





Project No: 10021186
Report No: 10021186-12
Issued Date: 2013-JUN-27
Revision:

Verification Services Test Report

Customer Company & Address
Acrilux SRL S.P. 571 Km 10+983 62019 Recanati (MC) Italia

Manufacturer:	Acrilux SRL
Country of Origin:	Italy
Country of Export:	N/A
Product Category:	URBAN LED STRADALE 1050 mA
Product Description:	LED outdoor luminaire
Model Number(s):	URBAN LED STRADALE 1050 mA
ECG Model:	VOSSLOH SCHWABE LEDline Type ECXe 1050.021 Ref: 186199
Electrical Ratings:	230Vac 50Hz
Test Sample(s) Received Date:	2013-JUN-21
Test Period:	2013-JUN-24 to 2013-JUN-24
The Sample(s) is(are) tested in accordance with the following:	
UNI 11356:2010	

Prepared By	Approved By
Giovanni Di Martino 	Walter Parmiani 
Name & Signatory	Name & Signatory

This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



UL International Italia S.r.l.
Via XXV Aprile 3/B
20875 Burago di Molgora (MB) Italy
NVLAP Lab Code: 200985-0



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Statement of Results

Test Flow	Test Method	Sample ID	Test Result
1.	Goniophotometer	014008-S001	Evaluated by Customer

Measurement Uncertainty

N/A

Deviation from Test Method (if any)

N/A

Remarks (if any)

N/A



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Test No. 1: Goniophotometer

Sample ID / Test Round Number

014008-S001 / 1

Environmental Conditions

Ambient Temperature
25 °C

Test Equipment

Local ID	Description	Model	Last cal	Next cal
BURVS0074	Goniophotometer system	LSI 6440T	03/jun/2013	By evidence
BURVS0078	AC PSU	ELGAR CW 1251	Reference only	Reference only
BURVS0077	Digital power meter	Yokogawa WT210	12/jul/2012	12/jul/2013
BURVS0079	THERMOMETER	OMEGA MDSi8	16/jul/2012	16/jul/2013
BURVS0061	OMNIDIRECTIONAL CALIBRATION LAMP	STS STD-EHD 12C050	25/jun/2012	25/jun/2015

Test Condition(s)

Input Voltage	Input Current	Input Power	Power Factor
229.95 V	0.29 A	64.37 W	0.99

Test Results

Result Name	Result
Test Date	2013-JUN-24 12:55:00 PM
Current THD	15.2 %
Luminous Flux	3256.6 lm
Luminous Efficacy	50.6 lm/W
Luminous Opening Length	150.0 mm
Luminous Opening Width	150.0 mm
Luminous Opening Height	0.0 mm



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Photo of Sample(s)

Sample



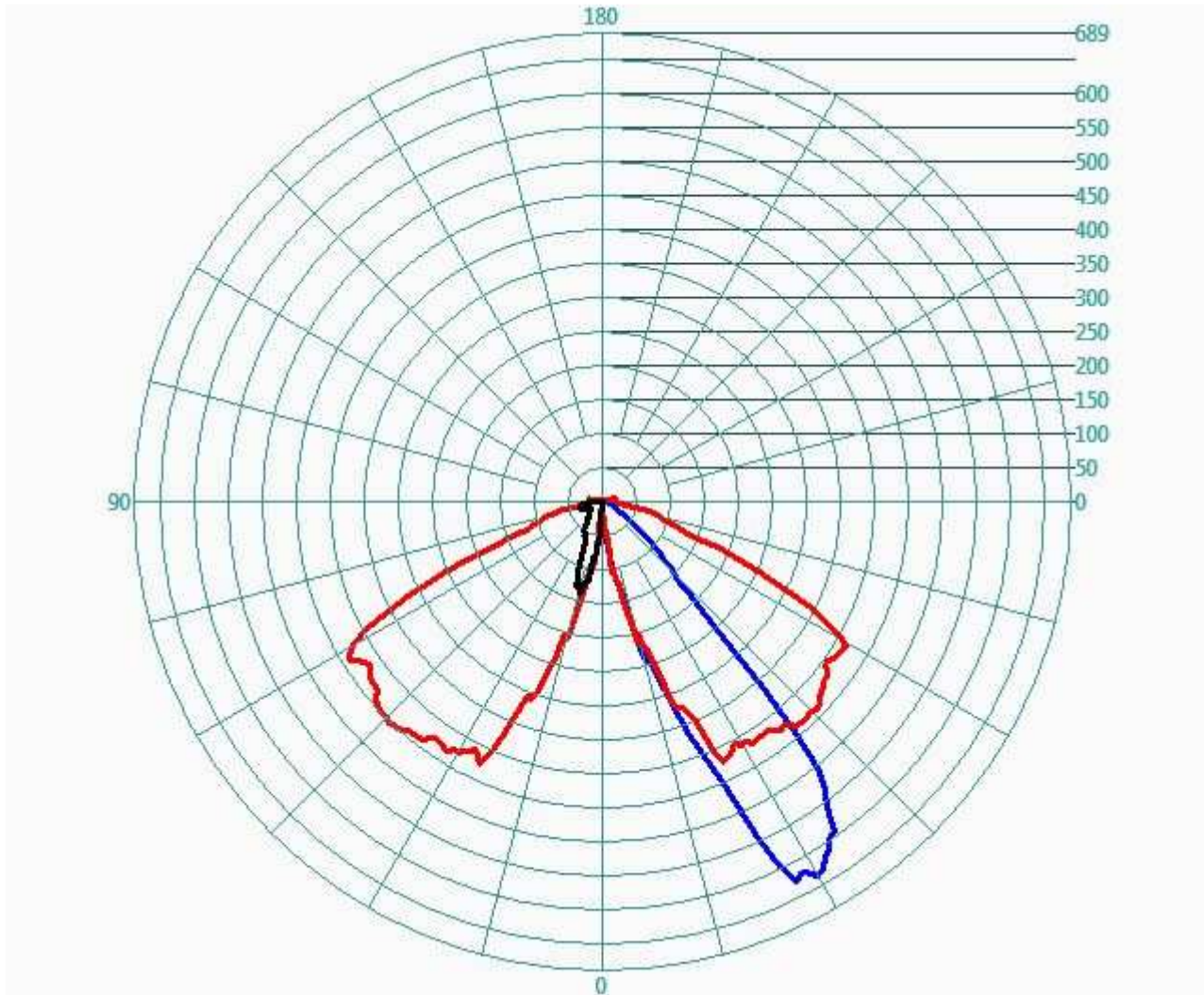
Goniophotometer set-up





Verification Services Test Report

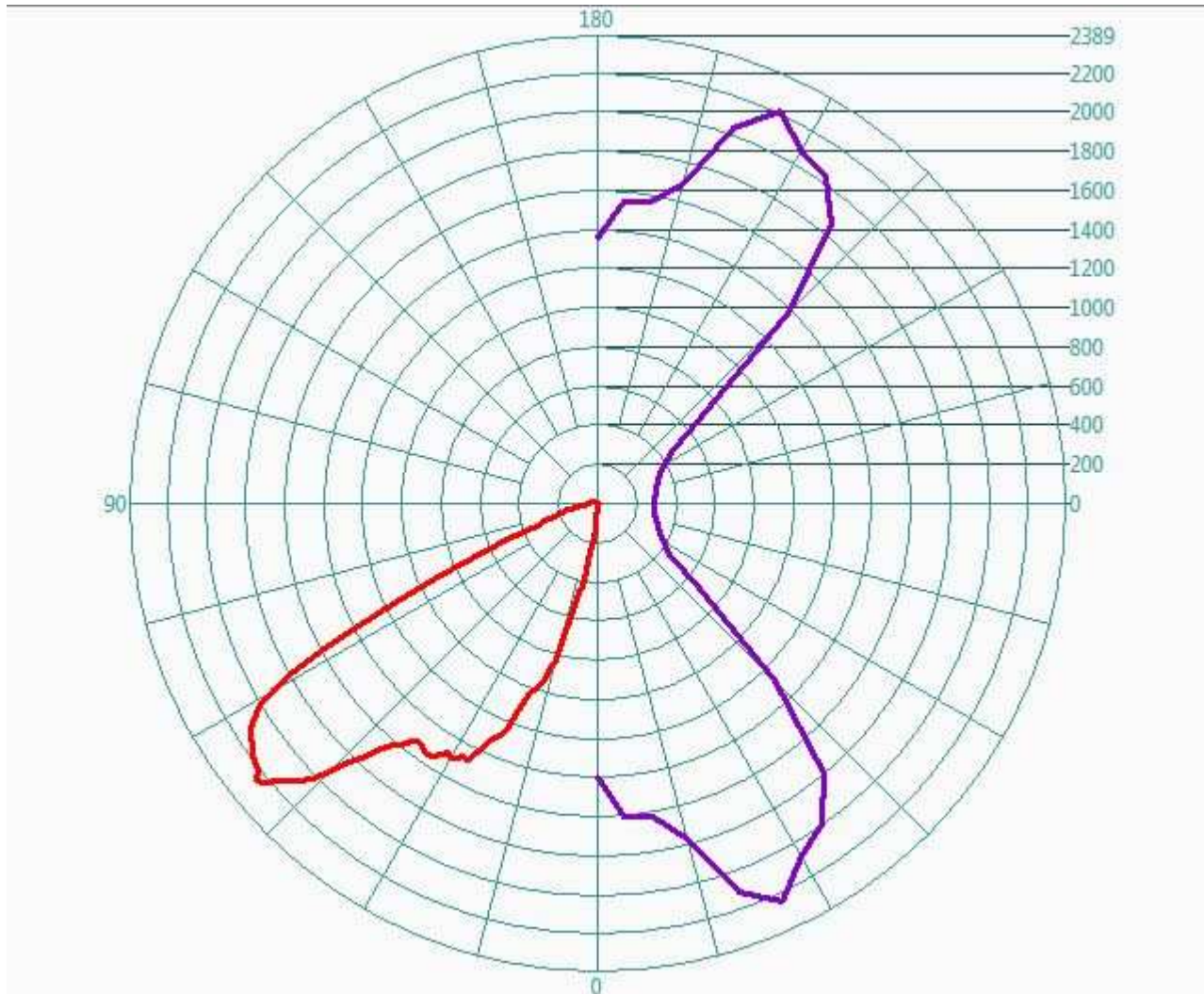
Polar diagram (cd/Klm)





Verification Services Test Report

Max cone and plane (cd)

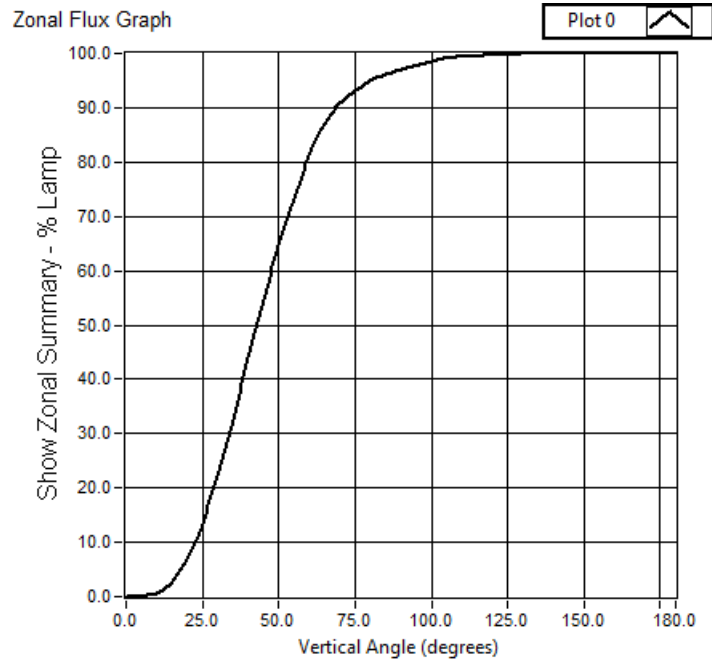




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Zonal Lumen Summary

	Summary Zonal Lumens	Zonal Lumens - % Lamp	Zonal Lumens - % Fixture
0 to 30	693.04	21.28	21.28
0 to 40	1391.29	42.72	42.72
0 to 60	2616.52	80.35	80.35
0 to 90	3156.25	96.92	96.92
40 to 90	1764.96	54.20	54.20
60 to 90	539.74	16.57	16.57
90 to 180	100.31	3.08	3.08
0 to 180	3256.56	100.00	100.00



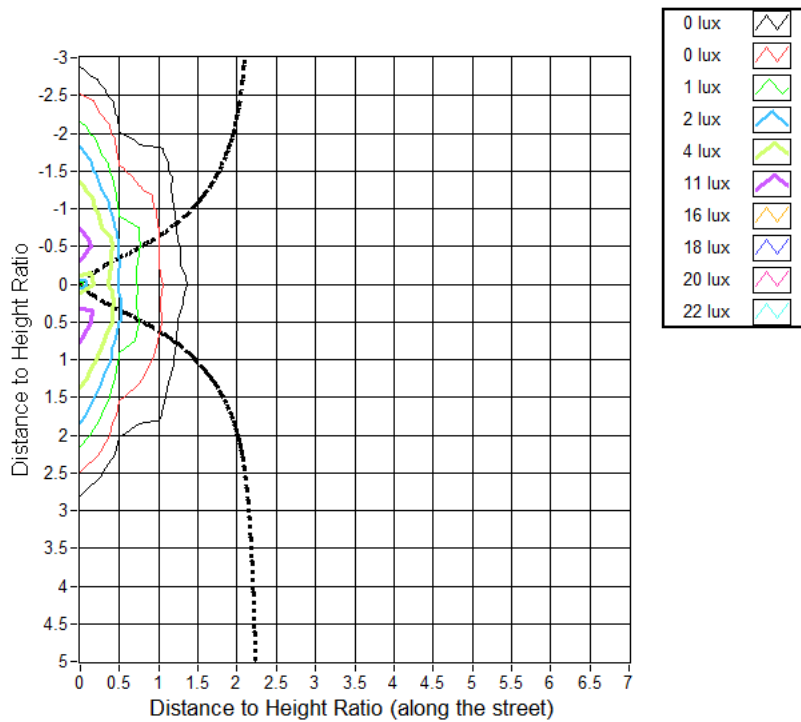


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Isolluminance Merged Chart

House Side

Illuminance Contour Graph



Street Side

Total Forward Light - Street Side

BACKWARD (lm)	(%)	BL (0 to 30 deg)	BL (%)	BM (30 to 60 deg)	BM (%)	BH (60 to 80 deg)	BH (%)	BVH (80 to 90 deg)	BVH (%)
1580.50	48.53	349.26	10.72	964.87	29.63	231.46	7.11	34.91	1.07

Total Backward Light - House Side

FORWARD (lm)	(%)	FL (0 to 30 deg)	FL (%)	FM (30 to 60 deg)	FM (%)	FH (60 to 80 deg)	FH (%)	FVH (80 to 90 deg)	FVH (%)
1575.42	48.38	343.79	10.56	958.47	29.43	237.58	7.30	35.58	1.09



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Luminous Intensity Values - Street Side

0	0.00	5.00	15.00	25.00	35.00	45.00	55.00	65.00	75.00	85.00
0.00	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
5.00	55.8	70.0	64.6	57.0	63.7	79.3	57.3	55.1	44.3	29.7
10.00	304.7	330.9	370.7	432.7	403.6	304.5	411.0	472.4	396.9	429.9
15.00	687.2	699.3	798.1	852.8	756.0	787.3	715.7	745.8	826.0	801.1
20.00	1008.9	978.7	1144.9	1048.5	1073.8	1203.9	1145.1	1075.6	1110.7	1197.6
25.00	1391.0	1338.1	1415.5	1380.3	1384.9	1517.8	1595.2	1682.7	1677.4	1729.7
30.00	1388.2	1391.2	1427.8	1498.1	1592.5	1871.5	1976.6	2065.1	2033.4	2027.8
35.00	1383.4	1445.4	1460.6	1545.1	1754.3	2133.2	2139.2	1984.5	2002.8	1921.1
40.00	1431.3	1471.1	1481.0	1611.8	2016.4	2147.9	1992.2	1788.5	1586.4	1521.4
45.00	1461.9	1557.8	1593.9	1937.9	2107.7	2032.7	1542.0	721.2	525.1	501.1
50.00	1410.7	1603.6	1736.6	2219.2	2023.6	1522.8	505.9	388.3	333.5	316.9
51.00	1395.5	1602.3	1773.1	2243.1	1996.7	1280.9	452.2	355.3	306.0	288.8
55.00	1357.2	1612.3	1960.9	2157.9	1702.2	491.7	304.6	223.6	190.5	180.1
60.00	1374.0	1758.9	2127.8	1909.5	698.9	226.4	161.6	131.7	131.4	114.8
65.00	921.5	1283.8	1378.8	959.0	262.2	147.9	117.3	88.8	80.1	74.3
70.00	388.0	523.5	600.4	329.0	166.3	127.3	91.9	62.2	66.8	72.7
75.00	277.9	360.0	355.8	194.8	110.9	83.8	62.1	53.3	50.6	53.9
80.00	142.1	184.2	181.0	109.3	72.9	45.6	39.7	36.0	36.0	34.0
85.00	73.0	75.8	64.4	51.2	45.0	29.4	24.9	22.3	21.7	19.4
90.00	59.0	58.7	50.5	40.4	34.8	21.2	16.1	12.7	13.2	11.4

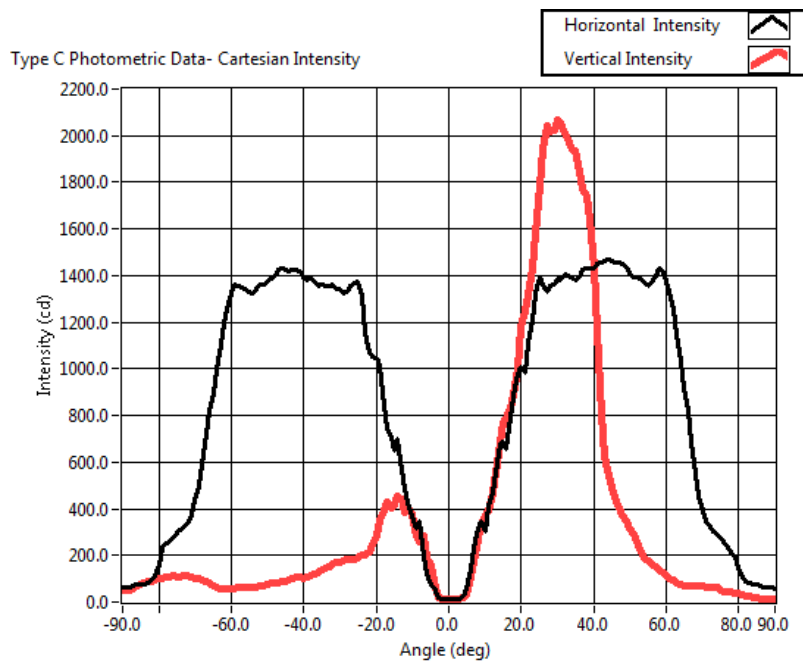
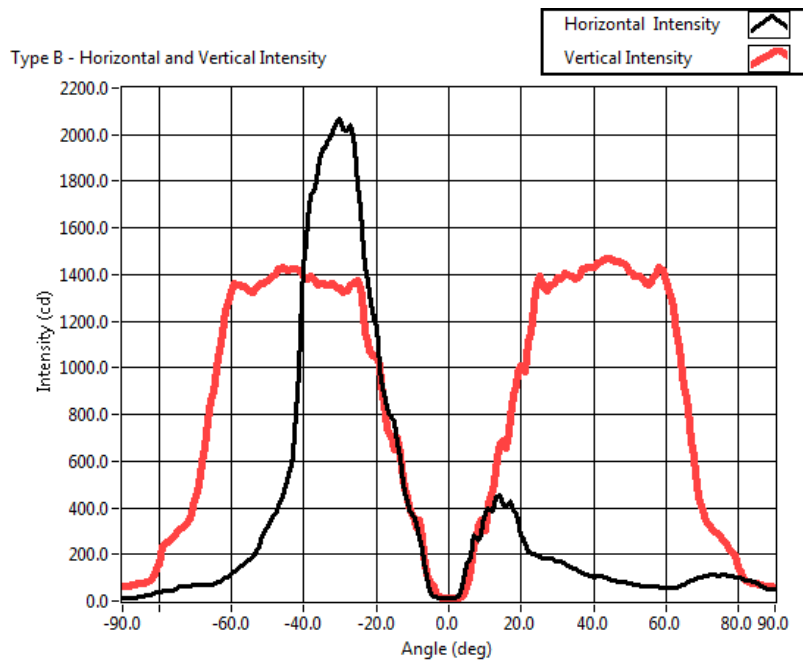
Luminous Intensity Values - House Side

0	90.00	95.00	105.00	115.00	125.00	135.00	145.00	155.00	165.00	175.00	180.00
0.00	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
5.00	30.2	44.0	67.4	69.0	72.0	70.7	60.7	64.5	80.8	85.6	77.5
10.00	374.0	381.3	442.1	441.8	343.3	317.9	432.1	405.9	338.4	327.2	375.0
15.00	771.2	769.7	773.6	716.4	753.4	799.2	748.8	752.6	744.7	686.2	651.4
20.00	1177.0	1175.1	1122.6	1129.6	1117.7	1111.1	1020.7	1026.7	1122.8	1007.5	1045.8
25.00	1783.7	1734.6	1695.8	1652.9	1521.4	1516.0	1346.2	1326.5	1377.6	1341.0	1372.7
30.00	2070.0	2102.0	2079.8	2016.7	1923.0	1764.0	1572.3	1461.1	1371.4	1402.0	1343.0
35.00	1935.0	1939.2	1942.2	2051.4	2114.3	2063.5	1747.7	1500.6	1419.8	1389.6	1363.6
40.00	1436.9	1514.6	1629.8	1824.5	1984.9	2185.9	2038.6	1594.7	1451.3	1454.3	1390.1
45.00	491.8	496.8	540.5	827.4	1649.5	2045.2	2142.8	1869.1	1544.3	1517.8	1425.3
50.00	318.0	320.9	338.1	386.6	522.4	1607.4	2067.4	2187.2	1654.2	1548.6	1376.4
51.00	293.1	291.4	310.8	354.0	456.6	1376.6	2029.1	2210.2	1689.7	1544.5	1360.8
55.00	177.2	176.7	193.1	236.6	308.2	532.0	1816.9	2173.0	1889.0	1547.1	1327.1
60.00	113.7	113.3	128.2	131.2	157.9	241.1	760.5	1956.6	2089.2	1672.4	1323.7
65.00	72.3	74.9	80.1	90.1	119.6	146.9	253.7	1053.4	1494.8	1269.2	896.3
70.00	69.2	71.7	66.6	64.1	92.5	135.4	153.0	338.6	645.6	607.2	436.4
75.00	52.5	52.8	49.8	52.1	65.9	95.6	112.5	186.5	371.6	386.3	298.8
80.00	36.7	33.5	33.3	36.9	42.1	51.0	71.8	102.1	192.2	207.9	159.6
85.00	17.2	19.4	21.3	21.8	26.0	32.6	45.0	52.0	70.9	75.0	75.1
90.00	11.6	11.7	13.0	13.3	16.9	23.2	35.9	41.9	52.1	57.6	61.1



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Cartesian Intensity





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Candela Table (cd)

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
0.0	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.0	13	13	13	13	14	13	14	14	14	14	14	14	14	14	14
2.0	13	13	13	14	17	14	14	14	14	14	14	14	14	14	14
3.0	14	14	14	14	25	22	24	15	21	15	15	15	15	15	15
4.0	24	18	18	27	42	36	42	31	43	26	27	25	24	17	17
5.0	56	70	67	65	92	57	114	64	97	79	74	57	64	55	49
6.0	141	143	103	105	122	127	158	161	131	136	112	105	102	86	87
7.0	236	195	177	187	159	181	206	139	124	105	114	117	111	124	142
8.0	315	278	256	276	357	251	219	182	222	147	141	157	168	186	191
9.0	349	345	324	353	464	402	281	294	309	223	236	274	320	388	359
10.0	305	331	367	371	490	433	397	404	430	304	334	411	397	472	442
11.0	413	384	400	422	520	448	448	461	472	406	446	494	558	495	495
12.0	471	460	422	527	592	459	455	483	621	566	497	555	496	475	504
13.0	556	531	550	580	709	625	559	615	720	767	618	593	544	485	497
14.0	675	656	647	708	780	646	617	698	784	749	711	636	694	609	652
15.0	687	699	699	798	811	853	684	756	824	787	747	716	748	746	788
16.0	655	736	750	842	863	872	814	816	879	789	793	826	916	854	900
17.0	788	765	841	873	911	962	970	908	946	854	922	987	949	964	938
18.0	880	813	862	931	924	978	1023	1009	992	989	1013	1047	1071	996	955
19.0	979	936	957	996	1046	1013	1041	1046	1101	1083	1068	1142	1117	1037	1027
20.0	1009	979	1086	1145	1092	1049	1095	1074	1164	1204	1139	1145	1108	1076	1140
21.0	986	1054	1168	1201	1140	1144	1157	1173	1223	1271	1212	1235	1190	1156	1303
22.0	1107	1090	1205	1223	1187	1246	1239	1234	1246	1297	1248	1377	1375	1369	1347
23.0	1204	1169	1255	1250	1247	1288	1288	1270	1360	1345	1298	1419	1461	1491	1466
24.0	1325	1270	1367	1292	1249	1315	1298	1316	1386	1463	1374	1510	1541	1621	1497
25.0	1391	1338	1393	1416	1353	1380	1344	1385	1460	1518	1509	1595	1621	1683	1642
26.0	1364	1341	1447	1423	1404	1414	1385	1499	1486	1558	1581	1697	1648	1727	1823
27.0	1327	1380	1408	1428	1477	1473	1473	1517	1597	1599	1606	1751	1778	1876	1923
28.0	1353	1404	1401	1414	1463	1463	1494	1543	1612	1689	1729	1830	1841	2033	2043
29.0	1360	1398	1394	1405	1459	1486	1476	1538	1664	1767	1804	1977	1936	2071	2080
30.0	1388	1391	1416	1428	1436	1498	1510	1593	1684	1872	1900	1977	2029	2065	2087
31.0	1379	1395	1416	1439	1460	1483	1509	1617	1730	1901	1977	2014	2056	2102	2094
32.0	1406	1403	1418	1455	1464	1513	1494	1627	1783	1927	2032	2077	2086	2110	2086
33.0	1397	1411	1422	1461	1469	1535	1547	1650	1852	1973	2072	2099	2076	2081	2056
34.0	1390	1420	1470	1458	1495	1548	1577	1685	1902	2051	2121	2137	2063	2029	2060
35.0	1383	1445	1469	1461	1488	1545	1584	1754	1929	2133	2145	2139	2046	1985	2032
36.0	1396	1451	1473	1479	1515	1532	1613	1818	1974	2146	2153	2110	2047	1988	1994
37.0	1422	1455	1497	1480	1521	1526	1651	1865	2036	2163	2149	2086	2027	1982	1950
38.0	1430	1444	1493	1461	1533	1546	1693	1913	2072	2151	2103	2019	2020	1928	1884
39.0	1432	1444	1471	1470	1523	1593	1755	1952	2045	2169	2095	1985	1984	1854	1783
40.0	1431	1471	1490	1481	1532	1612	1831	2016	2091	2148	2065	1992	1899	1788	1705
41.0	1447	1515	1508	1488	1535	1649	1922	2047	2099	2136	2045	1932	1833	1687	1566
42.0	1458	1546	1515	1533	1560	1708	1999	2113	2077	2094	2036	1877	1744	1558	1373
43.0	1465	1544	1550	1562	1588	1772	2050	2138	2065	2063	2011	1785	1633	1350	1088
44.0	1470	1550	1575	1565	1659	1853	2092	2098	2079	2058	1932	1660	1463	976	778
45.0	1462	1558	1574	1594	1719	1938	2105	2108	2064	2033	1862	1542	1185	721	605
46.0	1458	1568	1584	1595	1776	2025	2117	2082	2055	1979	1747	1338	869	600	519
47.0	1456	1581	1587	1635	1858	2081	2124	2074	2011	1910	1544	1074	655	516	467
48.0	1447	1590	1598	1683	1921	2117	2100	2067	1974	1814	1386	792	527	463	420
49.0	1437	1599	1610	1702	1979	2166	2098	2040	1927	1704	1140	616	466	423	384
50.0	1411	1604	1612	1737	2032	2219	2107	2024	1871	1523	864	506	427	388	354
51.0	1396	1602	1620	1773	2108	2243	2076	1997	1794	1281	674	452	393	355	325
52.0	1395	1595	1632	1825	2136	2202	2022	1967	1676	826	546	413	356	328	297
53.0	1388	1590	1662	1856	2151	2191	2020	1903	1487	771	470	377	326	302	273



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Candela Table (cd)

	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.0	14	14	15	15	15	15	15	15	15	14	14	14	14	14	14
2.0	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
3.0	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16
4.0	17	17	17	17	18	19	21	29	29	26	31	31	30	27	25
5.0	44	34	30	30	44	54	67	72	69	70	72	68	71	66	61
6.0	104	86	114	110	103	101	89	84	92	91	86	81	99	100	95
7.0	161	183	200	173	150	136	124	115	114	115	101	94	104	102	105
8.0	234	236	286	272	266	230	205	186	170	166	151	132	165	186	200
9.0	341	368	399	334	335	361	357	312	271	274	259	266	259	263	338
10.0	397	407	430	374	381	397	442	410	442	398	343	311	318	408	432
11.0	418	409	442	393	415	436	470	453	508	503	417	395	465	417	433
12.0	487	455	503	467	453	463	484	444	486	476	514	588	518	489	477
13.0	554	528	596	552	555	523	519	517	547	621	631	709	668	583	608
14.0	700	647	722	680	735	662	626	576	639	636	693	720	757	672	653
15.0	826	728	801	771	770	803	774	757	716	742	753	752	799	737	749
16.0	874	764	815	788	762	869	857	909	833	831	802	790	819	812	863
17.0	905	808	846	831	812	889	878	941	960	910	924	919	943	885	995
18.0	963	890	915	891	871	1004	885	1012	1006	1000	1078	1023	1007	971	1002
19.0	965	963	1019	1001	960	1045	991	1082	1070	1055	1074	1102	1089	1016	1010
20.0	1111	1146	1198	1177	1175	1155	1123	1141	1130	1082	1118	1211	1111	1107	1021
21.0	1263	1340	1290	1250	1346	1349	1302	1209	1191	1178	1290	1240	1194	1205	1161
22.0	1427	1445	1418	1315	1414	1421	1411	1357	1377	1340	1310	1276	1244	1308	1231
23.0	1456	1462	1464	1433	1464	1447	1547	1470	1535	1469	1329	1305	1286	1334	1321
24.0	1531	1574	1561	1580	1543	1526	1600	1543	1600	1525	1393	1428	1397	1405	1317
25.0	1677	1799	1730	1784	1735	1695	1696	1638	1653	1593	1521	1555	1516	1458	1346
26.0	1883	1975	1893	1944	1937	1887	1878	1750	1702	1674	1611	1617	1533	1466	1405
27.0	2032	2085	1979	2044	2048	2045	1976	1936	1820	1737	1630	1644	1577	1472	1449
28.0	2085	2084	1994	2015	2093	2108	2004	2073	1899	1843	1746	1716	1615	1560	1502
29.0	2042	2047	2022	2022	2121	2105	2047	2152	1980	1956	1872	1774	1685	1607	1536
30.0	2033	2029	2028	2070	2102	2105	2080	2120	2017	2007	1923	1828	1764	1630	1572
31.0	2031	2009	1988	2052	2053	2091	2037	2078	2063	2040	2003	1903	1785	1677	1566
32.0	2063	1986	2007	2010	2035	2072	1975	2067	2088	2117	2078	1949	1876	1685	1630
33.0	2049	1934	2030	1985	1991	1986	1985	2021	2088	2117	2095	2028	1944	1741	1660
34.0	1965	1925	2005	1943	2010	1979	1940	2009	2049	2122	2117	2067	1999	1798	1704
35.0	2003	1923	1921	1935	1939	1968	1942	1976	2051	2053	2114	2123	2063	1863	1748
36.0	1926	1917	1886	1846	1923	1929	1923	1959	2044	2013	2079	2161	2123	1931	1798
37.0	1878	1839	1838	1768	1862	1865	1865	1923	2008	1982	2072	2143	2186	2009	1862
38.0	1794	1745	1765	1740	1784	1765	1779	1873	1961	1967	2055	2113	2239	2047	1947
39.0	1691	1638	1694	1637	1706	1700	1718	1790	1910	1946	2035	2101	2224	2101	1996
40.0	1586	1519	1521	1437	1515	1555	1630	1709	1824	1878	1985	2080	2186	2110	2039
41.0	1404	1286	1238	1158	1217	1333	1440	1587	1732	1834	1953	2070	2165	2143	2088
42.0	1135	933	884	810	866	993	1187	1432	1657	1798	1914	2039	2146	2153	2150
43.0	809	692	665	624	656	717	848	1152	1473	1673	1831	1976	2107	2137	2153
44.0	612	568	568	540	557	577	639	816	1171	1514	1752	1910	2072	2113	2142
45.0	525	506	501	492	497	506	540	628	827	1271	1649	1857	2045	2098	2143
46.0	473	457	443	448	453	455	485	536	631	960	1445	1781	2016	2067	2123
47.0	436	425	406	402	417	415	441	488	531	694	1174	1647	1949	2056	2099
48.0	397	388	376	372	383	382	400	439	469	550	862	1457	1851	2025	2092
49.0	363	356	346	345	354	352	367	398	420	474	656	1193	1755	1974	2084
50.0	333	325	317	318	321	323	338	356	387	429	522	911	1607	1929	2067
51.0	306	297	289	293	291	298	311	323	354	393	457	690	1377	1859	2029
52.0	285	269	257	256	257	270	286	298	323	357	410	547	1117	1758	1988
53.0	255	233	218	216	218	232	253	274	294	325	375	455	849	1606	1927



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Candela Table (cd)

	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0	200.0	205.0	210.0	215.0	220.0
0.0	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.0	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
2.0	15	15	15	15	15	15	15	15	16	16	17	17	17	17	17
3.0	16	16	16	16	16	17	19	22	32	38	45	49	47	46	46
4.0	24	20	20	21	28	43	62	71	71	67	68	90	90	74	65
5.0	68	65	58	81	112	86	77	69	73	76	73	80	105	102	84
6.0	132	127	160	153	152	140	122	89	90	96	108	99	104	111	89
7.0	149	209	179	172	165	165	195	186	191	160	182	194	192	230	219
8.0	268	262	257	294	328	337	348	288	269	305	257	214	207	236	211
9.0	353	361	327	308	312	304	315	369	384	409	367	337	252	271	290
10.0	381	406	369	338	329	327	375	414	345	429	371	387	423	468	403
11.0	427	407	418	429	422	452	404	423	390	410	394	433	424	532	547
12.0	446	434	462	486	507	492	487	456	452	455	533	510	459	557	552
13.0	574	536	509	588	536	537	568	562	593	531	559	515	504	517	593
14.0	636	615	646	690	669	698	702	628	699	622	580	517	506	534	543
15.0	719	753	721	745	667	686	651	698	757	695	727	650	553	600	575
16.0	853	774	779	763	735	695	704	695	772	747	770	719	645	627	588
17.0	901	863	798	779	782	860	744	747	753	825	767	789	677	690	606
18.0	956	935	893	854	912	838	842	873	851	868	812	819	692	713	660
19.0	989	1000	982	983	1016	977	1015	1010	913	901	834	865	755	736	691
20.0	1047	1027	1151	1123	1082	1007	1046	1038	1013	1015	901	932	832	796	727
21.0	1155	1191	1170	1107	1130	1018	1055	1015	1004	1049	942	976	813	827	691
22.0	1255	1246	1165	1122	1118	1133	1070	1019	1054	1041	934	956	837	808	684
23.0	1313	1262	1202	1188	1195	1195	1151	1126	1142	1035	907	896	851	797	694
24.0	1282	1237	1256	1215	1334	1284	1311	1266	1187	1050	996	914	876	769	688
25.0	1347	1327	1352	1378	1362	1341	1373	1298	1230	1145	1007	905	830	724	650
26.0	1414	1380	1458	1416	1378	1361	1368	1311	1243	1126	1054	927	800	674	586
27.0	1503	1441	1461	1415	1382	1343	1355	1295	1216	1107	1045	922	790	652	521
28.0	1507	1449	1414	1383	1396	1371	1332	1265	1198	1066	1020	875	751	601	448
29.0	1495	1461	1410	1382	1400	1353	1322	1259	1169	1063	969	840	690	524	383
30.0	1519	1461	1409	1371	1388	1402	1343	1262	1178	1063	909	778	636	462	320
31.0	1507	1477	1413	1385	1382	1390	1343	1235	1166	1054	880	715	581	391	279
32.0	1494	1487	1424	1378	1376	1399	1362	1251	1161	1025	861	656	499	335	254
33.0	1512	1473	1437	1402	1367	1382	1358	1242	1131	986	812	601	438	293	241
34.0	1556	1463	1462	1402	1378	1386	1358	1241	1118	954	761	545	384	261	234
35.0	1578	1501	1451	1420	1392	1390	1364	1234	1088	920	725	490	335	244	228
36.0	1621	1510	1470	1411	1401	1420	1357	1259	1073	873	666	452	292	233	228
37.0	1647	1509	1473	1441	1401	1456	1372	1230	1058	846	627	404	261	223	230
38.0	1695	1531	1474	1458	1423	1450	1393	1219	1030	809	586	367	243	219	234
39.0	1740	1561	1477	1443	1442	1442	1378	1219	1028	788	547	335	230	217	240
40.0	1802	1595	1499	1451	1459	1454	1390	1224	1012	761	505	298	224	212	242
41.0	1867	1623	1503	1479	1489	1466	1421	1239	1000	737	472	274	217	209	242
42.0	1939	1681	1533	1494	1522	1515	1422	1252	1008	716	430	253	209	211	242
43.0	1982	1742	1569	1518	1551	1529	1427	1254	989	682	394	237	203	213	243
44.0	2063	1803	1612	1550	1562	1531	1417	1223	968	657	367	230	200	219	240
45.0	2097	1869	1648	1544	1550	1518	1425	1189	928	616	340	224	193	223	240
46.0	2130	1962	1685	1555	1592	1550	1429	1206	909	577	313	221	191	222	240
47.0	2147	2018	1756	1584	1598	1553	1422	1188	886	548	288	215	188	219	238
48.0	2135	2093	1862	1602	1573	1554	1402	1165	861	512	273	210	186	216	236
49.0	2140	2145	1906	1609	1573	1563	1388	1156	842	469	255	206	186	208	228
50.0	2119	2187	1967	1654	1577	1549	1376	1123	815	434	243	201	184	195	210
51.0	2085	2210	2042	1690	1569	1545	1361	1108	773	400	234	198	180	185	186
52.0	2070	2231	2096	1748	1586	1541	1365	1090	744	367	226	193	177	180	166
53.0	2077	2238	2116	1798	1595	1550	1343	1085	711	337	217	188	174	180	156



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Candela Table (cd)

	225.0	230.0	235.0	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.0	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13
2.0	17	16	17	16	16	16	15	14	14	14	14	14	14	14	14
3.0	51	45	45	46	45	44	39	33	25	21	24	27	33	41	37
4.0	61	59	62	64	65	77	78	81	110	86	79	69	72	74	64
5.0	80	82	86	89	89	113	102	117	129	155	124	114	111	102	88
6.0	106	108	123	183	187	196	187	163	168	189	170	166	166	156	126
7.0	200	198	200	235	214	245	224	211	283	284	288	231	223	196	219
8.0	250	228	249	279	265	260	230	217	268	258	286	216	241	251	248
9.0	301	284	265	239	304	277	274	248	313	285	288	247	264	250	279
10.0	347	296	268	260	300	296	285	266	358	380	284	296	292	269	318
11.0	432	374	306	312	306	297	313	312	390	395	359	300	280	250	270
12.0	496	470	402	400	322	354	399	385	452	386	385	355	339	294	307
13.0	532	516	395	395	353	397	378	426	473	443	379	362	341	366	400
14.0	518	556	509	501	362	419	396	392	454	454	363	373	378	342	520
15.0	558	569	620	517	358	368	411	387	418	417	394	387	365	362	490
16.0	568	581	612	515	405	342	389	363	442	403	401	367	375	409	498
17.0	574	581	601	517	445	357	354	355	423	429	363	317	337	475	561
18.0	581	548	548	522	416	359	353	385	394	391	364	321	331	473	521
19.0	583	549	546	512	416	357	344	339	351	352	316	297	323	415	482
20.0	576	554	548	492	412	335	287	286	290	282	270	257	315	404	448
21.0	579	508	491	436	402	285	245	220	237	245	218	202	267	350	396
22.0	554	505	417	356	330	239	205	183	209	217	182	180	233	298	340
23.0	579	458	366	298	252	208	180	174	202	200	182	175	211	250	276
24.0	533	405	326	257	229	206	189	172	199	203	176	179	218	235	249
25.0	478	359	281	232	222	211	189	166	192	191	170	173	223	222	231
26.0	413	315	262	236	224	205	189	163	182	184	157	168	214	220	226
27.0	359	289	261	238	228	201	186	159	175	184	152	171	210	215	224
28.0	314	275	261	240	224	188	189	161	173	185	142	174	210	207	224
29.0	282	278	262	237	212	197	191	160	177	176	139	175	211	207	224
30.0	268	272	265	235	207	198	192	163	170	167	132	179	208	205	225
31.0	271	274	263	229	206	193	189	157	163	170	129	170	199	196	220
32.0	268	269	253	226	205	184	183	149	154	163	124	160	188	191	212
33.0	264	258	246	231	208	177	168	139	145	152	117	150	172	181	205
34.0	262	253	240	225	202	167	159	134	135	144	116	145	160	166	193
35.0	257	251	242	220	191	165	145	126	122	139	115	138	150	152	179
36.0	250	250	239	211	178	158	137	117	113	128	105	128	142	142	167
37.0	249	245	232	195	167	150	133	108	107	120	96	121	135	136	159
38.0	248	247	225	186	153	138	128	103	101	113	91	116	129	129	153
39.0	247	244	213	177	141	130	122	97	96	109	88	106	122	126	147
40.0	248	239	203	168	134	123	113	94	92	103	84	97	112	120	142
41.0	253	236	197	162	130	114	105	94	93	105	87	96	103	111	137
42.0	256	227	190	153	124	107	104	96	91	108	90	101	101	104	128
43.0	253	215	185	145	118	104	103	93	87	104	86	100	104	103	119
44.0	249	211	179	138	115	102	99	87	82	97	80	92	104	107	112
45.0	240	202	168	130	112	97	92	84	77	90	75	85	99	108	108
46.0	223	196	155	123	107	93	86	80	73	85	71	80	90	103	109
47.0	213	185	144	116	99	88	81	78	71	83	69	78	84	92	109
48.0	205	171	134	112	94	84	78	75	69	82	68	75	79	82	103
49.0	197	159	124	105	89	81	75	72	67	79	67	72	75	77	94
50.0	190	146	117	98	85	79	71	68	64	75	64	69	72	74	86
51.0	179	133	109	92	81	75	67	65	62	71	61	67	68	70	81
52.0	162	121	101	86	78	71	64	63	59	68	59	66	65	67	77
53.0	145	110	93	81	75	68	62	61	57	65	57	63	63	65	73



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Candela Table (cd)

	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0	360.0
0.0	14	14	14	14	14	14	14	14	14	14	14	14	14
1.0	13	13	13	13	13	13	13	13	13	13	13	13	13
2.0	14	14	14	14	13	13	13	13	13	13	13	13	13
3.0	40	40	38	40	35	36	27	26	22	18	17	15	14
4.0	62	64	68	61	69	65	66	66	60	52	50	38	28
5.0	82	95	88	80	93	94	88	70	69	73	83	91	78
6.0	102	92	85	91	94	105	101	97	103	144	139	135	134
7.0	221	189	162	183	172	172	146	156	183	204	179	183	204
8.0	250	256	220	220	247	236	261	270	286	288	287	297	313
9.0	247	237	339	284	263	321	357	371	382	399	370	317	320
10.0	263	274	364	426	408	411	396	397	416	395	361	359	315
11.0	295	391	400	533	452	470	383	366	390	403	382	411	436
12.0	416	460	497	559	502	509	491	463	430	431	459	487	499
13.0	452	520	523	525	492	501	527	529	513	534	570	545	567
14.0	530	549	536	468	530	493	548	548	655	671	692	671	661
15.0	646	554	527	525	532	538	569	706	690	710	731	744	678
16.0	597	552	567	582	570	647	715	776	725	701	734	731	675
17.0	553	563	551	569	653	677	790	766	778	739	754	818	817
18.0	528	543	539	627	702	692	790	778	838	849	835	887	898
19.0	489	488	542	648	697	754	779	772	845	916	946	989	977
20.0	476	507	560	672	721	826	835	815	908	980	1013	1125	1005
21.0	468	474	538	639	725	792	886	936	977	996	1059	1099	994
22.0	383	447	527	618	718	812	912	946	972	1007	1021	1097	1113
23.0	316	405	528	633	727	776	898	921	987	1021	1104	1178	1208
24.0	272	357	473	591	715	808	887	926	1010	1095	1207	1295	1326
25.0	243	312	413	550	665	769	859	935	1042	1174	1237	1341	1383
26.0	250	283	360	490	616	717	841	956	1079	1180	1226	1347	1358
27.0	253	277	327	427	547	687	813	918	1021	1123	1223	1351	1323
28.0	255	284	298	366	482	634	771	888	984	1118	1215	1339	1350
29.0	256	284	289	320	419	565	709	846	978	1083	1201	1330	1355
30.0	248	277	292	291	360	493	653	795	932	1074	1209	1273	1378
31.0	243	277	295	278	309	429	595	761	912	1049	1179	1241	1371
32.0	239	268	289	279	275	372	528	707	865	1028	1215	1275	1395
33.0	234	258	273	275	261	320	470	652	823	1012	1175	1313	1388
34.0	223	250	265	272	255	279	405	608	794	980	1172	1315	1383
35.0	217	248	259	267	248	255	358	549	762	965	1157	1315	1377
36.0	205	241	260	262	251	238	310	508	715	952	1151	1300	1387
37.0	192	233	257	256	250	231	280	456	680	904	1121	1278	1417
38.0	179	224	252	252	250	225	257	413	634	879	1096	1265	1425
39.0	170	214	248	249	249	222	240	368	605	863	1072	1263	1426
40.0	164	201	244	251	251	220	232	327	560	831	1069	1275	1425
41.0	160	191	234	252	249	222	224	295	519	810	1087	1283	1437
42.0	155	180	225	254	244	227	213	269	479	785	1067	1277	1447
43.0	150	172	212	249	245	231	207	251	439	752	1047	1272	1459
44.0	141	165	199	241	245	231	202	239	403	714	1030	1278	1463
45.0	131	156	185	232	240	231	196	230	365	675	1008	1249	1456
46.0	122	148	170	218	237	228	195	224	331	638	976	1254	1446
47.0	116	140	157	202	233	222	196	216	301	605	961	1235	1436
48.0	113	130	149	188	225	216	200	211	278	566	923	1210	1437
49.0	111	120	142	174	215	207	198	206	263	518	896	1205	1427
50.0	107	113	134	159	204	199	194	203	249	476	863	1180	1402
51.0	101	110	126	144	185	191	190	198	237	436	835	1167	1388
52.0	92	107	117	132	166	188	184	192	227	397	807	1156	1383
53.0	83	104	110	122	154	186	180	188	216	356	783	1141	1378



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Candela Table (cd)

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
54.0	1372	1601	1686	1906	2154	2180	2017	1823	1284	555	418	342	296	266	240
55.0	1357	1612	1720	1961	2170	2158	1960	1702	1047	492	368	305	268	224	210
56.0	1370	1622	1774	2023	2157	2138	1925	1560	810	361	323	266	230	209	190
57.0	1402	1655	1843	2097	2122	2116	1888	1378	641	337	277	225	195	183	175
58.0	1428	1691	1926	2127	2063	2071	1820	1152	523	305	241	192	171	163	159
59.0	1418	1756	2035	2146	2014	2010	1713	902	430	237	207	174	159	146	145
60.0	1374	1759	2104	2128	1949	1910	1532	699	360	226	178	162	147	132	130
61.0	1327	1703	2108	1957	1818	1770	1300	545	306	202	162	152	136	120	116
62.0	1252	1630	2075	1886	1661	1577	1047	435	259	162	155	140	126	112	105
63.0	1150	1513	1972	1730	1516	1369	795	357	219	157	151	130	117	104	93
64.0	1036	1401	1798	1554	1370	1158	620	302	188	150	145	121	109	95	84
65.0	922	1284	1600	1379	1201	959	497	262	167	148	137	117	105	89	78
66.0	822	1144	1403	1256	1042	777	410	230	157	146	131	112	98	82	73
67.0	688	985	1226	1134	842	621	344	206	150	143	123	105	92	77	68
68.0	545	763	996	976	738	495	293	188	151	140	119	101	87	70	65
69.0	457	617	756	756	584	398	257	175	155	135	113	95	81	67	63
70.0	388	524	618	600	435	329	232	166	153	127	108	92	77	62	61
71.0	345	457	535	501	349	280	209	162	146	124	104	88	70	60	60
72.0	321	415	476	430	297	249	187	153	139	123	101	82	65	59	58
73.0	301	387	441	405	278	229	163	140	131	114	96	76	58	56	56
74.0	289	371	424	369	257	210	139	125	118	98	89	69	54	55	53
75.0	278	360	411	356	256	195	119	111	104	84	80	62	51	53	50
76.0	256	338	394	342	241	183	107	96	92	61	70	56	49	50	47
77.0	233	312	365	313	226	171	100	89	81	56	62	51	47	47	44
78.0	211	278	339	265	206	158	93	81	72	51	55	46	46	44	45
79.0	196	254	302	237	152	143	88	76	64	48	49	43	44	41	42
80.0	142	184	256	181	104	109	83	73	57	46	45	40	41	36	36
81.0	105	129	162	116	79	79	73	62	51	38	42	37	38	32	32
82.0	88	95	106	88	69	64	67	57	46	35	39	34	34	31	30
83.0	79	81	86	80	66	59	60	52	43	33	35	31	32	29	27
84.0	76	78	82	75	61	55	56	48	40	31	33	28	27	26	24
85.0	73	76	74	64	55	51	52	45	37	29	30	25	24	22	21
86.0	71	72	71	61	53	49	48	42	34	25	27	23	22	20	18
87.0	66	67	66	57	51	46	47	39	32	24	25	21	19	18	16
88.0	63	62	61	54	49	44	45	37	30	23	23	19	17	16	15
89.0	61	60	60	53	46	41	43	36	29	22	21	18	15	14	14
90.0	59	59	58	50	45	40	41	35	27	21	19	16	14	13	13
91.0	59	59	58	51	44	40	40	34	27	20	17	14	13	12	11
92.0	59	59	56	51	44	40	39	33	26	20	16	14	13	11	11
93.0	59	58	58	51	44	40	39	33	26	20	16	14	12	11	11
94.0	60	59	59	52	44	40	39	32	25	20	16	14	12	11	10
95.0	61	59	59	52	44	40	38	32	25	19	16	14	12	11	10
96.0	63	59	59	53	44	39	37	32	25	19	15	13	12	11	10
97.0	61	60	59	54	45	40	39	33	24	19	15	13	12	11	10
98.0	61	60	60	54	46	41	37	32	24	19	15	12	12	11	10
99.0	59	61	58	53	46	41	39	32	23	19	14	12	11	11	10
100.0	60	61	59	55	47	41	39	31	24	19	14	12	11	11	10
101.0	60	61	61	54	48	42	40	31	24	18	15	12	11	10	10
102.0	62	61	63	56	49	41	41	30	25	18	15	12	11	11	10
103.0	63	60	62	57	49	42	38	27	24	17	14	12	11	11	11
104.0	56	53	55	47	43	34	31	25	24	16	14	11	11	11	11
105.0	49	46	46	39	37	30	26	21	21	14	13	11	10	10	10
106.0	38	36	32	31	29	24	22	19	19	12	12	10	9	10	9
107.0	27	27	22	22	22	19	17	15	17	11	11	9	9	9	9



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Candela Table (cd)

	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
54.0	217	201	195	190	191	199	218	239	268	295	343	407	660	1389	1874
55.0	191	180	180	177	177	180	193	207	237	267	308	368	532	1141	1817
56.0	175	165	166	165	162	169	176	190	210	233	273	328	440	891	1681
57.0	162	153	152	150	149	156	161	178	189	195	226	283	379	699	1486
58.0	150	144	140	136	136	144	148	163	167	172	190	244	331	553	1252
59.0	140	133	127	126	125	132	138	146	145	160	170	208	292	436	994
60.0	131	121	115	114	113	121	128	129	131	147	158	174	241	355	760
61.0	119	110	104	104	103	110	118	116	122	135	149	156	196	300	585
62.0	107	99	93	92	92	100	108	105	112	124	139	149	169	262	449
63.0	98	90	85	83	84	91	98	96	103	116	132	147	154	219	357
64.0	88	82	79	76	78	83	88	86	94	110	125	141	148	181	295
65.0	80	76	74	72	75	77	80	80	90	105	120	137	147	162	254
66.0	75	73	72	71	73	74	76	75	84	97	113	132	144	150	223
67.0	71	71	73	72	73	72	72	70	78	92	108	127	142	142	196
68.0	71	72	74	71	72	72	71	66	72	86	102	122	142	140	173
69.0	69	70	73	70	71	70	68	63	68	82	96	116	140	143	162
70.0	67	69	73	69	72	70	67	61	64	77	93	112	135	145	153
71.0	65	68	69	65	68	70	65	60	62	72	89	108	131	143	147
72.0	61	70	65	61	64	72	62	58	61	66	83	104	124	138	142
73.0	56	62	65	61	62	64	55	55	57	60	77	98	114	131	135
74.0	53	57	61	62	60	58	53	53	55	55	72	90	105	119	124
75.0	51	54	54	53	53	52	50	51	52	52	66	82	96	107	113
76.0	48	49	49	47	49	46	46	48	50	50	58	72	86	96	99
77.0	47	44	45	46	45	41	43	44	47	49	53	64	73	85	90
78.0	45	41	41	43	41	39	40	42	44	47	48	58	62	74	84
79.0	40	37	37	40	37	36	36	38	41	45	45	52	56	64	77
80.0	36	33	34	37	34	32	33	35	37	43	42	48	51	57	72
81.0	35	32	33	34	31	31	32	32	34	41	40	45	47	51	63
82.0	32	30	30	28	28	29	30	29	32	39	37	42	42	46	59
83.0	27	25	25	24	25	25	26	26	29	35	33	38	39	44	53
84.0	24	21	22	21	22	21	23	23	25	29	29	34	35	41	49
85.0	22	18	19	17	19	18	21	20	22	25	26	30	33	38	45
86.0	20	16	16	15	17	16	19	18	20	22	24	28	30	35	43
87.0	17	15	14	14	15	14	17	16	18	19	22	26	28	33	41
88.0	16	14	13	13	13	13	16	15	16	17	20	24	27	31	40
89.0	15	13	12	12	13	12	15	14	15	16	19	22	25	30	38
90.0	13	12	11	12	12	11	13	13	13	15	17	19	23	28	36
91.0	11	11	11	11	11	10	11	11	12	13	15	17	21	26	34
92.0	11	10	10	11	11	10	11	11	12	13	14	16	21	26	33
93.0	10	10	10	10	10	10	11	11	12	13	14	17	20	25	33
94.0	10	10	10	10	10	10	10	10	11	12	14	17	20	25	33
95.0	10	10	9	10	10	10	10	11	11	12	14	16	20	24	33
96.0	10	10	9	10	10	9	10	10	11	12	14	16	20	24	33
97.0	10	10	9	10	9	9	10	10	11	12	13	15	19	25	33
98.0	10	10	9	10	9	9	9	10	11	12	13	15	19	24	33
99.0	10	9	9	9	9	9	9	10	11	11	13	14	18	24	34
100.0	10	9	9	9	9	9	9	10	11	11	13	15	19	25	33
101.0	10	10	9	9	9	9	9	10	10	11	13	15	19	24	35
102.0	10	10	9	10	9	10	9	11	11	11	13	15	19	25	35
103.0	10	10	10	10	10	10	10	12	11	12	14	14	17	23	31
104.0	10	10	10	10	10	10	10	12	11	11	13	14	18	23	29
105.0	9	9	9	9	9	9	9	12	11	11	12	13	16	20	26
106.0	9	8	8	8	8	9	9	11	10	10	11	12	15	18	23
107.0	8	8	8	7	8	8	8	11	9	9	10	11	13	15	19



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Candela Table (cd)

	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0	200.0	205.0	210.0	215.0	220.0
54.0	2081	2213	2133	1839	1612	1552	1324	1064	688	309	209	183	168	182	151
55.0	2047	2173	2158	1889	1629	1547	1327	1044	662	286	201	178	165	184	148
56.0	2010	2151	2143	1955	1675	1572	1343	1053	626	269	196	174	161	183	146
57.0	1971	2126	2147	2023	1747	1600	1351	1049	586	252	193	171	159	182	144
58.0	1891	2093	2128	2077	1834	1635	1357	1044	549	237	188	167	156	179	139
59.0	1790	2028	2074	2111	1965	1656	1359	1014	510	223	184	167	158	175	131
60.0	1642	1957	1994	2089	2063	1672	1324	966	457	207	177	165	159	164	122
61.0	1430	1832	1879	2031	2072	1638	1281	900	400	191	170	163	166	154	115
62.0	1151	1668	1728	1924	2015	1571	1199	830	344	177	162	159	172	150	113
63.0	862	1467	1573	1791	1889	1477	1102	746	296	163	155	159	176	146	113
64.0	668	1258	1425	1640	1759	1385	996	663	260	158	156	165	178	140	110
65.0	532	1053	1274	1495	1572	1269	896	593	229	152	153	162	174	140	113
66.0	427	852	1096	1329	1382	1140	820	531	205	147	152	163	171	137	111
67.0	353	684	934	1171	1221	1008	719	470	191	144	151	165	169	135	112
68.0	295	542	786	1005	1026	838	590	404	179	138	150	162	163	129	109
69.0	255	424	634	812	830	705	499	360	166	129	144	166	165	129	111
70.0	223	339	511	646	693	607	436	314	153	126	140	165	160	127	114
71.0	197	284	416	540	589	517	372	235	129	121	135	160	156	127	115
72.0	174	250	354	457	510	449	336	186	116	119	133	157	153	126	115
73.0	157	226	313	414	461	414	322	167	111	117	131	154	149	126	115
74.0	137	206	293	386	439	398	312	155	110	114	128	148	143	124	118
75.0	119	186	277	372	426	386	299	141	108	112	125	141	136	121	117
76.0	106	169	267	356	403	368	274	128	104	108	122	137	129	119	116
77.0	99	155	249	331	372	354	259	117	99	105	118	130	125	117	114
78.0	91	143	226	307	354	330	251	103	96	102	113	126	121	117	116
79.0	86	133	195	275	322	297	234	94	93	95	109	124	117	114	114
80.0	78	102	125	192	262	208	160	92	104	96	106	120	114	111	111
81.0	69	80	96	137	161	141	116	89	102	94	101	116	113	108	110
82.0	64	68	78	104	113	101	93	87	98	92	99	114	111	105	108
83.0	59	62	75	88	89	83	83	86	97	91	97	109	107	103	106
84.0	55	58	70	82	81	77	78	81	90	88	94	106	104	103	106
85.0	52	52	61	71	72	75	75	75	82	85	91	99	101	102	103
86.0	49	49	55	63	67	71	73	75	79	81	86	96	100	101	103
87.0	47	48	53	58	61	66	69	72	76	81	82	95	99	98	99
88.0	44	47	52	56	60	63	64	72	74	78	82	92	97	96	97
89.0	42	44	49	52	58	60	64	69	72	77	79	89	93	95	94
90.0	39	42	47	52	57	58	61	66	69	73	75	84	85	87	87
91.0	38	42	47	50	56	58	62	66	68	72	74	82	84	87	85
92.0	38	42	46	50	57	59	61	66	68	73	73	79	83	86	86
93.0	38	41	46	51	57	58	62	67	69	73	74	80	84	87	82
94.0	39	42	46	52	60	59	62	67	69	72	73	81	85	85	81
95.0	38	41	46	53	60	61	64	68	70	74	73	82	85	83	82
96.0	39	43	47	55	61	60	63	66	71	74	72	81	86	85	84
97.0	38	43	46	56	62	61	63	68	72	72	72	82	86	83	84
98.0	40	43	46	57	62	60	63	69	70	73	71	81	87	82	85
99.0	39	42	47	56	61	61	62	68	72	71	74	80	86	82	83
100.0	39	43	47	58	64	61	63	70	71	71	72	81	84	80	82
101.0	39	42	48	59	62	60	63	69	71	70	71	80	84	80	82
102.0	40	43	52	60	63	61	64	69	71	72	75	79	84	79	76
103.0	38	44	52	61	64	61	65	69	70	69	69	71	70	64	63
104.0	30	36	46	52	54	53	57	60	61	60	59	61	61	59	54
105.0	26	33	42	44	47	48	50	47	51	54	51	48	46	45	43
106.0	22	26	33	33	36	36	37	31	40	41	41	40	37	34	32
107.0	17	20	27	25	27	27	28	16	30	31	31	29	27	26	22



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Candela Table (cd)

	225.0	230.0	235.0	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
54.0	131	101	87	77	72	66	61	60	56	64	56	62	60	63	70
55.0	121	94	82	74	69	64	61	59	55	63	55	61	59	62	68
56.0	114	88	75	71	67	62	60	58	55	62	55	61	58	62	66
57.0	107	82	71	69	64	61	60	58	54	62	54	61	57	61	64
58.0	100	78	68	66	62	60	59	57	54	60	53	61	56	59	62
59.0	94	75	65	63	61	59	57	56	54	59	53	61	56	58	62
60.0	88	72	64	61	61	58	55	55	53	58	52	60	55	57	62
61.0	84	70	62	60	60	56	53	54	52	58	50	58	53	55	62
62.0	86	72	64	60	58	54	52	52	51	57	50	57	51	54	62
63.0	86	74	69	65	62	57	52	52	51	57	50	58	53	59	67
64.0	86	74	71	72	67	64	60	59	58	64	56	66	61	67	73
65.0	92	78	76	74	70	67	66	66	66	72	62	71	63	69	75
66.0	93	80	79	79	75	72	71	74	73	79	67	75	69	74	80
67.0	94	83	83	82	82	80	79	84	82	86	78	83	77	81	84
68.0	94	86	86	83	84	84	84	89	90	93	86	87	81	84	85
69.0	96	90	91	88	89	88	86	91	93	98	90	90	84	86	89
70.0	100	92	93	93	92	92	93	97	95	102	95	95	89	91	94
71.0	106	98	96	97	94	93	94	97	96	107	102	98	90	94	98
72.0	107	103	101	101	100	100	94	101	102	112	105	97	93	99	102
73.0	112	110	105	107	105	103	96	103	108	113	108	97	98	102	103
74.0	112	111	107	108	105	102	97	101	105	110	104	97	98	105	103
75.0	114	110	109	110	102	100	97	99	103	110	106	93	95	105	103
76.0	114	109	110	108	101	99	95	96	99	112	104	87	93	101	105
77.0	113	107	107	106	100	99	94	94	95	109	102	87	91	99	104
78.0	113	108	105	105	100	98	91	89	91	106	96	85	89	97	101
79.0	110	107	103	105	97	96	88	86	89	104	92	84	89	95	100
80.0	110	106	102	103	93	93	82	82	85	101	89	82	88	92	96
81.0	109	105	100	100	90	88	76	76	80	97	84	79	83	87	97
82.0	106	102	99	98	87	83	73	71	80	91	82	77	78	83	94
83.0	103	98	96	92	85	80	71	65	78	87	78	74	74	80	92
84.0	101	98	93	92	85	76	70	62	76	83	74	71	68	75	89
85.0	98	94	88	86	84	71	66	58	70	78	66	63	63	70	84
86.0	100	92	87	84	80	69	62	55	67	70	60	59	61	65	81
87.0	96	88	84	82	76	64	59	53	63	60	58	55	56	63	76
88.0	93	84	82	79	71	58	55	48	58	51	56	50	51	60	70
89.0	91	82	77	73	66	51	49	44	52	49	49	46	46	56	64
90.0	86	78	75	67	60	48	42	38	46	48	40	43	42	51	60
91.0	83	79	73	64	57	47	37	34	42	43	37	40	37	48	56
92.0	79	80	69	62	56	46	34	33	38	38	35	36	34	44	54
93.0	80	78	66	60	54	43	32	32	35	34	31	34	31	41	53
94.0	78	77	62	58	52	40	32	30	31	32	28	31	29	39	52
95.0	77	74	59	55	52	38	31	29	29	30	25	29	29	38	51
96.0	78	72	58	54	49	36	30	28	27	28	23	27	28	36	48
97.0	78	67	57	52	44	34	28	26	26	26	22	26	27	33	45
98.0	75	63	57	50	43	32	24	25	25	24	20	25	26	33	42
99.0	75	61	56	50	41	31	21	24	24	23	19	24	24	31	41
100.0	76	62	56	48	39	31	22	22	22	21	18	23	22	30	40
101.0	77	59	55	47	38	30	22	21	21	20	17	23	20	29	40
102.0	64	58	51	44	37	29	20	21	20	20	17	22	20	28	38
103.0	59	57	47	40	34	26	19	20	18	18	16	21	19	26	34
104.0	46	42	40	36	30	21	16	18	15	16	14	19	16	24	31
105.0	39	36	31	27	23	18	13	13	12	12	12	13	13	20	23
106.0	29	28	25	20	16	14	12	11	11	10	11	12	12	14	16
107.0	19	18	16	14	13	12	11	11	11	10	11	11	11	12	12



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Candela Table (cd)

	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0	360.0
54.0	78	98	103	115	148	182	173	183	209	321	747	1132	1362
55.0	73	90	99	110	141	177	170	178	200	290	706	1118	1352
56.0	69	81	95	106	133	176	169	171	192	268	670	1122	1367
57.0	68	74	93	103	126	171	167	164	187	251	633	1134	1396
58.0	66	70	89	101	119	165	166	160	183	237	586	1125	1420
59.0	65	68	85	96	114	156	163	158	183	223	528	1085	1405
60.0	64	67	80	92	109	149	162	161	179	209	458	1014	1363
61.0	64	66	76	89	105	141	164	159	171	193	390	931	1307
62.0	67	69	77	93	108	138	165	157	162	180	325	837	1225
63.0	73	72	77	93	107	136	172	159	154	168	274	741	1117
64.0	77	75	77	92	108	133	176	167	154	164	237	654	1008
65.0	81	78	81	96	113	132	171	165	152	157	212	579	903
66.0	83	82	84	98	112	128	169	166	149	151	189	497	803
67.0	83	84	87	98	109	129	164	166	148	145	174	420	661
68.0	85	86	90	96	107	123	159	166	148	138	165	351	525
69.0	90	91	93	98	108	126	160	169	141	129	154	306	442
70.0	94	92	95	101	110	126	156	169	137	124	144	259	377
71.0	98	97	100	109	113	127	153	167	132	118	125	204	339
72.0	102	101	104	111	114	123	150	161	127	114	111	166	315
73.0	105	105	109	113	115	124	146	157	126	112	108	151	295
74.0	107	110	113	114	116	121	139	151	124	110	108	138	284
75.0	106	111	113	115	116	118	131	141	121	109	106	127	272
76.0	105	109	110	114	113	114	124	133	120	107	100	117	249
77.0	104	108	111	115	113	114	122	127	114	106	97	108	227
78.0	106	107	110	114	112	111	117	122	109	102	95	96	206
79.0	105	105	110	111	112	111	115	117	106	97	92	88	190
80.0	101	103	109	110	111	109	112	113	103	96	96	84	133
81.0	100	101	106	108	109	107	110	110	99	97	99	83	101
82.0	100	102	104	106	106	106	107	109	98	94	95	81	86
83.0	96	100	100	104	104	104	105	107	94	90	90	79	78
84.0	90	97	97	101	100	103	102	103	92	86	81	74	75
85.0	86	95	94	100	97	101	100	99	89	83	77	72	73
86.0	83	91	94	99	95	100	99	95	86	80	75	71	70
87.0	78	87	89	96	91	97	96	92	84	79	74	68	65
88.0	73	82	86	95	92	95	96	91	82	77	73	67	63
89.0	69	77	83	90	89	93	92	88	80	76	72	65	60
90.0	64	74	79	84	84	87	85	81	76	71	70	64	59
91.0	61	69	78	82	82	87	83	77	74	70	69	65	58
92.0	59	65	78	80	80	86	83	78	74	71	67	66	58
93.0	58	61	76	78	78	87	84	78	73	71	68	66	59
94.0	57	58	74	78	76	87	84	79	72	71	68	68	60
95.0	57	58	71	76	77	85	83	79	73	72	70	68	61
96.0	55	57	68	75	77	85	83	80	71	71	71	66	62
97.0	55	56	62	75	79	84	83	81	70	72	70	69	61
98.0	52	56	60	73	79	83	83	82	71	71	70	68	61
99.0	52	56	58	72	80	80	83	83	70	71	71	68	58
100.0	49	55	58	72	77	80	81	80	70	74	72	69	60
101.0	47	54	57	71	79	81	80	81	71	69	72	69	60
102.0	44	52	54	59	69	78	80	82	72	69	72	68	61
103.0	39	46	51	55	58	65	70	72	68	67	70	67	63
104.0	35	40	40	44	50	58	60	59	58	57	62	57	52
105.0	26	31	34	38	40	45	45	46	49	49	52	51	46
106.0	20	25	27	28	30	35	38	39	39	38	41	39	36
107.0	14	16	16	19	21	25	27	29	29	28	30	29	24



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Candela Table (cd)

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
108.0	15	18	13	18	16	14	13	11	14	10	10	8	8	8	8
109.0	12	12	12	13	12	11	10	10	13	11	10	8	8	8	8
110.0	12	12	12	12	11	11	10	10	13	11	10	9	8	8	8
111.0	13	12	12	13	12	11	11	11	13	12	11	9	9	9	9
112.0	13	13	13	13	12	12	11	11	14	13	11	10	9	9	9
113.0	13	13	13	13	12	12	11	11	15	13	12	10	10	10	10
114.0	13	13	12	13	13	12	12	12	14	13	12	10	10	10	10
115.0	13	12	12	13	13	12	12	12	15	13	12	11	10	10	11
116.0	12	12	12	12	12	12	11	12	15	13	12	11	10	10	11
117.0	12	11	12	12	12	12	11	12	14	13	12	11	10	10	11
118.0	11	10	10	12	12	12	11	11	14	12	13	11	10	10	11
119.0	11	10	10	11	12	11	11	11	14	11	12	11	10	10	11
120.0	11	10	9	9	11	11	11	11	13	11	12	11	10	10	11
121.0	10	9	9	9	10	10	10	10	13	10	12	11	10	10	11
122.0	9	9	9	8	8	9	10	10	11	9	11	10	10	10	10
123.0	8	7	8	8	7	8	9	9	9	9	10	10	9	9	9
124.0	7	6	7	7	7	7	8	8	8	7	8	8	8	8	8
125.0	6	5	5	7	7	6	7	7	7	6	7	7	7	7	7
126.0	6	5	5	6	6	6	6	6	6	6	7	7	6	6	6
127.0	5	4	4	5	6	6	6	6	6	5	6	6	6	6	6
128.0	5	4	4	5	5	5	5	5	6	5	6	6	6	6	6
129.0	5	4	4	4	5	5	5	5	5	5	6	6	5	5	5
130.0	5	4	4	4	4	5	5	5	5	4	5	5	5	5	5
131.0	5	4	4	3	4	4	5	5	5	4	5	5	4	4	5
132.0	5	4	3	3	3	4	4	4	4	4	4	4	4	4	5
133.0	5	4	3	3	3	3	4	4	4	4	4	4	3	3	4
134.0	5	4	3	3	3	3	3	4	4	3	4	4	3	3	4
135.0	5	4	3	3	3	3	3	3	3	3	4	3	2	2	3
136.0	4	4	3	3	2	2	3	3	3	3	3	3	2	2	3
137.0	4	4	3	2	2	2	2	3	3	2	3	2	1	2	3
138.0	4	3	3	2	2	2	2	2	3	2	3	2	1	1	2
139.0	4	3	3	2	2	1	2	2	2	2	2	2	1	1	2
140.0	3	3	2	2	2	1	1	2	2	2	2	2	1	1	2
141.0	3	3	2	2	1	1	1	1	2	2	2	1	1	1	2
142.0	3	3	2	2	1	1	1	1	2	1	2	1	1	1	1
143.0	2	2	2	1	1	1	1	1	1	1	2	1	1	1	1
144.0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
145.0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
146.0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
147.0	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1
148.0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
149.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
151.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
152.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
153.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
154.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
156.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
158.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
159.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
161.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
108.0	8	8	7	7	7	8	8	10	9	8	10	10	11	12	15
109.0	8	8	7	6	7	8	8	11	9	8	10	10	10	11	13
110.0	8	8	7	6	7	8	8	11	9	9	10	10	10	11	14
111.0	9	8	7	7	7	8	8	12	9	9	11	11	11	12	14
112.0	9	8	8	7	8	8	8	12	10	10	11	11	11	12	14
113.0	10	9	8	7	8	8	9	13	10	10	12	11	12	13	15
114.0	10	9	8	8	8	9	9	13	11	10	12	12	12	13	15
115.0	11	9	8	8	9	9	10	14	11	10	11	12	13	13	15
116.0	11	9	9	8	9	9	10	14	11	10	10	12	13	14	15
117.0	12	9	9	8	9	9	10	14	10	8	10	12	13	13	15
118.0	12	9	9	8	9	9	10	14	9	7	11	12	13	13	15
119.0	12	9	8	8	9	9	9	11	8	7	12	12	12	13	14
120.0	12	9	8	8	8	9	9	8	7	8	12	12	12	13	14
121.0	11	9	8	8	8	8	8	7	8	9	11	12	12	12	13
122.0	11	8	8	8	8	8	7	8	8	8	10	11	11	11	11
123.0	9	8	8	7	7	7	6	7	7	7	9	10	10	10	10
124.0	8	7	7	6	6	6	6	6	6	6	8	9	9	9	9
125.0	7	6	6	6	6	6	6	6	5	5	7	8	8	8	8
126.0	6	6	6	5	5	5	6	5	4	4	6	7	7	7	7
127.0	6	5	5	5	5	5	5	4	4	4	5	6	6	6	6
128.0	6	5	5	5	5	5	5	4	4	5	5	6	6	6	6
129.0	5	5	5	5	5	5	4	3	4	5	5	6	6	6	6
130.0	5	5	5	5	5	4	4	3	4	4	5	6	6	6	5
131.0	5	5	5	5	4	4	3	3	4	4	5	5	5	5	5
132.0	5	5	5	4	4	3	3	3	4	4	5	5	5	5	5
133.0	5	5	4	4	4	3	3	3	3	4	5	5	5	5	5
134.0	4	4	4	4	3	3	3	3	3	4	4	4	4	4	4
135.0	4	4	3	3	3	2	3	3	3	4	4	4	4	4	4
136.0	3	3	3	3	2	2	2	2	3	3	4	4	4	4	4
137.0	3	3	3	2	2	2	2	2	2	3	3	4	4	4	4
138.0	3	3	2	2	2	2	2	2	2	3	3	3	3	3	3
139.0	2	2	2	2	2	1	1	2	2	3	3	3	3	3	3
140.0	2	2	2	2	1	1	1	2	2	3	3	3	3	3	3
141.0	2	2	2	1	1	1	1	2	2	2	3	3	3	3	3
142.0	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2
143.0	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2
144.0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
145.0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
146.0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
147.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
148.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
149.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
151.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
152.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
153.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
154.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
156.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
158.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
159.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
161.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0	200.0	205.0	210.0	215.0	220.0
108.0	13	16	21	19	19	20	20	12	18	21	21	18	17	15	14
109.0	11	11	15	13	12	13	13	12	13	14	16	13	13	13	13
110.0	10	11	14	12	11	12	12	13	13	14	15	13	13	13	13
111.0	11	12	15	13	12	12	13	13	14	14	16	14	14	13	13
112.0	11	12	15	13	12	13	13	14	14	14	16	14	14	14	13
113.0	11	12	16	13	13	13	13	14	14	14	16	14	14	13	13
114.0	12	13	16	14	13	13	13	13	14	14	15	13	13	13	13
115.0	12	13	16	13	12	12	12	13	13	14	15	13	13	13	13
116.0	12	13	16	13	12	12	11	12	13	13	14	13	13	13	13
117.0	12	12	16	13	12	12	11	11	12	13	14	12	12	12	12
118.0	11	12	16	13	11	11	11	10	11	12	14	12	12	12	12
119.0	11	12	15	12	11	11	11	9	10	11	13	11	11	11	11
120.0	11	12	15	12	11	11	10	9	9	10	11	11	11	11	11
121.0	11	11	15	12	11	10	9	8	9	9	10	10	10	10	10
122.0	10	11	13	11	10	10	9	7	8	8	8	9	9	9	9
123.0	9	9	10	10	10	9	8	6	7	8	8	8	8	8	9
124.0	8	8	9	9	8	8	7	5	6	7	7	7	7	8	8
125.0	7	8	8	8	7	7	6	5	5	6	7	7	7	7	7
126.0	7	7	7	7	7	7	6	4	4	5	6	7	7	7	7
127.0	6	6	6	6	6	6	5	5	4	5	6	6	6	6	7
128.0	6	6	6	6	6	6	5	4	4	4	5	6	6	6	6
129.0	6	6	6	6	6	6	5	4	4	4	5	6	6	6	6
130.0	5	5	5	5	5	5	5	4	4	4	4	5	6	6	6
131.0	5	5	5	5	5	5	5	5	4	4	4	5	5	5	6
132.0	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5
133.0	5	5	5	5	5	5	5	5	4	4	4	4	4	5	5
134.0	4	4	4	4	4	5	5	4	4	4	4	4	4	4	5
135.0	4	4	4	4	4	4	4	4	4	3	3	3	4	4	4
136.0	4	4	4	4	4	4	4	4	4	3	3	3	3	4	4
137.0	4	4	4	4	4	4	4	4	4	3	3	3	3	3	4
138.0	3	3	3	3	3	4	4	4	4	3	3	3	3	3	3
139.0	3	3	3	3	3	3	3	3	3	3	3	2	2	3	3
140.0	3	3	3	3	3	3	3	3	3	3	2	2	2	2	3
141.0	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2
142.0	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2
143.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
144.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
145.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
146.0	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2
147.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
148.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
149.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
151.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
152.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
153.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
154.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
156.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
158.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
159.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
161.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	225.0	230.0	235.0	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
108.0	13	14	13	12	11	11	10	10	10	9	10	10	10	11	11
109.0	13	13	13	12	11	11	11	10	10	9	10	10	10	11	11
110.0	13	13	13	12	12	11	11	10	10	9	11	11	10	12	11
111.0	13	14	13	12	12	12	11	11	10	10	11	11	11	12	12
112.0	13	14	13	12	12	12	12	11	11	10	11	11	11	12	12
113.0	13	14	13	12	12	12	12	11	11	10	11	11	11	12	12
114.0	13	14	13	12	12	11	11	10	11	9	11	11	11	12	12
115.0	13	13	13	12	11	11	11	10	10	9	10	10	10	11	11
116.0	13	13	13	11	11	10	10	9	10	9	10	10	10	11	11
117.0	12	13	12	11	11	10	10	9	9	8	9	9	9	10	10
118.0	12	12	12	11	10	10	9	8	9	8	9	9	9	10	10
119.0	11	12	12	10	10	10	9	8	9	8	8	8	8	9	9
120.0	11	11	11	10	9	9	9	8	8	7	8	8	8	8	8
121.0	10	10	10	9	9	9	8	7	8	7	7	7	7	8	8
122.0	9	9	9	9	8	8	7	7	7	7	7	7	7	7	7
123.0	9	8	8	8	8	7	7	6	6	6	6	6	6	7	6
124.0	8	8	8	7	7	7	6	6	6	6	6	6	6	6	5
125.0	7	7	7	7	7	6	6	6	5	5	5	6	6	6	4
126.0	7	7	7	6	6	6	6	5	5	5	5	5	5	4	3
127.0	7	6	6	6	6	6	5	5	5	5	5	5	5	4	3
128.0	6	6	6	6	6	5	5	5	5	5	5	5	4	3	3
129.0	6	6	6	5	5	5	5	5	4	4	5	4	4	3	3
130.0	6	6	5	5	5	5	5	5	4	4	4	4	3	3	4
131.0	6	5	5	4	4	5	5	4	4	4	4	4	3	3	3
132.0	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3
133.0	5	5	4	3	3	4	4	4	4	4	3	3	3	3	3
134.0	5	5	4	3	3	4	4	4	4	3	3	3	3	3	3
135.0	4	4	4	3	3	3	4	4	3	3	3	3	2	3	3
136.0	4	4	3	2	2	3	3	3	3	3	2	2	2	3	3
137.0	4	4	3	2	2	3	3	3	3	2	2	2	2	2	3
138.0	3	3	3	2	2	2	3	3	3	2	2	2	2	2	3
139.0	3	3	3	2	2	2	3	3	2	2	2	2	2	2	3
140.0	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
141.0	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2
142.0	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2
143.0	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2
144.0	2	2	2	2	1	2	2	2	1	1	1	1	1	2	2
145.0	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2
146.0	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2
147.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
148.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
149.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
151.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
152.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
153.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
154.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
156.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
158.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
159.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
161.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0	360.0
108.0	12	13	13	13	13	15	16	17	20	19	21	21	14
109.0	12	13	12	12	12	12	13	14	15	14	14	14	12
110.0	12	13	12	12	12	13	13	14	14	13	13	13	12
111.0	12	13	12	12	12	13	13	14	15	14	14	13	12
112.0	12	13	12	12	13	13	13	14	15	14	14	14	13
113.0	12	13	12	12	13	13	13	14	15	14	14	13	13
114.0	12	13	12	12	13	13	13	14	14	14	13	13	13
115.0	12	12	12	12	13	13	13	13	14	13	13	13	12
116.0	11	11	12	12	12	13	12	13	13	13	13	12	12
117.0	10	11	11	12	12	12	12	13	13	12	12	12	12
118.0	9	11	11	11	11	12	11	12	12	12	12	12	11
119.0	9	11	11	11	11	11	11	11	12	12	11	11	11
120.0	9	11	10	10	11	10	10	11	11	11	11	11	11
121.0	8	9	10	10	10	10	10	11	11	11	11	10	10
122.0	6	8	9	9	9	9	9	10	10	10	10	10	8
123.0	5	7	8	8	8	8	8	8	9	9	9	9	7
124.0	4	7	7	7	8	7	7	8	8	8	8	8	7
125.0	4	6	7	7	7	7	7	7	7	7	7	7	6
126.0	4	6	6	7	6	6	6	6	6	7	7	6	5
127.0	4	5	6	6	6	6	6	6	6	6	6	6	5
128.0	4	5	6	6	6	6	6	6	6	6	6	6	5
129.0	4	5	6	6	6	6	6	6	6	6	6	6	5
130.0	4	5	5	5	5	5	5	5	6	6	6	6	5
131.0	4	5	5	5	5	5	5	5	5	6	6	5	5
132.0	4	5	5	5	5	5	5	5	5	5	5	5	5
133.0	4	5	5	5	5	5	5	5	5	5	5	5	5
134.0	4	4	4	4	4	4	4	4	4	4	4	4	4
135.0	4	4	4	4	4	4	4	4	4	4	4	4	4
136.0	4	4	4	4	4	4	4	4	4	4	4	4	4
137.0	3	4	4	4	4	4	4	4	4	4	4	4	4
138.0	3	3	3	3	3	4	4	4	4	4	4	4	4
139.0	3	3	3	3	3	3	4	4	4	4	4	4	3
140.0	3	3	3	3	3	3	3	3	3	3	3	3	3
141.0	2	3	3	3	3	3	3	3	3	3	3	3	3
142.0	2	2	2	2	3	3	3	3	3	3	3	3	3
143.0	2	2	2	2	2	2	2	3	3	3	2	2	2
144.0	2	2	2	2	2	2	2	2	2	2	2	2	2
145.0	2	2	2	2	2	2	2	2	2	2	2	2	2
146.0	2	2	2	2	2	2	2	2	2	2	2	2	2
147.0	1	1	2	2	2	2	2	2	2	2	2	2	1
148.0	1	1	1	1	1	1	2	2	2	1	1	1	1
149.0	1	1	1	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1	1	1	1
151.0	1	1	1	1	1	1	1	1	1	1	1	1	1
152.0	1	1	1	1	1	1	1	1	1	1	1	1	1
153.0	1	1	1	1	1	1	1	1	1	1	1	1	1
154.0	1	1	1	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1	1	1	1
156.0	1	1	1	1	1	1	1	1	1	1	1	1	1
157.0	1	1	1	1	1	1	1	1	1	1	1	1	1
158.0	1	1	1	1	1	1	1	1	1	1	1	1	1
159.0	1	1	1	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1	1	1	1
161.0	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
162.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
163.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
164.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
166.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
167.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
168.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
169.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
171.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
172.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
173.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
174.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
176.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
177.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
178.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
179.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
162.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
163.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
164.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
166.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
167.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
168.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
169.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
171.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
172.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
173.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
174.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
176.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
177.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
178.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
179.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0	200.0	205.0	210.0	215.0	220.0
162.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
163.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
164.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
166.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
167.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
168.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
169.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
171.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
172.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
173.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
174.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
176.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
177.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
178.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
179.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	225.0	230.0	235.0	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
162.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
163.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
164.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
166.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
167.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
168.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
169.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
171.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
172.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
173.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
174.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
176.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
177.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
178.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
179.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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Candela Table (cd)

	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0	360.0
162.0	1	1	1	1	1	1	1	1	1	1	1	1	1
163.0	1	1	1	1	1	1	1	1	1	1	1	1	1
164.0	1	1	1	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1	1	1	1
166.0	1	1	1	1	1	1	1	1	1	1	1	1	1
167.0	1	1	1	1	1	1	1	1	1	1	1	1	1
168.0	1	1	1	1	1	1	1	1	1	1	1	1	1
169.0	1	1	1	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1	1	1	1
171.0	1	1	1	1	1	1	1	1	1	1	1	1	1
172.0	1	1	1	1	1	1	1	1	1	1	1	1	1
173.0	1	1	1	1	1	1	1	1	1	1	1	1	1
174.0	1	1	1	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1	1	1	1
176.0	1	1	1	1	1	1	1	1	1	1	1	1	1
177.0	1	1	1	1	1	1	1	1	1	1	1	1	1
178.0	1	1	1	1	1	1	1	1	1	1	1	1	1
179.0	1	1	1	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1	1	1	1