

PHOTOMETRIC RESULTS

Name:	APL14-DS-19_4000K_2000lm		
Type:	LED PENDANT LIGHT	Diameter:	351 mm
Luminaire:	AL.Die-casting, AL.WIDE EMBOSS REF. (AL.108-55D HJ COATING)	Length:	0 mm
Test no.:	LT-2024-09-06-T01	Width	0 mm
Lamp type:	LED20W, 500mA, 3000K, CRI90	Height:	364 mm
No. of lamps:	1	Power:	19.77 W
Lamp flux:	2177.00 lm	Operator:	ASY
Date:	2024-09-06 PM 2:55:10	LOR:	85.0 %
Comment:	LVED PRO 30W/ 220-240/ 700CS, 25-42VDC, MAX29.4W, 500mA		

Intensity [cd/klm] APL14-DS-19_4000K_2000lm / C-Plane measurement

[illegible]

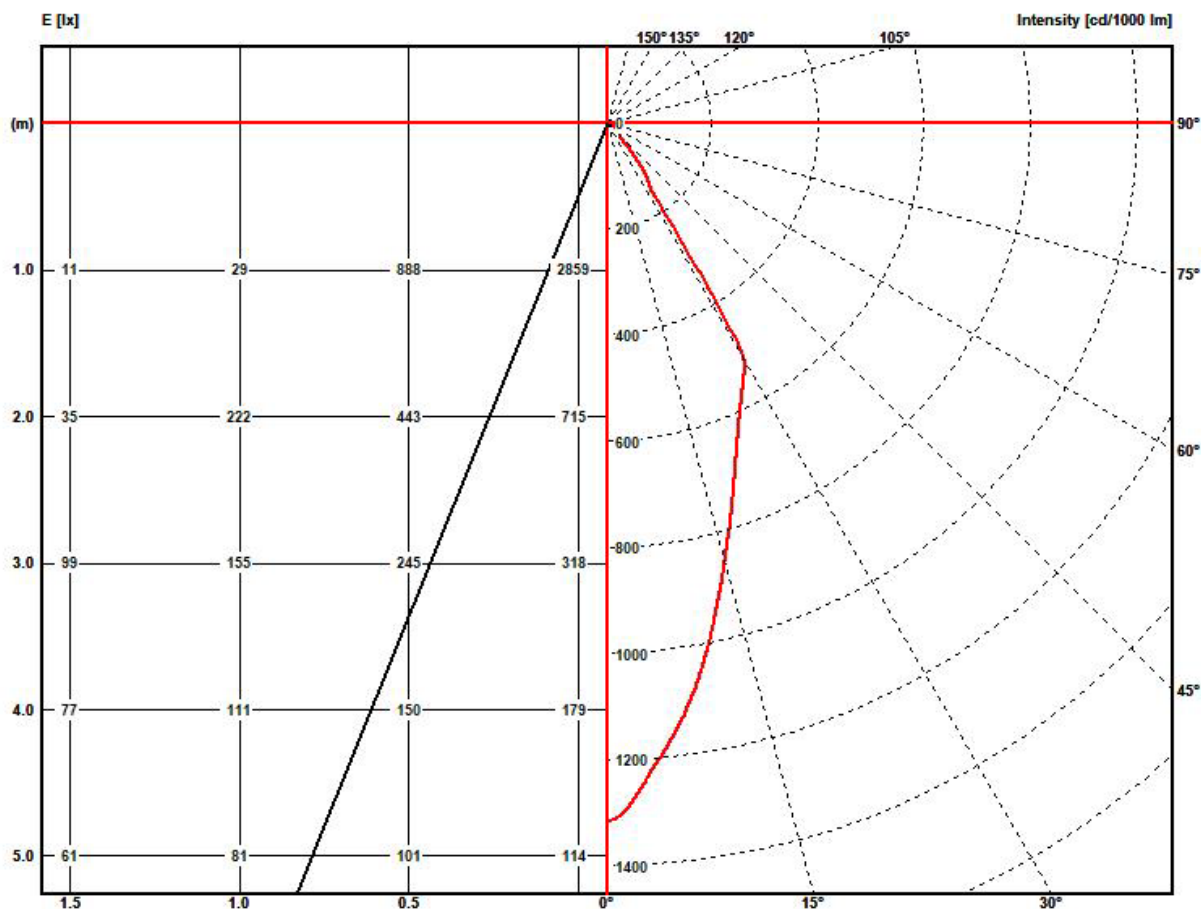
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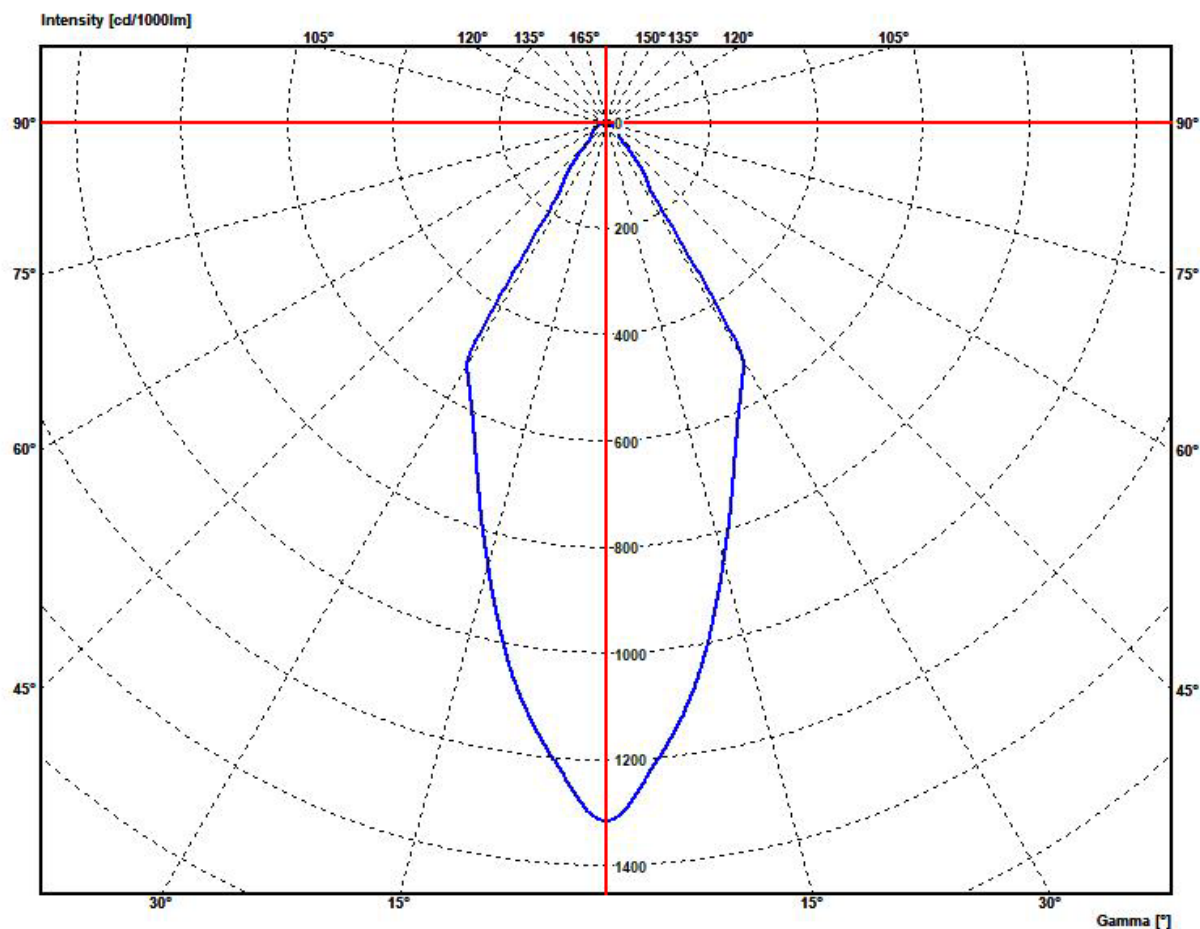
Illuminance and Intensity diagram APL14-DS-19_4000K_2000lm / C-Plane measurement



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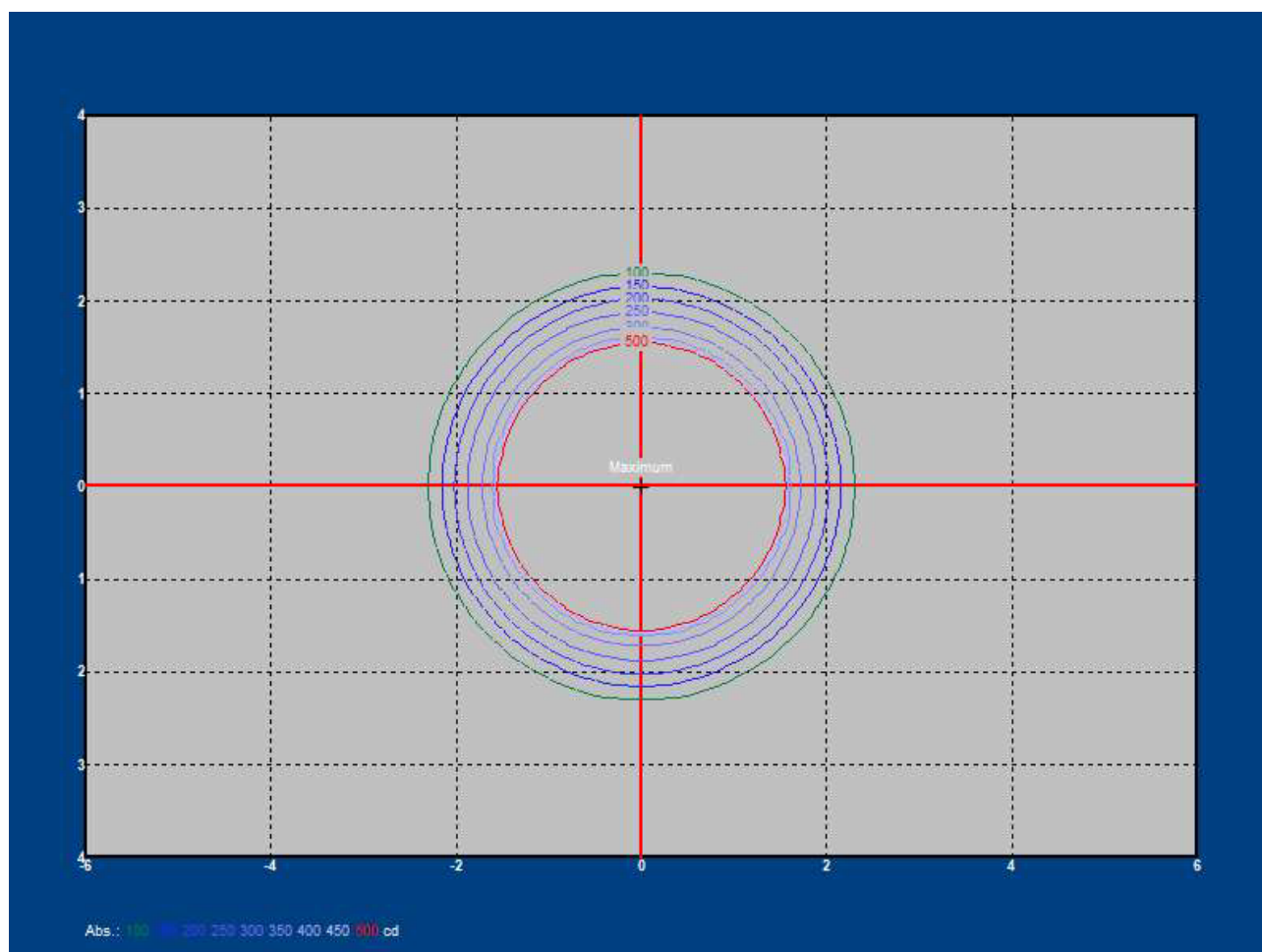
Polar diagram APL14-DS-19_4000K_2000lm / C-Plane measurement



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Isoline diagram APL14-DS-19_4000K_2000lm / C-Plane measurement



Luminaire mounting height above ground: 2.4 m

Luminaire rotation angle: 0 °

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LiTG Utilization factors

Ceiling	70	80	80	50	50	80	80	80	50	50	30	0
Wall	50	50	30	50	30	80	50	30	50	30	30	0
Working plane	20	30	30	30	30	10	10	10	10	10	10	0
Roomindices	Utilization coefficients for ceiling mounted luminaires											
0.6	56	57	53	57	52	66	55	52	55	52	51	48
0.8	63	64	59	63	59	72	62	58	61	58	57	54
1	67	69	64	68	63	75	66	62	65	61	61	58
1.25	73	76	71	74	70	80	72	68	70	68	67	64
1.5	76	80	74	77	72	81	74	71	73	70	69	66
2	80	85	80	81	77	84	77	74	76	73	73	70
2.5	82	88	83	83	79	85	80	77	78	75	75	71
3	85	91	87	85	82	86	81	79	79	77	76	73
4	86	94	89	87	84	87	83	80	80	78	77	74
5	88	96	92	88	86	88	84	81	81	79	78	75

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Wall	50	50	30	50	30	80	50	30	50	30	30	0
Working plane	20	30	30	30	30	10	10	10	10	10	10	0
Roomindices	Utilization coefficients for pendant mounted luminaires											
0.6	59	61	56	58	54	69	58	54	56	53	52	48
0.8	66	69	63	65	61	75	65	61	62	59	58	54
1	70	74	69	70	66	78	69	65	66	63	62	58
1.25	77	82	76	76	73	82	75	72	72	69	68	64
1.5	79	85	80	79	75	83	77	74	74	72	70	66
2	84	91	86	83	80	86	81	78	77	76	74	70
2.5	86	94	90	86	83	87	83	81	79	78	76	71
3	88	97	93	88	85	88	85	83	81	80	77	73
4	90	99	96	89	87	88	86	84	82	80	78	74
5	91	101	99	91	89	89	87	86	83	82	79	75

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UGR Unified Glare Ratios

Ceiling reflectance		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall reflectance		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Floor cavity reflectance		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimension		Viewed crosswise					Viewed endwise				
2H	2H	4.0	5.1	4.4	5.4	5.7	4.0	5.1	4.4	5.4	5.7
2H	3H	4.5	5.4	4.9	5.8	6.1	4.5	5.4	4.9	5.8	6.1
2H	4H	4.7	5.5	5.1	5.9	6.3	4.7	5.5	5.1	5.9	6.3
2H	6H	4.8	5.6	5.2	6.0	6.4	4.8	5.6	5.2	6.0	6.4
2H	8H	4.8	5.6	5.2	5.9	6.3	4.8	5.6	5.2	5.9	6.3
2H	12H	4.8	5.5	5.2	5.9	6.3	4.8	5.5	5.2	5.9	6.3
4H	2H	4.1	4.9	4.5	5.3	5.6	4.1	4.9	4.5	5.3	5.6
4H	3H	4.7	5.4	5.1	5.8	6.2	4.7	5.4	5.1	5.8	6.2
4H	4H	5.0	5.6	5.4	6.0	6.5	5.0	5.6	5.4	6.0	6.5
4H	6H	5.1	5.7	5.6	6.1	6.6	5.1	5.7	5.6	6.1	6.6
4H	8H	5.2	5.7	5.6	6.1	6.6	5.2	5.7	5.6	6.1	6.6
4H	12H	5.2	5.7	5.7	6.1	6.6	5.2	5.7	5.7	6.1	6.6
8H	4H	4.9	5.5	5.4	5.9	6.4	4.9	5.5	5.4	5.9	6.4
8H	6H	5.1	5.6	5.6	6.0	6.6	5.1	5.6	5.6	6.0	6.6
8H	8H	5.3	5.6	5.8	6.1	6.6	5.3	5.6	5.8	6.1	6.6
8H	12H	5.3	5.6	5.8	6.1	6.6	5.3	5.6	5.8	6.1	6.6
12H	4H	4.9	5.4	5.4	5.8	6.4	4.9	5.4	5.4	5.8	6.4
12H	6H	5.2	5.5	5.7	6.0	6.5	5.2	5.5	5.7	6.0	6.5
12H	8H	5.2	5.6	5.8	6.1	6.6	5.2	5.6	5.8	6.1	6.6

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Zonal flux APL14-DS-19_4000K_2000lm / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
0.0	1313.5	1313.5	1313.5	0.68	0.68	0.03	0.03
1.0	1304.2	1304.2	1304.2	5.43	6.12	0.25	0.28
2.0	1281.3	1281.3	1281.3	10.68	16.79	0.49	0.77
3.0	1251.0	1251.0	1251.0	15.63	32.42	0.72	1.49
4.0	1219.8	1219.8	1219.8	20.31	52.74	0.93	2.42
5.0	1191.9	1191.9	1191.9	24.80	77.54	1.14	3.56
6.0	1163.8	1163.8	1163.8	29.04	106.58	1.33	4.90
7.0	1135.1	1135.1	1135.1	33.02	139.60	1.52	6.41
8.0	1105.0	1105.0	1105.0	36.71	176.32	1.69	8.10
9.0	1072.6	1072.6	1072.6	40.06	216.37	1.84	9.94
10.0	1037.8	1037.8	1037.8	43.02	259.39	1.98	11.92
11.0	1001.4	1001.4	1001.4	45.61	305.01	2.10	14.01
12.0	964.4	964.4	964.4	47.87	352.87	2.20	16.21
13.0	927.7	927.7	927.7	49.82	402.70	2.29	18.50
14.0	892.2	892.2	892.2	51.53	454.22	2.37	20.86
15.0	856.2	856.2	856.2	52.90	507.12	2.43	23.29
16.0	823.2	823.2	823.2	54.17	561.29	2.49	25.78
17.0	792.4	792.4	792.4	55.31	616.60	2.54	28.32
18.0	761.7	761.7	761.7	56.19	672.80	2.58	30.90
19.0	732.7	732.7	732.7	56.95	729.74	2.62	33.52
20.0	704.5	704.5	704.5	57.52	787.26	2.64	36.16
21.0	678.5	678.5	678.5	58.05	845.31	2.67	38.83
22.0	655.1	655.1	655.1	58.59	903.89	2.69	41.52
23.0	632.6	632.6	632.6	59.01	962.91	2.71	44.23
24.0	613.0	613.0	613.0	59.52	1022.43	2.73	46.96
25.0	594.7	594.7	594.7	60.00	1082.43	2.76	49.72
26.0	578.6	578.6	578.6	60.55	1142.98	2.78	52.50
27.0	563.1	563.1	563.1	61.03	1204.01	2.80	55.31
28.0	548.6	548.6	548.6	61.49	1265.50	2.82	58.13
29.0	535.0	535.0	535.0	61.92	1327.42	2.84	60.97

Zonal flux APL14-DS-19_4000K_2000lm / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
30.0	519.8	519.8	519.8	62.05	1389.47	2.85	63.82
31.0	465.4	465.4	465.4	57.22	1446.69	2.63	66.45
32.0	313.9	313.9	313.9	39.71	1486.40	1.82	68.28
33.0	186.3	186.3	186.3	24.22	1510.62	1.11	69.39
34.0	152.1	152.1	152.1	20.31	1530.93	0.93	70.32
35.0	142.4	142.4	142.4	19.49	1550.42	0.90	71.22
36.0	133.9	133.9	133.9	18.79	1569.21	0.86	72.08
37.0	125.2	125.2	125.2	17.99	1587.20	0.83	72.91
38.0	115.5	115.5	115.5	16.97	1604.17	0.78	73.69
39.0	104.7	104.7	104.7	15.73	1619.90	0.72	74.41
40.0	92.9	92.9	92.9	14.25	1634.15	0.65	75.06
41.0	80.6	80.6	80.6	12.62	1646.77	0.58	75.64
42.0	67.4	67.4	67.4	10.77	1657.54	0.49	76.14
43.0	54.6	54.6	54.6	8.88	1666.42	0.41	76.55
44.0	43.3	43.3	43.3	7.18	1673.61	0.33	76.88
45.0	37.1	37.1	37.1	6.26	1679.86	0.29	77.16
46.0	35.1	35.1	35.1	6.03	1685.89	0.28	77.44
47.0	34.5	34.5	34.5	6.03	1691.92	0.28	77.72
48.0	34.0	34.0	34.0	6.03	1697.95	0.28	78.00
49.0	33.5	33.5	33.5	6.04	1703.99	0.28	78.27
50.0	33.0	33.0	33.0	6.03	1710.02	0.28	78.55
51.0	32.5	32.5	32.5	6.02	1716.05	0.28	78.83
52.0	31.9	31.9	31.9	6.01	1722.05	0.28	79.10
53.0	31.4	31.4	31.4	5.98	1728.04	0.27	79.38
54.0	30.8	30.8	30.8	5.94	1733.98	0.27	79.65
55.0	30.1	30.1	30.1	5.89	1739.86	0.27	79.92
56.0	29.4	29.4	29.4	5.82	1745.69	0.27	80.19
57.0	28.7	28.7	28.7	5.75	1751.44	0.26	80.45
58.0	28.0	28.0	28.0	5.67	1757.11	0.26	80.71
59.0	27.3	27.3	27.3	5.58	1762.70	0.26	80.97
60.0	26.4	26.4	26.4	5.47	1768.16	0.25	81.22
61.0	25.7	25.7	25.7	5.37	1773.53	0.25	81.47
62.0	24.8	24.8	24.8	5.23	1778.76	0.24	81.71
63.0	23.9	23.9	23.9	5.09	1783.84	0.23	81.94
64.0	22.9	22.9	22.9	4.92	1788.77	0.23	82.17
65.0	21.9	21.9	21.9	4.75	1793.51	0.22	82.38
66.0	20.9	20.9	20.9	4.56	1798.07	0.21	82.59
67.0	19.8	19.8	19.8	4.36	1802.44	0.20	82.79
68.0	18.8	18.8	18.8	4.15	1806.59	0.19	82.99
69.0	17.8	17.8	17.8	3.96	1810.56	0.18	83.17
70.0	16.7	16.7	16.7	3.74	1814.30	0.17	83.34
71.0	15.7	15.7	15.7	3.54	1817.84	0.16	83.50
72.0	14.7	14.7	14.7	3.34	1821.18	0.15	83.66

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73.0	13.7	13.7	13.7	3.13	1824.32	0.14	83.80
74.0	12.8	12.8	12.8	2.94	1827.25	0.13	83.93
75.0	12.0	12.0	12.0	2.76	1830.01	0.13	84.06
76.0	11.1	11.1	11.1	2.58	1832.59	0.12	84.18
77.0	10.3	10.3	10.3	2.38	1834.98	0.11	84.29
78.0	9.4	9.4	9.4	2.20	1837.18	0.10	84.39
79.0	8.7	8.7	8.7	2.03	1839.21	0.09	84.48
80.0	7.9	7.9	7.9	1.86	1841.08	0.09	84.57
81.0	7.2	7.2	7.2	1.70	1842.78	0.08	84.65
82.0	6.5	6.5	6.5	1.53	1844.31	0.07	84.72
83.0	5.8	5.8	5.8	1.37	1845.68	0.06	84.78
84.0	5.2	5.2	5.2	1.23	1846.91	0.06	84.84
85.0	4.5	4.5	4.5	1.07	1847.98	0.05	84.89
86.0	3.9	3.9	3.9	0.93	1848.92	0.04	84.93
87.0	3.3	3.3	3.3	0.79	1849.70	0.04	84.97
88.0	2.7	2.7	2.7	0.64	1850.34	0.03	85.00
89.0	1.7	1.7	1.7	0.41	1850.76	0.02	85.01
90.0	0.6	0.6	0.6	0.15	1850.90	0.01	85.02