

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: P1427933

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

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427933  
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-100U-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 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

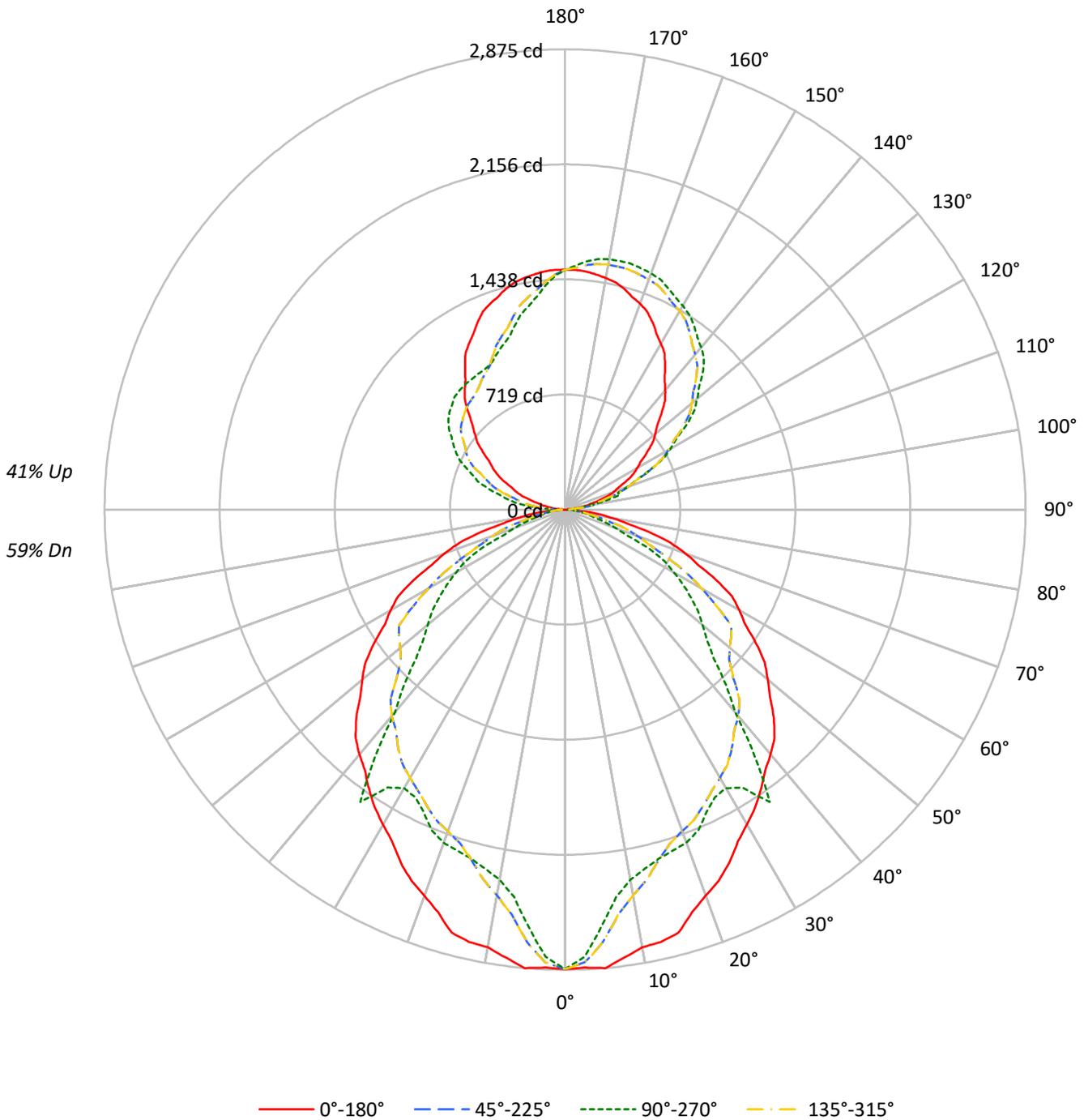
Lumens per Lamp: N/A  
Luminaire Lumens: 10723.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P1427933

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

### 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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59				
1	100	96	92	89	93	90	86	83	78	76	73	67	66	64	58	56	55	50				
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43				
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36				
4	76	65	58	51	71	61	54	49	54	48	44	47	43	39	40	37	34	31				
5	70	58	50	44	65	55	48	42	48	42	38	42	38	34	36	33	30	27				
6	65	52	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24				
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21				
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19				
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17				
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	15				

**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	2.4
10°-20°	664.2	6.2
20°-30°	973.8	9.1
30°-40°	1179.2	11.0
40°-50°	1159.5	10.8
50°-60°	1008.6	9.4
60°-70°	701.5	6.5
70°-80°	332.7	3.1
80°-90°	79.5	0.7
90°-100°	119.2	1.1
100°-110°	347.5	3.2
110°-120°	567.1	5.3
120°-130°	719.6	6.7
130°-140°	770.0	7.2
140°-150°	719.0	6.7
150°-160°	591.6	5.5
160°-170°	396.8	3.7
170°-180°	140.9	1.3
0°-30°	1890.6	17.6
0°-40°	3069.7	28.6
0°-60°	5237.9	48.8
0°-90°	6351.6	59.2
90°-120°	1033.7	9.6
90°-150°	3242.2	30.2
90°-180°	4371.0	40.8
0°-180°	10723.0	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	124
90°	4	33	4	65	4	6
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	423	587	423	723	423	417
125°	626	930	626	886	626	560
135°	851	1217	851	982	851	658
145°	1087	1403	1087	1003	1087	680
155°	1292	1524	1292	1040	1292	594
165°	1428	1589	1428	1198	1428	402
175°	1493	1556	1493	1405	1493	142
180°	1497	1497	1497	1497	1497	



TEST NUMBER: P1427933

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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°	20.6	20.8	21.3	20.1	18.1	17.0	17.0	17.3	17.6	17.6	17.6
90°	4.5	10.6	18.1	24.2	28.7	30.2	30.2	31.8	33.3	33.3	33.3
92.5°	16.6	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.3	39.3	39.3
95°	46.9	51.4	77.1	75.6	51.4	40.8	34.8	34.8	34.8	34.8	34.8
97.5°	89.5	96.2	100.4	134.6	142.2	137.3	111.9	94.1	84.1	79.5	84.1
100°	127.0	130.1	139.1	140.6	178.4	214.7	196.6	173.9	166.4	161.8	166.4
102.5°	164.5	166.4	180.3	186.6	195.4	216.0	278.9	271.9	266.8	265.9	266.8
105°	220.8	222.3	248.0	260.1	266.2	266.2	264.7	294.9	343.3	353.9	343.3
107.5°	281.0	287.9	318.2	350.5	357.5	359.3	351.5	346.9	345.1	346.3	345.1
110°	322.1	332.7	369.0	409.8	420.4	423.4	420.4	415.9	412.9	412.9	412.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.0	377.5	418.6	465.5	483.3	492.4	485.7	482.4	479.4	481.8	479.4
115°	423.4	446.1	500.6	549.0	585.3	589.8	588.3	588.3	586.8	586.8	586.8
117.5°	480.3	516.6	577.7	634.0	676.0	688.1	694.1	692.3	690.5	693.5	690.5
120°	520.2	562.6	632.1	695.7	736.5	754.6	760.7	757.7	760.7	757.7	760.7
122.5°	562.6	614.6	682.9	748.9	797.0	817.5	824.8	825.4	826.0	824.2	826.0
125°	626.1	689.6	769.8	837.8	887.7	911.9	918.0	919.5	922.5	930.1	922.5
127.5°	690.2	762.2	850.2	915.8	967.0	996.3	1005.7	1009.0	1015.3	1018.7	1015.3
130°	735.0	816.6	905.9	967.9	1017.8	1049.5	1066.2	1070.7	1078.3	1076.7	1078.3
132.5°	782.2	867.4	957.9	1022.3	1068.6	1102.8	1117.0	1130.0	1132.7	1134.8	1132.7
135°	851.4	943.7	1034.4	1097.9	1141.8	1175.0	1193.2	1205.3	1212.9	1217.4	1212.9
137.5°	924.3	1021.7	1108.8	1165.4	1209.5	1238.3	1258.8	1271.5	1279.4	1283.0	1279.4
140°	973.9	1067.7	1152.4	1211.3	1250.7	1279.4	1297.5	1312.7	1321.7	1321.7	1321.7
142.5°	1021.1	1113.6	1195.9	1254.9	1289.4	1315.7	1335.0	1346.5	1356.8	1356.8	1356.8
145°	1087.3	1179.6	1255.2	1314.2	1342.9	1367.1	1388.3	1397.4	1403.4	1403.4	1403.4
147.5°	1156.6	1238.3	1307.2	1363.8	1388.0	1416.4	1433.0	1440.3	1447.9	1444.5	1447.9
150°	1197.7	1273.3	1339.9	1392.8	1417.0	1444.2	1460.9	1466.9	1474.5	1469.9	1474.5
152.5°	1237.7	1309.6	1370.1	1419.4	1440.0	1467.2	1486.3	1492.3	1497.5	1494.1	1497.5
155°	1291.5	1355.0	1411.0	1456.3	1474.5	1500.2	1518.3	1525.9	1531.9	1524.4	1531.9
157.5°	1339.6	1394.3	1443.0	1484.8	1504.1	1526.2	1543.1	1552.5	1558.6	1555.2	1558.6
160°	1368.6	1418.5	1462.4	1501.7	1519.8	1539.5	1557.7	1568.2	1574.3	1569.8	1574.3
162.5°	1392.8	1437.9	1479.3	1515.0	1530.7	1548.0	1569.8	1579.1	1585.2	1579.4	1585.2
165°	1427.6	1463.9	1500.2	1530.4	1544.0	1557.7	1580.3	1590.9	1595.5	1589.4	1595.5
167.5°	1453.9	1481.7	1511.1	1537.1	1547.1	1560.4	1583.1	1591.8	1597.6	1590.0	1597.6
170°	1468.4	1492.6	1518.3	1539.5	1547.1	1559.2	1581.9	1589.4	1593.9	1586.4	1593.9
172.5°	1480.5	1498.7	1519.5	1538.3	1542.2	1551.9	1573.4	1580.9	1584.3	1577.9	1584.3
175°	1492.6	1503.2	1518.3	1530.4	1528.9	1535.0	1553.1	1559.2	1565.2	1556.1	1565.2
177.5°	1498.4	1503.2	1508.1	1515.3	1510.5	1510.5	1523.8	1527.4	1528.6	1523.8	1528.6
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



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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°	17.3	17.0	17.0	18.1	20.1	21.3	20.8	20.6	20.8	21.0	20.7
90°	31.8	30.2	30.2	28.7	24.2	18.1	10.6	4.5	10.6	16.6	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.6	28.7	40.8	58.7
95°	34.8	34.8	40.8	51.4	75.6	77.1	51.4	46.9	66.5	93.8	118.0
97.5°	94.1	111.9	137.3	142.2	134.6	100.4	96.2	89.5	121.9	148.8	187.8
100°	173.9	196.6	214.7	178.4	140.6	139.1	130.1	127.0	161.8	187.5	225.3
102.5°	271.9	278.9	216.0	195.4	186.6	180.3	166.4	164.5	199.3	234.7	266.5
105°	294.9	264.7	266.2	266.2	260.1	248.0	222.3	220.8	260.1	300.9	340.3
107.5°	346.9	351.5	359.3	357.5	350.5	318.2	287.9	281.0	316.4	365.4	408.6
110°	415.9	420.4	423.4	420.4	409.8	369.0	332.7	322.1	353.9	405.3	452.2



TEST NUMBER: P1427933

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.4	485.7	492.4	483.3	465.5	418.6	377.5	362.0	393.8	446.4	494.5
115°	588.3	588.3	589.8	585.3	549.0	500.6	446.1	423.4	450.7	499.1	552.0
117.5°	692.3	694.1	688.1	676.0	634.0	577.7	516.6	480.3	501.8	552.9	607.3
120°	757.7	760.7	754.6	736.5	695.7	632.1	562.6	520.2	536.9	586.8	641.2
122.5°	825.4	824.8	817.5	797.0	748.9	682.9	614.6	562.6	569.5	615.8	669.0
125°	919.5	918.0	911.9	887.7	837.8	769.8	689.6	626.1	617.0	656.3	710.8
127.5°	1009.0	1005.7	996.3	967.0	915.8	850.2	762.2	690.2	669.9	694.7	744.6
130°	1070.7	1066.2	1049.5	1017.8	967.9	905.9	816.6	735.0	706.2	721.4	765.2
132.5°	1130.0	1117.0	1102.8	1068.6	1022.3	957.9	867.4	782.2	742.5	749.2	783.4
135°	1205.3	1193.2	1175.0	1141.8	1097.9	1034.4	943.7	851.4	797.0	790.9	810.6
137.5°	1271.5	1258.8	1238.3	1209.5	1165.4	1108.8	1021.7	924.3	855.7	835.4	842.9
140°	1312.7	1297.5	1279.4	1250.7	1211.3	1152.4	1067.7	973.9	896.8	868.1	863.5
142.5°	1346.5	1335.0	1315.7	1289.4	1254.9	1195.9	1113.6	1021.1	939.1	901.9	891.3
145°	1397.4	1388.3	1367.1	1342.9	1314.2	1255.2	1179.6	1087.3	1005.7	957.3	934.6
147.5°	1440.3	1433.0	1416.4	1388.0	1363.8	1307.2	1238.3	1156.6	1072.8	1012.9	983.6
150°	1466.9	1460.9	1444.2	1417.0	1392.8	1339.9	1273.3	1197.7	1117.6	1054.1	1016.3
152.5°	1492.3	1486.3	1467.2	1440.0	1419.4	1370.1	1309.6	1237.7	1156.3	1092.8	1053.8
155°	1525.9	1518.3	1500.2	1474.5	1456.3	1411.0	1355.0	1291.5	1221.9	1155.4	1111.5
157.5°	1552.5	1543.1	1526.2	1504.1	1484.8	1443.0	1394.3	1339.6	1278.8	1215.3	1170.5
160°	1568.2	1557.7	1539.5	1519.8	1501.7	1462.4	1418.5	1368.6	1312.7	1255.2	1206.8
162.5°	1579.1	1569.8	1548.0	1530.7	1515.0	1479.3	1437.9	1392.8	1342.9	1292.7	1247.9
165°	1590.9	1580.3	1557.7	1544.0	1530.4	1500.2	1463.9	1427.6	1385.3	1344.4	1308.1
167.5°	1591.8	1583.1	1560.4	1547.1	1537.1	1511.1	1481.7	1453.9	1420.9	1388.9	1358.6
170°	1589.4	1581.9	1559.2	1547.1	1539.5	1518.3	1492.6	1468.4	1442.7	1415.5	1391.3
172.5°	1580.9	1573.4	1551.9	1542.2	1538.3	1519.5	1498.7	1480.5	1458.4	1438.5	1419.1
175°	1559.2	1553.1	1535.0	1528.9	1530.4	1518.3	1503.2	1492.6	1479.0	1466.9	1456.3
177.5°	1527.4	1523.8	1510.5	1510.5	1515.3	1508.1	1503.2	1498.4	1492.3	1488.7	1485.1
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2

TEST NUMBER: P1427933

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

**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	465.7	504.8	547.3	579.8
70°	498.5	459.6	412.3	372.0	352.5	333.1	352.5	372.0	412.3	459.6	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	196.0	223.0	258.2	296.4
77.5°	203.4	176.8	159.1	145.9	146.1	146.4	146.1	145.9	159.1	176.8	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	93.4	92.1	90.4	100.5
85°	55.8	52.2	47.3	43.4	42.2	41.0	42.2	43.4	47.3	52.2	55.8
87.5°	19.3	20.0	22.1	23.3	24.5	23.9	24.5	23.3	22.1	20.0	19.3
90°	34.8	45.4	56.0	62.0	68.1	65.0	68.1	62.0	56.0	45.4	34.8
92.5°	69.9	87.7	100.7	111.6	116.4	115.8	116.4	111.6	100.7	87.7	69.9
95°	140.6	161.8	183.0	198.1	207.2	204.2	207.2	198.1	183.0	161.8	140.6
97.5°	216.9	245.3	268.9	283.1	292.2	298.2	292.2	283.1	268.9	245.3	216.9
100°	267.7	294.9	322.1	338.8	353.9	359.9	353.9	338.8	322.1	294.9	267.7
102.5°	308.8	344.5	374.1	392.0	404.7	410.7	404.7	392.0	374.1	344.5	308.8
105°	376.6	414.4	446.1	468.8	482.4	487.0	482.4	468.8	446.1	414.4	376.6
107.5°	444.3	483.3	512.7	537.8	554.4	564.1	554.4	537.8	512.7	483.3	444.3
110°	497.5	529.3	561.1	583.7	600.4	606.4	600.4	583.7	561.1	529.3	497.5



TEST NUMBER: P1427933

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.3	577.7	609.5	632.1	651.2	659.7	651.2	632.1	609.5	577.7	542.3
115°	604.9	651.8	680.5	701.7	715.3	722.9	715.3	701.7	680.5	651.8	604.9
117.5°	656.9	705.9	737.4	753.7	760.1	765.5	760.1	753.7	737.4	705.9	656.9
120°	689.6	735.0	771.3	792.4	800.0	803.0	800.0	792.4	771.3	735.0	689.6
122.5°	719.8	762.8	797.9	823.9	836.3	839.3	836.3	823.9	797.9	762.8	719.8
125°	762.2	803.0	839.3	865.0	878.6	886.2	878.6	865.0	839.3	803.0	762.2
127.5°	799.1	843.3	876.5	899.8	913.1	919.2	913.1	899.8	876.5	843.3	799.1
130°	819.7	865.0	898.3	924.0	936.1	942.2	936.1	924.0	898.3	865.0	819.7
132.5°	835.4	883.2	917.7	940.9	954.3	960.3	954.3	940.9	917.7	883.2	835.4
135°	854.4	904.3	940.6	963.3	975.4	981.5	975.4	963.3	940.6	904.3	854.4
137.5°	871.1	916.4	954.3	978.1	989.0	993.0	989.0	978.1	954.3	916.4	871.1
140°	883.2	922.5	960.3	983.0	995.1	996.6	995.1	983.0	960.3	922.5	883.2
142.5°	898.9	929.8	962.7	985.4	997.5	1000.2	997.5	985.4	962.7	929.8	898.9
145°	927.0	945.2	967.9	989.0	999.6	1002.6	999.6	989.0	967.9	945.2	927.0
147.5°	962.4	968.2	980.0	993.9	1004.2	1006.3	1004.2	993.9	980.0	968.2	962.4
150°	989.0	987.5	992.1	1001.1	1010.2	1008.7	1010.2	1001.1	992.1	987.5	989.0
152.5°	1019.3	1010.5	1010.2	1014.4	1018.7	1018.4	1018.7	1014.4	1010.2	1010.5	1019.3
155°	1070.7	1054.1	1045.0	1042.0	1042.0	1040.5	1042.0	1042.0	1045.0	1054.1	1070.7
157.5°	1127.3	1104.0	1090.4	1083.1	1081.0	1077.7	1081.0	1083.1	1090.4	1104.0	1127.3
160°	1166.0	1140.3	1126.7	1114.6	1110.0	1105.5	1110.0	1114.6	1126.7	1140.3	1166.0
162.5°	1202.3	1177.8	1162.9	1152.1	1147.5	1140.6	1147.5	1152.1	1162.9	1177.8	1202.3
165°	1261.2	1235.5	1218.9	1209.8	1203.8	1197.7	1203.8	1209.8	1218.9	1235.5	1261.2
167.5°	1320.2	1292.1	1281.2	1270.9	1265.2	1254.3	1265.2	1270.9	1281.2	1292.1	1320.2
170°	1356.5	1330.8	1324.8	1315.7	1305.1	1293.0	1305.1	1315.7	1324.8	1330.8	1356.5
172.5°	1388.0	1370.7	1364.7	1355.6	1352.3	1342.6	1352.3	1355.6	1364.7	1370.7	1388.0
175°	1433.6	1420.0	1420.0	1418.5	1414.0	1404.9	1414.0	1418.5	1420.0	1420.0	1433.6
177.5°	1471.8	1464.5	1469.3	1469.3	1468.1	1459.7	1468.1	1469.3	1469.3	1464.5	1471.8
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1427933

CATALOG NUMBER: SQ2W-PH1-K-100U-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°	20.7	21.0	20.8	20.6
90°	27.2	16.6	10.6	4.5
92.5°	58.7	40.8	28.7	16.6
95°	118.0	93.8	66.5	46.9
97.5°	187.8	148.8	121.9	89.5
100°	225.3	187.5	161.8	127.0
102.5°	266.5	234.7	199.3	164.5
105°	340.3	300.9	260.1	220.8
107.5°	408.6	365.4	316.4	281.0
110°	452.2	405.3	353.9	322.1



TEST NUMBER: P1427933

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	494.5	446.4	393.8	362.0
115°	552.0	499.1	450.7	423.4
117.5°	607.3	552.9	501.8	480.3
120°	641.2	586.8	536.9	520.2
122.5°	669.0	615.8	569.5	562.6
125°	710.8	656.3	617.0	626.1
127.5°	744.6	694.7	669.9	690.2
130°	765.2	721.4	706.2	735.0
132.5°	783.4	749.2	742.5	782.2
135°	810.6	790.9	797.0	851.4
137.5°	842.9	835.4	855.7	924.3
140°	863.5	868.1	896.8	973.9
142.5°	891.3	901.9	939.1	1021.1
145°	934.6	957.3	1005.7	1087.3
147.5°	983.6	1012.9	1072.8	1156.6
150°	1016.3	1054.1	1117.6	1197.7
152.5°	1053.8	1092.8	1156.3	1237.7
155°	1111.5	1155.4	1221.9	1291.5
157.5°	1170.5	1215.3	1278.8	1339.6
160°	1206.8	1255.2	1312.7	1368.6
162.5°	1247.9	1292.7	1342.9	1392.8
165°	1308.1	1344.4	1385.3	1427.6
167.5°	1358.6	1388.9	1420.9	1453.9
170°	1391.3	1415.5	1442.7	1468.4
172.5°	1419.1	1438.5	1458.4	1480.5
175°	1456.3	1466.9	1479.0	1492.6
177.5°	1485.1	1488.7	1492.3	1498.4
180°	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1427933

CATALOG NUMBER: SQ2W-PH1-K-100U-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	21.02	21.96	21.89	22.85	23.99	19.84	20.79	20.72	21.68	22.82
	3H	23.20	24.04	24.09	24.95	26.11	20.90	21.75	21.79	22.65	23.81
	4H	24.01	24.81	24.92	25.72	26.89	21.15	21.95	22.05	22.86	24.03
	6H	24.49	25.22	25.40	26.14	27.32	21.30	22.03	22.21	22.95	24.13
	8H	24.64	25.34	25.56	26.27	27.45	21.36	22.05	22.28	22.99	24.17
	12H	24.70	25.37	25.63	26.30	27.50	21.37	22.04	22.30	22.96	24.17
4H	2H	21.46	22.26	22.37	23.17	24.34	20.54	21.34	21.45	22.25	23.42
	3H	23.72	24.38	24.64	25.33	26.51	21.78	22.44	22.70	23.38	24.56
	4H	24.60	25.20	25.53	26.14	27.35	22.07	22.68	23.00	23.61	24.82
	6H	25.16	25.68	26.11	26.64	27.85	22.27	22.79	23.22	23.76	24.97
	8H	25.37	25.85	26.31	26.81	28.03	22.37	22.85	23.31	23.81	25.03
	12H	25.45	25.89	26.42	26.86	28.09	22.39	22.83	23.36	23.80	25.03
8H	4H	24.63	25.11	25.57	26.07	27.29	22.31	22.79	23.25	23.75	24.97
	6H	25.26	25.66	26.23	26.66	27.88	22.58	22.98	23.55	23.98	25.20
	8H	25.52	25.88	26.50	26.86	28.10	22.73	23.08	23.71	24.07	25.31
	12H	25.66	25.97	26.64	26.95	28.24	22.79	23.10	23.78	24.08	25.37
12H	4H	24.58	25.02	25.55	25.99	27.22	22.31	22.74	23.27	23.72	24.95
	6H	25.24	25.59	26.22	26.58	27.82	22.61	22.97	23.60	23.95	25.19
	8H	25.51	25.82	26.50	26.80	28.09	22.78	23.09	23.76	24.07	25.36