

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: P936235

Luminaire Tested: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

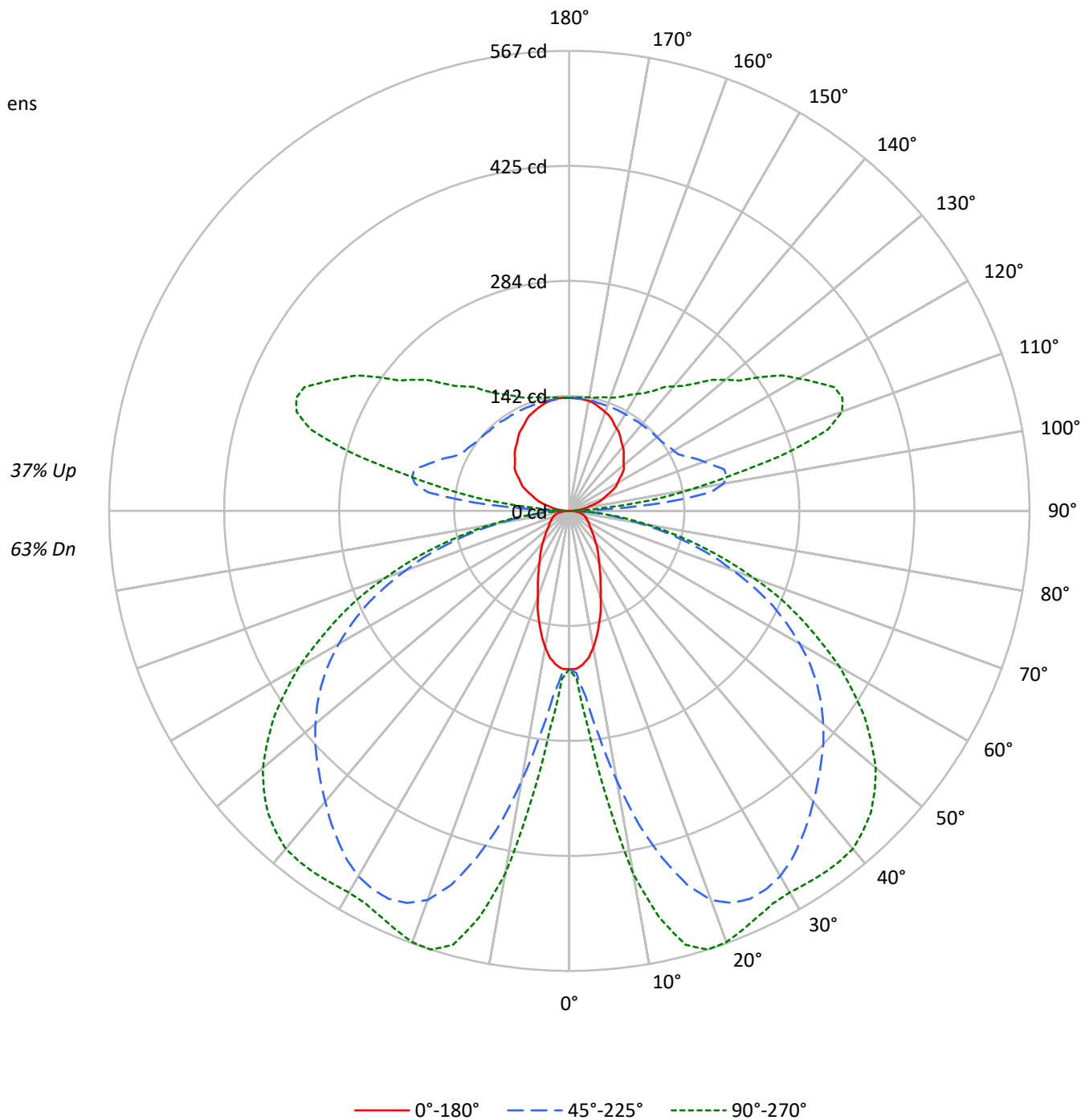
Test Method: LM-79-2019  
Report Number: P936235  
REPORT IS A COMBINATION OF REPORTS P933437 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2413.4 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 22  
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: P936235  
CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P936235

CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

**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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56	51
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46	42
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38	34
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32	29
5	68	56	47	41	64	52	45	39	46	40	35	40	35	31	35	31	28	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	18
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18	16
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1809	1809	1809
5°	1766	2090	2432
10°	1600	3044	4033
15°	1359	3974	4869
20°	1105	4602	4962
25°	920	4813	4862
30°	775	4839	4853
35°	684	4755	4978
40°	596	4647	5107
45°	538	4566	5128
50°	492	4493	5043
55°	470	4388	4818
60°	479	4190	4466
65°	496	3890	3981
70°	526	3385	3363
75°	577	2752	2624
80°	618	1902	1770
85°	522	1006	905

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5128 cd/sqm



TEST NUMBER: P936235

CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.2	1.0
10°-20°	111.8	4.6
20°-30°	195.6	8.1
30°-40°	251.7	10.4
40°-50°	281.2	11.7
50°-60°	269.3	11.2
60°-70°	213.4	8.8
70°-80°	125.5	5.2
80°-90°	35.4	1.5
90°-100°	68.0	2.8
100°-110°	178.8	7.4
110°-120°	185.4	7.7
120°-130°	148.7	6.2
130°-140°	116.7	4.8
140°-150°	89.5	3.7
150°-160°	64.5	2.7
160°-170°	39.4	1.6
170°-180°	13.3	0.6
0°-30°	332.6	13.8
0°-40°	584.3	24.2
0°-60°	1134.8	47.0
0°-90°	1509.2	62.5
90°-120°	432.1	17.9
90°-150°	787.0	32.6
90°-180°	904.0	37.5
0°-180°	2413.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	195	195	195	195	195	
5°	190	204	230	260	269	18
15°	142	263	443	537	554	40
25°	91	298	527	550	551	42
35°	61	285	497	525	546	38
45°	42	227	439	503	526	32
55°	30	144	372	433	444	27
65°	24	76	276	311	315	24
75°	18	47	152	167	167	18
85°	6	14	38	41	42	7
90°	1	3	7	4	4	1
95°	9	35	117	60	41	10
105°	32	49	198	300	280	34
115°	57	69	158	316	360	56
125°	80	89	144	243	287	71
135°	95	104	140	196	223	73
145°	110	117	138	168	181	69
155°	124	128	138	151	156	57
165°	134	136	138	143	145	38
175°	140	140	139	140	140	13
180°	140	140	140	140	140	



TEST NUMBER: P936235

CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	195.0	195.0	195.0	195.0	195.0	195.0	195.0	195.0	195.0	195.0	195.0
2.5°	195.0	195.0	196.3	196.8	198.2	198.8	200.0	201.2	205.1	205.6	206.9
5°	190.0	192.5	200.7	203.8	212.6	224.5	229.5	237.7	254.6	259.6	262.7
7.5°	182.5	188.2	208.2	213.2	235.2	266.5	279.7	297.2	324.2	337.3	348.0
10°	170.6	182.5	218.3	230.1	265.8	313.5	338.0	362.5	403.2	421.4	428.3
12.5°	157.4	176.8	228.9	245.2	296.6	366.2	395.7	422.7	469.0	493.5	497.3
15°	142.4	168.7	238.9	262.7	329.2	410.1	442.7	476.0	519.2	536.7	541.1
17.5°	129.2	162.5	248.4	273.4	354.3	449.6	482.9	510.4	545.5	557.5	560.5
20°	112.9	152.4	254.6	287.2	380.6	478.5	510.4	531.8	555.6	563.1	564.4
22.5°	100.9	141.7	258.4	292.2	398.2	496.0	523.0	539.9	556.2	558.7	559.3
25°	90.9	129.8	257.7	297.9	413.2	506.6	527.4	539.9	549.3	550.5	550.5
27.5°	81.5	116.7	255.2	299.1	424.5	509.1	525.5	534.3	538.7	541.1	541.1
30°	73.4	104.1	248.9	296.6	429.5	506.6	519.8	524.2	528.6	532.4	534.3
32.5°	67.1	92.2	239.6	291.5	430.2	500.3	509.8	512.3	518.6	527.4	530.4
35°	61.4	80.3	228.9	284.7	426.4	490.3	496.6	499.1	511.7	524.8	529.2
37.5°	55.8	71.5	215.1	272.7	420.7	478.5	482.9	487.3	506.6	522.3	527.4
40°	50.2	63.9	198.8	259.6	412.0	464.0	467.8	474.6	500.3	518.6	523.6
42.5°	45.8	57.7	181.2	245.8	400.7	447.7	453.3	463.4	492.9	512.3	517.9
45°	42.0	51.4	162.5	226.9	386.2	430.8	438.9	452.8	484.1	502.9	507.9
47.5°	38.2	47.0	143.0	207.6	370.6	413.9	424.5	440.2	472.2	490.3	494.7
50°	35.1	42.6	123.6	186.8	353.7	395.7	408.2	424.5	457.2	474.1	479.7
52.5°	32.6	38.9	105.3	166.2	334.3	376.9	391.3	408.2	438.9	455.2	459.0
55°	30.1	35.7	89.6	144.2	314.2	356.8	372.5	388.7	418.8	432.7	435.2
57.5°	28.9	33.3	76.5	123.6	292.8	334.3	351.7	366.8	395.0	405.7	408.2
60°	26.9	31.3	66.5	106.0	269.7	312.9	328.0	343.0	366.8	375.6	377.5
62.5°	25.1	30.1	59.0	89.1	245.8	287.8	302.8	316.7	336.7	343.0	345.5
65°	23.8	28.9	53.3	76.5	221.3	261.4	276.5	288.5	304.7	311.0	312.3
67.5°	22.6	27.6	48.9	65.8	196.8	235.2	246.4	257.7	270.2	276.5	277.1
70°	20.7	26.4	45.1	58.3	171.8	205.1	214.4	226.4	236.4	239.6	241.4
72.5°	19.4	24.5	42.6	52.7	146.1	176.2	185.0	191.9	200.7	203.8	203.8
75°	17.6	22.0	40.1	47.0	119.7	144.2	151.7	158.6	165.5	166.8	164.9
77.5°	15.7	19.4	34.5	39.5	93.5	114.1	120.4	124.1	129.8	131.0	131.7
80°	13.2	16.9	26.9	30.8	67.8	84.0	88.4	91.5	96.6	96.6	97.9
82.5°	10.0	13.2	19.4	22.0	45.8	57.7	61.4	63.4	66.5	66.5	66.5
85°	6.3	8.1	12.5	14.4	27.6	35.1	37.7	38.2	40.8	41.4	41.4
87.5°	3.2	4.4	8.1	8.8	14.4	18.2	18.2	19.4	19.4	18.8	18.2
90°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.6	3.6
92.5°	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2	17.8	17.0
95°	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3	60.4	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3	139.4	135.3
100°	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9	195.7	190.9
102.5°	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6	243.9	239.7
105°	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9	300.0	297.8
107.5°	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6	329.3	329.9
110°	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5	336.8	339.1



TEST NUMBER: P936235

CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.1	168.5	204.9	277.5	332.0	335.6
115°	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3	315.7	320.7
117.5°	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0	293.4	298.9
120°	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1	278.4	283.7
122.5°	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2	263.2	268.4
125°	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2	243.3	248.2
127.5°	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9	227.3	231.4
130°	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9	217.2	221.0
132.5°	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9	208.6	212.0
135°	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4	196.4	199.3
137.5°	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3	187.4	189.8
140°	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4	180.2	182.5
142.5°	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0	175.2	177.1
145°	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6	167.6	169.1
147.5°	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4	161.2	162.5
150°	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0	157.6	158.5
152.5°	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0	154.7	155.4
155°	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7	151.2	151.7
157.5°	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7	148.2	148.5
160°	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7	146.7	146.8
162.5°	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7	145.3	145.4
165°	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3	143.1	143.3
167.5°	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0	142.2	142.3
170°	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0	142.2	142.2
172.5°	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5	141.4	141.3
175°	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8	140.4	140.4
177.5°	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7	140.2	140.1
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P936235

CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	195.0	195.0
2.5°	208.2	206.9
5°	267.8	269.0
7.5°	360.5	360.0
10°	448.4	454.0
12.5°	512.3	513.5
15°	551.2	553.7
17.5°	566.2	566.9
20°	566.9	565.6
22.5°	560.0	558.7
25°	551.9	551.2
27.5°	544.3	544.9
30°	541.1	543.1
32.5°	541.1	544.3
35°	542.4	545.5
37.5°	541.8	545.5
40°	539.2	543.6
42.5°	532.4	535.5
45°	521.7	525.5
47.5°	507.9	510.4
50°	490.3	492.9
52.5°	468.4	469.0
55°	442.1	444.5
57.5°	413.9	414.4
60°	382.5	384.4
62.5°	349.3	349.3
65°	314.2	315.4
67.5°	277.8	280.9
70°	240.8	241.4
72.5°	204.4	204.4
75°	166.8	167.4
77.5°	131.0	131.0
80°	97.2	97.9
82.5°	67.1	68.3
85°	42.0	42.0
87.5°	19.4	17.6
90°	3.6	3.6
92.5°	14.2	11.4
95°	49.7	41.1
97.5°	119.0	102.7
100°	171.5	152.1
102.5°	223.0	206.4
105°	288.9	279.9
107.5°	332.0	334.2
110°	348.4	357.7





TEST NUMBER: P936235

CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	349.9	364.2
115°	340.6	360.4
117.5°	320.9	342.9
120°	305.1	326.4
122.5°	289.6	310.7
125°	267.6	287.0
127.5°	247.8	264.1
130°	236.1	251.2
132.5°	225.5	239.1
135°	211.1	222.7
137.5°	199.4	209.0
140°	191.3	200.3
142.5°	184.8	192.5
145°	174.9	180.7
147.5°	167.2	172.1
150°	162.5	166.4
152.5°	158.3	161.3
155°	153.7	155.6
157.5°	149.9	151.3
160°	147.7	148.4
162.5°	146.2	146.9
165°	144.1	144.9
167.5°	142.5	142.9
170°	142.2	142.2
172.5°	141.0	140.8
175°	140.4	140.4
177.5°	139.8	139.5
180°	139.5	139.5



TEST NUMBER: P936235

CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-5000K

**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	4.12	5.16	4.95	6.02	7.10	17.26	18.29	18.09	19.16	20.23
	3H	4.84	5.77	5.68	6.64	7.75	19.09	20.03	19.94	20.90	22.00
	4H	5.15	6.03	6.01	6.91	8.02	19.74	20.62	20.60	21.50	22.61
	6H	5.41	6.22	6.28	7.11	8.24	20.16	20.98	21.04	21.87	22.99
	8H	5.48	6.26	6.36	7.16	8.29	20.28	21.06	21.17	21.97	23.09
	12H	5.50	6.25	6.39	7.14	8.30	20.35	21.09	21.24	21.99	23.15
4H	2H	11.33	12.21	12.19	13.09	14.20	17.55	18.44	18.42	19.32	20.43
	3H	12.91	13.66	13.79	14.57	15.70	19.60	20.34	20.48	21.25	22.38
	4H	13.02	13.70	13.91	14.60	15.76	20.36	21.04	21.25	21.95	23.10
	6H	13.04	13.63	13.94	14.56	15.71	20.90	21.49	21.81	22.42	23.58
	8H	13.02	13.57	13.93	14.50	15.67	21.06	21.61	21.97	22.54	23.71
	12H	12.99	13.48	13.92	14.43	15.60	21.16	21.65	22.08	22.59	23.77
8H	4H	14.47	15.02	15.38	15.94	17.11	20.44	20.99	21.35	21.91	23.09
	6H	14.72	15.17	15.65	16.14	17.31	21.07	21.52	22.00	22.49	23.66
	8H	14.74	15.14	15.69	16.10	17.29	21.28	21.69	22.23	22.64	23.83
	12H	14.72	15.07	15.67	16.02	17.26	21.43	21.78	22.38	22.73	23.97
12H	4H	14.62	15.11	15.55	16.06	17.23	20.40	20.90	21.33	21.84	23.02
	6H	14.98	15.38	15.92	16.34	17.53	21.05	21.46	22.00	22.41	23.60
	8H	15.05	15.41	16.00	16.36	17.60	21.28	21.64	22.23	22.59	23.83