

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: P1427951

Luminaire Tested: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427951
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

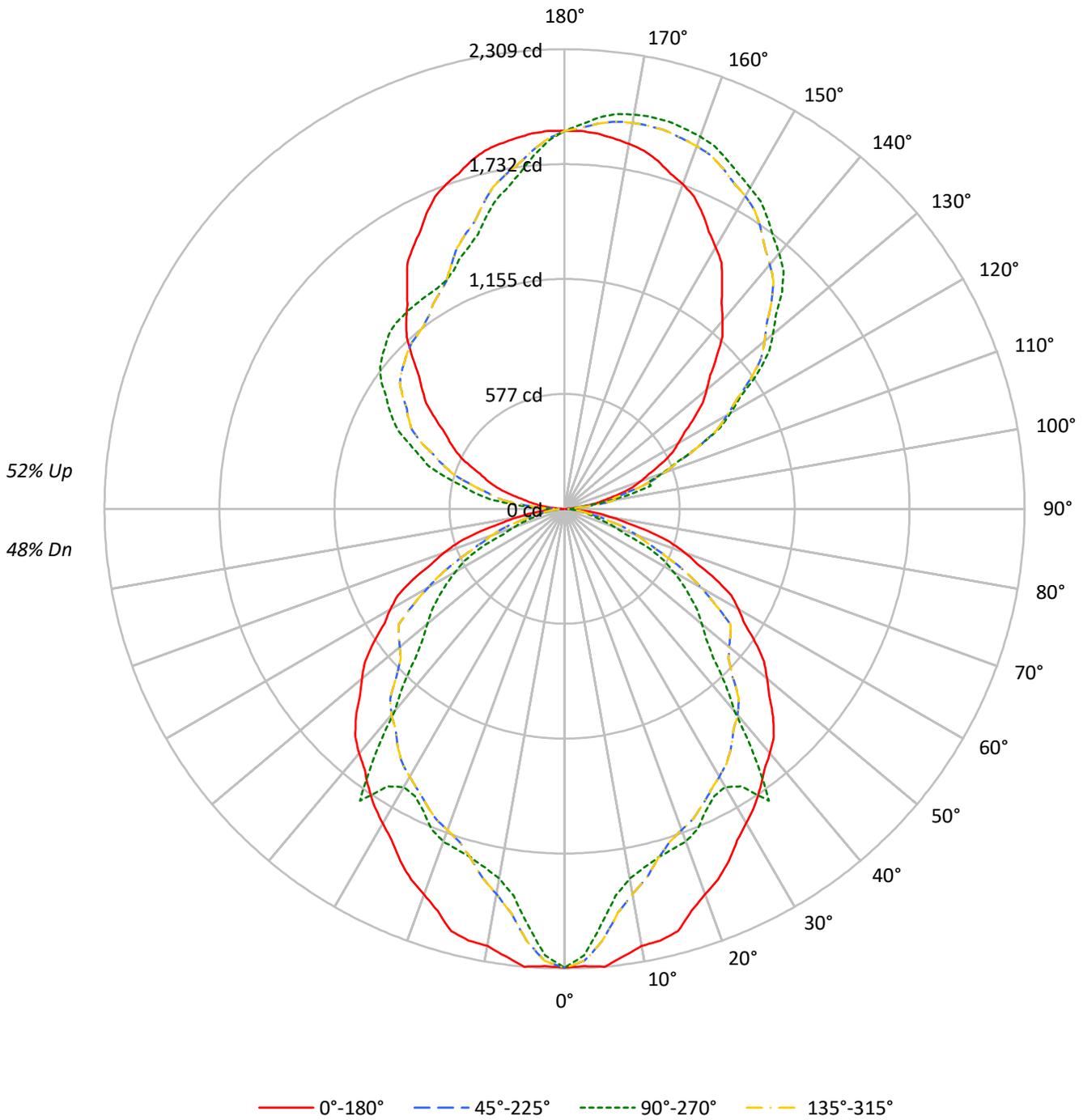
Lumens per Lamp: N/A
Luminaire Lumens: 10646.3 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 81.6
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39	34
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	35	33	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	37212	37212	37212	37212
5°	37426	34014	37426	34014
10°	36563	30919	36563	30919
15°	36728	30315	36728	30315
20°	35418	30558	35418	30558
25°	34769	29847	34769	29847
30°	34015	30090	34015	30090
35°	33757	35271	33757	35271
40°	33788	27962	33788	27962
45°	33798	24085	33798	24085
50°	33324	22584	33324	22584
55°	32900	21666	32900	21666
60°	32575	20324	32575	20324
65°	32003	17677	32003	17677
70°	30226	12628	30226	12628
75°	26949	9576	26949	9576
80°	22017	8972	22017	8972
85°	13820	6095	13820	6095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	1.9
10°-20°	533.4	5.0
20°-30°	782.1	7.3
30°-40°	947.0	8.9
40°-50°	931.2	8.7
50°-60°	810.0	7.6
60°-70°	563.4	5.3
70°-80°	267.2	2.5
80°-90°	66.8	0.6
90°-100°	151.1	1.4
100°-110°	440.5	4.1
110°-120°	719.0	6.8
120°-130°	912.3	8.6
130°-140°	976.2	9.2
140°-150°	911.5	8.6
150°-160°	750.1	7.0
160°-170°	503.1	4.7
170°-180°	178.6	1.7
0°-30°	1518.3	14.3
0°-40°	2465.4	23.2
0°-60°	4206.6	39.5
0°-90°	5103.9	47.9
90°-120°	1310.6	12.3
90°-150°	4110.6	38.6
90°-180°	5542.0	52.1
0°-180°	10646.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2305	2305	2305	2305	2305	
5°	2309	2099	2309	2099	2309	217
15°	2197	1814	2197	1814	2197	613
25°	1952	1675	1952	1675	1952	898
35°	1713	1790	1713	1790	1713	1073
45°	1480	1055	1480	1055	1480	1138
55°	1169	770	1169	770	1169	1044
65°	838	463	838	463	838	823
75°	432	154	432	154	432	458
85°	75	33	75	33	75	100
90°	6	42	6	82	6	7
95°	59	44	59	259	59	72
105°	280	449	280	617	280	298
115°	537	744	537	916	537	529
125°	794	1179	794	1124	794	710
135°	1080	1544	1080	1244	1080	834
145°	1379	1779	1379	1271	1379	863
155°	1637	1933	1637	1319	1637	753
165°	1810	2015	1810	1519	1810	510
175°	1892	1973	1892	1781	1892	180
180°	1898	1898	1898	1898	1898	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2299.5	2310.4	2321.4	2306.0	2281.8	2265.0	2255.7	2248.3	2246.7	2245.1	2246.7
5°	2309.2	2308.2	2307.2	2261.7	2201.2	2155.9	2125.7	2102.6	2100.6	2098.7	2100.6
7.5°	2267.1	2236.9	2206.6	2145.4	2073.9	2021.5	1988.1	1962.7	1961.2	1959.6	1961.2
10°	2230.2	2184.4	2138.6	2069.4	1992.4	1938.8	1908.6	1885.9	1885.9	1885.9	1885.9
12.5°	2221.5	2149.1	2076.8	2001.0	1924.0	1874.3	1851.9	1836.2	1840.9	1845.6	1840.9
15°	2197.3	2088.2	1979.0	1902.0	1835.7	1799.7	1793.8	1792.1	1802.9	1813.6	1802.9
17.5°	2117.5	2000.0	1882.4	1814.7	1763.7	1744.4	1756.8	1769.3	1781.8	1794.3	1781.8
20°	2061.4	1945.4	1829.4	1766.8	1722.0	1711.2	1734.6	1755.1	1766.8	1778.5	1766.8
22.5°	2014.0	1896.5	1778.9	1723.5	1688.8	1684.3	1710.1	1730.9	1737.2	1743.4	1737.2
25°	1951.7	1819.2	1686.6	1646.2	1636.4	1642.8	1665.2	1681.3	1678.3	1675.4	1678.3
27.5°	1877.2	1738.8	1600.4	1574.4	1585.9	1598.5	1612.1	1622.8	1624.5	1626.3	1624.5
30°	1824.5	1686.1	1547.7	1527.0	1545.5	1561.6	1575.3	1588.7	1601.3	1614.0	1601.3
32.5°	1773.7	1630.6	1487.5	1472.6	1500.5	1530.6	1563.0	1594.5	1623.6	1652.6	1623.6
35°	1712.7	1563.6	1414.5	1402.8	1436.9	1480.7	1534.3	1598.4	1693.9	1789.5	1693.9
37.5°	1648.7	1488.8	1329.0	1323.7	1369.9	1416.1	1462.3	1504.5	1534.9	1565.3	1534.9
40°	1603.1	1435.4	1267.8	1267.5	1323.1	1380.6	1440.0	1467.1	1396.9	1326.7	1396.9
42.5°	1553.9	1386.3	1218.6	1213.7	1263.0	1326.4	1403.8	1432.2	1313.7	1195.2	1313.7
45°	1480.2	1305.8	1131.3	1125.0	1174.7	1209.8	1230.2	1224.4	1139.6	1054.8	1139.6
47.5°	1393.4	1227.1	1060.9	1059.5	1113.1	1117.0	1071.2	1028.5	995.4	962.3	995.4
50°	1326.7	1169.8	1012.9	1019.7	1081.1	1075.3	1002.2	942.0	920.6	899.1	920.6
52.5°	1261.8	1112.7	963.6	981.7	1055.6	1043.9	946.6	870.1	855.6	841.2	855.6
55°	1168.8	1025.6	882.3	923.2	1025.6	1010.0	876.5	775.6	772.7	769.7	772.7
57.5°	1070.2	934.7	799.2	827.6	910.7	894.3	778.5	692.9	698.0	703.1	698.0
60°	1008.8	877.2	745.6	749.3	798.0	782.4	702.5	641.1	635.2	629.4	635.2
62.5°	943.8	818.5	693.2	675.0	692.5	674.2	620.0	577.9	572.1	566.2	572.1
65°	837.7	723.7	609.6	575.3	567.5	541.2	496.3	462.7	462.7	462.7	462.7
67.5°	721.0	621.6	522.2	483.8	465.6	439.5	405.4	374.0	350.6	327.2	350.6
70°	640.3	552.6	464.9	424.7	400.3	369.1	331.1	298.7	283.1	267.5	283.1
72.5°	554.4	479.1	403.9	362.7	332.9	302.5	271.5	243.8	225.8	207.9	225.8
75°	432.0	371.6	311.2	271.2	238.1	207.4	179.1	157.4	155.5	153.5	155.5
77.5°	312.3	268.2	224.2	191.8	163.4	142.0	127.8	117.2	117.3	117.5	117.3
80°	236.8	203.7	170.6	140.3	111.1	96.0	95.0	94.5	95.5	96.5	95.5
82.5°	166.7	142.1	117.5	98.2	80.7	72.6	74.0	75.0	75.2	75.4	75.2
85°	74.6	62.9	51.2	46.8	44.8	41.9	38.0	34.8	33.9	32.9	33.9
87.5°	16.9	17.7	18.8	18.4	17.2	16.4	16.4	16.8	17.2	17.2	17.2
90°	5.8	13.4	23.0	30.7	36.4	38.3	38.3	40.3	42.2	42.2	42.2
92.5°	21.1	33.4	33.7	33.7	41.0	44.5	47.6	47.9	49.9	49.9	49.9
95°	59.4	65.2	97.8	95.9	65.2	51.8	44.1	44.1	44.1	44.1	44.1
97.5°	113.5	121.9	127.3	170.6	180.2	174.1	141.9	119.3	106.6	100.9	106.6
100°	161.1	164.9	176.4	178.3	226.2	272.3	249.3	220.5	210.9	205.2	210.9
102.5°	208.6	210.9	228.5	236.6	247.7	273.8	353.6	344.7	338.2	337.1	338.2
105°	279.9	281.9	314.4	329.8	337.5	337.5	335.5	373.9	435.2	448.7	435.2
107.5°	356.2	365.1	403.4	444.4	453.3	455.6	445.6	439.8	437.5	439.1	437.5
110°	408.4	421.8	467.8	519.6	533.0	536.9	533.0	527.3	523.4	523.4	523.4

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	459.0	478.6	530.7	590.2	612.8	624.3	615.9	611.6	607.8	610.9	607.8
115°	536.9	565.6	634.6	696.0	742.0	747.8	745.9	745.9	743.9	743.9	743.9
117.5°	609.0	655.0	732.4	803.8	857.1	872.4	880.1	877.8	875.5	879.3	875.5
120°	659.6	713.3	801.5	882.0	933.8	956.8	964.4	960.6	964.4	960.6	964.4
122.5°	713.3	779.2	865.9	949.5	1010.5	1036.5	1045.7	1046.5	1047.3	1045.0	1047.3
125°	793.8	874.3	975.9	1062.2	1125.5	1156.2	1163.8	1165.8	1169.6	1179.2	1169.6
127.5°	875.1	966.4	1077.9	1161.2	1226.0	1263.2	1275.0	1279.3	1287.3	1291.5	1287.3
130°	931.8	1035.4	1148.5	1227.1	1290.4	1330.7	1351.7	1357.5	1367.1	1365.2	1367.1
132.5°	991.7	1099.8	1214.5	1296.1	1354.8	1398.1	1416.2	1432.7	1436.1	1438.8	1436.1
135°	1079.5	1196.4	1311.5	1392.0	1447.6	1489.8	1512.8	1528.1	1537.7	1543.5	1537.7
137.5°	1171.9	1295.4	1405.8	1477.5	1533.5	1569.9	1596.0	1612.1	1622.1	1626.7	1622.1
140°	1234.8	1353.7	1461.0	1535.8	1585.7	1622.1	1645.1	1664.3	1675.8	1675.8	1675.8
142.5°	1294.6	1411.9	1516.3	1591.0	1634.7	1668.1	1692.6	1707.2	1720.3	1720.3	1720.3
145°	1378.6	1495.5	1591.4	1666.2	1702.6	1733.3	1760.1	1771.6	1779.3	1779.3	1779.3
147.5°	1466.4	1569.9	1657.4	1729.1	1759.8	1795.8	1816.9	1826.1	1835.7	1831.5	1835.7
150°	1518.6	1614.4	1698.8	1765.9	1796.6	1831.1	1852.2	1859.8	1869.4	1863.7	1869.4
152.5°	1569.2	1660.4	1737.1	1799.6	1825.7	1860.2	1884.4	1892.1	1898.6	1894.4	1898.6
155°	1637.4	1718.0	1788.9	1846.4	1869.4	1902.0	1925.0	1934.6	1942.3	1932.7	1942.3
157.5°	1698.4	1767.8	1829.5	1882.5	1907.0	1935.0	1956.5	1968.4	1976.0	1971.8	1976.0
160°	1735.2	1798.5	1854.1	1903.9	1927.0	1951.9	1974.9	1988.3	1996.0	1990.2	1996.0
162.5°	1765.9	1823.0	1875.6	1920.8	1940.8	1962.6	1990.2	2002.1	2009.8	2002.5	2009.8
165°	1810.0	1856.0	1902.0	1940.4	1957.6	1974.9	2003.6	2017.1	2022.8	2015.1	2022.8
167.5°	1843.4	1878.6	1915.8	1948.8	1961.5	1978.3	2007.1	2018.2	2025.5	2015.9	2025.5
170°	1861.8	1892.4	1925.0	1951.9	1961.5	1976.8	2005.6	2015.1	2020.9	2011.3	2020.9
172.5°	1877.1	1900.1	1926.6	1950.3	1955.3	1967.6	1994.8	2004.4	2008.6	2000.6	2008.6
175°	1892.4	1905.9	1925.0	1940.4	1938.5	1946.1	1969.1	1976.8	1984.5	1973.0	1984.5
177.5°	1899.7	1905.9	1912.0	1921.2	1915.1	1915.1	1931.9	1936.5	1938.1	1931.9	1938.1
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2248.3	2255.7	2265.0	2281.8	2306.0	2321.4	2310.4	2299.5	2310.4	2321.4	2306.0
5°	2102.6	2125.7	2155.9	2201.2	2261.7	2307.2	2308.2	2309.2	2308.2	2307.2	2261.7
7.5°	1962.7	1988.1	2021.5	2073.9	2145.4	2206.6	2236.9	2267.1	2236.9	2206.6	2145.4
10°	1885.9	1908.6	1938.8	1992.4	2069.4	2138.6	2184.4	2230.2	2184.4	2138.6	2069.4
12.5°	1836.2	1851.9	1874.3	1924.0	2001.0	2076.8	2149.1	2221.5	2149.1	2076.8	2001.0
15°	1792.1	1793.8	1799.7	1835.7	1902.0	1979.0	2088.2	2197.3	2088.2	1979.0	1902.0
17.5°	1769.3	1756.8	1744.4	1763.7	1814.7	1882.4	2000.0	2117.5	2000.0	1882.4	1814.7
20°	1755.1	1734.6	1711.2	1722.0	1766.8	1829.4	1945.4	2061.4	1945.4	1829.4	1766.8
22.5°	1730.9	1710.1	1684.3	1688.8	1723.5	1778.9	1896.5	2014.0	1896.5	1778.9	1723.5
25°	1681.3	1665.2	1642.8	1636.4	1646.2	1686.6	1819.2	1951.7	1819.2	1686.6	1646.2
27.5°	1622.8	1612.1	1598.5	1585.9	1574.4	1600.4	1738.8	1877.2	1738.8	1600.4	1574.4
30°	1588.7	1575.3	1561.6	1545.5	1527.0	1547.7	1686.1	1824.5	1686.1	1547.7	1527.0
32.5°	1594.5	1563.0	1530.6	1500.5	1472.6	1487.5	1630.6	1773.7	1630.6	1487.5	1472.6
35°	1598.4	1534.3	1480.7	1436.9	1402.8	1414.5	1563.6	1712.7	1563.6	1414.5	1402.8
37.5°	1504.5	1462.3	1416.1	1369.9	1323.7	1329.0	1488.8	1648.7	1488.8	1329.0	1323.7
40°	1467.1	1440.0	1380.6	1323.1	1267.5	1267.8	1435.4	1603.1	1435.4	1267.8	1267.5
42.5°	1432.2	1403.8	1326.4	1263.0	1213.7	1218.6	1386.3	1553.9	1386.3	1218.6	1213.7
45°	1224.4	1230.2	1209.8	1174.7	1125.0	1131.3	1305.8	1480.2	1305.8	1131.3	1125.0
47.5°	1028.5	1071.2	1117.0	1113.1	1059.5	1060.9	1227.1	1393.4	1227.1	1060.9	1059.5
50°	942.0	1002.2	1075.3	1081.1	1019.7	1012.9	1169.8	1326.7	1169.8	1012.9	1019.7
52.5°	870.1	946.6	1043.9	1055.6	981.7	963.6	1112.7	1261.8	1112.7	963.6	981.7
55°	775.6	876.5	1010.0	1025.6	923.2	882.3	1025.6	1168.8	1025.6	882.3	923.2
57.5°	692.9	778.5	894.3	910.7	827.6	799.2	934.7	1070.2	934.7	799.2	827.6
60°	641.1	702.5	782.4	798.0	749.3	745.6	877.2	1008.8	877.2	745.6	749.3
62.5°	577.9	620.0	674.2	692.5	675.0	693.2	818.5	943.8	818.5	693.2	675.0
65°	462.7	496.3	541.2	567.5	575.3	609.6	723.7	837.7	723.7	609.6	575.3
67.5°	374.0	405.4	439.5	465.6	483.8	522.2	621.6	721.0	621.6	522.2	483.8
70°	298.7	331.1	369.1	400.3	424.7	464.9	552.6	640.3	552.6	464.9	424.7
72.5°	243.8	271.5	302.5	332.9	362.7	403.9	479.1	554.4	479.1	403.9	362.7
75°	157.4	179.1	207.4	238.1	271.2	311.2	371.6	432.0	371.6	311.2	271.2
77.5°	117.2	127.8	142.0	163.4	191.8	224.2	268.2	312.3	268.2	224.2	191.8
80°	94.5	95.0	96.0	111.1	140.3	170.6	203.7	236.8	203.7	170.6	140.3
82.5°	75.0	74.0	72.6	80.7	98.2	117.5	142.1	166.7	142.1	117.5	98.2
85°	34.8	38.0	41.9	44.8	46.8	51.2	62.9	74.6	62.9	51.2	46.8
87.5°	16.8	16.4	16.4	17.2	18.4	18.8	17.7	16.9	17.7	18.4	19.2
90°	40.3	38.3	38.3	36.4	30.7	23.0	13.4	5.8	13.4	21.1	34.5
92.5°	47.9	47.6	44.5	41.0	33.7	33.7	33.4	21.1	36.4	51.8	74.4
95°	44.1	44.1	51.8	65.2	95.9	97.8	65.2	59.4	84.4	118.9	149.6
97.5°	119.3	141.9	174.1	180.2	170.6	127.3	121.9	113.5	154.5	188.7	238.1
100°	220.5	249.3	272.3	226.2	178.3	176.4	164.9	161.1	205.2	237.8	285.7
102.5°	344.7	353.6	273.8	247.7	236.6	228.5	210.9	208.6	252.7	297.6	337.8
105°	373.9	335.5	337.5	337.5	329.8	314.4	281.9	279.9	329.8	381.6	431.4
107.5°	439.8	445.6	455.6	453.3	444.4	403.4	365.1	356.2	401.1	463.2	518.1
110°	527.3	533.0	536.9	533.0	519.6	467.8	421.8	408.4	448.7	513.9	573.3



TEST NUMBER: P1427951

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	611.6	615.9	624.3	612.8	590.2	530.7	478.6	459.0	499.3	566.0	627.0
115°	745.9	745.9	747.8	742.0	696.0	634.6	565.6	536.9	571.4	632.7	699.8
117.5°	877.8	880.1	872.4	857.1	803.8	732.4	655.0	609.0	636.2	701.0	770.0
120°	960.6	964.4	956.8	933.8	882.0	801.5	713.3	659.6	680.7	743.9	813.0
122.5°	1046.5	1045.7	1036.5	1010.5	949.5	865.9	779.2	713.3	722.1	780.8	848.2
125°	1165.8	1163.8	1156.2	1125.5	1062.2	975.9	874.3	793.8	782.3	832.1	901.2
127.5°	1279.3	1275.0	1263.2	1226.0	1161.2	1077.9	966.4	875.1	849.4	880.8	944.1
130°	1357.5	1351.7	1330.7	1290.4	1227.1	1148.5	1035.4	931.8	895.4	914.6	970.2
132.5°	1432.7	1416.2	1398.1	1354.8	1296.1	1214.5	1099.8	991.7	941.4	949.9	993.2
135°	1528.1	1512.8	1489.8	1447.6	1392.0	1311.5	1196.4	1079.5	1010.5	1002.8	1027.7
137.5°	1612.1	1596.0	1569.9	1533.5	1477.5	1405.8	1295.4	1171.9	1084.8	1059.2	1068.7
140°	1664.3	1645.1	1622.1	1585.7	1535.8	1461.0	1353.7	1234.8	1137.0	1100.6	1094.8
142.5°	1707.2	1692.6	1668.1	1634.7	1591.0	1516.3	1411.9	1294.6	1190.7	1143.5	1130.1
145°	1771.6	1760.1	1733.3	1702.6	1666.2	1591.4	1495.5	1378.6	1275.0	1213.7	1184.9
147.5°	1826.1	1816.9	1795.8	1759.8	1729.1	1657.4	1569.9	1466.4	1360.2	1284.3	1247.1
150°	1859.8	1852.2	1831.1	1796.6	1765.9	1698.8	1614.4	1518.6	1416.9	1336.4	1288.5
152.5°	1892.1	1884.4	1860.2	1825.7	1799.6	1737.1	1660.4	1569.2	1466.0	1385.5	1336.0
155°	1934.6	1925.0	1902.0	1869.4	1846.4	1788.9	1718.0	1637.4	1549.2	1464.9	1409.3
157.5°	1968.4	1956.5	1935.0	1907.0	1882.5	1829.5	1767.8	1698.4	1621.3	1540.8	1484.0
160°	1988.3	1974.9	1951.9	1927.0	1903.9	1854.1	1798.5	1735.2	1664.3	1591.4	1530.1
162.5°	2002.1	1990.2	1962.6	1940.8	1920.8	1875.6	1823.0	1765.9	1702.6	1639.0	1582.2
165°	2017.1	2003.6	1974.9	1957.6	1940.4	1902.0	1856.0	1810.0	1756.3	1704.5	1658.5
167.5°	2018.2	2007.1	1978.3	1961.5	1948.8	1915.8	1878.6	1843.4	1801.6	1760.9	1722.6
170°	2015.1	2005.6	1976.8	1961.5	1951.9	1925.0	1892.4	1861.8	1829.2	1794.7	1764.0
172.5°	2004.4	1994.8	1967.6	1955.3	1950.3	1926.6	1900.1	1877.1	1849.1	1823.8	1799.3
175°	1976.8	1969.1	1946.1	1938.5	1940.4	1925.0	1905.9	1892.4	1875.2	1859.8	1846.4
177.5°	1936.5	1931.9	1915.1	1915.1	1921.2	1912.0	1905.9	1899.7	1892.1	1887.5	1882.9
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1427951

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2281.8	2265.0	2255.7	2248.3	2246.7	2245.1	2246.7	2248.3	2255.7	2265.0	2281.8
5°	2201.2	2155.9	2125.7	2102.6	2100.6	2098.7	2100.6	2102.6	2125.7	2155.9	2201.2
7.5°	2073.9	2021.5	1988.1	1962.7	1961.2	1959.6	1961.2	1962.7	1988.1	2021.5	2073.9
10°	1992.4	1938.8	1908.6	1885.9	1885.9	1885.9	1885.9	1885.9	1908.6	1938.8	1992.4
12.5°	1924.0	1874.3	1851.9	1836.2	1840.9	1845.6	1840.9	1836.2	1851.9	1874.3	1924.0
15°	1835.7	1799.7	1793.8	1792.1	1802.9	1813.6	1802.9	1792.1	1793.8	1799.7	1835.7
17.5°	1763.7	1744.4	1756.8	1769.3	1781.8	1794.3	1781.8	1769.3	1756.8	1744.4	1763.7
20°	1722.0	1711.2	1734.6	1755.1	1766.8	1778.5	1766.8	1755.1	1734.6	1711.2	1722.0
22.5°	1688.8	1684.3	1710.1	1730.9	1737.2	1743.4	1737.2	1730.9	1710.1	1684.3	1688.8
25°	1636.4	1642.8	1665.2	1681.3	1678.3	1675.4	1678.3	1681.3	1665.2	1642.8	1636.4
27.5°	1585.9	1598.5	1612.1	1622.8	1624.5	1626.3	1624.5	1622.8	1612.1	1598.5	1585.9
30°	1545.5	1561.6	1575.3	1588.7	1601.3	1614.0	1601.3	1588.7	1575.3	1561.6	1545.5
32.5°	1500.5	1530.6	1563.0	1594.5	1623.6	1652.6	1623.6	1594.5	1563.0	1530.6	1500.5
35°	1436.9	1480.7	1534.3	1598.4	1693.9	1789.5	1693.9	1598.4	1534.3	1480.7	1436.9
37.5°	1369.9	1416.1	1462.3	1504.5	1534.9	1565.3	1534.9	1504.5	1462.3	1416.1	1369.9
40°	1323.1	1380.6	1440.0	1467.1	1396.9	1326.7	1396.9	1467.1	1440.0	1380.6	1323.1
42.5°	1263.0	1326.4	1403.8	1432.2	1313.7	1195.2	1313.7	1432.2	1403.8	1326.4	1263.0
45°	1174.7	1209.8	1230.2	1224.4	1139.6	1054.8	1139.6	1224.4	1230.2	1209.8	1174.7
47.5°	1113.1	1117.0	1071.2	1028.5	995.4	962.3	995.4	1028.5	1071.2	1117.0	1113.1
50°	1081.1	1075.3	1002.2	942.0	920.6	899.1	920.6	942.0	1002.2	1075.3	1081.1
52.5°	1055.6	1043.9	946.6	870.1	855.6	841.2	855.6	870.1	946.6	1043.9	1055.6
55°	1025.6	1010.0	876.5	775.6	772.7	769.7	772.7	775.6	876.5	1010.0	1025.6
57.5°	910.7	894.3	778.5	692.9	698.0	703.1	698.0	692.9	778.5	894.3	910.7
60°	798.0	782.4	702.5	641.1	635.2	629.4	635.2	641.1	702.5	782.4	798.0
62.5°	692.5	674.2	620.0	577.9	572.1	566.2	572.1	577.9	620.0	674.2	692.5
65°	567.5	541.2	496.3	462.7	462.7	462.7	462.7	462.7	496.3	541.2	567.5
67.5°	465.6	439.5	405.4	374.0	350.6	327.2	350.6	374.0	405.4	439.5	465.6
70°	400.3	369.1	331.1	298.7	283.1	267.5	283.1	298.7	331.1	369.1	400.3
72.5°	332.9	302.5	271.5	243.8	225.8	207.9	225.8	243.8	271.5	302.5	332.9
75°	238.1	207.4	179.1	157.4	155.5	153.5	155.5	157.4	179.1	207.4	238.1
77.5°	163.4	142.0	127.8	117.2	117.3	117.5	117.3	117.2	127.8	142.0	163.4
80°	111.1	96.0	95.0	94.5	95.5	96.5	95.5	94.5	95.0	96.0	111.1
82.5°	80.7	72.6	74.0	75.0	75.2	75.4	75.2	75.0	74.0	72.6	80.7
85°	44.8	41.9	38.0	34.8	33.9	32.9	33.9	34.8	38.0	41.9	44.8
87.5°	18.8	20.3	23.0	24.5	26.0	25.3	26.0	24.5	23.0	20.3	18.8
90°	44.1	57.5	70.9	78.6	86.3	82.4	86.3	78.6	70.9	57.5	44.1
92.5°	88.6	111.2	127.7	141.5	147.6	146.9	147.6	141.5	127.7	111.2	88.6
95°	178.3	205.2	232.0	251.2	262.7	258.8	262.7	251.2	232.0	205.2	178.3
97.5°	275.0	311.0	340.9	358.9	370.4	378.1	370.4	358.9	340.9	311.0	275.0
100°	339.4	373.9	408.4	429.5	448.7	456.3	448.7	429.5	408.4	373.9	339.4
102.5°	391.5	436.8	474.4	497.0	513.1	520.8	513.1	497.0	474.4	436.8	391.5
105°	477.4	525.4	565.6	594.4	611.6	617.4	611.6	594.4	565.6	525.4	477.4
107.5°	563.3	612.8	650.0	681.8	702.9	715.2	702.9	681.8	650.0	612.8	563.3
110°	630.8	671.1	711.3	740.1	761.2	768.9	761.2	740.1	711.3	671.1	630.8



TEST NUMBER: P1427951

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	687.6	732.4	772.7	801.5	825.6	836.4	825.6	801.5	772.7	732.4	687.6
115°	766.9	826.4	862.8	889.7	906.9	916.5	906.9	889.7	862.8	826.4	766.9
117.5°	832.9	895.0	934.9	955.6	963.7	970.6	963.7	955.6	934.9	895.0	832.9
120°	874.3	931.8	977.9	1004.7	1014.3	1018.1	1014.3	1004.7	977.9	931.8	874.3
122.5°	912.7	967.1	1011.6	1044.6	1060.3	1064.1	1060.3	1044.6	1011.6	967.1	912.7
125°	966.4	1018.1	1064.1	1096.7	1114.0	1123.6	1114.0	1096.7	1064.1	1018.1	966.4
127.5°	1013.1	1069.1	1111.3	1140.8	1157.7	1165.4	1157.7	1140.8	1111.3	1069.1	1013.1
130°	1039.2	1096.7	1138.9	1171.5	1186.8	1194.5	1186.8	1171.5	1138.9	1096.7	1039.2
132.5°	1059.2	1119.7	1163.5	1193.0	1209.9	1217.5	1209.9	1193.0	1163.5	1119.7	1059.2
135°	1083.3	1146.6	1192.6	1221.4	1236.7	1244.4	1236.7	1221.4	1192.6	1146.6	1083.3
137.5°	1104.4	1161.9	1209.9	1240.2	1254.0	1258.9	1254.0	1240.2	1209.9	1161.9	1104.4
140°	1119.7	1169.6	1217.5	1246.3	1261.6	1263.5	1261.6	1246.3	1217.5	1169.6	1119.7
142.5°	1139.7	1178.8	1220.6	1249.4	1264.7	1268.1	1264.7	1249.4	1220.6	1178.8	1139.7
145°	1175.3	1198.4	1227.1	1254.0	1267.4	1271.2	1267.4	1254.0	1227.1	1198.4	1175.3
147.5°	1220.2	1227.5	1242.5	1260.1	1273.1	1275.8	1273.1	1260.1	1242.5	1227.5	1220.2
150°	1254.0	1252.0	1257.8	1269.3	1280.8	1278.9	1280.8	1269.3	1257.8	1252.0	1254.0
152.5°	1292.3	1281.2	1280.8	1286.2	1291.5	1291.2	1291.5	1286.2	1280.8	1281.2	1292.3
155°	1357.5	1336.4	1324.9	1321.1	1321.1	1319.1	1321.1	1321.1	1324.9	1336.4	1357.5
157.5°	1429.2	1399.7	1382.4	1373.2	1370.5	1366.3	1370.5	1373.2	1382.4	1399.7	1429.2
160°	1478.3	1445.7	1428.4	1413.1	1407.3	1401.6	1407.3	1413.1	1428.4	1445.7	1478.3
162.5°	1524.3	1493.2	1474.5	1460.6	1454.9	1446.1	1454.9	1460.6	1474.5	1493.2	1524.3
165°	1599.1	1566.5	1545.4	1533.9	1526.2	1518.6	1526.2	1533.9	1545.4	1566.5	1599.1
167.5°	1673.9	1638.2	1624.4	1611.4	1604.1	1590.3	1604.1	1611.4	1624.4	1638.2	1673.9
170°	1719.9	1687.3	1679.6	1668.1	1654.7	1639.3	1654.7	1668.1	1679.6	1687.3	1719.9
172.5°	1759.8	1737.9	1730.2	1718.7	1714.5	1702.2	1714.5	1718.7	1730.2	1737.9	1759.8
175°	1817.7	1800.4	1800.4	1798.5	1792.7	1781.2	1792.7	1798.5	1800.4	1800.4	1817.7
177.5°	1866.0	1856.8	1862.9	1862.9	1861.4	1850.6	1861.4	1862.9	1862.9	1856.8	1866.0
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1427951

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2304.8	2304.8	2304.8	2304.8
2.5°	2306.0	2321.4	2310.4	2299.5
5°	2261.7	2307.2	2308.2	2309.2
7.5°	2145.4	2206.6	2236.9	2267.1
10°	2069.4	2138.6	2184.4	2230.2
12.5°	2001.0	2076.8	2149.1	2221.5
15°	1902.0	1979.0	2088.2	2197.3
17.5°	1814.7	1882.4	2000.0	2117.5
20°	1766.8	1829.4	1945.4	2061.4
22.5°	1723.5	1778.9	1896.5	2014.0
25°	1646.2	1686.6	1819.2	1951.7
27.5°	1574.4	1600.4	1738.8	1877.2
30°	1527.0	1547.7	1686.1	1824.5
32.5°	1472.6	1487.5	1630.6	1773.7
35°	1402.8	1414.5	1563.6	1712.7
37.5°	1323.7	1329.0	1488.8	1648.7
40°	1267.5	1267.8	1435.4	1603.1
42.5°	1213.7	1218.6	1386.3	1553.9
45°	1125.0	1131.3	1305.8	1480.2
47.5°	1059.5	1060.9	1227.1	1393.4
50°	1019.7	1012.9	1169.8	1326.7
52.5°	981.7	963.6	1112.7	1261.8
55°	923.2	882.3	1025.6	1168.8
57.5°	827.6	799.2	934.7	1070.2
60°	749.3	745.6	877.2	1008.8
62.5°	675.0	693.2	818.5	943.8
65°	575.3	609.6	723.7	837.7
67.5°	483.8	522.2	621.6	721.0
70°	424.7	464.9	552.6	640.3
72.5°	362.7	403.9	479.1	554.4
75°	271.2	311.2	371.6	432.0
77.5°	191.8	224.2	268.2	312.3
80°	140.3	170.6	203.7	236.8
82.5°	98.2	117.5	142.1	166.7
85°	46.8	51.2	62.9	74.6
87.5°	19.2	18.4	17.7	16.9
90°	34.5	21.1	13.4	5.8
92.5°	74.4	51.8	36.4	21.1
95°	149.6	118.9	84.4	59.4
97.5°	238.1	188.7	154.5	113.5
100°	285.7	237.8	205.2	161.1
102.5°	337.8	297.6	252.7	208.6
105°	431.4	381.6	329.8	279.9
107.5°	518.1	463.2	401.1	356.2
110°	573.3	513.9	448.7	408.4



TEST NUMBER: P1427951

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	627.0	566.0	499.3	459.0
115°	699.8	632.7	571.4	536.9
117.5°	770.0	701.0	636.2	609.0
120°	813.0	743.9	680.7	659.6
122.5°	848.2	780.8	722.1	713.3
125°	901.2	832.1	782.3	793.8
127.5°	944.1	880.8	849.4	875.1
130°	970.2	914.6	895.4	931.8
132.5°	993.2	949.9	941.4	991.7
135°	1027.7	1002.8	1010.5	1079.5
137.5°	1068.7	1059.2	1084.8	1171.9
140°	1094.8	1100.6	1137.0	1234.8
142.5°	1130.1	1143.5	1190.7	1294.6
145°	1184.9	1213.7	1275.0	1378.6
147.5°	1247.1	1284.3	1360.2	1466.4
150°	1288.5	1336.4	1416.9	1518.6
152.5°	1336.0	1385.5	1466.0	1569.2
155°	1409.3	1464.9	1549.2	1637.4
157.5°	1484.0	1540.8	1621.3	1698.4
160°	1530.1	1591.4	1664.3	1735.2
162.5°	1582.2	1639.0	1702.6	1765.9
165°	1658.5	1704.5	1756.3	1810.0
167.5°	1722.6	1760.9	1801.6	1843.4
170°	1764.0	1794.7	1829.2	1861.8
172.5°	1799.3	1823.8	1849.1	1877.1
175°	1846.4	1859.8	1875.2	1892.4
177.5°	1882.9	1887.5	1892.1	1899.7
180°	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1427951
 CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L830-UNV-STD-W-WM-4

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	19.25	20.08	20.22	21.07	22.37	18.07	18.91	19.05	19.90	21.20
	3H	21.42	22.17	22.41	23.17	24.49	19.12	19.87	20.11	20.87	22.19
	4H	22.23	22.94	23.23	23.94	25.27	19.37	20.07	20.37	21.08	22.41
	6H	22.70	23.35	23.71	24.35	25.70	19.51	20.16	20.52	21.16	22.51
	8H	22.85	23.47	23.87	24.49	25.83	19.56	20.18	20.58	21.21	22.55
	12H	22.91	23.50	23.93	24.51	25.88	19.57	20.16	20.60	21.18	22.54
4H	2H	19.68	20.39	20.69	21.39	22.72	18.76	19.46	19.76	20.46	21.80
	3H	21.93	22.52	22.94	23.55	24.89	19.98	20.57	21.00	21.60	22.95
	4H	22.80	23.34	23.82	24.36	25.73	20.27	20.81	21.30	21.83	23.20
	6H	23.36	23.82	24.39	24.87	26.23	20.47	20.93	21.50	21.98	23.34
	8H	23.56	23.99	24.59	25.03	26.41	20.56	20.99	21.59	22.03	23.41
	12H	23.64	24.03	24.70	25.09	26.47	20.58	20.97	21.64	22.03	23.41
8H	4H	22.82	23.25	23.86	24.29	25.67	20.50	20.93	21.54	21.97	23.35
	6H	23.45	23.81	24.51	24.89	26.26	20.77	21.12	21.83	22.20	23.58
	8H	23.71	24.02	24.78	25.09	26.49	20.91	21.23	21.98	22.29	23.69
	12H	23.84	24.12	24.91	25.18	26.61	20.98	21.25	22.05	22.31	23.75
12H	4H	22.77	23.16	23.82	24.22	25.60	20.50	20.89	21.55	21.94	23.32
	6H	23.42	23.74	24.49	24.80	26.20	20.80	21.12	21.87	22.18	23.58
	8H	23.70	23.97	24.77	25.03	26.47	20.96	21.24	22.03	22.30	23.74