

## Teamtronic Goniophotometer Test Report

### Product Info

Luminaire : **Rizzato 42\_satin brass\_Opal\_ø400x449\_7.7W\_927**

Manufacturer : **Teamtronic**

Nuber of Lamps : **1**

Lumens per Lamp : **0 lm**

Luminous Length : **400 mm**

Luminous Width : **0 mm**

Luminous Height : **449 mm**

### Electric Parameters

Voltage : **231.40 V** Current : **0.0420 A** Power : **7.68 W** Power Factor : **0.785** Frequency : **50.00 Hz**

### Photometric Parameters

CIE Class : **General Diffuse**

Measurement Flux : **655.5 lm**

Upward Ratio : **41.60 %**

Maximum Intensity : **90.98 cd**

Central Intensity : **90.82 cd**

Luminaire Efficacy Rating (LER) : **85**

Beam Angle (C0-C180,C90-C270) : **360.0 °, 329.0 °**

Field Angle (C0-C180,C90-C270) : **360.0 °, 360.0 °**

Total Rated Lamp Lumens : **655.5 lm**

Efficiency : **100.00 %**

Downward Ratio : **58.40 %**

Position Of Maximum Intensity : **C135° γ4°**

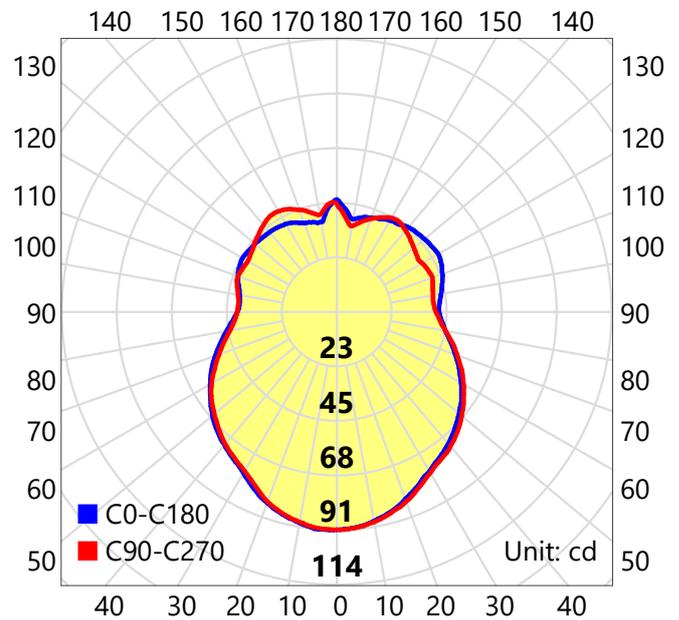
S/MH(C0-C180,C90-C270) : **1.27, 1.27**

Energy Efficiency Class : **F (EU 2019/2015 η<sub>TM</sub>:85lm/W)**

Beam Angle (C45-C225,C135-C315) : **274.0 °, 223.0 °**

Field Angle (C45-C225,C135-C315) : **360.0 °, 360.0 °**

Here show photo of luminarie



Test Type : Type C Test Distance : 6.119 m

Test Device : Lisun LSG-1700B

Test Lab :

Test By : P. Nellemose

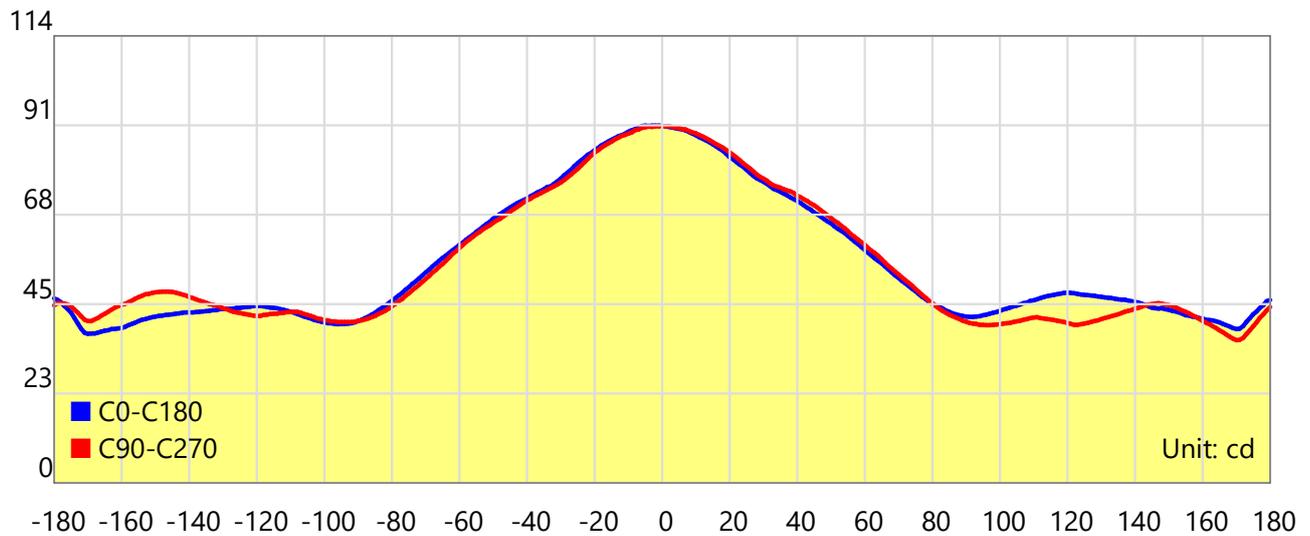
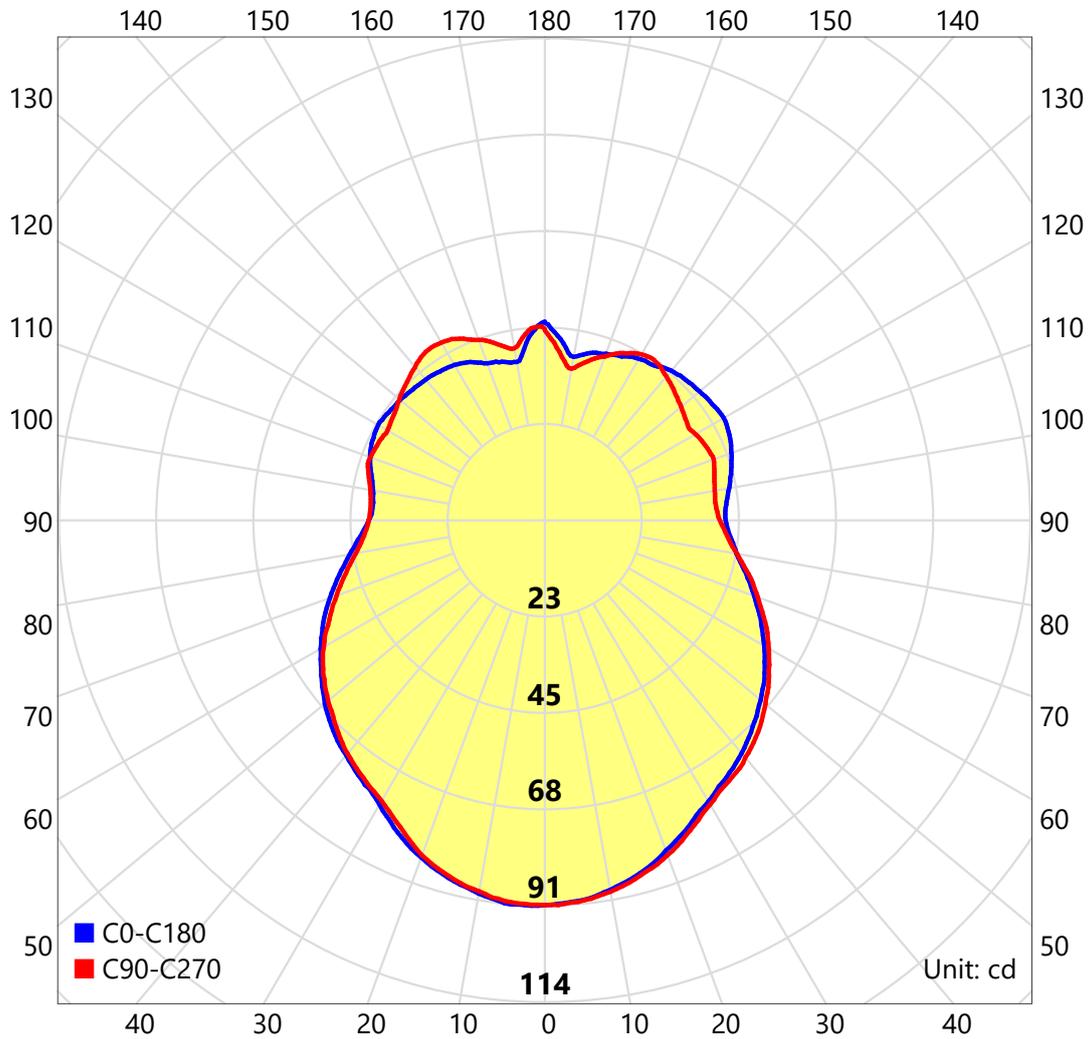
C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-180.0:1.0

Temperature : 23.0°C

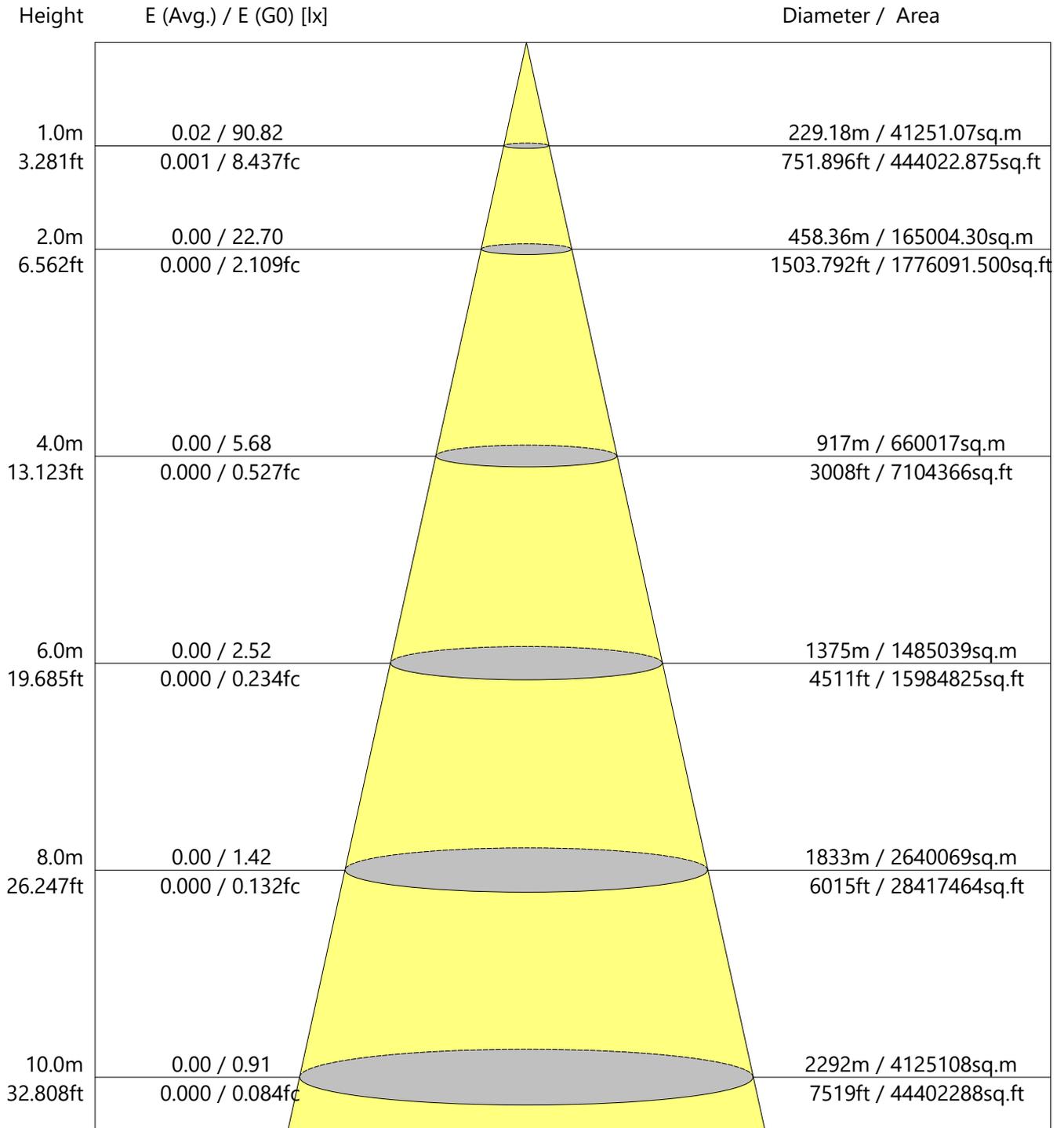
Humidity : 75.0%

Review By :

## Light Distribution Curve



## Average Illuminance Effective Figure



Beam Angle: 179° Flux Out: 655.46lm

## Zonal Flux

Gamma °	I <sub>mean</sub> cd	Zonal Flux I <sub>m</sub>	Sum Zonal Flux I <sub>m</sub>	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	90.8	0.1	0.1	0.01	0.01
1.0-2.0	90.8	0.3	0.3	0.04	0.05
2.0-3.0	90.7	0.4	0.8	0.07	0.12
3.0-4.0	90.6	0.6	1.4	0.09	0.21
4.0-5.0	90.4	0.8	2.2	0.12	0.33
5.0-6.0	90.2	0.9	3.1	0.14	0.48
6.0-7.0	90.0	1.1	4.2	0.17	0.65
7.0-8.0	89.7	1.3	5.5	0.20	0.84
8.0-9.0	89.4	1.4	7.0	0.22	1.06
9.0-10.0	89.0	1.6	8.6	0.25	1.31
10.0-11.0	88.7	1.8	10.3	0.27	1.58
11.0-12.0	88.3	1.9	12.3	0.29	1.87
12.0-13.0	87.9	2.1	14.4	0.32	2.19
13.0-14.0	87.5	2.2	16.6	0.34	2.53
14.0-15.0	87.0	2.4	19.0	0.36	2.90
15.0-16.0	86.5	2.5	21.5	0.39	3.28
16.0-17.0	86.0	2.7	24.2	0.41	3.69
17.0-18.0	85.4	2.8	27.0	0.43	4.12
18.0-19.0	84.9	3.0	30.0	0.45	4.57
19.0-20.0	84.2	3.1	33.1	0.47	5.04
20.0-21.0	83.6	3.2	36.3	0.49	5.53
21.0-22.0	82.9	3.3	39.6	0.51	6.04
22.0-23.0	82.2	3.5	43.1	0.53	6.57
23.0-24.0	81.5	3.6	46.6	0.54	7.11
24.0-25.0	80.8	3.7	50.3	0.56	7.67
25.0-26.0	80.1	3.8	54.1	0.58	8.25
26.0-27.0	79.3	3.9	58.0	0.59	8.84
27.0-28.0	78.7	4.0	61.9	0.61	9.45
28.0-29.0	78.0	4.1	66.0	0.62	10.07
29.0-30.0	77.4	4.2	70.2	0.64	10.71
30.0-31.0	76.8	4.3	74.5	0.65	11.36
31.0-32.0	76.2	4.4	78.8	0.67	12.03
32.0-33.0	75.7	4.5	83.3	0.68	12.71
33.0-34.0	75.2	4.6	87.9	0.69	13.40
34.0-35.0	74.8	4.6	92.5	0.71	14.11
35.0-36.0	74.3	4.7	97.2	0.72	14.83
36.0-37.0	73.9	4.8	102.0	0.74	15.57
37.0-38.0	73.4	4.9	107.0	0.75	16.32
38.0-39.0	73.0	5.0	111.9	0.76	17.08
39.0-40.0	72.5	5.1	117.0	0.77	17.85

Test Type : Type C      Test Distance : 6.119 m  
 Test Device : Lisun LSG-1700B  
 Test Lab :  
 Test By : P. Nellemose

C Plane (°): 0.0-360.0:45.0    γ (°): 0.0-180.0:1.0  
 Temperature : 23.0°C      Humidity : 75.0%  
 Review By :

## Zonal Flux

Gamma °	lmean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	72.0	5.1	122.1	0.78	18.63
41.0-42.0	71.5	5.2	127.3	0.79	19.42
42.0-43.0	71.0	5.3	132.6	0.80	20.23
43.0-44.0	70.5	5.3	137.9	0.81	21.04
44.0-45.0	69.9	5.4	143.3	0.82	21.86
45.0-46.0	69.4	5.4	148.7	0.83	22.68
46.0-47.0	68.8	5.5	154.2	0.83	23.52
47.0-48.0	68.2	5.5	159.7	0.84	24.36
48.0-49.0	67.6	5.5	165.2	0.85	25.21
49.0-50.0	67.0	5.6	170.8	0.85	26.06
50.0-51.0	66.4	5.6	176.4	0.86	26.92
51.0-52.0	65.7	5.6	182.1	0.86	27.78
52.0-53.0	65.1	5.7	187.7	0.86	28.64
53.0-54.0	64.4	5.7	193.4	0.87	29.51
54.0-55.0	63.8	5.7	199.1	0.87	30.38
55.0-56.0	63.1	5.7	204.8	0.87	31.24
56.0-57.0	62.4	5.7	210.5	0.87	32.12
57.0-58.0	61.7	5.7	216.2	0.87	32.99
58.0-59.0	61.0	5.7	221.9	0.87	33.86
59.0-60.0	60.3	5.7	227.6	0.87	34.73
60.0-61.0	59.6	5.7	233.3	0.87	35.59
61.0-62.0	58.9	5.7	239.0	0.87	36.46
62.0-63.0	58.2	5.7	244.6	0.86	37.32
63.0-64.0	57.5	5.6	250.3	0.86	38.18
64.0-65.0	56.7	5.6	255.9	0.86	39.04
65.0-66.0	56.0	5.6	261.5	0.85	39.89
66.0-67.0	55.2	5.6	267.0	0.85	40.74
67.0-68.0	54.5	5.5	272.5	0.84	41.58
68.0-69.0	53.7	5.5	278.0	0.84	42.42
69.0-70.0	53.0	5.4	283.5	0.83	43.25
70.0-71.0	52.3	5.4	288.9	0.82	44.07
71.0-72.0	51.5	5.4	294.2	0.82	44.89
72.0-73.0	50.8	5.3	299.6	0.81	45.70
73.0-74.0	50.2	5.3	304.8	0.80	46.51
74.0-75.0	49.4	5.2	310.0	0.80	47.30
75.0-76.0	48.8	5.2	315.2	0.79	48.09
76.0-77.0	48.1	5.1	320.4	0.78	48.87
77.0-78.0	47.4	5.1	325.4	0.77	49.65
78.0-79.0	46.8	5.0	330.4	0.77	50.41
79.0-80.0	46.1	5.0	335.4	0.76	51.17

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 Temperature : 23.0°C      Humidity : 75.0%  
 Review By :

## Zonal Flux

Gamma °	lmean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	45.5	4.9	340.3	0.75	51.92
81.0-82.0	44.9	4.9	345.2	0.74	52.67
82.0-83.0	44.4	4.8	350.0	0.74	53.40
83.0-84.0	43.9	4.8	354.8	0.73	54.13
84.0-85.0	43.4	4.7	359.6	0.72	54.86
85.0-86.0	43.0	4.7	364.3	0.72	55.58
86.0-87.0	42.7	4.7	368.9	0.71	56.29
87.0-88.0	42.3	4.6	373.6	0.71	57.00
88.0-89.0	42.0	4.6	378.2	0.70	57.70
89.0-90.0	41.8	4.6	382.8	0.70	58.40
90.0-91.0	41.6	4.6	387.3	0.70	59.09
91.0-92.0	41.4	4.5	391.9	0.69	59.79
92.0-93.0	41.4	4.5	396.4	0.69	60.48
93.0-94.0	41.3	4.5	400.9	0.69	61.17
94.0-95.0	41.3	4.5	405.4	0.69	61.86
95.0-96.0	41.3	4.5	410.0	0.69	62.55
96.0-97.0	41.4	4.5	414.5	0.69	63.23
97.0-98.0	41.5	4.5	419.0	0.69	63.92
98.0-99.0	41.6	4.5	423.5	0.69	64.61
99.0-100.0	41.7	4.5	428.0	0.69	65.30
100.0-101.0	41.9	4.5	432.5	0.69	65.99
101.0-102.0	42.1	4.5	437.0	0.69	66.68
102.0-103.0	42.3	4.5	441.6	0.69	67.37
103.0-104.0	42.5	4.5	446.1	0.69	68.06
104.0-105.0	42.7	4.5	450.6	0.69	68.75
105.0-106.0	42.9	4.5	455.2	0.69	69.44
106.0-107.0	43.2	4.5	459.7	0.69	70.13
107.0-108.0	43.4	4.5	464.2	0.69	70.83
108.0-109.0	43.6	4.5	468.8	0.69	71.52
109.0-110.0	43.8	4.5	473.3	0.69	72.21
110.0-111.0	43.9	4.5	477.8	0.69	72.90
111.0-112.0	44.1	4.5	482.3	0.69	73.58
112.0-113.0	44.2	4.5	486.8	0.68	74.27
113.0-114.0	44.3	4.5	491.2	0.68	74.95
114.0-115.0	44.4	4.4	495.7	0.68	75.62
115.0-116.0	44.5	4.4	500.1	0.67	76.29
116.0-117.0	44.6	4.4	504.4	0.67	76.96
117.0-118.0	44.7	4.3	508.8	0.66	77.63
118.0-119.0	44.8	4.3	513.1	0.66	78.28
119.0-120.0	44.8	4.3	517.4	0.65	78.94

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 Temperature : 23.0°C      Humidity : 75.0%  
 Review By :

## Zonal Flux

Gamma °	I <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	44.9	4.2	521.6	0.65	79.58
121.0-122.0	45.0	4.2	525.8	0.64	80.23
122.0-123.0	45.0	4.2	530.0	0.64	80.86
123.0-124.0	45.1	4.1	534.1	0.63	81.49
124.0-125.0	45.2	4.1	538.2	0.62	82.11
125.0-126.0	45.2	4.0	542.2	0.62	82.73
126.0-127.0	45.3	4.0	546.2	0.61	83.34
127.0-128.0	45.4	4.0	550.2	0.60	83.94
128.0-129.0	45.5	3.9	554.1	0.60	84.54
129.0-130.0	45.6	3.9	558.0	0.59	85.13
130.0-131.0	45.7	3.8	561.8	0.58	85.71
131.0-132.0	45.7	3.8	565.5	0.57	86.28
132.0-133.0	45.7	3.7	569.2	0.56	86.84
133.0-134.0	45.7	3.6	572.9	0.55	87.40
134.0-135.0	45.6	3.6	576.4	0.54	87.94
135.0-136.0	45.4	3.5	579.9	0.53	88.47
136.0-137.0	45.2	3.4	583.3	0.52	89.00
137.0-138.0	45.0	3.3	586.7	0.51	89.50
138.0-139.0	44.8	3.3	589.9	0.50	90.00
139.0-140.0	44.6	3.2	593.1	0.48	90.48
140.0-141.0	44.4	3.1	596.2	0.47	90.96
141.0-142.0	44.1	3.0	599.2	0.46	91.42
142.0-143.0	43.9	2.9	602.1	0.45	91.86
143.0-144.0	43.7	2.9	605.0	0.43	92.30
144.0-145.0	43.5	2.8	607.7	0.42	92.72
145.0-146.0	43.4	2.7	610.4	0.41	93.13
146.0-147.0	43.3	2.6	613.1	0.40	93.53
147.0-148.0	43.3	2.5	615.6	0.39	93.92
148.0-149.0	43.2	2.5	618.1	0.38	94.30
149.0-150.0	43.1	2.4	620.5	0.37	94.66
150.0-151.0	43.0	2.3	622.8	0.35	95.02
151.0-152.0	43.0	2.2	625.1	0.34	95.36
152.0-153.0	42.9	2.2	627.2	0.33	95.69
153.0-154.0	42.8	2.1	629.3	0.32	96.01
154.0-155.0	42.7	2.0	631.3	0.31	96.32
155.0-156.0	42.5	1.9	633.3	0.30	96.62
156.0-157.0	42.4	1.9	635.1	0.28	96.90
157.0-158.0	42.2	1.8	636.9	0.27	97.17
158.0-159.0	42.0	1.7	638.6	0.26	97.43
159.0-160.0	41.8	1.6	640.2	0.24	97.67

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 Temperature : 23.0°C      Humidity : 75.0%  
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## Zonal Flux

Gamma °	I <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	41.5	1.5	641.7	0.23	97.90
161.0-162.0	41.3	1.4	643.1	0.22	98.12
162.0-163.0	41.1	1.4	644.5	0.21	98.33
163.0-164.0	40.8	1.3	645.8	0.19	98.52
164.0-165.0	40.4	1.2	647.0	0.18	98.70
165.0-166.0	40.0	1.1	648.1	0.17	98.87
166.0-167.0	39.6	1.0	649.1	0.15	99.03
167.0-168.0	39.2	0.9	650.0	0.14	99.17
168.0-169.0	38.8	0.8	650.8	0.13	99.30
169.0-170.0	38.5	0.8	651.6	0.12	99.41
170.0-171.0	38.3	0.7	652.3	0.11	99.52
171.0-172.0	38.6	0.6	652.9	0.10	99.62
172.0-173.0	39.3	0.6	653.5	0.09	99.70
173.0-174.0	40.2	0.5	654.0	0.08	99.78
174.0-175.0	41.1	0.4	654.4	0.07	99.84
175.0-176.0	42.0	0.4	654.8	0.06	99.90
176.0-177.0	42.8	0.3	655.1	0.04	99.94
177.0-178.0	43.5	0.2	655.3	0.03	99.97
178.0-179.0	44.1	0.1	655.4	0.02	99.99
179.0-180.0	44.5	0.0	655.5	0.01	100.00