

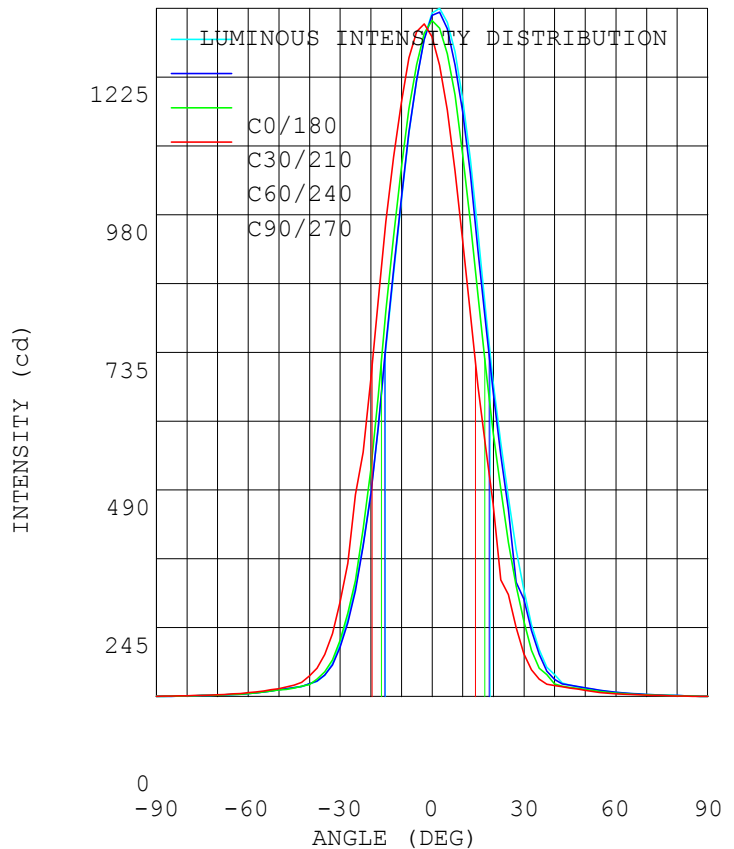
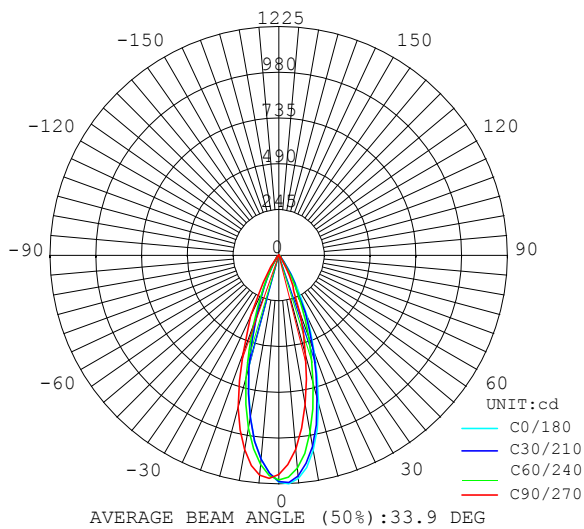
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Ultra Max	Address:	
NAME: MR16 12V 5W COB	TYPE:4000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	1225	S/MH (C0/180)	0.51
MODEL	MR16	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.64
NOMINAL POWER(W)	5	TOTAL FLUX(lm)	449.07	Voltage (V)	12.03
RATED VOLTAGE (V)	12	EFFICIENCY (lm/W)	78.5	Current (A)	0.615
NOMINAL FLUX(lm)	449.1	η_{up} (%)	0.4	Power (W)	5.722
LAMPS QUANTITY	1	η_{down} (%)	99.6	Power Factor (PF)	0.773
TEST VOLTAGE (V)	12.0	Effective Flux (lm)	440.0	EEL	0.143

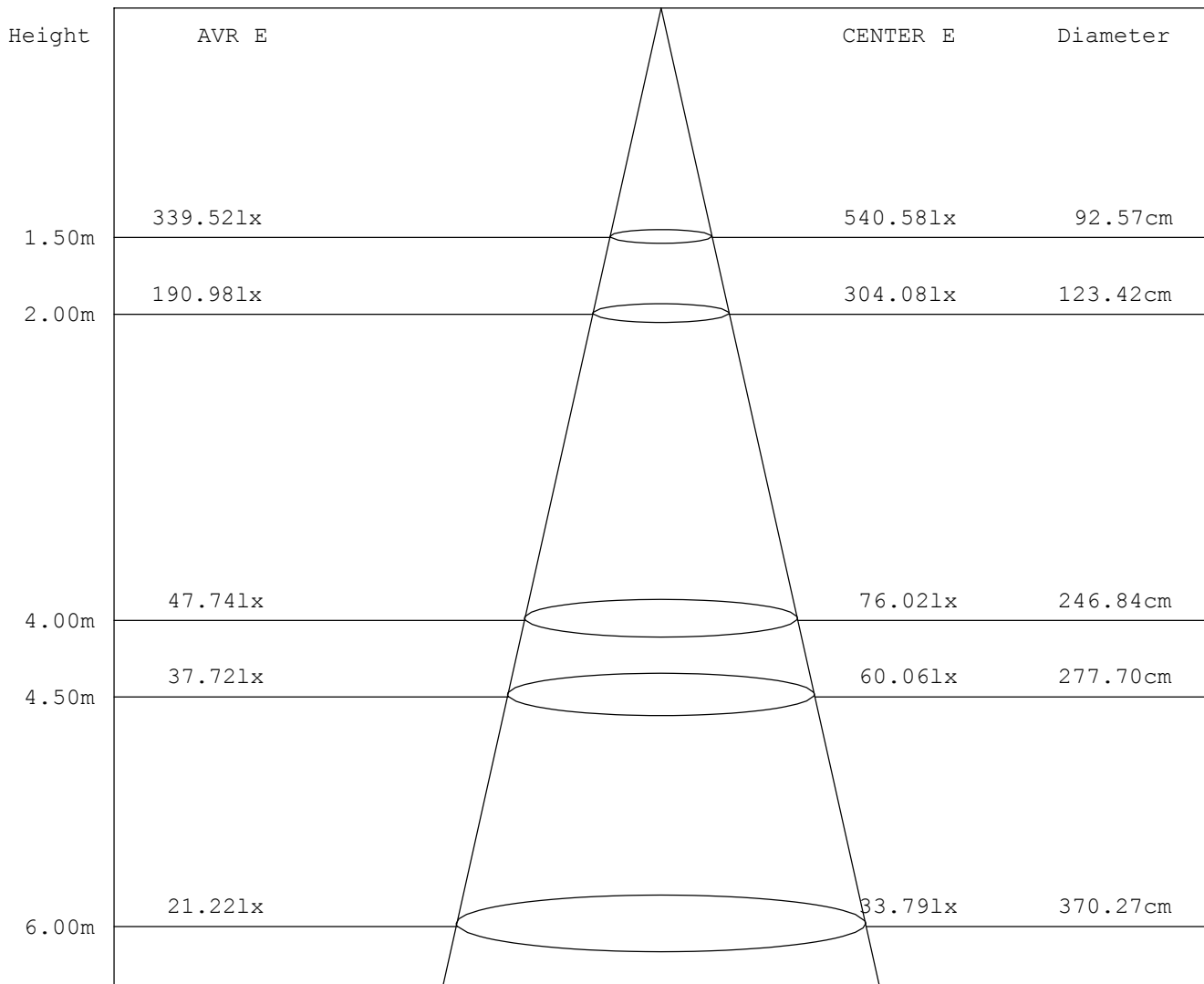
LUMINOUS INTENSITY DISTRIBUTION



AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Ultra Max	Address:	
NAME: MR16 12V 5W COB	TYPE:4000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:34.3deg

ZONAL FLUX DIAGRAM

Report number:

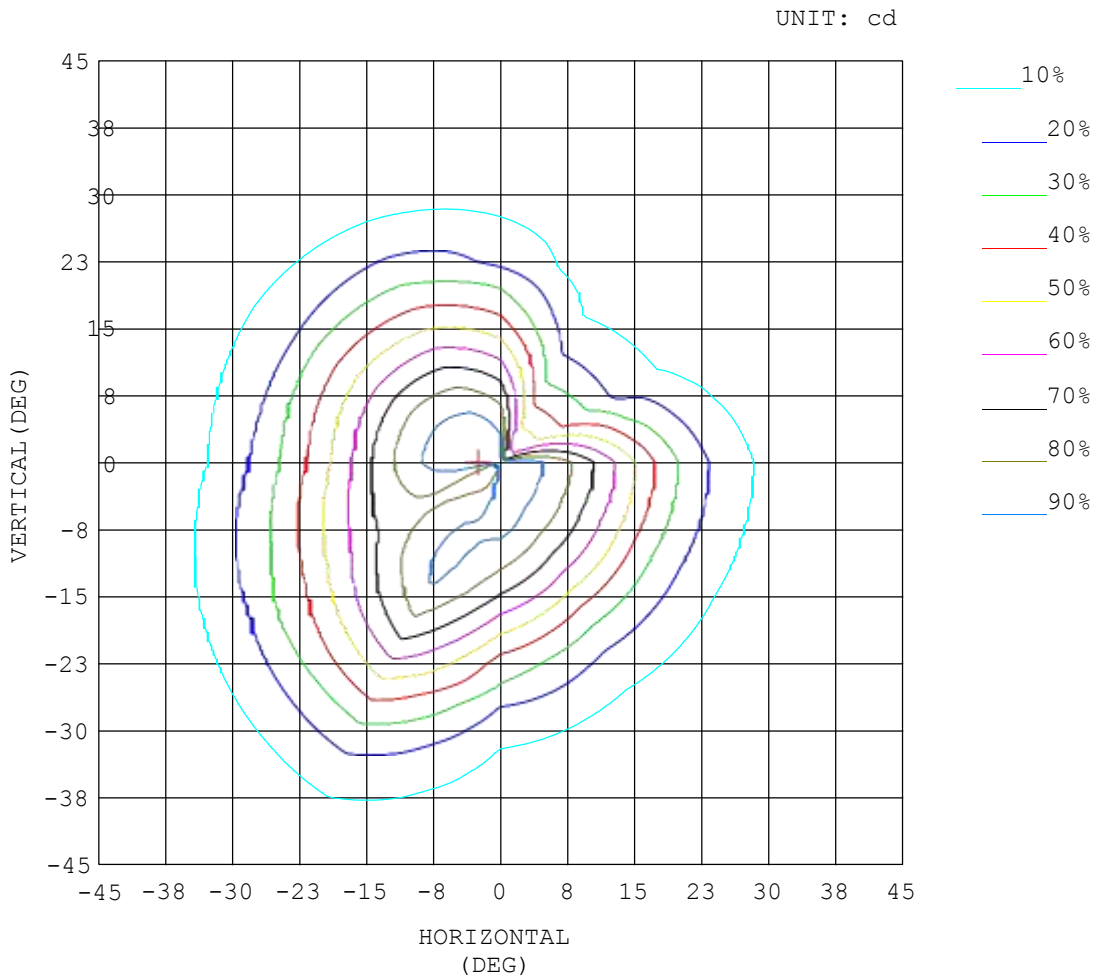
MANUFACTURER: Ultra Max	Address:	
NAME: MR16 12V 5W COB	TYPE:4000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	1097	1111	1183	979.9	1200	1166	1044	599.0	0- 5	24.61	24.61
10.0	880.9	912.7	1056	1046	1063	1003	811.5	391.7	5- 10	65.15	89.77
15.0	618.8	655.4	844.7	1001	825.0	753.4	551.4	210.4	10- 15	85.71	175.4
20.0	363.9	382.4	565.7	839.3	560.6	507.8	343.8	112.5	15- 20	83.71	259.1
25.0	194.9	197.3	358.9	619.7	354.1	303.5	181.2	46.06	20- 25	67.48	326.6
30.0	93.04	94.12	168.2	419.5	189.9	153.7	76.04	21.33	25- 30	46.45	373.1
35.0	38.13	41.16	74.69	237.5	83.33	62.97	31.04	16.69	30- 35	27.79	400.9
40.0	21.01	21.52	36.73	117.4	38.95	26.40	19.75	12.67	35- 40	15.68	416.6
45.0	15.60	15.44	20.06	53.18	20.11	18.17	15.32	8.764	40- 45	9.257	425.8
50.0	12.05	11.80	13.88	24.57	15.21	14.21	10.97	5.845	45- 50	6.134	432.0
55.0	8.105	8.121	10.18	16.86	10.71	10.00	7.212	4.015	50- 55	4.547	436.5
60.0	5.465	5.535	6.845	12.65	7.280	6.893	4.947	2.879	55- 60	3.397	439.9
65.0	3.629	3.705	4.642	8.592	5.188	4.942	3.604	2.132	60- 65	2.481	442.4
70.0	2.288	2.507	3.312	5.899	3.747	3.535	2.339	1.486	65- 70	1.804	444.2
75.0	1.894	1.864	2.210	4.115	2.540	2.428	1.877	0.732	70- 75	1.290	445.5
80.0	1.235	1.302	1.636	2.872	1.775	1.638	0.997	0.134	75- 80	0.886	446.4
85.0	0.507	0.573	1.000	2.039	0.836	0.734	0.231	0.048	80- 85	0.512	446.9
90.0	0.066	0.066	0.368	1.330	0.112	0.070	0.059	0.052	85- 90	0.224	447.1
95.0	0.063	0.050	0.032	0.548	0.036	0.049	0.059	0.059	90- 95	0.090	447.2
100.0	0.066	0.056	0.039	0.074	0.044	0.052	0.061	0.069	95-100	0.040	447.2
105.0	0.073	0.064	0.047	0.048	0.052	0.058	0.068	0.085	100-105	0.032	447.3
110.0	0.084	0.076	0.058	0.053	0.063	0.067	0.077	0.105	105-110	0.037	447.3
115.0	0.099	0.092	0.072	0.060	0.078	0.080	0.092	0.137	110-115	0.043	447.3
120.0	0.121	0.111	0.090	0.068	0.096	0.096	0.114	0.187	115-120	0.051	447.4
125.0	0.153	0.135	0.115	0.080	0.122	0.117	0.146	0.277	120-125	0.063	447.5
130.0	0.210	0.171	0.147	0.095	0.155	0.145	0.202	0.452	125-130	0.081	447.5
135.0	0.332	0.257	0.194	0.109	0.211	0.199	0.326	0.717	130-135	0.110	447.6
140.0	0.601	0.428	0.309	0.124	0.339	0.301	0.531	0.923	135-140	0.151	447.8
145.0	0.864	0.590	0.502	0.162	0.513	0.432	0.729	0.898	140-145	0.180	448.0
150.0	0.859	0.589	0.600	0.227	0.587	0.493	0.740	0.688	145-150	0.169	448.1
155.0	0.648	0.475	0.518	0.248	0.526	0.449	0.561	0.538	150-155	0.126	448.3
160.0	0.482	0.484	0.389	0.242	0.461	0.548	0.545	0.970	155-160	0.103	448.4
165.0	1.185	1.181	0.905	0.381	1.157	1.330	1.675	2.028	160-165	0.165	448.5
170.0	2.231	2.287	2.071	0.974	2.209	2.445	2.786	2.693	165-170	0.229	448.8
175.0	2.972	3.031	2.924	1.779	3.171	3.223	3.237	2.689	170-175	0.189	449.0
180.0	3.204	3.280	3.225	2.474	3.225	3.269	3.186	2.474	175-180	0.070	449.0
DEG	LUMINOUS INTENSITY: cd									UNIT: lm	

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Ultra Max	Address:	
NAME: MR16 12V 5W COB	TYPE:4000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

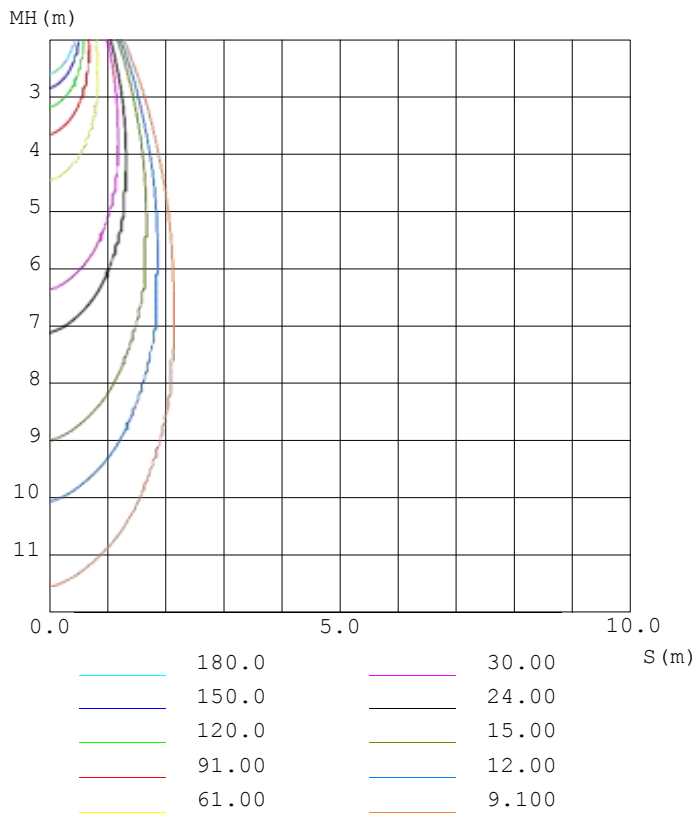


ISOLUX DIAGRAM

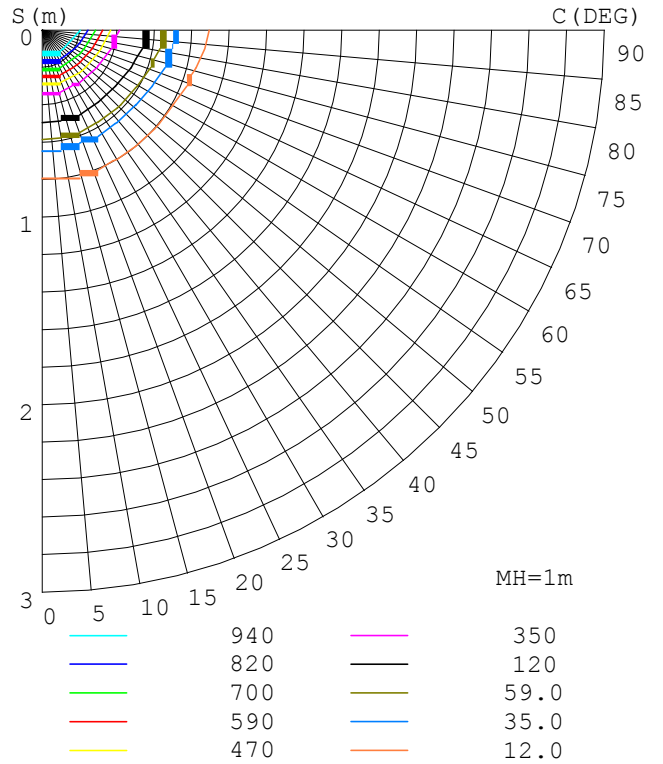
Report number:

MANUFACTURER: Ultra Max	Address:	
NAME: MR16 12V 5W COB	TYPE:4000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



PLANAR ISOLUX DIAGRAM(UNIT:lx)



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Ultra Max	Address:	
NAME: MR16 12V 5W COB	TYPE:4000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) \ y (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1216	1212	1203	1174	841	797	1216	1212	1203	1174	841	797
5.0	1097	1097	1125	1183	1035	925	1200	1188	1144	1044	591	607
10.0	881	885	940	1056	1138	954	1063	1041	964	812	374	409
15.0	619	625	686	845	1123	879	825	793	714	551	212	209
20.0	364	360	404	566	970	709	561	544	471	344	98.0	127
25.0	195	188	207	359	733	507	354	333	274	181	38.9	53.1
30.0	93.0	88.0	100	168	488	351	190	173	134	76.0	21.0	21.5
35.0	38.1	38.1	44.1	74.6	291	185	83.3	75.4	50.4	31.0	16.4	16.8
40.0	21.0	21.5	21.4	36.7	151	84.2	38.9	30.2	22.5	19.7	12.1	13.2
45.0	15.6	15.5	15.3	20.0	66.8	39.4	20.1	20.1	16.2	15.3	8.07	9.45
50.0	12.0	12.0	11.5	13.8	29.3	19.7	15.2	15.7	12.6	10.9	5.34	6.35
55.0	8.10	8.25	7.98	10.1	18.7	14.9	10.7	11.1	8.82	7.21	3.68	4.34
60.0	5.46	5.58	5.48	6.84	14.2	11.0	7.28	7.64	6.14	4.94	2.62	3.13
65.0	3.62	3.65	3.75	4.64	9.83	7.35	5.18	5.47	4.41	3.60	1.99	2.27
70.0	2.28	2.39	2.62	3.31	6.64	5.15	3.74	3.76	3.30	2.33	1.25	1.72
75.0	1.89	1.79	1.93	2.21	4.48	3.74	2.54	2.61	2.24	1.87	0.57	0.90
80.0	1.23	1.20	1.40	1.63	3.15	2.59	1.77	1.85	1.42	1.00	0.03	0.24
85.0	0.51	0.48	0.67	1.00	2.22	1.85	0.84	0.87	0.60	0.23	0.04	0.06
90.0	0.07	0.04	0.10	0.37	1.62	1.03	0.11	0.11	0.03	0.06	0.04	0.06
95.0	0.06	0.04	0.06	0.03	0.79	0.31	0.04	0.06	0.04	0.06	0.05	0.06
100.0	0.07	0.05	0.06	0.04	0.12	0.03	0.04	0.06	0.04	0.06	0.07	0.07
105.0	0.07	0.06	0.07	0.05	0.06	0.04	0.05	0.07	0.05	0.07	0.09	0.08
110.0	0.08	0.08	0.08	0.06	0.06	0.04	0.06	0.07	0.06	0.08	0.11	0.10
115.0	0.10	0.09	0.09	0.07	0.06	0.05	0.08	0.08	0.08	0.09	0.15	0.12
120.0	0.12	0.12	0.10	0.09	0.07	0.06	0.10	0.10	0.09	0.11	0.21	0.16
125.0	0.15	0.15	0.12	0.12	0.08	0.08	0.12	0.12	0.12	0.15	0.32	0.23
130.0	0.21	0.19	0.15	0.15	0.09	0.10	0.16	0.14	0.15	0.20	0.53	0.38
135.0	0.33	0.30	0.22	0.19	0.10	0.12	0.21	0.19	0.21	0.33	0.77	0.66
140.0	0.60	0.50	0.36	0.31	0.11	0.14	0.34	0.28	0.32	0.53	0.92	0.93
145.0	0.86	0.66	0.52	0.50	0.13	0.20	0.51	0.42	0.45	0.73	0.83	0.96
150.0	0.86	0.64	0.54	0.60	0.18	0.28	0.59	0.49	0.50	0.74	0.63	0.75
155.0	0.65	0.52	0.43	0.52	0.20	0.29	0.53	0.46	0.44	0.56	0.59	0.48
160.0	0.48	0.60	0.37	0.39	0.19	0.29	0.46	0.54	0.56	0.55	1.23	0.71
165.0	1.18	1.25	1.11	0.90	0.27	0.49	1.15	1.21	1.44	1.67	2.24	1.80
170.0	2.23	2.26	2.30	2.07	0.88	1.06	2.20	2.30	2.58	2.78	2.87	2.51
175.0	2.97	2.96	3.10	2.92	1.74	1.81	3.17	3.15	3.29	3.23	2.74	2.63
180.0	3.20	3.25	3.31	3.22	2.44	2.49	3.22	3.20	3.33	3.18	2.48	2.46