

Report No.:91.08412 Tla Surface Mounted Test Time: 2024-10-07 19:42

Light

## Luminaire Property

Luminaire Category:

Luminaire Description:

Current: 0.045 A

Power Factor: 0.885

Voltage: 234.6 V

Power: 9.30 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 1076.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H59.1

Vertical Diffuse Angle(50%): V59.1

Luminaire Efficacy Rating (LER): 116

Max. Intensity: 1113.72 cd

Total Rated Lamp Lumens: 1076.3 lm

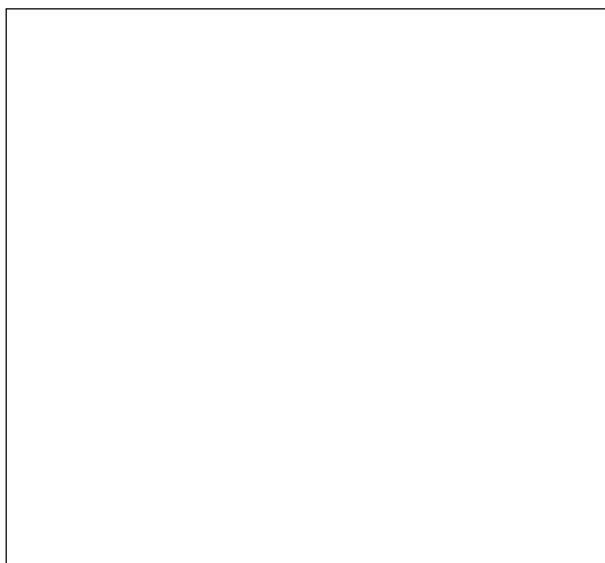
Efficiency: 100%

Upward Ratio: 0%

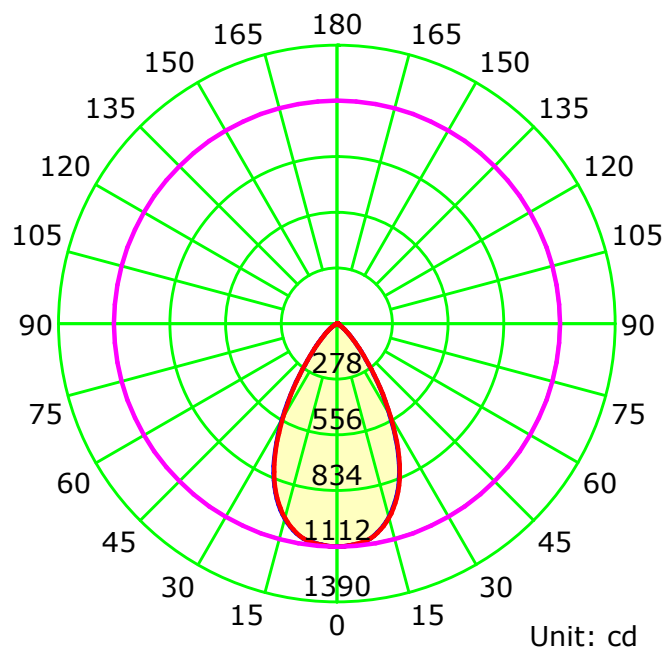
Central Intensity: 1113.72 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G0

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

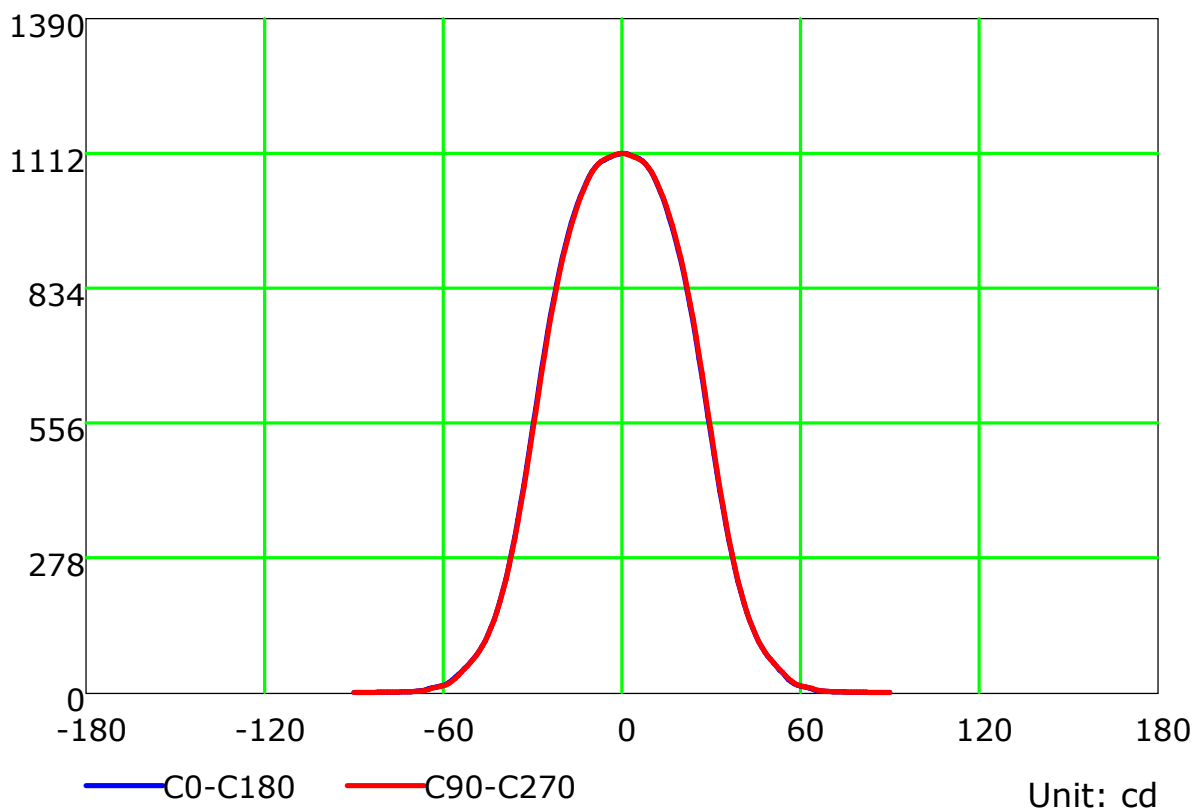
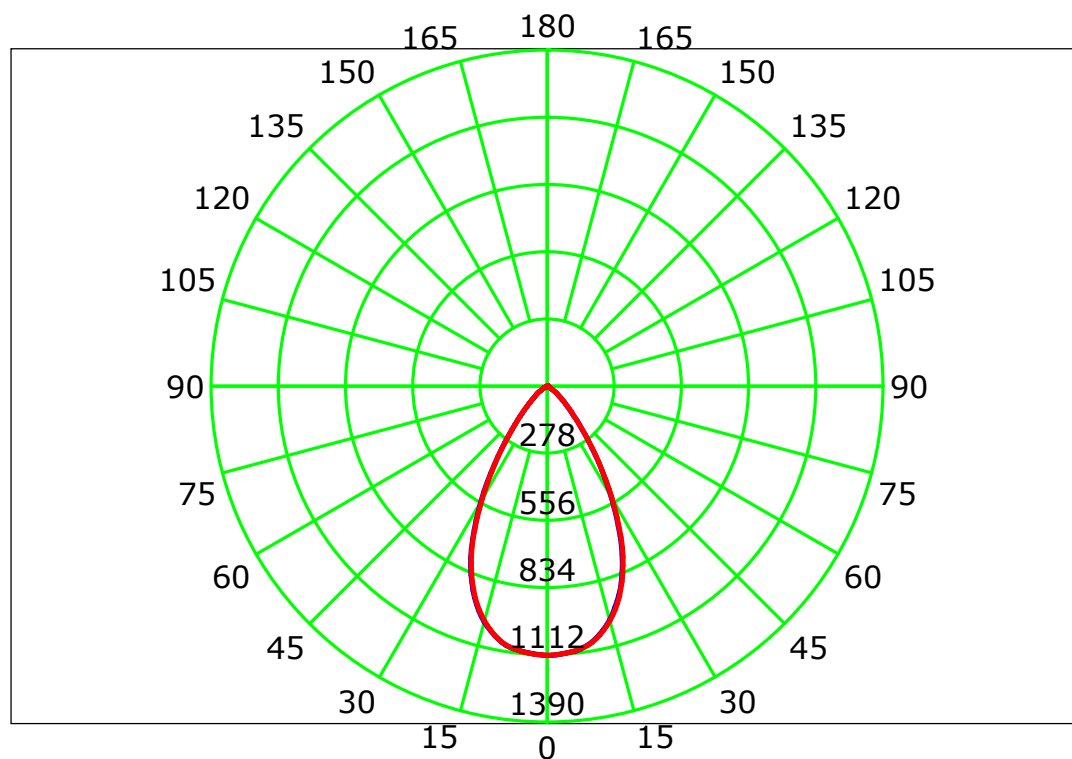
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

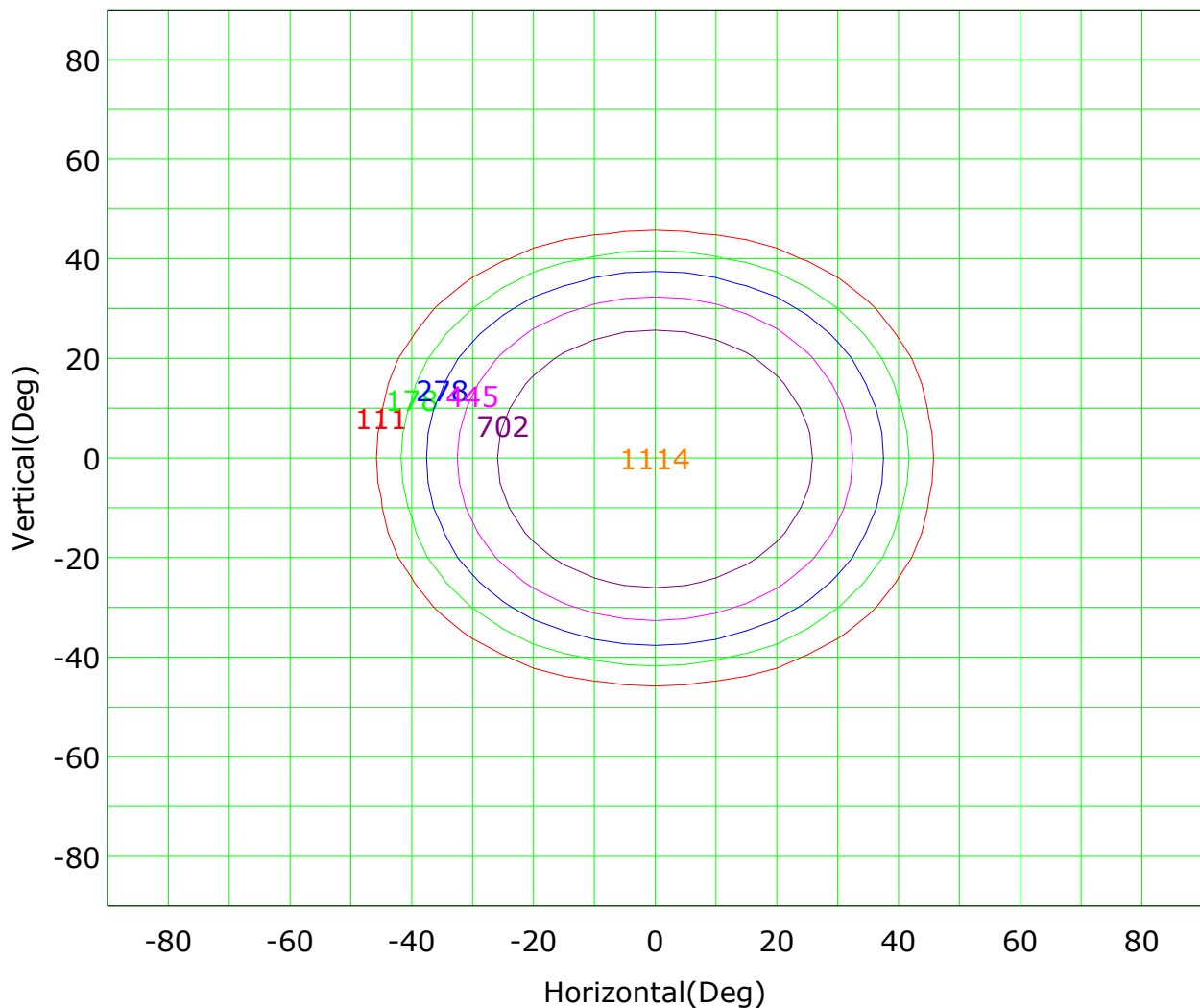
## Luminous Intensity Distribution Curve



C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Isocandela (rectangle)



Imax (100%): 1114 cd

|                |                 |
|----------------|-----------------|
| ( 10%): 111 cd | ( 16%): 178 cd  |
| ( 25%): 278 cd | ( 40%): 445 cd  |
| ( 63%): 702 cd | (100%): 1114 cd |

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

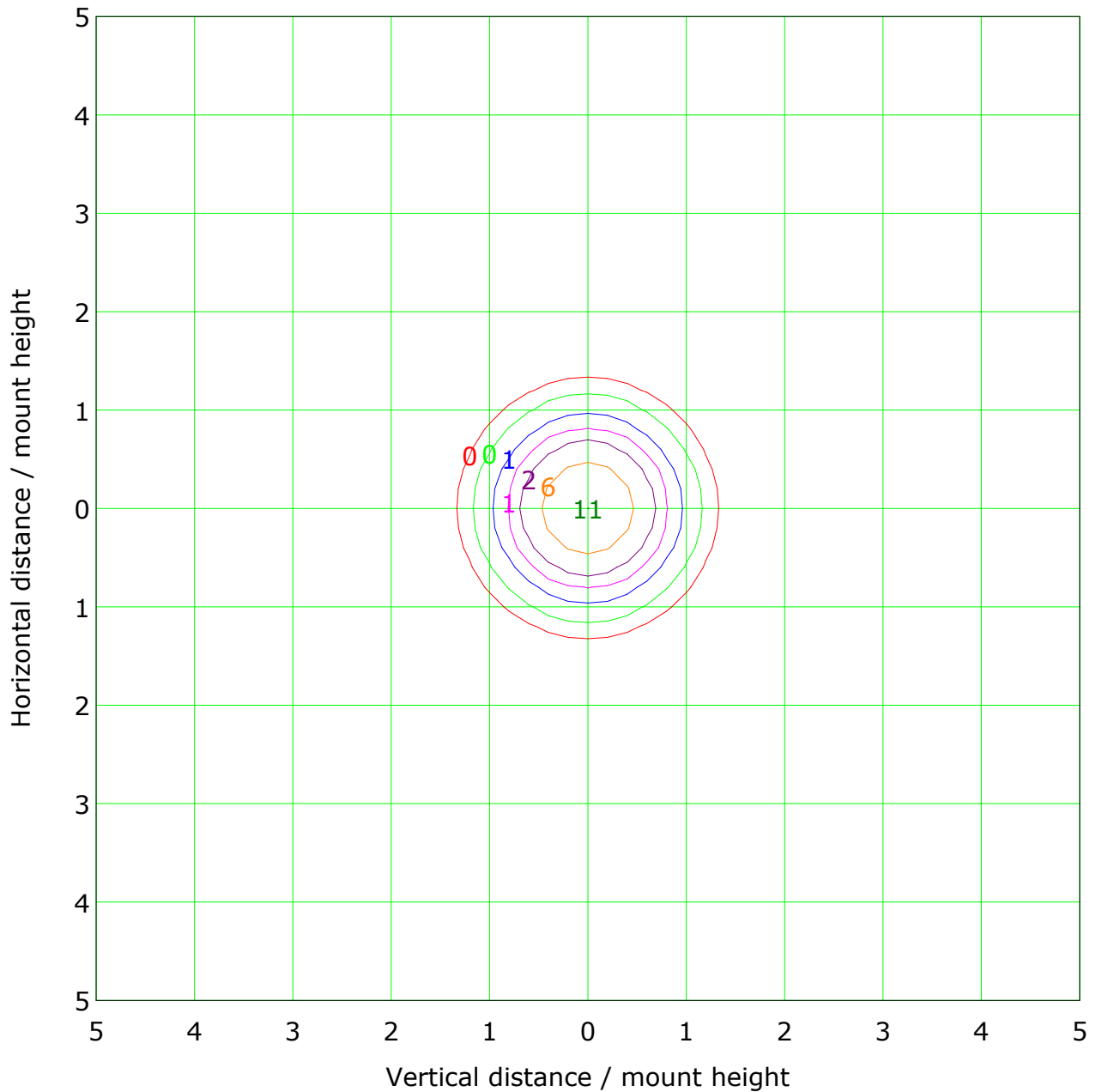
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



|                      |       |                      |      |
|----------------------|-------|----------------------|------|
| Mounting Height: 10m |       | Max Lux(100%): 11 lx |      |
| ( 1%):               | 0 lx  | ( 2%):               | 0 lx |
| ( 5%):               | 1 lx  | ( 10%):              | 1 lx |
| ( 20%):              | 2 lx  | ( 50%):              | 6 lx |
| (100%):              | 11 lx |                      |      |

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

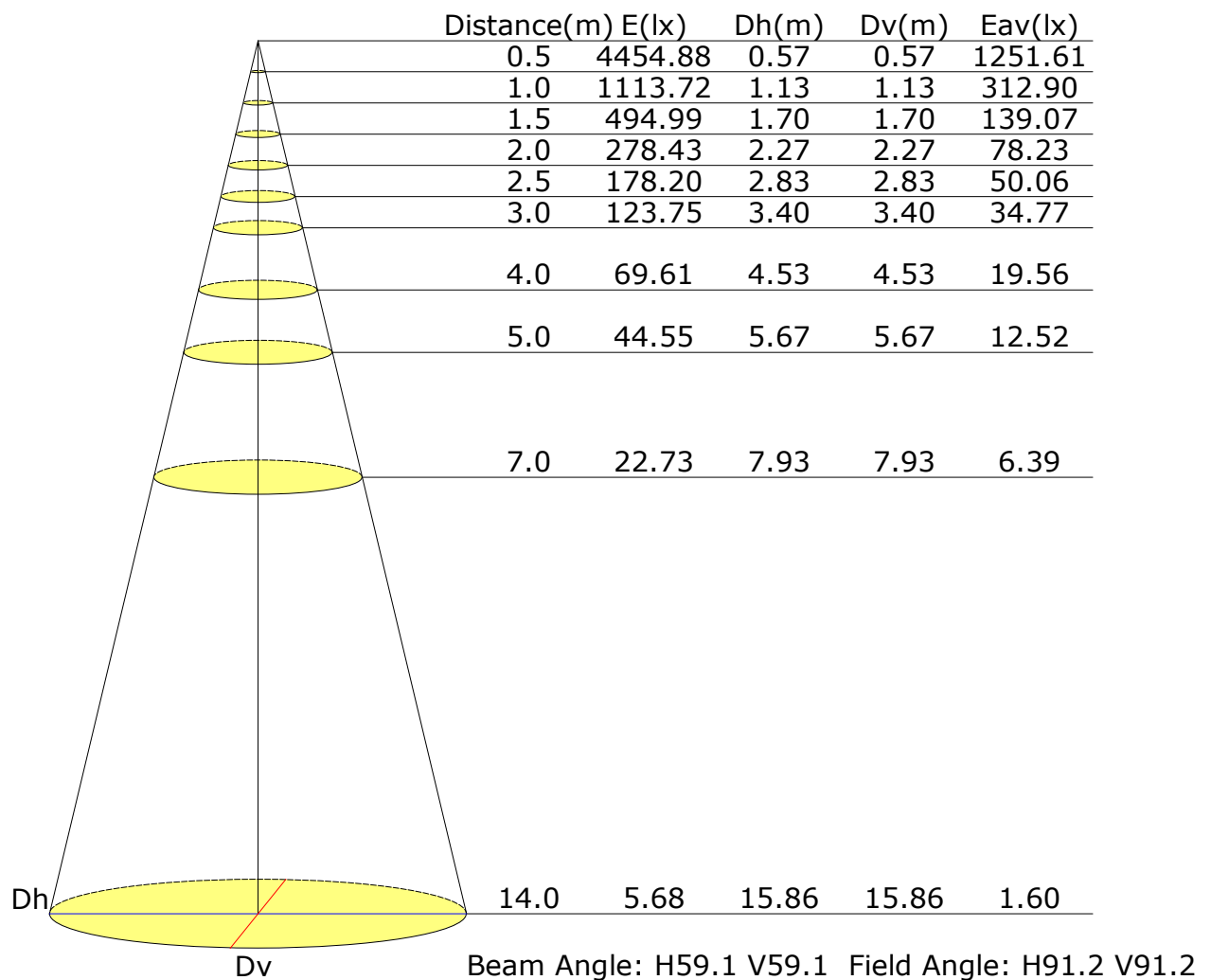
Test Device: CHL-6E

Distance: 3.328 m

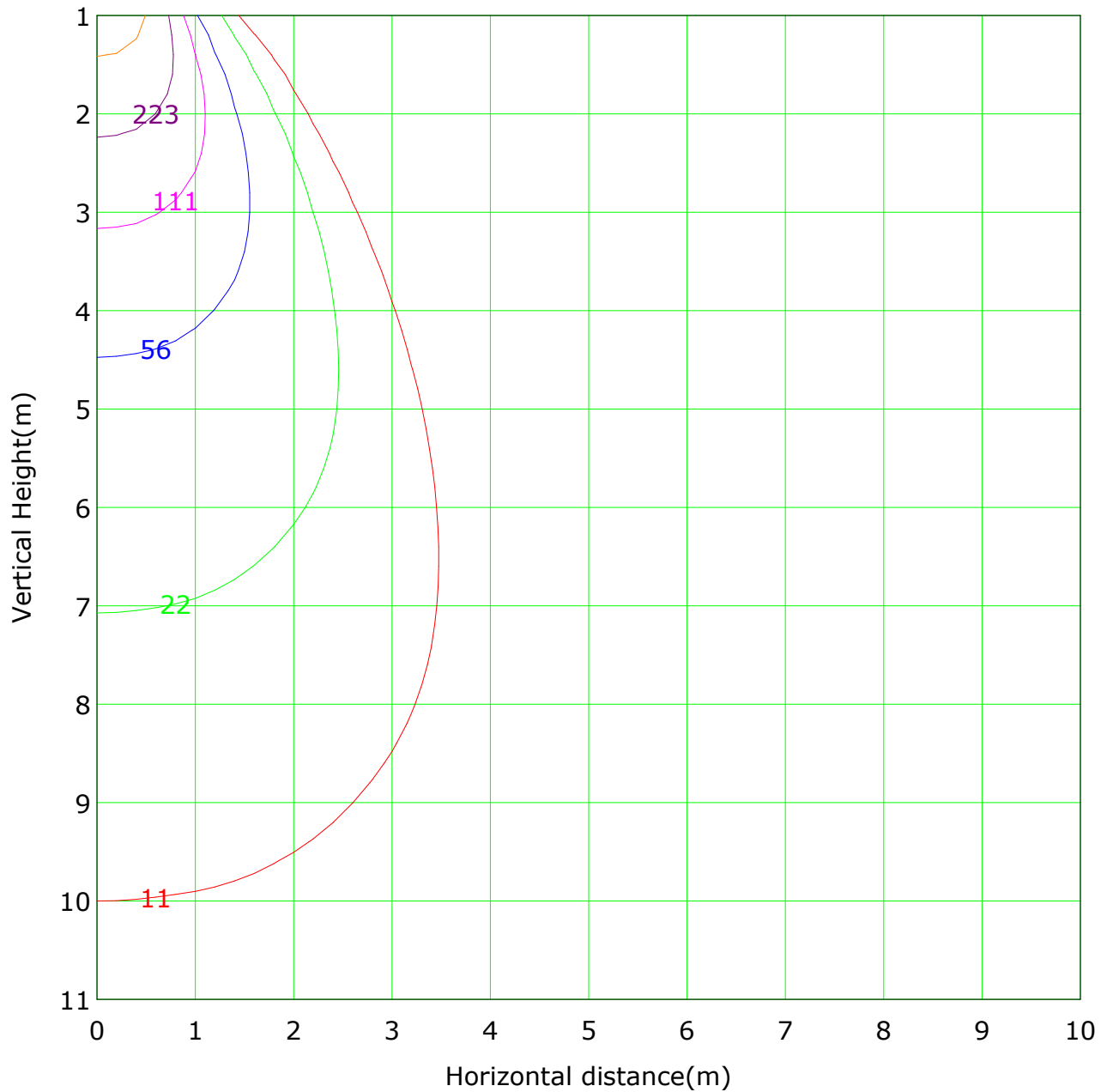
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1m    Highest(m): 11    Max Lux: 1114

|                 |                |
|-----------------|----------------|
| ( 1%): 11 lx    | ( 2%): 22 lx   |
| ( 5%): 56 lx    | ( 10%): 111 lx |
| ( 20%): 223 lx  | ( 50%): 557 lx |
| (100%): 1114 lx |                |

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

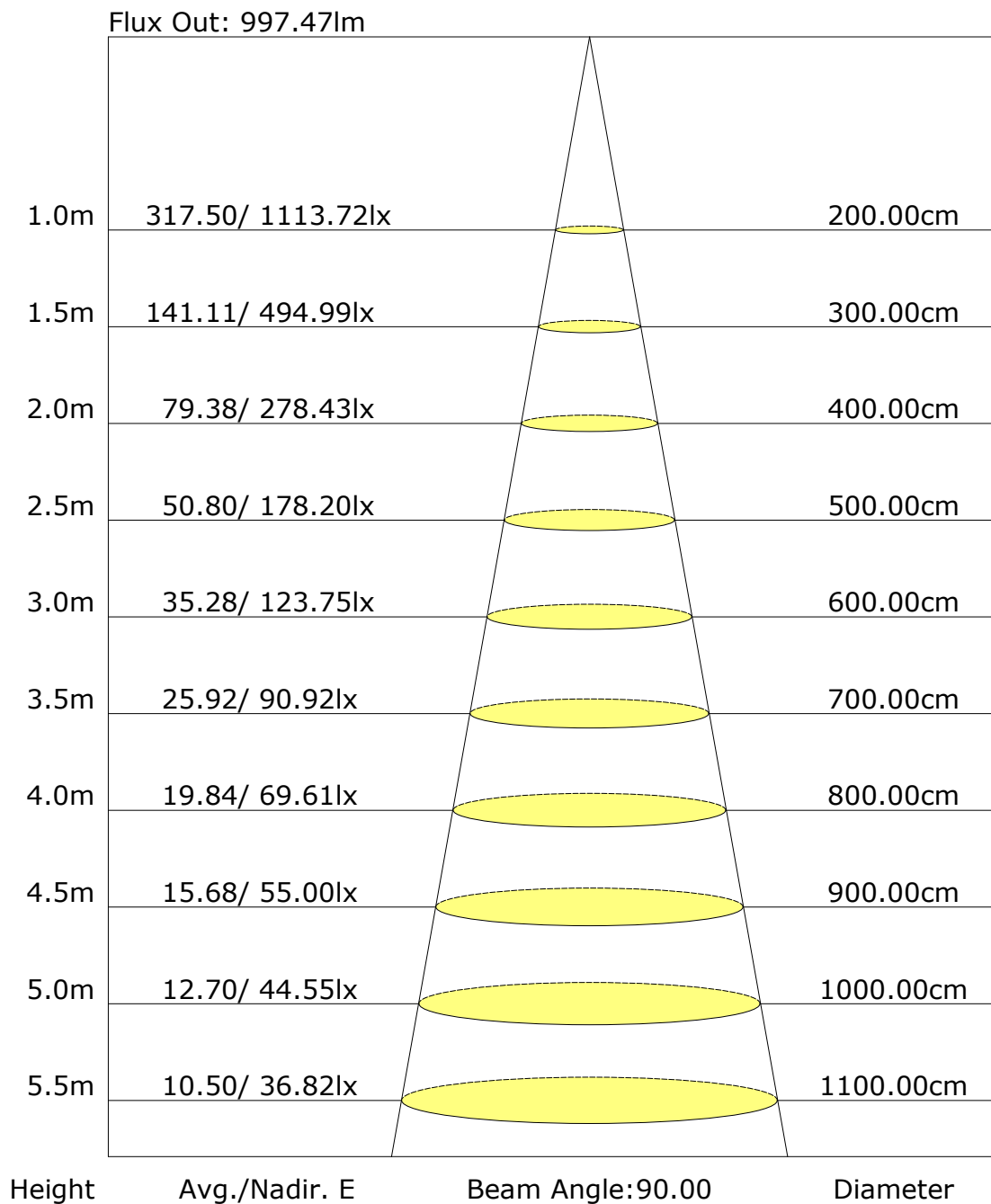
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## The average illuminance effective figure



C Plane (°): 0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°): 0.0-90.0: 1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Zonal Lumen

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0      | 1113.5                    | 1.1                | 1.1                    | 0.10                  | 0.10                      |
| 1.0-2.0      | 1112.6                    | 3.2                | 4.3                    | 0.30                  | 0.40                      |
| 2.0-3.0      | 1110.7                    | 5.3                | 9.6                    | 0.49                  | 0.89                      |
| 3.0-4.0      | 1108.4                    | 7.4                | 17.0                   | 0.69                  | 1.58                      |
| 4.0-5.0      | 1105.8                    | 9.5                | 26.5                   | 0.88                  | 2.46                      |
| 5.0-6.0      | 1103.0                    | 11.6               | 38.1                   | 1.08                  | 3.54                      |
| 6.0-7.0      | 1099.5                    | 13.6               | 51.7                   | 1.27                  | 4.81                      |
| 7.0-8.0      | 1094.8                    | 15.7               | 67.4                   | 1.46                  | 6.26                      |
| 8.0-9.0      | 1088.5                    | 17.6               | 85.1                   | 1.64                  | 7.90                      |
| 9.0-10.0     | 1080.3                    | 19.6               | 104.6                  | 1.82                  | 9.72                      |
| 10.0-11.0    | 1070.0                    | 21.4               | 126.0                  | 1.99                  | 11.71                     |
| 11.0-12.0    | 1057.9                    | 23.1               | 149.1                  | 2.15                  | 13.86                     |
| 12.0-13.0    | 1044.5                    | 24.8               | 173.9                  | 2.30                  | 16.16                     |
| 13.0-14.0    | 1029.8                    | 26.4               | 200.3                  | 2.45                  | 18.61                     |
| 14.0-15.0    | 1013.5                    | 27.8               | 228.1                  | 2.59                  | 21.19                     |
| 15.0-16.0    | 995.3                     | 29.2               | 257.3                  | 2.71                  | 23.90                     |
| 16.0-17.0    | 975.4                     | 30.4               | 287.7                  | 2.82                  | 26.73                     |
| 17.0-18.0    | 954.0                     | 31.5               | 319.1                  | 2.92                  | 29.65                     |
| 18.0-19.0    | 931.1                     | 32.4               | 351.5                  | 3.01                  | 32.66                     |
| 19.0-20.0    | 906.4                     | 33.2               | 384.7                  | 3.08                  | 35.74                     |
| 20.0-21.0    | 879.8                     | 33.8               | 418.5                  | 3.14                  | 38.88                     |
| 21.0-22.0    | 851.4                     | 34.2               | 452.7                  | 3.18                  | 42.06                     |
| 22.0-23.0    | 820.9                     | 34.4               | 487.2                  | 3.20                  | 45.26                     |
| 23.0-24.0    | 788.6                     | 34.5               | 521.6                  | 3.20                  | 48.47                     |
| 24.0-25.0    | 754.1                     | 34.3               | 555.9                  | 3.19                  | 51.65                     |
| 25.0-26.0    | 717.2                     | 33.9               | 589.8                  | 3.15                  | 54.80                     |
| 26.0-27.0    | 678.4                     | 33.2               | 623.0                  | 3.08                  | 57.88                     |
| 27.0-28.0    | 638.8                     | 32.3               | 655.3                  | 3.01                  | 60.89                     |
| 28.0-29.0    | 598.6                     | 31.3               | 686.6                  | 2.91                  | 63.80                     |
| 29.0-30.0    | 558.4                     | 30.2               | 716.8                  | 2.80                  | 66.60                     |
| 30.0-31.0    | 518.9                     | 28.9               | 745.7                  | 2.68                  | 69.28                     |
| 31.0-32.0    | 480.0                     | 27.5               | 773.2                  | 2.56                  | 71.84                     |
| 32.0-33.0    | 441.7                     | 26.0               | 799.2                  | 2.42                  | 74.26                     |
| 33.0-34.0    | 404.6                     | 24.5               | 823.7                  | 2.28                  | 76.53                     |
| 34.0-35.0    | 369.2                     | 22.9               | 846.6                  | 2.13                  | 78.66                     |
| 35.0-36.0    | 335.5                     | 21.4               | 868.0                  | 1.98                  | 80.65                     |

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Zonal Lumen (Continue 1)

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0    | 303.5                     | 19.8               | 887.8                  | 1.84                  | 82.49                     |
| 37.0-38.0    | 273.7                     | 18.3               | 906.1                  | 1.70                  | 84.18                     |
| 38.0-39.0    | 246.2                     | 16.8               | 922.9                  | 1.56                  | 85.75                     |
| 39.0-40.0    | 221.1                     | 15.4               | 938.3                  | 1.43                  | 87.18                     |
| 40.0-41.0    | 198.2                     | 14.1               | 952.4                  | 1.31                  | 88.49                     |
| 41.0-42.0    | 177.4                     | 12.9               | 965.3                  | 1.20                  | 89.69                     |
| 42.0-43.0    | 158.6                     | 11.7               | 977.0                  | 1.09                  | 90.78                     |
| 43.0-44.0    | 141.7                     | 10.7               | 987.7                  | 0.99                  | 91.77                     |
| 44.0-45.0    | 126.5                     | 9.7                | 997.5                  | 0.90                  | 92.68                     |
| 45.0-46.0    | 112.8                     | 8.8                | 1006.3                 | 0.82                  | 93.50                     |
| 46.0-47.0    | 100.7                     | 8.0                | 1014.3                 | 0.74                  | 94.24                     |
| 47.0-48.0    | 90.1                      | 7.3                | 1021.6                 | 0.68                  | 94.92                     |
| 48.0-49.0    | 80.8                      | 6.6                | 1028.2                 | 0.62                  | 95.53                     |
| 49.0-50.0    | 72.6                      | 6.1                | 1034.3                 | 0.56                  | 96.10                     |
| 50.0-51.0    | 65.2                      | 5.5                | 1039.8                 | 0.51                  | 96.61                     |
| 51.0-52.0    | 58.3                      | 5.0                | 1044.8                 | 0.46                  | 97.07                     |
| 52.0-53.0    | 51.6                      | 4.5                | 1049.3                 | 0.42                  | 97.49                     |
| 53.0-54.0    | 45.1                      | 4.0                | 1053.3                 | 0.37                  | 97.86                     |
| 54.0-55.0    | 38.8                      | 3.5                | 1056.7                 | 0.32                  | 98.18                     |
| 55.0-56.0    | 32.6                      | 2.9                | 1059.7                 | 0.27                  | 98.46                     |
| 56.0-57.0    | 26.7                      | 2.4                | 1062.1                 | 0.23                  | 98.68                     |
| 57.0-58.0    | 21.8                      | 2.0                | 1064.1                 | 0.19                  | 98.87                     |
| 58.0-59.0    | 18.0                      | 1.7                | 1065.8                 | 0.16                  | 99.03                     |
| 59.0-60.0    | 15.4                      | 1.5                | 1067.3                 | 0.13                  | 99.16                     |
| 60.0-61.0    | 13.5                      | 1.3                | 1068.5                 | 0.12                  | 99.28                     |
| 61.0-62.0    | 12.0                      | 1.2                | 1069.7                 | 0.11                  | 99.39                     |
| 62.0-63.0    | 10.8                      | 1.1                | 1070.8                 | 0.10                  | 99.49                     |
| 63.0-64.0    | 9.6                       | 0.9                | 1071.7                 | 0.09                  | 99.57                     |
| 64.0-65.0    | 7.7                       | 0.8                | 1072.5                 | 0.07                  | 99.64                     |
| 65.0-66.0    | 5.7                       | 0.6                | 1073.0                 | 0.05                  | 99.70                     |
| 66.0-67.0    | 4.3                       | 0.4                | 1073.5                 | 0.04                  | 99.74                     |
| 67.0-68.0    | 3.5                       | 0.4                | 1073.8                 | 0.03                  | 99.77                     |
| 68.0-69.0    | 3.0                       | 0.3                | 1074.1                 | 0.03                  | 99.80                     |
| 69.0-70.0    | 2.4                       | 0.2                | 1074.4                 | 0.02                  | 99.82                     |
| 70.0-71.0    | 1.9                       | 0.2                | 1074.6                 | 0.02                  | 99.84                     |
| 71.0-72.0    | 1.6                       | 0.2                | 1074.7                 | 0.02                  | 99.86                     |

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Candlepower Table

Unit: cd

| G\C   | C0.0   | C180.0 |  |  |  |  |  |  |  |  |
|-------|--------|--------|--|--|--|--|--|--|--|--|
| G0.0  | 1113.7 | 1113.7 |  |  |  |  |  |  |  |  |
| G1.0  | 1113.7 | 1113.0 |  |  |  |  |  |  |  |  |
| G2.0  | 1112.5 | 1111.2 |  |  |  |  |  |  |  |  |
| G3.0  | 1110.1 | 1109.1 |  |  |  |  |  |  |  |  |
| G4.0  | 1107.8 | 1106.4 |  |  |  |  |  |  |  |  |
| G5.0  | 1105.3 | 1103.8 |  |  |  |  |  |  |  |  |
| G6.0  | 1102.6 | 1100.4 |  |  |  |  |  |  |  |  |
| G7.0  | 1098.2 | 1096.8 |  |  |  |  |  |  |  |  |
| G8.0  | 1092.0 | 1092.3 |  |  |  |  |  |  |  |  |
| G9.0  | 1084.2 | 1085.7 |  |  |  |  |  |  |  |  |
| G10.0 | 1074.2 | 1077.2 |  |  |  |  |  |  |  |  |
| G11.0 | 1062.2 | 1066.4 |  |  |  |  |  |  |  |  |
| G12.0 | 1049.4 | 1053.8 |  |  |  |  |  |  |  |  |
| G13.0 | 1034.9 | 1040.1 |  |  |  |  |  |  |  |  |
| G14.0 | 1019.1 | 1025.1 |  |  |  |  |  |  |  |  |
| G15.0 | 1000.9 | 1008.9 |  |  |  |  |  |  |  |  |
| G16.0 | 980.8  | 990.8  |  |  |  |  |  |  |  |  |
| G17.0 | 959.3  | 970.8  |  |  |  |  |  |  |  |  |
| G18.0 | 937.2  | 948.7  |  |  |  |  |  |  |  |  |
| G19.0 | 913.6  | 925.0  |  |  |  |  |  |  |  |  |
| G20.0 | 887.8  | 899.2  |  |  |  |  |  |  |  |  |
| G21.0 | 860.6  | 871.8  |  |  |  |  |  |  |  |  |
| G22.0 | 830.4  | 842.7  |  |  |  |  |  |  |  |  |
| G23.0 | 798.3  | 812.2  |  |  |  |  |  |  |  |  |
| G24.0 | 764.5  | 779.3  |  |  |  |  |  |  |  |  |
| G25.0 | 728.3  | 744.3  |  |  |  |  |  |  |  |  |
| G26.0 | 689.6  | 706.5  |  |  |  |  |  |  |  |  |
| G27.0 | 650.0  | 667.4  |  |  |  |  |  |  |  |  |
| G28.0 | 610.4  | 627.3  |  |  |  |  |  |  |  |  |
| G29.0 | 569.7  | 586.8  |  |  |  |  |  |  |  |  |
| G30.0 | 530.4  | 546.6  |  |  |  |  |  |  |  |  |
| G31.0 | 492.0  | 506.5  |  |  |  |  |  |  |  |  |
| G32.0 | 454.0  | 467.4  |  |  |  |  |  |  |  |  |
| G33.0 | 416.6  | 428.8  |  |  |  |  |  |  |  |  |
| G34.0 | 381.4  | 391.7  |  |  |  |  |  |  |  |  |
| G35.0 | 347.0  | 356.8  |  |  |  |  |  |  |  |  |
| G36.0 | 315.0  | 323.1  |  |  |  |  |  |  |  |  |

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

| G\C   | C0.0  | C180.0 |  |  |  |  |  |  |  |  |
|-------|-------|--------|--|--|--|--|--|--|--|--|
| G37.0 | 284.8 | 291.3  |  |  |  |  |  |  |  |  |
| G38.0 | 256.6 | 262.1  |  |  |  |  |  |  |  |  |
| G39.0 | 230.7 | 235.4  |  |  |  |  |  |  |  |  |
| G40.0 | 207.3 | 210.9  |  |  |  |  |  |  |  |  |
| G41.0 | 185.7 | 188.8  |  |  |  |  |  |  |  |  |
| G42.0 | 166.1 | 168.8  |  |  |  |  |  |  |  |  |
| G43.0 | 148.9 | 150.6  |  |  |  |  |  |  |  |  |
| G44.0 | 133.1 | 134.4  |  |  |  |  |  |  |  |  |
| G45.0 | 118.8 | 119.8  |  |  |  |  |  |  |  |  |
| G46.0 | 105.8 | 107.0  |  |  |  |  |  |  |  |  |
| G47.0 | 94.3  | 95.6   |  |  |  |  |  |  |  |  |
| G48.0 | 84.5  | 85.9   |  |  |  |  |  |  |  |  |
| G49.0 | 76.0  | 76.8   |  |  |  |  |  |  |  |  |
| G50.0 | 68.4  | 69.0   |  |  |  |  |  |  |  |  |
| G51.0 | 61.2  | 62.1   |  |  |  |  |  |  |  |  |
| G52.0 | 54.3  | 55.5   |  |  |  |  |  |  |  |  |
| G53.0 | 46.9  | 49.8   |  |  |  |  |  |  |  |  |
| G54.0 | 41.1  | 42.7   |  |  |  |  |  |  |  |  |
| G55.0 | 33.8  | 37.6   |  |  |  |  |  |  |  |  |
| G56.0 | 27.1  | 31.8   |  |  |  |  |  |  |  |  |
| G57.0 | 21.9  | 26.0   |  |  |  |  |  |  |  |  |
| G58.0 | 17.9  | 21.4   |  |  |  |  |  |  |  |  |
| G59.0 | 15.3  | 17.6   |  |  |  |  |  |  |  |  |
| G60.0 | 13.4  | 15.1   |  |  |  |  |  |  |  |  |
| G61.0 | 11.9  | 13.4   |  |  |  |  |  |  |  |  |
| G62.0 | 10.8  | 11.9   |  |  |  |  |  |  |  |  |
| G63.0 | 9.8   | 10.8   |  |  |  |  |  |  |  |  |
| G64.0 | 7.8   | 9.8    |  |  |  |  |  |  |  |  |
| G65.0 | 5.1   | 8.1    |  |  |  |  |  |  |  |  |
| G66.0 | 4.0   | 5.7    |  |  |  |  |  |  |  |  |
| G67.0 | 3.5   | 4.2    |  |  |  |  |  |  |  |  |
| G68.0 | 3.0   | 3.5    |  |  |  |  |  |  |  |  |
| G69.0 | 2.5   | 2.9    |  |  |  |  |  |  |  |  |
| G70.0 | 2.0   | 2.2    |  |  |  |  |  |  |  |  |
| G71.0 | 1.6   | 1.9    |  |  |  |  |  |  |  |  |
| G72.0 | 1.6   | 1.4    |  |  |  |  |  |  |  |  |
| G73.0 | 1.6   | 1.4    |  |  |  |  |  |  |  |  |

C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## Unit: cd

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector: