

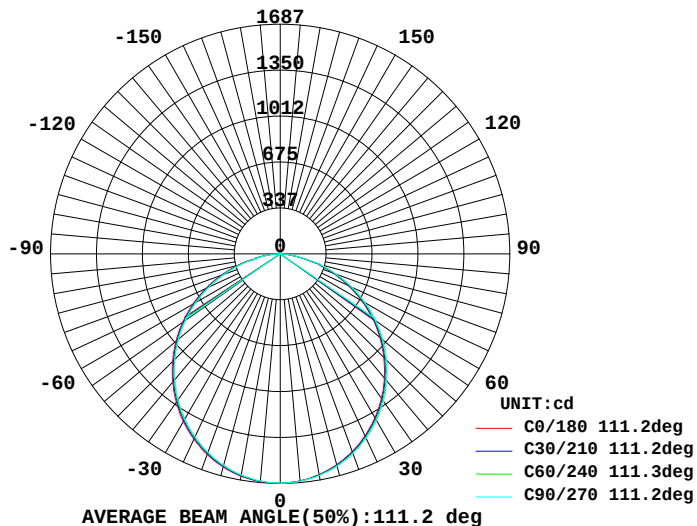
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Office Advanced 90Ra 5000K 40W Opal		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4166	DIMENSION: 595x595x20	SERIAL No.:

DATA OF LAMP		Imax(cd)	1687	S/MH(C0/180)	1.26
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.24
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	4751.2	Voltage(V)	220.3
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	116.9	Current(A)	0.191
NOMINAL FLUX(lm)	4751.2	η up(%)	1.4	Power(W)	40.65
LAMPS QUANTITY	1	η down(%)	98.6	Power Factor(PF)	0.962
TEST VOLTAGE(V)	220.4	Effective Flux(lm)	4751.2	EEI	0.117

LUMINOUS INTENSITY DISTRIBUTION



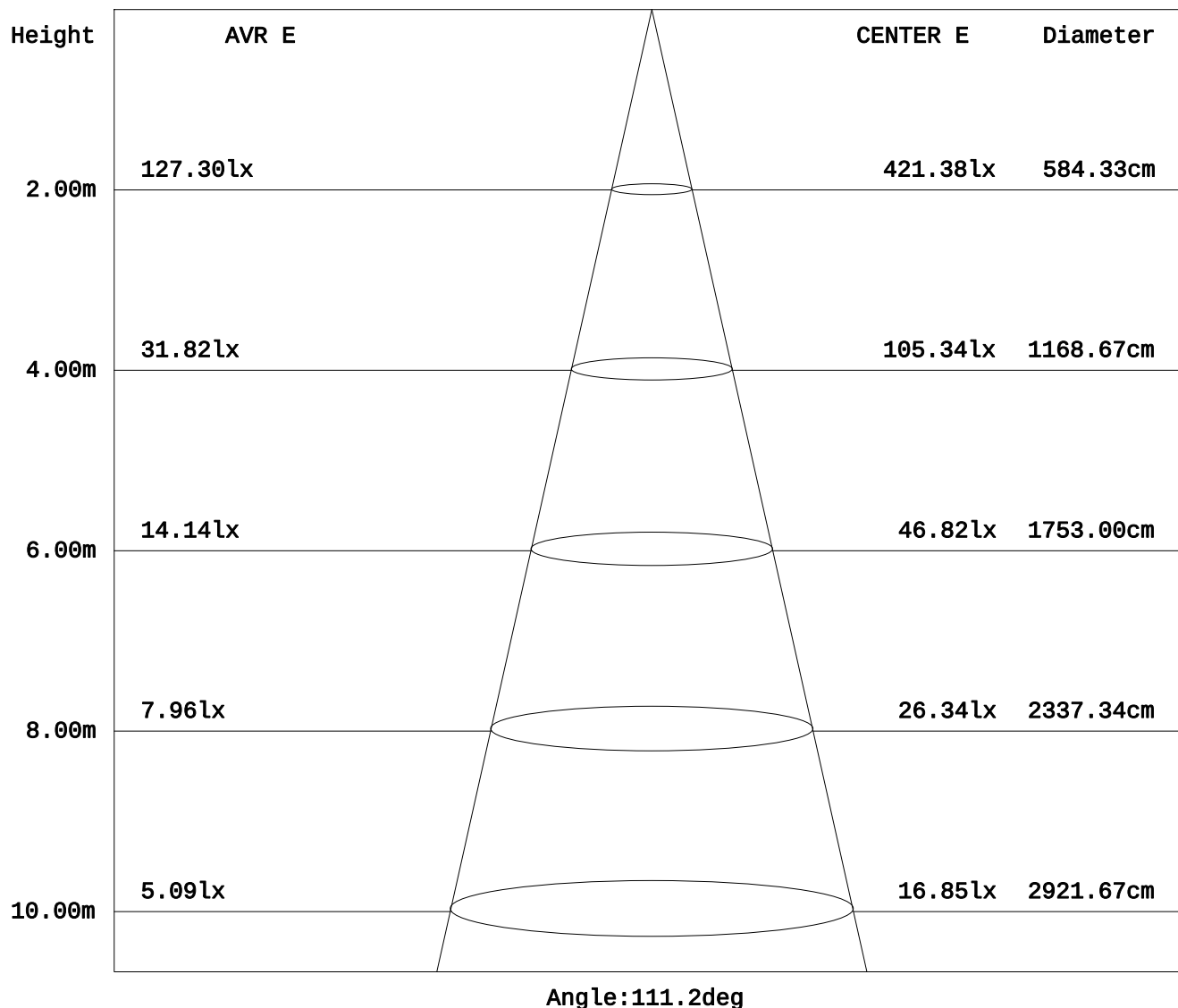
Test System:
 Temperature: 25.3°C
 Operators:
 Test Date: 03-20-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks: 94Ra. 1.5% Flicker. 27.2 Temp

AVERAGE AND CENTER E Figure

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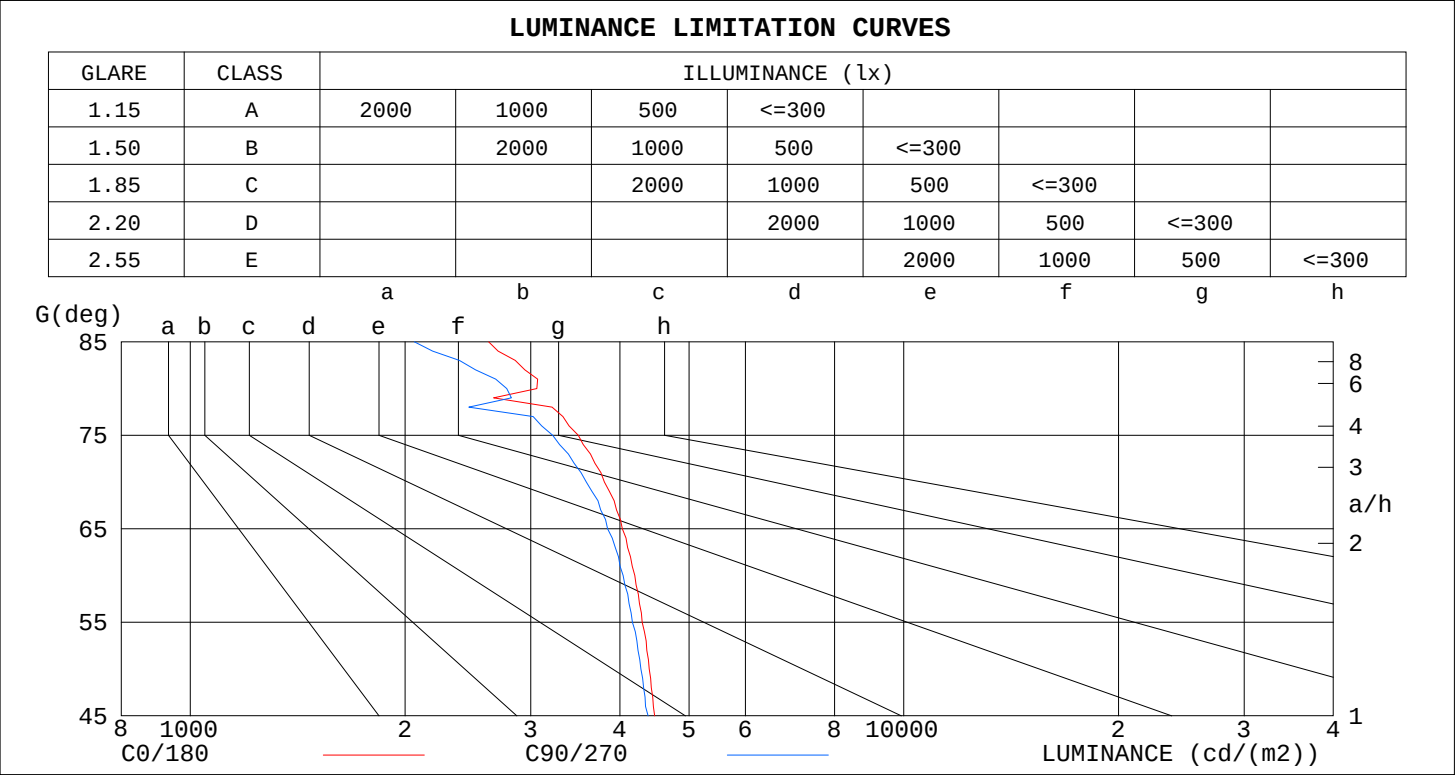
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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/m2		
G(deg)	C0/180	C90/270
85	2619	2061
80	3060	2777
75	3498	3220
70	3805	3588
65	4032	3845
60	4197	4042
55	4299	4166
50	4397	4281
45	4476	4381

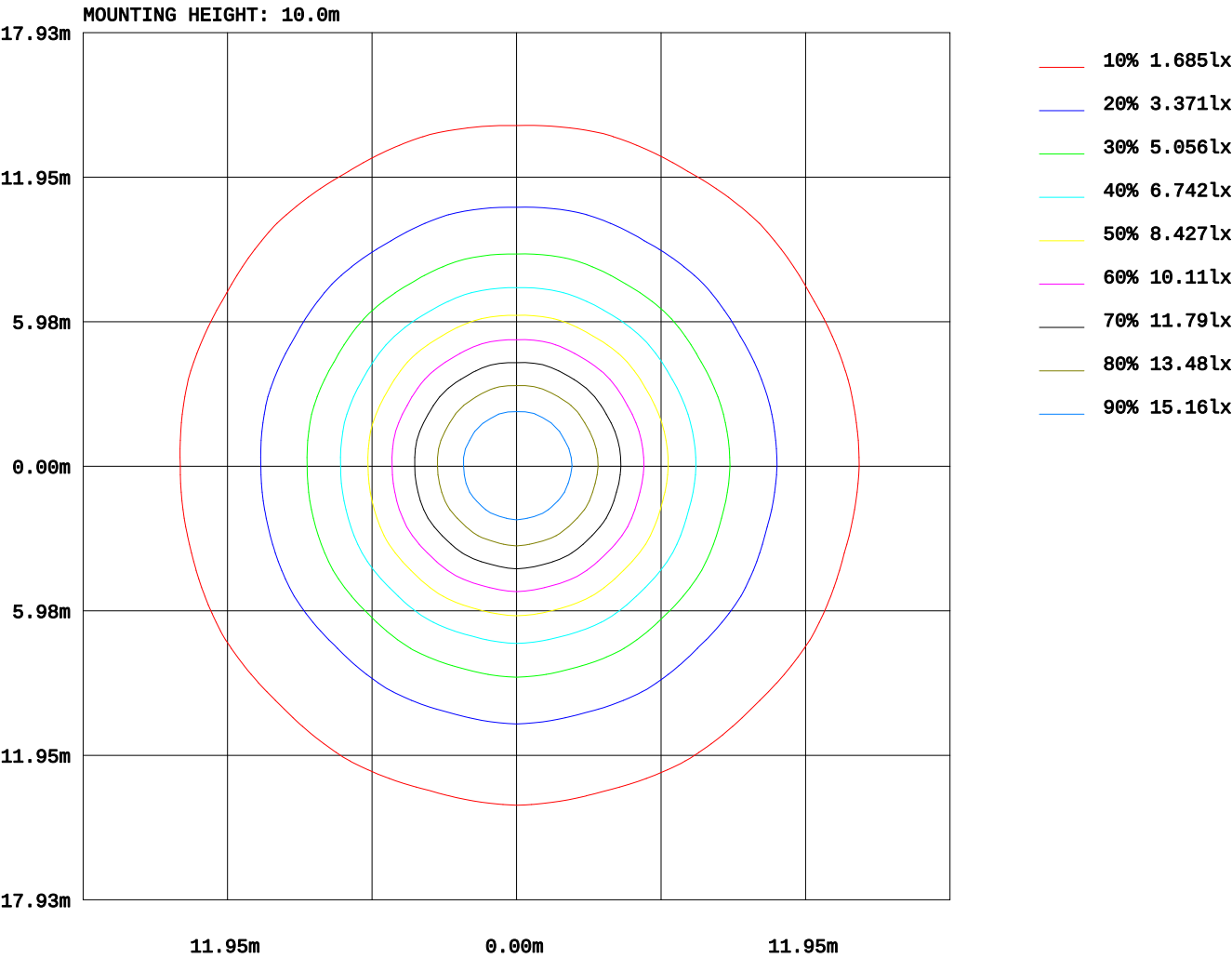
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ISOLUX DIAGRAM

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UGR Table

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SPECIFICATION:	CCT(K): 4166	DIMENSION: 595x595x20		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	17.8	19.3	18.1	19.5	19.8	17.7	19.2	18.0	19.4	19.6
3H	19.3	20.7	19.6	20.9	21.2	19.1	20.5	19.4	20.7	21.0
4H	19.9	21.2	20.2	21.4	21.7	19.6	20.9	20.0	21.2	21.5
6H	20.2	21.4	20.6	21.7	22.0	19.9	21.1	20.3	21.4	21.7
8H	20.3	21.5	20.7	21.8	22.1	20.0	21.2	20.4	21.5	21.8
12H	20.4	21.5	20.8	21.8	22.2	20.0	21.2	20.4	21.5	21.8
4H 2H	18.4	19.7	18.7	20.0	20.3	18.3	19.6	18.6	19.9	20.2
3H	20.1	21.2	20.4	21.5	21.8	19.9	21.0	20.3	21.3	21.7
4H	20.7	21.8	21.1	22.1	22.5	20.5	21.6	20.9	21.9	22.3
6H	21.1	22.1	21.6	22.5	22.8	20.9	21.8	21.3	22.2	22.6
8H	21.3	22.1	21.7	22.5	23.0	21.0	21.8	21.4	22.2	22.7
12H	21.4	22.2	21.8	22.6	23.0	21.0	21.8	21.5	22.2	22.7
8H 4H	20.9	21.8	21.4	22.2	22.6	20.7	21.6	21.2	22.0	22.4
6H	21.5	22.2	21.9	22.6	23.1	21.2	21.9	21.7	22.4	22.8
8H	21.7	22.3	22.2	22.8	23.2	21.4	22.0	21.9	22.5	23.0
12H	21.8	22.3	22.3	22.8	23.3	21.5	22.0	22.0	22.5	23.0
12H 4H	20.9	21.7	21.4	22.1	22.6	20.7	21.5	21.2	21.9	22.4
6H	21.5	22.1	22.0	22.6	23.1	21.3	21.9	21.7	22.3	22.8
8H	21.7	22.3	22.2	22.7	23.2	21.5	22.0	22.0	22.5	23.0

Variations with the observer position at spacings:

S = 1.0H	+ 0.1 / - 0.1	+ 0.1 / - 0.1
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.3
2.0H	+ 0.3 / - 0.4	+ 0.2 / - 0.4

CIE Pub.117 Corrected 4751 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.4)

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SPECIFICATION:				CCT(K): 4166				DIMENSION: 595x595x20				SERIAL No.:			

UNIT: cd

C(deg) γ (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1686	1684	1685	1685	1684	1684	1684	1683	1683	1687	1685	1686	1686	1684	1685
5.0	1680	1677	1678	1675	1676	1673	1676	1672	1676	1672	1677	1676	1674	1677	1675
10.0	1660	1652	1655	1648	1652	1646	1649	1644	1649	1646	1652	1648	1647	1652	1650
15.0	1621	1613	1617	1607	1611	1603	1608	1604	1607	1603	1612	1605	1604	1612	1607
20.0	1570	1558	1562	1550	1556	1546	1551	1543	1552	1545	1555	1547	1546	1556	1552
25.0	1502	1489	1495	1482	1487	1474	1480	1470	1481	1472	1483	1475	1476	1487	1480
30.0	1425	1407	1416	1399	1407	1392	1404	1391	1401	1390	1402	1392	1392	1408	1397
35.0	1332	1312	1322	1303	1314	1297	1308	1293	1307	1294	1309	1298	1297	1313	1304
40.0	1230	1208	1219	1199	1210	1191	1205	1187	1203	1186	1206	1192	1191	1210	1200
45.0	1121	1098	1110	1087	1100	1079	1097	1074	1092	1075	1094	1080	1076	1101	1086
50.0	1001	975	990	964	980	956	974	953	972	952	976	957	957	980	966
55.0	873	846	861	835	852	827	846	823	846	824	847	828	827	851	836
60.0	743	714	731	703	722	695	716	692	713	692	716	695	692	721	701
65.0	603	573	591	562	582	554	575	551	574	551	577	555	554	582	563
70.0	461	429	452	418	440	411	434	407	436	407	438	411	412	440	419
75.0	321	297	309	299	300	299	295	258	294	297	297	297	297	301	298
80.0	188	147	181	137	174	132	171	130	171	132	173	135	135	176	139
85.0	80.8	42.2	69.5	34.9	64.0	34.7	63.5	34.4	63.2	34.5	64.7	37.0	37.7	64.2	39.0
90.0	16.3	4.00	13.2	3.70	12.7	3.80	13.3	4.00	13.9	4.10	14.0	4.00	4.30	13.3	3.80
95.0	11.3	4.60	11.1	4.50	11.2	4.50	11.2	4.60	11.2	4.60	11.2	4.50	5.00	11.2	4.50
100.0	10.9	5.20	10.9	5.30	10.8	5.40	10.9	5.40	10.9	5.50	10.9	5.40	5.90	10.9	5.30
105.0	10.9	6.10	10.7	6.10	10.8	6.20	10.9	6.30	10.9	6.30	10.9	6.20	6.70	10.9	6.20
110.0	11.0	6.90	10.8	6.90	10.9	7.00	11.1	7.10	11.1	7.10	11.0	7.00	7.60	11.1	7.00
115.0	11.2	7.60	11.1	7.70	11.2	7.90	11.3	7.90	11.4	7.90	11.3	7.80	8.50	11.4	7.90
120.0	11.5	8.40	11.4	8.50	11.5	8.60	11.7	8.70	11.7	8.70	11.5	8.60	9.40	11.8	8.70
125.0	12.1	9.20	11.8	9.20	11.9	9.40	12.2	9.40	12.1	9.50	12.1	9.40	10.2	12.2	9.40
130.0	12.5	10.0	12.2	10.0	12.4	10.1	12.6	10.2	12.6	10.2	12.5	10.2	11.1	12.7	10.2
135.0	13.0	10.7	12.7	10.7	12.8	10.9	13.0	10.8	13.0	10.9	13.0	11.0	12.1	13.2	10.9
140.0	13.5	11.4	13.0	11.4	13.3	11.5	13.5	11.4	13.4	11.5	13.5	11.8	12.5	13.7	11.5
145.0	14.1	12.1	13.6	12.0	13.7	12.2	13.9	12.1	13.7	12.2	13.9	12.5	13.5	14.2	12.3
150.0	14.4	12.7	14.0	12.6	14.2	12.8	14.2	12.7	14.2	12.7	14.3	13.0	13.7	14.5	12.9
155.0	15.2	13.3	14.5	13.2	14.5	13.3	14.5	13.2	14.5	13.3	14.7	13.6	14.1	15.0	13.3
160.0	15.2	13.7	14.9	13.7	14.8	13.7	14.8	13.7	14.9	13.7	14.9	14.0	14.7	15.2	13.6
165.0	16.1	14.1	15.0	14.0	15.0	14.1	15.0	14.0	15.0	14.0	15.0	14.1	14.9	15.2	13.9
170.0	15.5	14.4	15.2	14.3	15.2	14.3	15.2	14.2	15.2	14.3	15.2	14.5	15.2	15.2	14.2
175.0	16.1	14.7	15.2	14.5	15.2	14.5	15.5	14.4	15.4	14.5	15.6	14.9	15.7	15.9	14.7
180.0	15.6	14.8	15.2	14.8	15.2	14.7	15.5	14.7	15.2	14.8	15.2	14.7	15.6	15.2	14.8

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UNIT: cd

C(deg) γ (deg)	225	240	255	270	285	300	315	330	345
0.0	1685	1684	1684	1684	1683	1683	1687	1685	1686
5.0	1678	1677	1679	1679	1680	1678	1680	1679	1682
10.0	1655	1652	1657	1657	1661	1655	1658	1654	1658
15.0	1617	1612	1621	1617	1622	1616	1624	1616	1622
20.0	1564	1558	1569	1563	1573	1563	1572	1562	1570
25.0	1496	1489	1502	1495	1505	1496	1507	1494	1501
30.0	1416	1406	1424	1413	1428	1415	1427	1411	1424
35.0	1323	1314	1332	1324	1337	1324	1336	1321	1333
40.0	1221	1210	1230	1220	1235	1222	1234	1218	1230
45.0	1111	1096	1121	1106	1127	1108	1125	1104	1120
50.0	991	977	1002	987	1006	989	1006	985	1000
55.0	863	848	874	858	881	860	879	855	873
60.0	732	713	744	722	749	725	749	721	742
65.0	593	575	605	584	611	587	610	583	604
70.0	451	431	462	440	468	444	468	439	461
75.0	311	299	322	301	328	301	327	301	321
80.0	182	149	189	157	191	159	190	155	189
85.0	70.9	45.5	79.0	51.7	83.7	53.7	82.5	49.7	77.3
90.0	13.6	3.90	15.7	4.60	18.0	5.60	18.2	5.20	16.5
95.0	11.3	4.50	11.4	4.40	11.4	4.40	11.3	4.40	11.3
100.0	10.9	5.30	10.9	5.30	11.0	5.40	10.9	5.20	10.9
105.0	10.8	6.10	10.9	6.10	10.8	6.10	10.8	6.10	10.8
110.0	11.0	6.90	11.0	6.90	11.0	7.00	11.0	6.90	10.9
115.0	11.3	7.70	11.2	7.70	11.2	7.70	11.2	7.70	11.2
120.0	11.5	8.60	11.5	8.50	11.5	8.40	11.5	8.50	11.5
125.0	12.0	9.30	12.0	9.30	11.9	9.20	11.9	9.20	12.0
130.0	12.5	10.1	12.4	10.0	12.4	10.0	12.4	10.0	12.4
135.0	12.9	10.8	12.8	10.7	12.8	10.7	12.8	10.7	12.9
140.0	13.4	11.4	13.2	11.4	13.3	11.4	13.2	11.3	13.3
145.0	13.7	11.9	13.6	12.0	13.7	12.0	13.6	12.0	13.7
150.0	14.2	12.5	14.0	12.5	14.1	12.6	14.1	12.6	14.2
155.0	14.4	13.0	14.4	13.0	14.5	13.0	14.4	13.0	14.5
160.0	14.7	13.6	14.7	13.5	14.8	13.5	14.8	13.7	14.9
165.0	15.0	13.9	14.9	13.9	15.0	13.7	15.0	14.1	15.2
170.0	15.2	14.2	15.2	14.3	15.2	14.1	15.0	14.3	15.2
175.0	15.2	14.4	15.2	14.5	15.2	14.4	15.2	14.5	15.4
180.0	15.2	14.7	15.2	14.9	15.2	14.7	15.2	14.8	15.2

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