

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: P1435871

Luminaire Tested: SQ2W-FA-K-150U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435871
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FA-K-150U-100D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

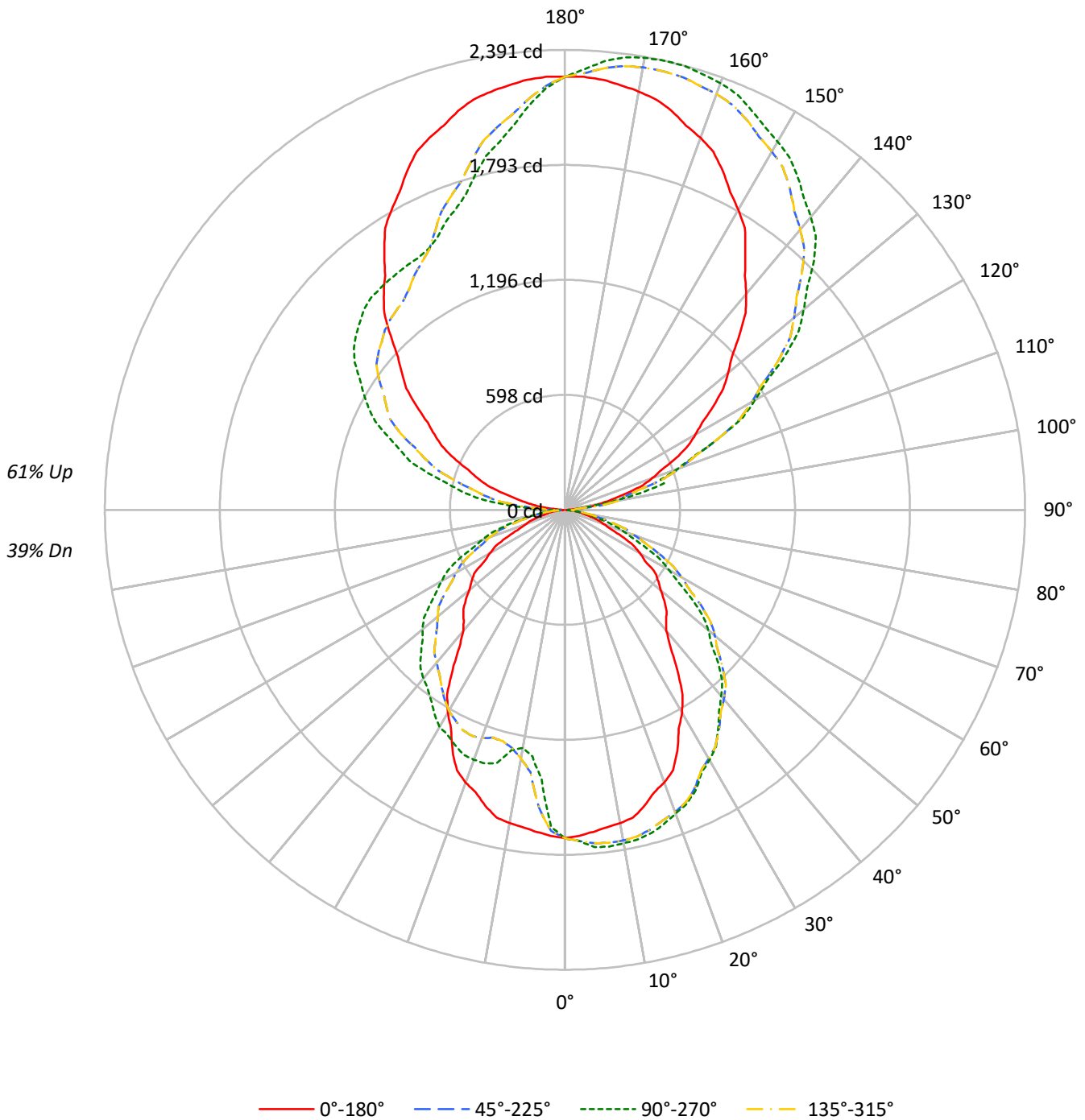
Lumens per Lamp: N/A
Luminaire Lumens: 10822.6 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 92.7
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	26	22	41	31	25	20	26	21	18	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27560	27560	27560	27560
5°	27238	28525	27238	22734
10°	27118	28855	27118	20610
15°	26652	29086	26652	22783
20°	25919	28876	25919	23759
25°	24634	28642	24634	24044
30°	22696	28000	22696	24300
35°	20083	27385	20083	23865
40°	17291	26634	17291	24124
45°	17070	25683	17070	24171
50°	16287	24430	16287	24264
55°	16203	22536	16203	24025
60°	14528	20082	14528	23928
65°	12386	17692	12386	23255
70°	9994	14993	9994	21550
75°	8665	12383	8665	19812
80°	7382	9223	7382	15992
85°	4909	4909	4909	9800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 26489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.4
10°-20°	429.2	4.0
20°-30°	651.8	6.0
30°-40°	765.2	7.1
40°-50°	776.5	7.2
50°-60°	680.2	6.3
60°-70°	482.4	4.5
70°-80°	248.4	2.3
80°-90°	61.4	0.6
90°-100°	179.2	1.7
100°-110°	522.6	4.8
110°-120°	852.8	7.9
120°-130°	1082.1	10.0
130°-140°	1157.9	10.7
140°-150°	1081.2	10.0
150°-160°	889.7	8.2
160°-170°	596.7	5.5
170°-180°	211.9	2.0
0°-30°	1234.5	11.4
0°-40°	1999.7	18.5
0°-60°	3456.4	31.9
0°-90°	4248.6	39.3
90°-120°	1554.5	14.4
90°-150°	4875.8	45.1
90°-180°	6574.0	60.7
0°-180°	10822.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1707	1707	1707	1707	1707	
5°	1681	1760	1681	1403	1681	160
15°	1594	1740	1594	1363	1594	448
25°	1383	1608	1383	1350	1383	631
35°	1019	1389	1019	1211	1019	635
45°	748	1125	748	1059	748	572
55°	576	801	576	854	576	498
65°	324	463	324	609	324	324
75°	139	198	139	318	139	150
85°	26	26	26	53	26	33
90°	7	50	7	98	7	6
95°	70	52	70	307	70	85
105°	332	532	332	732	332	353
115°	637	882	637	1087	637	628
125°	942	1399	942	1333	942	842
135°	1280	1831	1280	1476	1280	989
145°	1635	2110	1635	1508	1635	1023
155°	1942	2292	1942	1565	1942	893
165°	2147	2390	2147	1801	2147	604
175°	2245	2340	2245	2113	2245	213
180°	2252	2252	2252	2252	2252	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1696.4	1708.2	1720.0	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9
5°	1680.6	1701.1	1721.7	1731.3	1737.2	1741.6	1744.5	1748.2	1754.1	1760.0	1754.1
7.5°	1664.7	1692.3	1720.0	1733.5	1742.3	1749.4	1754.7	1759.4	1762.3	1765.2	1762.3
10°	1654.1	1686.4	1718.8	1733.5	1742.3	1748.2	1751.1	1754.1	1757.0	1760.0	1757.0
12.5°	1638.2	1672.9	1707.6	1724.7	1735.8	1742.9	1745.8	1748.8	1751.7	1754.7	1751.7
15°	1594.5	1641.6	1688.6	1707.0	1715.8	1723.2	1729.1	1734.2	1737.2	1740.1	1737.2
17.5°	1540.3	1597.3	1654.4	1677.5	1689.2	1697.8	1703.1	1707.6	1710.0	1712.3	1710.0
20°	1508.5	1570.3	1632.0	1656.3	1668.1	1675.4	1678.4	1680.6	1680.6	1680.6	1680.6
22.5°	1466.2	1535.0	1603.8	1629.8	1641.6	1647.8	1648.4	1649.4	1651.7	1654.1	1651.7
25°	1382.8	1462.2	1541.6	1574.7	1592.3	1599.7	1596.7	1596.0	1601.9	1607.8	1601.9
27.5°	1280.9	1380.9	1480.9	1514.7	1526.5	1533.8	1536.8	1539.0	1539.0	1539.0	1539.0
30°	1217.4	1329.2	1440.9	1477.7	1489.4	1496.8	1499.7	1501.9	1501.9	1501.9	1501.9
32.5°	1138.0	1270.9	1403.8	1444.1	1453.5	1458.5	1459.1	1459.6	1459.6	1459.6	1459.6
35°	1018.9	1180.7	1342.4	1387.2	1393.1	1396.1	1396.1	1395.3	1392.4	1389.4	1392.4
37.5°	899.8	1083.3	1266.8	1319.3	1328.1	1330.5	1326.4	1322.5	1319.6	1316.7	1319.6
40°	820.4	1020.4	1220.4	1277.0	1285.8	1285.8	1277.0	1269.6	1266.7	1263.7	1266.7
42.5°	778.1	975.7	1173.3	1229.3	1238.1	1237.0	1225.8	1216.7	1213.7	1210.8	1213.7
45°	747.6	924.1	1100.5	1151.2	1160.1	1158.6	1146.8	1136.5	1130.7	1124.8	1130.7
47.5°	701.3	856.6	1011.9	1061.7	1076.4	1074.9	1057.3	1042.6	1036.7	1030.8	1036.7
50°	648.4	801.3	954.2	1003.5	1018.2	1016.7	999.1	984.4	978.5	972.6	978.5
52.5°	611.4	754.9	898.4	943.5	955.8	952.0	932.0	915.6	909.7	903.8	909.7
55°	575.6	696.2	816.8	853.5	862.3	856.5	835.9	818.2	809.4	800.6	809.4
57.5°	492.3	606.9	721.6	757.4	766.8	759.7	736.2	716.0	706.0	696.0	706.0
60°	449.9	552.8	655.8	690.3	702.1	696.2	672.7	651.3	636.6	621.9	636.6
62.5°	402.3	493.4	584.6	619.7	636.2	632.7	609.1	587.8	573.1	558.4	573.1
65°	324.2	403.6	483.0	518.3	538.9	537.4	513.9	492.6	477.8	463.1	477.8
67.5°	254.1	322.3	390.5	425.2	448.7	447.6	421.7	399.3	387.6	375.8	387.6
70°	211.7	270.5	329.3	361.7	385.2	385.2	361.7	341.1	329.3	317.6	329.3
72.5°	185.3	230.0	274.7	305.2	331.1	331.1	305.2	283.5	274.1	264.7	274.1
75°	138.9	165.4	191.9	220.5	250.0	252.9	229.4	210.3	204.4	198.5	204.4
77.5°	100.6	112.9	125.3	147.8	173.6	176.6	156.6	141.0	138.6	136.3	138.6
80°	79.4	82.3	85.3	103.7	127.2	130.1	112.5	99.2	99.2	99.2	99.2
82.5°	52.9	55.9	58.8	71.9	88.4	90.1	77.2	66.9	64.5	62.2	64.5
85°	26.5	26.5	26.5	30.9	36.8	36.8	30.9	26.5	26.5	26.5	26.5
87.5°	6.7	8.5	10.8	14.3	18.1	18.5	16.2	14.8	15.3	15.3	15.3
90°	6.8	15.9	27.3	36.4	43.2	45.5	45.5	47.8	50.0	50.0	50.0
92.5°	25.0	39.6	40.0	40.0	48.7	52.8	56.4	56.9	59.1	59.1	59.1
95°	70.5	77.3	116.0	113.7	77.3	61.4	52.3	52.3	52.3	52.3	52.3
97.5°	134.6	144.6	151.0	202.4	213.8	206.5	168.3	141.5	126.4	119.6	126.4
100°	191.0	195.6	209.2	211.5	268.4	322.9	295.7	261.5	250.2	243.3	250.2
102.5°	247.4	250.2	271.1	280.6	293.8	324.8	419.4	408.9	401.2	399.8	401.2
105°	332.0	334.3	373.0	391.2	400.3	400.3	398.0	443.5	516.3	532.2	516.3
107.5°	422.6	433.0	478.5	527.2	537.6	540.4	528.5	521.7	519.0	520.8	519.0
110°	484.4	500.3	554.9	616.3	632.2	636.8	632.2	625.4	620.9	620.9	620.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	544.5	567.7	629.5	700.0	726.9	740.5	730.5	725.5	720.9	724.6	720.9
115°	636.8	670.9	752.8	825.6	880.1	887.0	884.7	884.7	882.4	882.4	882.4
117.5°	722.3	776.9	868.8	953.4	1016.6	1034.8	1043.9	1041.2	1038.4	1043.0	1038.4
120°	782.3	846.0	950.6	1046.2	1107.6	1134.9	1144.0	1139.4	1144.0	1139.4	1144.0
122.5°	846.0	924.3	1027.1	1126.2	1198.5	1229.5	1240.4	1241.3	1242.2	1239.5	1242.2
125°	941.5	1037.1	1157.6	1259.9	1335.0	1371.4	1380.5	1382.8	1387.3	1398.7	1387.3
127.5°	1038.0	1146.2	1278.6	1377.3	1454.2	1498.3	1512.4	1517.4	1526.9	1531.9	1526.9
130°	1105.3	1228.1	1362.3	1455.5	1530.6	1578.3	1603.4	1610.2	1621.6	1619.3	1621.6
132.5°	1176.3	1304.5	1440.5	1537.4	1607.0	1658.4	1679.8	1699.3	1703.4	1706.6	1703.4
135°	1280.4	1419.1	1555.6	1651.1	1717.1	1767.1	1794.4	1812.6	1824.0	1830.8	1824.0
137.5°	1390.0	1536.5	1667.5	1752.6	1819.0	1862.2	1893.1	1912.2	1924.0	1929.5	1924.0
140°	1464.6	1605.6	1733.0	1821.7	1880.8	1924.0	1951.3	1974.1	1987.7	1987.7	1987.7
142.5°	1535.6	1674.8	1798.5	1887.2	1939.0	1978.6	2007.7	2025.0	2040.5	2040.5	2040.5
145°	1635.2	1773.9	1887.6	1976.3	2019.6	2055.9	2087.8	2101.4	2110.5	2110.5	2110.5
147.5°	1739.4	1862.2	1965.9	2050.9	2087.3	2130.1	2155.1	2166.0	2177.4	2172.4	2177.4
150°	1801.2	1914.9	2015.0	2094.6	2131.0	2171.9	2196.9	2206.0	2217.4	2210.6	2217.4
152.5°	1861.3	1969.5	2060.5	2134.6	2165.6	2206.5	2235.2	2244.2	2252.0	2247.0	2252.0
155°	1942.2	2037.7	2121.9	2190.1	2217.4	2256.1	2283.4	2294.7	2303.8	2292.5	2303.8
157.5°	2014.5	2096.9	2170.1	2232.9	2262.0	2295.2	2320.7	2334.8	2343.9	2338.9	2343.9
160°	2058.2	2133.3	2199.2	2258.3	2285.6	2315.2	2342.5	2358.4	2367.5	2360.7	2367.5
162.5°	2094.6	2162.4	2224.7	2278.4	2302.0	2327.9	2360.7	2374.8	2383.9	2375.2	2383.9
165°	2146.9	2201.5	2256.1	2301.6	2322.0	2342.5	2376.6	2392.5	2399.4	2390.3	2399.4
167.5°	2186.5	2228.3	2272.5	2311.6	2326.6	2346.6	2380.7	2393.9	2402.5	2391.2	2402.5
170°	2208.3	2244.7	2283.4	2315.2	2326.6	2344.8	2378.9	2390.3	2397.1	2385.7	2397.1
172.5°	2226.5	2253.8	2285.2	2313.4	2319.3	2333.9	2366.2	2377.5	2382.5	2373.0	2382.5
175°	2244.7	2260.6	2283.4	2301.6	2299.3	2308.4	2335.7	2344.8	2353.9	2340.2	2353.9
177.5°	2253.3	2260.6	2267.9	2278.8	2271.5	2271.5	2291.6	2297.0	2298.8	2291.6	2298.8
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1722.9	1722.9	1722.9	1722.9	1722.9	1720.0	1708.2	1696.4	1696.4	1696.4	1687.6
5°	1748.2	1744.5	1741.6	1737.2	1731.3	1721.7	1701.1	1680.6	1671.7	1662.9	1625.4
7.5°	1759.4	1754.7	1749.4	1742.3	1733.5	1720.0	1692.3	1664.7	1625.3	1585.9	1502.4
10°	1754.1	1751.1	1748.2	1742.3	1733.5	1718.8	1686.4	1654.1	1574.7	1495.3	1415.9
12.5°	1748.8	1745.8	1742.9	1735.8	1724.7	1707.6	1672.9	1638.2	1525.9	1413.5	1341.8
15°	1734.2	1729.1	1723.2	1715.8	1707.0	1688.6	1641.6	1594.5	1468.1	1341.7	1281.4
17.5°	1707.6	1703.1	1697.8	1689.2	1677.5	1654.4	1597.3	1540.3	1408.0	1275.6	1236.8
20°	1680.6	1678.4	1675.4	1668.1	1656.3	1632.0	1570.3	1508.5	1376.2	1243.9	1226.2
22.5°	1649.4	1648.4	1647.8	1641.6	1629.8	1603.8	1535.0	1466.2	1336.2	1206.2	1206.8
25°	1596.0	1596.7	1599.7	1592.3	1574.7	1541.6	1462.2	1382.8	1268.1	1153.5	1173.3
27.5°	1539.0	1536.8	1533.8	1526.5	1514.7	1480.9	1380.9	1280.9	1190.4	1099.8	1132.7
30°	1501.9	1499.7	1496.8	1489.4	1477.7	1440.9	1329.2	1217.4	1141.0	1064.5	1102.7
32.5°	1459.6	1459.1	1458.5	1453.5	1444.1	1403.8	1270.9	1138.0	1082.7	1027.4	1067.4
35°	1395.3	1396.1	1396.1	1393.1	1387.2	1342.4	1180.7	1018.9	995.4	971.9	1018.9
37.5°	1322.5	1326.4	1330.5	1328.1	1319.3	1266.8	1083.3	899.8	907.5	915.1	972.2
40°	1269.6	1277.0	1285.8	1285.8	1277.0	1220.4	1020.4	820.4	846.9	873.4	935.1
42.5°	1216.7	1225.8	1237.0	1238.1	1229.3	1173.3	975.7	778.1	806.9	835.7	899.8
45°	1136.5	1146.8	1158.6	1160.1	1151.2	1100.5	924.1	747.6	765.3	782.9	844.7
47.5°	1042.6	1057.3	1074.9	1076.4	1061.7	1011.9	856.6	701.3	714.3	727.2	790.4
50°	984.4	999.1	1016.7	1018.2	1003.5	954.2	801.3	648.4	666.0	683.7	749.9
52.5°	915.6	932.0	952.0	955.8	943.5	898.4	754.9	611.4	621.9	632.5	704.0
55°	818.2	835.9	856.5	862.3	853.5	816.8	696.2	575.6	566.8	558.0	630.8
57.5°	716.0	736.2	759.7	766.8	757.4	721.6	606.9	492.3	484.6	477.0	555.8
60°	651.3	672.7	696.2	702.1	690.3	655.8	552.8	449.9	435.2	420.5	502.8
62.5°	587.8	609.1	632.7	636.2	619.7	584.6	493.4	402.3	392.3	382.3	462.3
65°	492.6	513.9	537.4	538.9	518.3	483.0	403.6	324.2	330.1	336.0	408.0
67.5°	399.3	421.7	447.6	448.7	425.2	390.5	322.3	254.1	273.5	292.9	357.7
70°	341.1	361.7	385.2	385.2	361.7	329.3	270.5	211.7	238.2	264.7	324.2
72.5°	283.5	305.2	331.1	331.1	305.2	274.7	230.0	185.3	211.7	238.2	287.2
75°	210.3	229.4	252.9	250.0	220.5	191.9	165.4	138.9	165.4	191.9	229.4
77.5°	141.0	156.6	176.6	173.6	147.8	125.3	112.9	100.6	122.3	144.1	170.3
80°	99.2	112.5	130.1	127.2	103.7	85.3	82.3	79.4	94.1	108.8	127.9
82.5°	66.9	77.2	90.1	88.4	71.9	58.8	55.9	52.9	65.3	77.6	90.9
85°	26.5	30.9	36.8	36.8	30.9	26.5	26.5	26.5	32.3	38.2	44.1
87.5°	14.8	16.2	18.5	18.1	14.3	10.8	8.5	6.7	10.8	15.0	18.8
90°	47.8	45.5	45.5	43.2	36.4	27.3	15.9	6.8	15.9	25.0	40.9
92.5°	56.9	56.4	52.8	48.7	40.0	40.0	39.6	25.0	43.2	61.4	88.2
95°	52.3	52.3	61.4	77.3	113.7	116.0	77.3	70.5	100.1	141.0	177.4
97.5°	141.5	168.3	206.5	213.8	202.4	151.0	144.6	134.6	183.3	223.8	282.5
100°	261.5	295.7	322.9	268.4	211.5	209.2	195.6	191.0	243.3	282.0	338.9
102.5°	408.9	419.4	324.8	293.8	280.6	271.1	250.2	247.4	299.7	353.0	400.7
105°	443.5	398.0	400.3	400.3	391.2	373.0	334.3	332.0	391.2	452.6	511.7
107.5°	521.7	528.5	540.4	537.6	527.2	478.5	433.0	422.6	475.8	549.5	614.5
110°	625.4	632.2	636.8	632.2	616.3	554.9	500.3	484.4	532.2	609.5	680.0



TEST NUMBER: P1435871

CATALOG NUMBER: SQ2W-FA-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	725.5	730.5	740.5	726.9	700.0	629.5	567.7	544.5	592.2	671.4	743.7
115°	884.7	884.7	887.0	880.1	825.6	752.8	670.9	636.8	677.7	750.5	830.1
117.5°	1041.2	1043.9	1034.8	1016.6	953.4	868.8	776.9	722.3	754.6	831.5	913.3
120°	1139.4	1144.0	1134.9	1107.6	1046.2	950.6	846.0	782.3	807.4	882.4	964.3
122.5°	1241.3	1240.4	1229.5	1198.5	1126.2	1027.1	924.3	846.0	856.5	926.1	1006.1
125°	1382.8	1380.5	1371.4	1335.0	1259.9	1157.6	1037.1	941.5	927.9	987.0	1068.9
127.5°	1517.4	1512.4	1498.3	1454.2	1377.3	1278.6	1146.2	1038.0	1007.5	1044.8	1119.9
130°	1610.2	1603.4	1578.3	1530.6	1455.5	1362.3	1228.1	1105.3	1062.1	1084.8	1150.8
132.5°	1699.3	1679.8	1658.4	1607.0	1537.4	1440.5	1304.5	1176.3	1116.7	1126.7	1178.1
135°	1812.6	1794.4	1767.1	1717.1	1651.1	1555.6	1419.1	1280.4	1198.5	1189.4	1219.0
137.5°	1912.2	1893.1	1862.2	1819.0	1752.6	1667.5	1536.5	1390.0	1286.8	1256.3	1267.7
140°	1974.1	1951.3	1924.0	1880.8	1821.7	1733.0	1605.6	1464.6	1348.6	1305.4	1298.6
142.5°	2025.0	2007.7	1978.6	1939.0	1887.2	1798.5	1674.8	1535.6	1412.3	1356.4	1340.5
145°	2101.4	2087.8	2055.9	2019.6	1976.3	1887.6	1773.9	1635.2	1512.4	1439.6	1405.5
147.5°	2166.0	2155.1	2130.1	2087.3	2050.9	1965.9	1862.2	1739.4	1613.4	1523.3	1479.2
150°	2206.0	2196.9	2171.9	2131.0	2094.6	2015.0	1914.9	1801.2	1680.7	1585.2	1528.3
152.5°	2244.2	2235.2	2206.5	2165.6	2134.6	2060.5	1969.5	1861.3	1738.9	1643.4	1584.7
155°	2294.7	2283.4	2256.1	2217.4	2190.1	2121.9	2037.7	1942.2	1837.6	1737.5	1671.6
157.5°	2334.8	2320.7	2295.2	2262.0	2232.9	2170.1	2096.9	2014.5	1923.1	1827.6	1760.3
160°	2358.4	2342.5	2315.2	2285.6	2258.3	2199.2	2133.3	2058.2	1974.1	1887.6	1814.9
162.5°	2374.8	2360.7	2327.9	2302.0	2278.4	2224.7	2162.4	2094.6	2019.6	1944.0	1876.7
165°	2392.5	2376.6	2342.5	2322.0	2301.6	2256.1	2201.5	2146.9	2083.2	2021.8	1967.2
167.5°	2393.9	2380.7	2346.6	2326.6	2311.6	2272.5	2228.3	2186.5	2136.9	2088.7	2043.2
170°	2390.3	2378.9	2344.8	2326.6	2315.2	2283.4	2244.7	2208.3	2169.7	2128.7	2092.3
172.5°	2377.5	2366.2	2333.9	2319.3	2313.4	2285.2	2253.8	2226.5	2193.3	2163.3	2134.2
175°	2344.8	2335.7	2308.4	2299.3	2301.6	2283.4	2260.6	2244.7	2224.2	2206.0	2190.1
177.5°	2297.0	2291.6	2271.5	2271.5	2278.8	2267.9	2260.6	2253.3	2244.2	2238.8	2233.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1435871

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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1675.9	1666.4	1659.4	1653.5	1651.1	1648.8	1651.1	1653.5	1659.4	1666.4	1675.9
5°	1578.4	1528.4	1475.4	1432.1	1417.4	1402.7	1417.4	1432.1	1475.4	1528.4	1578.4
7.5°	1404.1	1343.9	1321.5	1303.6	1298.9	1294.2	1298.9	1303.6	1321.5	1343.9	1404.1
10°	1336.5	1288.0	1270.3	1257.1	1257.1	1257.1	1257.1	1257.1	1270.3	1288.0	1336.5
12.5°	1283.6	1253.9	1252.7	1254.8	1266.5	1278.3	1266.5	1254.8	1252.7	1253.9	1283.6
15°	1243.1	1247.6	1294.6	1333.6	1348.3	1363.0	1348.3	1333.6	1294.6	1247.6	1243.1
17.5°	1229.2	1254.5	1312.7	1359.3	1371.1	1382.8	1371.1	1359.3	1312.7	1254.5	1229.2
20°	1246.8	1279.2	1323.3	1359.3	1371.1	1382.8	1371.1	1359.3	1323.3	1279.2	1246.8
22.5°	1250.9	1290.3	1325.0	1354.0	1365.8	1377.5	1365.8	1354.0	1325.0	1290.3	1250.9
25°	1238.0	1285.0	1314.5	1338.0	1343.9	1349.7	1343.9	1338.0	1314.5	1285.0	1238.0
27.5°	1206.8	1258.6	1288.0	1311.1	1315.2	1319.3	1315.2	1311.1	1288.0	1258.6	1206.8
30°	1179.2	1232.1	1261.5	1285.8	1294.6	1303.4	1294.6	1285.8	1261.5	1232.1	1179.2
32.5°	1139.2	1193.3	1229.8	1257.5	1259.3	1261.1	1259.3	1257.5	1229.8	1193.3	1139.2
35°	1089.5	1145.4	1186.5	1216.7	1213.7	1210.8	1213.7	1216.7	1186.5	1145.4	1089.5
37.5°	1045.7	1100.4	1136.2	1164.0	1167.6	1171.1	1167.6	1164.0	1136.2	1100.4	1045.7
40°	1008.6	1064.5	1102.7	1132.9	1138.7	1144.6	1138.7	1132.9	1102.7	1064.5	1008.6
42.5°	975.7	1032.7	1071.0	1101.1	1107.0	1112.9	1107.0	1101.1	1071.0	1032.7	975.7
45°	921.1	980.0	1021.1	1052.7	1055.7	1058.6	1055.7	1052.7	1021.1	980.0	921.1
47.5°	870.4	929.5	967.8	997.2	1000.1	1003.0	1000.1	997.2	967.8	929.5	870.4
50°	832.2	892.5	930.7	960.1	963.0	966.0	963.0	960.1	930.7	892.5	832.2
52.5°	795.7	858.4	891.9	917.8	920.7	923.6	920.7	917.8	891.9	858.4	795.7
55°	730.7	796.9	829.3	853.5	853.5	853.5	853.5	829.3	796.9	730.7	730.7
57.5°	663.4	731.3	759.6	781.6	785.1	788.7	785.1	781.6	759.6	731.3	663.4
60°	617.5	686.6	710.2	729.3	735.2	741.0	735.2	729.3	710.2	686.6	617.5
62.5°	572.2	639.0	662.5	681.0	684.6	688.1	684.6	681.0	662.5	639.0	572.2
65°	502.1	560.9	584.4	602.8	605.8	608.7	605.8	602.8	584.4	560.9	502.1
67.5°	437.7	485.9	502.4	515.3	517.7	520.0	517.7	515.3	502.4	485.9	437.7
70°	394.8	435.9	447.7	456.5	456.5	456.5	456.5	447.7	435.9	394.8	394.8
72.5°	343.6	377.7	389.5	398.9	401.2	403.6	401.2	398.9	389.5	377.7	343.6
75°	270.5	295.5	304.4	311.7	314.6	317.6	314.6	311.7	304.4	295.5	270.5
77.5°	197.9	214.4	219.7	224.4	227.3	230.2	227.3	224.4	219.7	214.4	197.9
80°	148.5	160.3	163.2	166.1	169.1	172.0	169.1	166.1	163.2	160.3	148.5
82.5°	104.4	112.6	115.6	117.9	118.5	119.1	118.5	117.9	115.6	112.6	104.4
85°	50.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	50.0
87.5°	21.0	24.2	27.4	29.2	31.1	30.1	31.1	29.2	27.4	24.2	21.0
90°	52.3	68.2	84.1	93.2	102.3	97.8	102.3	93.2	84.1	68.2	52.3
92.5°	105.1	131.9	151.5	167.8	175.1	174.2	175.1	167.8	151.5	131.9	105.1
95°	211.5	243.3	275.2	297.9	311.6	307.0	311.6	297.9	275.2	243.3	211.5
97.5°	326.1	368.9	404.4	425.7	439.4	448.5	439.4	425.7	404.4	368.9	326.1
100°	402.5	443.5	484.4	509.4	532.2	541.3	532.2	509.4	484.4	443.5	402.5
102.5°	464.4	518.1	562.7	589.5	608.6	617.7	608.6	589.5	562.7	518.1	464.4
105°	566.3	623.1	670.9	705.0	725.5	732.3	725.5	705.0	670.9	623.1	566.3
107.5°	668.2	726.9	771.0	808.7	833.7	848.3	833.7	808.7	771.0	726.9	668.2
110°	748.2	796.0	843.8	877.9	902.9	912.0	902.9	877.9	843.8	796.0	748.2



TEST NUMBER: P1435871

CATALOG NUMBER: SQ2W-FA-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	815.6	868.8	916.5	950.6	979.3	992.0	979.3	950.6	916.5	868.8	815.6
115°	909.7	980.2	1023.4	1055.3	1075.7	1087.1	1075.7	1055.3	1023.4	980.2	909.7
117.5°	987.9	1061.6	1108.9	1133.5	1143.0	1151.2	1143.0	1133.5	1108.9	1061.6	987.9
120°	1037.1	1105.3	1159.9	1191.7	1203.1	1207.6	1203.1	1191.7	1159.9	1105.3	1037.1
122.5°	1082.6	1147.1	1199.9	1239.0	1257.7	1262.2	1257.7	1239.0	1199.9	1147.1	1082.6
125°	1146.2	1207.6	1262.2	1300.9	1321.4	1332.7	1321.4	1300.9	1262.2	1207.6	1146.2
127.5°	1201.7	1268.1	1318.2	1353.2	1373.2	1382.3	1373.2	1353.2	1318.2	1268.1	1201.7
130°	1232.7	1300.9	1350.9	1389.6	1407.8	1416.9	1407.8	1389.6	1350.9	1300.9	1232.7
132.5°	1256.3	1328.2	1380.0	1415.1	1435.1	1444.2	1435.1	1415.1	1380.0	1328.2	1256.3
135°	1285.0	1360.0	1414.6	1448.7	1466.9	1476.0	1466.9	1448.7	1414.6	1360.0	1285.0
137.5°	1310.0	1378.2	1435.1	1471.0	1487.4	1493.3	1487.4	1471.0	1435.1	1378.2	1310.0
140°	1328.2	1387.3	1444.2	1478.3	1496.5	1498.7	1496.5	1478.3	1444.2	1387.3	1328.2
142.5°	1351.8	1398.2	1447.8	1481.9	1500.1	1504.2	1500.1	1481.9	1447.8	1398.2	1351.8
145°	1394.1	1421.4	1455.5	1487.4	1503.3	1507.8	1503.3	1487.4	1455.5	1421.4	1394.1
147.5°	1447.3	1456.0	1473.7	1494.6	1510.1	1513.3	1510.1	1494.6	1473.7	1456.0	1447.3
150°	1487.4	1485.1	1491.9	1505.6	1519.2	1516.9	1519.2	1505.6	1491.9	1485.1	1487.4
152.5°	1532.9	1519.7	1519.2	1525.6	1531.9	1531.5	1531.9	1525.6	1519.2	1519.7	1532.9
155°	1610.2	1585.2	1571.5	1567.0	1567.0	1564.7	1567.0	1567.0	1571.5	1585.2	1610.2
157.5°	1695.2	1660.2	1639.7	1628.8	1625.6	1620.6	1625.6	1628.8	1639.7	1660.2	1695.2
160°	1753.5	1714.8	1694.3	1676.1	1669.3	1662.5	1669.3	1676.1	1694.3	1714.8	1753.5
162.5°	1808.0	1771.2	1748.9	1732.5	1725.7	1715.3	1725.7	1732.5	1748.9	1771.2	1808.0
165°	1896.7	1858.1	1833.1	1819.4	1810.3	1801.2	1810.3	1819.4	1833.1	1858.1	1896.7
167.5°	1985.4	1943.1	1926.8	1911.3	1902.7	1886.3	1902.7	1911.3	1926.8	1943.1	1985.4
170°	2040.0	2001.4	1992.3	1978.6	1962.7	1944.5	1962.7	1978.6	1992.3	2001.4	2040.0
172.5°	2087.3	2061.4	2052.3	2038.7	2033.7	2019.1	2033.7	2038.7	2052.3	2061.4	2087.3
175°	2156.0	2135.5	2135.5	2133.3	2126.4	2112.8	2126.4	2133.3	2135.5	2135.5	2156.0
177.5°	2213.3	2202.4	2209.7	2209.7	2207.9	2195.1	2207.9	2209.7	2209.7	2202.4	2213.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1435871

CATALOG NUMBER: SQ2W-FA-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1707.0	1707.0	1707.0	1707.0
2.5°	1687.6	1696.4	1696.4	1696.4
5°	1625.4	1662.9	1671.7	1680.6
7.5°	1502.4	1585.9	1625.3	1664.7
10°	1415.9	1495.3	1574.7	1654.1
12.5°	1341.8	1413.5	1525.9	1638.2
15°	1281.4	1341.7	1468.1	1594.5
17.5°	1236.8	1275.6	1408.0	1540.3
20°	1226.2	1243.9	1376.2	1508.5
22.5°	1206.8	1206.2	1336.2	1466.2
25°	1173.3	1153.5	1268.1	1382.8
27.5°	1132.7	1099.8	1190.4	1280.9
30°	1102.7	1064.5	1141.0	1217.4
32.5°	1067.4	1027.4	1082.7	1138.0
35°	1018.9	971.9	995.4	1018.9
37.5°	972.2	915.1	907.5	899.8
40°	935.1	873.4	846.9	820.4
42.5°	899.8	835.7	806.9	778.1
45°	844.7	782.9	765.3	747.6
47.5°	790.4	727.2	714.3	701.3
50°	749.9	683.7	666.0	648.4
52.5°	704.0	632.5	621.9	611.4
55°	630.8	558.0	566.8	575.6
57.5°	555.8	477.0	484.6	492.3
60°	502.8	420.5	435.2	449.9
62.5°	462.3	382.3	392.3	402.3
65°	408.0	336.0	330.1	324.2
67.5°	357.7	292.9	273.5	254.1
70°	324.2	264.7	238.2	211.7
72.5°	287.2	238.2	211.7	185.3
75°	229.4	191.9	165.4	138.9
77.5°	170.3	144.1	122.3	100.6
80°	127.9	108.8	94.1	79.4
82.5°	90.9	77.6	65.3	52.9
85°	44.1	38.2	32.3	26.5
87.5°	18.8	15.0	10.8	6.7
90°	40.9	25.0	15.9	6.8
92.5°	88.2	61.4	43.2	25.0
95°	177.4	141.0	100.1	70.5
97.5°	282.5	223.8	183.3	134.6
100°	338.9	282.0	243.3	191.0
102.5°	400.7	353.0	299.7	247.4
105°	511.7	452.6	391.2	332.0
107.5°	614.5	549.5	475.8	422.6
110°	680.0	609.5	532.2	484.4



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CATALOG NUMBER: SQ2W-FA-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	743.7	671.4	592.2	544.5
115°	830.1	750.5	677.7	636.8
117.5°	913.3	831.5	754.6	722.3
120°	964.3	882.4	807.4	782.3
122.5°	1006.1	926.1	856.5	846.0
125°	1068.9	987.0	927.9	941.5
127.5°	1119.9	1044.8	1007.5	1038.0
130°	1150.8	1084.8	1062.1	1105.3
132.5°	1178.1	1126.7	1116.7	1176.3
135°	1219.0	1189.4	1198.5	1280.4
137.5°	1267.7	1256.3	1286.8	1390.0
140°	1298.6	1305.4	1348.6	1464.6
142.5°	1340.5	1356.4	1412.3	1535.6
145°	1405.5	1439.6	1512.4	1635.2
147.5°	1479.2	1523.3	1613.4	1739.4
150°	1528.3	1585.2	1680.7	1801.2
152.5°	1584.7	1643.4	1738.9	1861.3
155°	1671.6	1737.5	1837.6	1942.2
157.5°	1760.3	1827.6	1923.1	2014.5
160°	1814.9	1887.6	1974.1	2058.2
162.5°	1876.7	1944.0	2019.6	2094.6
165°	1967.2	2021.8	2083.2	2146.9
167.5°	2043.2	2088.7	2136.9	2186.5
170°	2092.3	2128.7	2169.7	2208.3
172.5°	2134.2	2163.3	2193.3	2226.5
175°	2190.1	2206.0	2224.2	2244.7
177.5°	2233.3	2238.8	2244.2	2253.3
180°	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1435871
 CATALOG NUMBER: SQ2W-FA-K-150U-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	16.81	17.59	17.86	18.64	20.05	18.01	18.78	19.06	19.83	21.25
	3H	17.90	18.59	18.95	19.65	21.08	19.25	19.94	20.30	21.00	22.43
	4H	18.24	18.90	19.31	19.96	21.40	19.64	20.29	20.70	21.35	22.79
	6H	18.40	19.00	19.48	20.07	21.52	19.79	20.39	20.87	21.46	22.91
	8H	18.43	19.01	19.51	20.09	21.54	19.81	20.39	20.89	21.47	22.92
	12H	18.43	18.97	19.51	20.04	21.52	19.79	20.34	20.88	21.41	22.89
4H	2H	17.67	18.33	18.74	19.39	20.83	18.58	19.24	19.66	20.30	21.74
	3H	19.05	19.60	20.13	20.68	22.14	20.04	20.59	21.12	21.67	23.13
	4H	19.50	20.00	20.59	21.08	22.56	20.51	21.01	21.60	22.09	23.57
	6H	19.73	20.16	20.82	21.26	22.73	20.73	21.16	21.82	22.26	23.73
	8H	19.78	20.18	20.88	21.28	22.76	20.78	21.18	21.87	22.27	23.76
	12H	19.78	20.14	20.89	21.25	22.74	20.76	21.12	21.87	22.23	23.72
8H	4H	19.88	20.28	20.97	21.37	22.86	20.70	21.10	21.80	22.20	23.68
	6H	20.23	20.56	21.34	21.69	23.18	21.01	21.34	22.13	22.48	23.96
	8H	20.34	20.63	21.47	21.75	23.25	21.11	21.40	22.23	22.51	24.02
	12H	20.38	20.63	21.50	21.74	23.28	21.12	21.37	22.24	22.48	24.03
12H	4H	19.88	20.24	20.99	21.35	22.84	20.67	21.03	21.78	22.13	23.63
	6H	20.29	20.58	21.42	21.70	23.21	21.03	21.32	22.15	22.44	23.94
	8H	20.44	20.69	21.56	21.80	23.35	21.14	21.39	22.26	22.51	24.05