

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: P937999

Luminaire Tested: SQ4-FB-125U-075D-B35-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937999  
REPORT IS A COMBINATION OF REPORTS P933606 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-125U-075D-B35-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

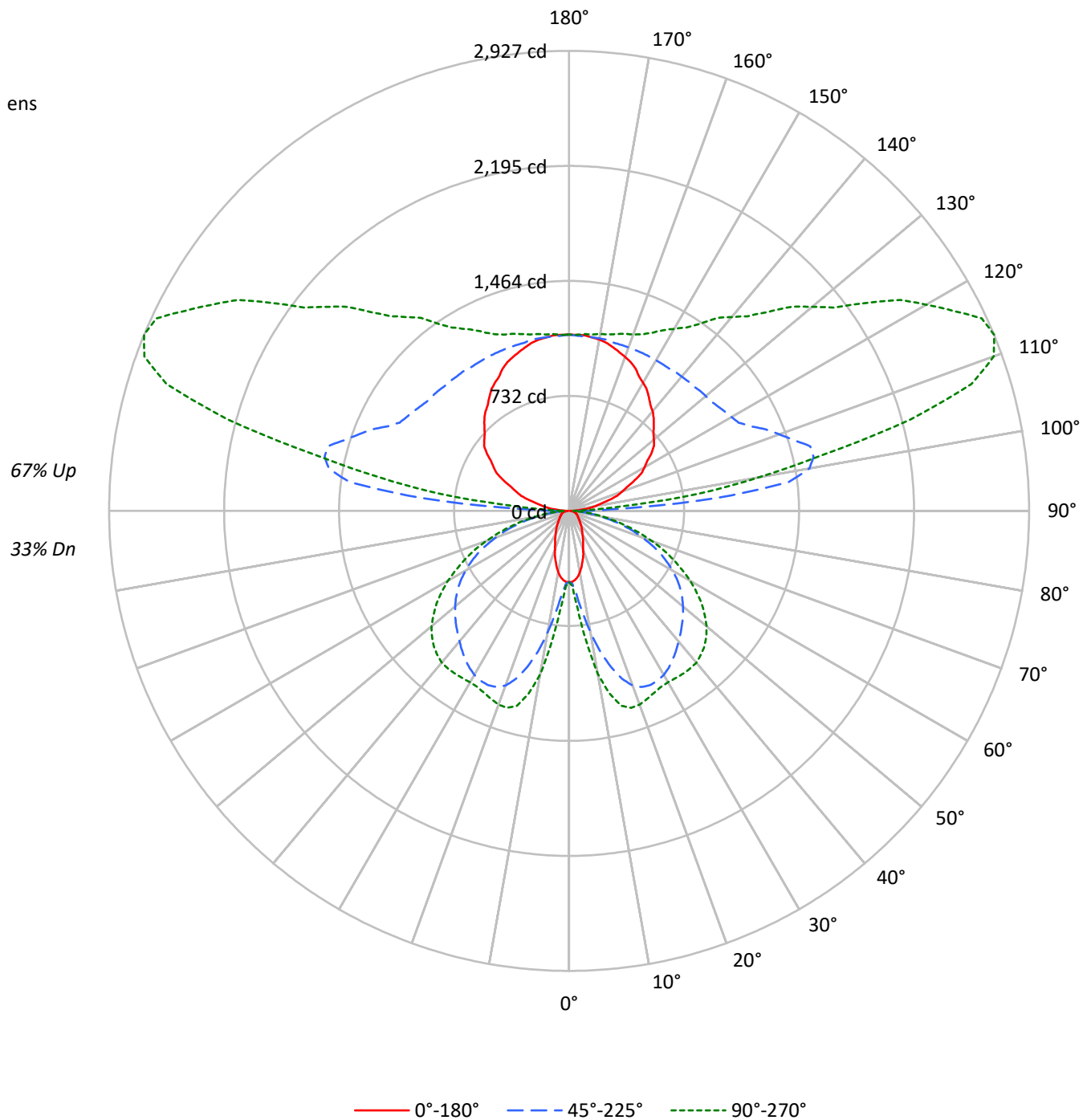
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10770.3 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 83.4  
Input Voltage (V): NR  
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: P937999  
CATALOG NUMBER: SQ4-FB-125U-075D-B35-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot







TEST NUMBER: P937999

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	0.5
10°-20°	259.2	2.4
20°-30°	453.3	4.2
30°-40°	583.6	5.4
40°-50°	651.8	6.1
50°-60°	624.3	5.8
60°-70°	494.7	4.6
70°-80°	290.9	2.7
80°-90°	85.1	0.8
90°-100°	546.6	5.1
100°-110°	1437.0	13.3
110°-120°	1490.0	13.8
120°-130°	1195.2	11.1
130°-140°	937.8	8.7
140°-150°	719.8	6.7
150°-160°	518.4	4.8
160°-170°	317.2	2.9
170°-180°	107.2	1.0
0°-30°	771.0	7.2
0°-40°	1354.5	12.6
0°-60°	2630.6	24.4
0°-90°	3501.3	32.5
90°-120°	3473.6	32.3
90°-150°	6326.3	58.7
90°-180°	7269.0	67.5
0°-180°	10770.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	440	472	532	602	624	41
15°	330	609	1026	1244	1284	92
25°	211	690	1222	1276	1278	97
35°	142	660	1151	1217	1265	89
45°	97	526	1017	1166	1218	75
55°	70	334	863	1003	1030	64
65°	55	177	641	721	731	55
75°	41	109	352	387	388	43
85°	14	33	87	96	97	15
90°	8	21	57	29	29	7
95°	72	283	942	485	330	80
105°	259	392	1589	2412	2250	274
115°	460	558	1273	2538	2897	454
125°	640	717	1158	1956	2307	568
135°	762	839	1121	1579	1790	590
145°	884	941	1107	1347	1452	554
155°	999	1027	1107	1215	1251	459
165°	1078	1093	1107	1151	1165	304
175°	1121	1121	1114	1129	1129	106
180°	1121	1121	1121	1121	1121	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	452.0	452.0	454.9	456.4	459.3	460.8	463.7	466.6	475.3	476.7	479.7
5°	440.4	446.2	465.1	472.4	492.7	520.4	532.0	550.9	590.1	601.7	609.0
7.5°	423.0	436.0	482.6	494.2	545.1	617.7	648.3	689.0	751.5	782.0	806.7
10°	395.4	423.0	505.8	533.4	616.3	726.8	783.4	840.1	934.6	976.8	992.7
12.5°	364.8	409.9	530.5	568.3	687.5	848.8	917.2	979.7	1087.2	1144.0	1152.7
15°	329.9	391.0	553.8	609.0	763.1	950.6	1026.2	1103.3	1203.6	1244.3	1254.5
17.5°	299.4	376.5	575.6	633.7	821.2	1042.2	1119.3	1183.2	1264.6	1292.3	1299.5
20°	261.6	353.2	590.1	665.7	882.3	1109.1	1183.2	1232.7	1287.9	1305.3	1308.2
22.5°	234.0	328.5	598.8	677.3	923.0	1149.8	1212.3	1251.6	1289.4	1295.2	1296.6
25°	210.8	300.9	597.4	690.4	957.9	1174.5	1222.5	1251.6	1273.4	1276.3	1276.3
27.5°	189.0	270.4	591.6	693.3	984.0	1180.3	1218.1	1238.5	1248.7	1254.5	1254.5
30°	170.1	241.3	577.0	687.5	995.6	1174.5	1205.0	1215.2	1225.4	1234.1	1238.5
32.5°	155.5	213.7	555.2	675.9	997.1	1160.0	1181.8	1187.6	1202.1	1222.5	1229.8
35°	142.4	186.0	530.5	659.9	988.4	1136.7	1151.3	1157.1	1186.2	1216.7	1226.9
37.5°	129.4	165.7	498.6	632.3	975.3	1109.1	1119.3	1129.5	1174.5	1210.9	1222.5
40°	116.3	148.3	460.8	601.7	954.9	1075.6	1084.3	1100.3	1160.0	1202.1	1213.8
42.5°	106.1	133.7	420.1	569.8	928.8	1037.8	1050.9	1074.1	1142.5	1187.6	1200.7
45°	97.4	119.2	376.5	526.2	895.4	998.6	1017.4	1049.4	1122.2	1165.8	1177.4
47.5°	88.7	109.0	331.4	481.1	859.0	959.3	984.0	1020.4	1094.5	1136.7	1146.9
50°	81.4	98.8	286.3	433.1	819.8	917.2	946.2	984.0	1059.6	1098.8	1112.0
52.5°	75.6	90.1	244.2	385.2	774.7	873.6	907.0	946.2	1017.4	1055.2	1064.0
55°	69.8	82.8	207.9	334.3	728.2	827.0	863.4	901.2	970.9	1002.9	1008.7
57.5°	66.9	77.0	177.3	286.3	678.8	774.7	815.4	850.3	915.7	940.4	946.2
60°	62.5	72.7	154.1	245.6	625.0	725.3	760.2	795.1	850.3	870.6	875.0
62.5°	58.1	69.8	136.6	206.4	569.8	667.2	702.0	734.0	780.5	795.1	800.9
65°	55.2	66.9	123.5	177.3	513.1	606.1	641.0	668.6	706.4	720.9	723.8
67.5°	52.3	64.0	113.4	152.6	456.4	545.1	571.2	597.4	626.5	641.0	642.4
70°	48.0	61.0	104.7	135.2	398.3	475.3	497.1	524.7	548.0	555.2	559.6
72.5°	45.1	56.7	98.8	122.1	338.7	408.4	428.8	444.8	465.1	472.4	472.4
75°	40.7	50.9	93.0	109.0	277.6	334.3	351.7	367.7	383.7	386.6	382.3
77.5°	36.3	45.1	79.9	91.6	216.6	264.5	279.1	287.8	300.9	303.8	305.2
80°	30.5	39.2	62.5	71.2	157.0	194.8	204.9	212.2	223.8	223.8	226.7
82.5°	23.3	30.5	45.1	50.9	106.1	133.7	142.4	146.8	154.1	154.1	154.1
85°	14.5	18.9	29.1	33.4	64.0	81.4	87.2	88.7	94.5	95.9	95.9
87.5°	7.3	10.2	18.9	20.3	33.4	42.2	42.2	45.1	45.1	43.6	42.2
90°	7.6	13.6	19.6	21.0	33.0	49.1	57.2	50.8	38.1	28.6	28.6
92.5°	30.1	81.3	132.5	145.3	204.2	282.8	322.1	282.3	202.7	143.0	137.3
95°	72.3	165.9	259.5	282.9	502.4	795.2	941.5	840.1	637.4	485.4	468.1
97.5°	124.9	207.5	290.1	310.8	676.7	1164.8	1408.8	1344.8	1216.7	1120.6	1087.8
100°	165.6	240.5	315.4	334.1	740.2	1281.8	1552.5	1557.2	1566.6	1573.6	1534.5
102.5°	200.2	270.1	340.0	357.5	769.4	1318.5	1593.1	1674.7	1838.0	1960.4	1927.0
105°	258.9	318.1	377.2	392.1	790.9	1322.8	1588.7	1771.6	2137.5	2411.9	2393.9
107.5°	319.1	374.2	429.5	443.2	795.0	1263.9	1498.4	1753.6	2264.0	2646.7	2651.1
110°	359.7	409.5	459.3	471.8	788.9	1211.6	1423.1	1708.3	2279.0	2707.0	2725.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	399.6	447.1	494.6	506.5	789.2	1166.1	1354.6	1646.5	2230.5	2668.5	2697.3
115°	459.8	503.6	547.5	558.4	796.5	1113.9	1272.6	1553.9	2116.5	2538.4	2578.3
117.5°	519.3	559.1	598.8	608.8	811.2	1081.1	1216.1	1470.0	1977.7	2358.5	2402.7
120°	553.9	591.4	628.8	638.2	823.3	1070.1	1193.5	1425.5	1889.4	2237.3	2280.3
122.5°	587.8	625.6	663.4	672.8	840.6	1064.3	1176.3	1385.2	1802.9	2116.2	2158.5
125°	639.6	674.1	708.5	717.2	864.0	1059.6	1157.5	1334.9	1689.7	1955.9	1995.0
127.5°	681.8	716.6	751.4	760.1	887.3	1056.9	1141.7	1294.0	1598.8	1827.2	1860.2
130°	704.4	741.9	779.3	788.7	904.3	1058.4	1135.6	1271.2	1542.5	1745.9	1776.4
132.5°	727.7	765.2	802.6	812.0	918.1	1059.6	1130.3	1251.8	1494.6	1676.7	1703.9
135°	762.3	796.4	830.5	839.1	933.1	1058.6	1121.3	1223.0	1426.4	1578.9	1602.3
137.5°	797.7	831.5	865.3	873.7	955.7	1065.1	1119.8	1205.7	1377.6	1506.6	1525.8
140°	827.0	858.1	889.3	897.0	969.5	1066.2	1114.5	1188.8	1337.3	1448.7	1466.7
142.5°	849.6	878.4	907.2	914.3	981.1	1070.1	1114.5	1179.8	1310.2	1408.1	1423.6
145°	884.2	909.3	934.4	940.7	996.1	1070.1	1107.0	1160.4	1267.1	1347.1	1358.8
147.5°	918.9	943.3	967.7	973.8	1018.2	1077.4	1107.0	1148.9	1233.0	1295.9	1305.6
150°	941.5	963.6	985.6	991.1	1029.8	1081.2	1107.0	1142.5	1213.4	1266.6	1274.4
152.5°	964.7	981.5	998.3	1002.4	1037.3	1083.7	1107.0	1137.2	1197.8	1243.2	1249.1
155°	999.4	1011.8	1024.1	1027.2	1053.8	1089.3	1107.0	1131.1	1179.3	1215.4	1219.4
157.5°	1025.0	1037.0	1049.0	1052.0	1070.4	1094.8	1107.0	1125.7	1163.2	1191.3	1194.0
160°	1042.3	1051.7	1061.1	1063.4	1077.9	1097.3	1107.0	1123.1	1155.1	1179.3	1180.8
162.5°	1059.6	1066.6	1073.7	1075.4	1086.0	1100.0	1107.0	1120.6	1147.6	1167.9	1169.5
165°	1078.4	1084.8	1091.2	1092.7	1097.5	1103.8	1107.0	1116.7	1136.2	1150.7	1152.2
167.5°	1095.7	1098.7	1101.8	1102.5	1106.5	1111.8	1114.5	1120.9	1133.6	1143.1	1143.8
170°	1107.0	1110.0	1113.0	1113.8	1114.1	1114.4	1114.5	1120.9	1133.6	1143.1	1143.1
172.5°	1113.0	1113.7	1114.4	1114.5	1114.5	1114.5	1114.5	1119.6	1129.6	1137.1	1136.5
175°	1121.3	1121.3	1121.3	1121.3	1119.1	1116.1	1114.5	1117.7	1124.1	1128.9	1128.9
177.5°	1121.3	1121.3	1121.3	1121.3	1119.6	1117.2	1116.0	1118.5	1123.6	1127.3	1126.7
180°	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	452.0	452.0
2.5°	482.6	479.7
5°	620.6	623.6
7.5°	835.8	834.3
10°	1039.3	1052.3
12.5°	1187.6	1190.5
15°	1277.7	1283.5
17.5°	1312.6	1314.1
20°	1314.1	1311.2
22.5°	1298.1	1295.2
25°	1279.2	1277.7
27.5°	1261.7	1263.2
30°	1254.5	1258.8
32.5°	1254.5	1261.7
35°	1257.4	1264.6
37.5°	1255.9	1264.6
40°	1250.1	1260.3
42.5°	1234.1	1241.4
45°	1209.4	1218.1
47.5°	1177.4	1183.2
50°	1136.7	1142.5
52.5°	1085.8	1087.2
55°	1024.7	1030.5
57.5°	959.3	960.8
60°	886.6	891.0
62.5°	809.6	809.6
65°	728.2	731.1
67.5°	643.9	651.2
70°	558.1	559.6
72.5°	473.8	473.8
75°	386.6	388.1
77.5°	303.8	303.8
80°	225.3	226.7
82.5°	155.5	158.4
85°	97.4	97.4
87.5°	45.1	40.7
90°	28.6	28.6
92.5°	114.5	91.8
95°	399.2	330.3
97.5°	956.7	825.6
100°	1378.4	1222.2
102.5°	1793.1	1659.4
105°	2322.0	2250.1
107.5°	2668.4	2685.9
110°	2800.6	2875.5





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	2812.3	2927.4
115°	2737.8	2897.3
117.5°	2579.7	2756.6
120°	2452.2	2624.1
122.5°	2328.1	2497.7
125°	2151.2	2307.4
127.5°	1992.0	2123.8
130°	1898.2	2019.9
132.5°	1813.0	1922.0
135°	1696.3	1790.3
137.5°	1602.7	1679.7
140°	1538.6	1610.5
142.5°	1485.4	1547.3
145°	1405.6	1452.4
147.5°	1344.5	1383.2
150°	1305.9	1337.3
152.5°	1272.9	1296.6
155°	1235.1	1250.8
157.5°	1205.0	1216.1
160°	1187.2	1193.5
162.5°	1175.5	1181.5
165°	1158.6	1164.9
167.5°	1146.4	1149.1
170°	1143.1	1143.1
172.5°	1134.2	1131.9
175°	1128.9	1128.9
177.5°	1124.0	1121.3
180°	1121.3	1121.3



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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	2.71	3.46	3.80	4.55	6.05	15.88	16.62	16.96	17.71	19.21
	3H	3.41	4.08	4.50	5.18	6.69	17.70	18.37	18.80	19.47	20.98
	4H	3.70	4.34	4.81	5.44	6.96	18.34	18.97	19.44	20.07	21.59
	6H	3.94	4.53	5.06	5.63	7.17	18.76	19.34	19.87	20.45	21.98
	8H	4.01	4.57	5.13	5.69	7.21	18.87	19.43	19.99	20.55	22.08
	12H	4.02	4.55	5.15	5.67	7.22	18.93	19.46	20.06	20.58	22.13
4H	2H	9.90	10.54	11.02	11.64	13.16	16.14	16.77	17.25	17.87	19.39
	3H	11.46	11.99	12.58	13.12	14.65	18.17	18.70	19.29	19.82	21.36
	4H	11.55	12.04	12.68	13.16	14.71	18.92	19.41	20.05	20.53	22.08
	6H	11.55	11.97	12.69	13.11	14.66	19.45	19.87	20.58	21.01	22.56
	8H	11.53	11.92	12.66	13.05	14.61	19.61	20.00	20.74	21.13	22.69
	12H	11.48	11.83	12.63	12.98	14.55	19.69	20.05	20.84	21.19	22.76
8H	4H	12.98	13.37	14.11	14.51	16.07	18.97	19.37	20.11	20.50	22.06
	6H	13.22	13.54	14.37	14.72	16.28	19.59	19.92	20.75	21.09	22.65
	8H	13.24	13.52	14.39	14.67	16.25	19.81	20.09	20.97	21.25	22.83
	12H	13.20	13.45	14.36	14.60	16.21	19.95	20.20	21.11	21.34	22.96
12H	4H	13.12	13.47	14.27	14.62	16.19	18.92	19.28	20.07	20.42	21.99
	6H	13.47	13.76	14.63	14.91	16.49	19.58	19.86	20.74	21.01	22.59
	8H	13.54	13.79	14.70	14.94	16.55	19.80	20.05	20.96	21.20	22.81