

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1427815

Luminaire Tested: SQ2W-F-K-150U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427815  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-F-K-150U-125D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

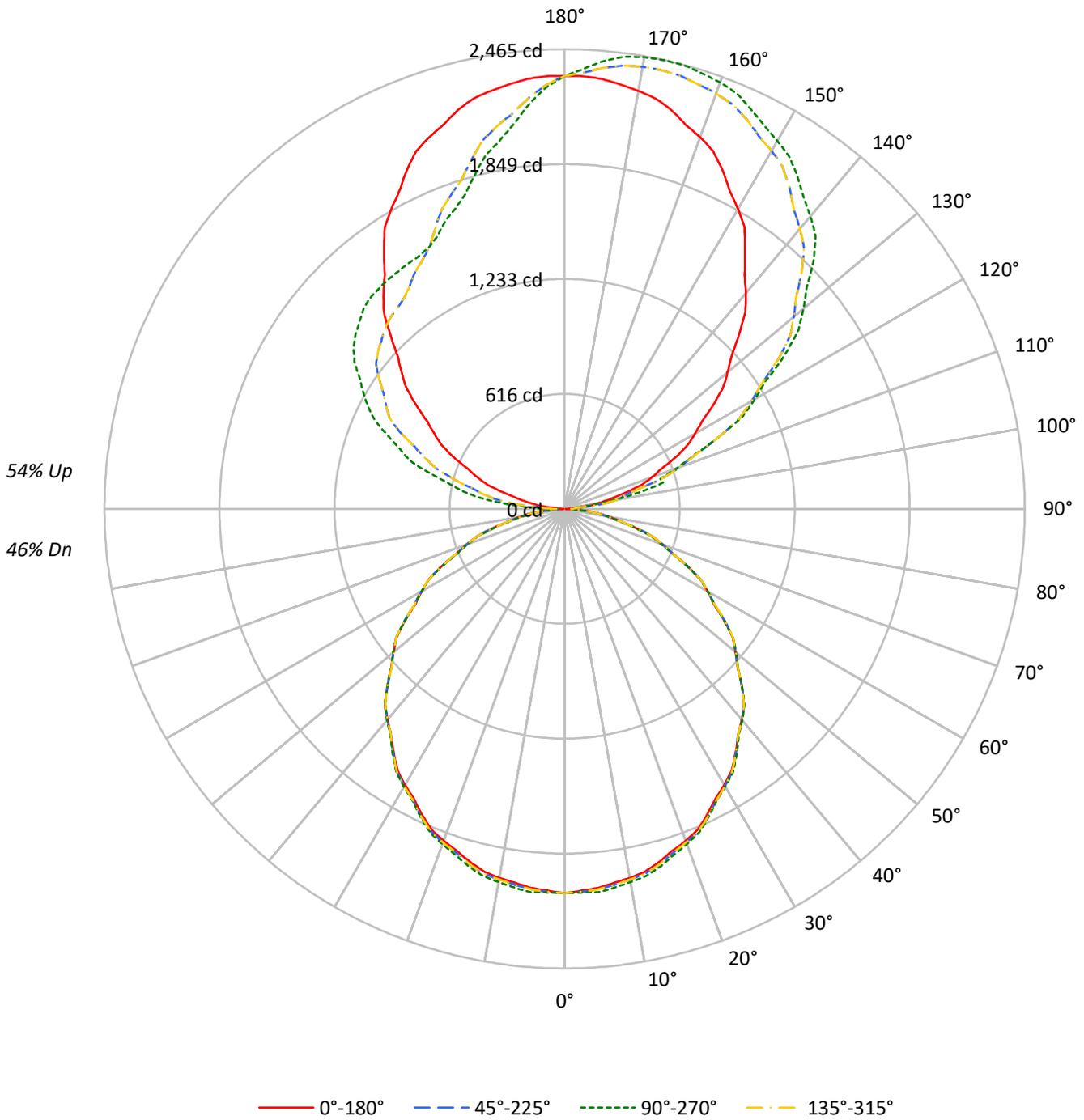
Lumens per Lamp: N/A  
Luminaire Lumens: 12585.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 104.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46
1	97	92	88	85	89	85	82	79	71	69	66	58	56	55	46	45	44	39
2	88	80	74	69	80	74	69	64	62	58	55	51	48	46	40	39	37	32
3	80	71	63	57	73	65	59	53	54	50	46	45	41	38	36	33	31	27
4	73	62	54	48	67	57	51	45	48	43	39	40	36	33	32	29	27	23
5	67	55	47	41	61	51	44	39	43	38	33	36	31	28	29	26	23	20
6	62	50	42	36	56	46	39	33	39	33	29	32	28	25	26	23	20	17
7	57	45	37	31	52	41	34	29	35	30	25	29	25	22	24	20	18	15
8	53	41	33	27	48	38	31	26	32	26	23	27	22	19	22	18	16	14
9	49	37	29	24	45	34	28	23	29	24	20	24	20	17	20	17	14	12
10	46	34	27	22	42	31	25	21	27	22	18	23	18	16	18	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	33270	33270	33270	33270
5°	33068	33444	33068	33444
10°	32950	33330	32950	33330
15°	32768	33181	32768	33181
20°	32561	32886	32561	32886
25°	32211	32494	32211	32494
30°	31869	32085	31869	32085
35°	31461	31662	31461	31662
40°	31105	31195	31105	31195
45°	30649	30649	30649	30649
50°	30034	30106	30034	30106
55°	29328	29368	29328	29368
60°	28536	28536	28536	28536
65°	27606	27495	27606	27495
70°	26303	26030	26303	26030
75°	24528	23986	24528	23986
80°	21859	20781	21859	20781
85°	17469	14783	17469	14783

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 30855 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.0	1.5
10°-20°	557.1	4.4
20°-30°	838.6	6.7
30°-40°	1002.8	8.0
40°-50°	1035.5	8.2
50°-60°	934.0	7.4
60°-70°	715.5	5.7
70°-80°	413.5	3.3
80°-90°	117.0	0.9
90°-100°	184.7	1.5
100°-110°	538.6	4.3
110°-120°	879.0	7.0
120°-130°	1115.4	8.9
130°-140°	1193.5	9.5
140°-150°	1114.5	8.9
150°-160°	917.1	7.3
160°-170°	615.0	4.9
170°-180°	218.4	1.7
0°-30°	1590.6	12.6
0°-40°	2593.4	20.6
0°-60°	4562.9	36.3
0°-90°	5808.8	46.2
90°-120°	1602.3	12.7
90°-150°	5025.7	39.9
90°-180°	6776.0	53.8
0°-180°	12585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2061	2061	2061	2061	2061	
5°	2040	2064	2040	2064	2040	194
15°	1960	1985	1960	1985	1960	553
25°	1808	1824	1808	1824	1808	833
35°	1596	1606	1596	1606	1596	999
45°	1342	1342	1342	1342	1342	1034
55°	1042	1043	1042	1043	1042	931
65°	723	720	723	720	723	714
75°	393	384	393	384	393	416
85°	94	80	94	80	94	110
90°	7	52	7	101	7	10
95°	73	54	73	316	73	88
105°	342	548	342	755	342	364
115°	656	910	656	1120	656	647
125°	970	1442	970	1374	970	868
135°	1320	1887	1320	1521	1320	1020
145°	1686	2175	1686	1554	1686	1055
155°	2002	2363	2002	1613	2002	920
165°	2213	2464	2213	1857	2213	623
175°	2314	2412	2314	2178	2314	220
180°	2321	2321	2321	2321	2321	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6
2.5°	2050.1	2059.9	2069.7	2065.6	2056.8	2053.5	2055.5	2057.3	2058.4	2059.4	2058.4
5°	2040.3	2053.2	2066.1	2061.5	2051.2	2046.7	2048.0	2050.6	2057.0	2063.5	2057.0
7.5°	2023.7	2036.6	2049.5	2045.4	2035.6	2031.4	2033.0	2035.8	2042.5	2049.2	2042.5
10°	2009.8	2022.7	2035.6	2031.1	2020.7	2016.9	2019.5	2022.7	2027.8	2033.0	2027.8
12.5°	1992.4	2005.3	2018.2	2014.4	2005.1	2001.3	2002.8	2005.4	2011.1	2016.7	2011.1
15°	1960.4	1973.3	1986.2	1982.7	1973.7	1970.1	1972.1	1974.8	1980.0	1985.1	1980.0
17.5°	1921.8	1934.0	1946.1	1942.8	1934.5	1931.4	1933.5	1936.3	1940.8	1945.4	1940.8
20°	1895.1	1906.8	1918.4	1915.0	1906.6	1902.7	1903.4	1905.0	1909.5	1914.0	1909.5
22.5°	1862.6	1874.2	1885.9	1882.9	1875.0	1870.3	1868.9	1869.2	1874.8	1880.3	1874.8
25°	1808.1	1819.7	1831.3	1828.9	1821.8	1817.3	1815.3	1815.0	1819.5	1824.0	1819.5
27.5°	1751.2	1760.9	1770.5	1768.5	1762.6	1759.0	1757.7	1757.5	1760.7	1764.0	1760.7
30°	1709.4	1719.1	1728.7	1726.3	1719.9	1716.0	1714.7	1714.6	1717.8	1721.0	1717.8
32.5°	1665.3	1674.4	1683.6	1680.3	1672.8	1668.9	1668.7	1669.4	1673.2	1676.9	1673.2
35°	1596.2	1604.0	1611.7	1608.3	1601.2	1598.0	1598.6	1599.9	1603.1	1606.4	1603.1
37.5°	1526.9	1532.8	1538.7	1535.3	1528.7	1525.3	1525.2	1525.8	1528.5	1531.2	1528.5
40°	1475.8	1482.2	1488.7	1485.0	1477.9	1474.0	1473.4	1473.7	1476.9	1480.1	1476.9
42.5°	1423.5	1428.4	1433.3	1430.0	1424.0	1421.1	1421.5	1422.2	1423.9	1425.6	1423.9
45°	1342.3	1346.8	1351.3	1348.1	1342.3	1339.4	1339.4	1339.7	1341.0	1342.3	1341.0
47.5°	1257.2	1260.7	1264.2	1261.7	1257.2	1254.5	1253.8	1253.7	1255.8	1257.8	1255.8
50°	1195.7	1200.2	1204.7	1202.5	1198.0	1195.1	1193.8	1193.5	1196.0	1198.6	1196.0
52.5°	1135.3	1140.4	1145.4	1143.3	1138.8	1135.6	1133.8	1133.0	1135.0	1137.1	1135.0
55°	1041.9	1047.7	1053.5	1052.1	1048.2	1045.0	1042.4	1040.8	1042.1	1043.3	1042.1
57.5°	946.4	952.1	957.8	956.7	953.3	950.1	947.0	945.1	946.9	948.7	946.9
60°	883.7	888.9	894.0	892.4	888.6	885.3	882.8	881.1	882.4	883.7	882.4
62.5°	819.9	825.0	830.2	828.2	823.8	820.3	817.7	816.1	817.4	818.7	817.4
65°	722.6	727.2	731.7	729.9	726.0	722.8	720.2	718.5	719.1	719.7	719.1
67.5°	624.6	628.4	632.3	630.5	626.7	623.0	619.2	616.7	617.7	618.8	617.7
70°	557.2	561.1	565.0	563.5	560.3	557.1	553.8	551.4	551.4	551.4	551.4
72.5°	492.2	495.6	498.9	497.0	493.2	490.0	487.3	485.2	485.2	485.2	485.2
75°	393.2	395.2	397.1	396.2	394.2	391.6	388.4	385.8	385.2	384.5	385.2
77.5°	297.8	297.8	297.8	295.9	293.5	291.0	288.6	286.5	285.8	285.0	285.8
80°	235.1	235.1	235.1	233.6	231.7	229.8	227.8	226.0	224.8	223.5	224.8
82.5°	177.0	176.0	175.0	173.3	171.3	168.9	165.9	164.0	165.3	166.6	165.3
85°	94.3	93.0	91.7	90.0	88.0	85.8	83.2	81.1	80.5	79.8	80.5
87.5°	30.4	31.3	32.6	33.0	32.9	31.6	29.5	28.3	28.2	27.7	28.2
90°	7.0	16.4	28.1	37.5	44.5	46.9	46.9	49.2	51.6	51.6	51.6
92.5°	25.8	40.8	41.3	41.3	50.2	54.4	58.1	58.6	60.9	60.9	60.9
95°	72.7	79.7	119.6	117.2	79.7	63.3	53.9	53.9	53.9	53.9	53.9
97.5°	138.8	149.1	155.7	208.6	220.4	212.9	173.5	145.8	130.3	123.3	130.3
100°	196.9	201.6	215.7	218.0	276.6	332.9	304.7	269.6	257.9	250.8	257.9
102.5°	255.0	257.9	279.4	289.3	302.9	334.7	432.3	421.5	413.5	412.1	413.5
105°	342.3	344.6	384.4	403.2	412.6	412.6	410.2	457.1	532.1	548.5	532.1
107.5°	435.5	446.3	493.2	543.4	554.2	557.0	544.8	537.8	534.9	536.8	534.9
110°	499.3	515.7	572.0	635.3	651.7	656.4	651.7	644.7	640.0	640.0	640.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	561.2	585.1	648.9	721.5	749.2	763.3	753.0	747.8	743.1	746.9	743.1
115°	656.4	691.5	775.9	850.9	907.2	914.2	911.9	911.9	909.5	909.5	909.5
117.5°	744.5	800.8	895.5	982.7	1047.9	1066.6	1076.0	1073.2	1070.4	1075.0	1070.4
120°	806.4	872.0	979.9	1078.3	1141.6	1169.7	1179.1	1174.4	1179.1	1174.4	1179.1
122.5°	872.0	952.7	1058.6	1160.8	1235.4	1267.3	1278.5	1279.5	1280.4	1277.6	1280.4
125°	970.5	1068.9	1193.2	1298.7	1376.0	1413.5	1422.9	1425.3	1430.0	1441.7	1430.0
127.5°	1069.9	1181.5	1317.9	1419.6	1498.9	1544.3	1558.9	1564.0	1573.9	1579.0	1573.9
130°	1139.3	1265.9	1404.2	1500.3	1577.6	1626.9	1652.7	1659.7	1671.4	1669.1	1671.4
132.5°	1212.4	1344.6	1484.8	1584.7	1656.4	1709.4	1731.4	1751.6	1755.8	1759.1	1755.8
135°	1319.8	1462.8	1603.4	1701.9	1769.9	1821.4	1849.6	1868.3	1880.0	1887.1	1880.0
137.5°	1432.8	1583.7	1718.8	1806.4	1874.9	1919.4	1951.3	1971.0	1983.2	1988.8	1983.2
140°	1509.7	1655.0	1786.3	1877.7	1938.6	1983.2	2011.3	2034.8	2048.8	2048.8	2048.8
142.5°	1582.8	1726.3	1853.8	1945.2	1998.7	2039.4	2069.4	2087.3	2103.2	2103.2	2103.2
145°	1685.5	1828.5	1945.7	2037.1	2081.6	2119.1	2152.0	2166.0	2175.4	2175.4	2175.4
147.5°	1792.8	1919.4	2026.3	2114.0	2151.5	2195.6	2221.3	2232.6	2244.3	2239.2	2244.3
150°	1856.6	1973.8	2076.9	2159.0	2196.5	2238.7	2264.5	2273.9	2285.6	2278.5	2285.6
152.5°	1918.5	2030.1	2123.8	2200.3	2232.1	2274.3	2303.9	2313.2	2321.2	2316.1	2321.2
155°	2001.9	2100.4	2187.1	2257.5	2285.6	2325.4	2353.6	2365.3	2374.7	2362.9	2374.7
157.5°	2076.5	2161.3	2236.8	2301.5	2331.5	2365.8	2392.0	2406.5	2415.9	2410.8	2415.9
160°	2121.5	2198.8	2266.8	2327.8	2355.9	2386.4	2414.5	2430.9	2440.3	2433.3	2440.3
162.5°	2159.0	2228.9	2293.1	2348.4	2372.8	2399.5	2433.3	2447.8	2457.2	2448.3	2457.2
165°	2212.9	2269.2	2325.4	2372.3	2393.4	2414.5	2449.7	2466.1	2473.1	2463.7	2473.1
167.5°	2253.7	2296.8	2342.3	2382.6	2398.1	2418.7	2453.9	2467.5	2476.4	2464.7	2476.4
170°	2276.2	2313.7	2353.6	2386.4	2398.1	2416.9	2452.0	2463.7	2470.8	2459.1	2470.8
172.5°	2295.0	2323.1	2355.4	2384.5	2390.6	2405.6	2438.9	2450.6	2455.8	2445.9	2455.8
175°	2313.7	2330.1	2353.6	2372.3	2370.0	2379.3	2407.5	2416.9	2426.2	2412.2	2426.2
177.5°	2322.6	2330.1	2337.6	2348.9	2341.4	2341.4	2362.0	2367.6	2369.5	2362.0	2369.5
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6
2.5°	2057.3	2055.5	2053.5	2056.8	2065.6	2069.7	2059.9	2050.1	2059.9	2069.7	2065.6
5°	2050.6	2048.0	2046.7	2051.2	2061.5	2066.1	2053.2	2040.3	2053.2	2066.1	2061.5
7.5°	2035.8	2033.0	2031.4	2035.6	2045.4	2049.5	2036.6	2023.7	2036.6	2049.5	2045.4
10°	2022.7	2019.5	2016.9	2020.7	2031.1	2035.6	2022.7	2009.8	2022.7	2035.6	2031.1
12.5°	2005.4	2002.8	2001.3	2005.1	2014.4	2018.2	2005.3	1992.4	2005.3	2018.2	2014.4
15°	1974.8	1972.1	1970.1	1973.7	1982.7	1986.2	1973.3	1960.4	1973.3	1986.2	1982.7
17.5°	1936.3	1933.5	1931.4	1934.5	1942.8	1946.1	1934.0	1921.8	1934.0	1946.1	1942.8
20°	1905.0	1903.4	1902.7	1906.6	1915.0	1918.4	1906.8	1895.1	1906.8	1918.4	1915.0
22.5°	1869.2	1868.9	1870.3	1875.0	1882.9	1885.9	1874.2	1862.6	1874.2	1885.9	1882.9
25°	1815.0	1815.3	1817.3	1821.8	1828.9	1831.3	1819.7	1808.1	1819.7	1831.3	1828.9
27.5°	1757.5	1757.7	1759.0	1762.6	1768.5	1770.5	1760.9	1751.2	1760.9	1770.5	1768.5
30°	1714.6	1714.7	1716.0	1719.9	1726.3	1728.7	1719.1	1709.4	1719.1	1728.7	1726.3
32.5°	1669.4	1668.7	1668.9	1672.8	1680.3	1683.6	1674.4	1665.3	1674.4	1683.6	1680.3
35°	1599.9	1598.6	1598.0	1601.2	1608.3	1611.7	1604.0	1596.2	1604.0	1611.7	1608.3
37.5°	1525.8	1525.2	1525.3	1528.7	1535.3	1538.7	1532.8	1526.9	1532.8	1538.7	1535.3
40°	1473.7	1473.4	1474.0	1477.9	1485.0	1488.7	1482.2	1475.8	1482.2	1488.7	1485.0
42.5°	1422.2	1421.5	1421.1	1424.0	1430.0	1433.3	1428.4	1423.5	1428.4	1433.3	1430.0
45°	1339.7	1339.4	1339.4	1342.3	1348.1	1351.3	1346.8	1342.3	1346.8	1351.3	1348.1
47.5°	1253.7	1253.8	1254.5	1257.2	1261.7	1264.2	1260.7	1257.2	1260.7	1264.2	1261.7
50°	1193.5	1193.8	1195.1	1198.0	1202.5	1204.7	1200.2	1195.7	1200.2	1204.7	1202.5
52.5°	1133.0	1133.8	1135.6	1138.8	1143.3	1145.4	1140.4	1135.3	1140.4	1145.4	1143.3
55°	1040.8	1042.4	1045.0	1048.2	1052.1	1053.5	1047.7	1041.9	1047.7	1053.5	1052.1
57.5°	945.1	947.0	950.1	953.3	956.7	957.8	952.1	946.4	952.1	957.8	956.7
60°	881.1	882.8	885.3	888.6	892.4	894.0	888.9	883.7	888.9	894.0	892.4
62.5°	816.1	817.7	820.3	823.8	828.2	830.2	825.0	819.9	825.0	830.2	828.2
65°	718.5	720.2	722.8	726.0	729.9	731.7	727.2	722.6	727.2	731.7	729.9
67.5°	616.7	619.2	623.0	626.7	630.5	632.3	628.4	624.6	628.4	632.3	630.5
70°	551.4	553.8	557.1	560.3	563.5	565.0	561.1	557.2	561.1	565.0	563.5
72.5°	485.2	487.3	490.0	493.2	497.0	498.9	495.6	492.2	495.6	498.9	497.0
75°	385.8	388.4	391.6	394.2	396.2	397.1	395.2	393.2	395.2	397.1	396.2
77.5°	286.5	288.6	291.0	293.5	295.9	297.8	297.8	297.8	297.8	297.8	295.9
80°	226.0	227.8	229.8	231.7	233.6	235.1	235.1	235.1	235.1	235.1	233.6
82.5°	164.0	165.9	168.9	171.3	173.3	175.0	176.0	177.0	176.0	175.0	173.3
85°	81.1	83.2	85.8	88.0	90.0	91.7	93.0	94.3	93.0	91.7	90.0
87.5°	28.3	29.5	31.6	32.9	33.0	32.6	31.3	30.4	31.3	32.1	34.0
90°	49.2	46.9	46.9	44.5	37.5	28.1	16.4	7.0	16.4	25.8	42.2
92.5°	58.6	58.1	54.4	50.2	41.3	41.3	40.8	25.8	44.5	63.3	91.0
95°	53.9	53.9	63.3	79.7	117.2	119.6	79.7	72.7	103.1	145.3	182.8
97.5°	145.8	173.5	212.9	220.4	208.6	155.7	149.1	138.8	188.9	230.7	291.1
100°	269.6	304.7	332.9	276.6	218.0	215.7	201.6	196.9	250.8	290.7	349.3
102.5°	421.5	432.3	334.7	302.9	289.3	279.4	257.9	255.0	309.0	363.8	413.0
105°	457.1	410.2	412.6	412.6	403.2	384.4	344.6	342.3	403.2	466.5	527.4
107.5°	537.8	544.8	557.0	554.2	543.4	493.2	446.3	435.5	490.4	566.4	633.4
110°	644.7	651.7	656.4	651.7	635.3	572.0	515.7	499.3	548.5	628.2	700.9



TEST NUMBER: P1427815

CATALOG NUMBER: SQ2W-F-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	747.8	753.0	763.3	749.2	721.5	648.9	585.1	561.2	610.4	692.0	766.5
115°	911.9	911.9	914.2	907.2	850.9	775.9	691.5	656.4	698.6	773.6	855.6
117.5°	1073.2	1076.0	1066.6	1047.9	982.7	895.5	800.8	744.5	777.8	857.0	941.4
120°	1174.4	1179.1	1169.7	1141.6	1078.3	979.9	872.0	806.4	832.2	909.5	993.9
122.5°	1279.5	1278.5	1267.3	1235.4	1160.8	1058.6	952.7	872.0	882.8	954.6	1037.1
125°	1425.3	1422.9	1413.5	1376.0	1298.7	1193.2	1068.9	970.5	956.4	1017.4	1101.8
127.5°	1564.0	1558.9	1544.3	1498.9	1419.6	1317.9	1181.5	1069.9	1038.5	1076.9	1154.3
130°	1659.7	1652.7	1626.9	1577.6	1500.3	1404.2	1265.9	1139.3	1094.7	1118.2	1186.2
132.5°	1751.6	1731.4	1709.4	1656.4	1584.7	1484.8	1344.6	1212.4	1151.0	1161.3	1214.3
135°	1868.3	1849.6	1821.4	1769.9	1701.9	1603.4	1462.8	1319.8	1235.4	1226.0	1256.5
137.5°	1971.0	1951.3	1919.4	1874.9	1806.4	1718.8	1583.7	1432.8	1326.3	1294.9	1306.6
140°	2034.8	2011.3	1983.2	1938.6	1877.7	1786.3	1655.0	1509.7	1390.1	1345.6	1338.5
142.5°	2087.3	2069.4	2039.4	1998.7	1945.2	1853.8	1726.3	1582.8	1455.7	1398.1	1381.7
145°	2166.0	2152.0	2119.1	2081.6	2037.1	1945.7	1828.5	1685.5	1558.9	1483.9	1448.7
147.5°	2232.6	2221.3	2195.6	2151.5	2114.0	2026.3	1919.4	1792.8	1663.0	1570.1	1524.7
150°	2273.9	2264.5	2238.7	2196.5	2159.0	2076.9	1973.8	1856.6	1732.4	1633.9	1575.3
152.5°	2313.2	2303.9	2274.3	2232.1	2200.3	2123.8	2030.1	1918.5	1792.4	1693.9	1633.4
155°	2365.3	2353.6	2325.4	2285.6	2257.5	2187.1	2100.4	2001.9	1894.1	1791.0	1723.0
157.5°	2406.5	2392.0	2365.8	2331.5	2301.5	2236.8	2161.3	2076.5	1982.2	1883.8	1814.4
160°	2430.9	2414.5	2386.4	2355.9	2327.8	2266.8	2198.8	2121.5	2034.8	1945.7	1870.7
162.5°	2447.8	2433.3	2399.5	2372.8	2348.4	2293.1	2228.9	2159.0	2081.6	2003.8	1934.4
165°	2466.1	2449.7	2414.5	2393.4	2372.3	2325.4	2269.2	2212.9	2147.3	2084.0	2027.7
167.5°	2467.5	2453.9	2418.7	2398.1	2382.6	2342.3	2296.8	2253.7	2202.6	2152.9	2106.0
170°	2463.7	2452.0	2416.9	2398.1	2386.4	2353.6	2313.7	2276.2	2236.4	2194.2	2156.7
172.5°	2450.6	2438.9	2405.6	2390.6	2384.5	2355.4	2323.1	2295.0	2260.7	2229.8	2199.8
175°	2416.9	2407.5	2379.3	2370.0	2372.3	2353.6	2330.1	2313.7	2292.6	2273.9	2257.5
177.5°	2367.6	2362.0	2341.4	2341.4	2348.9	2337.6	2330.1	2322.6	2313.2	2307.6	2302.0
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1427815

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6
2.5°	2056.8	2053.5	2055.5	2057.3	2058.4	2059.4	2058.4	2057.3	2055.5	2053.5	2056.8
5°	2051.2	2046.7	2048.0	2050.6	2057.0	2063.5	2057.0	2050.6	2048.0	2046.7	2051.2
7.5°	2035.6	2031.4	2033.0	2035.8	2042.5	2049.2	2042.5	2035.8	2033.0	2031.4	2035.6
10°	2020.7	2016.9	2019.5	2022.7	2027.8	2033.0	2027.8	2022.7	2019.5	2016.9	2020.7
12.5°	2005.1	2001.3	2002.8	2005.4	2011.1	2016.7	2011.1	2005.4	2002.8	2001.3	2005.1
15°	1973.7	1970.1	1972.1	1974.8	1980.0	1985.1	1980.0	1974.8	1972.1	1970.1	1973.7
17.5°	1934.5	1931.4	1933.5	1936.3	1940.8	1945.4	1940.8	1936.3	1933.5	1931.4	1934.5
20°	1906.6	1902.7	1903.4	1905.0	1909.5	1914.0	1909.5	1905.0	1903.4	1902.7	1906.6
22.5°	1875.0	1870.3	1868.9	1869.2	1874.8	1880.3	1874.8	1869.2	1868.9	1870.3	1875.0
25°	1821.8	1817.3	1815.3	1815.0	1819.5	1824.0	1819.5	1815.0	1815.3	1817.3	1821.8
27.5°	1762.6	1759.0	1757.7	1757.5	1760.7	1764.0	1760.7	1757.5	1757.7	1759.0	1762.6
30°	1719.9	1716.0	1714.7	1714.6	1717.8	1721.0	1717.8	1714.6	1714.7	1716.0	1719.9
32.5°	1672.8	1668.9	1668.7	1669.4	1673.2	1676.9	1673.2	1669.4	1668.7	1668.9	1672.8
35°	1601.2	1598.0	1598.6	1599.9	1603.1	1606.4	1603.1	1599.9	1598.6	1598.0	1601.2
37.5°	1528.7	1525.3	1525.2	1525.8	1528.5	1531.2	1528.5	1525.8	1525.2	1525.3	1528.7
40°	1477.9	1474.0	1473.4	1473.7	1476.9	1480.1	1476.9	1473.7	1473.4	1474.0	1477.9
42.5°	1424.0	1421.1	1421.5	1422.2	1423.9	1425.6	1423.9	1422.2	1421.5	1421.1	1424.0
45°	1342.3	1339.4	1339.4	1339.7	1341.0	1342.3	1341.0	1339.7	1339.4	1339.4	1342.3
47.5°	1257.2	1254.5	1253.8	1253.7	1255.8	1257.8	1255.8	1253.7	1253.8	1254.5	1257.2
50°	1198.0	1195.1	1193.8	1193.5	1196.0	1198.6	1196.0	1193.5	1193.8	1195.1	1198.0
52.5°	1138.8	1135.6	1133.8	1133.0	1135.0	1137.1	1135.0	1133.0	1133.8	1135.6	1138.8
55°	1048.2	1045.0	1042.4	1040.8	1042.1	1043.3	1042.1	1040.8	1042.4	1045.0	1048.2
57.5°	953.3	950.1	947.0	945.1	946.9	948.7	946.9	945.1	947.0	950.1	953.3
60°	888.6	885.3	882.8	881.1	882.4	883.7	882.4	881.1	882.8	885.3	888.6
62.5°	823.8	820.3	817.7	816.1	817.4	818.7	817.4	816.1	817.7	820.3	823.8
65°	726.0	722.8	720.2	718.5	719.1	719.7	719.1	718.5	720.2	722.8	726.0
67.5°	626.7	623.0	619.2	616.7	617.7	618.8	617.7	616.7	619.2	623.0	626.7
70°	560.3	557.1	553.8	551.4	551.4	551.4	551.4	551.4	553.8	557.1	560.3
72.5°	493.2	490.0	487.3	485.2	485.2	485.2	485.2	485.2	487.3	490.0	493.2
75°	394.2	391.6	388.4	385.8	385.2	384.5	385.2	385.8	388.4	391.6	394.2
77.5°	293.5	291.0	288.6	286.5	285.8	285.0	285.8	286.5	288.6	291.0	293.5
80°	231.7	229.8	227.8	226.0	224.8	223.5	224.8	226.0	227.8	229.8	231.7
82.5°	171.3	168.9	165.9	164.0	165.3	166.6	165.3	164.0	165.9	168.9	171.3
85°	88.0	85.8	83.2	81.1	80.5	79.8	80.5	81.1	83.2	85.8	88.0
87.5°	34.8	36.3	37.5	37.7	39.0	37.6	39.0	37.7	37.5	36.3	34.8
90°	53.9	70.3	86.7	96.1	105.5	100.8	105.5	96.1	86.7	70.3	53.9
92.5°	108.3	136.0	156.1	173.0	180.5	179.6	180.5	173.0	156.1	136.0	108.3
95°	218.0	250.8	283.6	307.1	321.2	316.5	321.2	307.1	283.6	250.8	218.0
97.5°	336.2	380.2	416.8	438.8	452.9	462.3	452.9	438.8	416.8	380.2	336.2
100°	414.9	457.1	499.3	525.1	548.5	557.9	548.5	525.1	499.3	457.1	414.9
102.5°	478.7	534.0	580.0	607.6	627.3	636.7	627.3	607.6	580.0	534.0	478.7
105°	583.7	642.3	691.5	726.7	747.8	754.8	747.8	726.7	691.5	642.3	583.7
107.5°	688.7	749.2	794.7	833.6	859.4	874.4	859.4	833.6	794.7	749.2	688.7
110°	771.2	820.5	869.7	904.9	930.6	940.0	930.6	904.9	869.7	820.5	771.2



TEST NUMBER: P1427815

CATALOG NUMBER: SQ2W-F-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	840.6	895.5	944.7	979.9	1009.4	1022.5	1009.4	979.9	944.7	895.5	840.6
115°	937.7	1010.3	1054.9	1087.7	1108.8	1120.5	1108.8	1087.7	1054.9	1010.3	937.7
117.5°	1018.3	1094.3	1143.0	1168.3	1178.2	1186.6	1178.2	1168.3	1143.0	1094.3	1018.3
120°	1068.9	1139.3	1195.5	1228.4	1240.1	1244.8	1240.1	1228.4	1195.5	1139.3	1068.9
122.5°	1115.8	1182.4	1236.8	1277.1	1296.3	1301.0	1296.3	1277.1	1236.8	1182.4	1115.8
125°	1181.5	1244.8	1301.0	1340.9	1362.0	1373.7	1362.0	1340.9	1301.0	1244.8	1181.5
127.5°	1238.7	1307.1	1358.7	1394.8	1415.4	1424.8	1415.4	1394.8	1358.7	1307.1	1238.7
130°	1270.5	1340.9	1392.4	1432.3	1451.1	1460.4	1451.1	1432.3	1392.4	1340.9	1270.5
132.5°	1294.9	1369.0	1422.5	1458.6	1479.2	1488.6	1479.2	1458.6	1422.5	1369.0	1294.9
135°	1324.5	1401.8	1458.1	1493.2	1512.0	1521.4	1512.0	1493.2	1458.1	1401.8	1324.5
137.5°	1350.3	1420.6	1479.2	1516.2	1533.1	1539.2	1533.1	1516.2	1479.2	1420.6	1350.3
140°	1369.0	1430.0	1488.6	1523.7	1542.5	1544.8	1542.5	1523.7	1488.6	1430.0	1369.0
142.5°	1393.4	1441.2	1492.3	1527.5	1546.2	1550.4	1546.2	1527.5	1492.3	1441.2	1393.4
145°	1437.0	1465.1	1500.3	1533.1	1549.5	1554.2	1549.5	1533.1	1500.3	1465.1	1437.0
147.5°	1491.8	1500.7	1519.0	1540.6	1556.5	1559.8	1556.5	1540.6	1519.0	1500.7	1491.8
150°	1533.1	1530.8	1537.8	1551.9	1565.9	1563.6	1565.9	1551.9	1537.8	1530.8	1533.1
152.5°	1580.0	1566.4	1565.9	1572.5	1579.0	1578.6	1579.0	1572.5	1565.9	1566.4	1580.0
155°	1659.7	1633.9	1619.8	1615.1	1615.1	1612.8	1615.1	1615.1	1619.8	1633.9	1659.7
157.5°	1747.4	1711.3	1690.2	1678.9	1675.6	1670.5	1675.6	1678.9	1690.2	1711.3	1747.4
160°	1807.4	1767.5	1746.4	1727.7	1720.6	1713.6	1720.6	1727.7	1746.4	1767.5	1807.4
162.5°	1863.6	1825.7	1802.7	1785.8	1778.8	1768.0	1778.8	1785.8	1802.7	1825.7	1863.6
165°	1955.1	1915.2	1889.4	1875.3	1866.0	1856.6	1866.0	1875.3	1889.4	1915.2	1955.1
167.5°	2046.5	2002.9	1986.0	1970.1	1961.1	1944.3	1961.1	1970.1	1986.0	2002.9	2046.5
170°	2102.7	2062.9	2053.5	2039.4	2023.0	2004.3	2023.0	2039.4	2053.5	2062.9	2102.7
172.5°	2151.5	2124.8	2115.4	2101.3	2096.2	2081.2	2096.2	2101.3	2115.4	2124.8	2151.5
175°	2222.3	2201.2	2201.2	2198.8	2191.8	2177.7	2191.8	2198.8	2201.2	2201.2	2222.3
177.5°	2281.4	2270.1	2277.6	2277.6	2275.7	2262.6	2275.7	2277.6	2277.6	2270.1	2281.4
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1427815

CATALOG NUMBER: SQ2W-F-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2060.6	2060.6	2060.6	2060.6
2.5°	2065.6	2069.7	2059.9	2050.1
5°	2061.5	2066.1	2053.2	2040.3
7.5°	2045.4	2049.5	2036.6	2023.7
10°	2031.1	2035.6	2022.7	2009.8
12.5°	2014.4	2018.2	2005.3	1992.4
15°	1982.7	1986.2	1973.3	1960.4
17.5°	1942.8	1946.1	1934.0	1921.8
20°	1915.0	1918.4	1906.8	1895.1
22.5°	1882.9	1885.9	1874.2	1862.6
25°	1828.9	1831.3	1819.7	1808.1
27.5°	1768.5	1770.5	1760.9	1751.2
30°	1726.3	1728.7	1719.1	1709.4
32.5°	1680.3	1683.6	1674.4	1665.3
35°	1608.3	1611.7	1604.0	1596.2
37.5°	1535.3	1538.7	1532.8	1526.9
40°	1485.0	1488.7	1482.2	1475.8
42.5°	1430.0	1433.3	1428.4	1423.5
45°	1348.1	1351.3	1346.8	1342.3
47.5°	1261.7	1264.2	1260.7	1257.2
50°	1202.5	1204.7	1200.2	1195.7
52.5°	1143.3	1145.4	1140.4	1135.3
55°	1052.1	1053.5	1047.7	1041.9
57.5°	956.7	957.8	952.1	946.4
60°	892.4	894.0	888.9	883.7
62.5°	828.2	830.2	825.0	819.9
65°	729.9	731.7	727.2	722.6
67.5°	630.5	632.3	628.4	624.6
70°	563.5	565.0	561.1	557.2
72.5°	497.0	498.9	495.6	492.2
75°	396.2	397.1	395.2	393.2
77.5°	295.9	297.8	297.8	297.8
80°	233.6	235.1	235.1	235.1
82.5°	173.3	175.0	176.0	177.0
85°	90.0	91.7	93.0	94.3
87.5°	34.0	32.1	31.3	30.4
90°	42.2	25.8	16.4	7.0
92.5°	91.0	63.3	44.5	25.8
95°	182.8	145.3	103.1	72.7
97.5°	291.1	230.7	188.9	138.8
100°	349.3	290.7	250.8	196.9
102.5°	413.0	363.8	309.0	255.0
105°	527.4	466.5	403.2	342.3
107.5°	633.4	566.4	490.4	435.5
110°	700.9	628.2	548.5	499.3



TEST NUMBER: P1427815

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	766.5	692.0	610.4	561.2
115°	855.6	773.6	698.6	656.4
117.5°	941.4	857.0	777.8	744.5
120°	993.9	909.5	832.2	806.4
122.5°	1037.1	954.6	882.8	872.0
125°	1101.8	1017.4	956.4	970.5
127.5°	1154.3	1076.9	1038.5	1069.9
130°	1186.2	1118.2	1094.7	1139.3
132.5°	1214.3	1161.3	1151.0	1212.4
135°	1256.5	1226.0	1235.4	1319.8
137.5°	1306.6	1294.9	1326.3	1432.8
140°	1338.5	1345.6	1390.1	1509.7
142.5°	1381.7	1398.1	1455.7	1582.8
145°	1448.7	1483.9	1558.9	1685.5
147.5°	1524.7	1570.1	1663.0	1792.8
150°	1575.3	1633.9	1732.4	1856.6
152.5°	1633.4	1693.9	1792.4	1918.5
155°	1723.0	1791.0	1894.1	2001.9
157.5°	1814.4	1883.8	1982.2	2076.5
160°	1870.7	1945.7	2034.8	2121.5
162.5°	1934.4	2003.8	2081.6	2159.0
165°	2027.7	2084.0	2147.3	2212.9
167.5°	2106.0	2152.9	2202.6	2253.7
170°	2156.7	2194.2	2236.4	2276.2
172.5°	2199.8	2229.8	2260.7	2295.0
175°	2257.5	2273.9	2292.6	2313.7
177.5°	2302.0	2307.6	2313.2	2322.6
180°	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1427815  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	19.67	20.51	20.66	21.51	22.84	19.59	20.43	20.57	21.43	22.75
	3H	21.46	22.21	22.46	23.22	24.57	21.36	22.11	22.36	23.12	24.47
	4H	22.15	22.87	23.17	23.88	25.23	22.04	22.75	23.05	23.77	25.12
	6H	22.59	23.25	23.61	24.27	25.63	22.45	23.11	23.47	24.12	25.49
	8H	22.75	23.38	23.78	24.41	25.77	22.59	23.22	23.62	24.26	25.62
	12H	22.83	23.43	23.87	24.46	25.84	22.66	23.25	23.69	24.28	25.67
4H	2H	20.25	20.96	21.27	21.98	23.33	20.18	20.90	21.20	21.91	23.26
	3H	22.27	22.86	23.29	23.91	25.27	22.18	22.77	23.20	23.81	25.18
	4H	23.08	23.63	24.11	24.66	26.05	22.97	23.52	24.00	24.55	25.94
	6H	23.63	24.10	24.68	25.16	26.55	23.49	23.96	24.54	25.02	26.40
	8H	23.85	24.29	24.89	25.34	26.74	23.69	24.13	24.73	25.18	26.58
	12H	23.96	24.36	25.02	25.42	26.83	23.77	24.17	24.84	25.24	26.64
8H	4H	23.32	23.76	24.37	24.81	26.21	23.23	23.67	24.27	24.72	26.12
	6H	24.01	24.38	25.08	25.47	26.87	23.88	24.24	24.95	25.34	26.73
	8H	24.32	24.64	25.39	25.71	27.13	24.16	24.48	25.24	25.56	26.97
	12H	24.50	24.78	25.58	25.85	27.31	24.31	24.59	25.39	25.66	27.12
12H	4H	23.32	23.71	24.38	24.78	26.18	23.22	23.62	24.29	24.69	26.09
	6H	24.06	24.38	25.14	25.46	26.87	23.94	24.26	25.01	25.33	26.75
	8H	24.40	24.68	25.48	25.75	27.21	24.24	24.53	25.32	25.60	27.05