

Luminaire Property

Luminaire: RH-CL2609 15W 3000K

Report NO.:

Voltage: 220.9 V

Test NO.:

Current: 0.068 A

Lamp:

Power: 14.6 W

Sum Lumens: 995.45 lm

Power Factor: 0.966

Number of Lamps: 1

Ballast Type:

Diameter: 95mm

Width: 95mm

Length: mm

Height: 102mm

Photometric Type: Type C

Remark:

Photometric Results

Lumens: 995.45 lm

Angle of maximum intensity: C:0.0 G:1.0

Effective luminous flux: 920.2 lm

Half Peak Side Angle(50%): Left: -13.8 Right:17.6

Efficiency: 68.1815 lm/W

Light Out Rate(LOR) : 100.00%

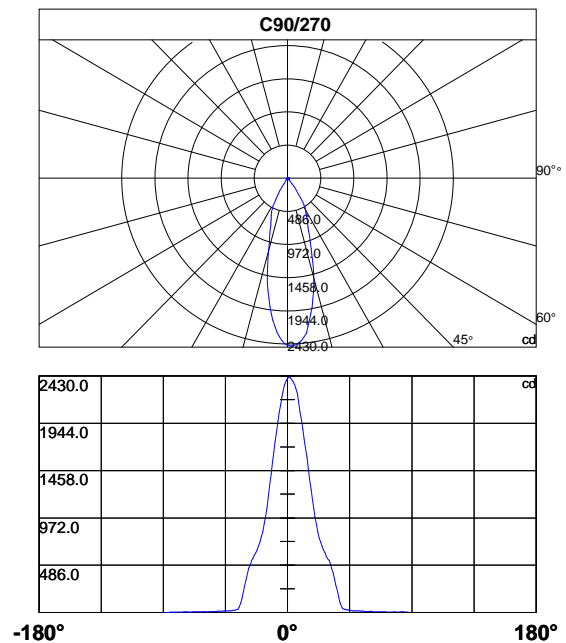
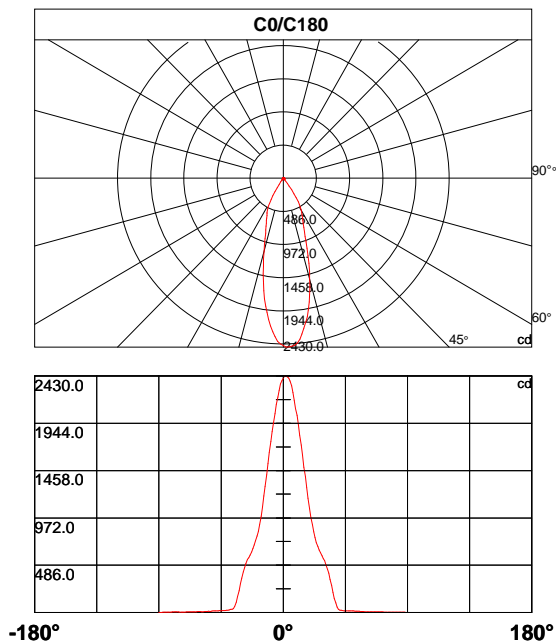
Central Intensity: 2408.841cd

Up Flux Rate: 0.0%

Maximum Intensity: 2429.955cd

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -31.7 Right:35.5



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	2408.8	2430.0	2428.0	2421.9	2408.6	2377.9	2329.8	2261.1	2181.9	2096.9
45.0	2408.8	2413.4	2412.5	2395.8	2373.1	2342.2	2301.6	2247.0	2154.4	2059.2
90.0	2408.8	2413.4	2412.5	2395.8	2373.1	2342.2	2301.6	2247.0	2154.4	2059.2
135.0	2408.8	2384.0	2348.1	2282.7	2215.0	2137.4	2044.0	1944.6	1858.4	1756.5
180.0	2408.8	2384.0	2348.1	2282.7	2215.0	2137.4	2044.0	1944.6	1858.4	1756.5
225.0	2408.8	2380.5	2341.5	2288.1	2219.1	2142.2	2056.2	1960.3	1861.5	1753.7
270.0	2408.8	2380.5	2341.5	2288.1	2219.1	2142.2	2056.2	1960.3	1861.5	1753.7
315.0	2408.8	2430.0	2428.0	2421.9	2408.6	2377.9	2329.8	2261.1	2181.9	2096.9
360.0	2408.8	2430.0	2428.0	2421.9	2408.6	2377.9	2329.8	2261.1	2181.9	2096.9

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2025.0	1931.6	1821.4	1719.5	1613.6	1493.3	1398.8	1281.6	1174.2	1066.4
45.0	1972.1	1883.5	1780.6	1690.3	1593.1	1477.0	1367.0	1260.7	1156.2	1069.0
90.0	1972.1	1883.5	1780.6	1690.3	1593.1	1477.0	1367.0	1260.7	1156.2	1069.0
135.0	1642.8	1527.5	1412.1	1294.9	1197.7	1086.0	990.2	905.7	830.9	786.3
180.0	1642.8	1527.5	1412.1	1294.9	1197.7	1086.0	990.2	905.7	830.9	786.3
225.0	1640.2	1543.6	1421.9	1303.6	1188.0	1076.0	978.6	906.6	832.7	775.6
270.0	1640.2	1543.6	1421.9	1303.6	1188.0	1076.0	978.6	906.6	832.7	775.6
315.0	2025.0	1931.6	1821.4	1719.5	1613.6	1493.3	1398.8	1281.6	1174.2	1066.4
360.0	2025.0	1931.6	1821.4	1719.5	1613.6	1493.3	1398.8	1281.6	1174.2	1066.4

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	976.0	901.1	829.0	769.5	717.0	677.2	640.4	613.8	582.2	551.7
45.0	976.7	895.2	824.0	764.5	720.5	682.8	645.2	613.6	580.0	553.7
90.0	976.7	895.2	824.0	764.5	720.5	682.8	645.2	613.6	580.0	553.7
135.0	736.0	694.6	656.7	621.9	588.1	561.3	545.2	503.4	460.3	415.6
180.0	736.0	694.6	656.7	621.9	588.1	561.3	545.2	503.4	460.3	415.6
225.0	722.5	680.9	642.6	613.2	586.1	556.3	536.3	490.1	455.5	403.2
270.0	722.5	680.9	642.6	613.2	586.1	556.3	536.3	490.1	455.5	403.2
315.0	976.0	901.1	829.0	769.5	717.0	677.2	640.4	613.8	582.2	551.7
360.0	976.0	901.1	829.0	769.5	717.0	677.2	640.4	613.8	582.2	551.7

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	532.5	489.7	444.1	404.7	338.7	274.4	206.1	143.3	98.3	54.0
45.0	534.9	498.1	450.6	402.3	340.7	279.0	219.3	158.3	102.8	59.3
90.0	534.9	498.1	450.6	402.3	340.7	279.0	219.3	158.3	102.8	59.3
135.0	353.5	295.6	224.6	164.9	106.9	61.2	40.7	32.3	31.8	25.1
180.0	353.5	295.6	224.6	164.9	106.9	61.2	40.7	32.3	31.8	25.1
225.0	342.2	276.4	209.3	147.9	97.8	55.3	31.8	27.9	23.1	23.1
270.0	342.2	276.4	209.3	147.9	97.8	55.3	31.8	27.9	23.1	23.1
315.0	532.5	489.7	444.1	404.7	338.7	274.4	206.1	143.3	98.3	54.0
360.0	532.5	489.7	444.1	404.7	338.7	274.4	206.1	143.3	98.3	54.0

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	33.3	24.8	21.6	19.4	18.0	16.6	15.2	17.4	16.1	15.2
45.0	39.9	33.7	30.7	27.0	25.1	22.9	19.0	17.6	17.0	15.9
90.0	39.9	33.7	30.7	27.0	25.1	22.9	19.0	17.6	17.0	15.9
135.0	23.5	21.1	20.2	19.0	20.2	17.0	18.3	14.8	14.0	16.1
180.0	23.5	21.1	20.2	19.0	20.2	17.0	18.3	14.8	14.0	16.1
225.0	19.2	17.6	16.6	15.5	17.0	16.4	15.5	12.4	12.0	13.5
270.0	19.2	17.6	16.6	15.5	17.0	16.4	15.5	12.4	12.0	13.5
315.0	33.3	24.8	21.6	19.4	18.0	16.6	15.2	17.4	16.1	15.2
360.0	33.3	24.8	21.6	19.4	18.0	16.6	15.2	17.4	16.1	15.2

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	14.8	14.3	13.7	12.8	12.2	11.8	9.4	8.5	8.5	8.1
45.0	14.6	16.4	15.9	13.1	14.6	11.8	11.1	10.2	9.6	10.6
90.0	14.6	16.4	15.9	13.1	14.6	11.8	11.1	10.2	9.6	10.6
135.0	15.3	14.6	13.3	11.1	13.1	9.8	9.4	8.7	8.3	7.8
180.0	15.3	14.6	13.3	11.1	13.1	9.8	9.4	8.7	8.3	7.8
225.0	12.8	12.0	9.8	8.9	8.6	8.3	9.4	8.1	6.7	7.7
270.0	12.8	12.0	9.8	8.9	8.6	8.3	9.4	8.1	6.7	7.7
315.0	14.8	14.3	13.7	12.8	12.2	11.8	9.4	8.5	8.5	8.1
360.0	14.8	14.3	13.7	12.8	12.2	11.8	9.4	8.5	8.5	8.1

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	7.6	7.2	6.7	6.5	6.2	5.9	6.5	7.2	7.2	6.9
45.0	11.6	11.1	8.3	7.2	7.1	7.0	6.7	6.5	6.1	5.5
90.0	11.6	11.1	8.3	7.2	7.1	7.0	6.7	6.5	6.1	5.5
135.0	8.5	9.2	8.7	8.3	7.9	7.6	7.2	6.7	6.5	6.3
180.0	8.5	9.2	8.7	8.3	7.9	7.6	7.2	6.7	6.5	6.3
225.0	8.7	8.3	7.9	7.6	7.0	5.0	4.8	4.5	4.7	4.8
270.0	8.7	8.3	7.9	7.6	7.0	5.0	4.8	4.5	4.7	4.8
315.0	7.6	7.2	6.7	6.5	6.2	5.9	6.5	7.2	7.2	6.9
360.0	7.6	7.2	6.7	6.5	6.2	5.9	6.5	7.2	7.2	6.9

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	6.5	6.1	5.7	4.3	3.7	3.7	3.3	3.5	3.3	2.8
45.0	5.0	4.5	4.3	4.1	3.9	3.9	3.9	4.8	5.7	3.5
90.0	5.0	4.5	4.3	4.1	3.9	3.9	3.9	4.8	5.7	3.5
135.0	6.3	4.1	4.1	3.5	3.7	4.3	5.0	5.0	5.0	5.0
180.0	6.3	4.1	4.1	3.5	3.7	4.3	5.0	5.0	5.0	5.0
225.0	3.7	3.9	5.5	5.2	5.0	4.5	3.7	2.8	2.7	2.6
270.0	3.7	3.9	5.5	5.2	5.0	4.5	3.7	2.8	2.7	2.6
315.0	6.5	6.1	5.7	4.3	3.7	3.7	3.3	3.5	3.3	2.8
360.0	6.5	6.1	5.7	4.3	3.7	3.7	3.3	3.5	3.3	2.8

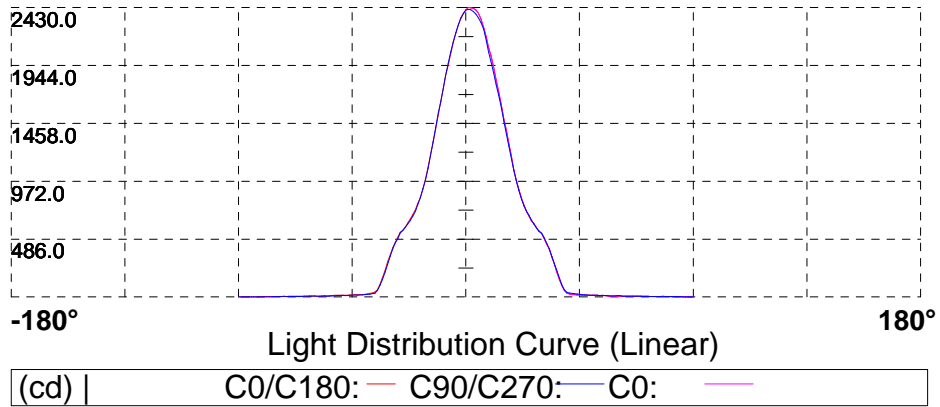
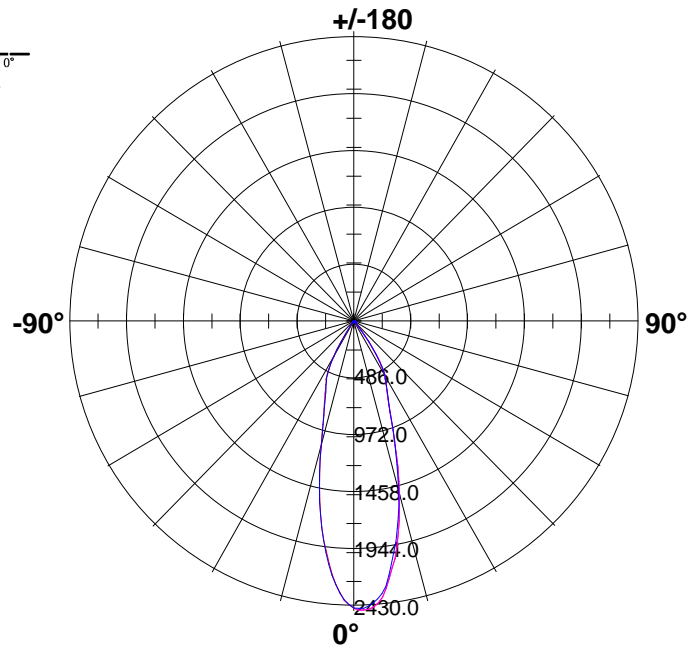
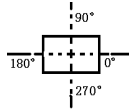
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.8	3.2	3.6	2.8	2.5	2.2	2.2	2.2	2.2	1.4
45.0	3.3	3.7	4.4	5.2	5.2	3.1	2.8	2.1	1.3	1.3
90.0	3.3	3.7	4.4	5.2	5.2	3.1	2.8	2.1	1.3	1.3
135.0	4.5	3.3	2.8	2.7	2.6	2.0	1.9	1.7	0.0	0.0
180.0	4.5	3.3	2.8	2.7	2.6	2.0	1.9	1.7	0.0	0.0
225.0	2.6	2.6	2.6	2.6	2.4	1.9	1.3	1.3	1.1	0.0
270.0	2.6	2.6	2.6	2.6	2.4	1.9	1.3	1.3	1.1	0.0
315.0	2.8	3.2	3.6	2.8	2.5	2.2	2.2	2.2	2.2	1.4
360.0	2.8	3.2	3.6	2.8	2.5	2.2	2.2	2.2	2.2	1.4

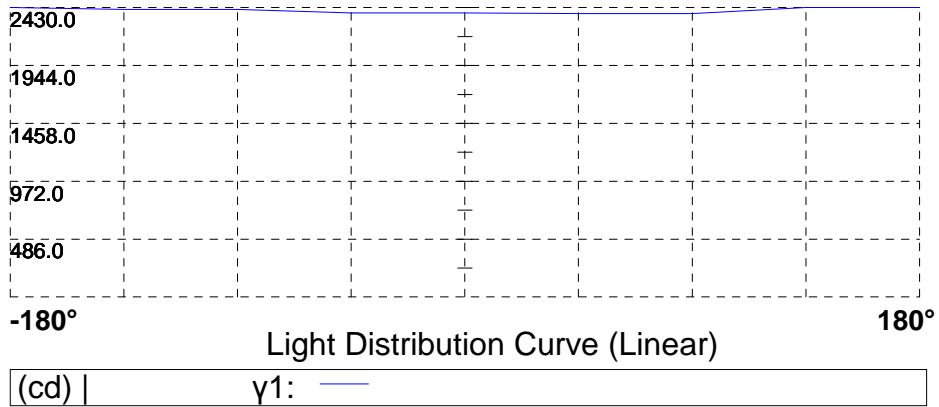
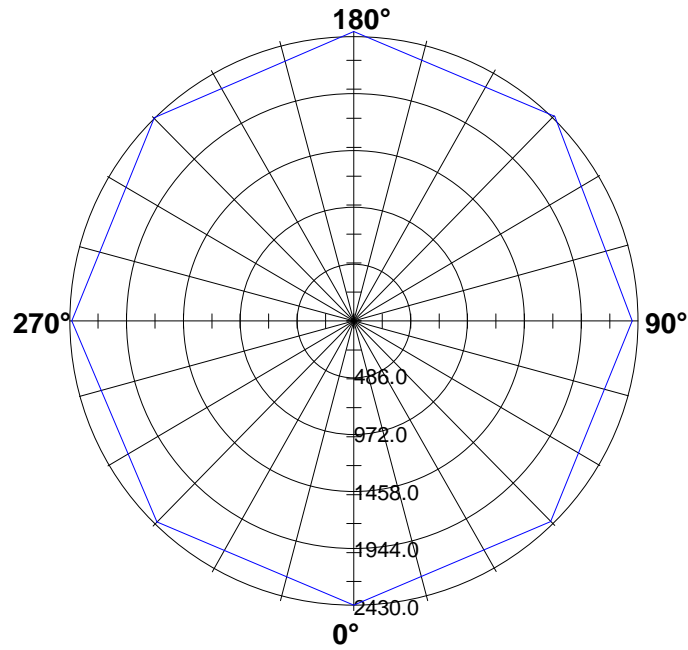
C\G	90.0
0.0	0.7
45.0	1.3
90.0	1.3
135.0	1.3
180.0	1.3
225.0	0.0
270.0	0.0
315.0	0.7
360.0	0.7

Light Distribution Curve [Unit: cd]

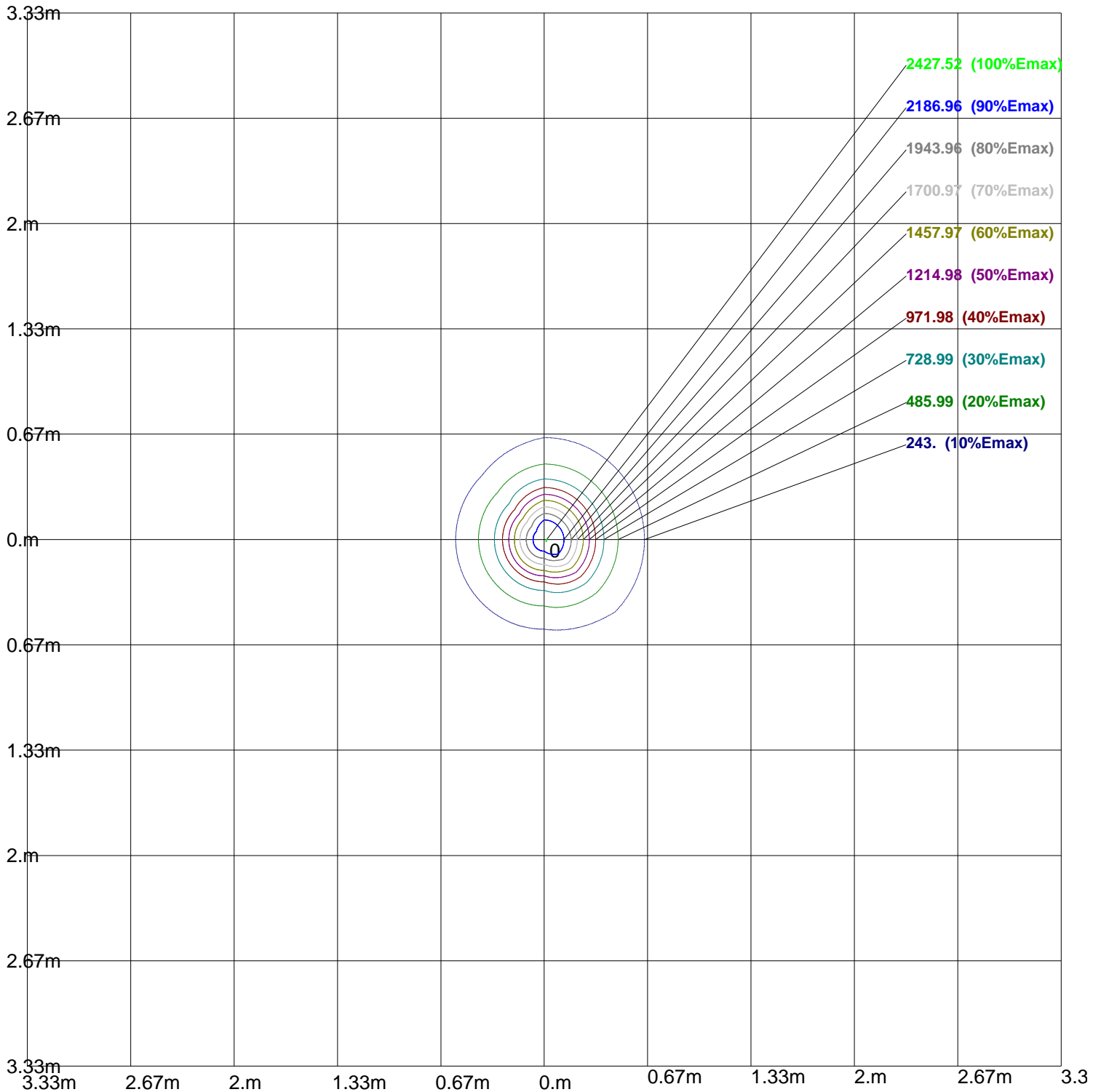
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 2429.96lx

Luminance Limiting Curve

Diameter: 95mm

Length: mm

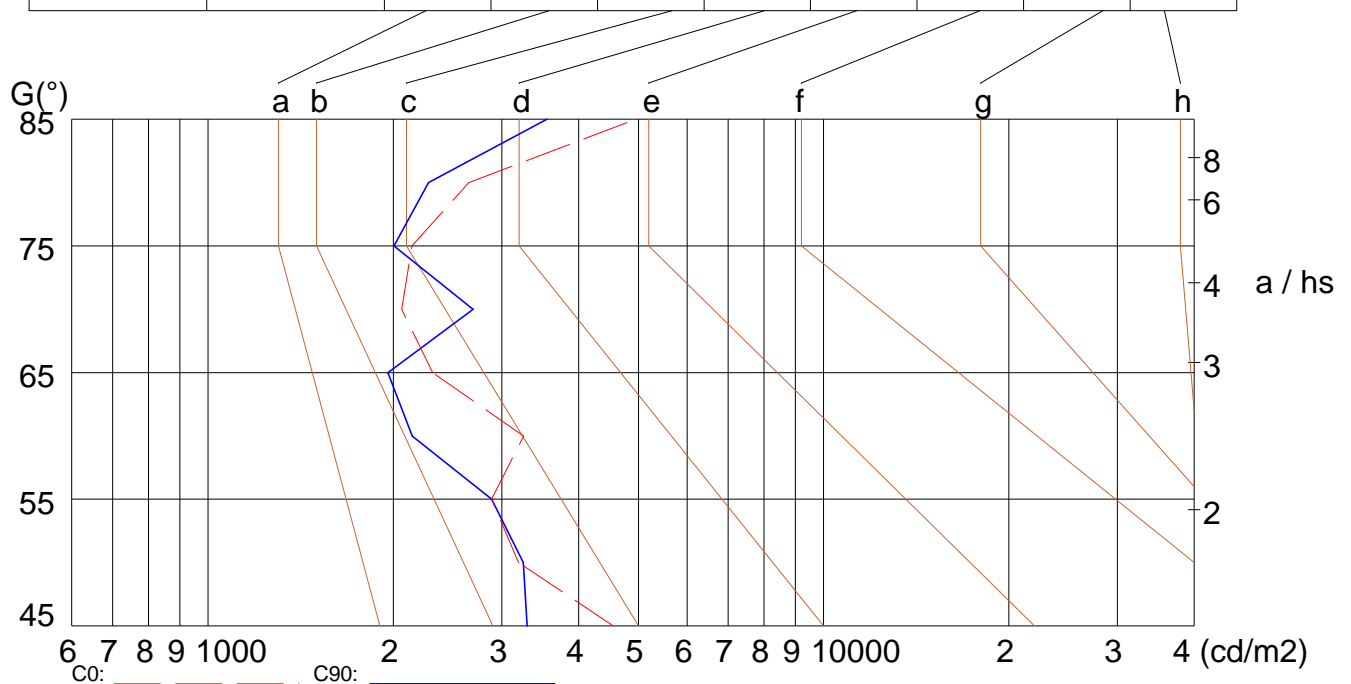
Width: 95mm

Height: 102mm

(cd/m²)

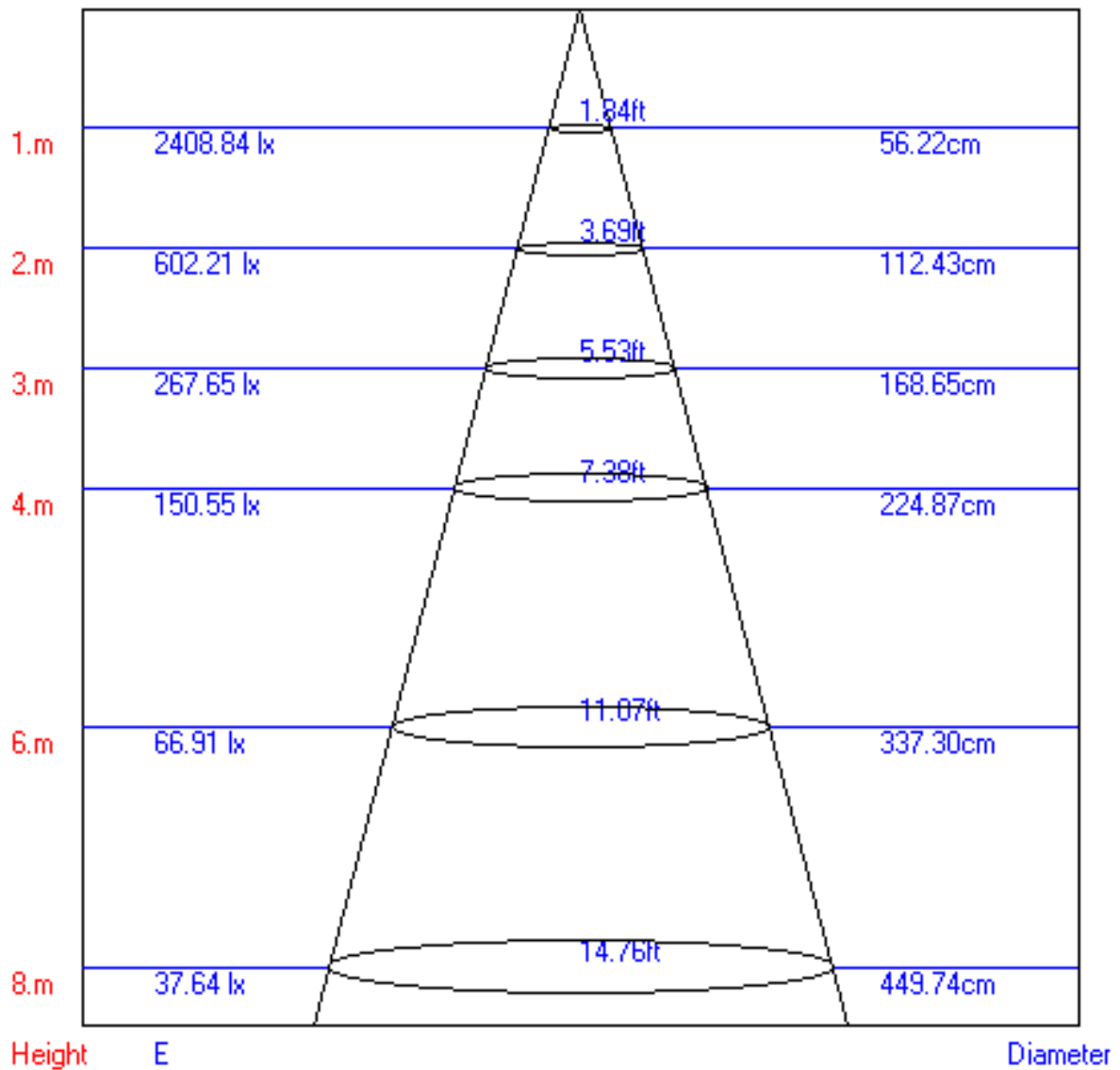
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4552	3193	2887	3255	2317	2063	2142	2654	4957
C90	3299	3249	2887	2146	1959	2695	2003	2281	3552

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)

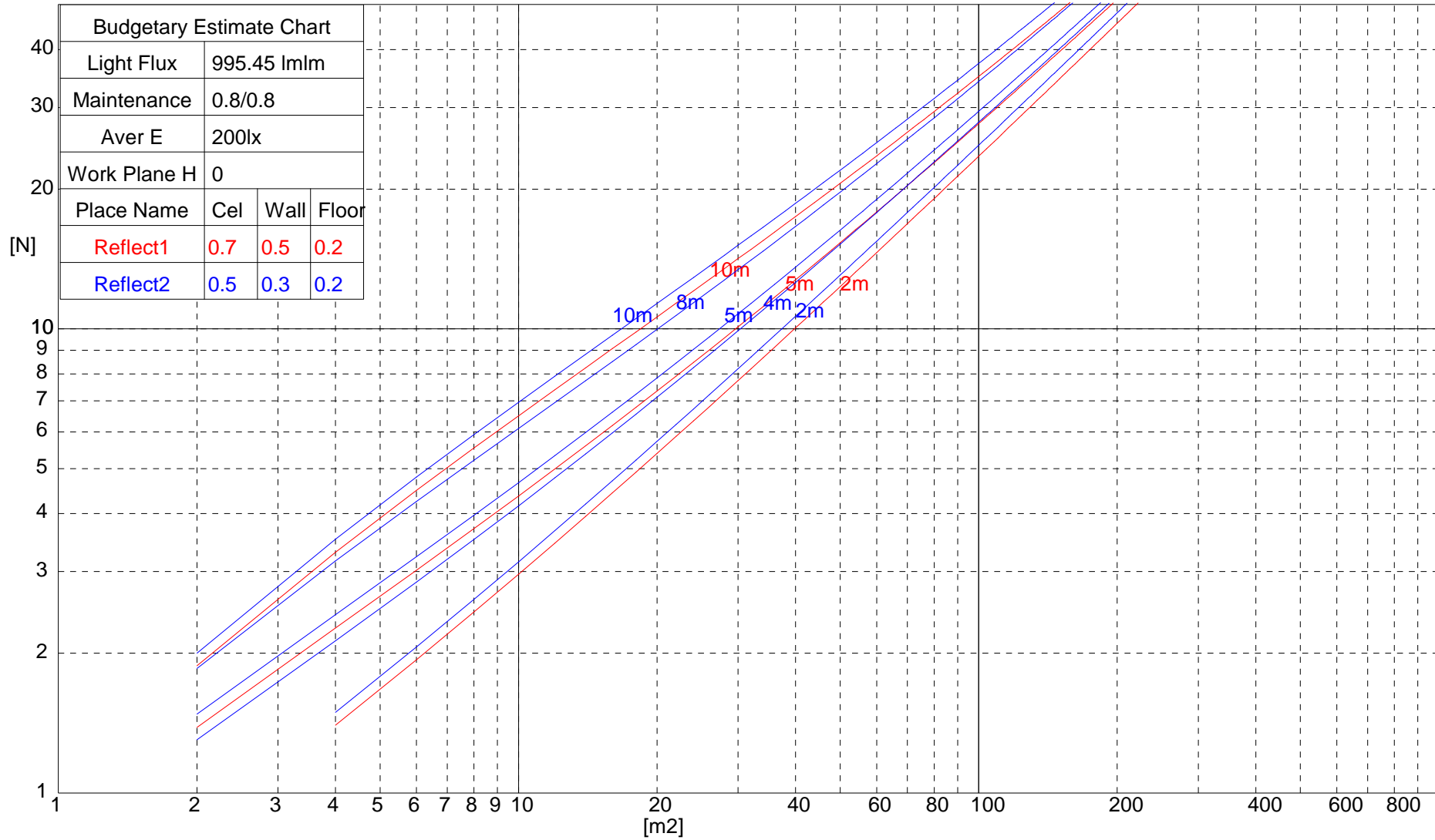
Lux-Distance Curve



Beam Angle:31.40°

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
RRC	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	1.15	1.14	1.14	1.13	1.12	1.12	1.09	1.08	1.07	1.03	1.02	1.01	0.96	0.95	0.94	0.89
2	1.09	1.08	1.07	1.07	1.06	1.05	1.03	1.02	1.00	0.98	0.97	0.95	0.92	0.90	0.88	0.84
3	1.03	1.02	1.01	1.02	1.00	0.99	0.98	0.96	0.94	0.94	0.92	0.90	0.89	0.86	0.84	0.79
4	0.98	0.97	0.96	0.97	0.95	0.94	0.94	0.91	0.89	0.90	0.87	0.85	0.85	0.82	0.79	0.75
5	0.93	0.92	0.91	0.92	0.90	0.89	0.89	0.87	0.85	0.86	0.83	0.80	0.82	0.78	0.75	0.72
6	0.89	0.88	0.87	0.88	0.86	0.85	0.85	0.82	0.81	0.82	0.79	0.76	0.79	0.75	0.72	0.68
7	0.85	0.83	0.83	0.84	0.82	0.81	0.81	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.69	0.65
8	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.69	0.65	0.62
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57



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	13.1	14.1	13.4	14.1	14.5	13.0	14.1	13.2	14.1	14.5
	3H	14.4	15.4	14.8	15.7	15.9	14.4	15.4	14.6	15.9	16.0
	4H	15.0	16.1	15.4	16.5	16.6	15.1	16.0	15.3	16.5	16.7
	6H	15.5	16.4	15.9	16.8	16.9	15.4	16.3	15.8	16.7	17.0
	8H	15.9	16.8	16.1	16.8	17.1	15.8	16.6	15.9	16.9	17.2
4H	12H	16.0	16.7	16.1	17.1	17.3	15.8	16.5	16.0	17.0	17.4
	2H	13.9	14.8	14.1	15.0	15.2	13.9	14.7	14.0	14.9	15.1
	3H	15.6	16.3	15.8	16.3	16.6	15.4	16.2	15.5	16.3	16.7
	4H	16.2	16.8	16.4	16.9	17.4	16.0	16.7	16.3	17.1	17.3
	6H	16.7	17.3	17.1	17.5	17.8	16.7	17.2	16.9	17.5	17.8
8H	8H	16.8	17.5	17.3	17.7	18.1	16.9	17.4	17.1	17.7	18.0
	12H	17.1	17.6	17.5	18.0	18.1	17.1	17.5	17.4	17.9	18.2
	4H	16.5	17.0	16.7	17.2	17.7	16.3	16.9	16.6	17.2	17.6
	6H	17.2	17.6	17.5	18.0	18.3	17.0	17.6	17.5	17.9	18.3
	8H	17.5	18.0	17.9	18.2	18.5	17.4	17.7	17.7	18.2	18.6
12H	12H	17.7	18.2	18.1	18.4	18.9	17.7	18.1	18.0	18.3	18.7
	4H	16.5	17.0	16.8	17.3	17.7	16.3	16.9	16.6	17.4	17.7
	6H	17.4	17.7	17.6	18.0	18.3	17.2	17.6	17.6	17.9	18.3
	8H	17.6	18.1	18.0	18.4	18.7	17.6	18.0	17.9	18.3	18.8