

BULUMX-MR16WW5B1

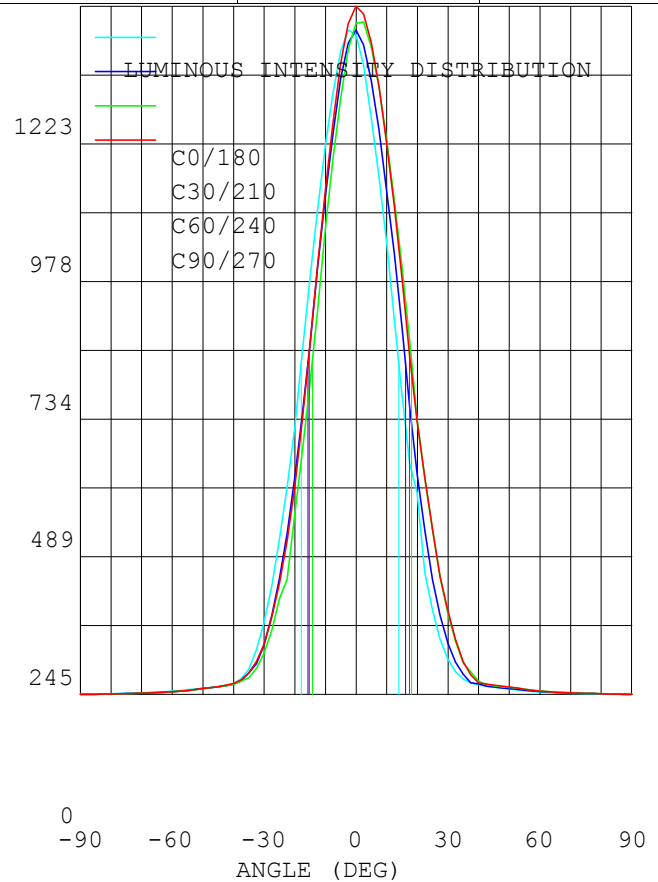
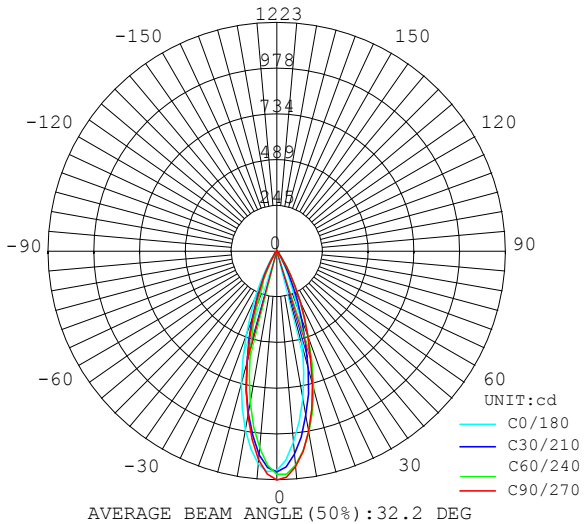
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: RTG004

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

DATA OF LAMP		Imax(cd)	1223	S/MH (C0/180)	0.59
MODEL	MR16	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.50
NOMINAL POWER(W)	5	TOTAL FLUX(lm)	385.07	Voltage (V)	12.02
RATED VOLTAGE (V)	230	EFFICIENCY(lm/W)	64.9	Current (A)	0.637
NOMINAL FLUX(lm)	385.1	η_{up} (%)	0.4	Power (W)	5.936
LAMPS QUANTITY	1	η_{down} (%)	99.6	Power Factor (PF)	0.775
TEST VOLTAGE (V)	12.0	Effective Flux(lm)	377.4	EEL	0.167

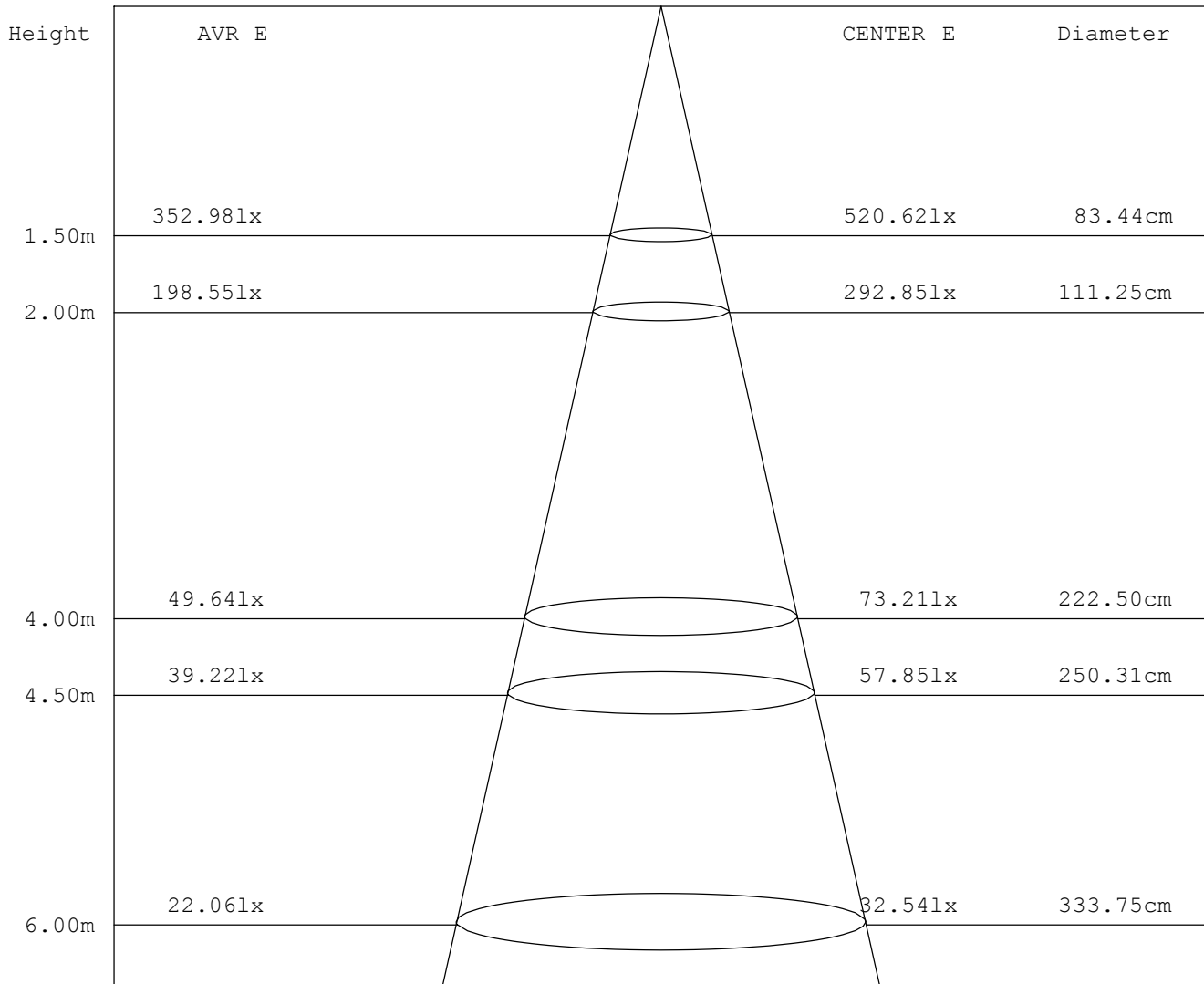
LUMINOUS INTENSITY DISTRIBUTION



AVERAGE AND CENTER E Figure

Report number: RTG004

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



Angle: 31.1deg

Ultra Max Batteries, Watkins House Pegamoid Rd., Montagu Industrial Estate, London N18 2NG
 Tel: 020 8803 8899 F: 020 8803 8939 E: sales@baruch.co.uk W: www.ultramaxbatteries.com

BULUMX-MR16WW5B1-RIG-TEC-I14

ZONAL FLUX DIAGRAM

Report number: RTG004

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

y	c0	c45	c90	c135	c180	c225	c270	c315	y	Φ zone	Φ total
5.0	1142	1076	1121	1026	1024	1120	1157	853.4	0- 5	25.42	25.42
10.0	973.6	854.7	894.2	950.9	802.5	939.5	978.1	639.0	5- 10	65.08	90.50
15.0	737.0	584.6	617.9	771.4	532.3	706.4	739.7	434.2	10- 15	81.75	172.2
20.0	475.9	354.4	370.2	536.6	358.9	441.7	485.7	257.5	15- 20	75.43	247.6
25.0	275.6	187.9	197.3	319.1	150.9	249.3	295.4	127.8	20- 25	54.86	302.5
30.0	128.3	81.09	89.78	166.6	62.64	117.7	149.1	51.78	25- 30	32.76	335.3
35.0	44.88	34.30	38.26	76.24	27.69	46.06	58.41	18.56	30- 35	16.33	351.6
40.0	19.36	18.40	19.87	33.32	16.98	21.22	20.71	15.10	35- 40	8.336	359.9
45.0	13.18	13.72	13.68	18.72	12.76	14.39	16.73	12.57	40- 45	5.837	365.8
50.0	11.30	10.64	10.75	13.84	9.916	11.70	13.63	8.785	45- 50	4.885	370.7
55.0	8.563	7.073	7.114	10.99	6.842	8.779	9.425	6.023	50- 55	3.867	374.5
60.0	5.930	4.825	4.831	7.602	4.667	5.917	6.175	4.269	55- 60	2.835	377.4
65.0	4.304	3.367	3.346	5.192	3.260	4.044	4.269	2.986	60- 65	2.071	379.4
70.0	3.176	2.368	2.293	3.589	2.207	3.028	3.043	2.154	65- 70	1.523	381.0
75.0	2.256	1.730	1.654	2.402	1.604	2.077	2.231	1.442	70- 75	1.097	382.1
80.0	1.619	1.073	1.065	1.739	0.984	1.495	1.539	0.651	75- 80	0.767	382.8
85.0	0.770	0.415	0.415	1.134	0.370	0.737	0.731	0.107	80- 85	0.403	383.2
90.0	0.127	0.046	0.033	0.458	0.032	0.123	0.086	0.046	85- 90	0.125	383.4
95.0	0.060	0.047	0.036	0.054	0.039	0.045	0.057	0.050	90- 95	0.034	383.4
100.0	0.060	0.052	0.043	0.048	0.047	0.049	0.058	0.056	95-100	0.027	383.4
105.0	0.062	0.060	0.054	0.053	0.057	0.056	0.062	0.065	100-105	0.030	383.5
110.0	0.069	0.069	0.066	0.060	0.068	0.064	0.068	0.077	105-110	0.034	383.5
115.0	0.078	0.082	0.083	0.069	0.082	0.075	0.078	0.094	110-115	0.039	383.5
120.0	0.092	0.098	0.105	0.082	0.100	0.089	0.092	0.117	115-120	0.045	383.6
125.0	0.108	0.116	0.135	0.099	0.122	0.106	0.112	0.146	120-125	0.052	383.6
130.0	0.128	0.139	0.178	0.118	0.159	0.130	0.139	0.192	125-130	0.060	383.7
135.0	0.165	0.205	0.274	0.142	0.250	0.175	0.194	0.291	130-135	0.077	383.8
140.0	0.254	0.333	0.498	0.203	0.448	0.274	0.316	0.442	135-140	0.110	383.9
145.0	0.413	0.484	0.754	0.330	0.675	0.405	0.478	0.559	140-145	0.151	384.0
150.0	0.538	0.520	0.766	0.402	0.692	0.458	0.555	0.547	145-150	0.157	384.2
155.0	0.490	0.427	0.597	0.363	0.567	0.421	0.484	0.447	150-155	0.122	384.3
160.0	0.352	0.400	0.427	0.355	0.591	0.522	0.419	0.615	155-160	0.093	384.4
165.0	0.721	1.013	1.233	0.681	1.523	1.296	1.324	1.492	160-165	0.150	384.5
170.0	1.665	1.966	2.263	1.503	2.597	2.308	2.484	2.455	165-170	0.220	384.8
175.0	2.481	2.720	3.041	2.281	3.172	3.092	3.100	2.839	170-175	0.190	385.0
180.0	2.971	3.060	3.147	2.800	2.999	3.054	3.109	2.808	175-180	0.070	385.0
DEG	LUMINOUS INTENSITY: cd									UNIT: lm	

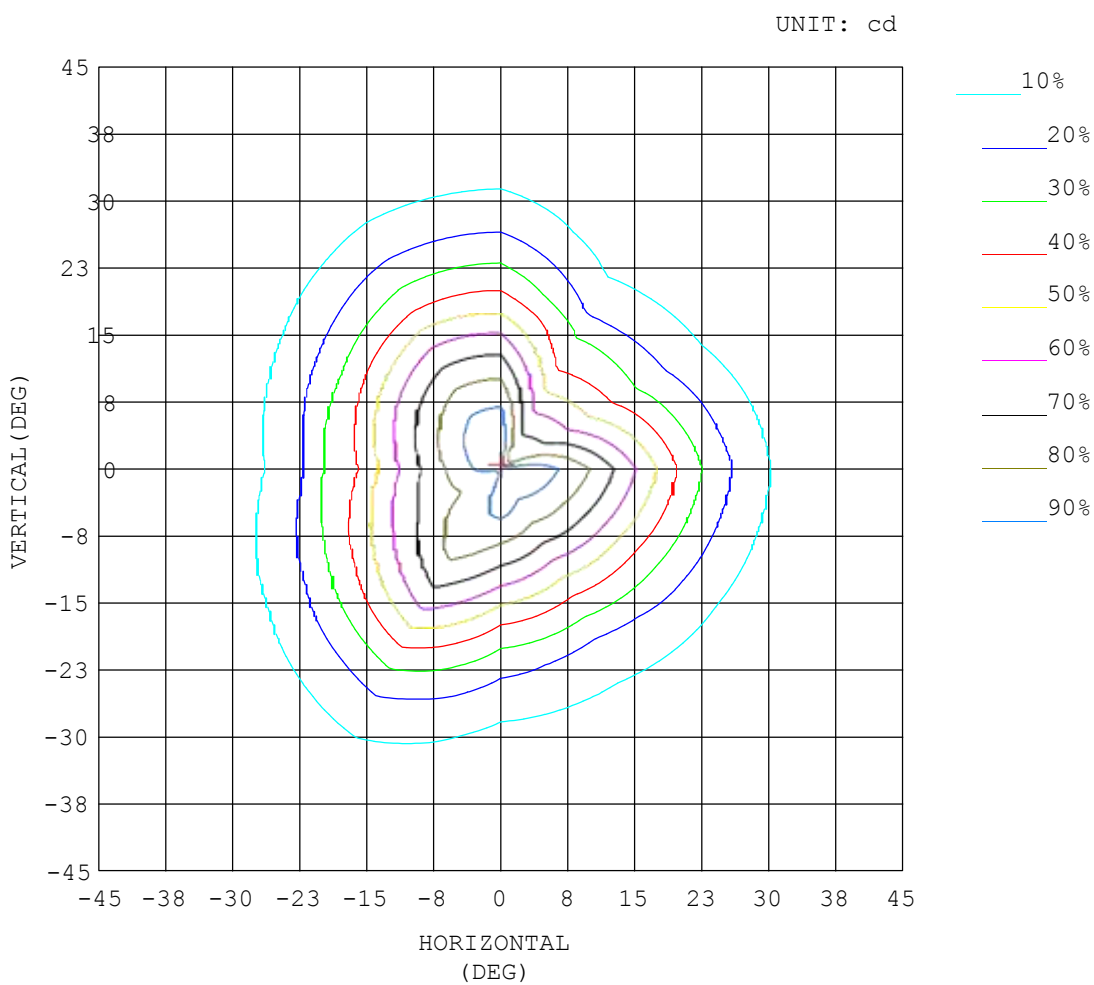
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BULUMX-MR16WW5B1-RIG-TEC-I14

ISOCANDELA DIAGRAM

Report number: RTG004

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NAME: MR16 12V 5W COB	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



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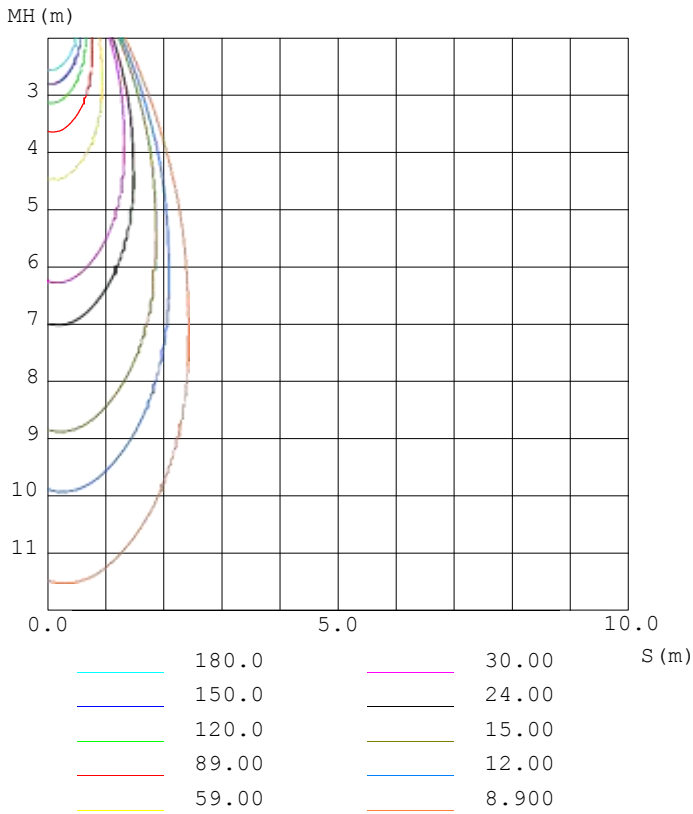
BULUMX-MR16WW5B1-RIG-TEC-I14

ISOLUX DIAGRAM

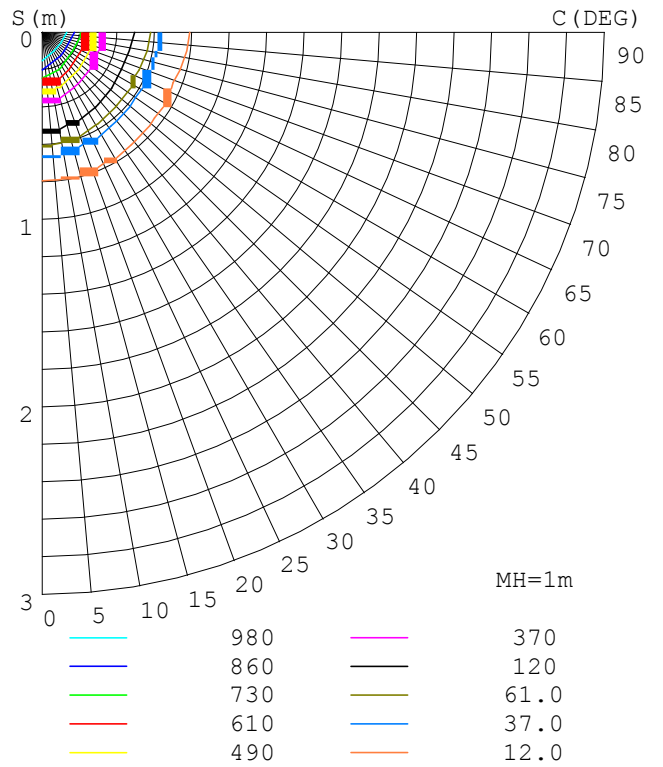
Report number: RTG004

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

C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



PLANAR ISOLUX DIAGRAM (UNIT: lx)



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BULUMX-MR16WW5B1-RIG-TEC-I14

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: RTG004

MANUFACTURER: Ultra Max	Address:	
NAME: MR16 12V 5W COB	TYPE:	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	1171	1180	1192	1223	1002	982	1171	1180	1192	1223	1002	982
5.0	1142	1094	1058	1121	1076	976	1024	1090	1150	1157	831	876
10.0	974	884	826	894	1028	874	803	894	985	978	607	671
15.0	737	619	551	618	862	681	532	653	760	740	401	468
20.0	476	387	322	370	623	450	359	393	491	486	232	283
25.0	276	206	170	197	384	254	151	205	294	295	110	146
30.0	128	88.3	73.8	89.7	208	125	62.6	90.9	144	149	43.2	60.3
35.0	44.8	38.5	30.0	38.2	97.5	54.9	27.6	35.9	56.1	58.4	16.9	20.2
40.0	19.3	18.6	18.1	19.8	40.4	26.1	16.9	18.9	23.5	20.7	13.8	16.4
45.0	13.1	13.6	13.7	13.6	20.5	16.8	12.7	13.1	15.6	16.7	11.3	13.7
50.0	11.3	10.9	10.3	10.7	14.5	13.1	9.91	10.6	12.7	13.6	7.74	9.82
55.0	8.56	7.23	6.91	7.11	11.6	10.2	6.84	7.87	9.68	9.42	5.33	6.71
60.0	5.93	5.00	4.64	4.83	8.18	7.01	4.66	5.38	6.44	6.17	3.79	4.74
65.0	4.30	3.54	3.19	3.34	5.50	4.87	3.26	3.77	4.31	4.26	2.65	3.32
70.0	3.17	2.44	2.29	2.29	3.83	3.34	2.20	2.69	3.36	3.04	1.97	2.33
75.0	2.25	1.78	1.68	1.65	2.67	2.13	1.60	1.97	2.17	2.23	1.16	1.71
80.0	1.61	1.15	0.99	1.06	1.89	1.58	0.98	1.40	1.58	1.53	0.49	0.82
85.0	0.77	0.45	0.38	0.41	1.34	0.92	0.37	0.64	0.83	0.73	0.03	0.18
90.0	0.13	0.03	0.06	0.03	0.61	0.31	0.03	0.08	0.16	0.09	0.03	0.06
95.0	0.06	0.04	0.06	0.04	0.08	0.03	0.04	0.06	0.03	0.06	0.04	0.06
100.0	0.06	0.04	0.06	0.04	0.06	0.04	0.05	0.06	0.04	0.06	0.05	0.06
105.0	0.06	0.05	0.07	0.05	0.06	0.05	0.06	0.06	0.05	0.06	0.06	0.07
110.0	0.07	0.06	0.08	0.07	0.06	0.06	0.07	0.07	0.06	0.07	0.08	0.08
115.0	0.08	0.07	0.09	0.08	0.07	0.07	0.08	0.08	0.07	0.08	0.10	0.09
120.0	0.09	0.09	0.10	0.10	0.08	0.08	0.10	0.09	0.09	0.09	0.12	0.11
125.0	0.11	0.11	0.12	0.14	0.09	0.10	0.12	0.11	0.10	0.11	0.16	0.13
130.0	0.13	0.13	0.15	0.18	0.11	0.13	0.16	0.13	0.13	0.14	0.22	0.17
135.0	0.17	0.19	0.22	0.27	0.12	0.16	0.25	0.18	0.17	0.19	0.33	0.25
140.0	0.25	0.31	0.35	0.50	0.16	0.24	0.45	0.29	0.26	0.32	0.47	0.41
145.0	0.41	0.48	0.48	0.75	0.25	0.41	0.68	0.43	0.38	0.48	0.56	0.56
150.0	0.54	0.54	0.50	0.77	0.31	0.50	0.69	0.47	0.44	0.56	0.51	0.59
155.0	0.49	0.47	0.39	0.60	0.28	0.44	0.57	0.44	0.41	0.48	0.45	0.45
160.0	0.35	0.45	0.35	0.43	0.27	0.44	0.59	0.58	0.46	0.42	0.78	0.45
165.0	0.72	0.88	1.14	1.23	0.53	0.83	1.52	1.29	1.30	1.32	1.73	1.25
170.0	1.66	1.77	2.15	2.26	1.40	1.59	2.59	2.40	2.21	2.48	2.62	2.28
175.0	2.48	2.61	2.82	3.04	2.20	2.35	3.17	3.06	3.11	3.10	2.92	2.75
180.0	2.97	3.00	3.11	3.14	2.74	2.85	2.99	2.96	3.14	3.10	2.79	2.82

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