

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: P1427957

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

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427957
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-125D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

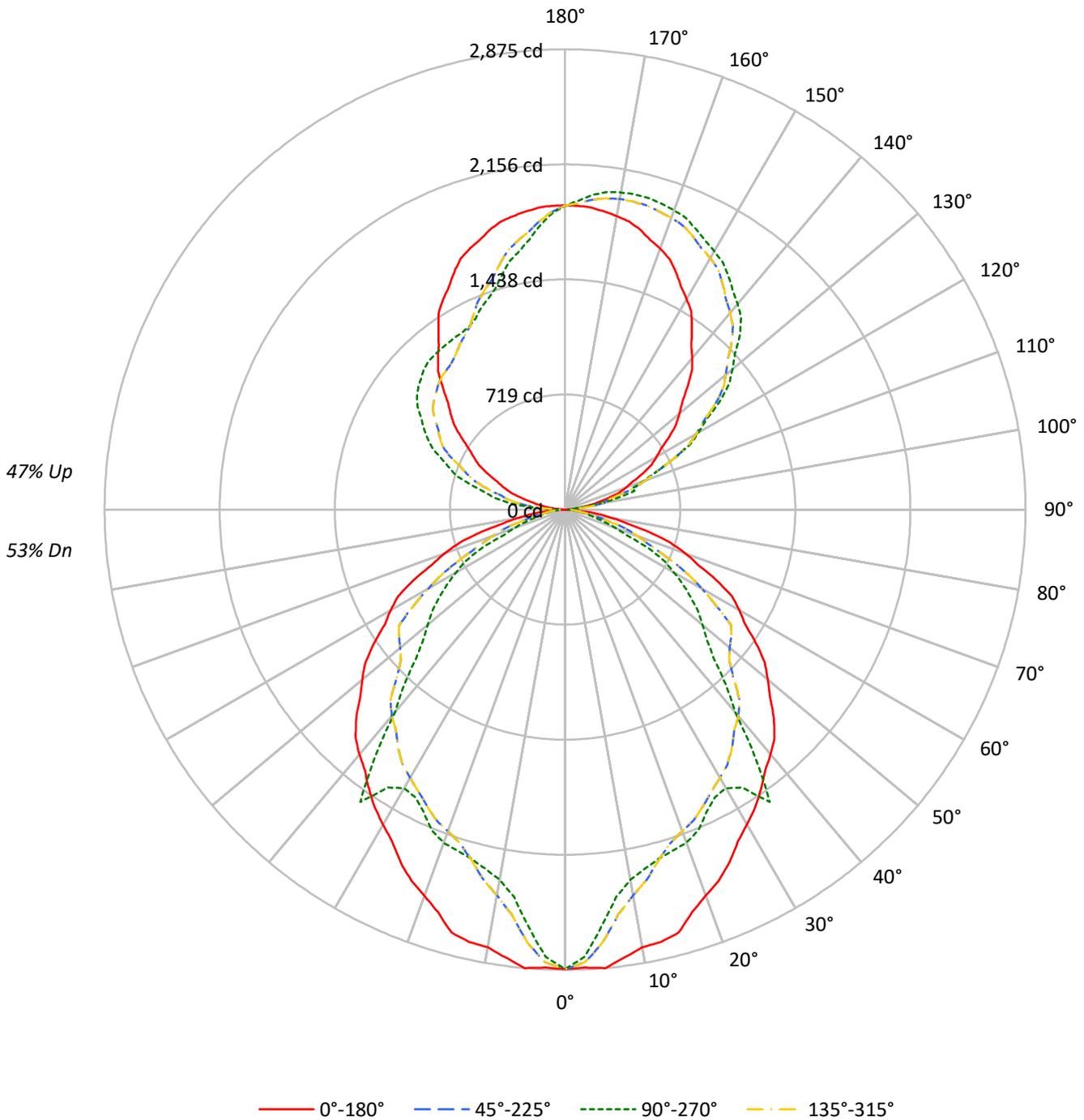
Lumens per Lamp: N/A
Luminaire Lumens: 11895.6 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.2
Input Voltage (V): 120
Input Current (A_{in}): 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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	84	81	75	73	71	63	62	60	53	52	51	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	61	56	58	53	49	50	46	43	41	39	37	33
4	75	65	57	51	70	60	53	48	52	46	42	44	40	37	37	34	32	28
5	69	58	49	43	64	54	46	41	46	41	36	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	23	20	17	15
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	46334	46334	46334	46334
5°	46601	42353	46601	42353
10°	45528	38499	45528	38499
15°	45733	37746	45733	37746
20°	44100	38049	44100	38049
25°	43293	37165	43293	37165
30°	42354	37467	42354	37467
35°	42034	43916	42034	43916
40°	42069	34818	42069	34818
45°	42084	29989	42084	29989
50°	41495	28120	41495	28120
55°	40968	26978	40968	26978
60°	40561	25307	40561	25307
65°	39850	22009	39850	22009
70°	37638	15724	37638	15724
75°	33555	11921	33555	11921
80°	27419	11167	27419	11167
85°	17191	7595	17191	7595

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42084 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	2.1
10°-20°	664.2	5.6
20°-30°	973.8	8.2
30°-40°	1179.2	9.9
40°-50°	1159.5	9.7
50°-60°	1008.6	8.5
60°-70°	701.5	5.9
70°-80°	332.7	2.8
80°-90°	81.2	0.7
90°-100°	151.1	1.3
100°-110°	440.5	3.7
110°-120°	719.0	6.0
120°-130°	912.3	7.7
130°-140°	976.2	8.2
140°-150°	911.5	7.7
150°-160°	750.1	6.3
160°-170°	503.1	4.2
170°-180°	178.6	1.5
0°-30°	1890.6	15.9
0°-40°	3069.7	25.8
0°-60°	5237.9	44.0
0°-90°	6353.3	53.4
90°-120°	1310.6	11.0
90°-150°	4110.6	34.6
90°-180°	5542.0	46.6
0°-180°	11895.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2870	2870	2870	2870	2870	
5°	2875	2613	2875	2613	2875	270
15°	2736	2258	2736	2258	2736	763
25°	2430	2086	2430	2086	2430	1118
35°	2133	2228	2133	2228	2133	1336
45°	1843	1313	1843	1313	1843	1417
55°	1455	958	1455	958	1455	1300
65°	1043	576	1043	576	1043	1025
75°	538	191	538	191	538	570
85°	93	41	93	41	93	125
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°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	2863.3	2876.9	2890.5	2871.3	2841.2	2820.3	2808.7	2799.4	2797.5	2795.6	2797.5
5°	2875.3	2874.1	2872.9	2816.1	2740.9	2684.4	2646.8	2618.0	2615.6	2613.2	2615.6
7.5°	2822.9	2785.2	2747.6	2671.4	2582.3	2517.0	2475.5	2443.9	2442.0	2440.0	2442.0
10°	2777.0	2719.9	2662.9	2576.7	2480.9	2414.1	2376.5	2348.3	2348.3	2348.3	2348.3
12.5°	2766.1	2676.0	2586.0	2491.5	2395.7	2333.8	2305.9	2286.4	2292.2	2298.0	2292.2
15°	2736.0	2600.1	2464.2	2368.3	2285.8	2240.9	2233.6	2231.5	2244.8	2258.2	2244.8
17.5°	2636.6	2490.3	2343.9	2259.6	2196.0	2172.0	2187.5	2203.1	2218.6	2234.1	2218.6
20°	2566.7	2422.3	2277.9	2199.9	2144.1	2130.8	2159.9	2185.4	2199.9	2214.5	2199.9
22.5°	2507.8	2361.4	2215.0	2146.0	2102.8	2097.3	2129.3	2155.3	2163.0	2170.8	2163.0
25°	2430.2	2265.2	2100.1	2049.7	2037.6	2045.5	2073.4	2093.4	2089.8	2086.2	2089.8
27.5°	2337.4	2165.0	1992.7	1960.4	1974.7	1990.3	2007.3	2020.6	2022.8	2025.0	2022.8
30°	2271.8	2099.5	1927.2	1901.4	1924.4	1944.5	1961.5	1978.1	1993.9	2009.7	1993.9
32.5°	2208.5	2030.3	1852.2	1833.7	1868.4	1905.9	1946.2	1985.4	2021.6	2057.8	2021.6
35°	2132.6	1946.9	1761.2	1746.7	1789.1	1843.7	1910.5	1990.3	2109.2	2228.1	2109.2
37.5°	2052.8	1853.8	1654.8	1648.2	1705.7	1763.2	1820.7	1873.3	1911.2	1949.1	1911.2
40°	1996.0	1787.3	1578.6	1578.3	1647.4	1719.0	1793.1	1826.7	1739.4	1652.0	1739.4
42.5°	1934.9	1726.1	1517.4	1511.3	1572.7	1651.6	1747.9	1783.3	1635.7	1488.2	1635.7
45°	1843.1	1625.9	1408.7	1400.8	1462.7	1506.4	1531.8	1524.6	1419.0	1313.4	1419.0
47.5°	1735.0	1528.0	1320.9	1319.2	1386.0	1390.8	1333.8	1280.7	1239.4	1198.2	1239.4
50°	1652.0	1456.6	1261.2	1269.7	1346.2	1338.9	1247.9	1172.9	1146.2	1119.5	1146.2
52.5°	1571.2	1385.5	1199.8	1222.4	1314.4	1299.8	1178.7	1083.4	1065.4	1047.4	1065.4
55°	1455.4	1277.0	1098.6	1149.6	1277.0	1257.6	1091.3	965.7	962.1	958.4	962.1
57.5°	1332.5	1163.8	995.1	1030.5	1133.9	1113.5	969.4	862.8	869.1	875.4	869.1
60°	1256.1	1092.2	928.4	932.9	993.6	974.2	874.7	798.2	791.0	783.7	791.0
62.5°	1175.2	1019.2	863.1	840.5	862.3	839.5	772.0	719.6	712.3	705.0	712.3
65°	1043.1	901.1	759.1	716.3	706.6	673.8	618.0	576.1	576.1	576.1	576.1
67.5°	897.8	774.0	650.2	602.4	579.8	547.3	504.8	465.7	436.5	407.4	436.5
70°	797.3	688.1	578.9	528.8	498.5	459.6	412.3	372.0	352.5	333.1	352.5
72.5°	690.3	596.6	502.9	451.6	414.5	376.6	338.0	303.5	281.2	258.9	281.2
75°	537.9	462.7	387.4	337.7	296.4	258.2	223.0	196.0	193.6	191.1	193.6
77.5°	388.8	334.0	279.1	238.8	203.4	176.8	159.1	145.9	146.1	146.4	146.1
80°	294.9	253.6	212.4	174.8	138.3	119.5	118.3	117.7	118.9	120.1	118.9
82.5°	207.5	176.9	146.4	122.3	100.5	90.4	92.1	93.4	93.7	93.9	93.7
85°	92.8	78.3	63.7	58.3	55.8	52.2	47.3	43.4	42.2	41.0	42.2
87.5°	20.8	21.4	22.3	21.4	19.7	18.6	18.6	19.0	19.4	19.4	19.4
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°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	2799.4	2808.7	2820.3	2841.2	2871.3	2890.5	2876.9	2863.3	2876.9	2890.5	2871.3
5°	2618.0	2646.8	2684.4	2740.9	2816.1	2872.9	2874.1	2875.3	2874.1	2872.9	2816.1
7.5°	2443.9	2475.5	2517.0	2582.3	2671.4	2747.6	2785.2	2822.9	2785.2	2747.6	2671.4
10°	2348.3	2376.5	2414.1	2480.9	2576.7	2662.9	2719.9	2777.0	2719.9	2662.9	2576.7
12.5°	2286.4	2305.9	2333.8	2395.7	2491.5	2586.0	2676.0	2766.1	2676.0	2586.0	2491.5
15°	2231.5	2233.6	2240.9	2285.8	2368.3	2464.2	2600.1	2736.0	2600.1	2464.2	2368.3
17.5°	2203.1	2187.5	2172.0	2196.0	2259.6	2343.9	2490.3	2636.6	2490.3	2343.9	2259.6
20°	2185.4	2159.9	2130.8	2144.1	2199.9	2277.9	2422.3	2566.7	2422.3	2277.9	2199.9
22.5°	2155.3	2129.3	2097.3	2102.8	2146.0	2215.0	2361.4	2507.8	2361.4	2215.0	2146.0
25°	2093.4	2073.4	2045.5	2037.6	2049.7	2100.1	2265.2	2430.2	2265.2	2100.1	2049.7
27.5°	2020.6	2007.3	1990.3	1974.7	1960.4	1992.7	2165.0	2337.4	2165.0	1992.7	1960.4
30°	1978.1	1961.5	1944.5	1924.4	1901.4	1927.2	2099.5	2271.8	2099.5	1927.2	1901.4
32.5°	1985.4	1946.2	1905.9	1868.4	1833.7	1852.2	2030.3	2208.5	2030.3	1852.2	1833.7
35°	1990.3	1910.5	1843.7	1789.1	1746.7	1761.2	1946.9	2132.6	1946.9	1761.2	1746.7
37.5°	1873.3	1820.7	1763.2	1705.7	1648.2	1654.8	1853.8	2052.8	1853.8	1654.8	1648.2
40°	1826.7	1793.1	1719.0	1647.4	1578.3	1578.6	1787.3	1996.0	1787.3	1578.6	1578.3
42.5°	1783.3	1747.9	1651.6	1572.7	1511.3	1517.4	1726.1	1934.9	1726.1	1517.4	1511.3
45°	1524.6	1531.8	1506.4	1462.7	1400.8	1408.7	1625.9	1843.1	1625.9	1408.7	1400.8
47.5°	1280.7	1333.8	1390.8	1386.0	1319.2	1320.9	1528.0	1735.0	1528.0	1320.9	1319.2
50°	1172.9	1247.9	1338.9	1346.2	1269.7	1261.2	1456.6	1652.0	1456.6	1261.2	1269.7
52.5°	1083.4	1178.7	1299.8	1314.4	1222.4	1199.8	1385.5	1571.2	1385.5	1199.8	1222.4
55°	965.7	1091.3	1257.6	1277.0	1149.6	1098.6	1277.0	1455.4	1277.0	1098.6	1149.6
57.5°	862.8	969.4	1113.5	1133.9	1030.5	995.1	1163.8	1332.5	1163.8	995.1	1030.5
60°	798.2	874.7	974.2	993.6	932.9	928.4	1092.2	1256.1	1092.2	928.4	932.9
62.5°	719.6	772.0	839.5	862.3	840.5	863.1	1019.2	1175.2	1019.2	863.1	840.5
65°	576.1	618.0	673.8	706.6	716.3	759.1	901.1	1043.1	901.1	759.1	716.3
67.5°	465.7	504.8	547.3	579.8	602.4	650.2	774.0	897.8	774.0	650.2	602.4
70°	372.0	412.3	459.6	498.5	528.8	578.9	688.1	797.3	688.1	578.9	528.8
72.5°	303.5	338.0	376.6	414.5	451.6	502.9	596.6	690.3	596.6	502.9	451.6
75°	196.0	223.0	258.2	296.4	337.7	387.4	462.7	537.9	462.7	387.4	337.7
77.5°	145.9	159.1	176.8	203.4	238.8	279.1	334.0	388.8	334.0	279.1	238.8
80°	117.7	118.3	119.5	138.3	174.8	212.4	253.6	294.9	253.6	212.4	174.8
82.5°	93.4	92.1	90.4	100.5	122.3	146.4	176.9	207.5	176.9	146.4	122.3
85°	43.4	47.3	52.2	55.8	58.3	63.7	78.3	92.8	78.3	63.7	58.3
87.5°	19.0	18.6	18.6	19.7	21.4	22.3	21.4	20.8	21.4	21.9	22.2
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: P1427957

CATALOG NUMBER: SQ2W-PH1-K-125U-125D-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



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	2841.2	2820.3	2808.7	2799.4	2797.5	2795.6	2797.5	2799.4	2808.7	2820.3	2841.2
5°	2740.9	2684.4	2646.8	2618.0	2615.6	2613.2	2615.6	2618.0	2646.8	2684.4	2740.9
7.5°	2582.3	2517.0	2475.5	2443.9	2442.0	2440.0	2442.0	2443.9	2475.5	2517.0	2582.3
10°	2480.9	2414.1	2376.5	2348.3	2348.3	2348.3	2348.3	2348.3	2376.5	2414.1	2480.9
12.5°	2395.7	2333.8	2305.9	2286.4	2292.2	2298.0	2292.2	2286.4	2305.9	2333.8	2395.7
15°	2285.8	2240.9	2233.6	2231.5	2244.8	2258.2	2244.8	2231.5	2233.6	2240.9	2285.8
17.5°	2196.0	2172.0	2187.5	2203.1	2218.6	2234.1	2218.6	2203.1	2187.5	2172.0	2196.0
20°	2144.1	2130.8	2159.9	2185.4	2199.9	2214.5	2199.9	2185.4	2159.9	2130.8	2144.1
22.5°	2102.8	2097.3	2129.3	2155.3	2163.0	2170.8	2163.0	2155.3	2129.3	2097.3	2102.8
25°	2037.6	2045.5	2073.4	2093.4	2089.8	2086.2	2089.8	2093.4	2073.4	2045.5	2037.6
27.5°	1974.7	1990.3	2007.3	2020.6	2022.8	2025.0	2022.8	2020.6	2007.3	1990.3	1974.7
30°	1924.4	1944.5	1961.5	1978.1	1993.9	2009.7	1993.9	1978.1	1961.5	1944.5	1924.4
32.5°	1868.4	1905.9	1946.2	1985.4	2021.6	2057.8	2021.6	1985.4	1946.2	1905.9	1868.4
35°	1789.1	1843.7	1910.5	1990.3	2109.2	2228.1	2109.2	1990.3	1910.5	1843.7	1789.1
37.5°	1705.7	1763.2	1820.7	1873.3	1911.2	1949.1	1911.2	1873.3	1820.7	1763.2	1705.7
40°	1647.4	1719.0	1793.1	1826.7	1739.4	1652.0	1739.4	1826.7	1793.1	1719.0	1647.4
42.5°	1572.7	1651.6	1747.9	1783.3	1635.7	1488.2	1635.7	1783.3	1747.9	1651.6	1572.7
45°	1462.7	1506.4	1531.8	1524.6	1419.0	1313.4	1419.0	1524.6	1531.8	1506.4	1462.7
47.5°	1386.0	1390.8	1333.8	1280.7	1239.4	1198.2	1239.4	1280.7	1333.8	1390.8	1386.0
50°	1346.2	1338.9	1247.9	1172.9	1146.2	1119.5	1146.2	1172.9	1247.9	1338.9	1346.2
52.5°	1314.4	1299.8	1178.7	1083.4	1065.4	1047.4	1065.4	1083.4	1178.7	1299.8	1314.4
55°	1277.0	1257.6	1091.3	965.7	962.1	958.4	962.1	965.7	1091.3	1257.6	1277.0
57.5°	1133.9	1113.5	969.4	862.8	869.1	875.4	869.1	862.8	969.4	1113.5	1133.9
60°	993.6	974.2	874.7	798.2	791.0	783.7	791.0	798.2	874.7	974.2	993.6
62.5°	862.3	839.5	772.0	719.6	712.3	705.0	712.3	719.6	772.0	839.5	862.3
65°	706.6	673.8	618.0	576.1	576.1	576.1	576.1	618.0	673.8	706.6	706.6
67.5°	579.8	547.3	504.8	465.7	436.5	407.4	436.5	504.8	547.3	579.8	579.8
70°	498.5	459.6	412.3	372.0	352.5	333.1	352.5	412.3	459.6	498.5	498.5
72.5°	414.5	376.6	338.0	303.5	281.2	258.9	281.2	303.5	338.0	376.6	414.5
75°	296.4	258.2	223.0	196.0	193.6	191.1	193.6	223.0	258.2	296.4	296.4
77.5°	203.4	176.8	159.1	145.9	146.1	146.4	146.1	159.1	176.8	203.4	203.4
80°	138.3	119.5	118.3	117.7	118.9	120.1	118.9	117.7	118.3	119.5	138.3
82.5°	100.5	90.4	92.1	93.4	93.7	93.9	93.7	90.4	92.1	90.4	100.5
85°	55.8	52.2	47.3	43.4	42.2	41.0	42.2	47.3	52.2	55.8	55.8
87.5°	21.2	22.4	25.1	26.6	28.2	27.4	28.2	25.1	22.4	21.2	21.2
90°	44.1	57.5	70.9	78.6	86.3	82.4	86.3	70.9	57.5	44.1	44.1
92.5°	88.6	111.2	127.7	141.5	147.6	146.9	147.6	111.2	127.7	111.2	88.6
95°	178.3	205.2	232.0	251.2	262.7	258.8	262.7	205.2	232.0	205.2	178.3
97.5°	275.0	311.0	340.9	358.9	370.4	378.1	370.4	311.0	340.9	311.0	275.0
100°	339.4	373.9	408.4	429.5	448.7	456.3	448.7	408.4	373.9	339.4	339.4
102.5°	391.5	436.8	474.4	497.0	513.1	520.8	513.1	474.4	436.8	391.5	391.5
105°	477.4	525.4	565.6	594.4	611.6	617.4	611.6	565.6	525.4	477.4	477.4
107.5°	563.3	612.8	650.0	681.8	702.9	715.2	702.9	650.0	612.8	563.3	563.3
110°	630.8	671.1	711.3	740.1	761.2	768.9	761.2	711.3	671.1	630.8	630.8



TEST NUMBER: P1427957

CATALOG NUMBER: SQ2W-PH1-K-125U-125D-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: P1427957

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2869.8	2869.8	2869.8	2869.8
2.5°	2871.3	2890.5	2876.9	2863.3
5°	2816.1	2872.9	2874.1	2875.3
7.5°	2671.4	2747.6	2785.2	2822.9
10°	2576.7	2662.9	2719.9	2777.0
12.5°	2491.5	2586.0	2676.0	2766.1
15°	2368.3	2464.2	2600.1	2736.0
17.5°	2259.6	2343.9	2490.3	2636.6
20°	2199.9	2277.9	2422.3	2566.7
22.5°	2146.0	2215.0	2361.4	2507.8
25°	2049.7	2100.1	2265.2	2430.2
27.5°	1960.4	1992.7	2165.0	2337.4
30°	1901.4	1927.2	2099.5	2271.8
32.5°	1833.7	1852.2	2030.3	2208.5
35°	1746.7	1761.2	1946.9	2132.6
37.5°	1648.2	1654.8	1853.8	2052.8
40°	1578.3	1578.6	1787.3	1996.0
42.5°	1511.3	1517.4	1726.1	1934.9
45°	1400.8	1408.7	1625.9	1843.1
47.5°	1319.2	1320.9	1528.0	1735.0
50°	1269.7	1261.2	1456.6	1652.0
52.5°	1222.4	1199.8	1385.5	1571.2
55°	1149.6	1098.6	1277.0	1455.4
57.5°	1030.5	995.1	1163.8	1332.5
60°	932.9	928.4	1092.2	1256.1
62.5°	840.5	863.1	1019.2	1175.2
65°	716.3	759.1	901.1	1043.1
67.5°	602.4	650.2	774.0	897.8
70°	528.8	578.9	688.1	797.3
72.5°	451.6	502.9	596.6	690.3
75°	337.7	387.4	462.7	537.9
77.5°	238.8	279.1	334.0	388.8
80°	174.8	212.4	253.6	294.9
82.5°	122.3	146.4	176.9	207.5
85°	58.3	63.7	78.3	92.8
87.5°	22.2	21.9	21.4	20.8
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: P1427957

CATALOG NUMBER: SQ2W-PH1-K-125U-125D-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: P1427957
 CATALOG NUMBER: SQ2W-PH1-K-125U-125D-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	20.51	21.40	21.44	22.34	23.57	19.34	20.23	20.27	21.17	22.39
	3H	22.69	23.48	23.63	24.44	25.68	20.39	21.19	21.33	22.14	23.39
	4H	23.50	24.25	24.46	25.21	26.47	20.64	21.39	21.59	22.35	23.60
	6H	23.97	24.66	24.94	25.63	26.89	20.78	21.47	21.75	22.44	23.70
	8H	24.13	24.78	25.10	25.76	27.03	20.84	21.50	21.81	22.48	23.74
	12H	24.18	24.81	25.16	25.79	27.08	20.85	21.48	21.83	22.45	23.74
4H	2H	20.95	21.70	21.91	22.66	23.91	20.03	20.78	20.99	21.74	22.99
	3H	23.21	23.83	24.18	24.82	26.09	21.26	21.88	22.23	22.87	24.14
	4H	24.08	24.65	25.06	25.63	26.92	21.55	22.12	22.53	23.10	24.40
	6H	24.64	25.13	25.63	26.14	27.43	21.75	22.24	22.75	23.25	24.54
	8H	24.84	25.30	25.84	26.30	27.61	21.84	22.30	22.84	23.30	24.61
	12H	24.93	25.34	25.94	26.36	27.67	21.87	22.28	22.88	23.30	24.61
8H	4H	24.10	24.56	25.10	25.56	26.87	21.78	22.24	22.78	23.24	24.55
	6H	24.73	25.11	25.75	26.15	27.46	22.05	22.43	23.07	23.47	24.78
	8H	25.00	25.33	26.02	26.36	27.68	22.20	22.53	23.23	23.56	24.88
	12H	25.13	25.42	26.16	26.44	27.81	22.26	22.56	23.30	23.58	24.95
12H	4H	24.06	24.47	25.07	25.49	26.80	21.78	22.19	22.79	23.21	24.52
	6H	24.71	25.04	25.74	26.07	27.39	22.09	22.42	23.12	23.45	24.77
	8H	24.98	25.28	26.01	26.30	27.67	22.25	22.54	23.28	23.57	24.93