

Luminaire Property

Luminaire: RPL32 32W 4000K

Report NO.:

Voltage: 220.9 V

Test NO.:

Current: 0.154 A

Lamp:

Power: 31.8 W

Sum Lumens: 2761.42 lm

Power Factor: 0.932

Number of Lamps: 1

Ballast Type:

Diameter: 400mm

Width: 400mm

Length: mm

Height: 20mm

Photometric Type: Type C

Remark: 0.5W SMD2835

Photometric Results

Lumens: 2761.42 lm

Angle of maximum intensity: C:135.0 G:1.0

Effective luminous flux: 2718.24 lm

Half Peak Side Angle(50%): Left: -54.5 Right:57.2

Efficiency: 86.8371 lm/W

Light Out Rate(LOR) : 100.00%

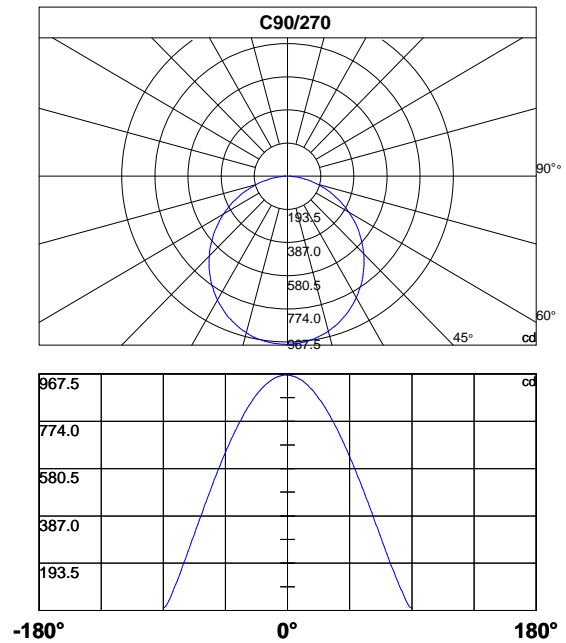
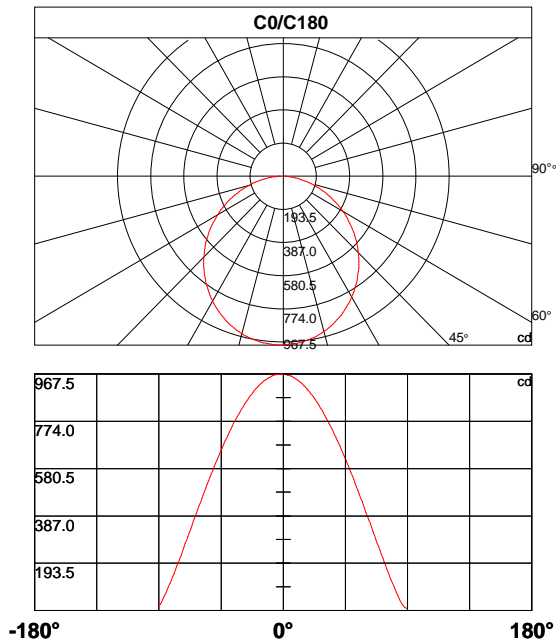
Central Intensity: 965.38cd

Up Flux Rate: 0.0%

Maximum Intensity: 967.493cd

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -80.3 Right:83.0



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
0.0	965.4	966.3	965.2	963.3	962.4	960.0	958.0	955.1	951.6	948.1
45.0	965.4	962.1	961.6	960.5	959.0	957.2	954.9	951.9	948.5	945.3
90.0	965.4	962.1	961.6	960.5	959.0	957.2	954.9	951.9	948.5	945.3
135.0	965.4	967.5	967.2	966.8	965.7	964.8	963.4	961.8	959.7	956.6
180.0	965.4	967.5	967.2	966.8	965.7	964.8	963.4	961.8	959.7	956.6
225.0	965.4	963.2	963.4	962.3	961.5	959.6	958.9	956.5	954.7	951.6
270.0	965.4	963.2	963.4	962.3	961.5	959.6	958.9	956.5	954.7	951.6
315.0	965.4	966.3	965.2	963.3	962.4	960.0	958.0	955.1	951.6	948.1
360.0	965.4	966.3	965.2	963.3	962.4	960.0	958.0	955.1	951.6	948.1

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	943.8	940.5	936.2	930.7	925.7	919.3	914.5	908.2	901.4	895.0
45.0	942.2	938.3	934.1	929.3	924.9	918.9	913.0	906.9	902.1	895.4
90.0	942.2	938.3	934.1	929.3	924.9	918.9	913.0	906.9	902.1	895.4
135.0	953.8	950.4	946.4	943.0	939.1	934.4	929.3	923.5	918.0	912.0
180.0	953.8	950.4	946.4	943.0	939.1	934.4	929.3	923.5	918.0	912.0
225.0	948.4	945.7	942.0	937.8	933.1	928.6	923.2	917.9	912.4	905.9
270.0	948.4	945.7	942.0	937.8	933.1	928.6	923.2	917.9	912.4	905.9
315.0	943.8	940.5	936.2	930.7	925.7	919.3	914.5	908.2	901.4	895.0
360.0	943.8	940.5	936.2	930.7	925.7	919.3	914.5	908.2	901.4	895.0

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	887.2	879.8	871.8	864.5	855.9	847.0	838.2	828.2	820.0	809.9
45.0	888.2	880.5	872.5	865.1	857.9	849.3	840.7	831.0	822.0	813.5
90.0	888.2	880.5	872.5	865.1	857.9	849.3	840.7	831.0	822.0	813.5
135.0	905.9	899.2	892.2	884.6	876.7	870.0	861.2	852.7	844.1	834.2
180.0	905.9	899.2	892.2	884.6	876.7	870.0	861.2	852.7	844.1	834.2
225.0	899.6	892.7	885.5	879.5	871.6	862.8	854.4	845.7	836.8	828.8
270.0	899.6	892.7	885.5	879.5	871.6	862.8	854.4	845.7	836.8	828.8
315.0	887.2	879.8	871.8	864.5	855.9	847.0	838.2	828.2	820.0	809.9
360.0	887.2	879.8	871.8	864.5	855.9	847.0	838.2	828.2	820.0	809.9

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	799.5	789.1	777.8	767.0	757.2	745.8	734.2	721.9	709.1	697.1
45.0	802.8	793.6	782.3	772.3	760.9	751.1	739.7	727.9	716.1	703.6
90.0	802.8	793.6	782.3	772.3	760.9	751.1	739.7	727.9	716.1	703.6
135.0	825.1	816.2	806.0	795.7	785.1	774.1	764.3	753.2	741.3	729.0
180.0	825.1	816.2	806.0	795.7	785.1	774.1	764.3	753.2	741.3	729.0
225.0	819.3	809.0	798.7	788.4	776.8	767.6	756.8	745.2	733.1	721.3
270.0	819.3	809.0	798.7	788.4	776.8	767.6	756.8	745.2	733.1	721.3
315.0	799.5	789.1	777.8	767.0	757.2	745.8	734.2	721.9	709.1	697.1
360.0	799.5	789.1	777.8	767.0	757.2	745.8	734.2	721.9	709.1	697.1

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	686.0	673.2	659.5	646.7	632.6	620.7	607.4	592.7	579.1	564.4
45.0	691.1	680.6	667.6	654.8	641.6	628.2	614.5	603.3	588.9	574.5
90.0	691.1	680.6	667.6	654.8	641.6	628.2	614.5	603.3	588.9	574.5
135.0	716.8	704.6	694.2	681.4	667.9	654.8	641.1	628.1	616.1	602.5
180.0	716.8	704.6	694.2	681.4	667.9	654.8	641.1	628.1	616.1	602.5
225.0	710.7	698.3	685.6	672.2	659.4	645.7	634.1	620.5	606.1	592.0
270.0	710.7	698.3	685.6	672.2	659.4	645.7	634.1	620.5	606.1	592.0
315.0	686.0	673.2	659.5	646.7	632.6	620.7	607.4	592.7	579.1	564.4
360.0	686.0	673.2	659.5	646.7	632.6	620.7	607.4	592.7	579.1	564.4

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	549.7	536.7	521.6	507.1	491.4	476.4	461.3	447.6	432.0	416.2
45.0	560.3	546.2	533.4	518.5	504.0	489.1	474.1	458.1	445.2	429.8
90.0	560.3	546.2	533.4	518.5	504.0	489.1	474.1	458.1	445.2	429.8
135.0	588.0	573.8	558.9	546.3	532.0	517.1	501.5	486.7	471.5	455.8
180.0	588.0	573.8	558.9	546.3	532.0	517.1	501.5	486.7	471.5	455.8
225.0	577.3	563.3	550.4	535.9	520.4	505.1	490.3	474.5	461.0	445.4
270.0	577.3	563.3	550.4	535.9	520.4	505.1	490.3	474.5	461.0	445.4
315.0	549.7	536.7	521.6	507.1	491.4	476.4	461.3	447.6	432.0	416.2
360.0	549.7	536.7	521.6	507.1	491.4	476.4	461.3	447.6	432.0	416.2

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	400.5	384.5	370.9	355.4	339.2	323.0	306.7	291.2	275.3	261.6
45.0	414.5	399.4	383.4	367.3	352.1	338.6	322.4	307.2	291.1	275.2
90.0	414.5	399.4	383.4	367.3	352.1	338.6	322.4	307.2	291.1	275.2
135.0	442.0	427.2	411.4	395.8	379.8	366.0	350.3	334.3	318.4	302.3
180.0	442.0	427.2	411.4	395.8	379.8	366.0	350.3	334.3	318.4	302.3
225.0	430.2	413.6	397.9	381.9	368.4	352.0	336.0	319.3	303.4	289.8
270.0	430.2	413.6	397.9	381.9	368.4	352.0	336.0	319.3	303.4	289.8
315.0	400.5	384.5	370.9	355.4	339.2	323.0	306.7	291.2	275.3	261.6
360.0	400.5	384.5	370.9	355.4	339.2	323.0	306.7	291.2	275.3	261.6

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	246.0	229.9	214.4	198.7	185.6	170.5	155.7	140.8	126.1	112.1
45.0	262.1	246.0	230.4	215.1	200.1	183.9	171.5	156.9	141.9	127.8
90.0	262.1	246.0	230.4	215.1	200.1	183.9	171.5	156.9	141.9	127.8
135.0	286.5	273.0	256.8	241.9	226.0	210.5	194.8	181.8	167.1	151.9
180.0	286.5	273.0	256.8	241.9	226.0	210.5	194.8	181.8	167.1	151.9
225.0	273.8	257.7	241.0	225.5	209.3	195.6	180.5	164.4	149.3	133.8
270.0	273.8	257.7	241.0	225.5	209.3	195.6	180.5	164.4	149.3	133.8
315.0	246.0	229.9	214.4	198.7	185.6	170.5	155.7	140.8	126.1	112.1
360.0	246.0	229.9	214.4	198.7	185.6	170.5	155.7	140.8	126.1	112.1

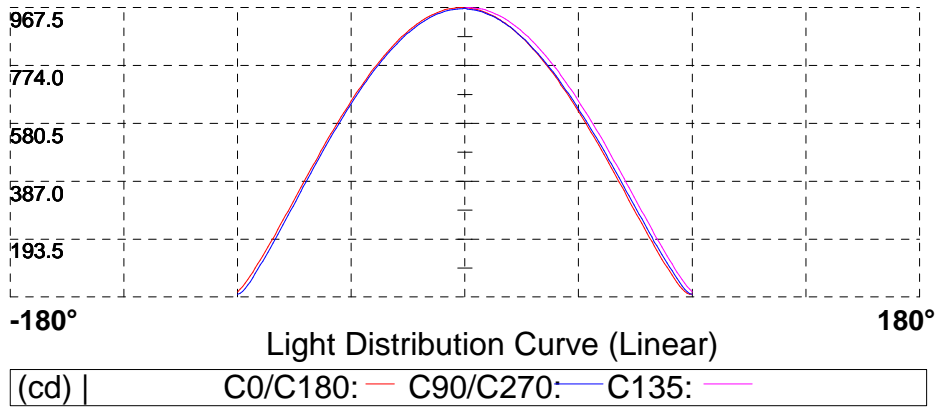
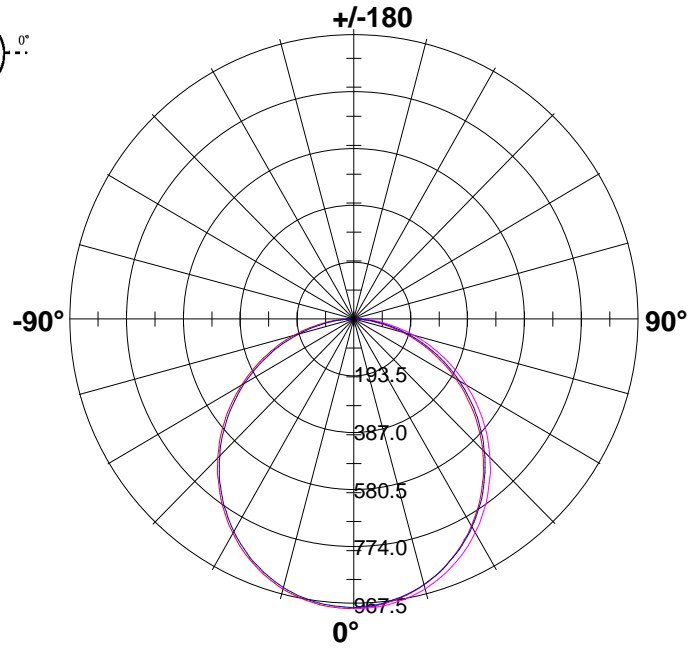
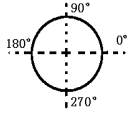
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	100.2	87.0	73.6	61.3	48.8	36.9	26.7	19.0	12.5	9.4
45.0	114.1	99.7	88.1	75.5	62.5	49.9	37.3	26.4	17.3	11.8
90.0	114.1	99.7	88.1	75.5	62.5	49.9	37.3	26.4	17.3	11.8
135.0	137.3	123.1	111.0	97.3	83.5	70.9	58.2	47.0	35.1	25.8
180.0	137.3	123.1	111.0	97.3	83.5	70.9	58.2	47.0	35.1	25.8
225.0	119.2	107.0	92.7	78.3	65.2	51.5	39.8	28.7	19.1	12.5
270.0	119.2	107.0	92.7	78.3	65.2	51.5	39.8	28.7	19.1	12.5
315.0	100.2	87.0	73.6	61.3	48.8	36.9	26.7	19.0	12.5	9.4
360.0	100.2	87.0	73.6	61.3	48.8	36.9	26.7	19.0	12.5	9.4

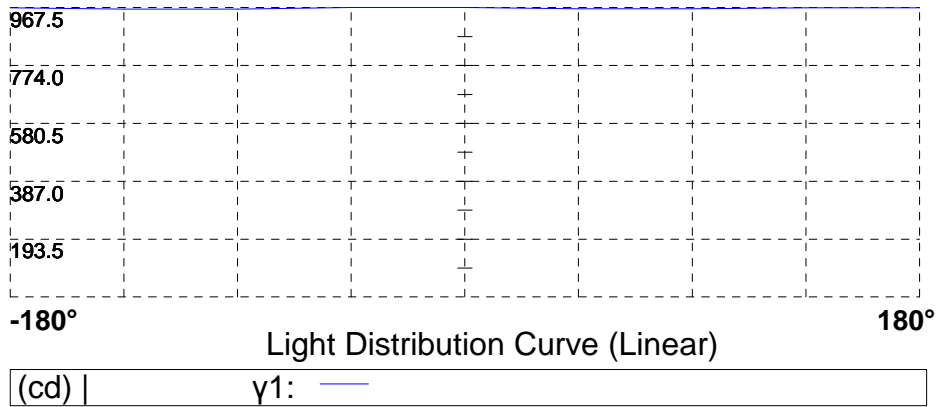
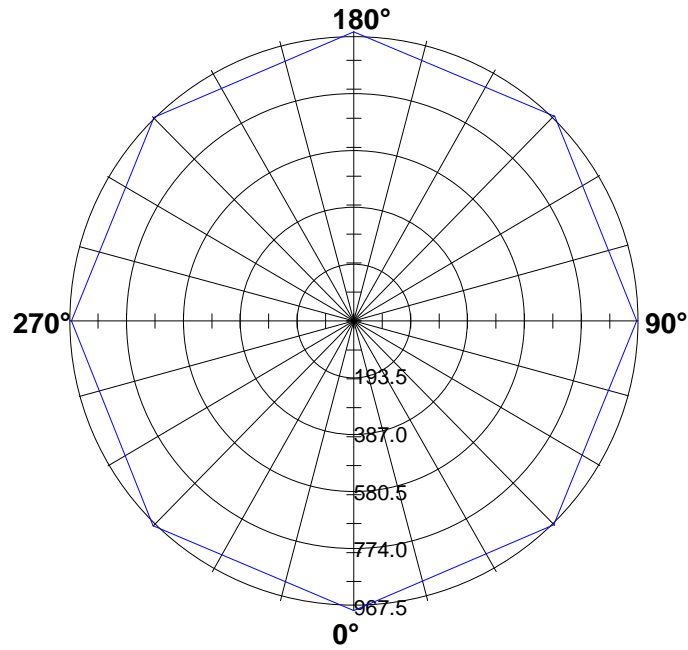
C\G	90.0
0.0	9.8
45.0	9.7
90.0	9.7
135.0	16.9
180.0	16.9
225.0	9.3
270.0	9.3
315.0	9.8
360.0	9.8

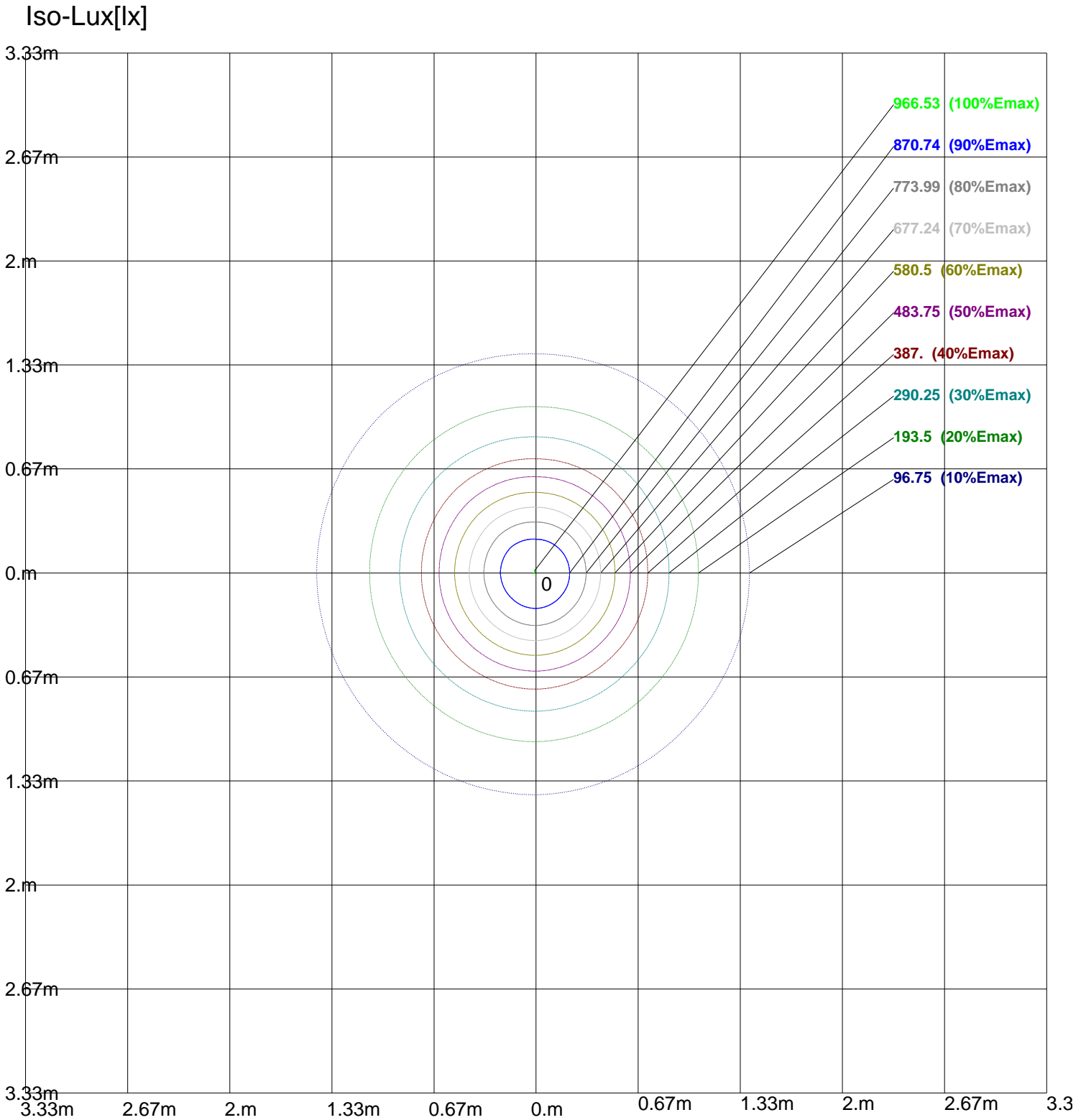
Light Distribution Curve [Unit: cd]

Luminaire



Max Plane Light Distribution Curve [Unit: cd]





Height: 1 m
Max Illuminance : 967.49lx

Luminance Limiting Curve

Diameter: 400mm

Length: mm

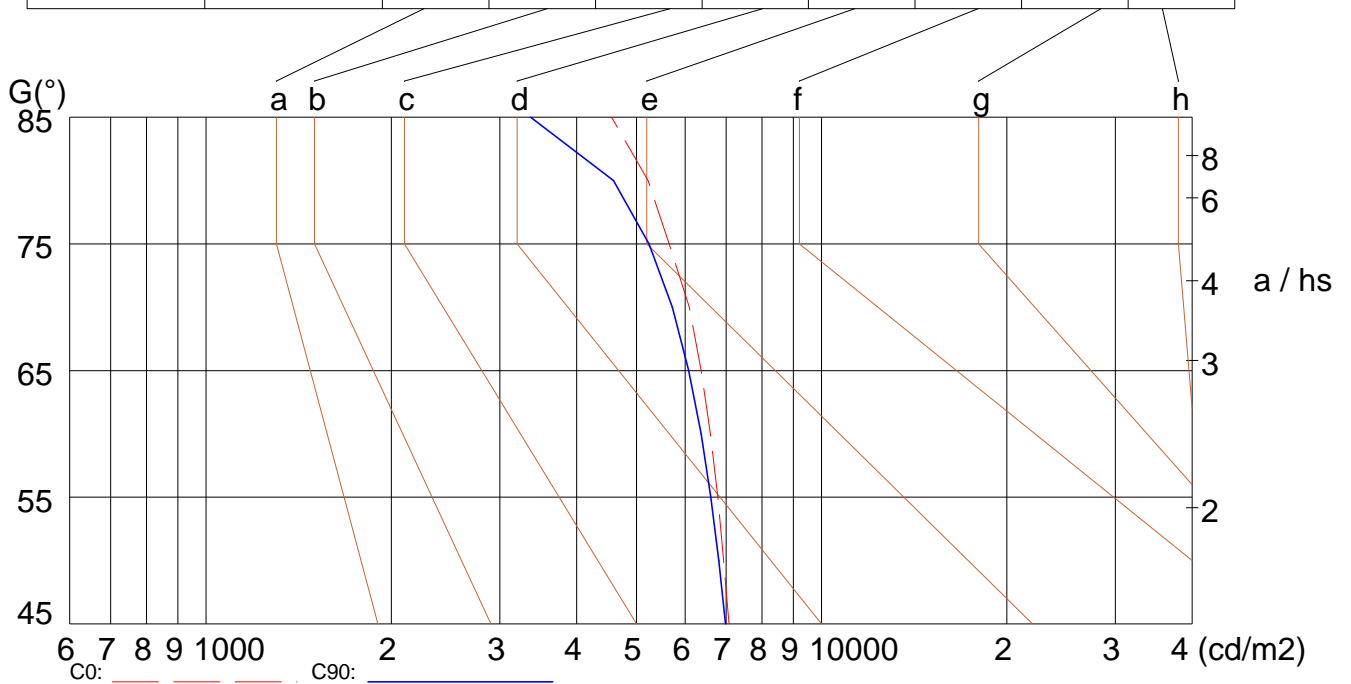
Width: 400mm

Height: 20mm

(cd/m²)

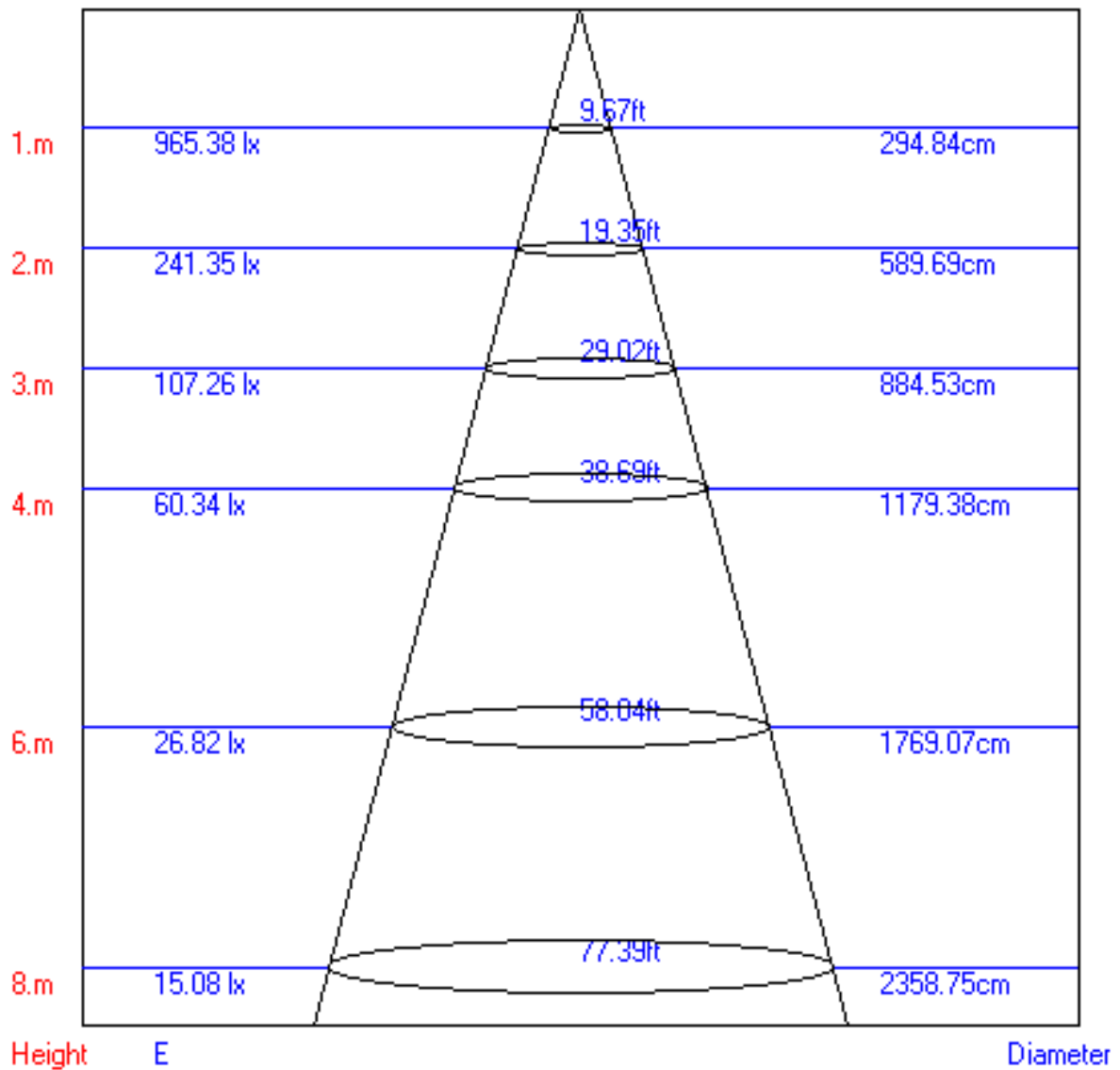
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	7068	6935	6784	6595	6374	6095	5654	5225	4559
C90	6983	6803	6607	6373	6080	5721	5242	4591	3364

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)

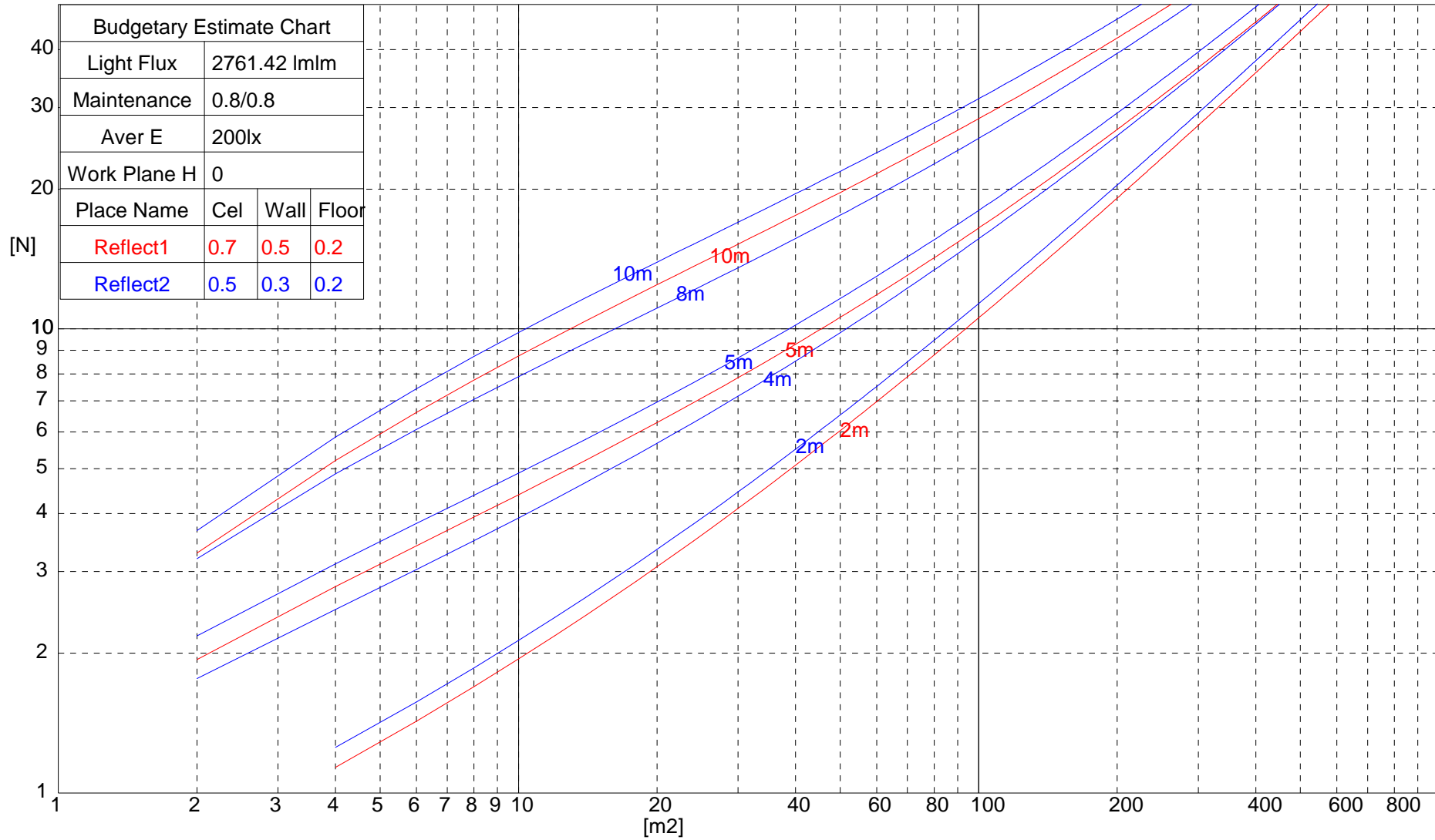
Lux-Distance Curve



Beam Angle:111.70°

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	1.04	1.02	1.00	1.03	1.00	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.85	0.83	0.78
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.70	0.65
3	0.75	0.72	0.70	0.75	0.71	0.69	0.74	0.69	0.66	0.72	0.67	0.63	0.69	0.63	0.59	0.54
4	0.65	0.62	0.60	0.65	0.61	0.59	0.65	0.60	0.56	0.64	0.58	0.53	0.62	0.55	0.50	0.46
5	0.56	0.53	0.52	0.57	0.53	0.51	0.57	0.52	0.49	0.57	0.51	0.46	0.56	0.49	0.44	0.40
6	0.50	0.47	0.45	0.50	0.47	0.44	0.51	0.46	0.42	0.51	0.45	0.41	0.51	0.44	0.39	0.35
7	0.44	0.41	0.40	0.45	0.41	0.39	0.46	0.41	0.38	0.47	0.40	0.36	0.46	0.39	0.34	0.31
8	0.40	0.37	0.35	0.41	0.37	0.35	0.42	0.37	0.34	0.43	0.36	0.32	0.43	0.36	0.31	0.28
9	0.36	0.33	0.32	0.37	0.33	0.31	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.33	0.28	0.25
10	0.33	0.30	0.29	0.34	0.30	0.28	0.35	0.30	0.27	0.36	0.30	0.26	0.37	0.30	0.25	0.22



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
4H	12H	18.0	18.8	18.2	19.3	19.5	17.8	18.6	18.0	19.2	19.5
	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	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
	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	12H	19.9	20.5	20.4	20.7	21.3	19.9	20.4	20.2	20.7	21.1
	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