

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: P936346

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936346
REPORT IS A COMBINATION OF REPORTS P933454 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-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

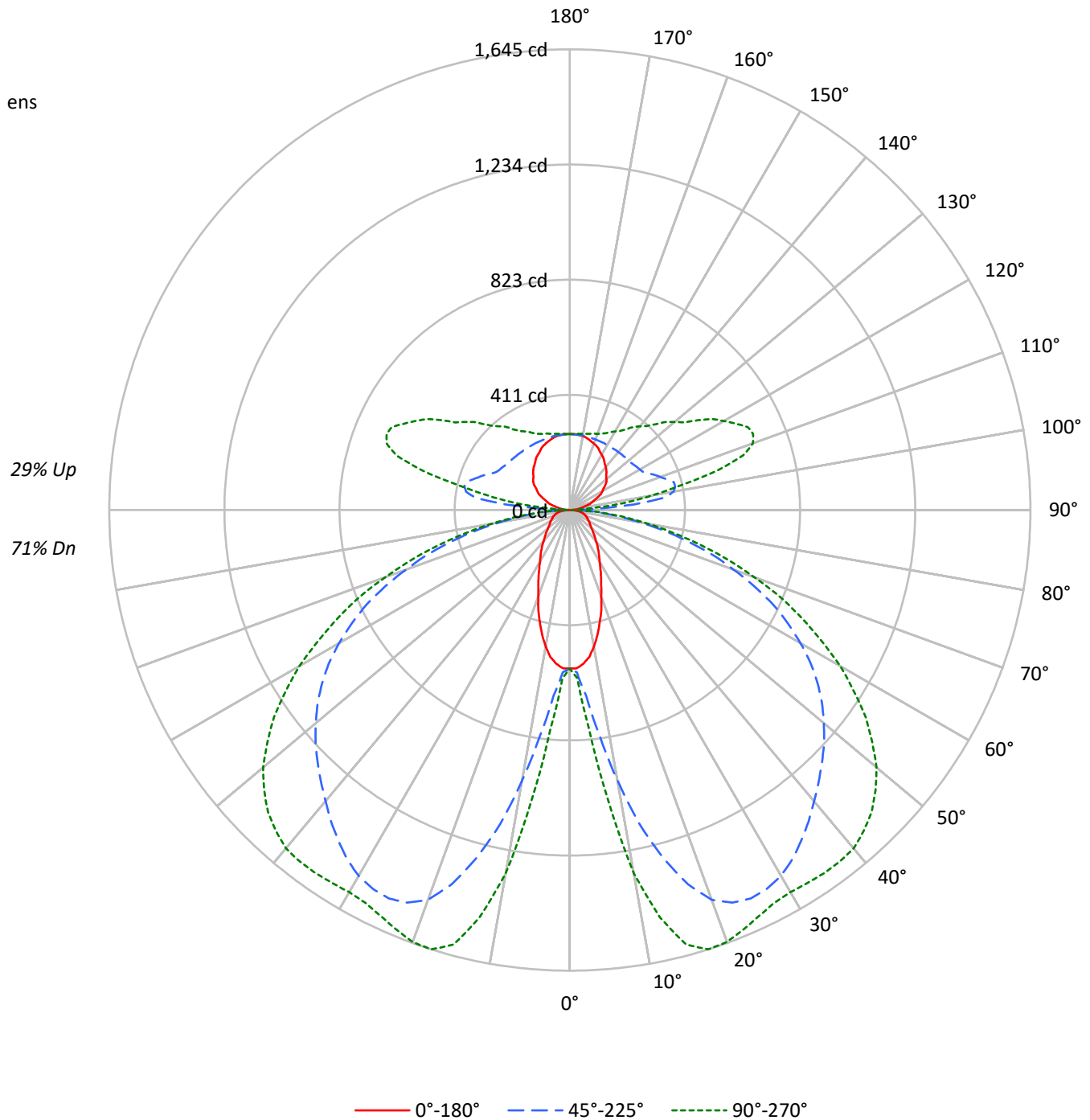
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6138.3 lumens
Efficiency: N/A
Efficacy: 102.3 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: Semi-Direct

Input Watts (W): 60
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
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°	2625	2625	2625
5°	2564	3034	3529
10°	2326	4423	5850
15°	1977	5779	7064
20°	1610	6696	7199
25°	1343	7007	7053
30°	1132	7052	7040
35°	1001	6935	7222
40°	872	6783	7410
45°	790	6671	7439
50°	725	6570	7315
55°	694	6424	6992
60°	710	6141	6479
65°	739	5713	5775
70°	787	4982	4879
75°	872	4062	3807
80°	953	2817	2566
85°	848	1495	1313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7439 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.2
10°-20°	324.4	5.3
20°-30°	567.4	9.2
30°-40°	730.4	11.9
40°-50°	815.9	13.3
50°-60°	781.4	12.7
60°-70°	619.2	10.1
70°-80°	364.1	5.9
80°-90°	102.2	1.7
90°-100°	132.3	2.2
100°-110°	347.9	5.7
110°-120°	360.8	5.9
120°-130°	289.4	4.7
130°-140°	227.1	3.7
140°-150°	174.3	2.8
150°-160°	125.5	2.0
160°-170°	76.8	1.3
170°-180°	25.9	0.4
0°-30°	965.0	15.7
0°-40°	1695.4	27.6
0°-60°	3292.7	53.6
0°-90°	4378.2	71.3
90°-120°	841.0	13.7
90°-150°	1531.8	25.0
90°-180°	1760.0	28.7
0°-180°	6138.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	551	591	666	753	780	51
15°	413	762	1284	1557	1606	115
25°	264	864	1530	1597	1599	122
35°	178	826	1441	1523	1583	111
45°	122	659	1274	1459	1525	94
55°	87	418	1081	1255	1290	80
65°	69	222	802	902	915	69
75°	51	136	440	484	486	53
85°	18	42	109	120	122	19
90°	2	5	14	7	7	3
95°	18	68	228	118	80	19
105°	63	95	385	584	545	66
115°	111	135	308	615	702	110
125°	155	174	280	474	559	138
135°	185	203	272	382	433	143
145°	214	228	268	326	352	134
155°	242	249	268	294	303	111
165°	261	265	268	279	282	74
175°	272	272	270	273	273	26
180°	272	272	272	272	272	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8
2.5°	565.8	565.8	569.4	571.3	574.9	576.7	580.3	584.0	594.9	596.7	600.4
5°	551.2	558.5	582.2	591.3	616.7	651.3	665.9	689.5	738.6	753.2	762.3
7.5°	529.4	545.8	604.0	618.6	682.2	773.2	811.4	862.3	940.6	978.8	1009.7
10°	494.8	529.4	633.1	667.7	771.4	909.6	980.6	1051.6	1169.9	1222.6	1242.7
12.5°	456.6	513.0	664.0	711.3	860.5	1062.5	1148.1	1226.3	1360.9	1431.9	1442.8
15°	413.0	489.4	693.1	762.3	955.1	1189.9	1284.5	1380.9	1506.4	1557.4	1570.1
17.5°	374.8	471.2	720.4	793.2	1027.9	1304.5	1400.9	1481.0	1582.9	1617.4	1626.5
20°	327.5	442.1	738.6	833.2	1104.4	1388.2	1481.0	1542.8	1612.0	1633.8	1637.4
22.5°	292.9	411.2	749.5	847.8	1155.3	1439.1	1517.4	1566.5	1613.8	1621.1	1622.9
25°	263.8	376.6	747.7	864.2	1199.0	1470.1	1530.1	1566.5	1593.8	1597.4	1597.4
27.5°	236.5	338.4	740.4	867.8	1231.7	1477.3	1524.6	1550.1	1562.8	1570.1	1570.1
30°	212.9	302.0	722.3	860.5	1246.3	1470.1	1508.3	1521.0	1533.7	1544.7	1550.1
32.5°	194.7	267.4	695.0	846.0	1248.1	1451.9	1479.2	1486.4	1504.6	1530.1	1539.2
35°	178.3	232.9	664.0	826.0	1237.2	1422.8	1441.0	1448.2	1484.6	1522.8	1535.6
37.5°	161.9	207.4	624.0	791.4	1220.8	1388.2	1400.9	1413.7	1470.1	1515.5	1530.1
40°	145.5	185.6	576.7	753.2	1195.4	1346.4	1357.3	1377.3	1451.9	1504.6	1519.2
42.5°	132.8	167.4	525.8	713.2	1162.6	1299.1	1315.4	1344.5	1430.0	1486.4	1502.8
45°	121.9	149.2	471.2	658.6	1120.8	1249.9	1273.6	1313.6	1404.6	1459.1	1473.7
47.5°	111.0	136.4	414.8	602.2	1075.3	1200.8	1231.7	1277.2	1370.0	1422.8	1435.5
50°	101.9	123.7	358.4	542.1	1026.1	1148.1	1184.4	1231.7	1326.3	1375.5	1391.8
52.5°	94.6	112.8	305.6	482.1	969.7	1093.5	1135.3	1184.4	1273.6	1320.9	1331.8
55°	87.3	103.7	260.2	418.4	911.5	1035.3	1080.7	1128.0	1215.4	1255.4	1262.7
57.5°	83.7	96.4	222.0	358.4	849.6	969.7	1020.6	1064.4	1146.2	1177.2	1184.4
60°	78.2	91.0	192.8	307.5	782.3	907.8	951.5	995.1	1064.4	1089.8	1095.3
62.5°	72.8	87.3	171.0	258.3	713.2	835.0	878.7	918.7	977.0	995.1	1002.4
65°	69.1	83.7	154.6	222.0	642.2	758.6	802.3	836.9	884.2	902.4	906.0
67.5°	65.5	80.0	141.9	191.0	571.3	682.2	715.0	747.7	784.1	802.3	804.1
70°	60.0	76.4	131.0	169.2	498.5	594.9	622.2	656.8	685.9	695.0	700.4
72.5°	56.4	71.0	123.7	152.8	423.9	511.2	536.7	556.7	582.2	591.3	591.3
75°	50.9	63.7	116.4	136.4	347.5	418.4	440.3	460.3	480.3	483.9	478.5
77.5°	45.5	56.4	100.1	114.6	271.1	331.1	349.3	360.2	376.6	380.2	382.0
80°	38.2	49.1	78.2	89.1	196.5	243.8	256.5	265.6	280.2	280.2	283.8
82.5°	29.1	38.2	56.4	63.7	132.8	167.4	178.3	183.7	192.8	192.8	192.8
85°	18.2	23.7	36.4	41.8	80.0	101.9	109.2	111.0	118.3	120.1	120.1
87.5°	9.1	12.7	23.7	25.5	41.8	52.8	52.8	56.4	56.4	54.6	52.8
90°	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.3	9.2	6.9	6.9
92.5°	7.3	19.6	32.1	35.2	49.5	68.5	78.0	68.3	49.1	34.7	33.3
95°	17.5	40.1	62.9	68.5	121.6	192.5	228.0	203.4	154.4	117.5	113.3
97.5°	30.3	50.3	70.2	75.2	163.8	282.0	341.1	325.7	294.6	271.3	263.4
100°	40.1	58.2	76.3	80.9	179.2	310.3	375.9	377.0	379.3	381.0	371.6
102.5°	48.5	65.4	82.3	86.5	186.3	319.3	385.8	405.5	445.0	474.6	466.6
105°	62.7	77.0	91.4	95.0	191.6	320.3	384.7	429.0	517.6	584.0	579.6
107.5°	77.2	90.6	104.0	107.3	192.5	306.0	362.8	424.5	548.1	640.8	641.9
110°	87.1	99.2	111.2	114.3	191.0	293.4	344.6	413.6	551.8	655.4	659.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.8	108.2	119.7	122.6	191.1	282.4	328.0	398.7	540.1	646.1	653.1
115°	111.3	121.9	132.5	135.2	192.8	269.7	308.1	376.2	512.5	614.6	624.3
117.5°	125.7	135.4	145.0	147.5	196.5	261.8	294.4	355.9	478.8	571.1	581.8
120°	134.1	143.2	152.3	154.5	199.4	259.2	289.0	345.1	457.5	541.7	552.1
122.5°	142.3	151.5	160.6	162.9	203.6	257.7	284.8	335.4	436.5	512.4	522.7
125°	154.9	163.3	171.6	173.6	209.2	256.6	280.3	323.2	409.2	473.6	483.0
127.5°	165.1	173.5	181.9	184.0	214.9	255.9	276.4	313.4	387.1	442.4	450.5
130°	170.6	179.7	188.7	190.9	218.9	256.3	275.0	307.8	373.5	422.7	430.1
132.5°	176.2	185.3	194.3	196.6	222.3	256.6	273.7	303.1	361.9	406.0	412.6
135°	184.6	192.8	201.1	203.2	226.0	256.3	271.5	296.2	345.4	382.3	388.0
137.5°	193.1	201.3	209.5	211.6	231.4	257.9	271.2	292.0	333.6	364.8	369.4
140°	200.2	207.8	215.3	217.2	234.8	258.2	269.9	287.9	323.8	350.8	355.1
142.5°	205.8	212.7	219.7	221.4	237.6	259.2	269.9	285.7	317.3	340.9	344.7
145°	214.1	220.2	226.2	227.8	241.2	259.2	268.1	281.0	306.8	326.2	329.0
147.5°	222.5	228.4	234.3	235.8	246.5	260.9	268.1	278.3	298.5	313.7	316.1
150°	228.0	233.3	238.6	240.0	249.3	261.8	268.1	276.6	293.8	306.6	308.5
152.5°	233.6	237.6	241.7	242.7	251.2	262.4	268.1	275.3	290.0	301.0	302.5
155°	242.0	245.0	248.0	248.7	255.2	263.8	268.1	273.9	285.5	294.3	295.2
157.5°	248.1	251.1	254.0	254.7	259.2	265.1	268.1	272.6	281.6	288.4	289.1
160°	252.3	254.6	256.9	257.4	261.0	265.7	268.1	272.0	279.7	285.5	285.9
162.5°	256.5	258.2	259.9	260.3	262.9	266.3	268.1	271.3	277.9	282.8	283.2
165°	261.2	262.7	264.2	264.6	265.8	267.3	268.1	270.4	275.1	278.6	279.0
167.5°	265.3	266.1	266.8	267.0	268.0	269.3	269.9	271.4	274.5	276.8	277.0
170°	268.1	268.8	269.5	269.7	269.8	269.9	269.9	271.4	274.5	276.8	276.8
172.5°	269.5	269.7	269.9	269.9	269.9	269.9	269.9	271.1	273.5	275.3	275.2
175°	271.5	271.5	271.5	271.5	271.0	270.3	269.9	270.6	272.2	273.3	273.3
177.5°	271.5	271.5	271.5	271.5	271.1	270.5	270.3	270.9	272.1	273.0	272.8
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	565.8	565.8
2.5°	604.0	600.4
5°	776.8	780.5
7.5°	1046.2	1044.4
10°	1300.9	1317.2
12.5°	1486.4	1490.1
15°	1599.2	1606.5
17.5°	1642.9	1644.7
20°	1644.7	1641.1
22.5°	1624.7	1621.1
25°	1601.1	1599.2
27.5°	1579.2	1581.0
30°	1570.1	1575.6
32.5°	1570.1	1579.2
35°	1573.8	1582.9
37.5°	1571.9	1582.9
40°	1564.7	1577.4
42.5°	1544.7	1553.8
45°	1513.7	1524.6
47.5°	1473.7	1481.0
50°	1422.8	1430.0
52.5°	1359.1	1360.9
55°	1282.7	1290.0
57.5°	1200.8	1202.6
60°	1109.8	1115.3
62.5°	1013.3	1013.3
65°	911.5	915.1
67.5°	805.9	815.0
70°	698.6	700.4
72.5°	593.1	593.1
75°	483.9	485.7
77.5°	380.2	380.2
80°	282.0	283.8
82.5°	194.7	198.3
85°	121.9	121.9
87.5°	56.4	50.9
90°	6.9	6.9
92.5°	27.7	22.2
95°	96.7	80.0
97.5°	231.6	199.8
100°	333.7	295.9
102.5°	434.2	401.8
105°	562.2	544.8
107.5°	646.1	650.3
110°	678.0	696.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	681.0	708.8
115°	662.9	701.5
117.5°	624.6	667.5
120°	593.7	635.4
122.5°	563.7	604.7
125°	520.9	558.7
127.5°	482.3	514.2
130°	459.5	489.0
132.5°	439.0	465.4
135°	410.7	433.4
137.5°	388.1	406.7
140°	372.5	390.0
142.5°	359.7	374.6
145°	340.4	351.7
147.5°	325.5	334.9
150°	316.2	323.8
152.5°	308.2	313.9
155°	299.0	302.8
157.5°	291.8	294.4
160°	287.4	289.0
162.5°	284.6	286.1
165°	280.5	282.1
167.5°	277.6	278.3
170°	276.8	276.8
172.5°	274.6	274.1
175°	273.3	273.3
177.5°	272.2	271.5
180°	271.5	271.5



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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	6.10	7.25	6.84	8.02	8.95	19.28	20.43	20.02	21.20	22.13
	3H	6.83	7.87	7.58	8.65	9.60	21.14	22.18	21.89	22.96	23.91
	4H	7.14	8.12	7.91	8.91	9.88	21.80	22.78	22.57	23.57	24.54
	6H	7.40	8.31	8.19	9.11	10.09	22.24	23.15	23.03	23.95	24.93
	8H	7.48	8.35	8.27	9.17	10.15	22.37	23.24	23.17	24.06	25.04
	12H	7.51	8.34	8.31	9.15	10.16	22.45	23.28	23.25	24.09	25.10
4H	2H	13.35	14.33	14.12	15.12	16.09	19.59	20.57	20.36	21.36	22.33
	3H	14.94	15.77	15.73	16.59	17.58	21.66	22.48	22.45	23.31	24.29
	4H	15.05	15.80	15.85	16.63	17.64	22.44	23.19	23.24	24.01	25.03
	6H	15.08	15.73	15.90	16.58	17.60	22.99	23.65	23.81	24.50	25.51
	8H	15.06	15.68	15.89	16.52	17.55	23.16	23.78	23.99	24.62	25.65
	12H	15.03	15.59	15.88	16.45	17.49	23.27	23.83	24.12	24.69	25.73
8H	4H	16.52	17.13	17.34	17.97	19.01	22.52	23.14	23.35	23.98	25.01
	6H	16.78	17.29	17.63	18.17	19.20	23.17	23.68	24.02	24.56	25.59
	8H	16.80	17.25	17.66	18.13	19.18	23.39	23.84	24.25	24.72	25.77
	12H	16.78	17.18	17.65	18.05	19.15	23.55	23.95	24.42	24.82	25.92
12H	4H	16.68	17.23	17.52	18.09	19.13	22.49	23.04	23.34	23.91	24.94
	6H	17.04	17.49	17.90	18.37	19.42	23.15	23.61	24.02	24.49	25.53
	8H	17.12	17.52	17.99	18.39	19.50	23.40	23.80	24.27	24.67	25.77