

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: P936330

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-12-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936330
REPORT IS A COMBINATION OF REPORTS P933430 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-12-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

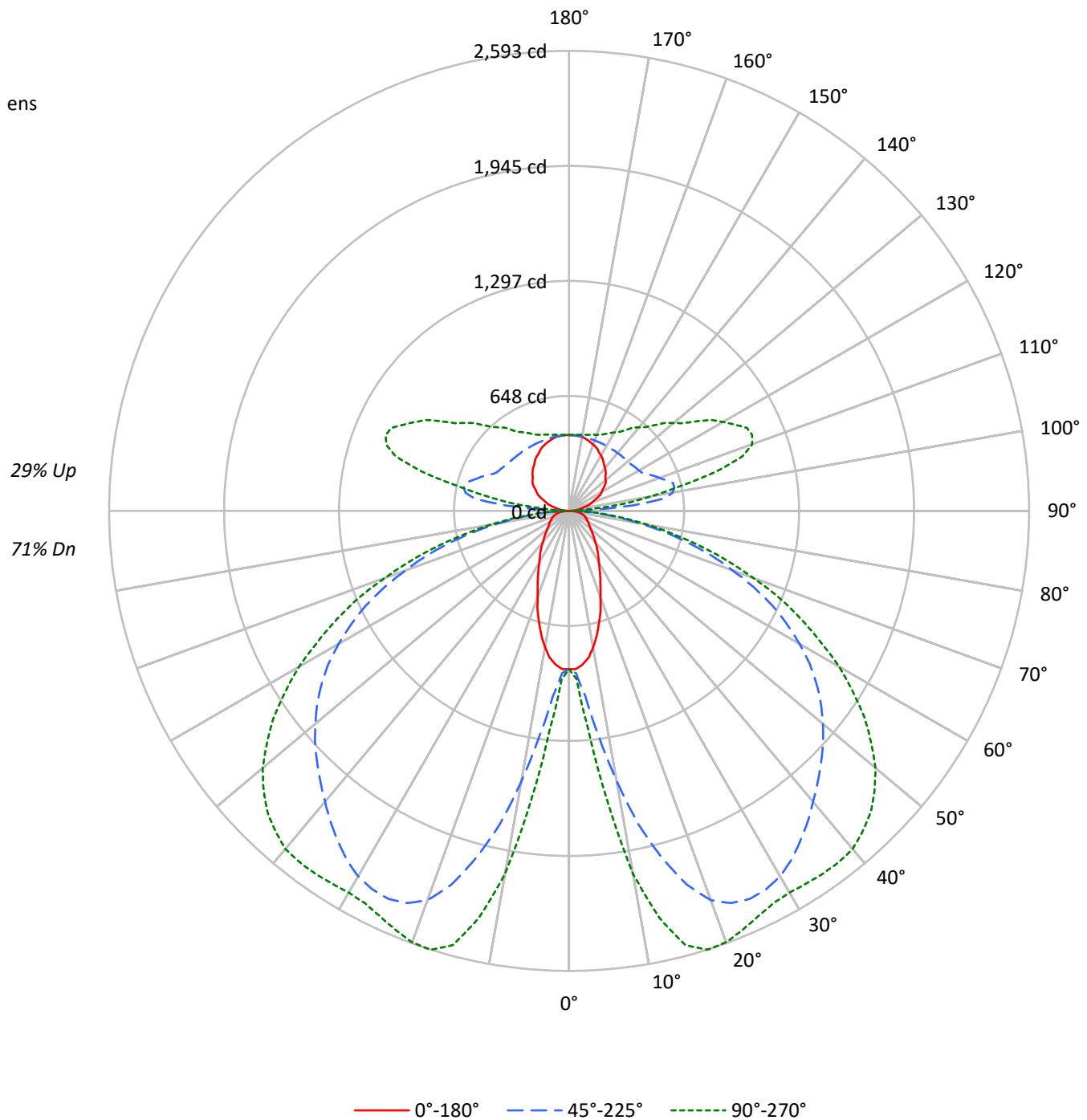
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9678.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 90
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: P936330
CATALOG NUMBER: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-12-6500K

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2759	2759	2759
5°	2697	3190	3709
10°	2447	4652	6149
15°	2081	6079	7425
20°	1694	7046	7568
25°	1414	7375	7414
30°	1193	7423	7400
35°	1055	7302	7591
40°	920	7144	7789
45°	834	7029	7819
50°	765	6925	7690
55°	734	6773	7349
60°	752	6479	6811
65°	784	6030	6071
70°	837	5262	5129
75°	931	4294	4002
80°	1024	2982	2697
85°	930	1585	1380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	1.2
10°-20°	511.5	5.3
20°-30°	894.7	9.2
30°-40°	1151.7	11.9
40°-50°	1286.4	13.3
50°-60°	1232.1	12.7
60°-70°	976.4	10.1
70°-80°	574.1	5.9
80°-90°	161.1	1.7
90°-100°	208.7	2.2
100°-110°	548.6	5.7
110°-120°	568.9	5.9
120°-130°	456.3	4.7
130°-140°	358.0	3.7
140°-150°	274.8	2.8
150°-160°	197.9	2.0
160°-170°	121.1	1.3
170°-180°	40.9	0.4
0°-30°	1521.5	15.7
0°-40°	2673.2	27.6
0°-60°	5191.7	53.6
0°-90°	6903.4	71.3
90°-120°	1326.1	13.7
90°-150°	2415.3	25.0
90°-180°	2775.0	28.7
0°-180°	9678.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	869	932	1050	1188	1231	80
15°	651	1202	2025	2456	2533	181
25°	416	1363	2413	2519	2522	192
35°	281	1302	2272	2401	2496	176
45°	192	1038	2008	2301	2404	149
55°	138	660	1704	1979	2034	125
65°	109	350	1265	1423	1443	108
75°	80	215	694	763	766	84
85°	29	66	172	189	192	30
90°	3	8	22	11	11	4
95°	28	108	359	185	126	31
105°	99	150	606	921	859	105
115°	176	213	486	969	1106	173
125°	244	274	442	747	881	217
135°	291	320	428	603	684	225
145°	338	359	423	514	554	211
155°	382	392	423	464	478	175
165°	412	417	423	439	445	116
175°	428	428	426	431	431	41
180°	428	428	428	428	428	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1
2.5°	892.1	892.1	897.9	900.7	906.5	909.3	915.1	920.8	938.0	940.9	946.6
5°	869.2	880.7	917.9	932.3	972.4	1027.0	1049.9	1087.3	1164.7	1187.7	1202.0
7.5°	834.8	860.6	952.4	975.3	1075.7	1219.2	1279.5	1359.8	1483.2	1543.4	1592.2
10°	780.3	834.8	998.3	1052.8	1216.4	1434.4	1546.3	1658.1	1844.6	1927.8	1959.3
12.5°	720.0	808.9	1047.0	1121.7	1356.9	1675.3	1810.2	1933.5	2145.8	2257.7	2274.9
15°	651.2	771.6	1093.0	1202.0	1506.1	1876.1	2025.3	2177.3	2375.3	2455.6	2475.7
17.5°	590.9	743.0	1136.1	1250.8	1620.8	2056.9	2208.9	2335.1	2495.8	2550.3	2564.6
20°	516.3	697.1	1164.7	1313.9	1741.3	2188.8	2335.1	2432.7	2541.7	2576.1	2581.8
22.5°	461.8	648.3	1182.0	1336.9	1821.6	2269.1	2392.5	2469.9	2544.5	2556.0	2558.9
25°	415.9	593.8	1179.1	1362.7	1890.5	2317.9	2412.6	2469.9	2513.0	2518.7	2518.7
27.5°	372.9	533.6	1167.6	1368.4	1942.1	2329.4	2404.0	2444.1	2464.2	2475.7	2475.7
30°	335.6	476.2	1138.9	1356.9	1965.1	2317.9	2378.1	2398.2	2418.3	2435.5	2444.1
32.5°	306.9	421.7	1095.9	1334.0	1967.9	2289.2	2332.3	2343.7	2372.4	2412.6	2426.9
35°	281.1	367.2	1047.0	1302.4	1950.7	2243.3	2272.0	2283.5	2340.9	2401.1	2421.2
37.5°	255.3	327.0	983.9	1247.9	1924.9	2188.8	2208.9	2229.0	2317.9	2389.6	2412.6
40°	229.5	292.6	909.3	1187.7	1884.8	2122.8	2140.1	2171.6	2289.2	2372.4	2395.4
42.5°	209.4	263.9	829.0	1124.6	1833.1	2048.3	2074.1	2120.0	2254.8	2343.7	2369.5
45°	192.2	235.2	743.0	1038.4	1767.1	1970.8	2008.1	2071.2	2214.6	2300.7	2323.6
47.5°	175.0	215.1	654.0	949.5	1695.4	1893.4	1942.1	2013.8	2160.1	2243.3	2263.4
50°	160.6	195.1	565.1	854.8	1618.0	1810.2	1867.5	1942.1	2091.3	2168.7	2194.6
52.5°	149.2	177.9	481.9	760.2	1529.0	1724.1	1790.1	1867.5	2008.1	2082.7	2099.9
55°	137.7	163.5	410.2	659.8	1437.3	1632.3	1704.0	1778.6	1916.3	1979.4	1990.9
57.5°	132.0	152.0	350.0	565.1	1339.7	1529.0	1609.4	1678.2	1807.3	1856.1	1867.5
60°	123.3	143.4	304.1	484.8	1233.6	1431.5	1500.4	1569.2	1678.2	1718.4	1727.0
62.5°	114.7	137.7	269.6	407.3	1124.6	1316.8	1385.6	1448.7	1540.5	1569.2	1580.7
65°	109.0	132.0	243.8	350.0	1012.6	1196.3	1265.1	1319.6	1394.2	1422.9	1428.6
67.5°	103.3	126.2	223.7	301.2	900.7	1075.7	1127.4	1179.1	1236.5	1265.1	1268.0
70°	94.7	120.5	206.5	266.8	786.0	938.0	981.1	1035.6	1081.5	1095.9	1104.5
72.5°	88.9	111.9	195.1	241.0	668.4	806.1	846.2	877.8	917.9	932.3	932.3
75°	80.3	100.4	183.6	215.1	547.9	659.8	694.2	725.8	757.3	763.0	754.4
77.5°	71.7	88.9	157.8	180.7	427.4	522.1	550.8	568.0	593.8	599.5	602.4
80°	60.2	77.5	123.3	140.6	309.8	384.4	404.5	418.8	441.8	441.8	447.5
82.5°	45.9	60.2	88.9	100.4	209.4	263.9	281.1	289.7	304.1	304.1	304.1
85°	28.7	37.3	57.4	66.0	126.2	160.6	172.1	175.0	186.5	189.3	189.3
87.5°	14.3	20.1	37.3	40.2	66.0	83.2	83.2	88.9	88.9	86.1	83.2
90°	2.9	5.2	7.5	8.0	12.6	18.7	21.8	19.4	14.5	10.9	10.9
92.5°	11.5	31.0	50.6	55.5	77.9	108.0	123.0	107.8	77.4	54.6	52.4
95°	27.5	63.3	99.1	108.0	191.8	303.6	359.4	320.7	243.4	185.3	178.7
97.5°	47.7	79.3	110.8	118.7	258.4	444.7	537.9	513.4	464.5	427.8	415.3
100°	63.2	91.8	120.4	127.6	282.7	489.4	592.7	594.6	598.1	600.8	585.9
102.5°	76.4	103.1	129.8	136.4	293.7	503.4	608.2	639.4	701.7	748.4	735.6
105°	98.9	121.4	144.0	149.6	302.0	505.0	606.5	676.3	816.0	920.8	913.9
107.5°	121.8	142.9	164.0	169.2	303.5	482.5	572.0	669.4	864.3	1010.5	1012.1
110°	137.3	156.3	175.4	180.1	301.2	462.6	543.3	652.2	870.0	1033.5	1040.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	152.6	170.7	188.8	193.3	301.3	445.2	517.2	628.7	851.6	1018.8	1029.8
115°	175.6	192.3	209.0	213.2	304.1	425.2	485.8	593.2	808.0	969.1	984.3
117.5°	198.2	213.4	228.6	232.5	309.7	412.8	464.3	561.3	755.1	900.4	917.4
120°	211.4	225.8	240.1	243.6	314.3	408.5	455.6	544.2	721.4	854.2	870.6
122.5°	224.4	238.9	253.2	256.8	320.9	406.3	449.0	528.8	688.3	807.9	824.0
125°	244.2	257.4	270.6	273.9	329.9	404.6	441.9	509.6	645.0	746.7	761.6
127.5°	260.3	273.6	286.9	290.2	338.8	403.5	435.8	494.0	610.3	697.5	710.2
130°	268.9	283.2	297.6	301.1	345.3	404.1	433.5	485.4	588.9	666.6	678.2
132.5°	277.9	292.1	306.5	310.0	350.5	404.6	431.5	477.9	570.7	640.2	650.6
135°	291.1	304.1	317.1	320.3	356.3	404.2	428.1	466.9	544.6	602.8	611.8
137.5°	304.5	317.5	330.3	333.5	364.9	406.7	427.5	460.3	525.9	575.2	582.5
140°	315.7	327.6	339.5	342.5	370.1	407.1	425.5	453.8	510.5	553.1	559.9
142.5°	324.3	335.3	346.3	349.1	374.5	408.5	425.5	450.4	500.2	537.6	543.5
145°	337.6	347.2	356.8	359.1	380.3	408.5	422.6	443.0	483.7	514.2	518.7
147.5°	350.8	360.1	369.5	371.8	388.7	411.4	422.6	438.7	470.7	494.7	498.5
150°	359.4	367.8	376.3	378.4	393.1	412.8	422.6	436.2	463.3	483.5	486.5
152.5°	368.3	374.7	381.0	382.7	396.0	413.7	422.6	434.2	457.3	474.7	476.9
155°	381.5	386.2	391.0	392.1	402.3	415.8	422.6	431.8	450.3	464.0	465.6
157.5°	391.3	395.9	400.5	401.7	408.7	418.0	422.6	429.8	444.1	454.8	455.8
160°	398.0	401.5	405.1	406.0	411.5	418.9	422.6	428.8	441.0	450.2	450.7
162.5°	404.6	407.2	409.9	410.6	414.6	420.0	422.6	427.8	438.1	445.9	446.4
165°	411.7	414.1	416.6	417.2	419.0	421.4	422.6	426.4	433.7	439.3	439.8
167.5°	418.3	419.5	420.6	420.9	422.4	424.5	425.5	427.9	432.8	436.4	436.7
170°	422.6	423.8	424.9	425.2	425.3	425.4	425.5	427.9	432.8	436.4	436.4
172.5°	424.9	425.2	425.4	425.5	425.5	425.5	425.5	427.4	431.2	434.1	433.9
175°	428.1	428.1	428.1	428.1	427.2	426.1	425.5	426.7	429.1	431.0	431.0
177.5°	428.1	428.1	428.1	428.1	427.4	426.6	426.1	427.0	428.9	430.4	430.1
180°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	892.1	892.1
2.5°	952.4	946.6
5°	1225.0	1230.7
7.5°	1649.5	1646.7
10°	2051.1	2076.9
12.5°	2343.7	2349.5
15°	2521.6	2533.1
17.5°	2590.4	2593.3
20°	2593.3	2587.6
22.5°	2561.7	2556.0
25°	2524.4	2521.6
27.5°	2490.0	2492.9
30°	2475.7	2484.3
32.5°	2475.7	2490.0
35°	2481.4	2495.8
37.5°	2478.5	2495.8
40°	2467.1	2487.2
42.5°	2435.5	2449.9
45°	2386.8	2404.0
47.5°	2323.6	2335.1
50°	2243.3	2254.8
52.5°	2142.9	2145.8
55°	2022.4	2033.9
57.5°	1893.4	1896.2
60°	1749.9	1758.5
62.5°	1597.9	1597.9
65°	1437.3	1443.0
67.5°	1270.9	1285.2
70°	1101.6	1104.5
72.5°	935.2	935.2
75°	763.0	765.9
77.5°	599.5	599.5
80°	444.6	447.5
82.5°	306.9	312.7
85°	192.2	192.2
87.5°	88.9	80.3
90°	10.9	10.9
92.5°	43.8	35.1
95°	152.4	126.1
97.5°	365.3	315.2
100°	526.3	466.6
102.5°	684.5	633.5
105°	886.5	859.0
107.5°	1018.8	1025.4
110°	1069.2	1097.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1073.7	1117.6
115°	1045.2	1106.1
117.5°	984.9	1052.4
120°	936.2	1001.8
122.5°	888.9	953.6
125°	821.2	880.8
127.5°	760.5	810.8
130°	724.7	771.2
132.5°	692.2	733.8
135°	647.6	683.5
137.5°	611.9	641.3
140°	587.4	614.8
142.5°	567.1	590.7
145°	536.6	554.5
147.5°	513.3	528.1
150°	498.6	510.5
152.5°	485.9	495.0
155°	471.5	477.5
157.5°	460.1	464.3
160°	453.2	455.6
162.5°	448.7	451.0
165°	442.3	444.7
167.5°	437.6	438.7
170°	436.4	436.4
172.5°	433.0	432.1
175°	431.0	431.0
177.5°	429.1	428.1
180°	428.1	428.1



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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	6.28	7.43	7.02	8.20	9.13	19.47	20.62	20.21	21.39	22.32
	3H	7.00	8.04	7.76	8.82	9.78	21.34	22.38	22.09	23.16	24.11
	4H	7.31	8.30	8.09	9.09	10.06	22.00	22.98	22.77	23.77	24.74
	6H	7.58	8.49	8.37	9.29	10.27	22.45	23.36	23.23	24.15	25.14
	8H	7.66	8.53	8.45	9.34	10.33	22.58	23.45	23.37	24.26	25.25
	12H	7.68	8.51	8.49	9.32	10.34	22.66	23.49	23.46	24.30	25.31
4H	2H	13.54	14.52	14.31	15.31	16.28	19.78	20.76	20.55	21.55	22.52
	3H	15.13	15.96	15.92	16.78	17.76	21.85	22.68	22.64	23.50	24.49
	4H	15.24	15.99	16.04	16.81	17.82	22.64	23.39	23.44	24.21	25.23
	6H	15.26	15.92	16.08	16.76	17.78	23.20	23.85	24.02	24.70	25.72
	8H	15.25	15.86	16.07	16.70	17.73	23.37	23.98	24.20	24.83	25.86
	12H	15.22	15.77	16.07	16.64	17.67	23.48	24.04	24.33	24.90	25.94
8H	4H	16.71	17.32	17.53	18.16	19.20	22.72	23.34	23.55	24.18	25.21
	6H	16.96	17.47	17.82	18.36	19.39	23.37	23.88	24.22	24.76	25.80
	8H	16.99	17.44	17.85	18.32	19.37	23.60	24.05	24.46	24.93	25.98
	12H	16.97	17.37	17.84	18.24	19.34	23.76	24.16	24.63	25.03	26.13
12H	4H	16.87	17.42	17.71	18.28	19.32	22.69	23.24	23.54	24.11	25.14
	6H	17.23	17.68	18.09	18.56	19.61	23.36	23.81	24.22	24.69	25.74
	8H	17.31	17.71	18.18	18.58	19.69	23.60	24.00	24.47	24.88	25.98