

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: P936551

Luminaire Tested: SQ4-FB-025U-125D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936551
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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

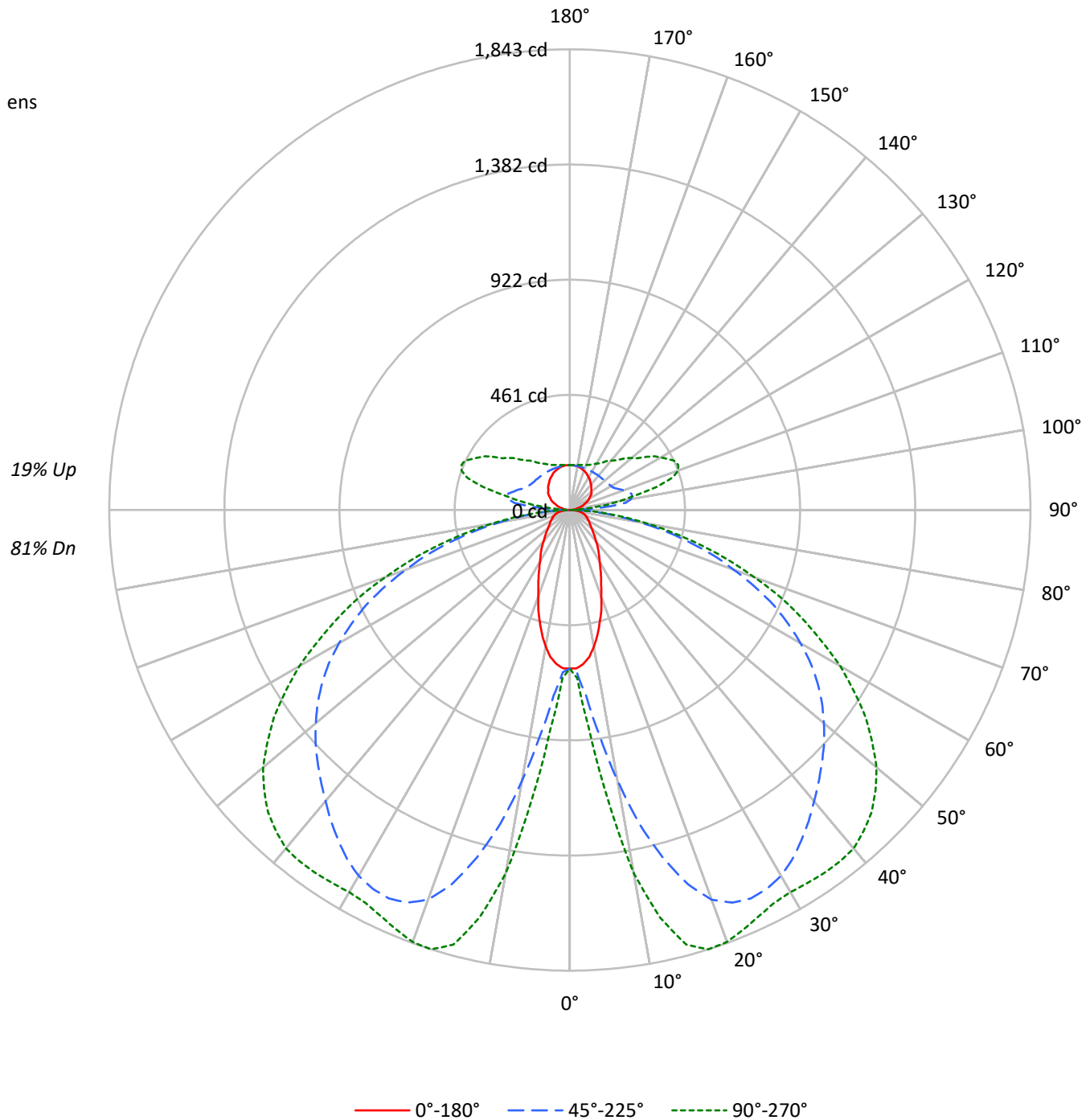
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6070.0 lumens
Efficiency: N/A
Efficacy: 81.6 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 (Ain): 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				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°	3921	3921	3921
5°	3830	4531	5271
10°	3472	6604	8739
15°	2950	8626	10552
20°	2401	9993	10754
25°	2002	10454	10535
30°	1687	10518	10516
35°	1491	10341	10787
40°	1299	10111	11068
45°	1175	9941	11112
50°	1077	9789	10928
55°	1030	9566	10444
60°	1053	9142	9679
65°	1095	8499	8628
70°	1164	7407	7289
75°	1285	6034	5688
80°	1393	4180	3833
85°	1216	2213	1962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11112 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.4
10°-20°	363.4	6.0
20°-30°	635.7	10.5
30°-40°	818.3	13.5
40°-50°	914.0	15.1
50°-60°	875.4	14.4
60°-70°	693.8	11.4
70°-80°	408.0	6.7
80°-90°	114.0	1.9
90°-100°	87.6	1.4
100°-110°	230.4	3.8
110°-120°	238.9	3.9
120°-130°	191.6	3.2
130°-140°	150.3	2.5
140°-150°	115.4	1.9
150°-160°	83.1	1.4
160°-170°	50.8	0.8
170°-180°	17.2	0.3
0°-30°	1081.1	17.8
0°-40°	1899.4	31.3
0°-60°	3688.9	60.8
0°-90°	4904.7	80.8
90°-120°	556.8	9.2
90°-150°	1014.1	16.7
90°-180°	1165.0	19.2
0°-180°	6070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	618	662	746	844	874	57
15°	463	854	1439	1745	1800	129
25°	296	968	1714	1790	1792	136
35°	200	925	1614	1706	1773	125
45°	137	738	1427	1635	1708	106
55°	98	469	1211	1406	1445	89
65°	78	249	899	1011	1025	77
75°	57	153	493	542	544	60
85°	20	47	122	134	137	22
90°	1	3	9	5	5	2
95°	12	45	151	78	53	13
105°	42	63	255	387	361	44
115°	74	90	204	407	464	73
125°	102	115	186	314	370	91
135°	122	134	180	253	287	95
145°	142	151	178	216	233	89
155°	160	165	178	195	200	74
165°	173	175	178	184	187	49
175°	180	180	179	181	181	17
180°	180	180	180	180	180	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
2.5°	633.9	633.9	638.0	640.0	644.1	646.2	650.2	654.3	666.5	668.6	672.7
5°	617.6	625.8	652.3	662.5	691.0	729.7	746.0	772.5	827.6	843.9	854.1
7.5°	593.2	611.5	676.7	693.0	764.4	866.3	909.1	966.2	1053.8	1096.6	1131.3
10°	554.4	593.2	709.3	748.1	864.3	1019.2	1098.7	1178.2	1310.7	1369.8	1392.2
12.5°	511.6	574.8	744.0	797.0	964.1	1190.4	1286.2	1373.8	1524.7	1604.2	1616.4
15°	462.7	548.3	776.6	854.1	1070.1	1333.1	1439.1	1547.1	1687.7	1744.8	1759.1
17.5°	419.9	527.9	807.2	888.7	1151.7	1461.5	1569.5	1659.2	1773.3	1812.0	1822.2
20°	366.9	495.3	827.6	933.6	1237.3	1555.3	1659.2	1728.5	1805.9	1830.4	1834.5
22.5°	328.2	460.7	839.8	949.9	1294.4	1612.3	1700.0	1755.0	1808.0	1816.1	1818.2
25°	295.6	421.9	837.8	968.2	1343.3	1647.0	1714.2	1755.0	1785.6	1789.6	1789.6
27.5°	265.0	379.1	829.6	972.3	1380.0	1655.1	1708.1	1736.6	1750.9	1759.1	1759.1
30°	238.5	338.4	809.2	964.1	1396.3	1647.0	1689.8	1704.0	1718.3	1730.5	1736.6
32.5°	218.1	299.6	778.6	947.8	1398.3	1626.6	1657.2	1665.3	1685.7	1714.2	1724.4
35°	199.8	260.9	744.0	925.4	1386.1	1594.0	1614.4	1622.5	1663.3	1706.1	1720.3
37.5°	181.4	232.4	699.2	886.7	1367.7	1555.3	1569.5	1583.8	1647.0	1697.9	1714.2
40°	163.1	207.9	646.2	843.9	1339.2	1508.4	1520.6	1543.0	1626.6	1685.7	1702.0
42.5°	148.8	187.5	589.1	799.0	1302.5	1455.4	1473.7	1506.3	1602.1	1665.3	1683.7
45°	136.6	167.1	527.9	737.9	1255.6	1400.3	1426.8	1471.7	1573.6	1634.7	1651.0
47.5°	124.3	152.9	464.7	674.7	1204.7	1345.3	1380.0	1430.9	1534.9	1594.0	1608.2
50°	114.1	138.6	401.6	607.4	1149.6	1286.2	1327.0	1380.0	1486.0	1541.0	1559.3
52.5°	106.0	126.4	342.4	540.2	1086.4	1225.0	1271.9	1327.0	1426.8	1479.8	1492.1
55°	97.8	116.2	291.5	468.8	1021.2	1159.8	1210.8	1263.8	1361.6	1406.5	1414.6
57.5°	93.8	108.0	248.7	401.6	951.9	1086.4	1143.5	1192.4	1284.2	1318.8	1327.0
60°	87.6	101.9	216.1	344.5	876.5	1017.1	1066.1	1115.0	1192.4	1221.0	1227.1
62.5°	81.5	97.8	191.6	289.4	799.0	935.6	984.5	1029.4	1094.6	1115.0	1123.1
65°	77.5	93.8	173.3	248.7	719.5	850.0	898.9	937.6	990.6	1011.0	1015.1
67.5°	73.4	89.7	159.0	214.0	640.0	764.4	801.1	837.8	878.5	898.9	901.0
70°	67.3	85.6	146.8	189.6	558.5	666.5	697.1	735.8	768.5	778.6	784.8
72.5°	63.2	79.5	138.6	171.2	474.9	572.8	601.3	623.7	652.3	662.5	662.5
75°	57.1	71.3	130.5	152.9	389.3	468.8	493.3	515.7	538.1	542.2	536.1
77.5°	51.0	63.2	112.1	128.4	303.7	371.0	391.4	403.6	421.9	426.0	428.1
80°	42.8	55.0	87.6	99.9	220.1	273.1	287.4	297.6	313.9	313.9	318.0
82.5°	32.6	42.8	63.2	71.3	148.8	187.5	199.8	205.9	216.1	216.1	216.1
85°	20.4	26.5	40.8	46.9	89.7	114.1	122.3	124.3	132.5	134.5	134.5
87.5°	10.2	14.3	26.5	28.5	46.9	59.1	59.1	63.2	63.2	61.2	59.1
90°	1.2	2.2	3.1	3.4	5.3	7.9	9.2	8.1	6.1	4.6	4.6
92.5°	4.8	13.0	21.2	23.3	32.8	45.4	51.6	45.2	32.4	22.9	22.0
95°	11.6	26.6	41.6	45.4	80.5	127.4	150.9	134.7	102.1	77.8	75.1
97.5°	20.0	33.2	46.5	49.8	108.5	186.7	225.8	215.5	195.0	179.6	174.4
100°	26.6	38.5	50.6	53.6	118.7	205.5	248.8	249.6	251.1	252.2	246.0
102.5°	32.1	43.4	54.5	57.3	123.3	211.3	255.4	268.4	294.6	314.3	308.9
105°	41.5	51.0	60.5	62.9	126.8	212.0	254.6	283.9	342.6	386.6	383.8
107.5°	51.2	60.0	68.8	71.1	127.4	202.6	240.2	281.1	363.0	424.3	425.0
110°	57.7	65.7	73.6	75.6	126.5	194.2	228.1	273.9	365.4	433.9	436.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	64.1	71.7	79.3	81.2	126.5	186.9	217.1	263.9	357.6	427.8	432.3
115°	73.7	80.8	87.8	89.5	127.7	178.5	204.0	249.1	339.3	406.9	413.3
117.5°	83.3	89.6	96.0	97.6	130.0	173.3	195.0	235.7	317.0	378.1	385.1
120°	88.8	94.8	100.8	102.3	132.0	171.6	191.4	228.5	302.9	358.7	365.6
122.5°	94.2	100.3	106.3	107.8	134.7	170.6	188.5	222.0	289.0	339.3	346.1
125°	102.5	108.1	113.6	115.0	138.5	169.9	185.6	214.0	270.9	313.6	319.8
127.5°	109.3	114.8	120.4	121.8	142.2	169.4	183.0	207.4	256.3	292.9	298.2
130°	112.9	118.9	124.9	126.4	144.9	169.7	182.0	203.8	247.2	279.8	284.7
132.5°	116.7	122.7	128.6	130.2	147.2	169.9	181.2	200.7	239.6	268.8	273.1
135°	122.2	127.7	133.1	134.5	149.6	169.8	179.8	196.1	228.7	253.1	256.9
137.5°	127.9	133.3	138.7	140.0	153.2	170.8	179.6	193.4	220.9	241.5	244.6
140°	132.6	137.6	142.5	143.8	155.5	171.0	178.7	190.6	214.4	232.2	235.1
142.5°	136.2	140.8	145.4	146.5	157.2	171.5	178.7	189.1	210.1	225.7	228.2
145°	141.7	145.7	149.8	150.8	159.7	171.5	177.5	186.0	203.1	215.9	217.8
147.5°	147.3	151.2	155.1	156.1	163.2	172.7	177.5	184.2	197.6	207.7	209.3
150°	150.9	154.4	158.0	158.9	165.1	173.4	177.5	183.2	194.5	203.0	204.3
152.5°	154.7	157.3	160.0	160.7	166.3	173.8	177.5	182.3	192.0	199.3	200.3
155°	160.2	162.2	164.2	164.7	169.0	174.7	177.5	181.3	189.0	194.8	195.5
157.5°	164.3	166.2	168.1	168.6	171.6	175.5	177.5	180.4	186.5	191.0	191.4
160°	167.1	168.6	170.1	170.5	172.8	175.9	177.5	180.0	185.2	189.0	189.3
162.5°	169.8	171.0	172.1	172.4	174.1	176.3	177.5	179.6	184.0	187.3	187.5
165°	172.9	173.8	174.9	175.1	175.9	177.0	177.5	179.0	182.1	184.4	184.7
167.5°	175.6	176.1	176.6	176.7	177.4	178.3	178.7	179.7	181.7	183.2	183.3
170°	177.5	177.9	178.4	178.5	178.6	178.7	178.7	179.7	181.7	183.2	183.2
172.5°	178.4	178.5	178.7	178.7	178.7	178.7	178.7	179.5	181.1	182.3	182.2
175°	179.8	179.8	179.8	179.8	179.4	178.9	178.7	179.1	180.2	181.0	181.0
177.5°	179.8	179.8	179.8	179.8	179.5	179.1	178.9	179.3	180.1	180.8	180.7
180°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	633.9	633.9
2.5°	676.7	672.7
5°	870.4	874.5
7.5°	1172.1	1170.0
10°	1457.4	1475.8
12.5°	1665.3	1669.4
15°	1791.7	1799.8
17.5°	1840.6	1842.6
20°	1842.6	1838.5
22.5°	1820.2	1816.1
25°	1793.7	1791.7
27.5°	1769.2	1771.3
30°	1759.1	1765.2
32.5°	1759.1	1769.2
35°	1763.1	1773.3
37.5°	1761.1	1773.3
40°	1752.9	1767.2
42.5°	1730.5	1740.7
45°	1695.9	1708.1
47.5°	1651.0	1659.2
50°	1594.0	1602.1
52.5°	1522.6	1524.7
55°	1437.0	1445.2
57.5°	1345.3	1347.3
60°	1243.4	1249.5
62.5°	1135.4	1135.4
65°	1021.2	1025.3
67.5°	903.0	913.2
70°	782.7	784.8
72.5°	664.5	664.5
75°	542.2	544.2
77.5°	426.0	426.0
80°	315.9	318.0
82.5°	218.1	222.2
85°	136.6	136.6
87.5°	63.2	57.1
90°	4.6	4.6
92.5°	18.3	14.7
95°	64.0	53.0
97.5°	153.4	132.3
100°	221.0	195.9
102.5°	287.5	266.0
105°	372.3	360.7
107.5°	427.8	430.6
110°	449.0	461.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	450.8	469.3
115°	438.8	464.5
117.5°	413.5	441.9
120°	393.1	420.7
122.5°	373.2	400.4
125°	344.8	369.9
127.5°	319.4	340.5
130°	304.3	323.8
132.5°	290.6	308.1
135°	271.9	287.0
137.5°	257.0	269.2
140°	246.6	258.2
142.5°	238.1	248.0
145°	225.3	232.9
147.5°	215.5	221.7
150°	209.3	214.4
152.5°	204.0	207.9
155°	197.9	200.5
157.5°	193.2	195.0
160°	190.3	191.4
162.5°	188.5	189.4
165°	185.7	186.8
167.5°	183.8	184.2
170°	183.2	183.2
172.5°	181.8	181.5
175°	181.0	181.0
177.5°	180.2	179.8
180°	179.8	179.8



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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	8.17	9.48	8.80	10.13	10.87	21.34	22.64	21.97	23.29	24.04
	3H	8.91	10.09	9.55	10.75	11.53	23.20	24.38	23.85	25.04	25.82
	4H	9.23	10.34	9.89	11.01	11.81	23.86	24.98	24.53	25.65	26.44
	6H	9.50	10.53	10.18	11.21	12.02	24.31	25.34	24.99	26.03	26.84
	8H	9.58	10.57	10.27	11.27	12.08	24.44	25.43	25.13	26.13	26.95
	12H	9.61	10.56	10.31	11.25	12.10	24.53	25.47	25.22	26.16	27.01
4H	2H	15.43	16.54	16.10	17.22	18.01	21.66	22.78	22.33	23.45	24.24
	3H	17.04	17.97	17.72	18.68	19.50	23.74	24.68	24.42	25.39	26.20
	4H	17.15	18.00	17.85	18.72	19.56	24.53	25.38	25.22	26.09	26.93
	6H	17.19	17.93	17.91	18.67	19.52	25.09	25.83	25.80	26.57	27.42
	8H	17.18	17.87	17.90	18.61	19.47	25.26	25.95	25.98	26.69	27.55
	12H	17.16	17.78	17.90	18.54	19.41	25.37	26.00	26.11	26.76	27.63
8H	4H	18.63	19.33	19.35	20.06	20.93	24.62	25.32	25.35	26.05	26.92
	6H	18.89	19.47	19.65	20.25	21.12	25.27	25.85	26.02	26.63	27.49
	8H	18.92	19.43	19.68	20.21	21.10	25.49	26.01	26.26	26.79	27.67
	12H	18.91	19.36	19.68	20.13	21.08	25.66	26.11	26.42	26.88	27.82
12H	4H	18.80	19.42	19.54	20.18	21.05	24.60	25.23	25.34	25.99	26.86
	6H	19.16	19.67	19.92	20.45	21.34	25.26	25.78	26.02	26.55	27.44
	8H	19.25	19.70	20.02	20.47	21.42	25.51	25.96	26.28	26.73	27.68