

Luminaire

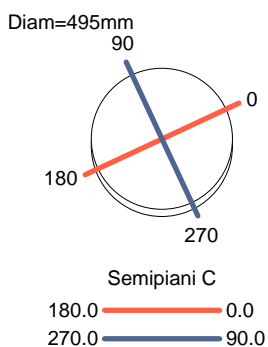
Code 830LDMEWW311
Name Lamp de Marseille Led 2x9W

Measurem.

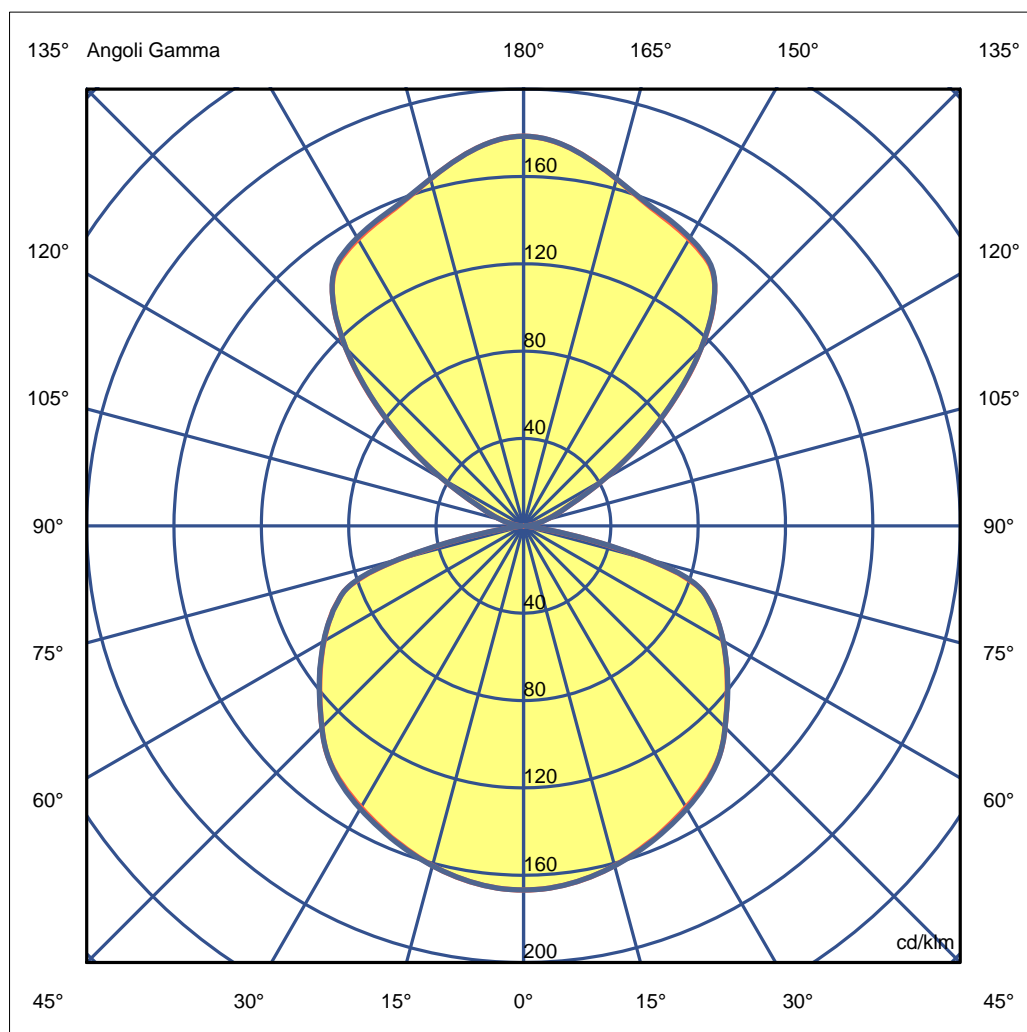
Code Idm112018
Name Lamp de Marseille Led 2x9W

Luminaire Flux	1368.30 lm	Luminaire Power	18.00 W	Efficacy	76.02 lm/W	Efficiency	100.00%
Lamps Flux	1368.30 lm	Maximum value	178.49 cd/klm	Position	C=0.00 G=180.00	CG	Double Symmetrical
Round Luminaire		Diam.	495 mm	Height	370 mm		
Round Luminous Area		Diam.	495 mm	Height	185 mm		
Horizontal Luminous Area		0.192442 m2		Emitting area on Plane 180°		0.091575 m2	
Emitting area on Plane 0°		0.091575 m2		Emitting area on Plane 270°		0.091575 m2	
Emitting area on Plane 90°		0.091575 m2		Glare area at 76°		0.135411 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		27-01-2000		Maximum Gamma Angle		180	
Measurement Distance		0.00		Measurement Flux		1368.30 lm	
Operator				Source Voltage [V]		120.00 V	
Temperature		25.00 °C		Source current [A]		120.00 A	
Humidity		60.00 %		Photocell			
Notes							

Line		Code		Luminaire Lamps		Flux [lm]	Pow. [W]	Q.ty
		Led E27		Name		1368.30	18.00	1
				Led E27				
C.I.E.	40 73 96 59 100			D DIN 5040	C21			
F UTE	0.59 G + 0.41 T			B NBN	BZ 5			



ULOR 41.39 %
DLOR 58.62 %
RN 41.39 %



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Measur.

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Lamps Flux	1368.30 lm	Maximum value	178.49 cd/klm	Position	C=0.00 G=180.00	CG Double Symmetrical	

Luminous Intensity Table cd/klm Table 1/3

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00
G 0.0	166.74	166.74	166.74	166.74	166.74	166.74	166.74	166.74	166.74	166.74
G 1.0	166.73	166.71	166.69	166.69	166.70	166.72	166.72	166.71	166.71	166.71
G 2.0	166.64	166.61	166.61	166.61	166.61	166.64	166.64	166.63	166.64	166.63
G 3.0	166.52	166.48	166.47	166.47	166.48	166.49	166.50	166.49	166.50	166.49
G 4.0	166.31	166.28	166.30	166.26	166.28	166.28	166.31	166.31	166.31	166.30
G 5.0	166.07	166.04	166.03	166.03	166.06	166.05	166.06	166.07	166.07	166.05
G 6.0	165.79	165.75	165.74	165.75	165.75	165.76	165.76	165.78	165.78	165.75
G 7.0	165.42	165.38	165.39	165.38	165.38	165.40	165.43	165.43	165.40	165.36
G 8.0	164.99	164.97	165.01	164.96	164.99	165.01	165.03	164.99	165.02	164.97
G 9.0	164.51	164.52	164.55	164.54	164.57	164.57	164.58	164.55	164.57	164.53
G 10.0	164.09	164.03	164.05	164.06	164.06	164.10	164.09	164.05	164.06	164.04
G 11.0	163.53	163.49	163.55	163.53	163.57	163.53	163.57	163.53	163.55	163.52
G 12.0	162.97	162.98	163.00	163.02	163.09	163.02	163.03	162.99	162.99	162.93
G 13.0	162.40	162.41	162.42	162.49	162.53	162.50	162.46	162.45	162.42	162.36
G 14.0	161.81	161.80	161.81	161.89	161.86	161.87	161.85	161.82	161.81	161.79
G 15.0	161.16	161.14	161.18	161.19	161.22	161.18	161.22	161.16	161.17	161.14
G 16.0	160.41	160.41	160.51	160.46	160.52	160.47	160.51	160.46	160.52	160.47
G 17.0	159.60	159.71	159.75	159.74	159.80	159.78	159.85	159.79	159.83	159.77
G 18.0	158.83	158.93	158.97	159.02	159.06	159.06	159.15	159.13	159.15	159.16
G 19.0	157.98	158.16	158.23	158.22	158.37	158.37	158.43	158.37	158.43	158.39
G 20.0	157.17	157.34	157.47	157.50	157.63	157.67	157.73	157.61	157.69	157.62
G 21.0	156.36	156.59	156.65	156.75	156.86	156.91	156.98	156.90	156.87	156.83
G 22.0	155.64	155.86	155.91	155.97	156.06	156.10	156.16	156.11	156.13	156.09
G 23.0	154.91	155.02	155.12	155.12	155.26	155.27	155.39	155.32	155.39	155.34
G 24.0	154.00	154.19	154.30	154.36	154.46	154.47	154.58	154.52	154.58	154.55
G 25.0	153.17	153.44	153.46	153.55	153.63	153.65	153.75	153.71	153.72	153.76
G 26.0	152.32	152.58	152.61	152.72	152.82	152.85	152.93	152.89	152.93	152.91
G 27.0	151.43	151.69	151.80	151.90	152.00	152.00	152.06	152.06	152.10	152.04
G 28.0	150.54	150.83	150.90	151.06	151.14	151.19	151.27	151.21	151.22	151.28
G 29.0	149.70	149.98	150.04	150.19	150.32	150.40	150.40	150.38	150.34	150.44
G 30.0	148.77	149.04	149.19	149.29	149.51	149.52	149.54	149.51	149.57	149.52
G 31.0	147.96	148.15	148.28	148.45	148.60	148.65	148.73	148.63	148.70	148.64
G 32.0	147.06	147.31	147.39	147.57	147.71	147.79	147.83	147.78	147.73	147.80
G 33.0	146.24	146.42	146.47	146.64	146.85	146.95	146.92	146.85	146.81	146.86
G 34.0	145.40	145.51	145.61	145.68	145.90	145.96	146.02	145.91	145.90	145.89
G 35.0	144.42	144.54	144.58	144.78	144.88	145.04	144.99	145.00	144.90	144.93
G 36.0	143.47	143.56	143.63	143.78	143.89	144.05	144.00	143.99	143.83	143.93
G 37.0	142.47	142.56	142.56	142.72	142.81	142.90	142.83	142.87	142.69	142.88
G 38.0	141.37	141.35	141.39	141.48	141.59	141.70	141.66	141.63	141.49	141.55
G 39.0	140.16	140.13	140.21	140.26	140.31	140.43	140.39	140.33	140.22	140.39
G 40.0	138.85	138.80	138.80	138.91	138.98	139.12	139.04	138.99	138.80	139.02
G 41.0	137.40	137.40	137.40	137.45	137.52	137.54	137.52	137.45	137.38	137.43
G 42.0	135.93	135.83	135.86	135.89	135.91	135.96	135.91	135.84	135.68	135.80
G 43.0	134.13	134.22	134.16	134.25	134.29	134.32	134.30	134.23	134.09	134.22
G 44.0	132.43	132.59	132.45	132.62	132.52	132.59	132.47	132.55	132.32	132.38
G 45.0	130.46	130.76	130.78	130.68	130.75	130.75	130.67	130.58	130.55	130.57
G 46.0	128.74	128.96	128.95	128.95	128.97	128.88	128.80	128.80	128.73	128.72
G 47.0	126.86	127.26	127.12	127.17	127.20	127.14	127.12	127.02	126.95	126.94
G 48.0	125.11	125.48	125.39	125.46	125.34	125.43	125.31	125.27	125.27	125.34
G 49.0	123.37	123.66	123.67	123.70	123.70	123.62	123.60	123.58	123.60	123.54
G 50.0	121.76	122.00	122.03	122.02	122.03	121.96	122.03	121.88	121.89	121.93
G 51.0	120.04	120.37	120.39	120.41	120.35	120.33	120.31	120.33	120.22	120.42
G 52.0	118.50	118.64	118.68	118.68	118.71	118.70	118.63	118.69	118.62	118.61
G 53.0	116.83	116.94	117.06	117.10	117.00	117.06	116.98	117.04	117.00	117.07
G 54.0	115.19	115.40	115.40	115.44	115.45	115.53	115.49	115.40	115.38	115.37
G 55.0	113.54	113.77	113.76	113.81	113.80	113.86	113.79	113.82	113.70	113.90
G 56.0	111.89	112.15	112.15	112.07	112.12	112.21	112.19	112.16	112.19	112.08
G 57.0	110.27	110.42	110.53	110.55	110.56	110.58	110.54	110.40	110.53	110.47
G 58.0	108.65	108.87	108.87	108.92	108.97	108.97	108.93	108.82	108.85	108.84
G 59.0	107.00	107.33	107.21	107.31	107.29	107.42	107.29	107.32	107.23	107.29
G 60.0	105.46	105.62	105.66	105.70	105.66	105.77	105.73	105.65	105.64	105.63
G 61.0	103.90	103.94	103.97	104.09	104.06	104.09	104.08	104.03	103.96	104.06
G 62.0	102.27	102.47	102.34	102.43	102.42	102.53	102.46	102.42	102.34	102.30
G 63.0	100.53	100.76	100.72	100.80	100.74	100.80	100.69	100.82	100.63	100.75
G 64.0	98.96	98.94	98.94	98.96	98.92	99.01	98.99	99.03	98.90	98.86
G 65.0	97.16	97.29	97.29	97.25	97.26	97.37	97.30	97.16	97.14	97.05
G 66.0	95.51	95.54	95.56	95.58	95.49	95.55	95.49	95.43	95.29	95.42
G 67.0	93.52	93.63	93.57	93.59	93.55	93.64	93.50	93.56	93.33	93.40
G 68.0	91.63	91.66	91.63	91.66	91.58	91.70	91.66	91.46	91.42	91.40
G 69.0	89.54	89.60	89.27	89.74	89.58	89.70	89.61	89.49	89.41	89.40
G 70.0	87.44	86.31	85.93	86.73	86.31	87.26	86.97	87.54	87.10	87.44
G 71.0	84.14	81.85	82.20	82.90	82.86	83.89	83.40	84.18	83.65	84.56
G 72.0	79.35	76.89	76.93	78.08	78.53	79.70	79.23	79.99	78.92	80.01

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Lamps Flux	1368.30 lm	Maximum value	178.49 cd/klm	Position	C=0.00 G=180.00	CG Double Symmetrical	

Luminous Intensity Table cd/klm Table 2/3

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00
G 73.0	74.18	71.59	71.46	72.47	72.43	73.83	73.02	74.82	74.24	74.78
G 74.0	66.74	65.33	64.42	65.89	65.28	66.52	66.21	67.72	66.91	68.09
G 75.0	58.62	57.74	57.53	58.24	57.84	58.89	58.42	59.20	58.58	59.42
G 76.0	49.19	49.82	49.11	49.81	49.49	49.96	49.94	50.15	50.00	49.97
G 77.0	39.95	41.72	40.78	41.67	41.25	41.73	41.47	41.83	41.44	41.51
G 78.0	31.10	33.02	32.94	32.98	32.63	32.80	32.83	32.79	32.75	32.90
G 79.0	23.49	25.68	25.66	25.24	25.34	25.07	24.57	24.73	24.95	24.68
G 80.0	16.33	18.98	19.04	18.85	18.54	18.27	17.94	17.69	18.11	17.75
G 81.0	10.81	14.04	13.86	13.51	13.26	13.04	12.63	12.23	12.30	12.18
G 82.0	6.62	9.86	9.67	9.10	8.95	8.28	8.42	7.72	8.15	7.64
G 83.0	3.94	6.26	6.45	5.84	5.65	4.97	5.37	4.64	5.08	4.49
G 84.0	2.13	3.89	4.14	3.70	3.86	3.43	3.39	2.88	2.76	2.47
G 85.0	1.64	2.32	2.52	2.22	2.39	2.05	2.05	1.86	1.84	1.84
G 86.0	1.25	1.49	1.54	1.48	1.50	1.48	1.44	1.42	1.43	1.40
G 87.0	0.89	1.19	1.19	1.16	1.16	1.12	1.13	1.06	1.08	1.03
G 88.0	0.66	0.95	0.97	0.91	0.93	0.88	0.90	0.83	0.87	0.80
G 89.0	0.46	0.77	0.87	0.77	0.85	0.73	0.84	0.66	0.77	0.60
G 90.0	0.72	1.47	1.57	1.63	1.69	1.75	1.82	1.86	1.87	1.88
G 91.0	0.43	0.63	0.92	0.74	1.01	0.79	1.15	0.89	1.30	0.94
G 92.0	0.71	0.79	0.98	0.92	1.12	0.98	1.17	0.99	1.19	0.96
G 93.0	1.18	1.28	1.29	1.31	1.34	1.34	1.39	1.33	1.35	1.33
G 94.0	1.73	1.84	1.87	1.87	1.88	1.88	1.89	1.89	1.91	1.92
G 95.0	2.31	2.42	2.42	2.45	2.43	2.46	2.43	2.44	2.47	2.50
G 96.0	2.89	3.05	3.06	3.05	3.07	3.10	3.08	3.09	3.09	3.11
G 97.0	3.55	3.68	3.68	3.68	3.72	3.74	3.75	3.73	3.77	3.73
G 98.0	4.29	4.37	4.37	4.45	4.38	4.47	4.44	4.44	4.46	4.46
G 99.0	4.98	5.12	5.13	5.18	5.14	5.18	5.13	5.18	5.17	5.21
G100.0	5.74	5.88	5.91	5.91	5.91	5.91	5.90	5.97	5.97	5.98
G101.0	6.54	6.74	6.76	6.74	6.76	6.73	6.77	6.79	6.79	6.77
G102.0	7.43	7.56	7.56	7.56	7.56	7.56	7.61	7.64	7.61	7.64
G103.0	8.33	8.46	8.50	8.52	8.50	8.53	8.51	8.53	8.54	8.58
G104.0	9.31	9.41	9.42	9.41	9.45	9.40	9.43	9.47	9.48	9.49
G105.0	10.37	10.42	10.42	10.43	10.44	10.45	10.50	10.50	10.47	10.50
G106.0	11.37	11.48	11.47	11.50	11.44	11.59	11.51	11.58	11.51	11.57
G107.0	12.50	12.61	12.61	12.62	12.67	12.67	12.66	12.65	12.63	12.66
G108.0	13.63	13.78	13.80	13.79	13.79	13.80	13.82	13.84	13.85	13.84
G109.0	14.92	15.03	15.02	15.03	15.09	15.01	15.12	15.12	15.09	15.03
G110.0	16.22	16.34	16.33	16.44	16.34	16.48	16.37	16.40	16.40	16.40
G111.0	17.64	17.73	17.84	17.79	17.76	17.79	17.79	17.80	17.76	17.83
G112.0	19.12	19.19	19.18	19.24	19.21	19.20	19.29	19.23	19.28	19.26
G113.0	20.71	20.81	20.88	20.82	20.94	20.81	20.97	20.82	20.91	20.85
G114.0	22.74	22.74	22.89	22.80	23.05	22.90	22.94	22.84	23.02	22.86
G115.0	25.00	25.14	25.33	25.18	25.33	25.22	25.32	25.20	25.21	25.05
G116.0	28.00	28.11	28.07	28.18	28.22	28.02	28.16	27.91	28.18	27.98
G117.0	31.10	31.35	31.37	31.46	31.29	31.56	31.23	31.09	31.17	31.06
G118.0	34.88	34.85	34.89	34.82	34.87	35.00	34.77	34.92	34.69	34.68
G119.0	38.40	38.54	38.46	38.64	38.72	38.45	38.36	38.37	38.27	38.29
G120.0	42.47	42.49	42.72	42.59	42.62	42.49	42.61	42.37	42.46	42.65
G121.0	46.63	46.92	46.78	46.91	46.75	46.91	46.61	46.56	46.57	46.45
G122.0	51.29	51.30	51.09	51.11	51.13	51.18	51.09	50.88	50.66	50.83
G123.0	55.33	55.80	55.74	55.72	55.63	55.49	55.56	55.51	55.45	55.35
G124.0	60.24	60.41	60.20	60.38	60.35	60.06	60.49	60.18	60.07	60.17
G125.0	65.19	65.19	65.32	65.28	65.14	65.26	65.03	65.05	64.86	65.21
G126.0	70.01	70.30	70.14	70.09	70.04	70.04	69.94	69.94	69.74	69.50
G127.0	75.12	75.06	75.13	75.09	75.26	75.05	75.05	74.77	74.84	74.73
G128.0	79.86	80.37	80.29	80.07	80.30	79.92	79.98	80.09	79.62	79.51
G129.0	85.32	85.47	85.49	85.31	85.33	85.32	85.14	85.04	84.65	84.92
G130.0	90.32	90.47	90.35	90.35	90.23	90.32	90.32	90.04	89.85	90.03
G131.0	95.59	95.57	95.54	95.46	95.53	95.36	95.56	95.15	95.18	94.99
G132.0	100.68	100.74	100.74	100.75	100.33	100.50	100.40	100.51	100.13	100.37
G133.0	105.63	105.97	105.49	105.57	105.35	105.68	105.36	105.27	104.80	105.32
G134.0	110.46	110.51	110.54	110.48	110.44	110.29	110.34	110.18	109.92	110.12
G135.0	115.01	115.32	115.05	115.18	115.15	114.88	114.96	114.84	114.89	115.03
G136.0	119.68	119.88	119.81	119.92	119.72	120.08	119.50	119.60	119.49	119.45
G137.0	124.14	124.48	124.16	124.08	124.03	124.12	123.99	123.91	123.71	123.89
G138.0	128.49	128.43	128.34	128.35	128.25	128.34	128.34	127.94	127.95	128.34
G139.0	132.40	132.15	132.36	132.37	132.35	132.20	132.15	132.15	132.12	132.14
G140.0	135.89	136.03	135.84	135.95	135.70	135.99	135.71	135.80	135.54	135.87
G141.0	139.07	139.28	139.15	139.14	138.96	139.28	139.11	139.14	138.91	139.24
G142.0	142.01	142.05	142.04	142.12	141.97	142.12	142.11	142.09	141.98	142.08
G143.0	144.41	144.46	144.19	144.49	144.26	144.61	144.35	144.67	144.36	144.69
G144.0	146.10	146.27	145.99	146.22	146.02	146.42	146.23	146.46	146.23	146.55
G145.0	147.44	147.51	147.48	147.50	147.57	147.76	147.80	147.94	147.83	147.99

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Measurem.

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Luminaire Flux	1368.30 lm	Luminaire Power	18.00 W	Efficacy	76.02 lm/W	Efficiency	100.00%
Lamps Flux	1368.30 lm	Maximum value	178.49 cd/klm	Position	C=0.00 G=180.00	CG	Double Symmetrical

Luminous Intensity Table cd/klm Table 3/3

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00
G146.0	148.50	148.43	148.47	148.48	148.68	148.78	149.03	149.04	149.08	149.10
G147.0	149.30	149.36	149.41	149.41	149.59	149.72	149.97	149.95	150.02	150.01
G148.0	150.14	150.16	150.19	150.21	150.39	150.60	150.80	150.83	150.81	150.89
G149.0	150.91	150.90	150.95	151.01	151.20	151.35	151.63	151.58	151.66	151.65
G150.0	151.64	151.62	151.64	151.69	151.97	152.07	152.36	152.30	152.39	152.35
G151.0	152.32	152.30	152.36	152.43	152.64	152.81	153.04	153.03	153.07	153.09
G152.0	152.95	152.95	153.03	153.09	153.30	153.45	153.72	153.70	153.73	153.73
G153.0	153.59	153.58	153.66	153.74	153.96	154.13	154.40	154.33	154.41	154.37
G154.0	154.23	154.23	154.29	154.34	154.59	154.72	155.00	154.93	155.01	155.01
G155.0	154.83	154.83	154.95	154.99	155.18	155.34	155.56	155.54	155.57	155.60
G156.0	155.43	155.44	155.53	155.57	155.78	155.92	156.13	156.09	156.16	156.17
G157.0	156.15	156.09	156.21	156.22	156.44	156.51	156.77	156.68	156.80	156.77
G158.0	156.86	156.82	157.00	156.95	157.22	157.19	157.46	157.30	157.44	157.42
G159.0	157.71	157.69	157.80	157.83	157.96	158.02	158.22	158.07	158.17	158.17
G160.0	158.69	158.67	158.79	158.76	158.94	158.91	159.14	158.96	159.09	159.07
G161.0	159.76	159.74	159.85	159.76	159.96	159.88	160.11	159.96	160.11	159.91
G162.0	160.89	160.83	160.94	160.87	161.07	161.07	161.14	161.01	161.12	161.11
G163.0	162.03	162.02	162.07	162.05	162.11	162.14	162.27	162.15	162.26	162.20
G164.0	163.16	163.26	163.32	163.19	163.42	163.32	163.47	163.33	163.51	163.28
G165.0	164.48	164.47	164.53	164.45	164.63	164.58	164.69	164.60	164.78	164.66
G166.0	165.79	165.72	165.85	165.75	165.86	165.82	165.94	165.82	165.90	165.92
G167.0	167.01	166.99	167.12	166.98	167.08	167.05	167.20	167.13	167.13	167.14
G168.0	168.25	168.27	168.37	168.27	168.37	168.31	168.48	168.30	168.45	168.35
G169.0	169.57	169.58	169.63	169.59	169.61	169.57	169.71	169.60	169.64	169.53
G170.0	170.92	170.83	170.93	170.83	170.91	170.87	170.98	170.87	170.91	170.92
G171.0	172.15	172.12	172.19	172.08	172.16	172.17	172.24	172.13	172.17	172.08
G172.0	173.35	173.37	173.35	173.30	173.40	173.31	173.43	173.36	173.38	173.25
G173.0	174.43	174.46	174.49	174.43	174.47	174.49	174.53	174.49	174.50	174.41
G174.0	175.47	175.44	175.44	175.46	175.46	175.51	175.51	175.49	175.46	175.50
G175.0	176.25	176.32	176.33	176.31	176.37	176.38	176.44	176.32	176.36	176.33
G176.0	177.06	177.06	177.07	177.05	177.04	177.09	177.10	177.07	177.10	177.07
G177.0	177.65	177.67	177.63	177.66	177.62	177.65	177.68	177.63	177.65	177.69
G178.0	178.10	178.10	178.09	178.09	178.06	178.07	178.10	178.05	178.07	178.12
G179.0	178.36	178.39	178.38	178.37	178.33	178.36	178.38	178.35	178.37	178.38
G180.0	178.49	178.49	178.49	178.49	178.49	178.49	178.49	178.49	178.49	178.49