

Luminaire Property

Luminaire: RH-CL2603 20W 6500K

Report NO.:

Voltage: 221.7 V

Test NO.:

Current: 0.132 A

Lamp:

Power: 21.6 W

Sum Lumens: 1762.67 lm

Power Factor: 0.738

Number of Lamps: 1

Ballast Type:

Diameter: 140mm

Width: 140mm

Length: 83mm

Height: mm

Photometric Type: Type C

Remark:

Photometric Results

Lumens: 1762.67 lm

Angle of maximum intensity: C:135.0 G:1.0

Effective luminous flux: 1697.73 lm

Half Peak Side Angle(50%): Left: -24.4 Right:24.8

Efficiency: 81.6051 lm/W

Light Out Rate(LOR) : 100.00%

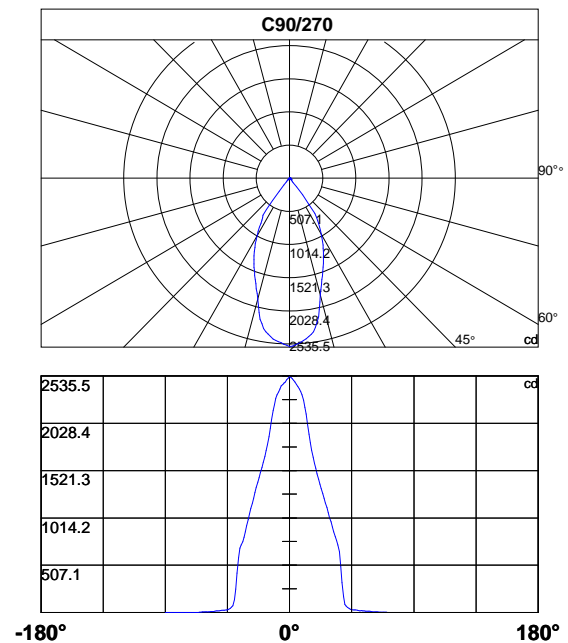
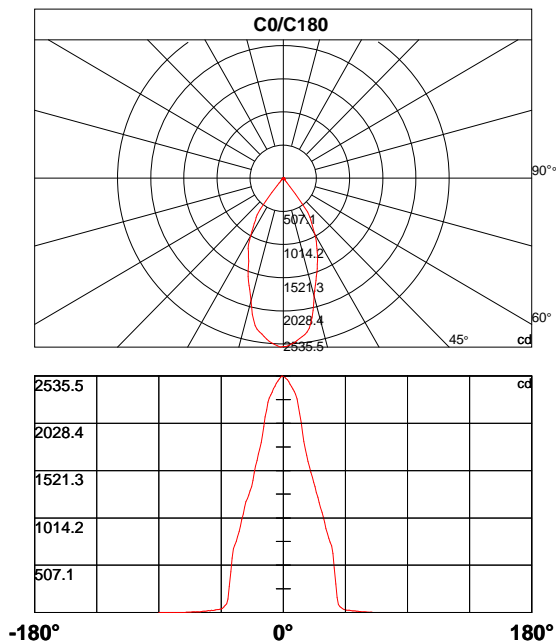
Central Intensity: 2528.331cd

Up Flux Rate: 0.0%

Maximum Intensity: 2535.472cd

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -38.3 Right:39.2



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	2528.3	2526.0	2508.9	2494.2	2473.4	2446.7	2419.1	2394.6	2370.8	2339.0
45.0	2528.3	2521.9	2505.1	2487.2	2469.5	2445.2	2422.6	2396.9	2368.1	2332.8
90.0	2528.3	2521.9	2505.1	2487.2	2469.5	2445.2	2422.6	2396.9	2368.1	2332.8
135.0	2528.3	2535.5	2519.4	2501.3	2482.8	2458.6	2428.8	2398.0	2360.9	2334.8
180.0	2528.3	2535.5	2519.4	2501.3	2482.8	2458.6	2428.8	2398.0	2360.9	2334.8
225.0	2528.3	2511.0	2493.3	2470.9	2460.6	2445.4	2429.4	2395.7	2363.6	2333.4
270.0	2528.3	2511.0	2493.3	2470.9	2460.6	2445.4	2429.4	2395.7	2363.6	2333.4
315.0	2528.3	2526.0	2508.9	2494.2	2473.4	2446.7	2419.1	2394.6	2370.8	2339.0
360.0	2528.3	2526.0	2508.9	2494.2	2473.4	2446.7	2419.1	2394.6	2370.8	2339.0

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2288.2	2210.9	2130.9	2034.7	1927.4	1831.5	1747.0	1684.1	1618.5	1557.4
45.0	2274.8	2199.4	2126.2	2022.8	1913.1	1822.8	1739.1	1665.4	1600.2	1547.4
90.0	2274.8	2199.4	2126.2	2022.8	1913.1	1822.8	1739.1	1665.4	1600.2	1547.4
135.0	2300.1	2254.7	2173.7	2097.9	1994.4	1904.0	1821.8	1749.8	1697.0	1631.0
180.0	2300.1	2254.7	2173.7	2097.9	1994.4	1904.0	1821.8	1749.8	1697.0	1631.0
225.0	2295.1	2227.4	2165.4	2070.3	1974.1	1883.3	1797.9	1736.1	1669.5	1610.5
270.0	2295.1	2227.4	2165.4	2070.3	1974.1	1883.3	1797.9	1736.1	1669.5	1610.5
315.0	2288.2	2210.9	2130.9	2034.7	1927.4	1831.5	1747.0	1684.1	1618.5	1557.4
360.0	2288.2	2210.9	2130.9	2034.7	1927.4	1831.5	1747.0	1684.1	1618.5	1557.4

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1503.8	1450.3	1394.5	1347.6	1287.6	1233.7	1177.8	1127.3	1073.0	1023.2
45.0	1487.2	1428.8	1377.0	1326.4	1274.2	1223.4	1171.6	1126.4	1072.6	1016.0
90.0	1487.2	1428.8	1377.0	1326.4	1274.2	1223.4	1171.6	1126.4	1072.6	1016.0
135.0	1569.2	1496.4	1415.6	1350.0	1304.0	1260.8	1221.2	1186.9	1129.7	1056.5
180.0	1569.2	1496.4	1415.6	1350.0	1304.0	1260.8	1221.2	1186.9	1129.7	1056.5
225.0	1554.2	1498.0	1446.1	1399.0	1341.0	1288.2	1226.7	1169.8	1115.3	1058.2
270.0	1554.2	1498.0	1446.1	1399.0	1341.0	1288.2	1226.7	1169.8	1115.3	1058.2
315.0	1503.8	1450.3	1394.5	1347.6	1287.6	1233.7	1177.8	1127.3	1073.0	1023.2
360.0	1503.8	1450.3	1394.5	1347.6	1287.6	1233.7	1177.8	1127.3	1073.0	1023.2

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	966.1	899.9	842.8	797.1	756.2	715.3	630.6	475.2	303.6	159.3
45.0	971.0	918.4	865.4	813.2	769.8	723.5	652.2	497.0	319.8	167.9
90.0	971.0	918.4	865.4	813.2	769.8	723.5	652.2	497.0	319.8	167.9
135.0	994.8	927.9	867.0	814.2	761.8	720.7	683.0	581.9	437.6	277.9
180.0	994.8	927.9	867.0	814.2	761.8	720.7	683.0	581.9	437.6	277.9
225.0	995.0	930.9	866.4	804.7	758.2	723.5	690.3	588.9	423.2	251.6
270.0	995.0	930.9	866.4	804.7	758.2	723.5	690.3	588.9	423.2	251.6
315.0	966.1	899.9	842.8	797.1	756.2	715.3	630.6	475.2	303.6	159.3
360.0	966.1	899.9	842.8	797.1	756.2	715.3	630.6	475.2	303.6	159.3

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	85.9	62.9	50.2	39.3	29.8	29.2	24.6	25.1	23.4	21.6
45.0	85.5	69.3	54.2	43.4	35.6	31.2	28.0	28.4	26.9	23.0
90.0	85.5	69.3	54.2	43.4	35.6	31.2	28.0	28.4	26.9	23.0
135.0	142.2	92.3	73.4	58.0	44.4	37.6	32.5	29.4	29.8	27.8
180.0	142.2	92.3	73.4	58.0	44.4	37.6	32.5	29.4	29.8	27.8
225.0	137.7	73.2	58.8	45.9	34.1	28.6	28.8	24.0	22.2	23.6
270.0	137.7	73.2	58.8	45.9	34.1	28.6	28.8	24.0	22.2	23.6
315.0	85.9	62.9	50.2	39.3	29.8	29.2	24.6	25.1	23.4	21.6
360.0	85.9	62.9	50.2	39.3	29.8	29.2	24.6	25.1	23.4	21.6

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	17.5	16.3	15.0	13.6	12.1	10.8	9.5	8.0	8.3	8.6
45.0	20.8	18.7	19.7	15.8	16.9	12.7	11.7	12.7	11.9	11.1
90.0	20.8	18.7	19.7	15.8	16.9	12.7	11.7	12.7	11.9	11.1
135.0	23.2	21.4	22.0	17.9	19.3	17.3	13.1	11.7	12.9	9.3
180.0	23.2	21.4	22.0	17.9	19.3	17.3	13.1	11.7	12.9	9.3
225.0	21.6	17.1	15.9	14.8	12.9	11.1	10.3	9.2	8.0	8.3
270.0	21.6	17.1	15.9	14.8	12.9	11.1	10.3	9.2	8.0	8.3
315.0	17.5	16.3	15.0	13.6	12.1	10.8	9.5	8.0	8.3	8.6
360.0	17.5	16.3	15.0	13.6	12.1	10.8	9.5	8.0	8.3	8.6

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	4.9	4.1	3.3	2.7	1.9	1.2	0.2	0.0	0.0	0.4
45.0	7.4	6.6	5.6	5.9	6.2	2.9	2.5	3.0	3.5	2.7
90.0	7.4	6.6	5.6	5.9	6.2	2.9	2.5	3.0	3.5	2.7
135.0	8.2	7.4	6.4	5.2	5.7	6.2	5.3	4.5	3.7	2.9
180.0	8.2	7.4	6.4	5.2	5.7	6.2	5.3	4.5	3.7	2.9
225.0	8.6	7.6	6.6	5.0	4.4	3.9	0.6	0.3	0.0	0.0
270.0	8.6	7.6	6.6	5.0	4.4	3.9	0.6	0.3	0.0	0.0
315.0	4.9	4.1	3.3	2.7	1.9	1.2	0.2	0.0	0.0	0.4
360.0	4.9	4.1	3.3	2.7	1.9	1.2	0.2	0.0	0.0	0.4

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	2.2	1.6	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0
180.0	2.2	1.6	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

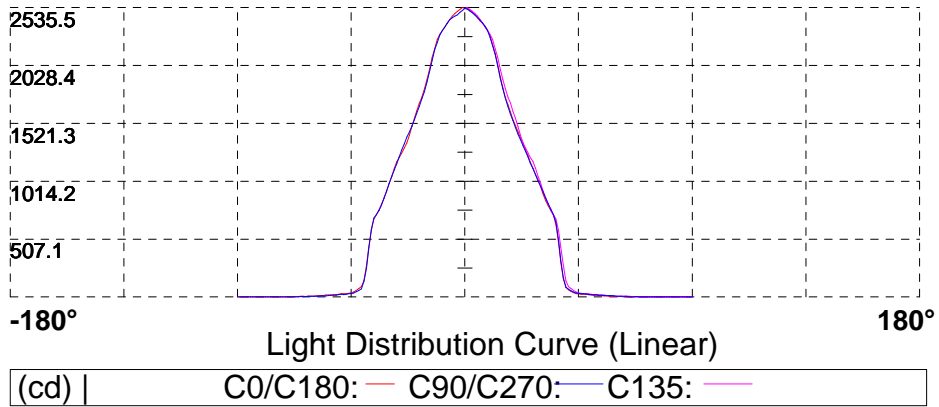
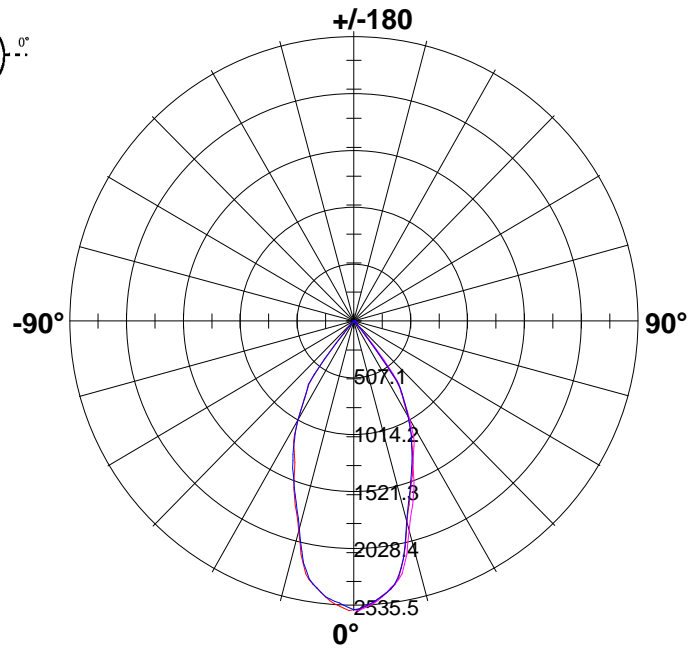
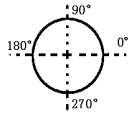
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

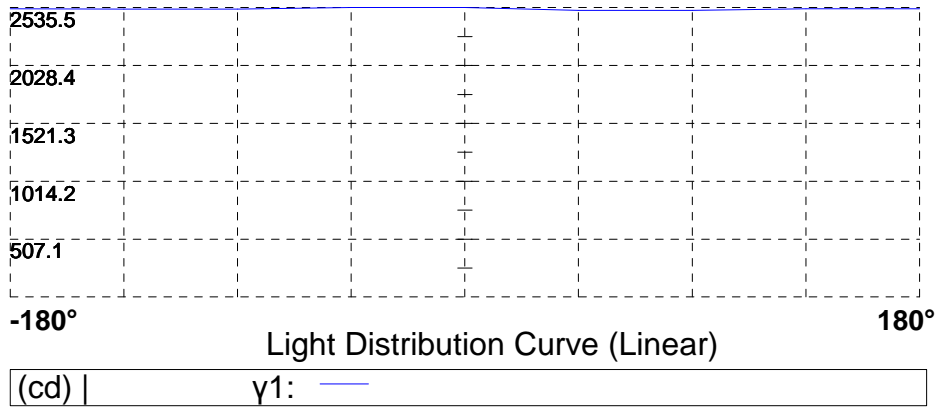
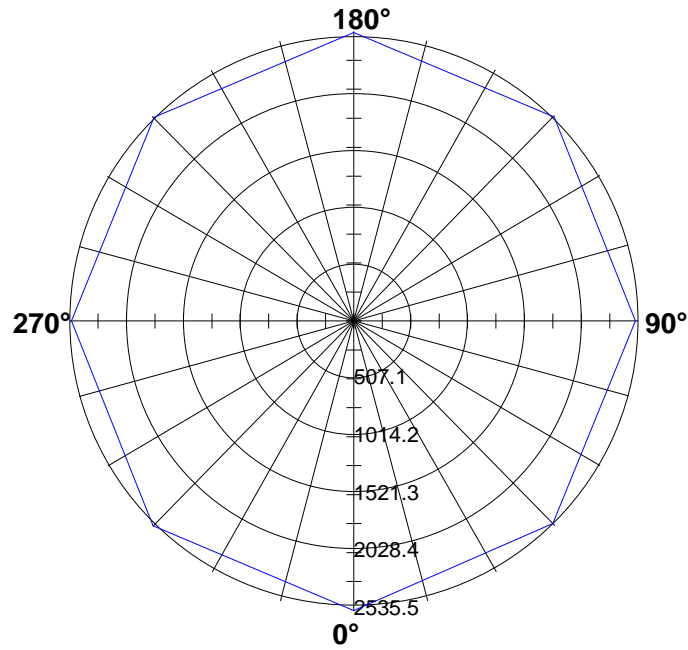
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

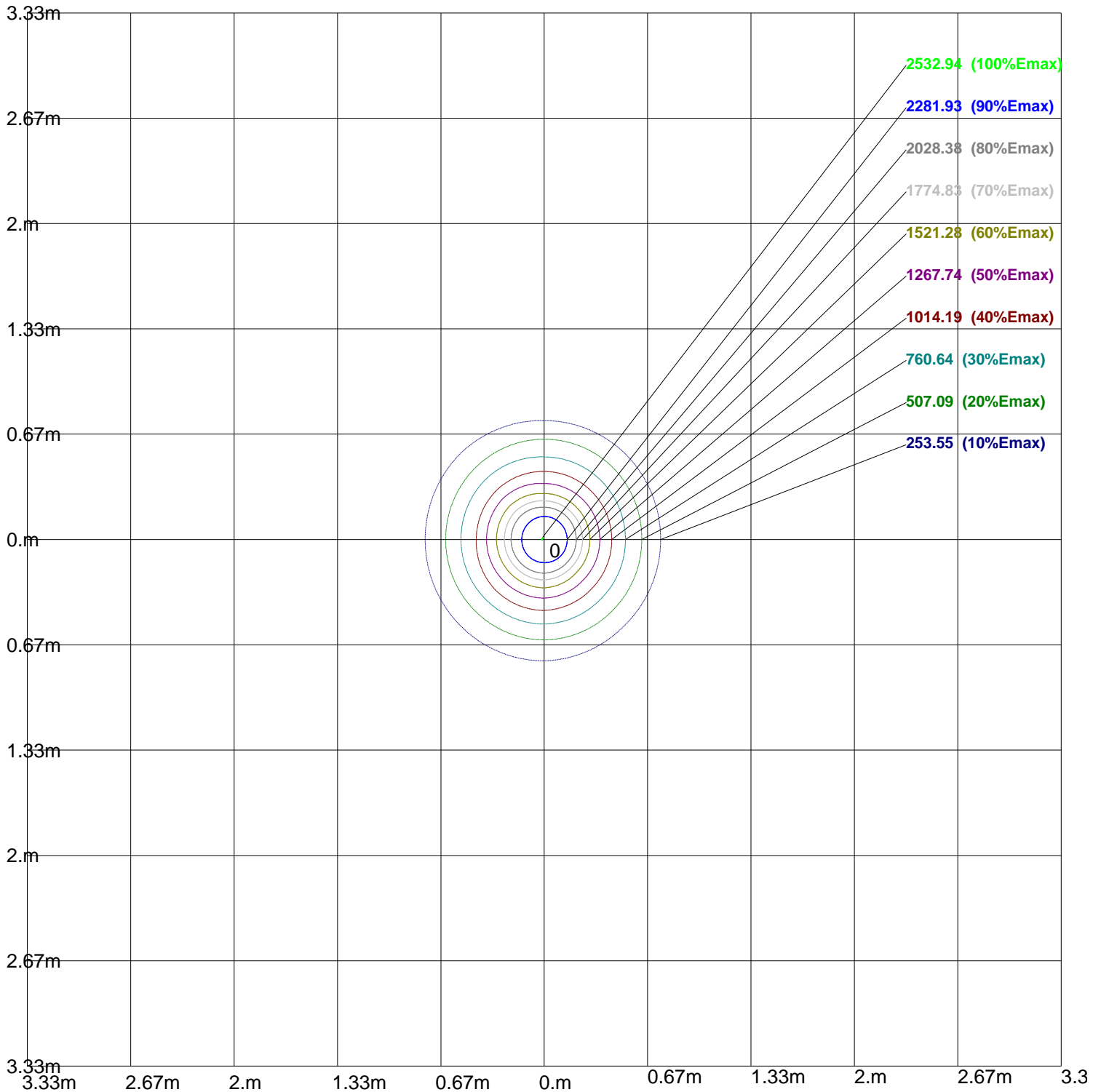
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 2535.47lx

Luminance Limiting Curve

Diameter: 140mm

Length: 83mm

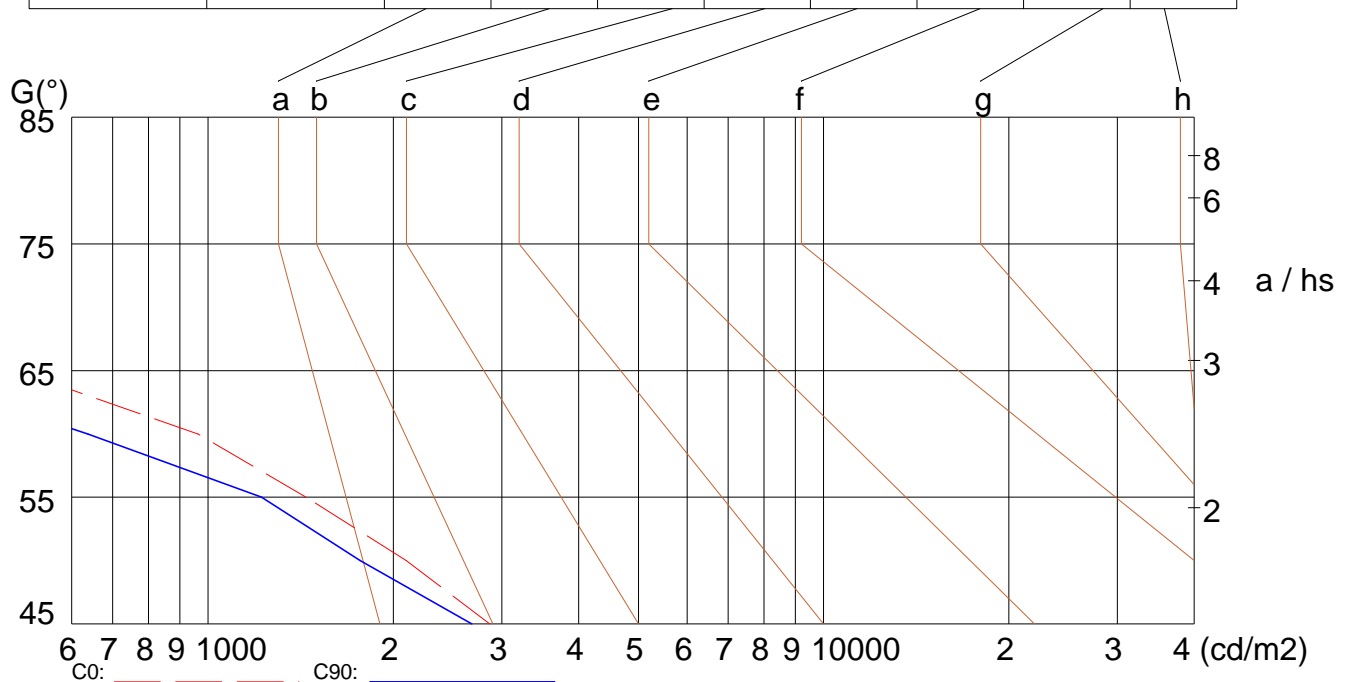
Width: 140mm

Height: mm

(cd/m²)

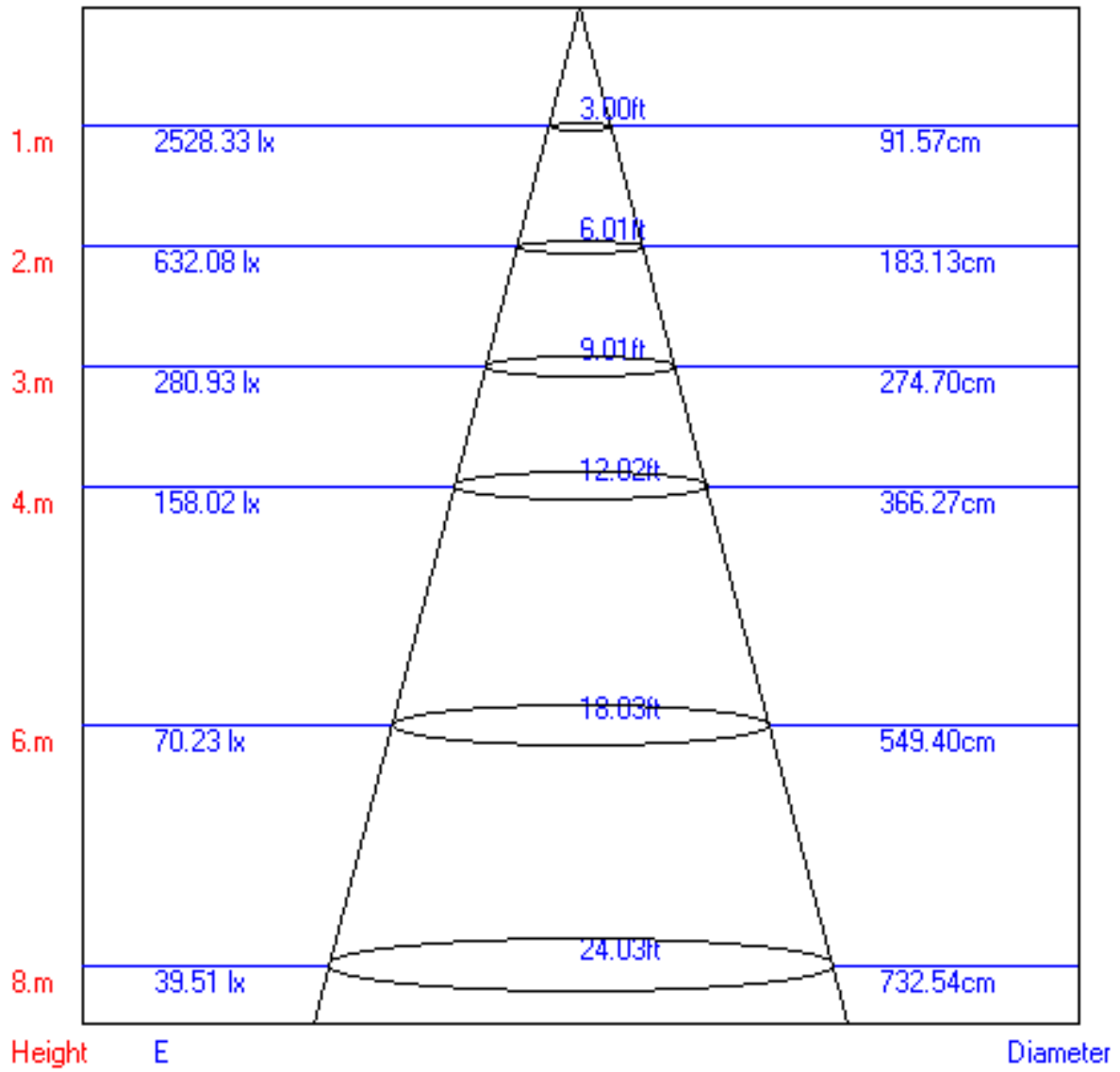
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	2868	2097	1441	963	440	349			
C90	2681	1766	1221	637	189	39			

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)

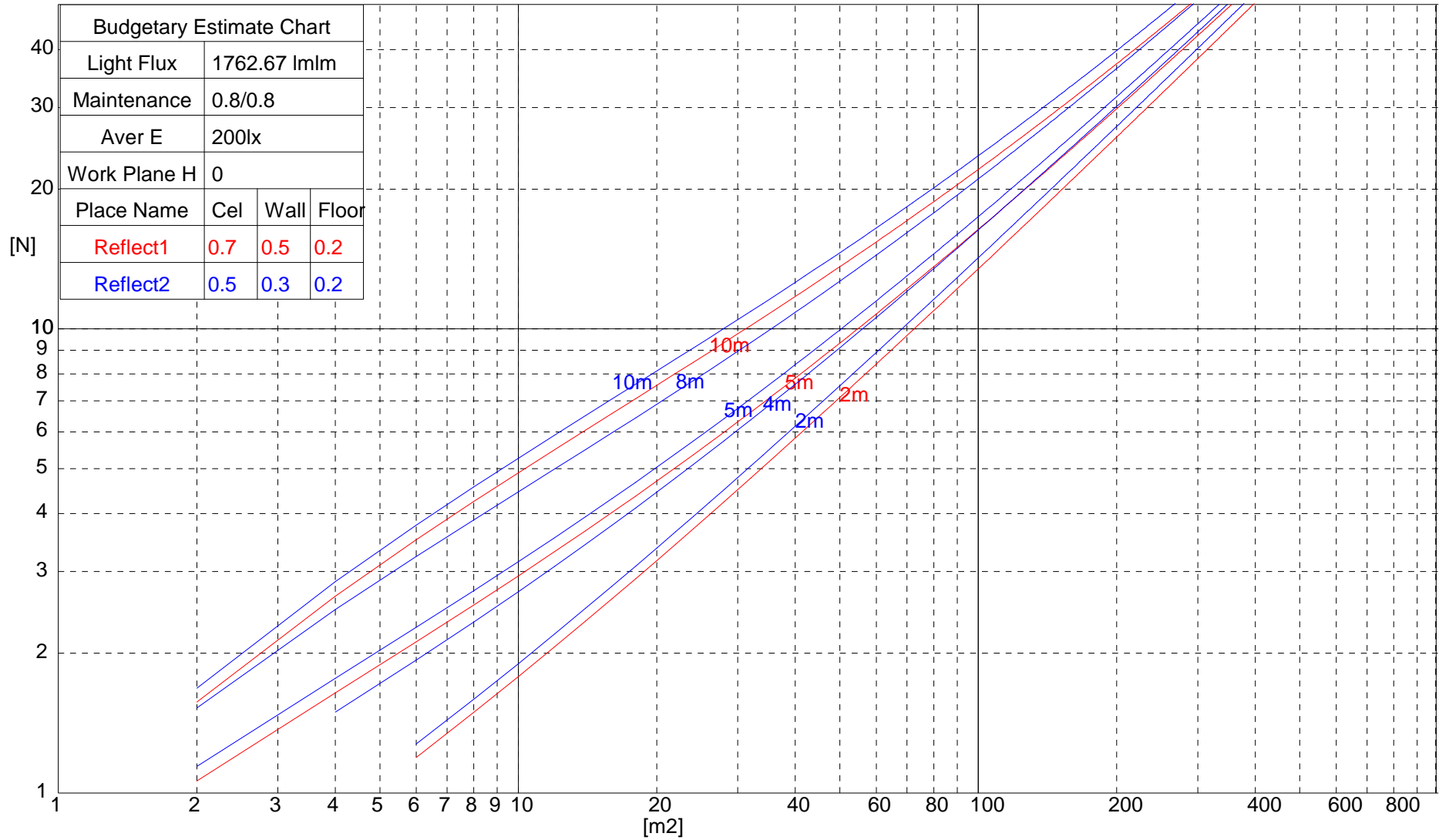
Lux-Distance Curve



Beam Angle:49.20°

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
RRCR	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	1.13	1.13	1.12	1.11	1.08	1.07	1.06	1.03	1.02	1.01	0.96	0.94	0.93	0.88
2	1.08	1.06	1.06	1.06	1.05	1.03	1.02	1.00	0.99	0.97	0.95	0.94	0.91	0.89	0.87	0.83
3	1.01	1.00	0.99	1.00	0.98	0.97	0.96	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.82	0.77
4	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.82	0.83	0.80	0.77	0.73
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
6	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
8	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.60	0.57
9	0.71	0.69	0.68	0.70	0.68	0.67	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.54
10	0.67	0.65	0.65	0.66	0.64	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51



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	14.2	13.3	14.1	14.6	13.0	14.1	13.1	14.2	14.7
	3H	14.5	15.5	14.8	15.9	15.9	14.3	15.4	14.6	15.8	15.9
	4H	15.0	16.1	15.4	16.6	16.7	15.0	16.0	15.4	16.4	16.7
	6H	15.7	16.4	16.0	16.8	16.8	15.5	16.3	15.8	16.8	16.9
	8H	15.8	16.7	16.0	16.9	17.1	15.7	16.6	15.9	16.8	17.1
4H	12H	15.9	16.7	16.1	17.0	17.3	15.7	16.6	16.1	17.0	17.4
	2H	13.9	14.7	14.1	14.9	15.1	13.9	14.7	14.0	15.0	15.0
	3H	15.5	16.4	15.7	16.3	16.7	15.4	16.2	15.6	16.3	16.6
	4H	16.2	16.8	16.4	16.9	17.3	16.0	16.8	16.3	16.9	17.4
	6H	16.7	17.3	17.0	17.5	17.9	16.6	17.3	16.8	17.5	17.8
8H	8H	16.8	17.5	17.2	17.7	18.0	16.9	17.3	17.1	17.7	18.0
	12H	17.1	17.6	17.4	17.8	18.2	17.0	17.5	17.3	17.8	18.1
	4H	16.4	17.0	16.7	17.2	17.6	16.4	17.0	16.6	17.3	17.6
	6H	17.1	17.6	17.5	17.9	18.3	17.0	17.5	17.4	17.9	18.2
	8H	17.6	17.9	17.9	18.2	18.5	17.4	17.8	17.9	18.1	18.7
12H	12H	17.8	18.1	18.1	18.5	18.7	17.5	18.0	18.0	18.5	18.8
	4H	16.5	17.1	16.9	17.4	17.6	16.4	16.9	16.8	17.2	17.6
	6H	17.3	17.8	17.7	17.9	18.4	17.2	17.7	17.6	17.9	18.3
	8H	17.6	18.0	18.1	18.2	18.7	17.5	17.9	18.0	18.3	18.7