

## Luminaire Property

Luminaire: RH-SPL15 15W 4000K

Report NO.:

Voltage: 220.6 V

Test NO.:

Current: 0.126 A

Lamp:

Power: 14.5 W

Sum Lumens: 1235.51 lm

Power Factor: 0.522

Number of Lamps: 1

Ballast Type: EMC300mA

Diameter: mm

Width: 200mm

Length: 200mm

Height: 20mm

Photometric Type: Type C

Remark: PMMA+0.5W SMD2835

## Photometric Results

Lumens: 1235.51 lm

Angle of maximum intensity: C:0.0 G:1.0

Effective luminous flux: 1217.13 lm

Half Peak Side Angle(50%): Left: -54.1 Right:53.6

Efficiency: 85.2076 lm/W

Light Out Rate(LOR) : 100.00%

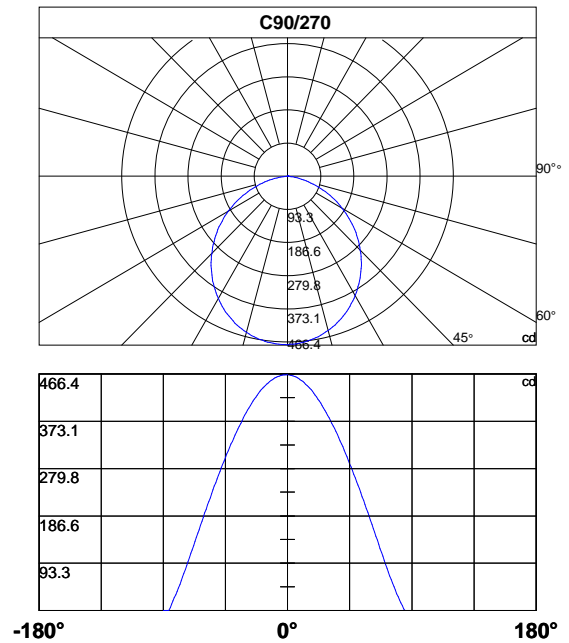
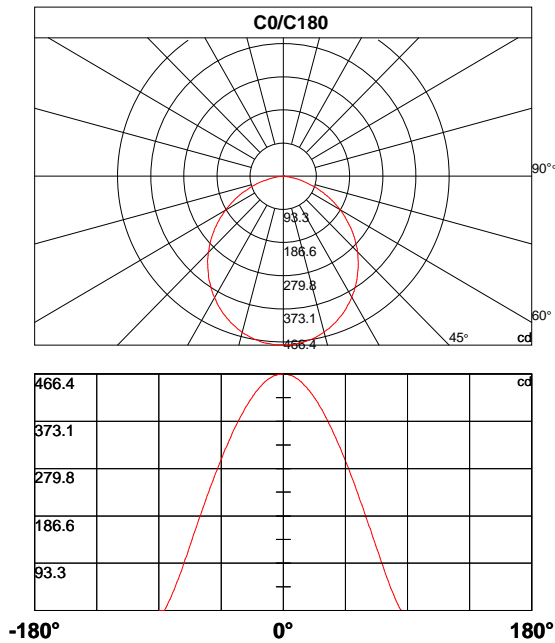
Central Intensity: 466.073cd

Up Flux Rate: 0.0%

Maximum Intensity: 466.442cd

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -78.2 Right:77.6



### Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
<b>0.0</b>	466.1	466.4	466.1	465.9	464.9	464.2	463.3	461.9	460.7	459.0
<b>45.0</b>	466.1	464.4	463.9	463.3	462.6	461.6	460.5	458.7	457.3	455.3
<b>90.0</b>	466.1	464.4	463.9	463.3	462.6	461.6	460.5	458.7	457.3	455.3
<b>135.0</b>	466.1	466.3	466.2	466.2	465.2	464.3	463.5	462.7	460.9	459.3
<b>180.0</b>	466.1	466.3	466.2	466.2	465.2	464.3	463.5	462.7	460.9	459.3
<b>225.0</b>	466.1	464.8	464.9	464.7	464.0	463.5	462.4	461.7	460.2	458.6
<b>270.0</b>	466.1	464.8	464.9	464.7	464.0	463.5	462.4	461.7	460.2	458.6
<b>315.0</b>	466.1	466.4	466.1	465.9	464.9	464.2	463.3	461.9	460.7	459.0
<b>360.0</b>	466.1	466.4	466.1	465.9	464.9	464.2	463.3	461.9	460.7	459.0

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
<b>0.0</b>	457.0	455.5	453.3	450.9	448.1	445.2	442.3	439.8	436.5	433.1
<b>45.0</b>	453.5	451.8	449.6	446.8	443.9	441.1	438.5	435.4	432.2	428.4
<b>90.0</b>	453.5	451.8	449.6	446.8	443.9	441.1	438.5	435.4	432.2	428.4
<b>135.0</b>	457.5	455.7	453.6	451.3	448.8	446.1	443.3	440.4	436.8	433.8
<b>180.0</b>	457.5	455.7	453.6	451.3	448.8	446.1	443.3	440.4	436.8	433.8
<b>225.0</b>	457.1	455.3	453.8	451.6	449.0	446.9	443.7	441.2	438.4	435.2
<b>270.0</b>	457.1	455.3	453.8	451.6	449.0	446.9	443.7	441.2	438.4	435.2
<b>315.0</b>	457.0	455.5	453.3	450.9	448.1	445.2	442.3	439.8	436.5	433.1
<b>360.0</b>	457.0	455.5	453.3	450.9	448.1	445.2	442.3	439.8	436.5	433.1

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
<b>0.0</b>	429.4	425.5	421.6	418.2	414.0	409.8	404.6	400.1	395.9	390.8
<b>45.0</b>	424.9	421.0	416.9	413.4	409.0	404.3	399.9	394.9	390.1	385.4
<b>90.0</b>	424.9	421.0	416.9	413.4	409.0	404.3	399.9	394.9	390.1	385.4
<b>135.0</b>	430.4	426.5	423.0	418.8	415.1	410.6	406.1	401.5	396.8	391.5
<b>180.0</b>	430.4	426.5	423.0	418.8	415.1	410.6	406.1	401.5	396.8	391.5
<b>225.0</b>	432.1	428.2	424.2	420.6	417.0	413.0	408.5	404.1	399.1	395.1
<b>270.0</b>	432.1	428.2	424.2	420.6	417.0	413.0	408.5	404.1	399.1	395.1
<b>315.0</b>	429.4	425.5	421.6	418.2	414.0	409.8	404.6	400.1	395.9	390.8
<b>360.0</b>	429.4	425.5	421.6	418.2	414.0	409.8	404.6	400.1	395.9	390.8

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
<b>0.0</b>	385.8	380.6	375.1	369.3	364.5	358.5	352.5	346.5	340.2	334.0
<b>45.0</b>	380.3	375.1	369.6	363.6	358.9	353.2	347.2	341.1	334.9	328.4
<b>90.0</b>	380.3	375.1	369.6	363.6	358.9	353.2	347.2	341.1	334.9	328.4
<b>135.0</b>	386.5	382.1	376.6	371.2	365.7	360.0	354.8	349.0	342.4	336.2
<b>180.0</b>	386.5	382.1	376.6	371.2	365.7	360.0	354.8	349.0	342.4	336.2
<b>225.0</b>	390.1	384.8	379.8	374.1	368.7	362.9	358.1	352.2	345.9	339.6
<b>270.0</b>	390.1	384.8	379.8	374.1	368.7	362.9	358.1	352.2	345.9	339.6
<b>315.0</b>	385.8	380.6	375.1	369.3	364.5	358.5	352.5	346.5	340.2	334.0
<b>360.0</b>	385.8	380.6	375.1	369.3	364.5	358.5	352.5	346.5	340.2	334.0

### Photometric Data Table [cd]

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	328.6	321.9	315.3	308.6	301.9	295.7	288.9	281.7	274.4	267.3
45.0	323.0	316.1	309.8	303.0	295.9	289.2	283.0	275.9	268.6	261.4
90.0	323.0	316.1	309.8	303.0	295.9	289.2	283.0	275.9	268.6	261.4
135.0	329.8	323.3	317.9	311.1	304.4	297.6	290.5	283.7	277.3	270.4
180.0	329.8	323.3	317.9	311.1	304.4	297.6	290.5	283.7	277.3	270.4
225.0	333.6	328.1	321.5	314.8	308.5	301.4	294.5	287.7	281.3	274.0
270.0	333.6	328.1	321.5	314.8	308.5	301.4	294.5	287.7	281.3	274.0
315.0	328.6	321.9	315.3	308.6	301.9	295.7	288.9	281.7	274.4	267.3
360.0	328.6	321.9	315.3	308.6	301.9	295.7	288.9	281.7	274.4	267.3

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	259.5	253.3	246.0	238.2	230.2	222.4	214.6	207.7	199.9	192.0
45.0	254.0	247.3	239.8	232.5	224.3	216.9	208.7	201.1	194.1	186.1
90.0	254.0	247.3	239.8	232.5	224.3	216.9	208.7	201.1	194.1	186.1
135.0	263.1	255.5	247.9	241.8	233.8	226.4	218.3	211.0	202.6	194.9
180.0	263.1	255.5	247.9	241.8	233.8	226.4	218.3	211.0	202.6	194.9
225.0	266.8	259.4	251.8	245.7	238.1	230.5	222.3	214.8	207.9	199.7
270.0	266.8	259.4	251.8	245.7	238.1	230.5	222.3	214.8	207.9	199.7
315.0	259.5	253.3	246.0	238.2	230.2	222.4	214.6	207.7	199.9	192.0
360.0	259.5	253.3	246.0	238.2	230.2	222.4	214.6	207.7	199.9	192.0

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	184.0	175.8	167.5	160.7	152.3	144.2	135.5	127.6	120.4	112.3
45.0	178.3	169.9	161.8	154.9	146.8	138.7	130.6	122.0	114.0	107.2
90.0	178.3	169.9	161.8	154.9	146.8	138.7	130.6	122.0	114.0	107.2
135.0	187.8	180.0	172.0	163.8	155.5	148.8	140.4	132.3	123.8	115.7
180.0	187.8	180.0	172.0	163.8	155.5	148.8	140.4	132.3	123.8	115.7
225.0	192.2	183.7	176.0	167.8	159.3	152.4	144.1	136.1	128.1	119.4
270.0	192.2	183.7	176.0	167.8	159.3	152.4	144.1	136.1	128.1	119.4
315.0	184.0	175.8	167.5	160.7	152.3	144.2	135.5	127.6	120.4	112.3
360.0	184.0	175.8	167.5	160.7	152.3	144.2	135.5	127.6	120.4	112.3

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	104.1	96.0	88.0	79.8	72.2	65.6	57.8	50.8	43.6	36.8
45.0	99.1	91.3	83.4	75.5	68.1	61.4	54.0	46.7	40.1	33.0
90.0	99.1	91.3	83.4	75.5	68.1	61.4	54.0	46.7	40.1	33.0
135.0	107.6	100.9	92.7	84.7	77.2	69.5	61.7	55.5	47.8	40.8
180.0	107.6	100.9	92.7	84.7	77.2	69.5	61.7	55.5	47.8	40.8
225.0	112.8	104.5	96.3	88.4	80.6	73.0	66.4	58.5	51.3	44.3
270.0	112.8	104.5	96.3	88.4	80.6	73.0	66.4	58.5	51.3	44.3
315.0	104.1	96.0	88.0	79.8	72.2	65.6	57.8	50.8	43.6	36.8
360.0	104.1	96.0	88.0	79.8	72.2	65.6	57.8	50.8	43.6	36.8

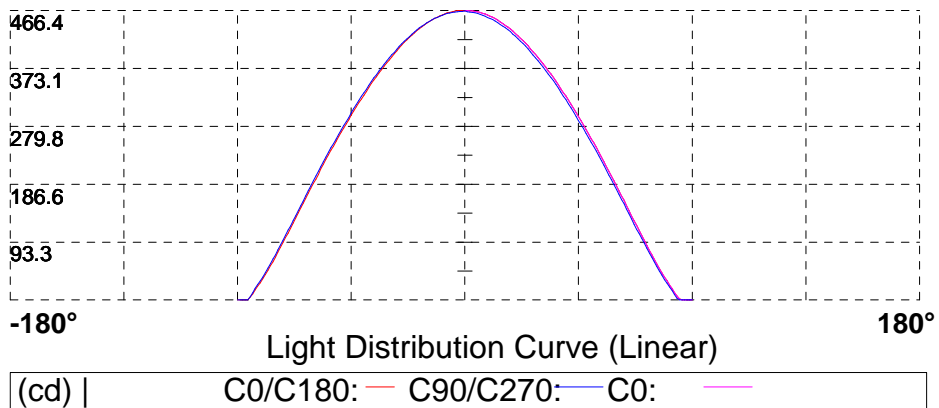
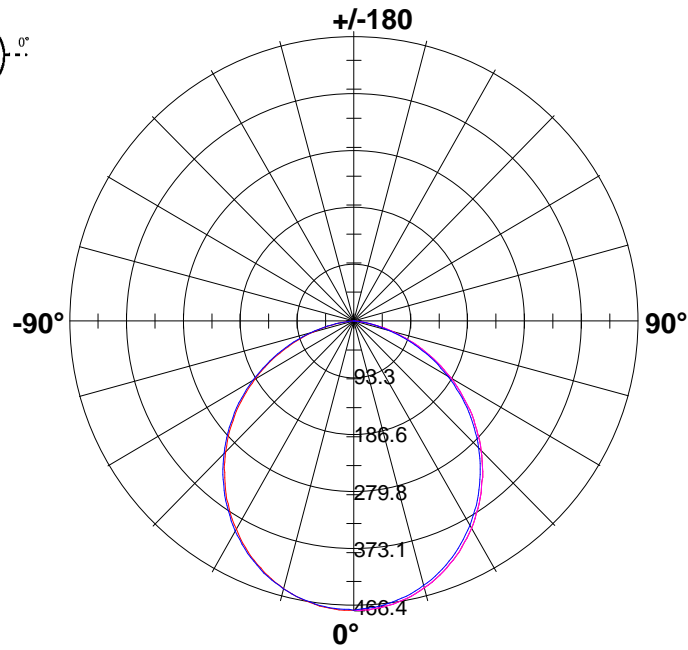
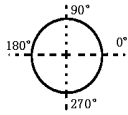
### Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	31.0	24.1	18.0	12.1	6.4	1.9	0.0	0.0	0.0	0.0
45.0	27.4	20.9	15.1	9.3	3.1	0.0	0.0	0.0	0.0	0.0
90.0	27.4	20.9	15.1	9.3	3.1	0.0	0.0	0.0	0.0	0.0
135.0	34.3	27.7	22.3	16.2	9.9	4.8	0.0	0.0	0.0	0.0
180.0	34.3	27.7	22.3	16.2	9.9	4.8	0.0	0.0	0.0	0.0
225.0	37.1	30.6	25.1	18.8	12.3	5.4	0.0	0.0	0.0	0.0
270.0	37.1	30.6	25.1	18.8	12.3	5.4	0.0	0.0	0.0	0.0
315.0	31.0	24.1	18.0	12.1	6.4	1.9	0.0	0.0	0.0	0.0
360.0	31.0	24.1	18.0	12.1	6.4	1.9	0.0	0.0	0.0	0.0

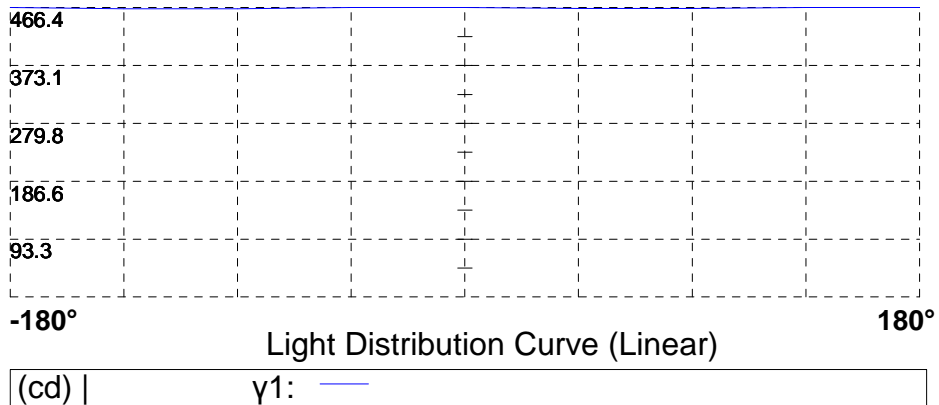
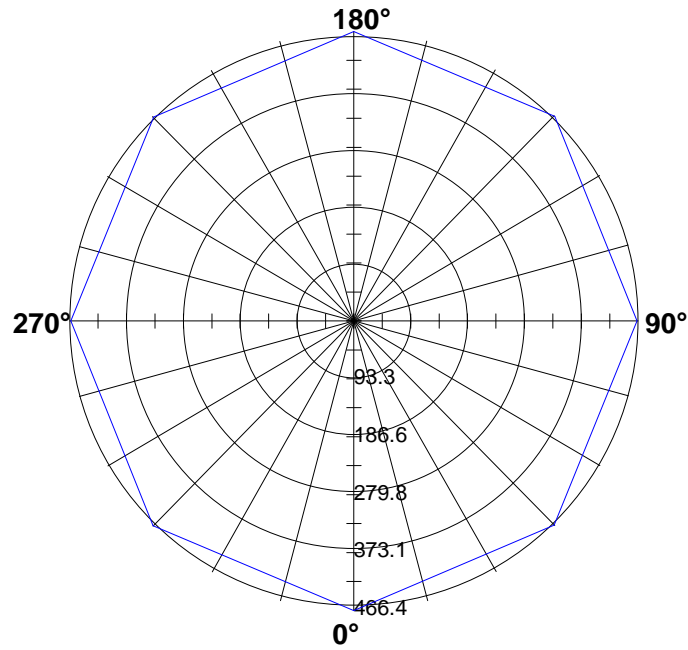
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

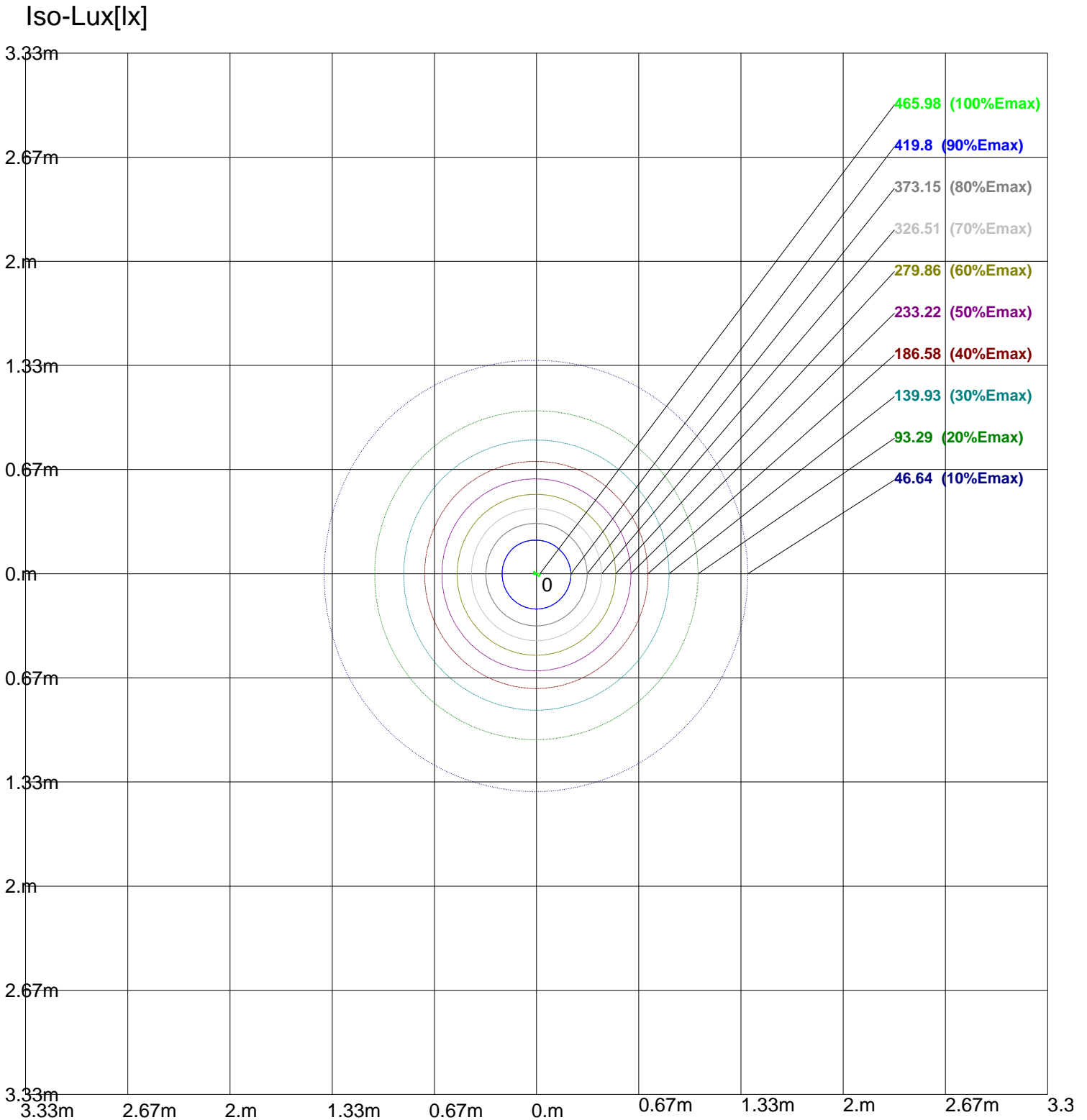
Light Distribution Curve [Unit: cd]

Luminaire



### Max Plane Light Distribution Curve [Unit: cd]





Height: 1 m  
Max Illuminance : 466.44lx

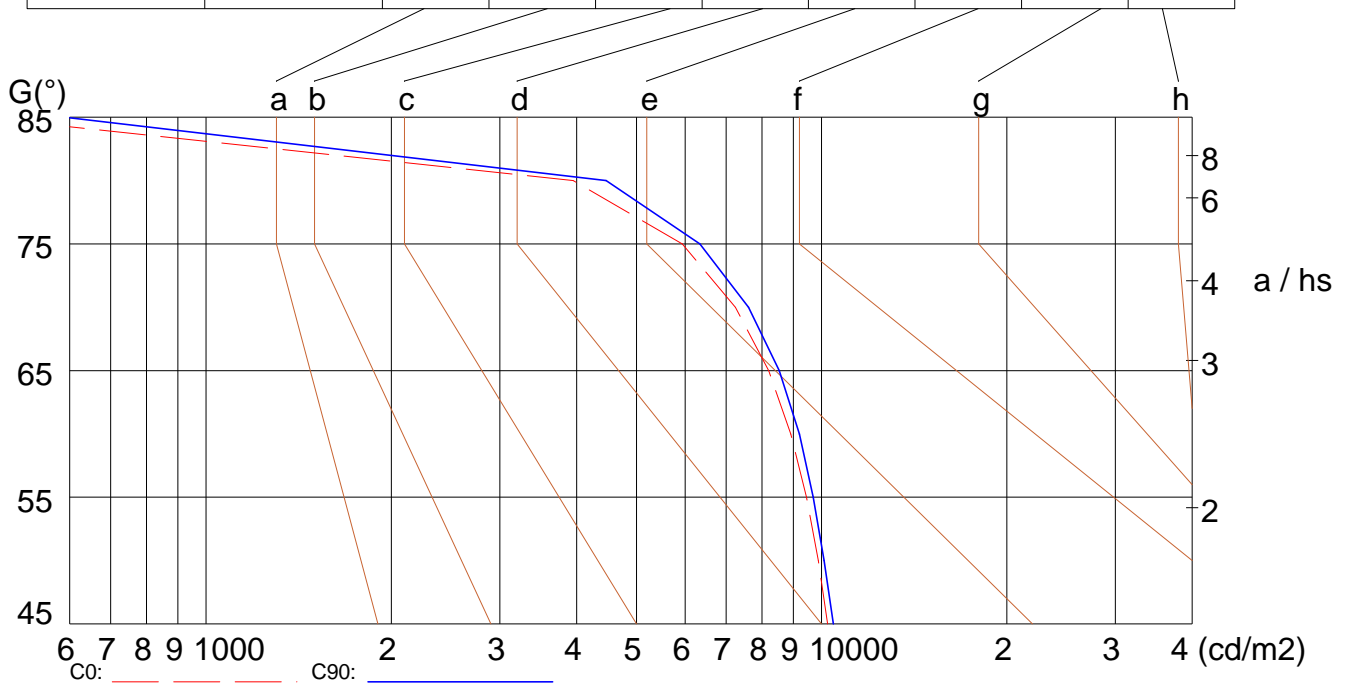
## Luminance Limiting Curve

Diameter: mm  
 Length: 200mm  
 Width: 200mm  
 Height: 20mm

(cd/m<sup>2</sup>)

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	10225	9878	9452	8913	8208	7242	5936	3945	0
C90	10454	10095	9695	9202	8531	7612	6340	4468	557

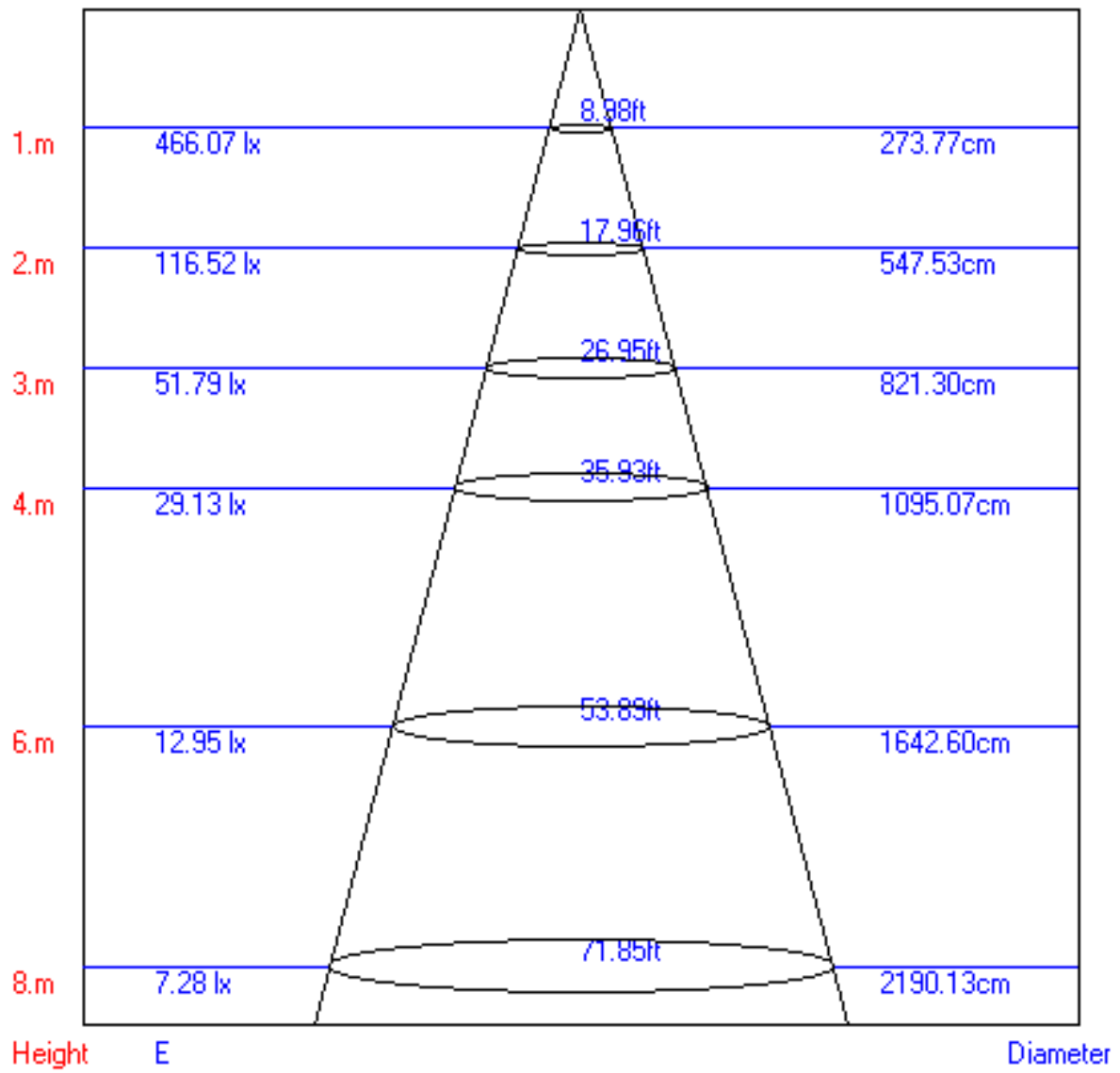
Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)



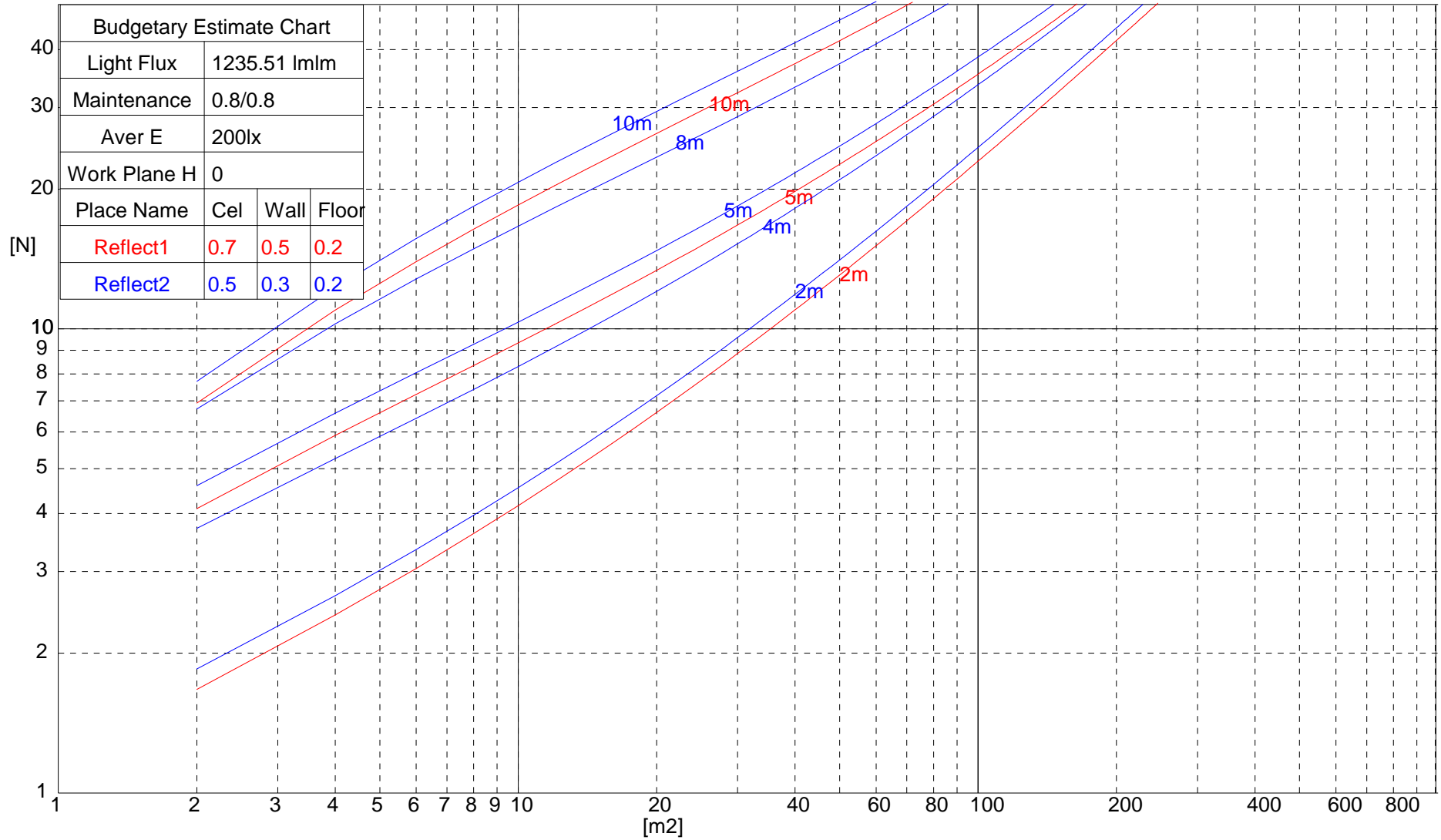
### Lux-Distance Curve



Beam Angle:107.70°

Utilization Coefficient Table

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 FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.06	1.04	1.03	1.04	1.02	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	0.90	0.88	0.86	0.90	0.87	0.84	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.78	0.75	0.73	0.77	0.74	0.71	0.76	0.72	0.68	0.74	0.69	0.65	0.71	0.65	0.61	0.57
4	0.67	0.64	0.62	0.67	0.64	0.61	0.67	0.62	0.59	0.66	0.60	0.56	0.63	0.58	0.53	0.49
5	0.59	0.56	0.54	0.59	0.56	0.53	0.59	0.55	0.51	0.59	0.53	0.49	0.57	0.51	0.46	0.42
6	0.52	0.49	0.47	0.53	0.49	0.47	0.53	0.48	0.45	0.53	0.47	0.43	0.52	0.46	0.41	0.37
7	0.46	0.44	0.42	0.47	0.44	0.41	0.48	0.43	0.40	0.48	0.42	0.38	0.48	0.41	0.36	0.33
8	0.42	0.39	0.38	0.42	0.39	0.37	0.44	0.39	0.35	0.44	0.38	0.34	0.44	0.37	0.32	0.29
9	0.38	0.35	0.34	0.39	0.35	0.33	0.40	0.35	0.32	0.41	0.35	0.31	0.41	0.34	0.29	0.26
10	0.34	0.32	0.31	0.35	0.32	0.30	0.37	0.32	0.29	0.37	0.32	0.28	0.38	0.31	0.27	0.24



## UGR Glare Index

Ceiling	70	70	50	50	30	70	70	50	50	30	
Wall	50	30	50	30	30	50	30	50	30	30	
Floor	20	20	20	20	20	20	20	20	20	20	
Room Size X      Y	Weft to light axis direction of observation					Direction of light axis parallel observation					
2H	2H	14.7	16.0	14.9	15.9	16.5	14.7	15.9	14.8	16.0	16.5
	3H	16.3	17.4	16.7	17.9	17.9	16.2	17.4	16.4	17.8	18.0
	4H	16.9	18.1	17.4	18.7	18.8	16.9	18.1	17.3	18.5	18.8
	6H	17.6	18.5	18.0	18.9	18.9	17.4	18.3	17.8	18.9	19.0
	8H	17.8	18.9	18.1	19.0	19.3	17.7	18.7	17.9	19.0	19.3
4H	12H	17.9	18.8	18.1	19.2	19.5	17.7	18.7	18.1	19.2	19.6
	2H	15.7	16.6	15.9	16.8	17.0	15.6	16.6	15.8	16.9	17.0
	3H	17.5	18.4	17.7	18.4	18.8	17.3	18.2	17.6	18.3	18.7
	4H	18.3	18.9	18.5	19.1	19.5	18.0	18.9	18.4	19.1	19.6
	6H	18.8	19.5	19.1	19.8	20.2	18.7	19.5	18.9	19.7	20.0
8H	8H	19.0	19.7	19.4	20.0	20.3	19.0	19.5	19.3	20.0	20.3
	12H	19.2	19.8	19.7	20.0	20.5	19.1	19.8	19.5	20.1	20.5
	4H	18.5	19.2	18.8	19.4	19.8	18.5	19.1	18.7	19.4	19.8
	6H	19.3	19.8	19.8	20.2	20.6	19.2	19.7	19.6	20.2	20.5
	8H	19.8	20.2	20.2	20.5	20.9	19.6	20.0	20.1	20.4	21.0
12H	12H	20.0	20.4	20.4	20.9	21.1	19.8	20.3	20.3	20.8	21.2
	4H	18.6	19.2	19.1	19.6	19.8	18.5	19.0	18.9	19.4	19.8
	6H	19.5	20.0	19.9	20.2	20.7	19.4	19.9	19.8	20.2	20.6
	8H	19.9	20.3	20.4	20.5	21.1	19.8	20.2	20.3	20.6	21.0