

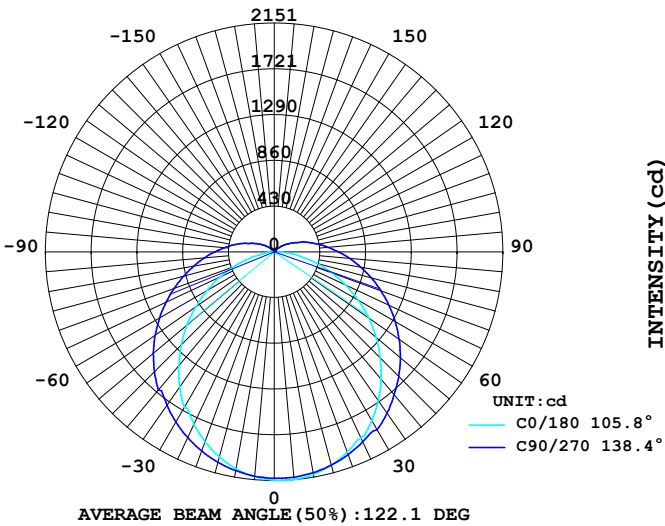
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

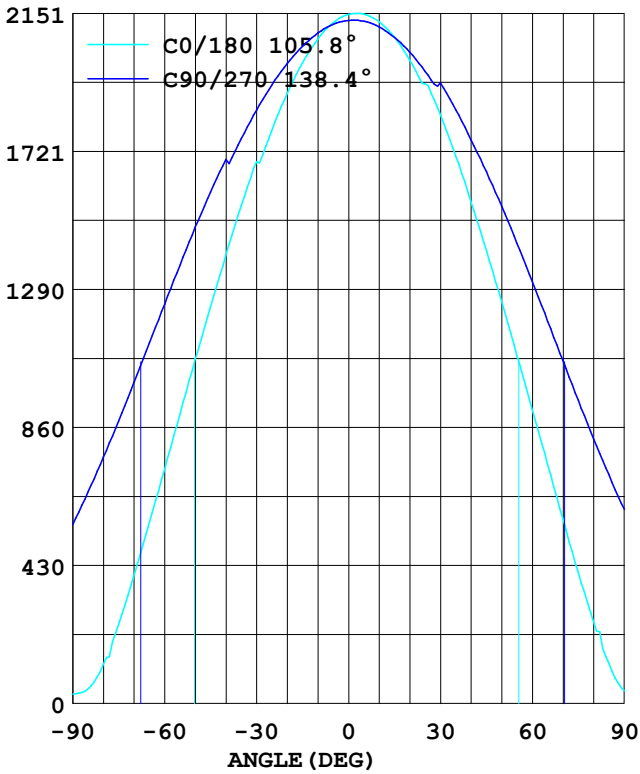
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: IL-TL15-N05040-120	TYPE: 4000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	2151	S/MH (C0/180)	1.18
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.30
NOMINAL POWER(W)	51	TOTAL FLUX(lm)	7721.1	Voltage(V)	230.1
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	151.1	Current(A)	0.236
NOMINAL FLUX(lm)	7721.2	$\eta$ up (%)	8.9	Power(W)	51.11
LAMPS QUANTITY	1	$\eta$ down (%)	91.1	Power Factor (PF)	0.940
TEST VOLTAGE (V)	230.2	Effective Flux(lm)	7453.0	EEI	0.093

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



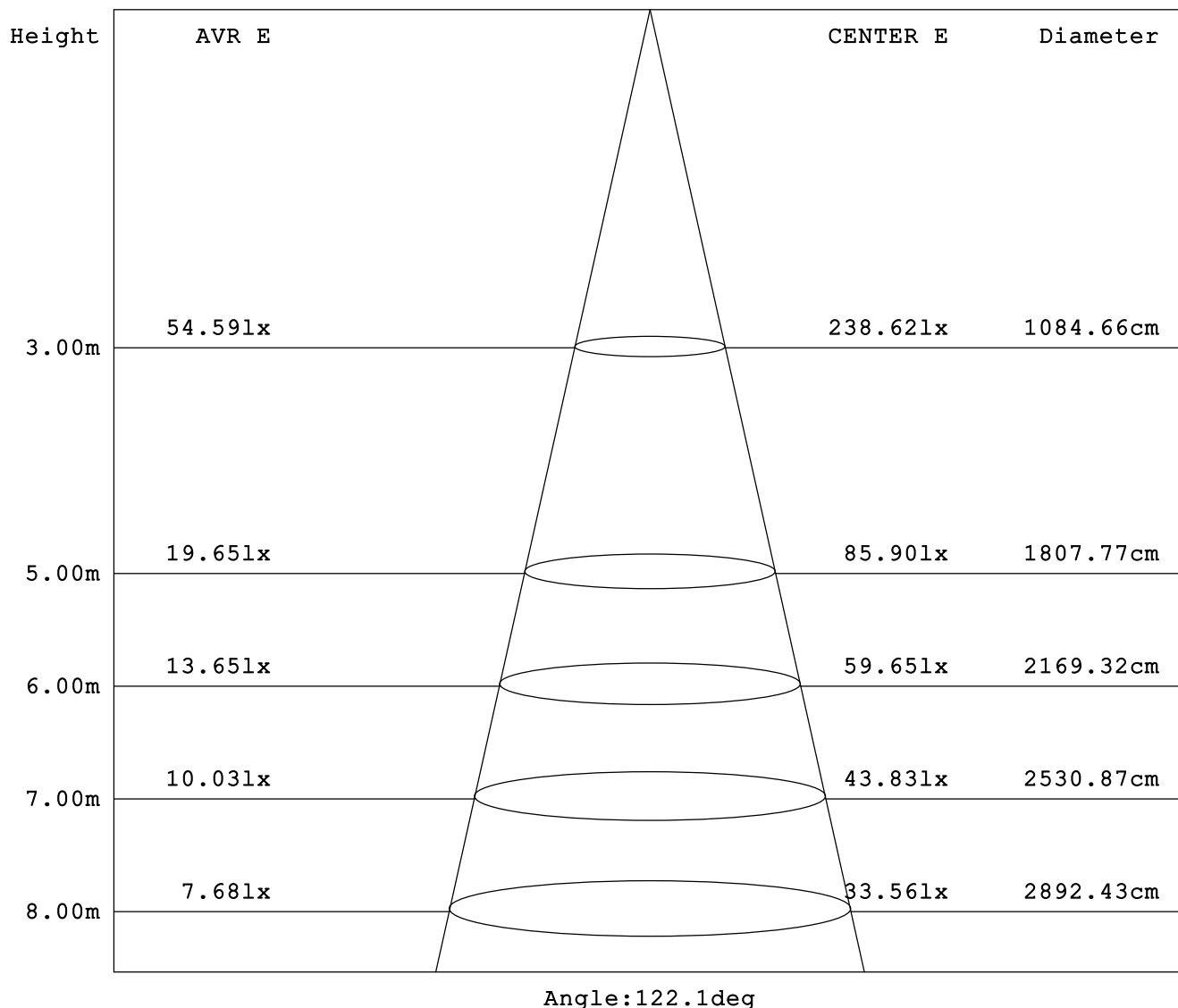
Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.12.25

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: IL-TL15-N05040-120	TYPE: 4000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024.12.25

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks:

## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: IL-TL15-N05040-120	TYPE: 4000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	2122	2119	2117	2102	2148	2135	2126	2119	0- 5	50.88	50.88
10.0	2071	2081	2089	2065	2124	2114	2108	2097	5- 10	150.8	201.7
15.0	1996	2025	2048	2008	2077	2073	2076	2055	10- 15	245.4	447.2
20.0	1902	1952	1994	1935	2004	2015	2029	1994	15- 20	331.5	778.7
25.0	1787	1899	1927	1880	1931	1940	1970	1917	20- 25	407.4	1186
30.0	1689	1797	1849	1776	1835	1848	1934	1824	25- 30	470.7	1657
35.0	1552	1683	1760	1660	1706	1743	1850	1716	30- 35	519.4	2177
40.0	1398	1561	1695	1538	1562	1665	1755	1636	35- 40	551.6	2728
45.0	1236	1429	1594	1404	1412	1539	1657	1509	40- 45	569.0	3297
50.0	1073	1296	1484	1268	1251	1407	1549	1374	45- 50	567.7	3865
55.0	902.5	1166	1367	1136	1084	1277	1434	1243	50- 55	551.9	4417
60.0	730.6	1033	1244	1002	915.6	1143	1315	1108	55- 60	522.6	4940
65.0	564.4	903.4	1124	871.3	743.7	1010	1191	974.9	60- 65	482.2	5422
70.0	399.5	782.4	1001	749.7	575.7	884.1	1069	849.4	65- 70	432.9	5855
75.0	247.1	666.2	880.2	633.2	408.5	760.7	944.7	726.9	70- 75	377.6	6232
80.0	122.0	558.7	767.7	526.1	252.5	647.4	823.3	615.6	75- 80	319.6	6552
85.0	45.06	464.0	658.6	432.3	123.9	540.9	712.5	511.7	80- 85	264.3	6816
90.0	29.66	378.2	557.9	348.1	39.64	444.5	604.9	418.5	85- 90	214.9	7031
95.0	27.19	302.7	469.3	274.7	23.57	360.5	508.9	337.6	90- 95	174.8	7206
100.0	25.09	235.0	388.4	211.4	22.15	285.6	423.9	266.3	95-100	141.1	7347
105.0	23.29	164.6	310.7	145.6	20.82	221.2	345.9	205.3	100-105	109.4	7457
110.0	21.77	114.1	237.7	97.16	19.49	153.7	277.5	137.6	105-110	81.43	7538
115.0	20.34	82.80	186.7	67.69	18.34	103.1	205.2	95.26	110-115	57.40	7596
120.0	19.10	55.52	139.9	42.78	17.20	71.68	154.4	65.50	115-120	40.87	7636
125.0	18.06	32.89	100.9	23.19	16.25	45.44	111.6	41.07	120-125	27.48	7664
130.0	17.11	16.44	66.36	15.30	15.40	24.90	75.01	22.53	125-130	17.26	7681
135.0	16.25	14.92	37.17	14.45	14.73	19.39	43.82	18.91	130-135	10.78	7692
140.0	15.59	14.07	20.53	13.78	14.16	17.96	19.68	17.39	135-140	7.125	7699
145.0	14.92	13.69	19.20	13.31	13.59	16.73	15.21	16.16	140-145	5.278	7704
150.0	14.54	13.69	18.06	13.21	13.21	15.97	14.64	15.49	145-150	4.441	7709
155.0	14.45	13.69	17.01	13.21	12.73	15.40	14.16	15.30	150-155	3.714	7713
160.0	14.83	13.69	16.44	13.40	13.40	15.11	13.78	15.11	155-160	3.035	7716
165.0	15.11	13.78	16.06	13.69	14.07	15.11	13.69	15.02	160-165	2.389	7718
170.0	15.21	13.97	15.97	13.97	14.54	15.21	13.78	15.11	165-170	1.734	7720
175.0	15.30	14.16	15.97	14.16	14.92	15.40	14.07	15.30	170-175	1.059	7721
180.0	15.11	14.45	15.40	14.35	15.30	15.59	14.45	15.40	175-180	0.358	7721
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

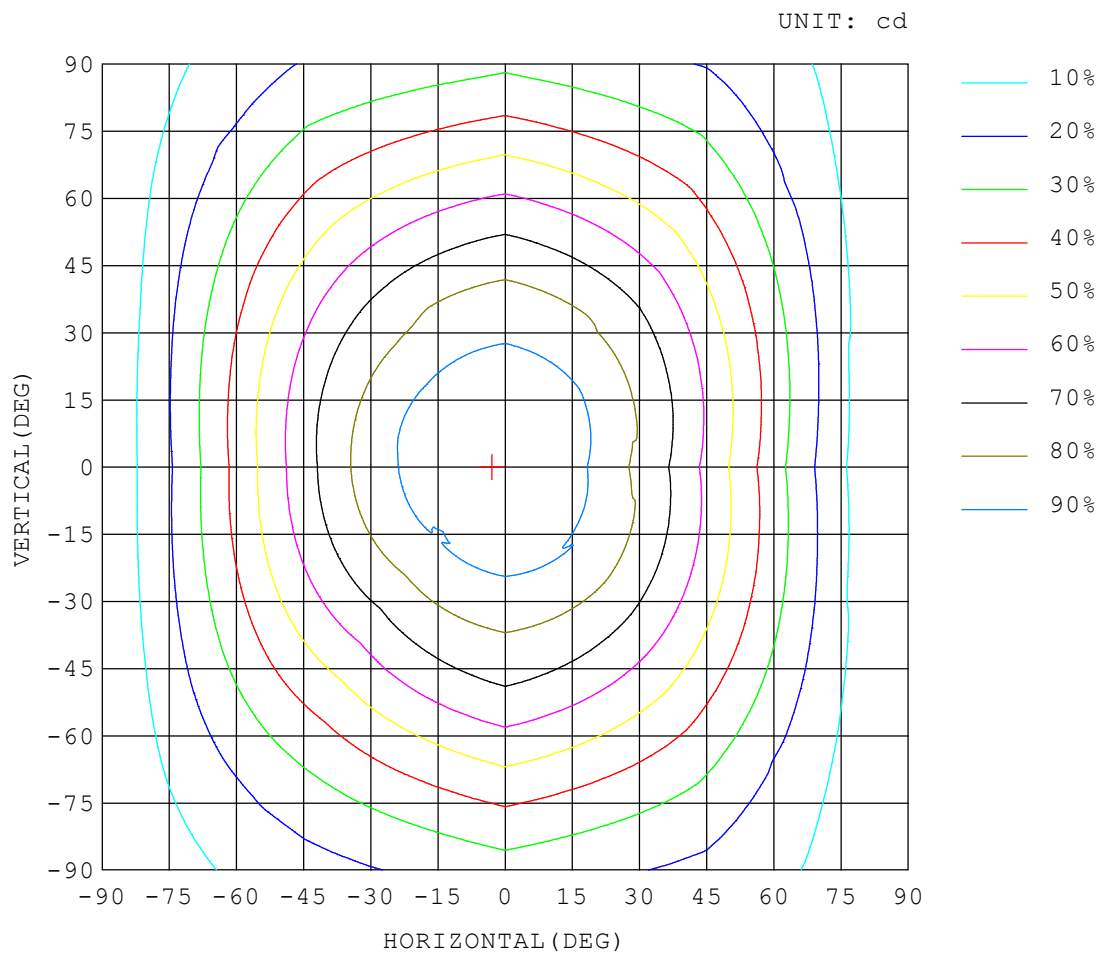
Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.12.25

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: IL-TL15-N05040-120	TYPE: 4000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



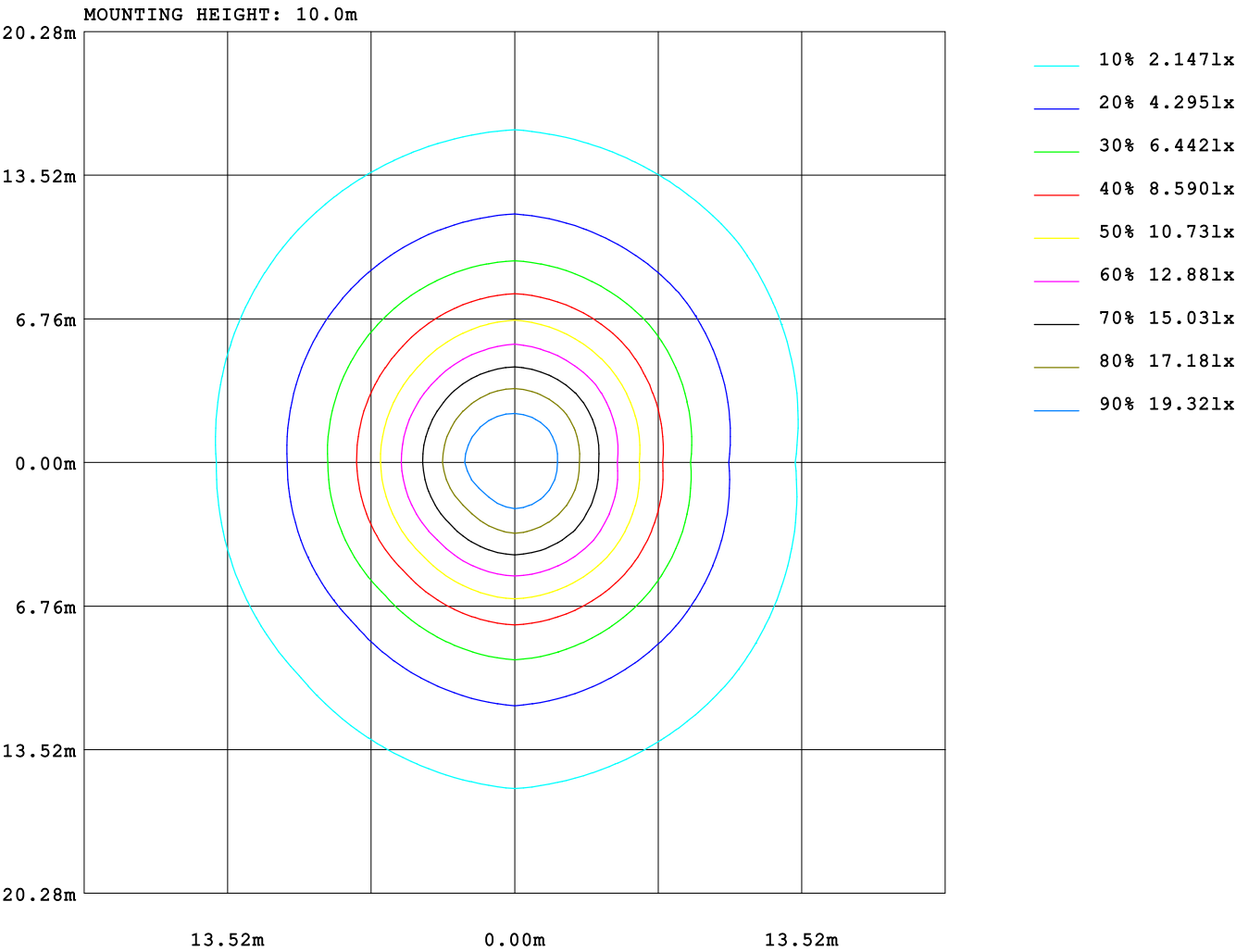
Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2024.12.25

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: IL-TL15-N05040-120	TYPE: 4000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.12.25

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER: ILUMEN GMBH</b>	<b>Address:</b>	
<b>NAME: IL-TL15-N05040-120</b>	<b>TYPE: 4000K</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315
0.0	2148	2137	2128	2120	2148	2137	2128	2120
5.0	2122	2119	2117	2102	2148	2135	2126	2119
10.0	2071	2081	2089	2065	2124	2114	2108	2097
15.0	1996	2025	2048	2008	2077	2073	2076	2055
20.0	1902	1952	1994	1935	2004	2015	2029	1994
25.0	1787	1899	1927	1880	1931	1940	1970	1917
30.0	1689	1797	1849	1776	1835	1848	1934	1824
35.0	1552	1683	1760	1660	1706	1743	1850	1716
40.0	1398	1561	1695	1538	1562	1665	1755	1636
45.0	1236	1429	1594	1404	1412	1539	1657	1509
50.0	1073	1296	1484	1268	1251	1407	1549	1374
55.0	903	1166	1367	1136	1084	1277	1434	1243
60.0	731	1033	1244	1002	916	1143	1315	1108
65.0	564	903	1124	871	744	1010	1191	975
70.0	400	782	1001	750	576	884	1069	849
75.0	247	666	880	633	409	761	945	727
80.0	122	559	768	526	253	647	823	616
85.0	45.0	464	659	432	124	541	713	512
90.0	29.6	378	558	348	39.6	445	605	419
95.0	27.1	303	469	275	23.5	361	509	338
100.0	25.0	235	388	211	22.1	286	424	266
105.0	23.2	165	311	146	20.8	221	346	205
110.0	21.7	114	238	97.1	19.4	154	278	138
115.0	20.3	82.8	187	67.6	18.3	103	205	95.2
120.0	19.1	55.5	140	42.7	17.2	71.6	154	65.5
125.0	18.0	32.8	101	23.1	16.2	45.4	112	41.0
130.0	17.1	16.4	66.3	15.3	15.4	24.9	75.0	22.5
135.0	16.2	14.9	37.1	14.4	14.7	19.3	43.8	18.9
140.0	15.5	14.0	20.5	13.7	14.1	17.9	19.6	17.3
145.0	14.9	13.6	19.2	13.3	13.5	16.7	15.2	16.1
150.0	14.5	13.6	18.0	13.2	13.2	15.9	14.6	15.4
155.0	14.4	13.6	17.0	13.2	12.7	15.4	14.1	15.3
160.0	14.8	13.6	16.4	13.4	13.4	15.1	13.7	15.1
165.0	15.1	13.7	16.0	13.6	14.0	15.1	13.6	15.0
170.0	15.2	13.9	15.9	13.9	14.5	15.2	13.7	15.1
175.0	15.3	14.1	15.9	14.1	14.9	15.4	14.0	15.3
180.0	15.1	14.4	15.4	14.3	15.3	15.5	14.4	15.4

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