

## Luminaire Property

Luminaire: RH-MSD06 6W 4000K

Report NO.:

Voltage: 220.0 V

Test NO.:

Current: 0.056 A

Lamp:

Power: 6.6 W

Sum Lumens: 400.72 lm

Power Factor: 0.531

Number of Lamps: 1

Ballast Type: EMC300mA

Diameter: mm

Width: 120mm

Length: 120mm

Height: 38mm

Photometric Type: Type C

Remark: PMMA+0.5W SMD2835

## Photometric Results

Lumens: 400.72 lm

Angle of maximum intensity: C:0.0 G:1.0

Effective luminous flux: 395.58 lm

Half Peak Side Angle(50%): Left: -52.9 Right:52.0

Efficiency: 60.7152 lm/W

Light Out Rate(LOR) : 100.00%

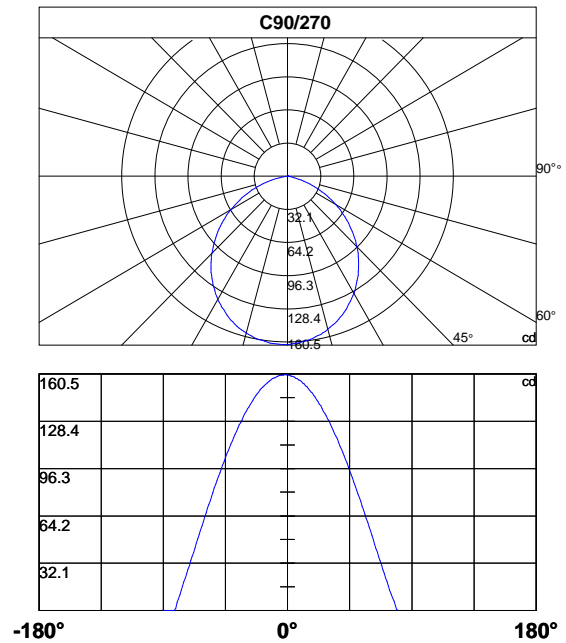
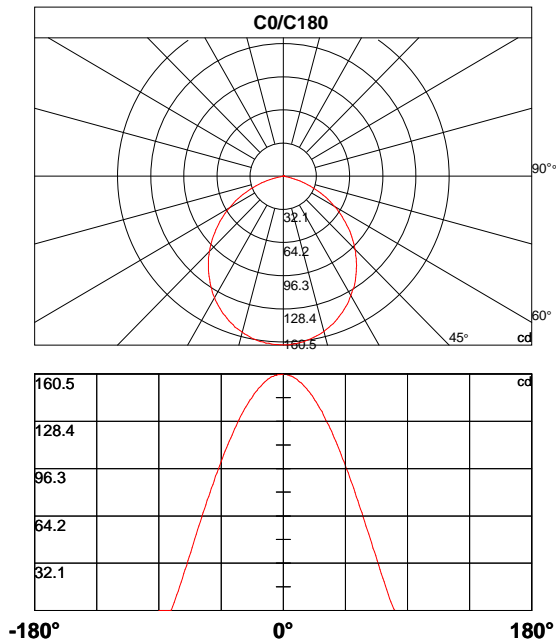
Central Intensity: 160.246cd

Up Flux Rate: 0.0%

Maximum Intensity: 160.474cd

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -75.1 Right:74.3



### 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>	160.2	160.5	160.3	159.9	159.8	159.3	159.0	158.7	157.9	157.5
<b>45.0</b>	160.2	159.7	159.2	158.9	158.8	158.3	157.6	157.2	156.5	156.1
<b>90.0</b>	160.2	159.7	159.2	158.9	158.8	158.3	157.6	157.2	156.5	156.1
<b>135.0</b>	160.2	160.3	160.1	160.2	160.1	159.5	159.6	158.8	158.8	158.3
<b>180.0</b>	160.2	160.3	160.1	160.2	160.1	159.5	159.6	158.8	158.8	158.3
<b>225.0</b>	160.2	160.0	160.1	159.7	159.6	159.7	159.5	159.0	158.6	158.1
<b>270.0</b>	160.2	160.0	160.1	159.7	159.6	159.7	159.5	159.0	158.6	158.1
<b>315.0</b>	160.2	160.5	160.3	159.9	159.8	159.3	159.0	158.7	157.9	157.5
<b>360.0</b>	160.2	160.5	160.3	159.9	159.8	159.3	159.0	158.7	157.9	157.5

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>	156.7	155.9	155.2	154.4	153.6	152.6	151.4	150.6	149.4	148.3
<b>45.0</b>	155.2	154.2	153.8	152.7	151.9	150.6	149.4	148.3	147.4	146.1
<b>90.0</b>	155.2	154.2	153.8	152.7	151.9	150.6	149.4	148.3	147.4	146.1
<b>135.0</b>	157.5	157.1	156.2	155.2	154.5	153.5	152.5	151.5	150.8	149.2
<b>180.0</b>	157.5	157.1	156.2	155.2	154.5	153.5	152.5	151.5	150.8	149.2
<b>225.0</b>	157.8	157.5	156.6	155.8	155.1	154.2	153.3	152.5	151.7	150.8
<b>270.0</b>	157.8	157.5	156.6	155.8	155.1	154.2	153.3	152.5	151.7	150.8
<b>315.0</b>	156.7	155.9	155.2	154.4	153.6	152.6	151.4	150.6	149.4	148.3
<b>360.0</b>	156.7	155.9	155.2	154.4	153.6	152.6	151.4	150.6	149.4	148.3

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>	146.9	145.5	144.0	142.5	141.4	139.5	138.1	136.5	135.0	132.7
<b>45.0</b>	144.8	142.9	141.9	140.2	139.0	137.1	135.2	133.6	132.0	130.1
<b>90.0</b>	144.8	142.9	141.9	140.2	139.0	137.1	135.2	133.6	132.0	130.1
<b>135.0</b>	148.2	147.1	145.5	144.1	143.0	141.4	139.8	138.2	136.8	135.0
<b>180.0</b>	148.2	147.1	145.5	144.1	143.0	141.4	139.8	138.2	136.8	135.0
<b>225.0</b>	149.6	148.0	147.2	145.7	144.3	142.8	141.3	139.8	138.1	136.8
<b>270.0</b>	149.6	148.0	147.2	145.7	144.3	142.8	141.3	139.8	138.1	136.8
<b>315.0</b>	146.9	145.5	144.0	142.5	141.4	139.5	138.1	136.5	135.0	132.7
<b>360.0</b>	146.9	145.5	144.0	142.5	141.4	139.5	138.1	136.5	135.0	132.7

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>	131.0	129.1	127.0	125.8	123.5	121.5	119.3	117.1	114.9	112.7
<b>45.0</b>	128.5	126.5	124.6	122.1	120.0	118.5	116.4	113.7	111.5	109.3
<b>90.0</b>	128.5	126.5	124.6	122.1	120.0	118.5	116.4	113.7	111.5	109.3
<b>135.0</b>	133.2	131.6	129.6	127.4	125.5	123.4	121.3	119.1	117.1	114.9
<b>180.0</b>	133.2	131.6	129.6	127.4	125.5	123.4	121.3	119.1	117.1	114.9
<b>225.0</b>	135.2	133.4	131.6	129.3	127.4	125.9	123.7	121.6	119.4	117.5
<b>270.0</b>	135.2	133.4	131.6	129.3	127.4	125.9	123.7	121.6	119.4	117.5
<b>315.0</b>	131.0	129.1	127.0	125.8	123.5	121.5	119.3	117.1	114.9	112.7
<b>360.0</b>	131.0	129.1	127.0	125.8	123.5	121.5	119.3	117.1	114.9	112.7

### 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	110.6	107.9	105.6	103.0	100.8	98.3	95.9	93.3	90.6	87.9
45.0	107.1	105.0	102.5	100.1	97.5	94.9	92.1	90.0	87.1	84.3
90.0	107.1	105.0	102.5	100.1	97.5	94.9	92.1	90.0	87.1	84.3
135.0	112.7	110.5	108.2	106.1	103.4	101.2	98.3	96.1	93.3	91.1
180.0	112.7	110.5	108.2	106.1	103.4	101.2	98.3	96.1	93.3	91.1
225.0	115.2	113.0	110.5	108.3	106.1	103.6	101.1	98.6	96.1	93.4
270.0	115.2	113.0	110.5	108.3	106.1	103.6	101.1	98.6	96.1	93.4
315.0	110.6	107.9	105.6	103.0	100.8	98.3	95.9	93.3	90.6	87.9
360.0	110.6	107.9	105.6	103.0	100.8	98.3	95.9	93.3	90.6	87.9

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	85.4	83.0	80.2	77.1	74.5	71.4	68.9	66.2	63.0	60.4
45.0	81.6	79.0	76.4	74.1	70.9	68.0	65.1	62.4	59.8	56.7
90.0	81.6	79.0	76.4	74.1	70.9	68.0	65.1	62.4	59.8	56.7
135.0	88.1	85.5	82.9	79.9	77.3	74.8	71.8	69.1	66.3	63.2
180.0	88.1	85.5	82.9	79.9	77.3	74.8	71.8	69.1	66.3	63.2
225.0	90.7	88.3	85.9	83.3	80.1	77.6	74.5	71.8	69.4	66.3
270.0	90.7	88.3	85.9	83.3	80.1	77.6	74.5	71.8	69.4	66.3
315.0	85.4	83.0	80.2	77.1	74.5	71.4	68.9	66.2	63.0	60.4
360.0	85.4	83.0	80.2	77.1	74.5	71.4	68.9	66.2	63.0	60.4

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	57.4	54.4	51.8	48.5	45.8	42.4	39.7	37.1	34.0	30.8
45.0	54.2	50.8	48.2	45.0	42.2	39.4	36.4	33.8	30.7	27.6
90.0	54.2	50.8	48.2	45.0	42.2	39.4	36.4	33.8	30.7	27.6
135.0	60.4	57.4	54.7	51.6	48.4	45.3	42.5	39.5	36.5	33.9
180.0	60.4	57.4	54.7	51.6	48.4	45.3	42.5	39.5	36.5	33.9
225.0	63.3	60.1	57.3	54.5	51.5	48.9	45.6	42.4	39.6	36.8
270.0	63.3	60.1	57.3	54.5	51.5	48.9	45.6	42.4	39.6	36.8
315.0	57.4	54.4	51.8	48.5	45.8	42.4	39.7	37.1	34.0	30.8
360.0	57.4	54.4	51.8	48.5	45.8	42.4	39.7	37.1	34.0	30.8

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	27.8	24.8	21.9	19.5	16.8	14.0	10.9	8.1	5.8	3.2
45.0	25.4	22.4	19.6	16.6	13.6	11.0	8.7	6.2	3.4	0.7
90.0	25.4	22.4	19.6	16.6	13.6	11.0	8.7	6.2	3.4	0.7
135.0	30.5	27.8	25.2	21.9	19.3	16.4	13.2	10.5	8.1	5.5
180.0	30.5	27.8	25.2	21.9	19.3	16.4	13.2	10.5	8.1	5.5
225.0	34.1	30.7	28.1	25.0	22.1	19.6	16.5	13.8	10.5	7.8
270.0	34.1	30.7	28.1	25.0	22.1	19.6	16.5	13.8	10.5	7.8
315.0	27.8	24.8	21.9	19.5	16.8	14.0	10.9	8.1	5.8	3.2
360.0	27.8	24.8	21.9	19.5	16.8	14.0	10.9	8.1	5.8	3.2

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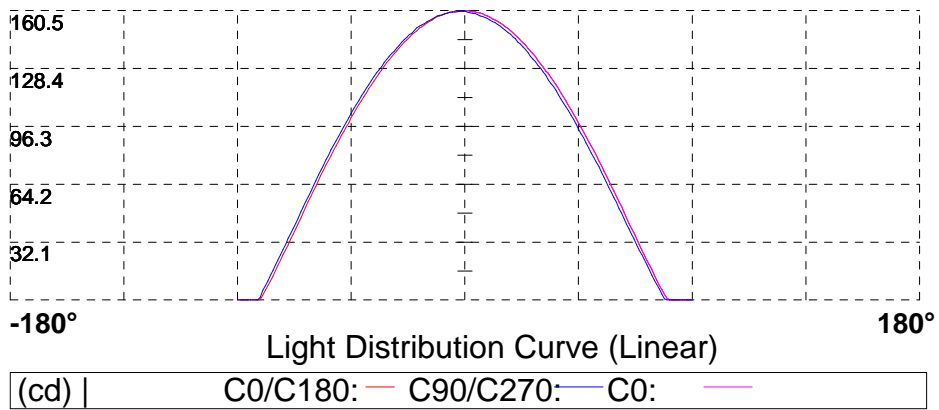
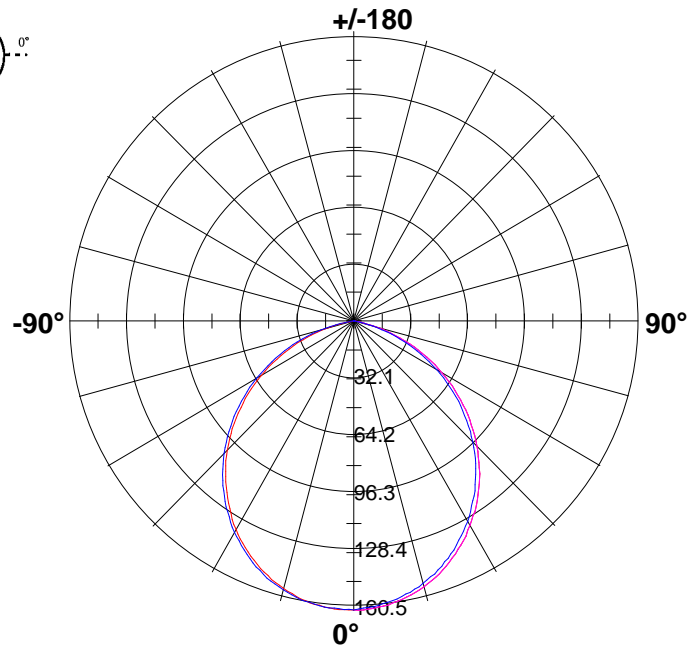
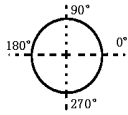
### Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	5.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	5.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

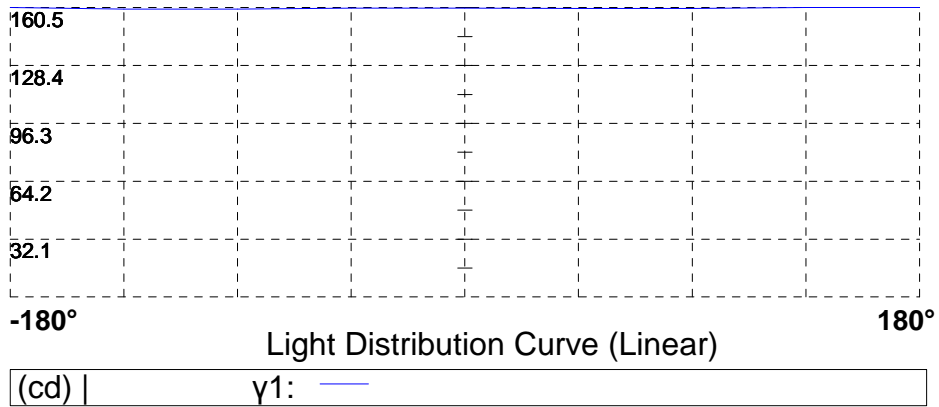
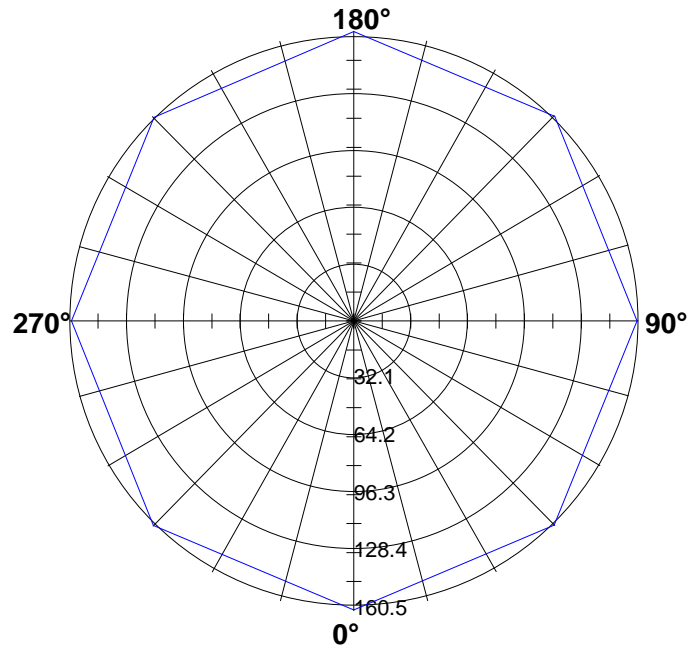
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

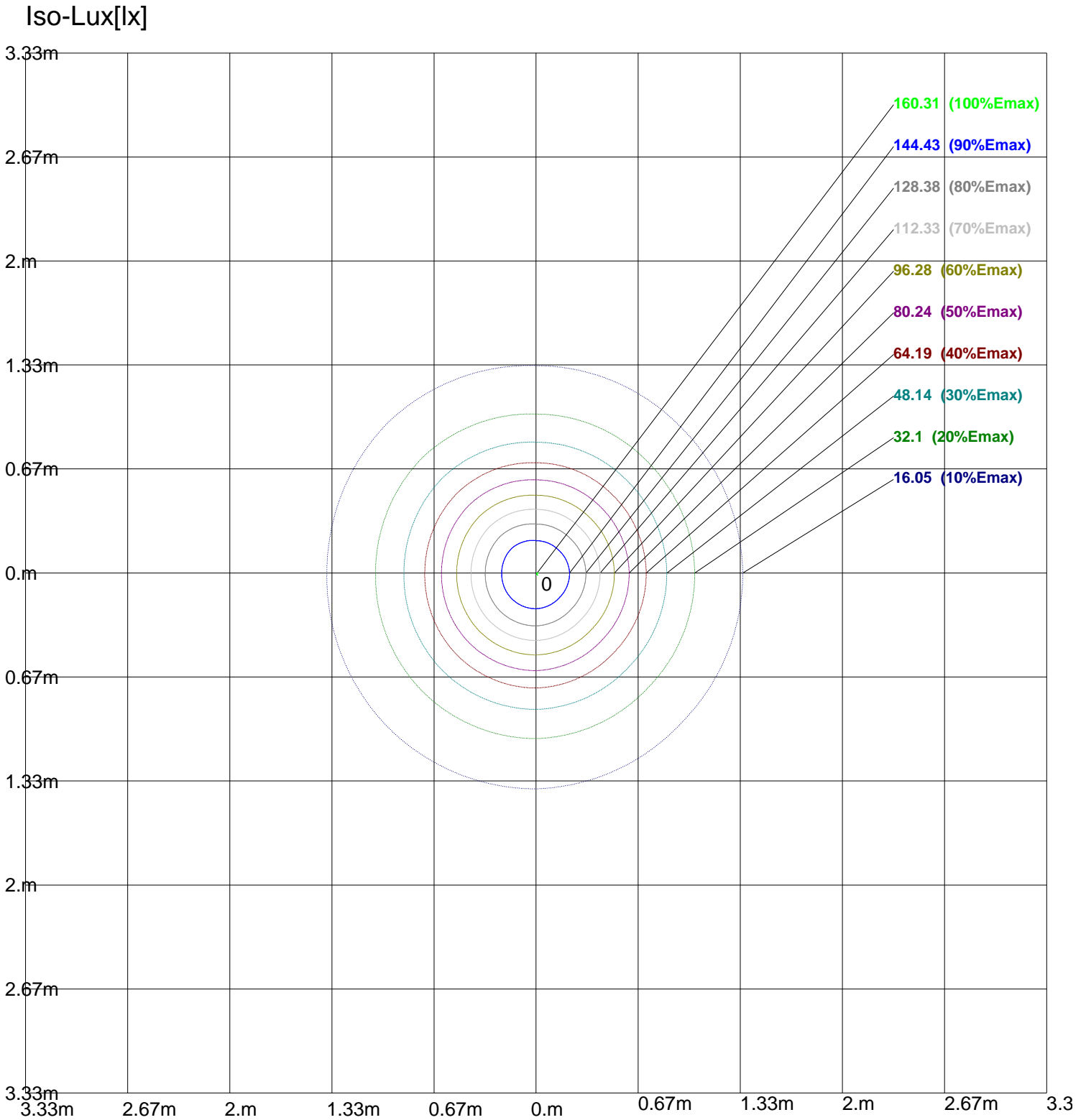
Light Distribution Curve [Unit: cd]

Luminaire



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





Height: 1 m  
Max Illuminance : 160.47lx

## Luminance Limiting Curve

Diameter: mm

Length: 120mm

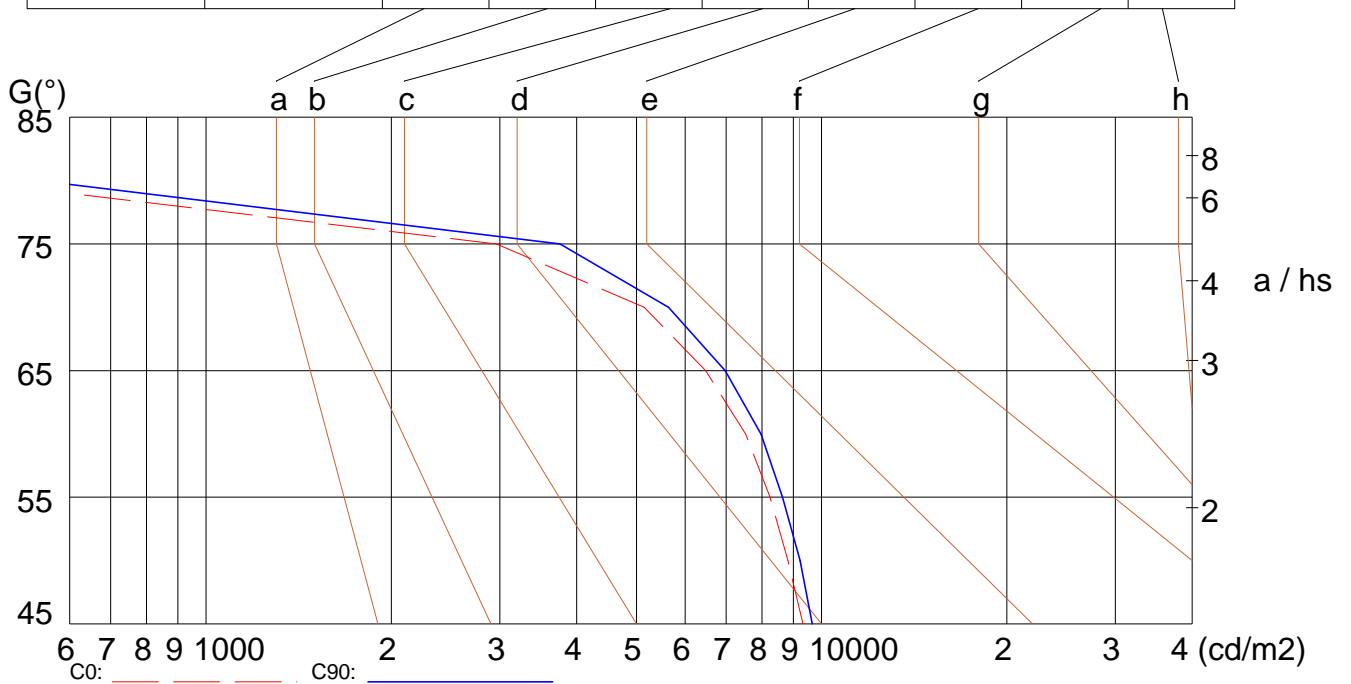
Width: 120mm

Height: 38mm

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

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	9318	8815	8238	7526	6477	5148	2963	0	
C90	9655	9229	8641	7974	6972	5636	3758	388	

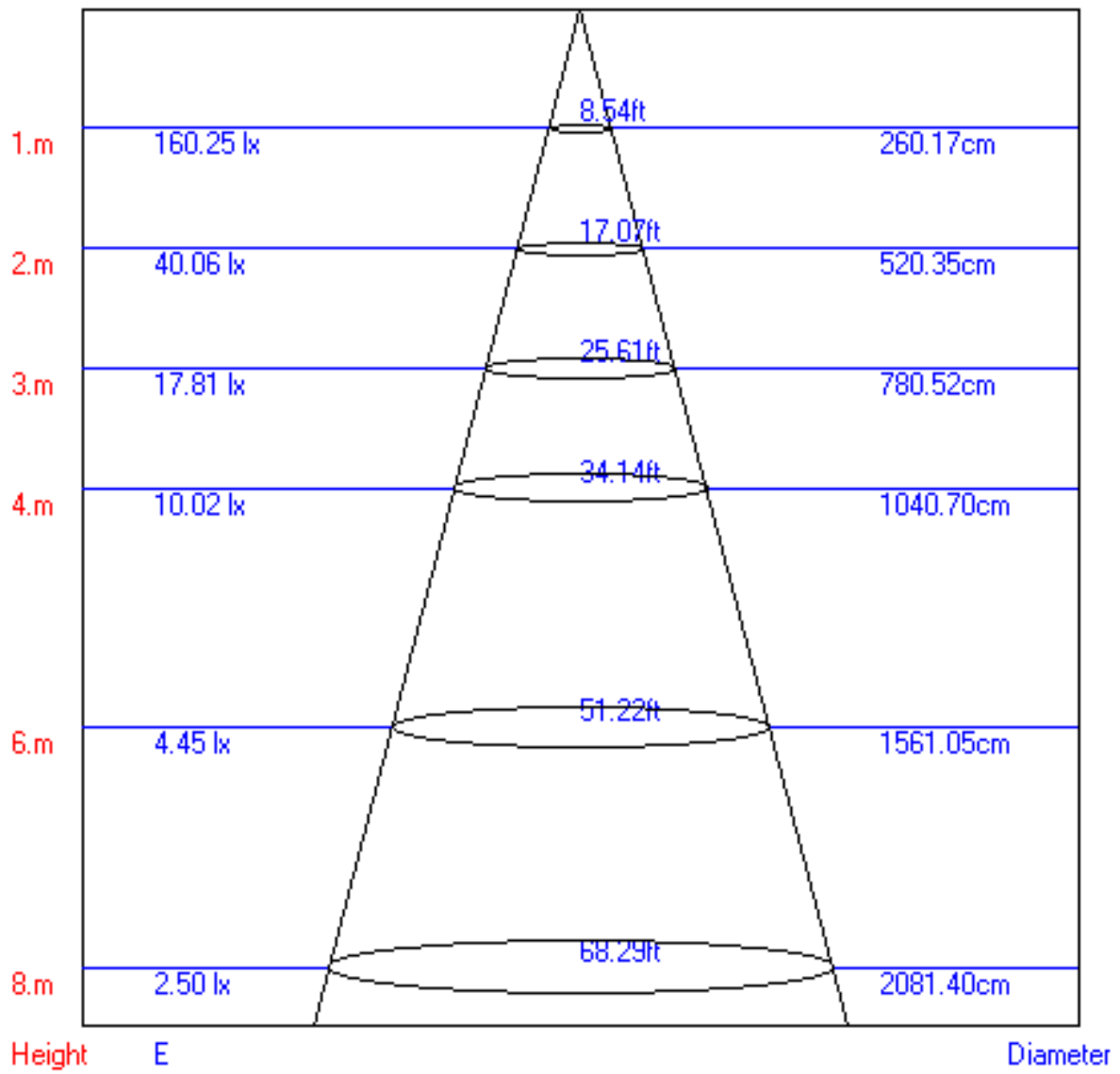
Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)



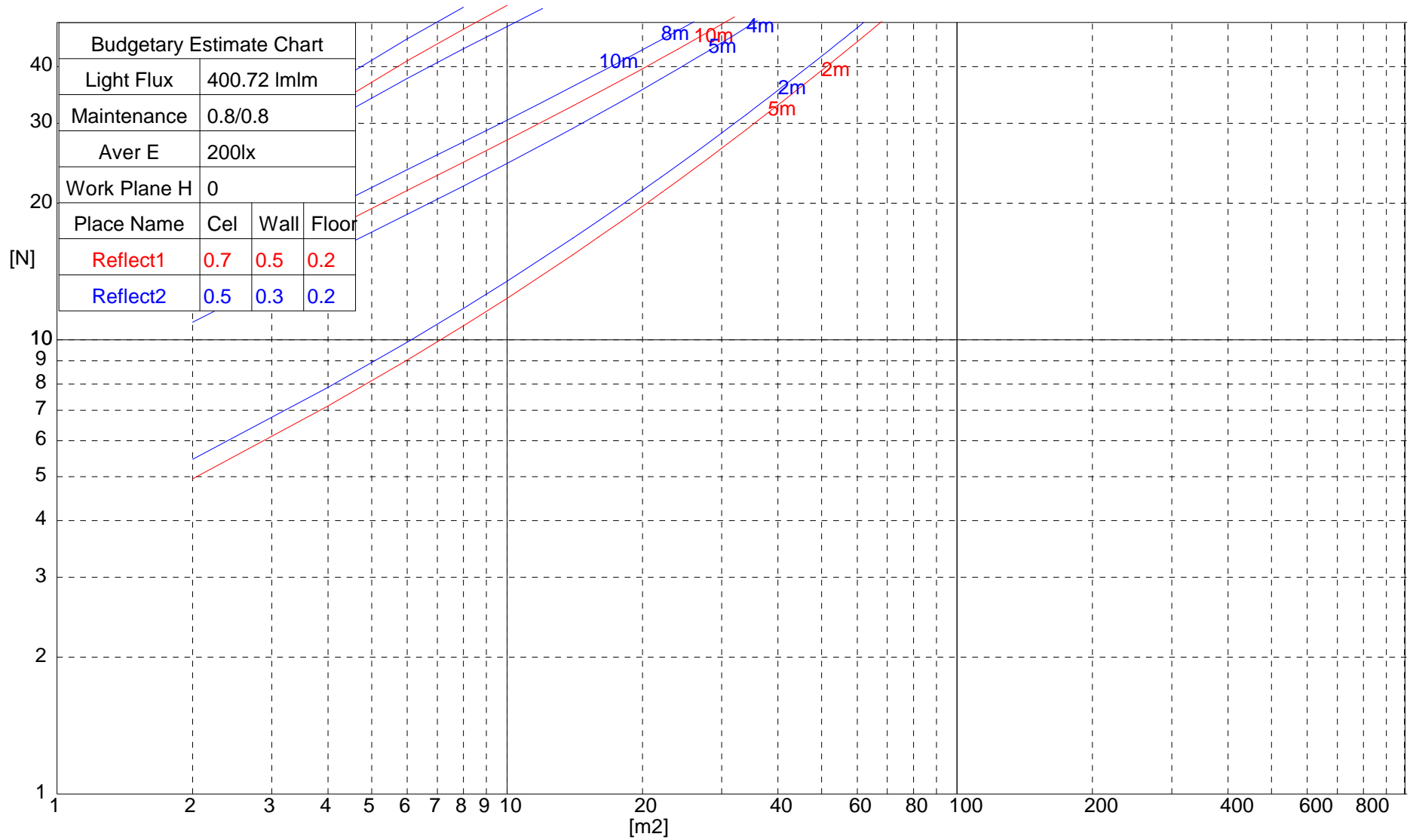
### Lux-Distance Curve



Beam Angle:104.90°

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	1.07	1.06	1.04	1.06	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.92	0.90	0.88	0.92	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
3	0.80	0.77	0.75	0.80	0.76	0.74	0.78	0.74	0.71	0.76	0.71	0.67	0.72	0.67	0.63	0.59
4	0.69	0.67	0.65	0.70	0.66	0.64	0.69	0.64	0.61	0.67	0.62	0.58	0.65	0.59	0.55	0.51
5	0.61	0.58	0.56	0.61	0.58	0.55	0.61	0.57	0.53	0.60	0.55	0.51	0.59	0.53	0.48	0.44
6	0.54	0.51	0.50	0.55	0.51	0.49	0.55	0.50	0.47	0.55	0.49	0.45	0.54	0.47	0.42	0.39
7	0.48	0.46	0.44	0.49	0.45	0.43	0.50	0.45	0.41	0.50	0.44	0.40	0.49	0.43	0.38	0.34
8	0.43	0.41	0.39	0.44	0.41	0.39	0.45	0.40	0.37	0.46	0.40	0.36	0.45	0.39	0.34	0.31
9	0.39	0.37	0.36	0.40	0.37	0.35	0.41	0.37	0.34	0.42	0.36	0.32	0.42	0.35	0.31	0.28
10	0.36	0.34	0.32	0.37	0.34	0.32	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.33	0.28	0.25



## 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	14.8	15.9	15.1	15.9	16.3	14.7	15.9	14.9	15.9	16.3
	3H	16.2	17.4	16.7	17.7	18.0	16.2	17.4	16.5	17.9	18.0
	4H	16.9	18.1	17.4	18.6	18.7	17.0	18.0	17.3	18.6	18.8
	6H	17.5	18.5	18.0	18.9	19.0	17.3	18.3	17.8	18.8	19.1
	8H	17.9	18.9	18.2	18.9	19.3	17.8	18.7	18.0	19.0	19.3
	12H	18.0	18.8	18.2	19.3	19.5	17.8	18.6	18.0	19.2	19.5
4H	2H	15.6	16.6	15.9	16.9	17.1	15.6	16.6	15.8	16.8	17.0
	3H	17.5	18.4	17.8	18.3	18.7	17.3	18.2	17.5	18.4	18.8
	4H	18.2	19.0	18.5	19.1	19.5	18.0	18.9	18.4	19.2	19.5
	6H	18.8	19.5	19.2	19.8	20.1	18.8	19.4	19.0	19.7	20.1
	8H	19.0	19.8	19.5	19.9	20.4	19.0	19.6	19.2	19.9	20.3
	12H	19.3	19.9	19.7	20.2	20.4	19.2	19.7	19.6	20.2	20.5
8H	4H	18.6	19.2	18.8	19.4	19.9	18.4	19.0	18.8	19.4	19.8
	6H	19.4	19.8	19.7	20.2	20.7	19.2	19.9	19.7	20.2	20.6
	8H	19.8	20.2	20.1	20.5	20.9	19.6	20.0	20.0	20.5	20.9
	12H	19.9	20.5	20.4	20.7	21.3	19.9	20.4	20.2	20.7	21.1
12H	4H	18.6	19.1	18.9	19.5	19.9	18.4	19.0	18.8	19.6	19.9
	6H	19.6	20.0	19.9	20.2	20.6	19.3	19.8	19.8	20.2	20.7
	8H	19.9	20.4	20.3	20.7	21.1	19.9	20.3	20.2	20.6	21.1