

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: P936562

Luminaire Tested: SQ4-FB-025U-125D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936562
REPORT IS A COMBINATION OF REPORTS P933448 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-125D-93050-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

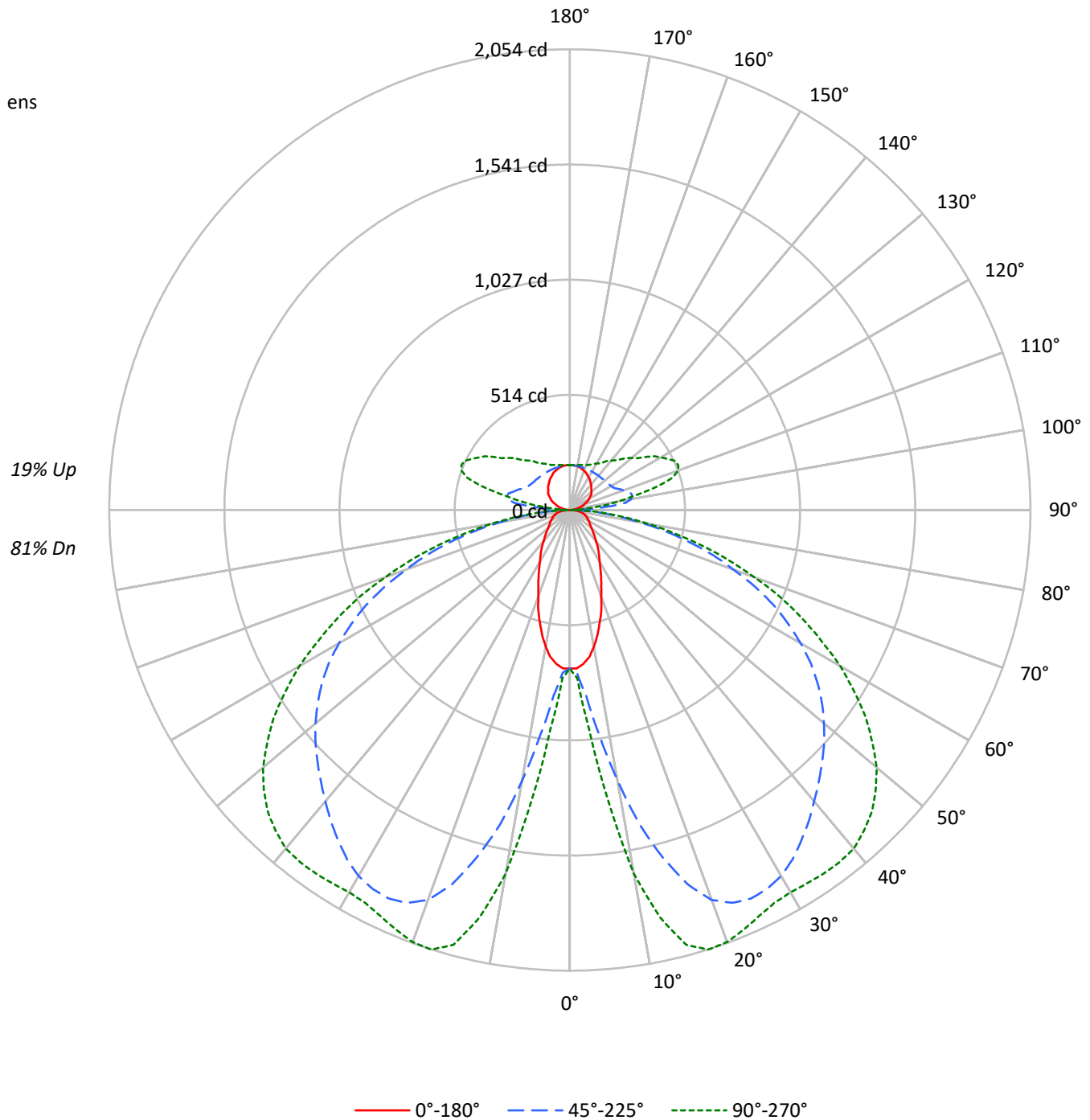
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6767.7 lumens
Efficiency: N/A
Efficacy: 91.0 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-Direct

Input Watts (W): 74.4
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

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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	50	30	10	0
RCR																					
0	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	84	84	84	81
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	70	70	70	70	66
2	94	85	78	72	89	82	75	70	75	70	66	69	65	61	63	60	57	57	57	57	54
3	85	74	66	59	81	71	64	58	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	47	43	49	44	40	40	40	40	37
5	71	58	49	42	67	55	47	41	51	44	39	47	41	36	43	38	34	34	34	34	32
6	65	51	42	36	62	49	41	35	46	39	33	42	36	31	39	34	30	30	30	30	27
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26	26	26	26	24
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23	23	23	23	21
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4372	4372	4372
5°	4270	5052	5877
10°	3871	7363	9743
15°	3289	9617	11765
20°	2677	11142	11990
25°	2232	11657	11746
30°	1881	11727	11724
35°	1663	11529	12028
40°	1448	11273	12340
45°	1311	11084	12389
50°	1200	10914	12184
55°	1148	10666	11644
60°	1175	10193	10791
65°	1221	9476	9619
70°	1297	8258	8127
75°	1433	6728	6342
80°	1553	4659	4273
85°	1353	2469	2188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.4
10°-20°	405.2	6.0
20°-30°	708.8	10.5
30°-40°	912.4	13.5
40°-50°	1019.1	15.1
50°-60°	976.1	14.4
60°-70°	773.5	11.4
70°-80°	454.9	6.7
80°-90°	127.1	1.9
90°-100°	97.7	1.4
100°-110°	256.8	3.8
110°-120°	266.3	3.9
120°-130°	213.6	3.2
130°-140°	167.6	2.5
140°-150°	128.6	1.9
150°-160°	92.7	1.4
160°-170°	56.7	0.8
170°-180°	19.2	0.3
0°-30°	1205.4	17.8
0°-40°	2117.8	31.3
0°-60°	4112.9	60.8
0°-90°	5468.4	80.8
90°-120°	620.8	9.2
90°-150°	1130.7	16.7
90°-180°	1299.0	19.2
0°-180°	6767.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	689	739	832	941	975	64
15°	516	952	1604	1945	2007	144
25°	330	1080	1911	1995	1998	152
35°	223	1032	1800	1902	1977	139
45°	152	823	1591	1823	1904	118
55°	109	523	1350	1568	1611	99
65°	86	277	1002	1127	1143	86
75°	64	170	550	604	607	67
85°	23	52	136	150	152	24
90°	1	4	10	5	5	3
95°	13	51	168	87	59	14
105°	46	70	284	431	402	49
115°	82	100	227	454	518	81
125°	114	128	207	350	412	101
135°	136	150	200	282	320	105
145°	158	168	198	241	260	99
155°	179	184	198	217	224	82
165°	193	195	198	206	208	54
175°	200	200	199	202	202	19
180°	200	200	200	200	200	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8	706.8
2.5°	706.8	706.8	711.3	713.6	718.1	720.5	724.9	729.5	743.1	745.4	750.0
5°	688.6	697.7	727.3	738.6	770.4	813.6	831.7	861.3	922.7	940.9	952.3
7.5°	661.4	681.8	754.5	772.7	852.2	965.9	1013.6	1077.2	1174.9	1222.6	1261.3
10°	618.1	661.4	790.8	834.1	963.6	1136.3	1225.0	1313.6	1461.3	1527.2	1552.2
12.5°	570.4	640.9	829.5	888.6	1074.9	1327.2	1434.0	1531.7	1699.9	1788.6	1802.2
15°	515.9	611.3	865.9	952.3	1193.1	1486.3	1604.5	1724.9	1881.8	1945.3	1961.3
17.5°	468.2	588.6	900.0	990.8	1284.1	1629.5	1749.9	1849.9	1977.2	2020.4	2031.7
20°	409.1	552.2	922.7	1040.9	1379.5	1734.0	1849.9	1927.2	2013.6	2040.8	2045.3
22.5°	365.9	513.6	936.3	1059.1	1443.2	1797.6	1895.4	1956.7	2015.8	2024.9	2027.2
25°	329.6	470.4	934.1	1079.5	1497.7	1836.3	1911.3	1956.7	1990.8	1995.4	1995.4
27.5°	295.5	422.7	924.9	1084.0	1538.6	1845.3	1904.4	1936.3	1952.1	1961.3	1961.3
30°	265.9	377.3	902.2	1074.9	1556.8	1836.3	1884.0	1899.9	1915.8	1929.5	1936.3
32.5°	243.2	334.0	868.1	1056.7	1559.0	1813.5	1847.7	1856.7	1879.4	1911.3	1922.6
35°	222.8	290.9	829.5	1031.8	1545.4	1777.2	1799.9	1809.0	1854.5	1902.2	1918.1
37.5°	202.3	259.1	779.5	988.6	1524.9	1734.0	1749.9	1765.8	1836.3	1893.0	1911.3
40°	181.8	231.8	720.5	940.9	1493.1	1681.8	1695.4	1720.3	1813.5	1879.4	1897.6
42.5°	165.9	209.1	656.8	890.8	1452.2	1622.7	1643.1	1679.4	1786.2	1856.7	1877.2
45°	152.3	186.3	588.6	822.7	1399.9	1561.2	1590.8	1640.8	1754.5	1822.7	1840.9
47.5°	138.6	170.5	518.1	752.2	1343.1	1499.9	1538.6	1595.4	1711.3	1777.2	1793.1
50°	127.2	154.5	447.7	677.2	1281.7	1434.0	1479.5	1538.6	1656.8	1718.1	1738.5
52.5°	118.2	140.9	381.8	602.3	1211.3	1365.8	1418.1	1479.5	1590.8	1649.9	1663.6
55°	109.0	129.6	325.0	522.7	1138.6	1293.1	1350.0	1409.0	1518.1	1568.1	1577.2
57.5°	104.6	120.4	277.3	447.7	1061.3	1211.3	1274.9	1329.4	1431.8	1470.4	1479.5
60°	97.7	113.6	240.9	384.1	977.2	1134.0	1188.6	1243.1	1329.4	1361.3	1368.1
62.5°	90.9	109.0	213.6	322.7	890.8	1043.1	1097.7	1147.7	1220.4	1243.1	1252.2
65°	86.4	104.6	193.2	277.3	802.2	947.7	1002.2	1045.4	1104.5	1127.2	1131.8
67.5°	81.8	100.0	177.3	238.6	713.6	852.2	893.2	934.1	979.5	1002.2	1004.5
70°	75.0	95.4	163.7	211.4	622.7	743.1	777.2	820.4	856.8	868.1	875.0
72.5°	70.5	88.6	154.5	190.9	529.5	638.6	670.4	695.4	727.3	738.6	738.6
75°	63.7	79.5	145.5	170.5	434.0	522.7	550.0	575.0	599.9	604.5	597.7
77.5°	56.9	70.5	125.0	143.2	338.6	413.6	436.4	450.0	470.4	475.0	477.3
80°	47.7	61.3	97.7	111.4	245.4	304.5	320.4	331.8	350.0	350.0	354.5
82.5°	36.3	47.7	70.5	79.5	165.9	209.1	222.8	229.6	240.9	240.9	240.9
85°	22.7	29.5	45.5	52.3	100.0	127.2	136.4	138.6	147.7	150.0	150.0
87.5°	11.4	15.9	29.5	31.8	52.3	65.9	65.9	70.5	70.5	68.2	65.9
90°	1.3	2.4	3.5	3.8	5.9	8.8	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	26.0	36.5	50.6	57.6	50.4	36.2	25.5	24.5
95°	12.9	29.6	46.4	50.6	89.8	142.1	168.2	150.1	113.9	86.8	83.7
97.5°	22.3	37.1	51.8	55.5	121.0	208.2	251.8	240.3	217.5	200.3	194.5
100°	29.6	43.0	56.4	59.7	132.3	229.1	277.5	278.3	280.0	281.2	274.2
102.5°	35.8	48.3	60.8	63.9	137.5	235.6	284.7	299.3	328.5	350.4	344.4
105°	46.3	56.9	67.4	70.1	141.4	236.4	283.9	316.6	382.0	431.1	427.9
107.5°	57.0	66.9	76.7	79.2	142.1	225.9	267.8	313.4	404.7	473.1	473.9
110°	64.3	73.2	82.1	84.3	141.0	216.6	254.4	305.4	407.4	483.8	487.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.4	80.0	88.4	90.5	141.0	208.4	242.1	294.3	398.7	476.9	482.0
115°	82.2	90.1	97.9	99.8	142.4	199.0	227.4	277.7	378.3	453.7	460.8
117.5°	92.8	99.9	107.0	108.8	145.0	193.2	217.4	262.8	353.5	421.5	429.4
120°	99.0	105.7	112.4	114.1	147.2	191.3	213.4	254.8	337.7	399.9	407.6
122.5°	105.0	111.8	118.5	120.2	150.2	190.3	210.2	247.6	322.2	378.3	385.9
125°	114.3	120.5	126.7	128.2	154.4	189.4	206.9	238.6	302.1	349.6	356.6
127.5°	121.9	128.0	134.3	135.8	158.6	188.9	204.0	231.3	285.8	326.6	332.5
130°	125.9	132.6	139.2	140.9	161.6	189.2	203.0	227.2	275.7	312.0	317.5
132.5°	130.1	136.8	143.4	145.1	164.1	189.4	202.1	223.7	267.2	299.7	304.5
135°	136.3	142.4	148.4	150.0	166.8	189.3	200.5	218.6	255.0	282.2	286.4
137.5°	142.6	148.6	154.6	156.1	170.8	190.4	200.2	215.6	246.3	269.3	272.7
140°	147.8	153.4	158.9	160.4	173.3	190.6	199.2	212.5	239.0	258.9	262.1
142.5°	151.8	156.9	162.1	163.4	175.3	191.2	199.2	210.8	234.2	251.7	254.4
145°	158.0	162.5	167.0	168.1	178.1	191.2	197.9	207.4	226.4	240.7	242.8
147.5°	164.2	168.6	173.0	174.0	182.0	192.6	197.9	205.4	220.3	231.6	233.3
150°	168.2	172.2	176.2	177.2	184.1	193.3	197.9	204.2	216.8	226.3	227.8
152.5°	172.4	175.4	178.4	179.2	185.4	193.7	197.9	203.2	214.1	222.2	223.3
155°	178.6	180.9	183.1	183.6	188.4	194.7	197.9	202.2	210.8	217.2	217.9
157.5°	183.2	185.3	187.5	188.0	191.3	195.7	197.9	201.2	207.9	212.9	213.4
160°	186.3	188.0	189.6	190.1	192.7	196.2	197.9	200.7	206.5	210.8	211.0
162.5°	189.4	190.6	191.9	192.2	194.1	196.6	197.9	200.3	205.1	208.8	209.1
165°	192.8	193.8	195.0	195.3	196.2	197.3	197.9	199.6	203.1	205.7	205.9
167.5°	195.8	196.3	196.9	197.1	197.8	198.8	199.2	200.4	202.6	204.3	204.4
170°	197.9	198.4	198.9	199.0	199.1	199.2	199.2	200.4	202.6	204.3	204.3
172.5°	198.9	199.0	199.2	199.2	199.2	199.2	199.2	200.1	201.9	203.2	203.1
175°	200.5	200.5	200.5	200.5	200.0	199.5	199.2	199.7	200.9	201.8	201.8
177.5°	200.5	200.5	200.5	200.5	200.1	199.7	199.5	199.9	200.8	201.5	201.4
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	706.8	706.8
2.5°	754.5	750.0
5°	970.4	975.0
7.5°	1306.8	1304.5
10°	1624.9	1645.4
12.5°	1856.7	1861.3
15°	1997.6	2006.8
17.5°	2052.1	2054.5
20°	2054.5	2049.9
22.5°	2029.4	2024.9
25°	1999.9	1997.6
27.5°	1972.6	1974.9
30°	1961.3	1968.1
32.5°	1961.3	1972.6
35°	1965.8	1977.2
37.5°	1963.5	1977.2
40°	1954.5	1970.3
42.5°	1929.5	1940.9
45°	1890.8	1904.4
47.5°	1840.9	1849.9
50°	1777.2	1786.2
52.5°	1697.6	1699.9
55°	1602.2	1611.3
57.5°	1499.9	1502.2
60°	1386.3	1393.1
62.5°	1265.9	1265.9
65°	1138.6	1143.1
67.5°	1006.8	1018.1
70°	872.7	875.0
72.5°	740.9	740.9
75°	604.5	606.8
77.5°	475.0	475.0
80°	352.2	354.5
82.5°	243.2	247.7
85°	152.3	152.3
87.5°	70.5	63.7
90°	5.1	5.1
92.5°	20.4	16.4
95°	71.4	59.1
97.5°	171.0	147.5
100°	246.4	218.5
102.5°	320.5	296.6
105°	415.1	402.2
107.5°	476.9	480.1
110°	500.6	514.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	502.6	523.2
115°	489.3	517.8
117.5°	461.1	492.7
120°	438.3	469.1
122.5°	416.1	446.4
125°	384.4	412.4
127.5°	356.1	379.6
130°	339.2	361.0
132.5°	324.0	343.5
135°	303.2	320.0
137.5°	286.5	300.2
140°	275.0	287.8
142.5°	265.5	276.6
145°	251.2	259.6
147.5°	240.3	247.2
150°	233.4	239.0
152.5°	227.5	231.8
155°	220.7	223.6
157.5°	215.4	217.4
160°	212.2	213.4
162.5°	210.1	211.2
165°	207.1	208.2
167.5°	204.9	205.4
170°	204.3	204.3
172.5°	202.7	202.3
175°	201.8	201.8
177.5°	200.9	200.5
180°	200.5	200.5



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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	8.55	9.85	9.18	10.50	11.25	21.72	23.02	22.35	23.67	24.42
	3H	9.29	10.47	9.93	11.13	11.91	23.58	24.76	24.23	25.42	26.20
	4H	9.61	10.72	10.27	11.39	12.19	24.24	25.36	24.91	26.03	26.82
	6H	9.88	10.91	10.56	11.59	12.40	24.69	25.72	25.37	26.41	27.22
	8H	9.96	10.94	10.65	11.65	12.46	24.82	25.81	25.51	26.51	27.32
	12H	9.99	10.93	10.69	11.63	12.47	24.90	25.84	25.60	26.54	27.38
4H	2H	15.81	16.92	16.47	17.59	18.39	22.04	23.15	22.71	23.83	24.62
	3H	17.42	18.35	18.10	19.06	19.88	24.12	25.06	24.80	25.77	26.58
	4H	17.53	18.38	18.23	19.09	19.94	24.90	25.75	25.60	26.47	27.31
	6H	17.57	18.31	18.28	19.05	19.90	25.46	26.21	26.18	26.95	27.80
	8H	17.56	18.25	18.28	18.99	19.85	25.64	26.33	26.36	27.07	27.93
	12H	17.53	18.16	18.28	18.92	19.79	25.75	26.38	26.49	27.14	28.01
8H	4H	19.01	19.70	19.73	20.44	21.31	25.00	25.70	25.72	26.43	27.30
	6H	19.27	19.85	20.02	20.63	21.50	25.65	26.23	26.40	27.00	27.87
	8H	19.30	19.81	20.06	20.59	21.47	25.87	26.39	26.64	27.17	28.05
	12H	19.29	19.74	20.05	20.51	21.45	26.03	26.49	26.80	27.26	28.20
12H	4H	19.17	19.80	19.92	20.56	21.43	24.98	25.60	25.72	26.36	27.23
	6H	19.53	20.05	20.30	20.83	21.71	25.64	26.15	26.40	26.93	27.82
	8H	19.63	20.08	20.39	20.85	21.79	25.89	26.34	26.65	27.11	28.05