

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: P938565

Luminaire Tested: SQ4-FB-150U-125D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938565
REPORT IS A COMBINATION OF REPORTS P933648 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-150U-125D-93050-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

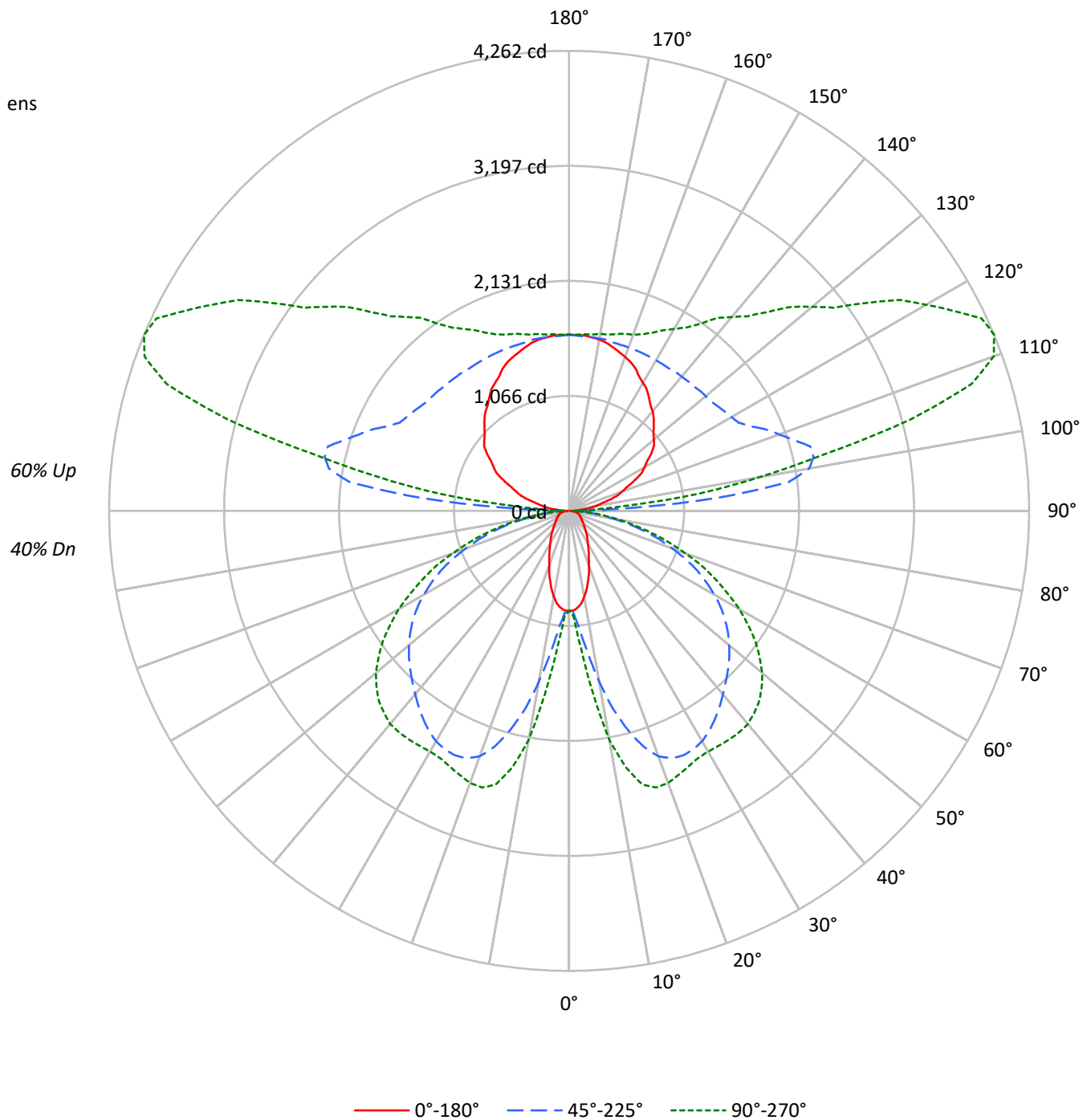
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17740.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 166.4
Input Voltage (V): NR
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

TEST NUMBER: P938565
CATALOG NUMBER: SQ4-FB-150U-125D-93050-1D-UNV-STD-W-8-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P938565

CATALOG NUMBER: SQ4-FB-150U-125D-93050-1D-UNV-STD-W-8-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	0.7
10°-20°	530.0	3.0
20°-30°	927.1	5.2
30°-40°	1193.4	6.7
40°-50°	1333.0	7.5
50°-60°	1276.7	7.2
60°-70°	1011.8	5.7
70°-80°	595.0	3.4
80°-90°	171.5	1.0
90°-100°	795.8	4.5
100°-110°	2092.1	11.8
110°-120°	2169.2	12.2
120°-130°	1740.0	9.8
130°-140°	1365.3	7.7
140°-150°	1047.9	5.9
150°-160°	754.7	4.3
160°-170°	461.7	2.6
170°-180°	156.0	0.9
0°-30°	1576.7	8.9
0°-40°	2770.2	15.6
0°-60°	5379.9	30.3
0°-90°	7158.2	40.3
90°-120°	5057.0	28.5
90°-150°	9210.2	51.9
90°-180°	10583.0	59.7
0°-180°	17740.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	901	966	1088	1231	1275	83
15°	675	1246	2099	2545	2625	188
25°	431	1412	2500	2610	2613	199
35°	291	1350	2354	2488	2586	182
45°	199	1076	2081	2384	2491	154
55°	143	684	1766	2051	2108	130
65°	113	363	1311	1474	1495	112
75°	83	223	719	791	794	87
85°	30	68	178	196	199	32
90°	11	31	83	42	42	11
95°	105	412	1371	707	481	117
105°	377	571	2313	3511	3276	400
115°	669	813	1853	3696	4218	661
125°	931	1044	1685	2848	3359	827
135°	1110	1222	1632	2299	2606	859
145°	1287	1370	1612	1961	2114	806
155°	1455	1496	1612	1769	1821	669
165°	1570	1591	1612	1675	1696	443
175°	1632	1632	1623	1643	1643	155
180°	1632	1632	1632	1632	1632	



TEST NUMBER: P938565
 CATALOG NUMBER: SQ4-FB-150U-125D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5
2.5°	924.5	924.5	930.5	933.5	939.3	942.3	948.3	954.3	972.1	975.1	981.0
5°	900.7	912.6	951.3	966.1	1007.8	1064.2	1088.0	1126.7	1206.9	1230.7	1245.5
7.5°	865.0	891.8	986.9	1010.7	1114.7	1263.4	1325.8	1409.1	1536.9	1599.3	1649.9
10°	808.6	865.0	1034.5	1090.9	1260.4	1486.3	1602.3	1718.2	1911.4	1997.7	2030.4
12.5°	746.1	838.3	1085.1	1162.3	1406.1	1736.0	1875.8	2003.6	2223.6	2339.5	2357.4
15°	674.8	799.7	1132.6	1245.5	1560.7	1944.1	2098.7	2256.3	2461.4	2544.6	2565.4
17.5°	612.4	769.9	1177.2	1296.1	1679.6	2131.5	2288.9	2419.8	2586.2	2642.7	2657.6
20°	535.1	722.4	1206.9	1361.5	1804.5	2268.2	2419.8	2520.8	2633.8	2669.5	2675.4
22.5°	478.6	671.8	1224.8	1385.3	1887.6	2351.4	2479.3	2559.5	2636.7	2648.7	2651.7
25°	431.1	615.3	1221.8	1412.0	1959.1	2402.0	2500.1	2559.5	2604.1	2610.0	2610.0
27.5°	386.5	552.9	1209.9	1418.0	2012.5	2413.8	2491.1	2532.8	2553.6	2565.4	2565.4
30°	347.8	493.4	1180.2	1406.1	2036.3	2402.0	2464.3	2485.2	2506.0	2523.8	2532.8
32.5°	318.1	437.0	1135.6	1382.3	2039.2	2372.2	2416.8	2428.7	2458.5	2500.1	2514.9
35°	291.3	380.5	1085.1	1349.6	2021.4	2324.7	2354.4	2366.2	2425.7	2488.1	2509.0
37.5°	264.5	338.8	1019.6	1293.1	1994.7	2268.2	2288.9	2309.8	2402.0	2476.3	2500.1
40°	237.8	303.2	942.3	1230.7	1953.1	2199.8	2217.6	2250.3	2372.2	2458.5	2482.2
42.5°	217.0	273.5	859.2	1165.3	1899.6	2122.5	2149.3	2196.8	2336.5	2428.7	2455.5
45°	199.2	243.7	769.9	1076.1	1831.2	2042.2	2080.9	2146.3	2294.9	2384.1	2407.9
47.5°	181.4	222.9	677.8	984.0	1756.9	1961.9	2012.5	2086.8	2238.4	2324.7	2345.5
50°	166.4	202.2	585.7	885.9	1676.6	1875.8	1935.2	2012.5	2167.1	2247.4	2274.1
52.5°	154.6	184.3	499.4	787.7	1584.5	1786.6	1855.0	1935.2	2080.9	2158.2	2176.0
55°	142.7	169.4	425.1	683.8	1489.3	1691.4	1765.8	1843.1	1985.8	2051.2	2063.0
57.5°	136.8	157.6	362.7	585.7	1388.2	1584.5	1667.7	1739.0	1872.8	1923.3	1935.2
60°	127.8	148.6	315.1	502.4	1278.3	1483.4	1554.7	1626.1	1739.0	1780.7	1789.5
62.5°	118.9	142.7	279.5	422.1	1165.3	1364.4	1435.8	1501.2	1596.3	1626.1	1637.9
65°	112.9	136.8	252.7	362.7	1049.4	1239.6	1311.0	1367.4	1444.7	1474.5	1480.4
67.5°	107.0	130.8	231.9	312.1	933.5	1114.7	1168.2	1221.8	1281.3	1311.0	1313.9
70°	98.1	124.9	214.0	276.5	814.5	972.1	1016.6	1073.1	1120.7	1135.6	1144.5
72.5°	92.1	115.9	202.2	249.7	692.6	835.4	877.0	909.7	951.3	966.1	966.1
75°	83.3	104.1	190.2	222.9	567.8	683.8	719.4	752.1	784.8	790.7	781.9
77.5°	74.3	92.1	163.5	187.3	442.9	541.0	570.7	588.6	615.3	621.3	624.3
80°	62.4	80.3	127.8	145.6	321.0	398.3	419.1	434.1	457.8	457.8	463.7
82.5°	47.6	62.4	92.1	104.1	217.0	273.5	291.3	300.2	315.1	315.1	315.1
85°	29.7	38.6	59.5	68.3	130.8	166.4	178.4	181.4	193.2	196.2	196.2
87.5°	14.8	20.8	38.6	41.6	68.3	86.2	86.2	92.1	92.1	89.1	86.2
90°	11.0	19.8	28.5	30.7	48.2	71.6	83.3	74.0	55.5	41.6	41.6
92.5°	43.8	118.3	192.9	211.5	297.3	411.7	468.9	411.0	295.1	208.2	199.9
95°	105.2	241.5	377.8	411.9	731.4	1157.5	1370.6	1223.0	928.0	706.7	681.6
97.5°	181.9	302.1	422.5	452.5	985.4	1695.8	2051.0	1957.7	1771.3	1631.4	1583.7
100°	241.0	350.1	459.2	486.5	1077.8	1866.0	2260.2	2267.1	2280.7	2290.9	2234.0
102.5°	291.4	393.2	494.9	520.4	1120.1	1919.6	2319.4	2438.3	2675.8	2854.0	2805.4
105°	376.9	463.0	549.3	570.8	1151.5	1925.7	2312.8	2579.2	3111.9	3511.4	3485.3
107.5°	464.5	544.9	625.2	645.3	1157.3	1840.0	2181.3	2552.9	3296.0	3853.3	3859.6
110°	523.7	596.3	668.8	686.9	1148.6	1764.1	2071.8	2487.2	3317.9	3940.9	3968.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	581.8	650.9	720.0	737.3	1148.9	1697.7	1972.0	2397.1	3247.3	3885.0	3926.9
115°	669.4	733.2	797.0	813.0	1159.5	1621.6	1852.7	2262.2	3081.2	3695.5	3753.5
117.5°	756.0	813.9	871.9	886.4	1181.1	1574.0	1770.5	2140.1	2879.2	3433.6	3498.0
120°	806.4	860.9	915.5	929.1	1198.6	1557.9	1737.6	2075.3	2750.8	3257.3	3319.8
122.5°	855.6	910.7	965.7	979.5	1223.8	1549.6	1712.4	2016.5	2624.7	3080.8	3142.6
125°	931.3	981.4	1031.6	1044.1	1257.7	1542.6	1685.0	1943.3	2459.9	2847.5	2904.3
127.5°	992.7	1043.2	1093.9	1106.6	1291.7	1538.6	1662.0	1883.8	2327.4	2660.1	2708.1
130°	1025.5	1080.0	1134.6	1148.2	1316.6	1541.0	1653.2	1850.7	2245.6	2541.8	2586.2
132.5°	1059.5	1114.0	1168.6	1182.2	1336.7	1542.6	1645.6	1822.3	2175.8	2441.0	2480.7
135°	1109.8	1159.5	1209.2	1221.6	1358.6	1541.2	1632.4	1780.5	2076.6	2298.6	2332.8
137.5°	1161.4	1210.6	1259.7	1272.0	1391.4	1550.6	1630.3	1755.5	2005.7	2193.4	2221.4
140°	1204.1	1249.4	1294.6	1305.9	1411.5	1552.2	1622.6	1730.7	1946.9	2109.1	2135.2
142.5°	1236.9	1278.8	1320.7	1331.2	1428.3	1557.8	1622.6	1717.5	1907.4	2049.9	2072.4
145°	1287.3	1323.9	1360.4	1369.5	1450.3	1557.8	1611.6	1689.2	1844.6	1961.2	1978.2
147.5°	1337.7	1373.3	1408.9	1417.8	1482.4	1568.6	1611.6	1672.7	1794.9	1886.6	1900.7
150°	1370.6	1402.7	1434.9	1442.9	1499.1	1574.1	1611.6	1663.2	1766.4	1843.9	1855.3
152.5°	1404.6	1428.9	1453.3	1459.4	1510.2	1577.8	1611.6	1655.7	1743.8	1809.9	1818.5
155°	1455.0	1473.0	1491.0	1495.5	1534.2	1585.8	1611.6	1646.6	1716.8	1769.4	1775.1
157.5°	1492.2	1509.8	1527.3	1531.7	1558.3	1593.9	1611.6	1638.9	1693.5	1734.4	1738.4
160°	1517.4	1531.1	1544.7	1548.1	1569.3	1597.5	1611.6	1635.0	1681.8	1716.8	1719.1
162.5°	1542.6	1552.8	1563.1	1565.7	1580.9	1601.4	1611.6	1631.4	1670.8	1700.4	1702.6
165°	1570.0	1579.2	1588.5	1590.8	1597.7	1606.9	1611.6	1625.7	1654.0	1675.2	1677.5
167.5°	1595.2	1599.6	1604.0	1605.1	1610.9	1618.7	1622.6	1631.8	1650.3	1664.2	1665.2
170°	1611.6	1616.0	1620.4	1621.5	1621.9	1622.3	1622.6	1631.8	1650.3	1664.2	1664.2
172.5°	1620.4	1621.3	1622.3	1622.6	1622.6	1622.6	1622.6	1629.9	1644.4	1655.4	1654.5
175°	1632.4	1632.4	1632.4	1632.4	1629.2	1624.8	1622.6	1627.2	1636.5	1643.4	1643.4
177.5°	1632.4	1632.4	1632.4	1632.4	1629.9	1626.4	1624.8	1628.5	1635.7	1641.2	1640.2
180°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4



TEST NUMBER: P938565

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	924.5	924.5
2.5°	986.9	981.0
5°	1269.3	1275.3
7.5°	1709.3	1706.4
10°	2125.5	2152.3
12.5°	2428.7	2434.7
15°	2613.0	2624.9
17.5°	2684.4	2687.3
20°	2687.3	2681.4
22.5°	2654.7	2648.7
25°	2616.0	2613.0
27.5°	2580.3	2583.3
30°	2565.4	2574.4
32.5°	2565.4	2580.3
35°	2571.4	2586.2
37.5°	2568.4	2586.2
40°	2556.6	2577.4
42.5°	2523.8	2538.7
45°	2473.3	2491.1
47.5°	2407.9	2419.8
50°	2324.7	2336.5
52.5°	2220.6	2223.6
55°	2095.7	2107.7
57.5°	1961.9	1964.9
60°	1813.3	1822.3
62.5°	1655.8	1655.8
65°	1489.3	1495.3
67.5°	1316.9	1331.8
70°	1141.5	1144.5
72.5°	969.1	969.1
75°	790.7	793.7
77.5°	621.3	621.3
80°	460.8	463.7
82.5°	318.1	324.0
85°	199.2	199.2
87.5°	92.1	83.3
90°	41.6	41.6
92.5°	166.8	133.7
95°	581.3	481.0
97.5°	1392.7	1201.9
100°	2006.7	1779.3
102.5°	2610.6	2415.9
105°	3380.6	3275.9
107.5°	3884.9	3910.2
110°	4077.2	4186.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	4094.4	4261.9
115°	3985.8	4218.0
117.5°	3755.6	4013.2
120°	3570.1	3820.3
122.5°	3389.5	3636.3
125°	3131.8	3359.2
127.5°	2900.0	3091.8
130°	2763.4	2940.6
132.5°	2639.4	2798.2
135°	2469.6	2606.4
137.5°	2333.4	2445.4
140°	2239.9	2344.6
142.5°	2162.5	2252.6
145°	2046.4	2114.5
147.5°	1957.2	2013.7
150°	1901.2	1946.9
152.5°	1853.1	1887.7
155°	1798.1	1820.9
157.5°	1754.4	1770.5
160°	1728.4	1737.6
162.5°	1711.3	1720.1
165°	1686.8	1696.0
167.5°	1669.1	1673.0
170°	1664.2	1664.2
172.5°	1651.2	1647.8
175°	1643.4	1643.4
177.5°	1636.3	1632.4
180°	1632.4	1632.4



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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	5.11	5.92	6.14	6.96	8.36	18.29	19.10	19.32	20.14	21.54
	3H	5.82	6.54	6.85	7.59	9.01	20.13	20.85	21.17	21.90	23.32
	4H	6.11	6.80	7.16	7.85	9.28	20.77	21.46	21.82	22.51	23.94
	6H	6.36	6.99	7.42	8.05	9.49	21.20	21.83	22.26	22.89	24.33
	8H	6.42	7.03	7.49	8.10	9.54	21.32	21.92	22.38	22.99	24.43
	12H	6.44	7.02	7.51	8.08	9.54	21.38	21.96	22.45	23.03	24.48
4H	2H	12.32	13.01	13.38	14.06	15.49	18.56	19.25	19.62	20.30	21.73
	3H	13.88	14.46	14.95	15.54	16.98	20.60	21.18	21.67	22.26	23.70
	4H	13.98	14.51	15.05	15.58	17.04	21.36	21.89	22.44	22.96	24.43
	6H	13.98	14.44	15.07	15.53	16.99	21.90	22.36	22.98	23.45	24.91
	8H	13.96	14.39	15.04	15.47	16.94	22.06	22.49	23.14	23.57	25.05
	12H	13.91	14.30	15.01	15.40	16.88	22.15	22.54	23.25	23.64	25.11
8H	4H	15.42	15.84	16.50	16.93	18.40	21.42	21.85	22.50	22.93	24.40
	6H	15.66	16.01	16.76	17.14	18.61	22.05	22.40	23.15	23.53	25.00
	8H	15.67	15.98	16.79	17.09	18.58	22.27	22.58	23.38	23.69	25.17
	12H	15.64	15.91	16.76	17.02	18.54	22.41	22.68	23.52	23.79	25.31
12H	4H	15.56	15.94	16.66	17.04	18.52	21.37	21.76	22.47	22.86	24.33
	6H	15.92	16.23	17.03	17.33	18.82	22.03	22.34	23.14	23.45	24.94
	8H	15.98	16.25	17.10	17.36	18.89	22.26	22.53	23.37	23.64	25.16