

LUMINAIRE PHOTOMETRIC TEST REPORT

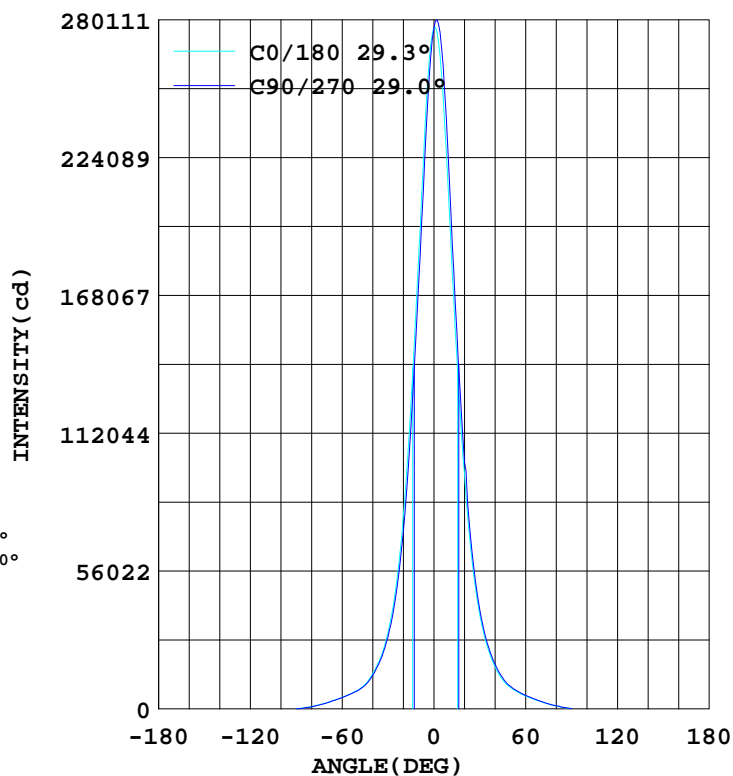
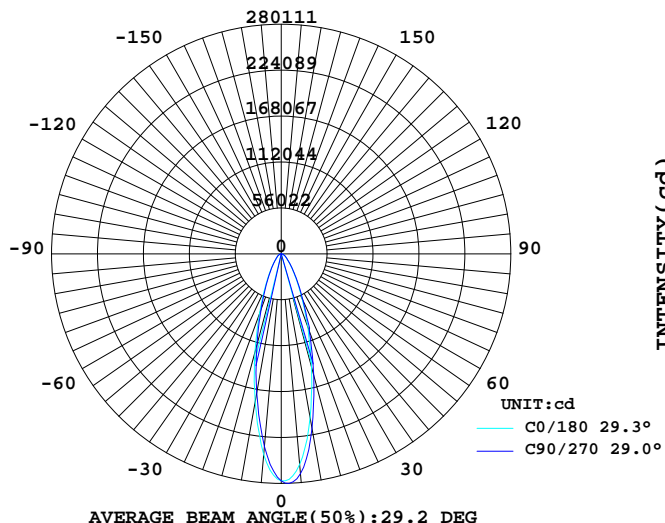
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Kroos	TYPE:IL-SL13-N80040-030	WEIGHT:
SPECIFICATION:5050LED 4000K 30°	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	280364	S/MH(C0/180)	0.45
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.43
NOMINAL POWER(W)	800	TOTAL FLUX(lm)	120000	Voltage(V)	231.1
RATED VOLTAGE(V)	230	EFFICIENCY(lm/W)	150.0	Current(A)	3.461
NOMINAL FLUX(lm)	120000.0	η up(%)	0.0	Power(W)	800.0
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	1.000
TEST VOLTAGE(V)	231.1	Effective Flux(lm)	120000.3	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



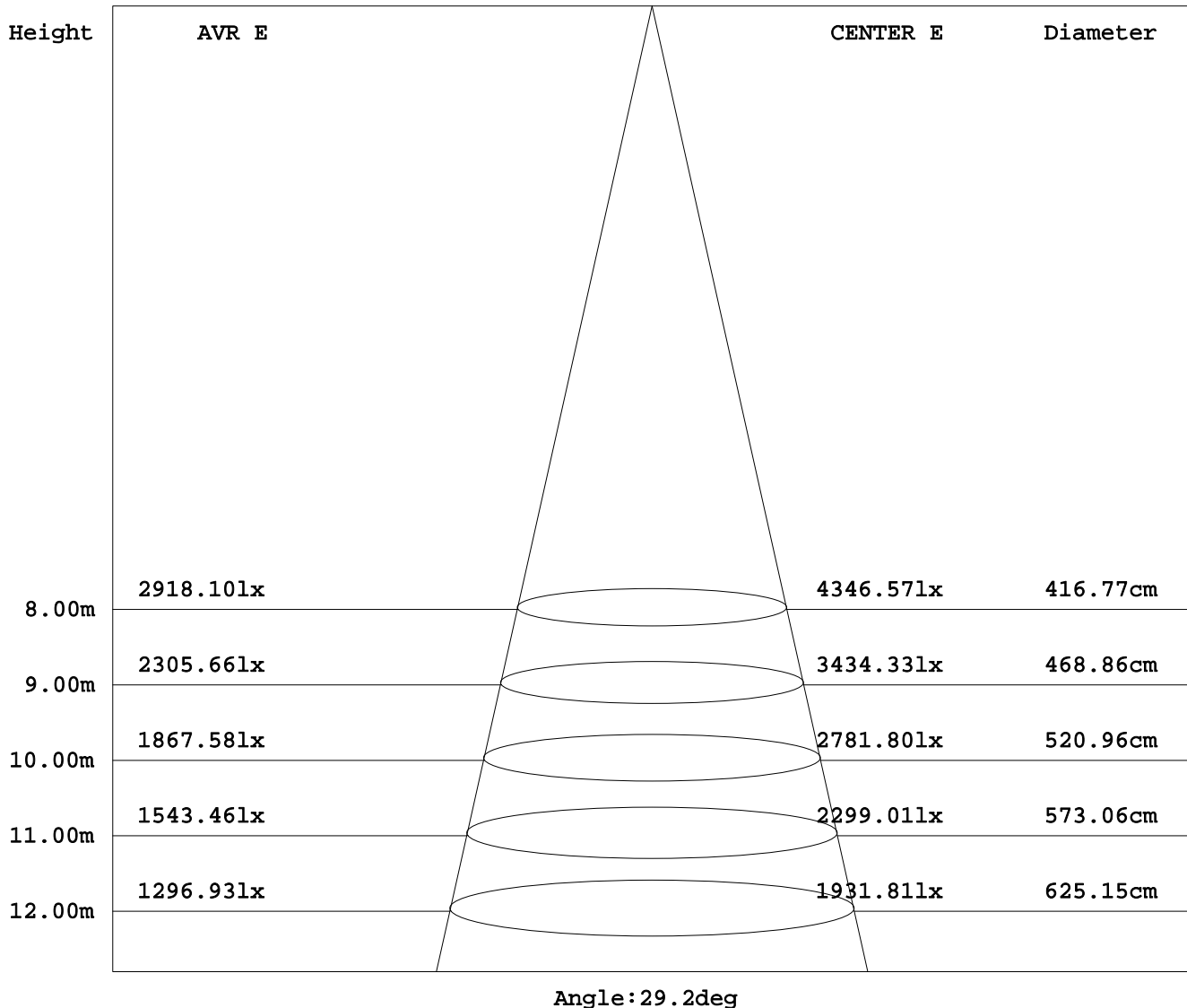
Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.02.20

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:

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NAME: Kroos	TYPE:IL-SL13-N80040-030	WEIGHT:
SPECIFICATION:5050LED 4000K 30°	DIMENSION:	SERIAL No.:



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ZONAL FLUX DIAGRAM

Report number:

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NAME: Kroos	TYPE:IL-SL13-N80040-030	WEIGHT:
SPECIFICATION:5050LED 4000K 30°	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	2462	2394	2361	2361	2578	2651	2691	2695	0- 5	6322	6322
10.0	1835	1761	1726	1734	2034	2106	2165	2150	5- 10	15826	22149
15.0	1238	1180	1146	1163	1430	1501	1535	1526	10- 15	19133	41282
20.0	780.7	751.9	714.3	746.8	954.2	982.5	1001	984.3	15- 20	17839	59121
25.0	488.0	468.8	456.3	466.5	601.8	626.5	636.7	612.9	20- 25	14399	73520
30.0	309.4	300.0	293.2	298.3	383.7	403.9	403.8	388.9	25- 30	11011	84531
35.0	207.1	202.0	198.7	200.1	250.7	264.5	264.5	252.5	30- 35	8331	92862
40.0	143.5	137.7	136.5	137.3	171.1	181.3	181.8	172.0	35- 40	6361	99223
45.0	99.16	95.45	96.01	96.88	117.9	124.8	125.8	120.3	40- 45	4866	104089
50.0	73.20	73.99	73.77	75.15	87.59	90.41	92.83	86.55	45- 50	3807	107897
55.0	59.83	58.31	59.12	58.87	67.85	71.17	70.86	68.85	50- 55	3150	111047
60.0	46.70	45.52	46.11	45.69	52.53	55.57	54.97	54.36	55- 60	2631	113678
65.0	35.63	34.63	34.98	34.55	39.91	42.61	42.02	42.15	60- 65	2143	115821
70.0	25.54	24.83	24.39	24.45	29.18	31.46	30.58	31.55	65- 70	1665	117486
75.0	16.79	15.81	15.67	15.58	19.25	21.43	20.17	21.75	70- 75	1196	118682
80.0	9.683	8.449	8.843	8.258	11.71	12.66	12.43	13.01	75- 80	768.9	119451
85.0	4.170	3.116	3.530	2.972	5.371	6.382	5.868	6.611	80- 85	407.8	119859
90.0	0.718	0.417	0.736	0.409	0.906	1.401	1.321	1.720	85- 90	141.5	120000
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:×100cd									UNIT:lm	

Test System:
 Temperature:25.3DEG
 Operators:
 Test Date:2025.02.20

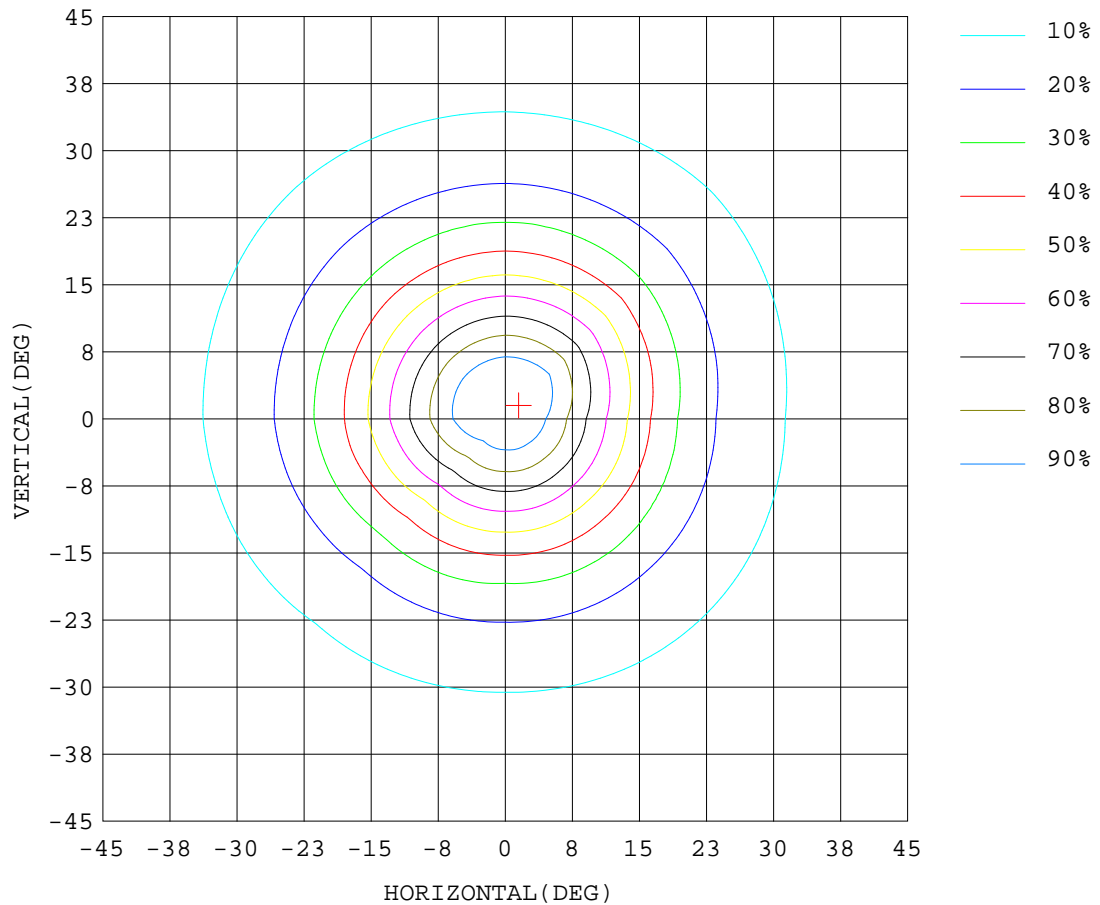
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Kroos	TYPE:IL-SL13-N80040-030	WEIGHT:
SPECIFICATION:5050LED 4000K 30°	DIMENSION:	SERIAL No.:

UNIT: cd



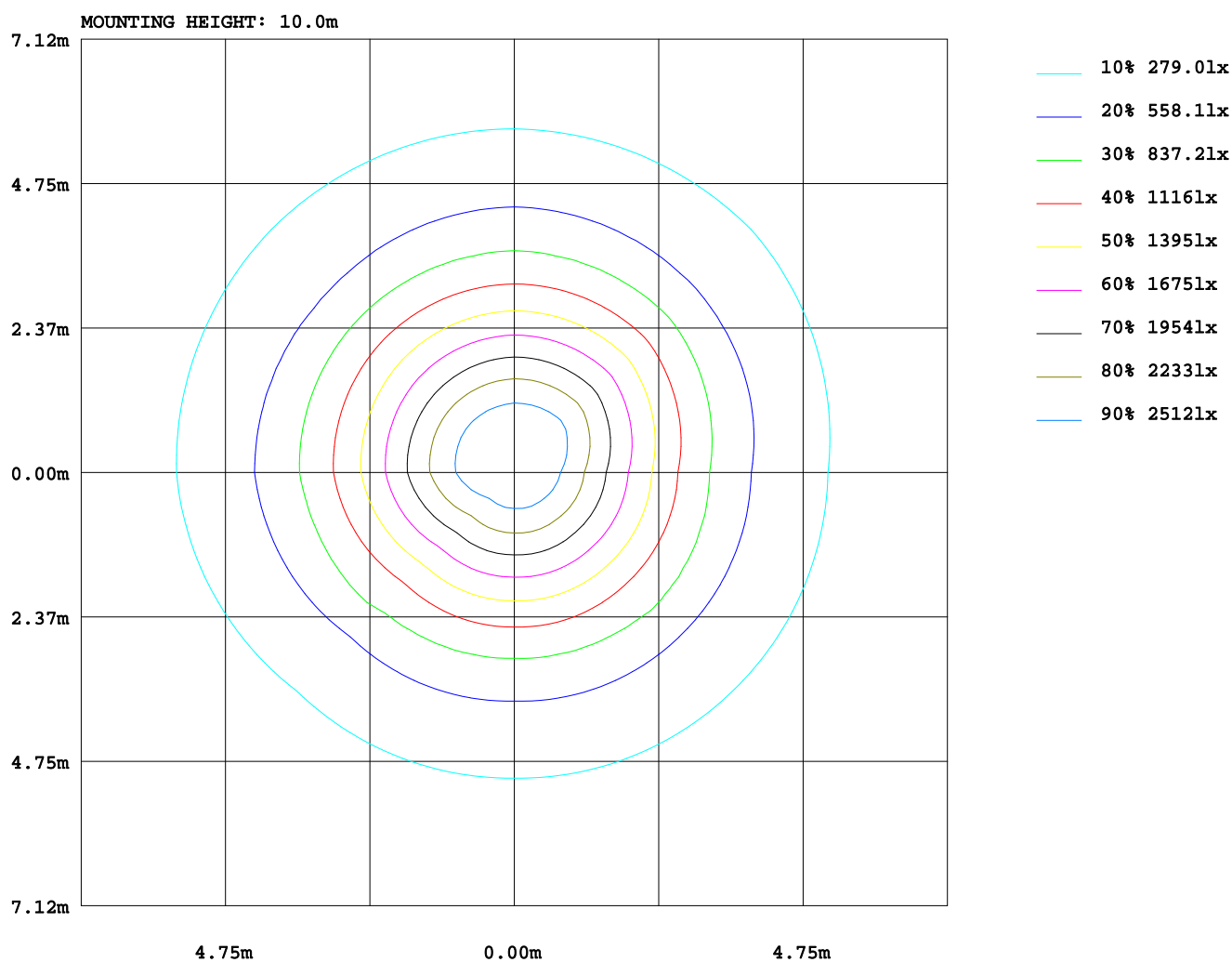
Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.02.20

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

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Kroos	TYPE: IL-SL13-N80040-030	WEIGHT:
SPECIFICATION: 5050LED 4000K 30°	DIMENSION:	SERIAL No.:



Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2025.02.20

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Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER: ILUMEN GMBH	Address:			
NAME: Kroos	TYPE:IL-SL13-N80040-030		WEIGHT:	
SPECIFICATION:5050LED 4000K 30°	DIMENSION:		SERIAL No.:	

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	23.0	24.0	23.3	24.2	24.3	22.9	23.9	23.1	24.0	24.2
3H	23.9	24.8	24.2	25.0	25.2	23.8	24.7	24.0	24.9	25.1
4H	24.3	25.1	24.6	25.3	25.6	24.1	24.9	24.4	25.2	25.4
6H	24.5	25.3	24.8	25.5	25.8	24.3	25.1	24.6	25.3	25.6
8H	24.6	25.3	24.9	25.6	25.8	24.3	25.1	24.6	25.4	25.6
12H	24.6	25.3	24.9	25.6	25.9	24.4	25.1	24.7	25.4	25.6
4H 2H	23.4	24.2	23.7	24.5	24.7	23.3	24.1	23.6	24.4	24.6
3H	24.5	25.2	24.8	25.5	25.7	24.3	25.1	24.6	25.3	25.6
4H	24.9	25.6	25.2	25.9	26.2	24.7	25.4	25.1	25.7	26.0
6H	25.2	25.8	25.6	26.1	26.5	25.0	25.6	25.4	25.9	26.3
8H	25.3	25.9	25.7	26.2	26.6	25.1	25.6	25.5	26.0	26.4
12H	25.4	25.9	25.8	26.2	26.6	25.1	25.6	25.5	26.0	26.4
8H 4H	25.0	25.6	25.4	25.9	26.3	24.8	25.4	25.2	25.8	26.1
6H	25.4	25.9	25.8	26.3	26.7	25.2	25.7	25.6	26.1	26.5
8H	25.5	26.0	26.0	26.4	26.8	25.3	25.7	25.8	26.2	26.6
12H	25.7	26.0	26.1	26.4	26.9	25.4	25.8	25.9	26.2	26.7
12H 4H	25.0	25.5	25.4	25.9	26.3	24.8	25.3	25.2	25.7	26.1
6H	25.4	25.8	25.9	26.2	26.7	25.2	25.6	25.7	26.0	26.5
8H	25.6	25.9	26.0	26.4	26.8	25.4	25.7	25.8	26.2	26.6

Variations with the observer position at spacings:

S = 1.0H	+ 0.5 / - 0.6	+ 0.5 / - 0.6
1.5H	+ 0.6 / - 0.4	+ 0.6 / - 0.4
2.0H	+ 0.7 / - 0.4	+ 0.6 / - 0.5

CIE Pub.117 Corrected 120000 lm Total Lamp Luminous Flux.(8log(F/F0) = 16.6)

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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPECIFICATION: 5050LED 4000K 30°	DIMENSION:	SERIAL No.:

UNIT: ×100cd

C (DEG)								
γ (DEG)	0	45	90	135	180	225	270	315
0.0	2768	2768	2768	2768	2768	2768	2768	2768
5.0	2462	2394	2361	2361	2578	2651	2691	2695
10.0	1835	1761	1726	1734	2034	2106	2165	2150
15.0	1238	1180	1146	1163	1430	1501	1535	1526
20.0	781	752	714	747	954	983	1001	984
25.0	488	469	456	467	602	627	637	613
30.0	309	300	293	298	384	404	404	389
35.0	207	202	199	200	251	265	265	253
40.0	144	138	137	137	171	181	182	172
45.0	99.1	95.4	96.0	96.8	118	125	126	120
50.0	73.2	73.9	73.7	75.1	87.5	90.4	92.8	86.5
55.0	59.8	58.3	59.1	58.8	67.8	71.1	70.8	68.8
60.0	46.7	45.5	46.1	45.6	52.5	55.5	54.9	54.3
65.0	35.6	34.6	34.9	34.5	39.9	42.6	42.0	42.1
70.0	25.5	24.8	24.3	24.4	29.1	31.4	30.5	31.5
75.0	16.7	15.8	15.6	15.5	19.2	21.4	20.1	21.7
80.0	9.68	8.44	8.84	8.25	11.7	12.6	12.4	13.0
85.0	4.17	3.11	3.53	2.97	5.37	6.38	5.86	6.61
90.0	0.72	0.42	0.74	0.41	0.91	1.40	1.32	1.72

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