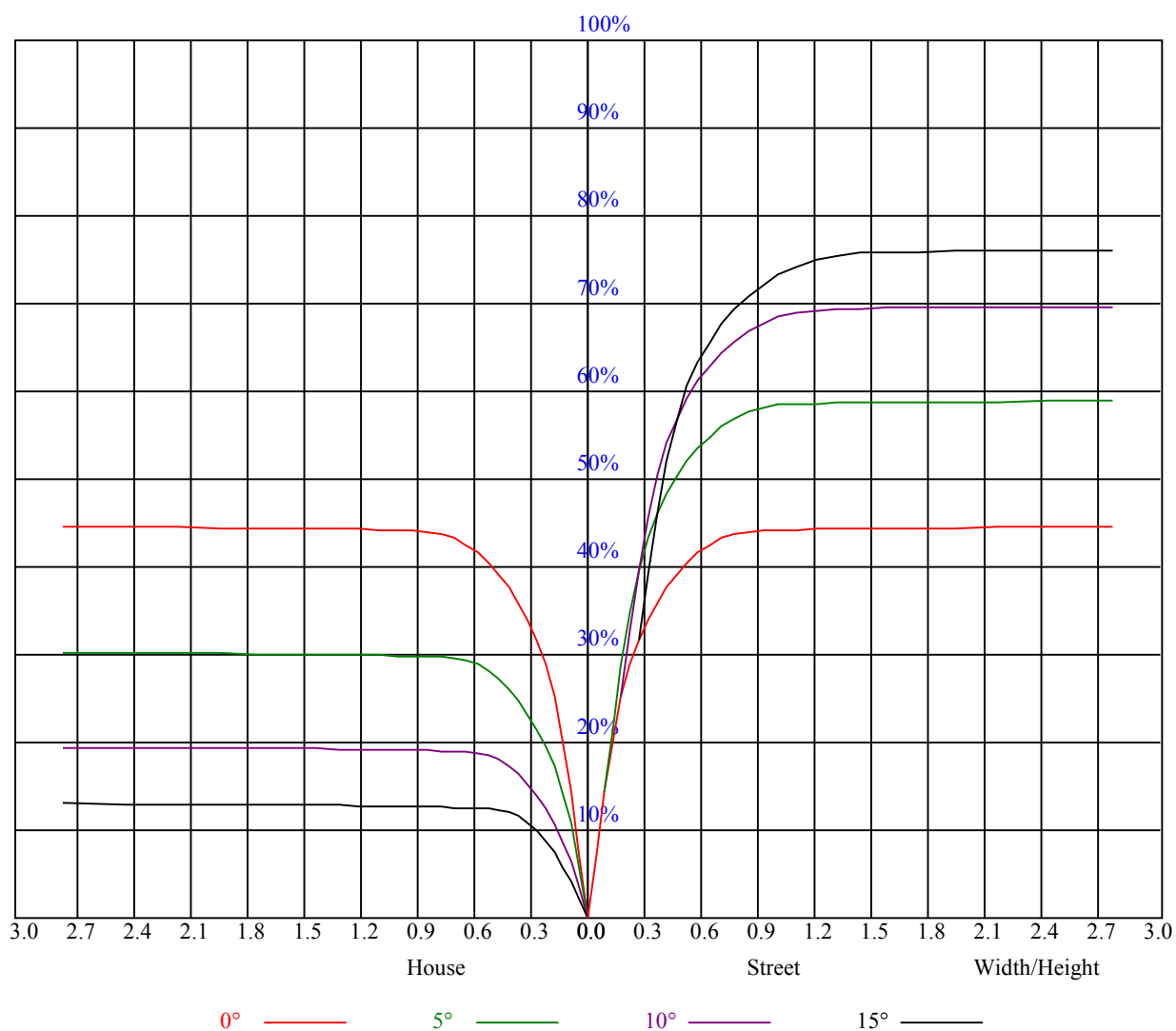
C45 ———

C90 ———

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	2.09	3.00	2.45	3.31	3.63	2.03	2.95	2.40	3.26	3.57
	3H	5.39	6.20	5.78	6.53	6.90	5.35	6.16	5.74	6.49	6.86
	4H	7.20	7.95	7.61	8.30	8.69	7.17	7.91	7.58	8.27	8.66
	6H	9.23	9.92	9.65	10.29	10.69	9.27	9.95	9.69	10.33	10.73
	8H	10.35	10.99	10.79	11.38	11.79	10.42	11.05	10.85	11.45	11.86
	12H	12.15	12.76	12.58	13.14	13.57	12.21	12.82	12.65	13.20	13.64
4H	2H	3.02	3.76	3.43	4.12	4.51	2.98	3.73	3.39	4.08	4.47
	3H	6.56	7.17	6.98	7.58	7.99	6.54	7.15	6.95	7.56	7.96
	4H	8.54	9.08	8.98	9.51	9.96	8.52	9.06	8.96	9.49	9.94
	6H	10.73	11.19	11.20	11.64	12.12	10.76	11.22	11.23	11.68	12.15
	8H	11.94	12.38	12.42	12.83	13.31	12.00	12.43	12.48	12.88	13.36
	12H	13.63	14.00	14.12	14.49	14.97	13.68	14.05	14.17	14.54	15.02
8H	4H	9.30	9.73	9.77	10.18	10.66	9.28	9.72	9.76	10.17	10.64
	6H	11.77	12.11	12.28	12.61	13.10	11.80	12.14	12.31	12.64	13.13
	8H	13.17	13.47	13.71	14.00	14.49	13.21	13.52	13.75	14.04	14.54
	12H	14.98	15.24	15.50	15.74	16.32	15.01	15.27	15.54	15.77	16.35
12H	4H	9.52	9.89	10.02	10.38	10.86	9.51	9.88	10.00	10.37	10.85
	6H	12.30	12.41	12.64	12.88	13.43	12.32	12.43	12.66	12.90	13.45
	8H	13.64	13.89	14.16	14.39	14.98	13.67	13.93	14.20	14.43	15.01
Variation with the observer position at spacings:											
S = 1.0H		5.2/-8.2					5.2/-8.2				
S = 1.5H		7.5/-6.1					7.5/-6.1				
S = 2.0H		8.9/-4.5					8.9/-4.5				
Standard tables:		BK2					BK2				
Uncorrected UGR		1.1					1.1				



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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.92	0.92	0.92	0.90
1	1.00	0.98	0.97	0.98	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.88	0.88	0.87	0.85
2	0.95	0.92	0.89	0.93	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.85	0.86	0.84	0.83	0.81
3	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.72
6	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
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	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60



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Intensity data(cd)									Appendix Page: 17 Total:19
C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	9290.81	9244.69	9117.56	8927.44	8618.63	8046.56	7453.13	6759.00	5996.81
45.0	9312.19	9291.94	9221.63	9087.75	8881.88	8559.56	7965.56	7335.00	6609.38
90.0	9301.50	9281.81	9219.94	9087.19	8887.50	8518.50	8043.75	7355.25	6542.44
135.0	9279.56	9300.94	9276.75	9209.25	9088.88	8807.63	8447.06	7940.25	7225.31
180.0	9290.81	9296.44	9266.06	9173.25	9018.56	8709.19	8209.69	7611.75	6813.00
225.0	9312.19	9296.44	9230.06	9084.38	8844.19	8403.75	7869.38	7121.81	6269.63
270.0	9301.50	9283.50	9199.13	9043.88	8778.94	8322.75	7699.50	7029.00	6373.13
315.0	9279.56	9216.00	9059.63	8781.19	8400.38	7810.88	7175.25	6347.25	5461.31
360.0	9290.81	9244.69	9117.56	8927.44	8618.63	8046.56	7453.13	6759.00	5996.81
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5021.44	4267.13	3510.56	2955.38	2471.06	2097.56	1837.69	1607.06	1447.31
45.0	5640.19	4846.50	4086.00	3343.50	2754.56	2353.50	2006.44	1740.94	1557.00
90.0	5758.31	4867.88	4039.88	3402.00	2874.38	2362.50	2048.63	1798.88	1577.25
135.0	6411.94	5632.31	4744.13	4003.88	3285.56	2716.31	2320.88	1973.25	1731.38
180.0	6033.94	5127.19	4257.00	3570.75	3000.38	2449.13	2111.06	1840.50	1599.75
225.0	5470.31	4479.75	3747.94	3130.31	2639.25	2175.19	1886.63	1656.00	1456.88
270.0	5293.69	4522.50	3895.88	3131.44	2597.63	2266.31	1893.94	1636.31	1480.50
315.0	4684.50	3878.44	3187.13	2694.94	2306.81	1937.81	1707.19	1522.13	1358.44
360.0	5021.44	4267.13	3510.56	2955.38	2471.06	2097.56	1837.69	1607.06	1447.31
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1304.44	1200.38	1094.63	1024.31	964.69	914.63	863.44	830.25	798.75
45.0	1389.94	1270.13	1157.06	1073.81	1002.94	947.81	891.00	853.31	820.69
90.0	1402.88	1280.81	1122.19	1074.43	1007.94	945.34	898.99	856.58	821.19
135.0	1517.63	1364.06	1228.50	1130.63	1049.63	994.50	923.63	880.31	848.81
180.0	1412.44	1280.81	1115.72	1066.33	999.62	932.57	893.53	852.30	815.12
225.0	1304.44	1114.93	1095.13	1018.24	961.93	909.34	870.69	836.27	805.61
270.0	1307.81	1200.38	1113.19	1026.56	970.31	921.94	871.88	839.81	810.56
315.0	1231.88	1116.90	1052.21	981.34	929.76	881.38	847.01	813.99	783.96
360.0	1304.44	1200.38	1094.63	1024.31	964.69	914.63	863.44	830.25	798.75
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	772.31	752.63	735.75	716.06	686.25	646.88	593.44	532.69	474.75
45.0	787.50	764.44	744.19	723.38	698.63	666.00	617.06	563.06	511.31
90.0	794.87	771.75	746.27	727.59	707.85	670.22	627.81	579.60	519.24
135.0	807.75	783.00	764.44	740.81	721.69	704.81	664.88	622.69	572.06
180.0	793.13	768.60	745.09	730.01	712.46	671.91	634.73	584.38	530.33
225.0	783.06	762.92	741.15	723.60	696.83	645.47	597.09	542.31	475.65
270.0	780.19	760.50	743.06	724.50	696.38	658.13	605.81	546.19	488.25
315.0	765.39	746.72	725.79	704.48	670.67	615.43	563.29	506.25	438.36
360.0	772.31	752.63	735.75	716.06	686.25	646.88	593.44	532.69	474.75
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	406.69	345.94	291.38	206.89	152.94	104.18	53.72	26.72	17.72
45.0	447.19	388.69	322.88	287.44	194.96	141.92	82.74	45.96	24.02
90.0	456.36	398.81	327.09	269.55	212.29	143.21	100.80	55.80	25.09
135.0	504.00	446.63	388.69	317.81	286.88	196.88	131.01	84.49	47.42
180.0	457.71	398.31	338.68	266.46	210.04	156.26	101.76	57.15	29.19
225.0	407.53	348.41	281.25	215.44	162.84	109.18	68.23	33.58	18.39
270.0	420.75	360.56	291.94	247.84	167.85	118.35	66.32	35.16	19.58
315.0	369.17	308.81	242.66	179.27	129.60	79.37	44.21	21.60	16.03
360.0	406.69	345.94	291.38	206.89	152.94	104.18	53.72	26.72	17.72

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Intensity data(cd)										Appendix Page: 18 Total:19	
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	14.63	12.15	10.52	9.96	9.51	9.34	9.23	9.11	9.00		
45.0	16.88	14.68	12.43	11.36	10.18	9.62	9.45	9.34	9.17		
90.0	18.34	15.98	12.88	11.76	11.31	9.90	9.62	9.51	9.39		
135.0	22.61	15.75	13.67	11.42	10.41	10.13	9.68	9.51	9.34		
180.0	17.49	15.08	12.99	11.42	11.03	10.41	9.51	9.28	9.23		
225.0	15.13	13.28	11.19	10.29	9.62	9.28	9.17	9.06	8.94		
270.0	15.19	13.05	10.91	9.90	9.45	9.28	9.11	9.00	8.94		
315.0	14.06	11.98	10.86	10.46	9.68	9.17	9.06	8.94	8.89		
360.0	14.63	12.15	10.52	9.96	9.51	9.34	9.23	9.11	9.00		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	8.89	8.83	8.78	8.72	8.66	8.61	8.55	8.49	8.44		
45.0	9.11	9.06	9.00	8.89	8.78	8.78	8.66	8.61	8.61		
90.0	9.23	9.17	9.06	8.94	8.89	8.83	8.72	8.66	8.66		
135.0	9.28	9.17	9.06	8.90	8.89	8.83	8.78	8.78	8.66		
180.0	9.11	9.00	8.89	8.83	8.78	8.66	8.61	8.55	8.55		
225.0	8.89	8.78	8.72	8.66	8.61	8.55	8.55	8.55	8.49		
270.0	8.83	8.78	8.72	8.66	8.66	8.61	8.55	8.55	8.49		
315.0	8.78	8.72	8.66	8.61	8.61	8.55	8.49	8.44	8.44		
360.0	8.89	8.83	8.78	8.72	8.66	8.61	8.55	8.49	8.44		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	8.44	8.44	8.44	8.38	8.38	8.38	8.33	8.33	8.33		
45.0	8.55	8.55	8.49	8.49	8.49	8.44	8.44	8.44	8.38		
90.0	8.61	8.55	8.55	8.49	8.49	8.44	8.44	8.44	8.38		
135.0	8.61	8.61	8.55	8.49	8.49	8.44	8.44	8.38	8.38		
180.0	8.49	8.44	8.44	8.44	8.38	8.38	8.38	8.38	8.33		
225.0	8.49	8.44	8.44	8.38	8.44	8.38	8.38	8.38	8.38		
270.0	8.49	8.44	8.44	8.44	8.38	8.38	8.38	8.38	8.38		
315.0	8.44	8.38	8.38	8.38	8.38	8.38	8.33	8.33	8.33		
360.0	8.44	8.44	8.44	8.38	8.38	8.38	8.33	8.33	8.33		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	8.33	8.33	8.33	8.27	8.33	8.33	8.38	8.61	8.72		
45.0	8.38	8.38	8.33	8.38	8.38	8.33	8.33	8.33	8.33		
90.0	8.38	8.38	8.33	8.33	8.33	8.33	8.33	8.33	8.33		
135.0	8.33	8.38	8.33	8.33	8.33	8.33	8.33	8.33	8.33		
180.0	8.33	8.33	8.33	8.27	8.27	8.27	8.27	8.33	8.44		
225.0	8.38	8.33	8.33	8.33	8.33	8.33	8.33	8.38	8.61		
270.0	8.38	8.33	8.33	8.38	8.33	8.33	8.27	8.33	8.33		
315.0	8.33	8.33	8.33	8.33	8.33	8.33	8.78	8.89	8.94		
360.0	8.33	8.33	8.33	8.27	8.33	8.33	8.38	8.61	8.72		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	8.61	8.44	8.38	8.44	8.44	8.33	8.21	8.21	8.21		
45.0	8.33	8.33	8.33	8.33	8.33	8.33	8.27	8.27	8.21		
90.0	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.21		
135.0	8.38	8.33	8.33	8.27	8.27	8.27	8.33	8.21	8.21		
180.0	8.33	8.27	8.27	8.21	8.21	8.27	8.27	8.27	8.21		
225.0	8.55	8.38	8.33	8.33	8.33	8.33	8.27	8.27	8.27		
270.0	8.38	8.33	8.33	8.27	8.27	8.27	8.27	8.27	8.21		
315.0	8.89	8.61	8.44	8.44	8.44	8.21	8.21	8.21	8.21		
360.0	8.61	8.44	8.38	8.44	8.44	8.33	8.21	8.21	8.21		

Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	8.21
45.0	8.27
90.0	8.21
135.0	8.21
180.0	8.21
225.0	8.27
270.0	8.21
315.0	8.21
360.0	8.21