

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: P1427952

Luminaire Tested: SQ2W-PH1-K-125U-100D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427952
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-L835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

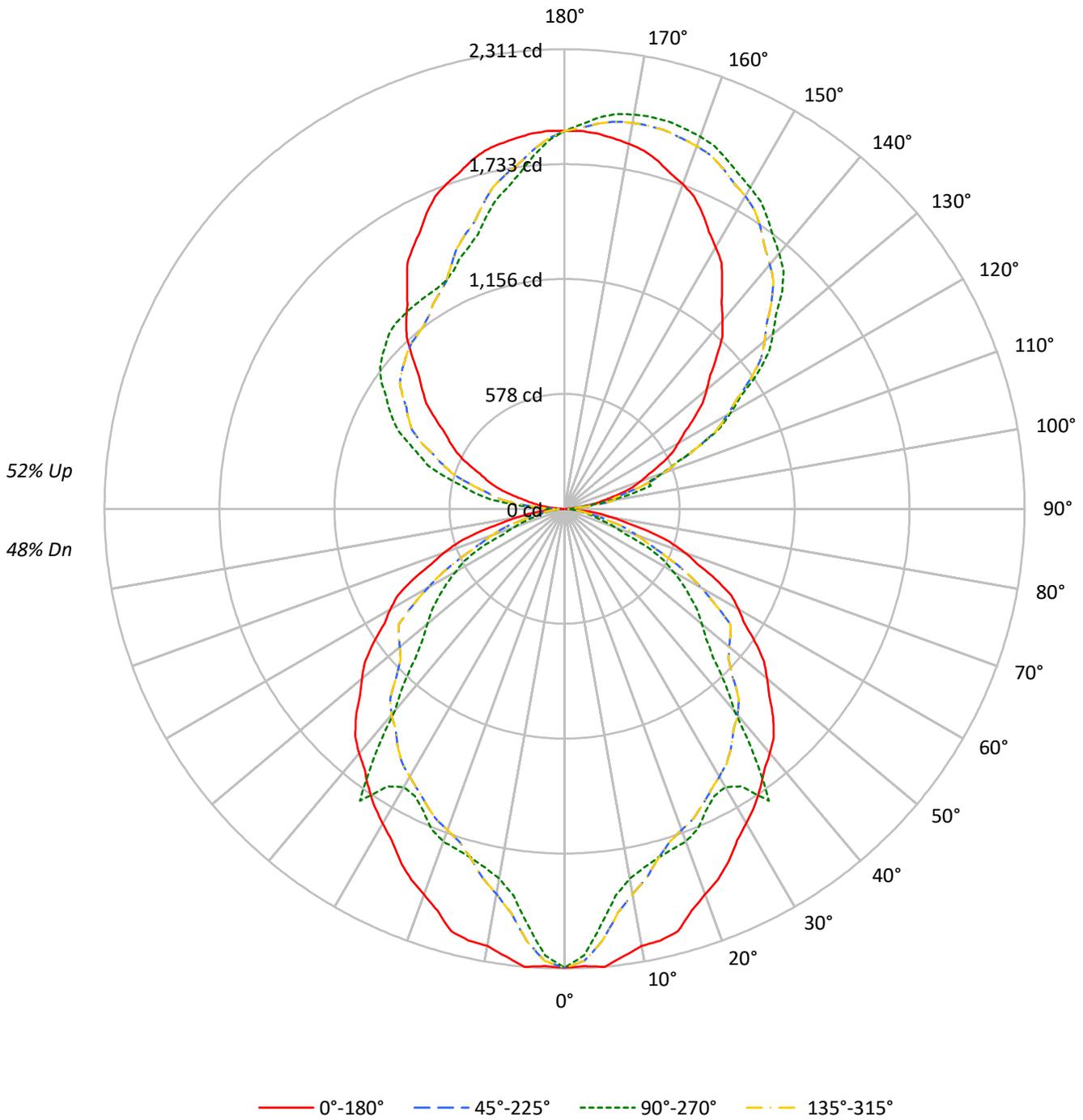
Lumens per Lamp: N/A
Luminaire Lumens: 10655.9 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	37246	37246	37246	37246
5°	37460	34045	37460	34045
10°	36596	30946	36596	30946
15°	36762	30341	36762	30341
20°	35449	30585	35449	30585
25°	34801	29873	34801	29873
30°	34046	30118	34046	30118
35°	33787	35303	33787	35303
40°	33817	27988	33817	27988
45°	33830	24107	33830	24107
50°	33354	22604	33354	22604
55°	32931	21686	32931	21686
60°	32604	20340	32604	20340
65°	32034	17692	32034	17692
70°	30255	12642	30255	12642
75°	26974	9582	26974	9582
80°	22045	8982	22045	8982
85°	13820	6095	13820	6095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33830 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	1.9
10°-20°	533.9	5.0
20°-30°	782.8	7.3
30°-40°	947.9	8.9
40°-50°	932.1	8.7
50°-60°	810.8	7.6
60°-70°	563.9	5.3
70°-80°	267.4	2.5
80°-90°	66.8	0.6
90°-100°	151.2	1.4
100°-110°	440.9	4.1
110°-120°	719.6	6.8
120°-130°	913.1	8.6
130°-140°	977.1	9.2
140°-150°	912.4	8.6
150°-160°	750.8	7.0
160°-170°	503.5	4.7
170°-180°	178.8	1.7
0°-30°	1519.7	14.3
0°-40°	2467.6	23.2
0°-60°	4210.4	39.5
0°-90°	5108.5	47.9
90°-120°	1311.8	12.3
90°-150°	4114.3	38.6
90°-180°	5547.0	52.1
0°-180°	10655.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2307	2307	2307	2307	2307	
5°	2311	2101	2311	2101	2311	217
15°	2199	1815	2199	1815	2199	613
25°	1954	1677	1954	1677	1954	898
35°	1714	1791	1714	1791	1714	1074
45°	1482	1056	1482	1056	1482	1139
55°	1170	770	1170	770	1170	1045
65°	838	463	838	463	838	824
75°	432	154	432	154	432	458
85°	75	33	75	33	75	100
90°	6	42	6	82	6	7
95°	60	44	60	259	60	72
105°	280	449	280	618	280	298
115°	537	745	537	917	537	530
125°	794	1180	794	1125	794	711
135°	1080	1545	1080	1246	1080	835
145°	1380	1781	1380	1272	1380	863
155°	1639	1934	1639	1320	1639	753
165°	1812	2017	1812	1520	1812	510
175°	1894	1975	1894	1783	1894	180
180°	1900	1900	1900	1900	1900	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2301.6	2312.5	2323.5	2308.0	2283.9	2267.1	2257.7	2250.3	2248.7	2247.2	2248.7
5°	2311.3	2310.3	2309.3	2263.7	2203.2	2157.9	2127.6	2104.5	2102.5	2100.6	2102.5
7.5°	2269.1	2238.9	2208.6	2147.4	2075.8	2023.3	1989.9	1964.5	1963.0	1961.4	1963.0
10°	2232.2	2186.4	2140.5	2071.3	1994.2	1940.6	1910.3	1887.6	1887.6	1887.6	1887.6
12.5°	2223.5	2151.1	2078.7	2002.8	1925.7	1876.0	1853.5	1837.9	1842.6	1847.3	1842.6
15°	2199.3	2090.1	1980.8	1903.7	1837.4	1801.3	1795.5	1793.7	1804.5	1815.2	1804.5
17.5°	2119.4	2001.8	1884.1	1816.4	1765.3	1745.9	1758.4	1770.9	1783.4	1795.9	1783.4
20°	2063.2	1947.2	1831.1	1768.4	1723.5	1712.8	1736.2	1756.7	1768.4	1780.1	1768.4
22.5°	2015.8	1898.2	1780.5	1725.1	1690.3	1685.9	1711.6	1732.5	1738.7	1745.0	1738.7
25°	1953.5	1820.8	1688.1	1647.7	1637.9	1644.3	1666.7	1682.8	1679.9	1676.9	1679.9
27.5°	1878.9	1740.3	1601.8	1575.8	1587.3	1599.9	1613.6	1624.3	1626.0	1627.8	1626.0
30°	1826.2	1687.7	1549.1	1528.4	1546.9	1563.0	1576.7	1590.1	1602.8	1615.5	1602.8
32.5°	1775.3	1632.1	1488.8	1474.0	1501.9	1532.0	1564.4	1596.0	1625.0	1654.1	1625.0
35°	1714.2	1565.0	1415.7	1404.0	1438.2	1482.1	1535.7	1599.9	1695.5	1791.1	1695.5
37.5°	1650.2	1490.2	1330.2	1324.9	1371.1	1417.3	1463.6	1505.9	1536.3	1566.7	1536.3
40°	1604.5	1436.7	1268.9	1268.7	1324.3	1381.8	1441.3	1468.4	1398.2	1327.9	1398.2
42.5°	1555.3	1387.5	1219.7	1214.8	1264.2	1327.6	1405.1	1433.5	1314.9	1196.2	1314.9
45°	1481.6	1307.0	1132.3	1126.0	1175.8	1210.9	1231.4	1225.5	1140.6	1055.8	1140.6
47.5°	1394.7	1228.2	1061.8	1060.4	1114.1	1118.0	1072.2	1029.5	996.3	963.1	996.3
50°	1327.9	1170.9	1013.8	1020.6	1082.1	1076.2	1003.1	942.8	921.4	899.9	921.4
52.5°	1263.0	1113.7	964.5	982.6	1056.5	1044.8	947.5	870.9	856.4	842.0	856.4
55°	1169.9	1026.5	883.1	924.1	1026.5	1010.9	877.2	776.3	773.3	770.4	773.3
57.5°	1071.1	935.5	799.9	828.4	911.5	895.1	779.2	693.6	698.6	703.7	698.6
60°	1009.7	878.0	746.3	749.9	798.7	783.1	703.1	641.7	635.8	629.9	635.8
62.5°	944.7	819.2	693.8	675.6	693.2	674.8	620.6	578.4	572.6	566.7	572.6
65°	838.5	724.3	610.2	575.8	568.0	541.7	496.8	463.1	463.1	463.1	463.1
67.5°	721.7	622.2	522.7	484.2	466.1	439.9	405.8	374.3	350.9	327.5	350.9
70°	640.9	553.1	465.3	425.1	400.7	369.5	331.4	299.0	283.4	267.8	283.4
72.5°	554.9	479.6	404.3	363.0	333.2	302.8	271.7	244.0	226.0	208.1	226.0
75°	432.4	371.9	311.4	271.4	238.3	207.5	179.3	157.5	155.6	153.6	155.6
77.5°	312.6	268.5	224.4	192.0	163.5	142.1	127.9	117.3	117.5	117.6	117.5
80°	237.1	203.9	170.7	140.5	111.2	96.1	95.1	94.6	95.6	96.6	95.6
82.5°	166.8	142.2	117.6	98.3	80.8	72.7	74.0	75.1	75.3	75.5	75.3
85°	74.6	62.9	51.2	46.8	44.9	41.9	38.0	34.9	33.9	32.9	33.9
87.5°	17.0	17.7	18.8	18.4	17.2	16.5	16.5	16.8	17.2	17.2	17.2
90°	5.8	13.4	23.0	30.7	36.5	38.4	38.4	40.3	42.2	42.2	42.2
92.5°	21.1	33.4	33.8	33.8	41.1	44.5	47.6	48.0	49.9	49.9	49.9
95°	59.5	65.2	97.9	96.0	65.2	51.8	44.1	44.1	44.1	44.1	44.1
97.5°	113.6	122.1	127.4	170.8	180.4	174.3	142.0	119.4	106.7	100.9	106.7
100°	161.2	165.0	176.6	178.5	226.5	272.5	249.5	220.7	211.1	205.3	211.1
102.5°	208.8	211.1	228.8	236.8	247.9	274.0	353.9	345.1	338.5	337.4	338.5
105°	280.2	282.1	314.7	330.1	337.8	337.8	335.8	374.2	435.6	449.1	435.6
107.5°	356.6	365.4	403.8	444.8	453.7	456.0	446.0	440.2	437.9	439.5	437.9
110°	408.8	422.2	468.3	520.1	533.5	537.3	533.5	527.8	523.9	523.9	523.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	459.4	479.0	531.2	590.7	613.3	624.9	616.4	612.2	608.4	611.4	608.4
115°	537.3	566.1	635.2	696.6	742.7	748.4	746.5	746.5	744.6	744.6	744.6
117.5°	609.5	655.6	733.1	804.5	857.8	873.2	880.9	878.6	876.3	880.1	876.3
120°	660.2	713.9	802.2	882.8	934.6	957.6	965.3	961.5	965.3	961.5	965.3
122.5°	713.9	779.9	866.7	950.3	1011.4	1037.5	1046.7	1047.4	1048.2	1045.9	1048.2
125°	794.5	875.1	976.8	1063.2	1126.5	1157.2	1164.9	1166.8	1170.6	1180.2	1170.6
127.5°	875.9	967.2	1078.9	1162.2	1227.1	1264.3	1276.2	1280.4	1288.5	1292.7	1288.5
130°	932.7	1036.3	1149.5	1228.2	1291.6	1331.9	1353.0	1358.7	1368.3	1366.4	1368.3
132.5°	992.6	1100.8	1215.6	1297.3	1356.0	1399.4	1417.4	1433.9	1437.4	1440.1	1437.4
135°	1080.5	1197.5	1312.7	1393.3	1448.9	1491.1	1514.2	1529.5	1539.1	1544.9	1539.1
137.5°	1173.0	1296.5	1407.1	1478.9	1534.9	1571.4	1597.5	1613.6	1623.6	1628.2	1623.6
140°	1235.9	1354.9	1462.4	1537.2	1587.1	1623.6	1646.6	1665.8	1677.3	1677.3	1677.3
142.5°	1295.8	1413.2	1517.6	1592.5	1636.2	1669.6	1694.2	1708.8	1721.8	1721.8	1721.8
145°	1379.8	1496.9	1592.8	1667.7	1704.2	1734.9	1761.7	1773.2	1780.9	1780.9	1780.9
147.5°	1467.7	1571.4	1658.9	1730.6	1761.3	1797.4	1818.5	1827.7	1837.3	1833.1	1837.3
150°	1519.9	1615.9	1700.3	1767.5	1798.2	1832.7	1853.8	1861.5	1871.1	1865.4	1871.1
152.5°	1570.6	1661.9	1738.7	1801.3	1827.4	1861.9	1886.1	1893.8	1900.3	1896.1	1900.3
155°	1638.9	1719.5	1790.5	1848.1	1871.1	1903.7	1926.8	1936.4	1944.0	1934.4	1944.0
157.5°	1699.9	1769.4	1831.2	1884.2	1908.7	1936.8	1958.2	1970.1	1977.8	1973.6	1977.8
160°	1736.8	1800.1	1855.8	1905.7	1928.7	1953.6	1976.7	1990.1	1997.8	1992.0	1997.8
162.5°	1767.5	1824.7	1877.3	1922.5	1942.5	1964.4	1992.0	2003.9	2011.6	2004.3	2011.6
165°	1811.6	1857.7	1903.7	1942.1	1959.4	1976.7	2005.5	2018.9	2024.6	2017.0	2024.6
167.5°	1845.0	1880.3	1917.6	1950.6	1963.2	1980.1	2008.9	2020.0	2027.3	2017.7	2027.3
170°	1863.4	1894.1	1926.8	1953.6	1963.2	1978.6	2007.4	2017.0	2022.7	2013.1	2022.7
172.5°	1878.8	1901.8	1928.3	1952.1	1957.1	1969.4	1996.6	2006.2	2010.4	2002.4	2010.4
175°	1894.1	1907.6	1926.8	1942.1	1940.2	1947.9	1970.9	1978.6	1986.3	1974.7	1986.3
177.5°	1901.4	1907.6	1913.7	1922.9	1916.8	1916.8	1933.7	1938.3	1939.8	1933.7	1939.8
180°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2250.3	2257.7	2267.1	2283.9	2308.0	2323.5	2312.5	2301.6	2312.5	2323.5	2308.0
5°	2104.5	2127.6	2157.9	2203.2	2263.7	2309.3	2310.3	2311.3	2310.3	2309.3	2263.7
7.5°	1964.5	1989.9	2023.3	2075.8	2147.4	2208.6	2238.9	2269.1	2238.9	2208.6	2147.4
10°	1887.6	1910.3	1940.6	1994.2	2071.3	2140.5	2186.4	2232.2	2186.4	2140.5	2071.3
12.5°	1837.9	1853.5	1876.0	1925.7	2002.8	2078.7	2151.1	2223.5	2151.1	2078.7	2002.8
15°	1793.7	1795.5	1801.3	1837.4	1903.7	1980.8	2090.1	2199.3	2090.1	1980.8	1903.7
17.5°	1770.9	1758.4	1745.9	1765.3	1816.4	1884.1	2001.8	2119.4	2001.8	1884.1	1816.4
20°	1756.7	1736.2	1712.8	1723.5	1768.4	1831.1	1947.2	2063.2	1947.2	1831.1	1768.4
22.5°	1732.5	1711.6	1685.9	1690.3	1725.1	1780.5	1898.2	2015.8	1898.2	1780.5	1725.1
25°	1682.8	1666.7	1644.3	1637.9	1647.7	1688.1	1820.8	1953.5	1820.8	1688.1	1647.7
27.5°	1624.3	1613.6	1599.9	1587.3	1575.8	1601.8	1740.3	1878.9	1740.3	1601.8	1575.8
30°	1590.1	1576.7	1563.0	1546.9	1528.4	1549.1	1687.7	1826.2	1687.7	1549.1	1528.4
32.5°	1596.0	1564.4	1532.0	1501.9	1474.0	1488.8	1632.1	1775.3	1632.1	1488.8	1474.0
35°	1599.9	1535.7	1482.1	1438.2	1404.0	1415.7	1565.0	1714.2	1565.0	1415.7	1404.0
37.5°	1505.9	1463.6	1417.3	1371.1	1324.9	1330.2	1490.2	1650.2	1490.2	1330.2	1324.9
40°	1468.4	1441.3	1381.8	1324.3	1268.7	1268.9	1436.7	1604.5	1436.7	1268.9	1268.7
42.5°	1433.5	1405.1	1327.6	1264.2	1214.8	1219.7	1387.5	1555.3	1387.5	1219.7	1214.8
45°	1225.5	1231.4	1210.9	1175.8	1126.0	1132.3	1307.0	1481.6	1307.0	1132.3	1126.0
47.5°	1029.5	1072.2	1118.0	1114.1	1060.4	1061.8	1228.2	1394.7	1228.2	1061.8	1060.4
50°	942.8	1003.1	1076.2	1082.1	1020.6	1013.8	1170.9	1327.9	1170.9	1013.8	1020.6
52.5°	870.9	947.5	1044.8	1056.5	982.6	964.5	1113.7	1263.0	1113.7	964.5	982.6
55°	776.3	877.2	1010.9	1026.5	924.1	883.1	1026.5	1169.9	1026.5	883.1	924.1
57.5°	693.6	779.2	895.1	911.5	828.4	799.9	935.5	1071.1	935.5	799.9	828.4
60°	641.7	703.1	783.1	798.7	749.9	746.3	878.0	1009.7	878.0	746.3	749.9
62.5°	578.4	620.6	674.8	693.2	675.6	693.8	819.2	944.7	819.2	693.8	675.6
65°	463.1	496.8	541.7	568.0	575.8	610.2	724.3	838.5	724.3	610.2	575.8
67.5°	374.3	405.8	439.9	466.1	484.2	522.7	622.2	721.7	622.2	522.7	484.2
70°	299.0	331.4	369.5	400.7	425.1	465.3	553.1	640.9	553.1	465.3	425.1
72.5°	244.0	271.7	302.8	333.2	363.0	404.3	479.6	554.9	479.6	404.3	363.0
75°	157.5	179.3	207.5	238.3	271.4	311.4	371.9	432.4	371.9	311.4	271.4
77.5°	117.3	127.9	142.1	163.5	192.0	224.4	268.5	312.6	268.5	224.4	192.0
80°	94.6	95.1	96.1	111.2	140.5	170.7	203.9	237.1	203.9	170.7	140.5
82.5°	75.1	74.0	72.7	80.8	98.3	117.6	142.2	166.8	142.2	117.6	98.3
85°	34.9	38.0	41.9	44.9	46.8	51.2	62.9	74.6	62.9	51.2	46.8
87.5°	16.8	16.5	16.5	17.2	18.4	18.8	17.7	17.0	17.7	18.5	19.2
90°	40.3	38.4	38.4	36.5	30.7	23.0	13.4	5.8	13.4	21.1	34.5
92.5°	48.0	47.6	44.5	41.1	33.8	33.8	33.4	21.1	36.5	51.8	74.5
95°	44.1	44.1	51.8	65.2	96.0	97.9	65.2	59.5	84.4	119.0	149.7
97.5°	119.4	142.0	174.3	180.4	170.8	127.4	122.1	113.6	154.7	188.8	238.4
100°	220.7	249.5	272.5	226.5	178.5	176.6	165.0	161.2	205.3	238.0	285.9
102.5°	345.1	353.9	274.0	247.9	236.8	228.8	211.1	208.8	252.9	297.8	338.1
105°	374.2	335.8	337.8	337.8	330.1	314.7	282.1	280.2	330.1	381.9	431.8
107.5°	440.2	446.0	456.0	453.7	444.8	403.8	365.4	356.6	401.5	463.7	518.5
110°	527.8	533.5	537.3	533.5	520.1	468.3	422.2	408.8	449.1	514.3	573.8



TEST NUMBER: P1427952

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L835-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	612.2	616.4	624.9	613.3	590.7	531.2	479.0	459.4	499.7	566.5	627.5
115°	746.5	746.5	748.4	742.7	696.6	635.2	566.1	537.3	571.9	633.3	700.5
117.5°	878.6	880.9	873.2	857.8	804.5	733.1	655.6	609.5	636.8	701.6	770.7
120°	961.5	965.3	957.6	934.6	882.8	802.2	713.9	660.2	681.3	744.6	813.7
122.5°	1047.4	1046.7	1037.5	1011.4	950.3	866.7	779.9	713.9	722.7	781.5	849.0
125°	1166.8	1164.9	1157.2	1126.5	1063.2	976.8	875.1	794.5	783.0	832.9	902.0
127.5°	1280.4	1276.2	1264.3	1227.1	1162.2	1078.9	967.2	875.9	850.2	881.6	945.0
130°	1358.7	1353.0	1331.9	1291.6	1228.2	1149.5	1036.3	932.7	896.2	915.4	971.1
132.5°	1433.9	1417.4	1399.4	1356.0	1297.3	1215.6	1100.8	992.6	942.3	950.7	994.1
135°	1529.5	1514.2	1491.1	1448.9	1393.3	1312.7	1197.5	1080.5	1011.4	1003.7	1028.6
137.5°	1613.6	1597.5	1571.4	1534.9	1478.9	1407.1	1296.5	1173.0	1085.8	1060.1	1069.7
140°	1665.8	1646.6	1623.6	1587.1	1537.2	1462.4	1354.9	1235.9	1138.0	1101.6	1095.8
142.5°	1708.8	1694.2	1669.6	1636.2	1592.5	1517.6	1413.2	1295.8	1191.8	1144.5	1131.1
145°	1773.2	1761.7	1734.9	1704.2	1667.7	1592.8	1496.9	1379.8	1276.2	1214.8	1186.0
147.5°	1827.7	1818.5	1797.4	1761.3	1730.6	1658.9	1571.4	1467.7	1361.4	1285.4	1248.2
150°	1861.5	1853.8	1832.7	1798.2	1767.5	1700.3	1615.9	1519.9	1418.2	1337.6	1289.6
152.5°	1893.8	1886.1	1861.9	1827.4	1801.3	1738.7	1661.9	1570.6	1467.3	1386.7	1337.2
155°	1936.4	1926.8	1903.7	1871.1	1848.1	1790.5	1719.5	1638.9	1550.6	1466.2	1410.5
157.5°	1970.1	1958.2	1936.8	1908.7	1884.2	1831.2	1769.4	1699.9	1622.8	1542.2	1485.4
160°	1990.1	1976.7	1953.6	1928.7	1905.7	1855.8	1800.1	1736.8	1665.8	1592.8	1531.4
162.5°	2003.9	1992.0	1964.4	1942.5	1922.5	1877.3	1824.7	1767.5	1704.2	1640.4	1583.6
165°	2018.9	2005.5	1976.7	1959.4	1942.1	1903.7	1857.7	1811.6	1757.9	1706.1	1660.0
167.5°	2020.0	2008.9	1980.1	1963.2	1950.6	1917.6	1880.3	1845.0	1803.2	1762.5	1724.1
170°	2017.0	2007.4	1978.6	1963.2	1953.6	1926.8	1894.1	1863.4	1830.8	1796.3	1765.6
172.5°	2006.2	1996.6	1969.4	1957.1	1952.1	1928.3	1901.8	1878.8	1850.8	1825.4	1800.9
175°	1978.6	1970.9	1947.9	1940.2	1942.1	1926.8	1907.6	1894.1	1876.9	1861.5	1848.1
177.5°	1938.3	1933.7	1916.8	1916.8	1922.9	1913.7	1907.6	1901.4	1893.8	1889.2	1884.6
180°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9



TEST NUMBER: P1427952

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L835-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2283.9	2267.1	2257.7	2250.3	2248.7	2247.2	2248.7	2250.3	2257.7	2267.1	2283.9
5°	2203.2	2157.9	2127.6	2104.5	2102.5	2100.6	2102.5	2104.5	2127.6	2157.9	2203.2
7.5°	2075.8	2023.3	1989.9	1964.5	1963.0	1961.4	1963.0	1964.5	1989.9	2023.3	2075.8
10°	1994.2	1940.6	1910.3	1887.6	1887.6	1887.6	1887.6	1887.6	1910.3	1940.6	1994.2
12.5°	1925.7	1876.0	1853.5	1837.9	1842.6	1847.3	1842.6	1837.9	1853.5	1876.0	1925.7
15°	1837.4	1801.3	1795.5	1793.7	1804.5	1815.2	1804.5	1793.7	1795.5	1801.3	1837.4
17.5°	1765.3	1745.9	1758.4	1770.9	1783.4	1795.9	1783.4	1770.9	1758.4	1745.9	1765.3
20°	1723.5	1712.8	1736.2	1756.7	1768.4	1780.1	1768.4	1756.7	1736.2	1712.8	1723.5
22.5°	1690.3	1685.9	1711.6	1732.5	1738.7	1745.0	1738.7	1732.5	1711.6	1685.9	1690.3
25°	1637.9	1644.3	1666.7	1682.8	1679.9	1676.9	1679.9	1682.8	1666.7	1644.3	1637.9
27.5°	1587.3	1599.9	1613.6	1624.3	1626.0	1627.8	1626.0	1624.3	1613.6	1599.9	1587.3
30°	1546.9	1563.0	1576.7	1590.1	1602.8	1615.5	1602.8	1590.1	1576.7	1563.0	1546.9
32.5°	1501.9	1532.0	1564.4	1596.0	1625.0	1654.1	1625.0	1596.0	1564.4	1532.0	1501.9
35°	1438.2	1482.1	1535.7	1599.9	1695.5	1791.1	1695.5	1599.9	1535.7	1482.1	1438.2
37.5°	1371.1	1417.3	1463.6	1505.9	1536.3	1566.7	1536.3	1505.9	1463.6	1417.3	1371.1
40°	1324.3	1381.8	1441.3	1468.4	1398.2	1327.9	1398.2	1468.4	1441.3	1381.8	1324.3
42.5°	1264.2	1327.6	1405.1	1433.5	1314.9	1196.2	1314.9	1433.5	1405.1	1327.6	1264.2
45°	1175.8	1210.9	1231.4	1225.5	1140.6	1055.8	1140.6	1225.5	1231.4	1210.9	1175.8
47.5°	1114.1	1118.0	1072.2	1029.5	996.3	963.1	996.3	1029.5	1072.2	1118.0	1114.1
50°	1082.1	1076.2	1003.1	942.8	921.4	899.9	921.4	942.8	1003.1	1076.2	1082.1
52.5°	1056.5	1044.8	947.5	870.9	856.4	842.0	856.4	870.9	947.5	1044.8	1056.5
55°	1026.5	1010.9	877.2	776.3	773.3	770.4	773.3	776.3	877.2	1010.9	1026.5
57.5°	911.5	895.1	779.2	693.6	698.6	703.7	698.6	693.6	779.2	895.1	911.5
60°	798.7	783.1	703.1	641.7	635.8	629.9	635.8	641.7	703.1	783.1	798.7
62.5°	693.2	674.8	620.6	578.4	572.6	566.7	572.6	578.4	620.6	674.8	693.2
65°	568.0	541.7	496.8	463.1	463.1	463.1	463.1	496.8	541.7	568.0	568.0
67.5°	466.1	439.9	405.8	374.3	350.9	327.5	350.9	374.3	405.8	439.9	466.1
70°	400.7	369.5	331.4	299.0	283.4	267.8	283.4	299.0	331.4	369.5	400.7
72.5°	333.2	302.8	271.7	244.0	226.0	208.1	226.0	244.0	271.7	302.8	333.2
75°	238.3	207.5	179.3	157.5	155.6	153.6	155.6	157.5	179.3	207.5	238.3
77.5°	163.5	142.1	127.9	117.3	117.5	117.6	117.5	117.3	127.9	142.1	163.5
80°	111.2	96.1	95.1	94.6	95.6	96.6	95.6	94.6	95.1	96.1	111.2
82.5°	80.8	72.7	74.0	75.1	75.3	75.5	75.3	75.1	74.0	72.7	80.8
85°	44.9	41.9	38.0	34.9	33.9	32.9	33.9	34.9	38.0	41.9	44.9
87.5°	18.8	20.3	23.0	24.5	26.1	25.3	26.1	24.5	23.0	20.3	18.8
90°	44.1	57.6	71.0	78.7	86.4	82.5	86.4	78.7	71.0	57.6	44.1
92.5°	88.7	111.3	127.8	141.6	147.8	147.0	147.8	141.6	127.8	111.3	88.7
95°	178.5	205.3	232.2	251.4	262.9	259.1	262.9	251.4	232.2	205.3	178.5
97.5°	275.2	311.3	341.2	359.3	370.8	378.4	370.8	359.3	341.2	311.3	275.2
100°	339.7	374.2	408.8	429.9	449.1	456.7	449.1	408.8	374.2	339.7	339.7
102.5°	391.9	437.2	474.8	497.4	513.5	521.2	513.5	474.8	437.2	391.9	391.9
105°	477.9	525.8	566.1	594.9	612.2	617.9	612.2	594.9	566.1	525.8	477.9
107.5°	563.8	613.3	650.6	682.4	703.5	715.8	703.5	682.4	650.6	613.3	563.8
110°	631.4	671.7	712.0	740.8	761.9	769.6	761.9	740.8	712.0	671.7	631.4



TEST NUMBER: P1427952

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L835-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	688.2	733.1	773.4	802.2	826.4	837.1	826.4	802.2	773.4	733.1	688.2
115°	767.6	827.1	863.6	890.5	907.7	917.3	907.7	890.5	863.6	827.1	767.6
117.5°	833.7	895.8	935.8	956.5	964.5	971.4	964.5	956.5	935.8	895.8	833.7
120°	875.1	932.7	978.7	1005.6	1015.2	1019.0	1015.2	1005.6	978.7	932.7	875.1
122.5°	913.5	968.0	1012.5	1045.5	1061.3	1065.1	1061.3	1045.5	1012.5	968.0	913.5
125°	967.2	1019.0	1065.1	1097.7	1115.0	1124.6	1115.0	1097.7	1065.1	1019.0	967.2
127.5°	1014.1	1070.1	1112.3	1141.9	1158.7	1166.4	1158.7	1141.9	1112.3	1070.1	1014.1
130°	1040.1	1097.7	1139.9	1172.6	1187.9	1195.6	1187.9	1172.6	1139.9	1097.7	1040.1
132.5°	1060.1	1120.8	1164.5	1194.1	1210.9	1218.6	1210.9	1194.1	1164.5	1120.8	1060.1
135°	1084.3	1147.6	1193.7	1222.5	1237.8	1245.5	1237.8	1222.5	1193.7	1147.6	1084.3
137.5°	1105.4	1163.0	1210.9	1241.3	1255.1	1260.1	1255.1	1241.3	1210.9	1163.0	1105.4
140°	1120.8	1170.6	1218.6	1247.4	1262.8	1264.7	1262.8	1247.4	1218.6	1170.6	1120.8
142.5°	1140.7	1179.9	1221.7	1250.5	1265.8	1269.3	1265.8	1250.5	1221.7	1179.9	1140.7
145°	1176.4	1199.4	1228.2	1255.1	1268.5	1272.4	1268.5	1255.1	1228.2	1199.4	1176.4
147.5°	1221.3	1228.6	1243.6	1261.2	1274.3	1277.0	1274.3	1261.2	1243.6	1228.6	1221.3
150°	1255.1	1253.2	1258.9	1270.4	1282.0	1280.0	1282.0	1270.4	1258.9	1253.2	1255.1
152.5°	1293.5	1282.3	1282.0	1287.3	1292.7	1292.3	1292.7	1287.3	1282.0	1282.3	1293.5
155°	1358.7	1337.6	1326.1	1322.3	1322.3	1320.3	1322.3	1322.3	1326.1	1337.6	1358.7
157.5°	1430.5	1400.9	1383.7	1374.5	1371.8	1367.5	1371.8	1374.5	1383.7	1400.9	1430.5
160°	1479.6	1447.0	1429.7	1414.4	1408.6	1402.9	1408.6	1414.4	1429.7	1447.0	1479.6
162.5°	1525.7	1494.6	1475.8	1462.0	1456.2	1447.4	1456.2	1462.0	1475.8	1494.6	1525.7
165°	1600.5	1567.9	1546.8	1535.3	1527.6	1519.9	1527.6	1535.3	1546.8	1567.9	1600.5
167.5°	1675.4	1639.7	1625.9	1612.8	1605.5	1591.7	1605.5	1612.8	1625.9	1639.7	1675.4
170°	1721.4	1688.8	1681.1	1669.6	1656.2	1640.8	1656.2	1669.6	1681.1	1688.8	1721.4
172.5°	1761.3	1739.5	1731.8	1720.3	1716.1	1703.8	1716.1	1720.3	1731.8	1739.5	1761.3
175°	1819.3	1802.0	1802.0	1800.1	1794.4	1782.8	1794.4	1800.1	1802.0	1802.0	1819.3
177.5°	1867.7	1858.5	1864.6	1864.6	1863.1	1852.3	1863.1	1864.6	1864.6	1858.5	1867.7
180°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9



TEST NUMBER: P1427952

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L835-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2306.9	2306.9	2306.9	2306.9
2.5°	2308.0	2323.5	2312.5	2301.6
5°	2263.7	2309.3	2310.3	2311.3
7.5°	2147.4	2208.6	2238.9	2269.1
10°	2071.3	2140.5	2186.4	2232.2
12.5°	2002.8	2078.7	2151.1	2223.5
15°	1903.7	1980.8	2090.1	2199.3
17.5°	1816.4	1884.1	2001.8	2119.4
20°	1768.4	1831.1	1947.2	2063.2
22.5°	1725.1	1780.5	1898.2	2015.8
25°	1647.7	1688.1	1820.8	1953.5
27.5°	1575.8	1601.8	1740.3	1878.9
30°	1528.4	1549.1	1687.7	1826.2
32.5°	1474.0	1488.8	1632.1	1775.3
35°	1404.0	1415.7	1565.0	1714.2
37.5°	1324.9	1330.2	1490.2	1650.2
40°	1268.7	1268.9	1436.7	1604.5
42.5°	1214.8	1219.7	1387.5	1555.3
45°	1126.0	1132.3	1307.0	1481.6
47.5°	1060.4	1061.8	1228.2	1394.7
50°	1020.6	1013.8	1170.9	1327.9
52.5°	982.6	964.5	1113.7	1263.0
55°	924.1	883.1	1026.5	1169.9
57.5°	828.4	799.9	935.5	1071.1
60°	749.9	746.3	878.0	1009.7
62.5°	675.6	693.8	819.2	944.7
65°	575.8	610.2	724.3	838.5
67.5°	484.2	522.7	622.2	721.7
70°	425.1	465.3	553.1	640.9
72.5°	363.0	404.3	479.6	554.9
75°	271.4	311.4	371.9	432.4
77.5°	192.0	224.4	268.5	312.6
80°	140.5	170.7	203.9	237.1
82.5°	98.3	117.6	142.2	166.8
85°	46.8	51.2	62.9	74.6
87.5°	19.2	18.5	17.7	17.0
90°	34.5	21.1	13.4	5.8
92.5°	74.5	51.8	36.5	21.1
95°	149.7	119.0	84.4	59.5
97.5°	238.4	188.8	154.7	113.6
100°	285.9	238.0	205.3	161.2
102.5°	338.1	297.8	252.9	208.8
105°	431.8	381.9	330.1	280.2
107.5°	518.5	463.7	401.5	356.6
110°	573.8	514.3	449.1	408.8



TEST NUMBER: P1427952

CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L835-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	627.5	566.5	499.7	459.4
115°	700.5	633.3	571.9	537.3
117.5°	770.7	701.6	636.8	609.5
120°	813.7	744.6	681.3	660.2
122.5°	849.0	781.5	722.7	713.9
125°	902.0	832.9	783.0	794.5
127.5°	945.0	881.6	850.2	875.9
130°	971.1	915.4	896.2	932.7
132.5°	994.1	950.7	942.3	992.6
135°	1028.6	1003.7	1011.4	1080.5
137.5°	1069.7	1060.1	1085.8	1173.0
140°	1095.8	1101.6	1138.0	1235.9
142.5°	1131.1	1144.5	1191.8	1295.8
145°	1186.0	1214.8	1276.2	1379.8
147.5°	1248.2	1285.4	1361.4	1467.7
150°	1289.6	1337.6	1418.2	1519.9
152.5°	1337.2	1386.7	1467.3	1570.6
155°	1410.5	1466.2	1550.6	1638.9
157.5°	1485.4	1542.2	1622.8	1699.9
160°	1531.4	1592.8	1665.8	1736.8
162.5°	1583.6	1640.4	1704.2	1767.5
165°	1660.0	1706.1	1757.9	1811.6
167.5°	1724.1	1762.5	1803.2	1845.0
170°	1765.6	1796.3	1830.8	1863.4
172.5°	1800.9	1825.4	1850.8	1878.8
175°	1848.1	1861.5	1876.9	1894.1
177.5°	1884.6	1889.2	1893.8	1901.4
180°	1899.9	1899.9	1899.9	1899.9



TEST NUMBER: P1427952
 CATALOG NUMBER: SQ2W-PH1-K-125U-100D-L835-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	20.09	20.23	21.07	22.38	18.08	18.91	19.05	19.90	21.20
	3H	21.42	22.17	22.41	23.17	24.49	19.13	19.88	20.11	20.87	22.20
	4H	22.23	22.94	23.23	23.94	25.27	19.37	20.08	20.37	21.08	22.41
	6H	22.70	23.35	23.71	24.36	25.70	19.51	20.16	20.52	21.17	22.51
	8H	22.85	23.47	23.87	24.49	25.83	19.57	20.19	20.58	21.21	22.55
	12H	22.91	23.50	23.93	24.52	25.88	19.58	20.17	20.60	21.18	22.55
4H	2H	19.68	20.39	20.69	21.39	22.72	18.76	19.47	19.77	20.47	21.80
	3H	21.93	22.52	22.95	23.55	24.89	19.99	20.58	21.00	21.61	22.95
	4H	22.80	23.34	23.83	24.36	25.73	20.28	20.82	21.30	21.84	23.21
	6H	23.36	23.82	24.40	24.87	26.23	20.47	20.94	21.51	21.98	23.35
	8H	23.56	23.99	24.60	25.03	26.41	20.56	21.00	21.60	22.03	23.41
	12H	23.65	24.04	24.70	25.09	26.47	20.59	20.98	21.64	22.03	23.41
8H	4H	22.82	23.26	23.86	24.29	25.67	20.50	20.94	21.54	21.97	23.35
	6H	23.45	23.81	24.51	24.89	26.27	20.77	21.13	21.83	22.21	23.58
	8H	23.71	24.03	24.78	25.09	26.49	20.92	21.23	21.98	22.30	23.69
	12H	23.84	24.12	24.91	25.18	26.62	20.98	21.26	22.05	22.32	23.75
12H	4H	22.77	23.16	23.83	24.22	25.60	20.50	20.89	21.55	21.94	23.33
	6H	23.43	23.74	24.49	24.81	26.20	20.81	21.12	21.87	22.18	23.58
	8H	23.70	23.97	24.77	25.03	26.47	20.97	21.24	22.04	22.30	23.74