

Report No.: MSL-231

Test Time: 2020-01-30 09:34

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Bala Stil Led Recesada 55W Nuevo Diseño

Luminous Length (mm): 180 Diametro

Luminous Width (mm): 180 Diametro

Luminous Height (mm): 0

Voltage: 119.9 V

Current: 0.480 A

Power: 57.29 W

Power Factor: 0.995

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5576.3 lm

Measurement Flux: 5576.3 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 145.6, 145.5, 145.6, 145.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 89.0, 89.2, 89.2, 89.2

Luminaire Efficacy Rating (LER): 97.38

Central Intensity: 2636.91 cd

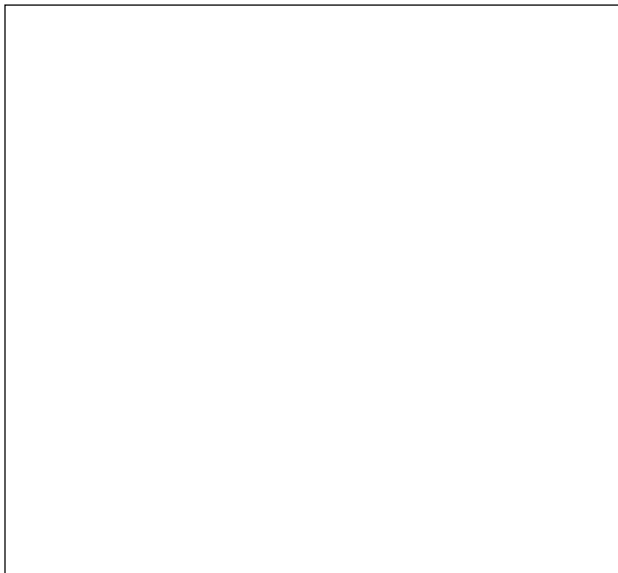
Max. Intensity: 2640.4 cd

Pos of Max. Intensity: H100 V1

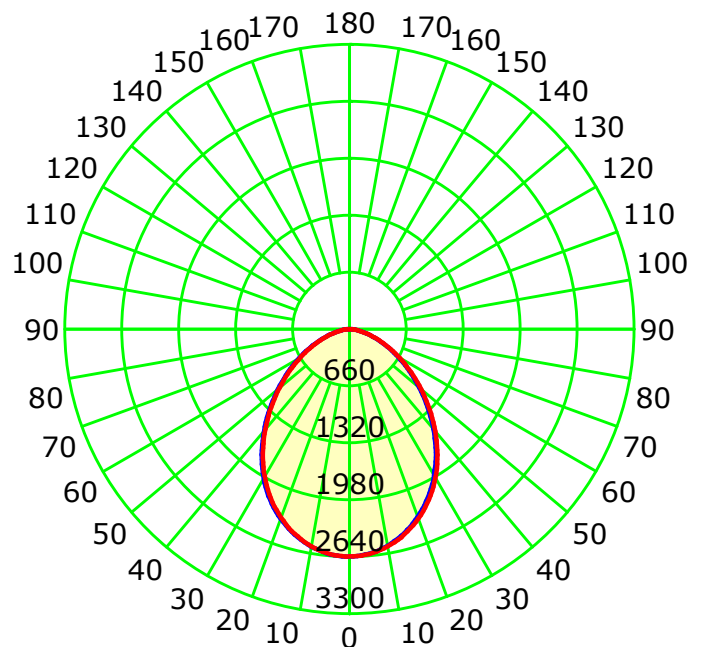
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.13

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: 11.700 m — C90-C270

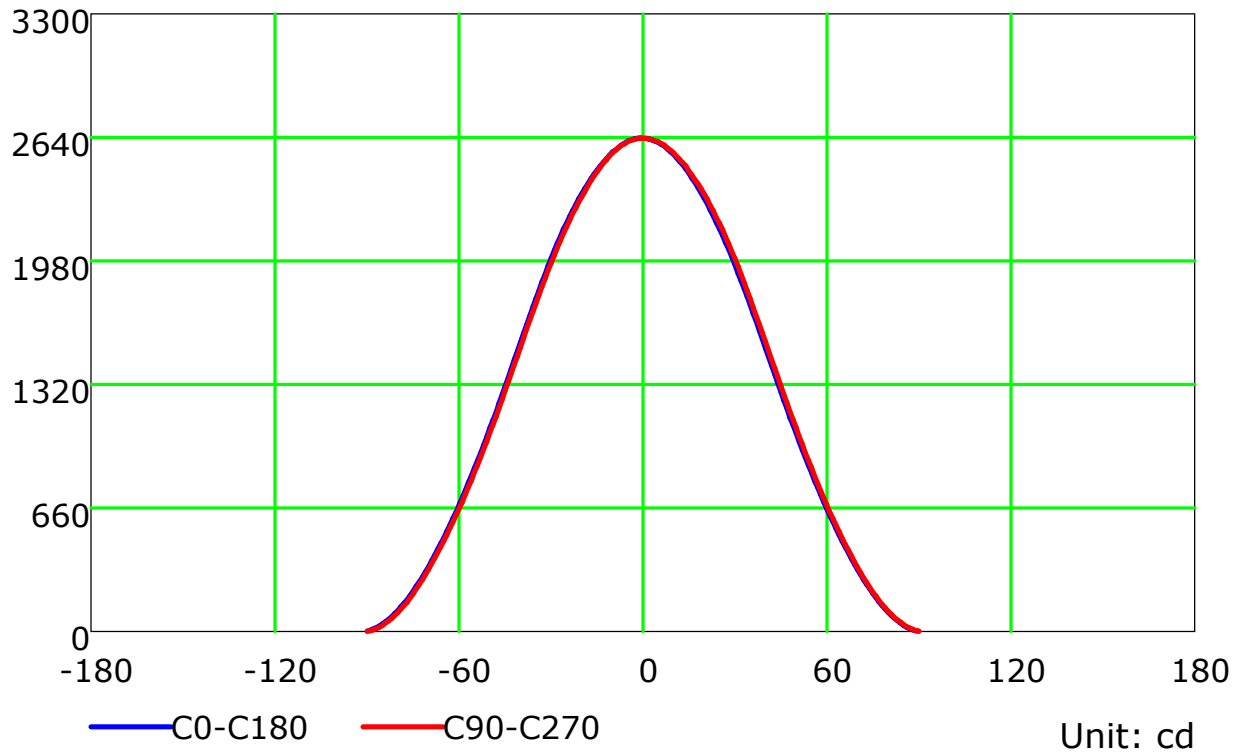
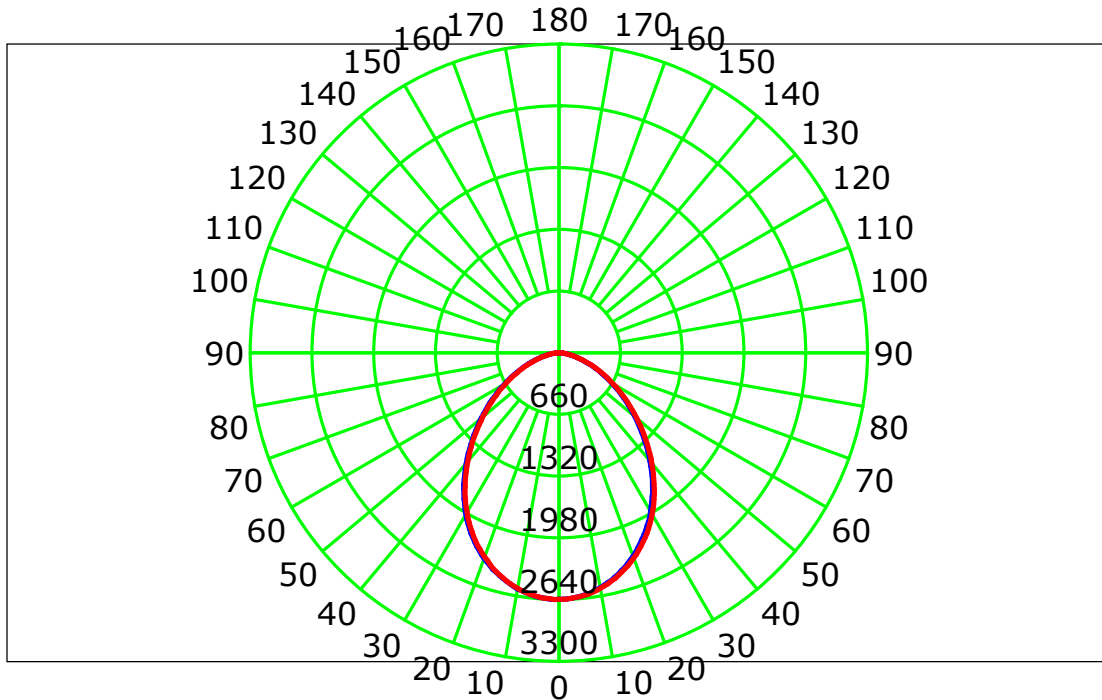
Temperature: 25.4

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

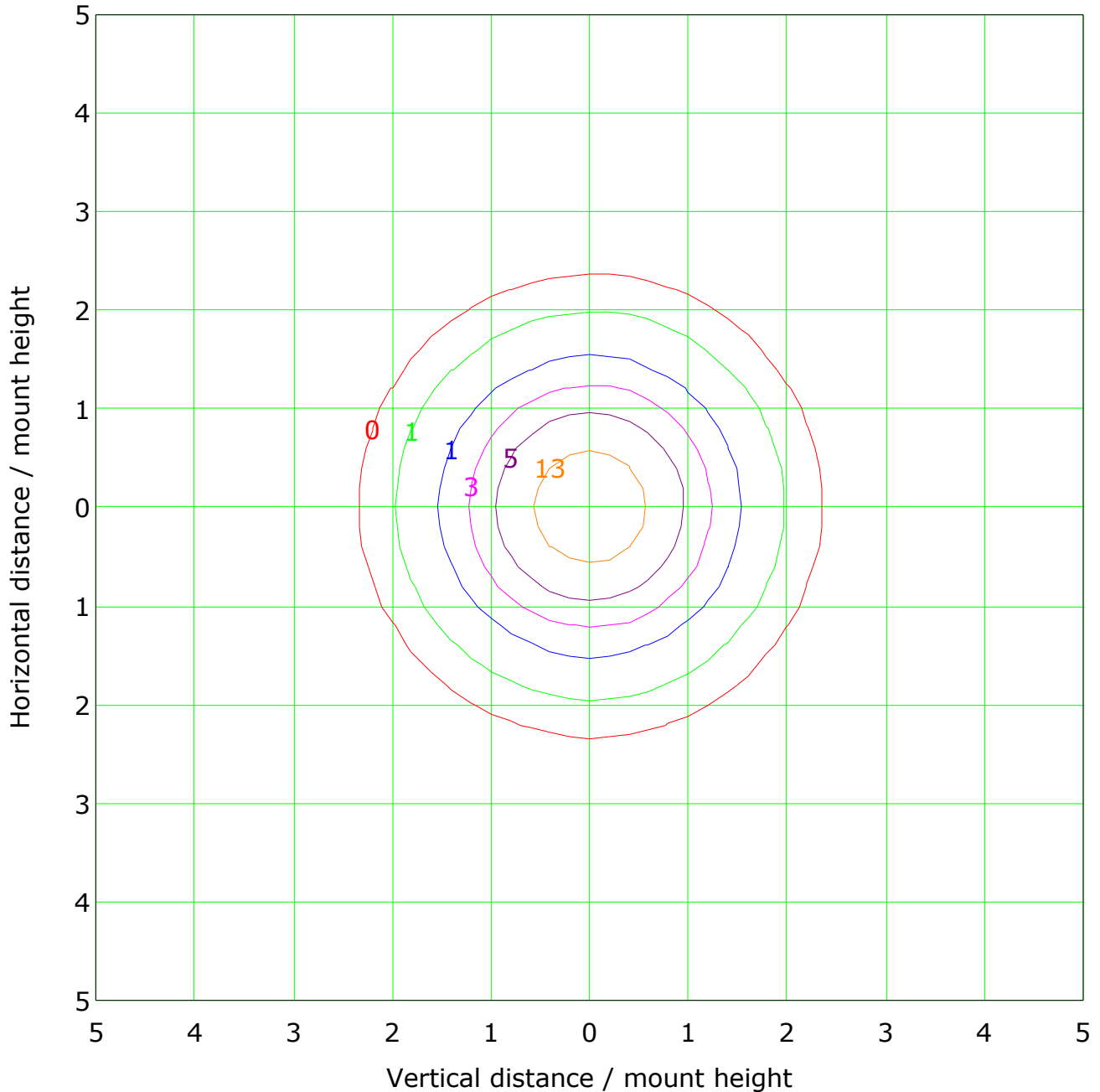
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.4
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 26.4 lx

(1%): 0.3 lx

(2%): 0.5 lx

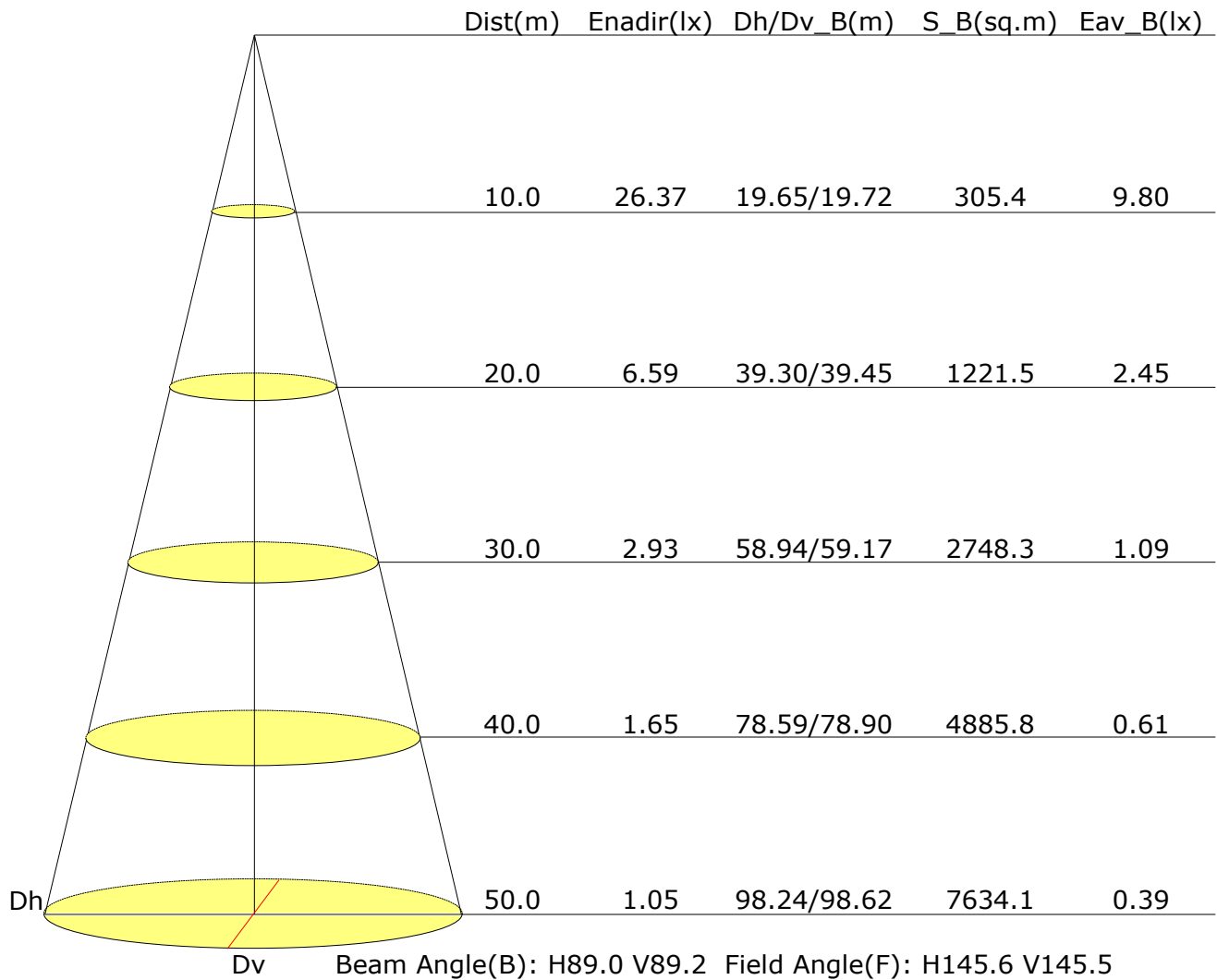
(5%): 1.3 lx

(100%): 26.4 lx

C Plane (°):0.0-360.0: 10.0, \, 5.3 lx
Test Lab: LABORATORIO STAND
Test Type: TYPE C (100%): 26.4 lx
Temperature: 25.4
Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
Test Device: LSG-1700B¹ lx
Distance: 11.700 m
Humidity:
Inspector:

Illuminance at a Distance



Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2637.2	2.5	2.5	0.05	0.05
1.0-2.0	2635.8	7.6	10.1	0.14	0.18
2.0-3.0	2632.6	12.6	22.7	0.23	0.41
3.0-4.0	2627.6	17.6	40.3	0.32	0.72
4.0-5.0	2621.5	22.6	62.8	0.40	1.13
5.0-6.0	2613.5	27.5	90.3	0.49	1.62
6.0-7.0	2603.7	32.3	122.6	0.58	2.20
7.0-8.0	2592.3	37.1	159.7	0.67	2.86
8.0-9.0	2579.2	41.8	201.5	0.75	3.61
9.0-10.0	2565.3	46.4	248.0	0.83	4.45
10.0-11.0	2549.3	50.9	298.9	0.91	5.36
11.0-12.0	2531.5	55.3	354.3	0.99	6.35
12.0-13.0	2513.4	59.7	413.9	1.07	7.42
13.0-14.0	2493.1	63.8	477.7	1.14	8.57
14.0-15.0	2471.2	67.9	545.6	1.22	9.78
15.0-16.0	2448.2	71.7	617.3	1.29	11.07
16.0-17.0	2423.8	75.5	692.8	1.35	12.42
17.0-18.0	2399.2	79.1	771.9	1.42	13.84
18.0-19.0	2372.3	82.5	854.5	1.48	15.32
19.0-20.0	2344.3	85.8	940.3	1.54	16.86
20.0-21.0	2315.9	88.9	1029.2	1.59	18.46
21.0-22.0	2285.1	91.8	1121.1	1.65	20.10
22.0-23.0	2253.7	94.6	1215.7	1.70	21.80
23.0-24.0	2221.4	97.1	1312.8	1.74	23.54
24.0-25.0	2187.5	99.5	1412.3	1.78	25.33
25.0-26.0	2153.4	101.7	1513.9	1.82	27.15
26.0-27.0	2116.8	103.6	1617.5	1.86	29.01
27.0-28.0	2079.0	105.3	1722.8	1.89	30.89
28.0-29.0	2041.4	106.8	1829.6	1.92	32.81
29.0-30.0	2001.1	108.1	1937.7	1.94	34.75
30.0-31.0	1960.3	109.1	2046.8	1.96	36.70
31.0-32.0	1918.0	109.9	2156.7	1.97	38.68
32.0-33.0	1874.9	110.5	2267.1	1.98	40.66
33.0-34.0	1832.5	110.9	2378.0	1.99	42.65
34.0-35.0	1787.7	111.0	2489.1	1.99	44.64
35.0-36.0	1741.8	110.9	2600.0	1.99	46.63

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.4
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1696.0	110.6	2710.6	1.98	48.61
37.0-38.0	1649.5	110.1	2820.7	1.97	50.58
38.0-39.0	1603.5	109.5	2930.2	1.96	52.55
39.0-40.0	1556.3	108.6	3038.8	1.95	54.49
40.0-41.0	1509.1	107.5	3146.2	1.93	56.42
41.0-42.0	1463.7	106.4	3252.6	1.91	58.33
42.0-43.0	1416.4	104.9	3357.5	1.88	60.21
43.0-44.0	1369.2	103.4	3460.9	1.85	62.06
44.0-45.0	1323.1	101.7	3562.6	1.82	63.89
45.0-46.0	1276.3	99.8	3662.4	1.79	65.68
46.0-47.0	1230.9	97.9	3760.3	1.76	67.43
47.0-48.0	1184.9	95.8	3856.1	1.72	69.15
48.0-49.0	1139.2	93.6	3949.7	1.68	70.83
49.0-50.0	1096.3	91.4	4041.1	1.64	72.47
50.0-51.0	1052.0	89.0	4130.1	1.60	74.07
51.0-52.0	1008.1	86.5	4216.6	1.55	75.62
52.0-53.0	965.8	84.0	4300.7	1.51	77.12
53.0-54.0	923.4	81.4	4382.1	1.46	78.58
54.0-55.0	882.3	78.8	4460.8	1.41	80.00
55.0-56.0	841.1	76.0	4536.9	1.36	81.36
56.0-57.0	800.9	73.2	4610.1	1.31	82.67
57.0-58.0	763.2	70.6	4680.7	1.27	83.94
58.0-59.0	724.2	67.7	4748.4	1.21	85.15
59.0-60.0	686.0	64.8	4813.2	1.16	86.32
60.0-61.0	649.2	62.0	4875.2	1.11	87.43
61.0-62.0	612.9	59.1	4934.2	1.06	88.49
62.0-63.0	578.4	56.3	4990.5	1.01	89.49
63.0-64.0	543.4	53.3	5043.8	0.96	90.45
64.0-65.0	509.4	50.4	5094.3	0.90	91.36
65.0-66.0	477.5	47.6	5141.9	0.85	92.21
66.0-67.0	445.1	44.8	5186.7	0.80	93.01
67.0-68.0	414.0	41.9	5228.6	0.75	93.76
68.0-69.0	383.6	39.1	5267.7	0.70	94.47
69.0-70.0	353.6	36.3	5304.1	0.65	95.12
70.0-71.0	325.7	33.7	5337.7	0.60	95.72
71.0-72.0	298.0	31.0	5368.7	0.56	96.28

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.4
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector:

