

Report No.: MSL-29

Test Time: 2019-03-04 08:23

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Bala Stil Led Flat 32W Epistar

Number of Lamps: 1

Luminous Length (mm): 250 Diametro

Luminous Width (mm): 250 Diametro

Luminous Height (mm): 0

Voltage: 119.9 V

Current: 0.265 A

Power: 31.65 W

Power Factor: 0.995

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2596.8 lm

Measurement Flux: 2596.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.9, 161.1, 161.4, 160.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.6, 107.6, 107.7, 107.7

Luminaire Efficacy Rating (LER): 82.10

Central Intensity: 952.51 cd

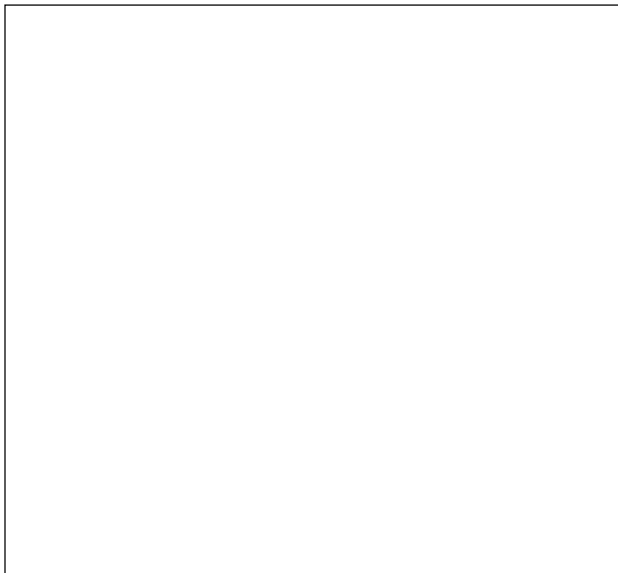
Max. Intensity: 954.17 cd

Pos of Max. Intensity: H20 V0

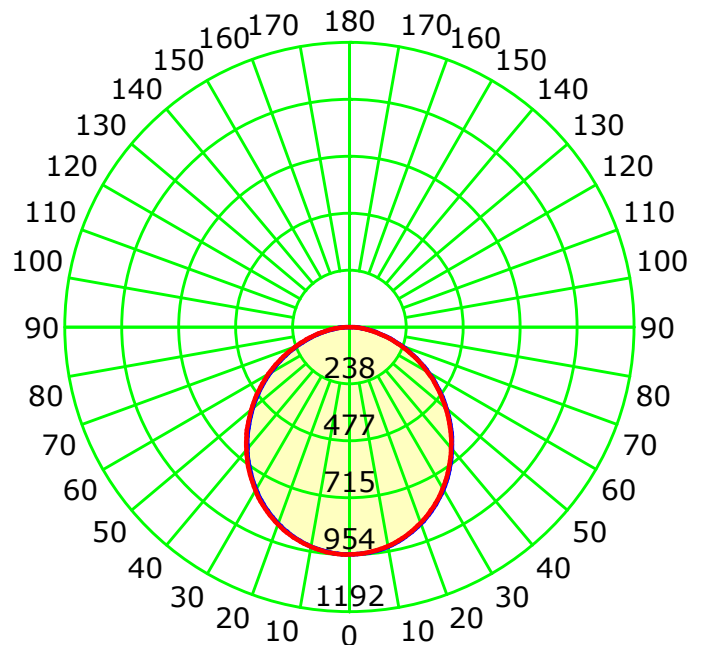
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 10.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND

Test Device: LSG-1700B

Test Type: TYPE C

Distance: 11.703 m — C90-C270

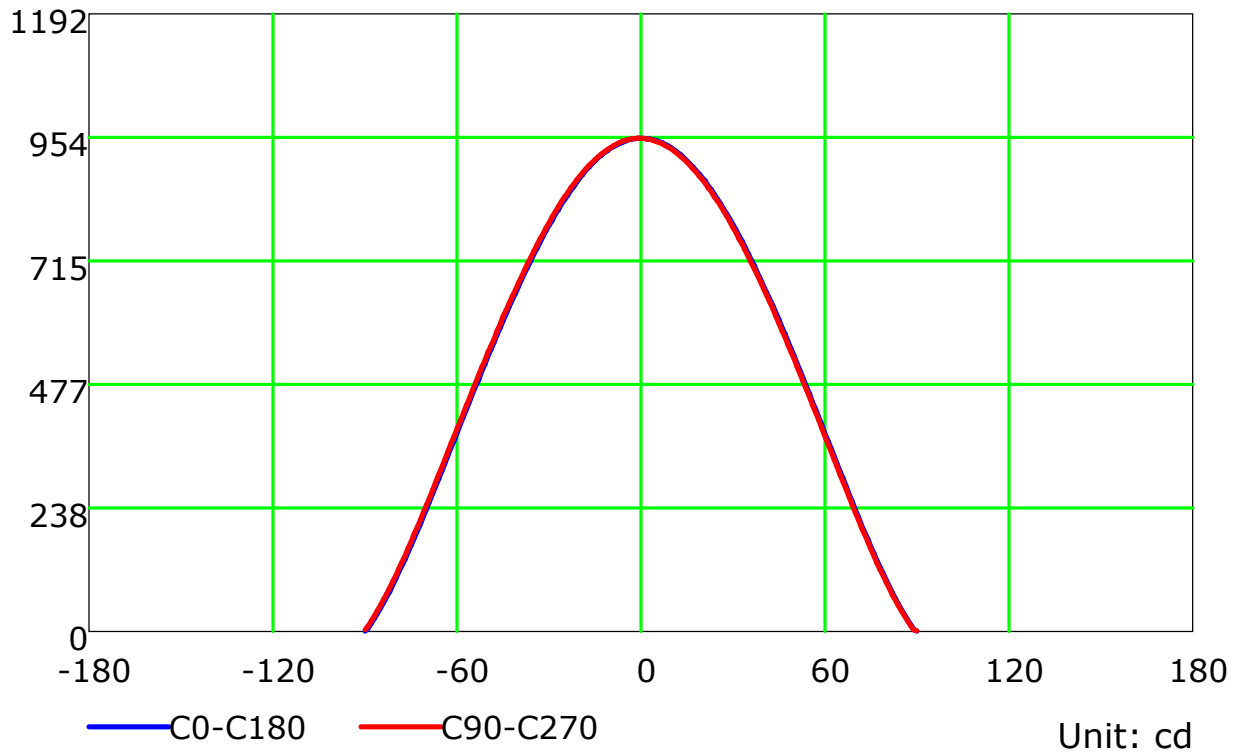
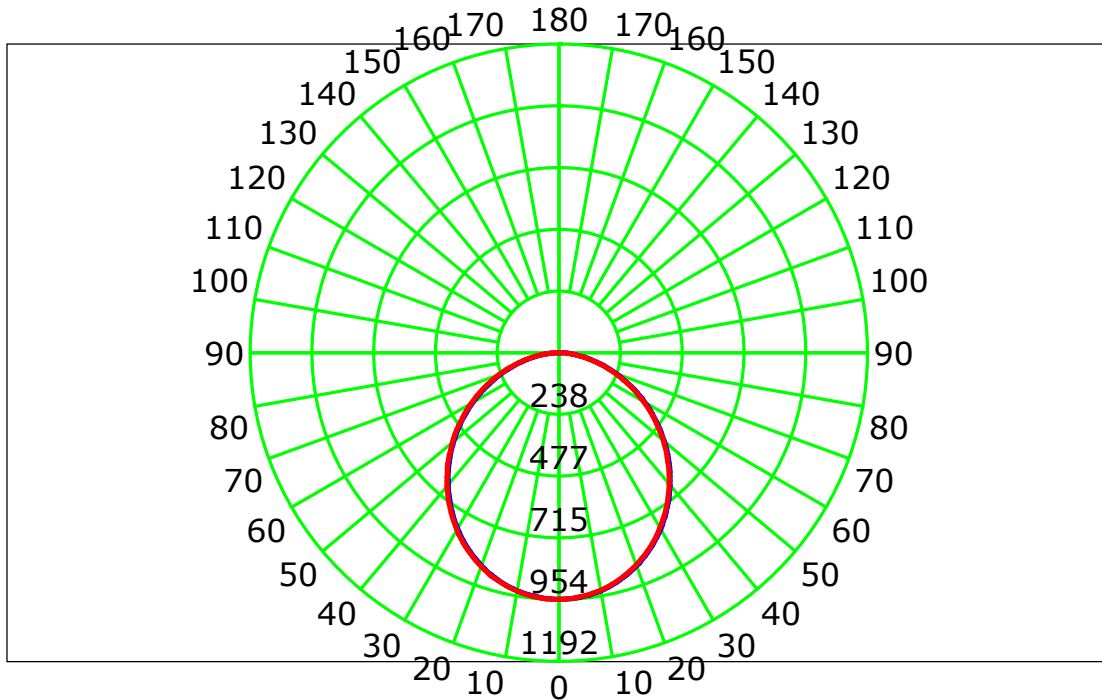
Temperature: 25.1

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

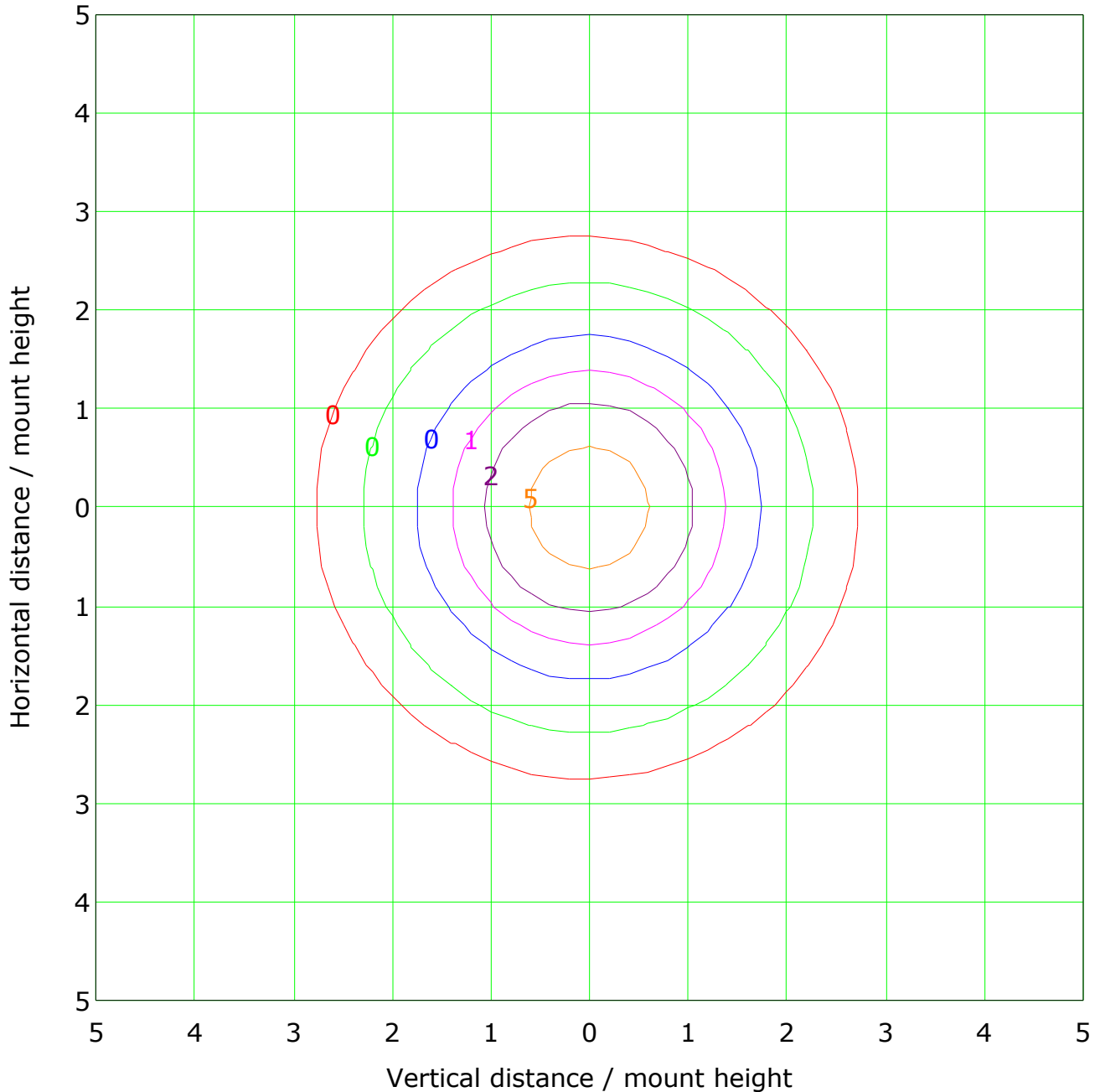
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.1
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 9.5 lx

— (1%): 0.1 lx

— (2%): 0.2 lx

— (5%): 0.5 lx

— (10%): 1.0 lx

C Plane (°):0.0-360.0: 10.0, \, \, 1.9 lx

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND

Test Device: LSG-1700B ^{IX}

Test Type: TYPE C (100%): 9.5 lx

Distance: 11.703 m

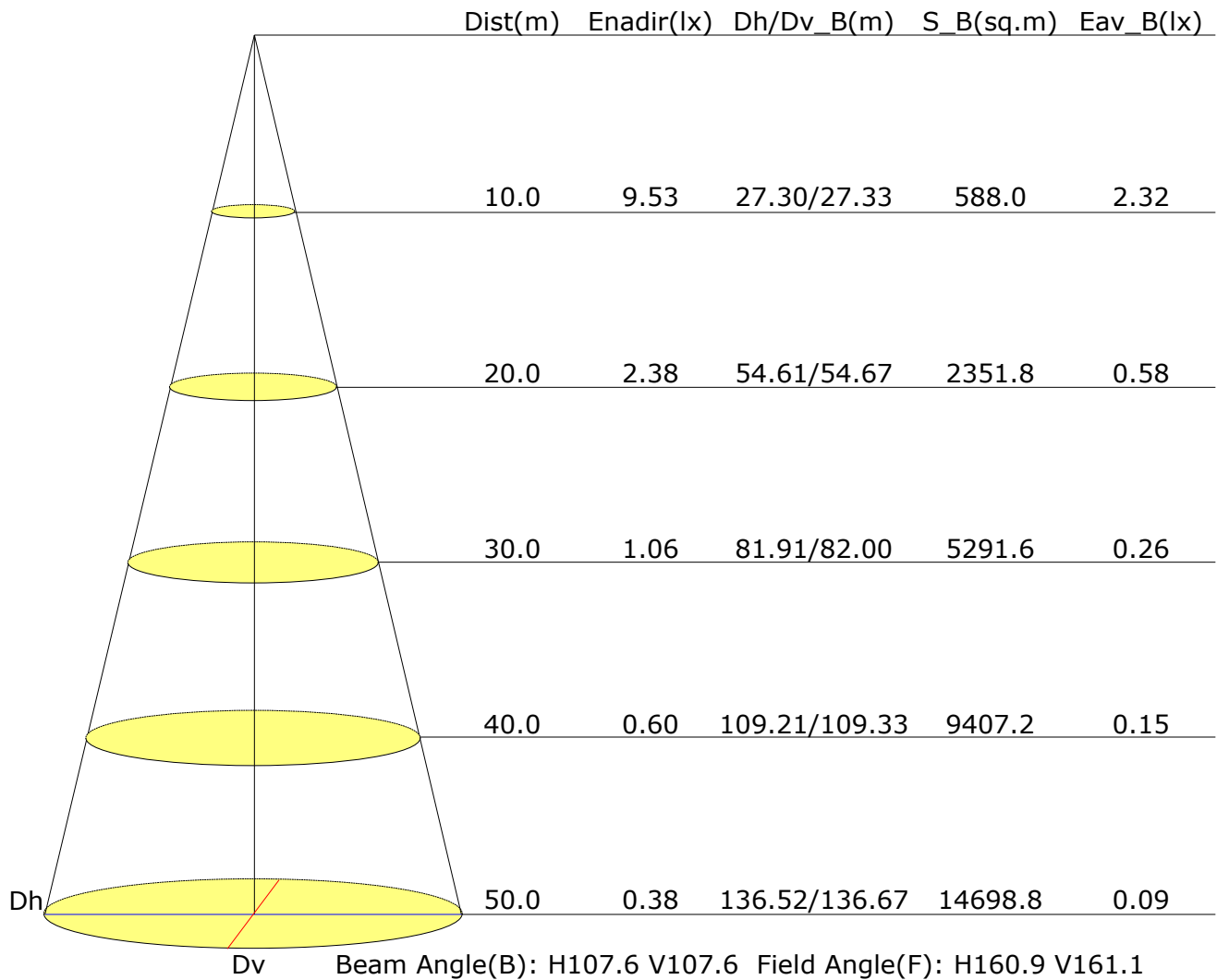
Temperature: 25.1

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

Illuminance at a Distance



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	952.7	0.9	0.9	0.04	0.04
1.0-2.0	952.3	2.7	3.6	0.11	0.14
2.0-3.0	951.5	4.6	8.2	0.18	0.32
3.0-4.0	950.3	6.4	14.6	0.24	0.56
4.0-5.0	948.7	8.2	22.7	0.31	0.87
5.0-6.0	946.8	10.0	32.7	0.38	1.26
6.0-7.0	944.4	11.7	44.4	0.45	1.71
7.0-8.0	941.7	13.5	57.9	0.52	2.23
8.0-9.0	938.6	15.2	73.1	0.59	2.81
9.0-10.0	935.2	16.9	90.0	0.65	3.47
10.0-11.0	931.3	18.6	108.6	0.72	4.18
11.0-12.0	927.0	20.3	128.9	0.78	4.96
12.0-13.0	922.6	21.9	150.8	0.84	5.81
13.0-14.0	917.5	23.5	174.3	0.90	6.71
14.0-15.0	912.1	25.0	199.3	0.96	7.68
15.0-16.0	906.4	26.6	225.9	1.02	8.70
16.0-17.0	900.3	28.0	253.9	1.08	9.78
17.0-18.0	894.1	29.5	283.4	1.14	10.91
18.0-19.0	887.1	30.9	314.3	1.19	12.10
19.0-20.0	880.0	32.2	346.5	1.24	13.34
20.0-21.0	872.7	33.5	380.0	1.29	14.63
21.0-22.0	864.8	34.8	414.8	1.34	15.97
22.0-23.0	856.6	35.9	450.7	1.38	17.36
23.0-24.0	848.1	37.1	487.8	1.43	18.78
24.0-25.0	839.3	38.2	526.0	1.47	20.25
25.0-26.0	830.4	39.2	565.2	1.51	21.76
26.0-27.0	820.8	40.2	605.3	1.55	23.31
27.0-28.0	811.0	41.1	646.4	1.58	24.89
28.0-29.0	801.3	41.9	688.3	1.61	26.51
29.0-30.0	791.0	42.7	731.0	1.64	28.15
30.0-31.0	780.4	43.4	774.5	1.67	29.82
31.0-32.0	769.5	44.1	818.6	1.70	31.52
32.0-33.0	758.3	44.7	863.2	1.72	33.24
33.0-34.0	747.3	45.2	908.5	1.74	34.98
34.0-35.0	735.6	45.7	954.2	1.76	36.74
35.0-36.0	723.6	46.1	1000.2	1.77	38.52

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.1
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	711.7	46.4	1046.7	1.79	40.31
37.0-38.0	699.3	46.7	1093.4	1.80	42.10
38.0-39.0	687.1	46.9	1140.3	1.81	43.91
39.0-40.0	674.4	47.0	1187.3	1.81	45.72
40.0-41.0	661.4	47.1	1234.4	1.81	47.54
41.0-42.0	648.8	47.1	1281.5	1.82	49.35
42.0-43.0	635.5	47.1	1328.6	1.81	51.16
43.0-44.0	622.0	47.0	1375.6	1.81	52.97
44.0-45.0	608.7	46.8	1422.4	1.80	54.77
45.0-46.0	594.9	46.5	1468.9	1.79	56.57
46.0-47.0	581.3	46.2	1515.1	1.78	58.35
47.0-48.0	567.2	45.9	1561.0	1.77	60.11
48.0-49.0	552.9	45.4	1606.4	1.75	61.86
49.0-50.0	539.1	45.0	1651.4	1.73	63.59
50.0-51.0	524.7	44.4	1695.8	1.71	65.30
51.0-52.0	510.2	43.8	1739.5	1.69	66.99
52.0-53.0	495.9	43.1	1782.7	1.66	68.65
53.0-54.0	481.2	42.4	1825.1	1.63	70.28
54.0-55.0	466.7	41.7	1866.8	1.60	71.89
55.0-56.0	451.8	40.8	1907.6	1.57	73.46
56.0-57.0	436.9	40.0	1947.5	1.54	75.00
57.0-58.0	422.7	39.1	1986.6	1.51	76.50
58.0-59.0	407.6	38.1	2024.8	1.47	77.97
59.0-60.0	392.6	37.1	2061.8	1.43	79.40
60.0-61.0	377.6	36.0	2097.9	1.39	80.79
61.0-62.0	362.5	34.9	2132.8	1.35	82.13
62.0-63.0	347.9	33.8	2166.7	1.30	83.44
63.0-64.0	332.8	32.7	2199.3	1.26	84.69
64.0-65.0	317.7	31.4	2230.8	1.21	85.91
65.0-66.0	303.3	30.3	2261.0	1.17	87.07
66.0-67.0	288.3	29.0	2290.0	1.12	88.19
67.0-68.0	273.4	27.7	2317.7	1.07	89.25
68.0-69.0	258.6	26.4	2344.1	1.02	90.27
69.0-70.0	243.9	25.1	2369.2	0.96	91.23
70.0-71.0	229.8	23.8	2392.9	0.91	92.15
71.0-72.0	215.2	22.4	2415.3	0.86	93.01

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.1
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector:

