

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: P936338

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

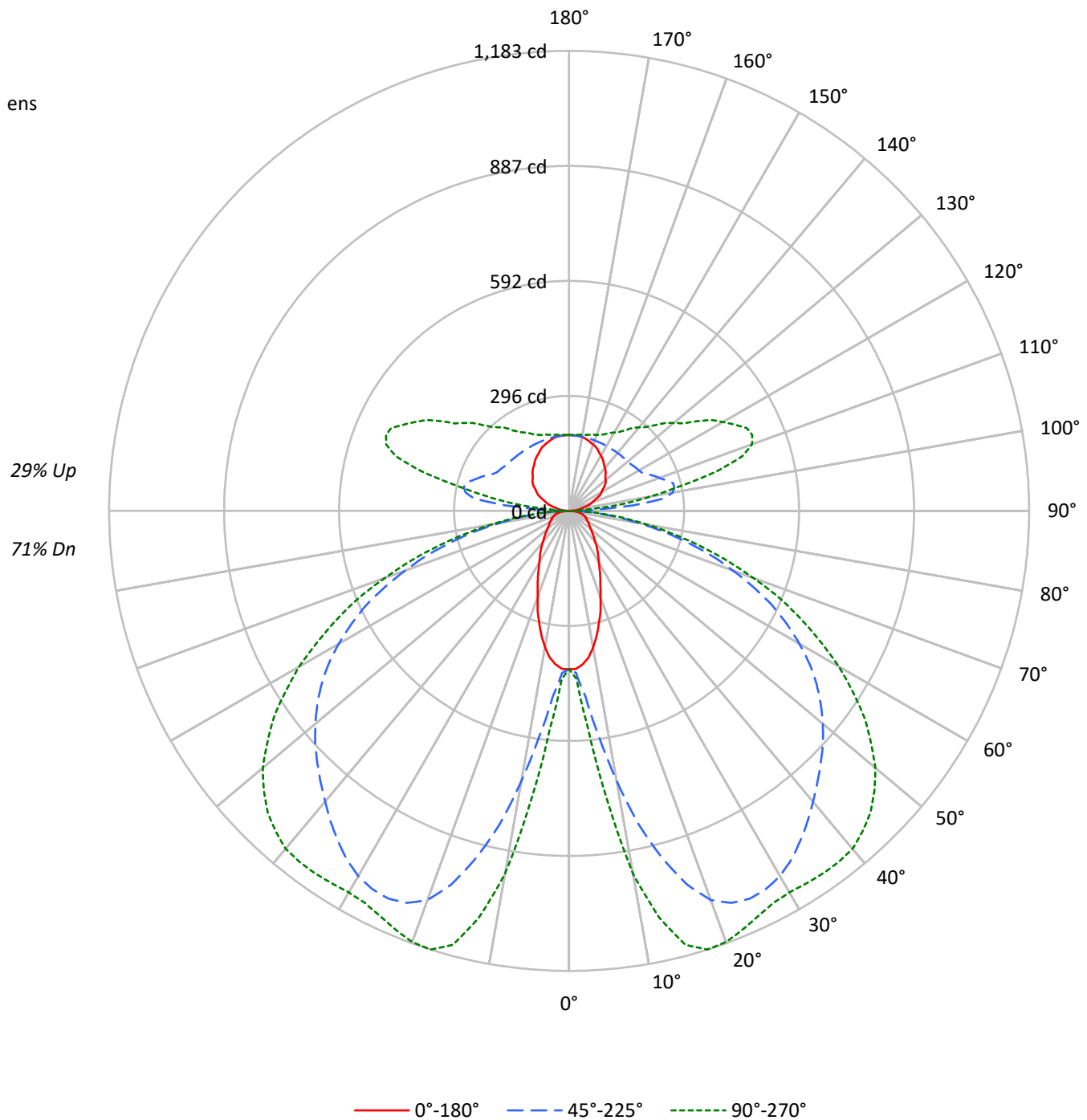
Test Method: LM-79-2019  
Report Number: P936338  
REPORT IS A COMBINATION OF REPORTS P933446 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4413.3 lumens  
Efficiency: N/A  
Efficacy: 98.1 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): 45  
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

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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	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°	2517	2517	2517
5°	2457	2908	3383
10°	2228	4238	5608
15°	1893	5535	6772
20°	1540	6413	6901
25°	1285	6710	6762
30°	1082	6751	6749
35°	957	6637	6923
40°	833	6488	7104
45°	754	6379	7131
50°	692	6281	7013
55°	662	6139	6702
60°	676	5867	6211
65°	702	5455	5536
70°	747	4754	4677
75°	824	3872	3650
80°	895	2682	2460
85°	781	1421	1258

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7131 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.6	1.2
10°-20°	233.2	5.3
20°-30°	408.0	9.2
30°-40°	525.2	11.9
40°-50°	586.6	13.3
50°-60°	561.8	12.7
60°-70°	445.2	10.1
70°-80°	261.8	5.9
80°-90°	73.5	1.7
90°-100°	95.1	2.2
100°-110°	250.2	5.7
110°-120°	259.4	5.9
120°-130°	208.1	4.7
130°-140°	163.3	3.7
140°-150°	125.3	2.8
150°-160°	90.2	2.0
160°-170°	55.2	1.3
170°-180°	18.7	0.4
0°-30°	693.8	15.7
0°-40°	1219.0	27.6
0°-60°	2367.4	53.6
0°-90°	3147.9	71.3
90°-120°	604.7	13.7
90°-150°	1101.3	25.0
90°-180°	1265.0	28.7
0°-180°	4413.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	396	425	479	542	561	37
15°	297	548	924	1120	1155	83
25°	190	621	1100	1149	1150	87
35°	128	594	1036	1095	1138	80
45°	88	474	916	1049	1096	68
55°	63	301	777	903	927	57
65°	50	160	577	649	658	49
75°	37	98	316	348	349	38
85°	13	30	78	86	88	14
90°	1	4	10	5	5	2
95°	13	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	202	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	197	197	19
180°	195	195	195	195	195	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8
2.5°	406.8	406.8	409.4	410.7	413.3	414.7	417.3	419.9	427.7	429.0	431.7
5°	396.3	401.6	418.6	425.1	443.4	468.3	478.7	495.8	531.1	541.5	548.1
7.5°	380.6	392.4	434.3	444.7	490.5	555.9	583.4	620.0	676.3	703.7	726.0
10°	355.8	380.6	455.2	480.1	554.6	654.0	705.0	756.1	841.1	879.0	893.4
12.5°	328.3	368.9	477.4	511.4	618.7	763.9	825.4	881.6	978.4	1029.5	1037.4
15°	296.9	351.9	498.4	548.1	686.7	855.5	923.5	992.9	1083.2	1119.8	1128.9
17.5°	269.5	338.8	518.0	570.3	739.0	937.9	1007.3	1064.8	1138.1	1162.9	1169.5
20°	235.4	317.9	531.1	599.1	794.0	998.1	1064.8	1109.3	1159.0	1174.7	1177.3
22.5°	210.6	295.6	538.9	609.6	830.6	1034.8	1091.0	1126.3	1160.3	1165.6	1166.9
25°	189.7	270.8	537.6	621.3	862.0	1057.0	1100.2	1126.3	1145.9	1148.6	1148.6
27.5°	170.0	243.3	532.4	623.9	885.6	1062.2	1096.2	1114.5	1123.7	1128.9	1128.9
30°	153.0	217.1	519.3	618.7	896.0	1057.0	1084.5	1093.6	1102.8	1110.6	1114.5
32.5°	140.0	192.3	499.7	608.2	897.3	1043.9	1063.5	1068.8	1081.8	1100.2	1106.7
35°	128.2	167.4	477.4	593.9	889.5	1023.0	1036.1	1041.3	1067.5	1094.9	1104.1
37.5°	116.4	149.1	448.7	569.0	877.7	998.1	1007.3	1016.4	1057.0	1089.7	1100.2
40°	104.6	133.4	414.7	541.5	859.4	968.0	975.8	990.2	1043.9	1081.8	1092.3
42.5°	95.5	120.3	378.0	512.8	835.8	933.9	945.7	966.6	1028.2	1068.8	1080.5
45°	87.6	107.3	338.8	473.5	805.8	898.6	915.6	944.4	1009.9	1049.1	1059.6
47.5°	79.8	98.1	298.2	433.0	773.1	863.3	885.6	918.3	985.0	1023.0	1032.1
50°	73.3	88.9	257.7	389.8	737.7	825.4	851.5	885.6	953.6	988.9	1000.7
52.5°	68.0	81.1	219.8	346.6	697.2	786.1	816.2	851.5	915.6	949.6	957.5
55°	62.8	74.6	187.1	300.9	655.3	744.3	777.0	811.0	873.8	902.6	907.8
57.5°	60.2	69.3	159.6	257.7	610.9	697.2	733.8	765.2	824.1	846.3	851.5
60°	56.2	65.4	138.7	221.1	562.5	652.7	684.1	715.5	765.2	783.5	787.4
62.5°	52.3	62.8	123.0	185.7	512.8	600.4	631.8	660.6	702.4	715.5	720.7
65°	49.7	60.2	111.2	159.6	461.7	545.5	576.9	601.7	635.7	648.8	651.4
67.5°	47.1	57.6	102.0	137.3	410.7	490.5	514.1	537.6	563.8	576.9	578.2
70°	43.2	54.9	94.2	121.6	358.4	427.7	447.4	472.2	493.1	499.7	503.6
72.5°	40.5	51.0	88.9	109.9	304.8	367.6	385.9	400.3	418.6	425.1	425.1
75°	36.6	45.8	83.7	98.1	249.8	300.9	316.5	330.9	345.3	347.9	344.0
77.5°	32.7	40.5	71.9	82.4	194.9	238.1	251.1	259.0	270.8	273.4	274.7
80°	27.5	35.3	56.2	64.1	141.3	175.3	184.4	191.0	201.4	201.4	204.1
82.5°	20.9	27.5	40.5	45.8	95.5	120.3	128.2	132.1	138.7	138.7	138.7
85°	13.1	17.0	26.2	30.1	57.6	73.3	78.5	79.8	85.0	86.3	86.3
87.5°	6.5	9.2	17.0	18.3	30.1	37.9	37.9	40.5	40.5	39.2	37.9
90°	1.3	2.4	3.4	3.7	5.8	8.5	9.9	8.8	6.6	5.0	5.0
92.5°	5.2	14.1	23.0	25.3	35.6	49.3	56.1	49.1	35.2	24.9	23.9
95°	12.6	28.9	45.2	49.3	87.5	138.4	163.9	146.2	110.9	84.5	81.5
97.5°	21.7	36.1	50.5	54.1	117.8	202.7	245.2	234.1	211.8	195.1	189.4
100°	28.9	41.9	54.9	58.2	128.9	223.2	270.2	271.0	272.7	273.9	267.1
102.5°	34.9	47.1	59.2	62.3	133.9	229.5	277.3	291.5	319.9	341.3	335.5
105°	45.1	55.4	65.7	68.3	137.7	230.2	276.5	308.4	372.1	419.9	416.7
107.5°	55.5	65.1	74.7	77.2	138.4	220.0	260.8	305.3	394.2	460.8	461.6
110°	62.6	71.3	80.0	82.1	137.3	210.9	247.7	297.5	396.8	471.2	474.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	69.6	77.9	86.1	88.2	137.3	203.0	235.8	286.6	388.3	464.5	469.5
115°	80.1	87.7	95.3	97.2	138.7	193.9	221.5	270.5	368.4	441.9	448.8
117.5°	90.4	97.3	104.2	106.0	141.2	188.2	211.7	255.9	344.3	410.6	418.2
120°	96.4	103.0	109.4	111.1	143.4	186.4	207.8	248.2	328.9	389.5	397.0
122.5°	102.3	108.9	115.5	117.1	146.3	185.3	204.8	241.1	313.8	368.4	375.8
125°	111.4	117.4	123.4	124.9	150.4	184.5	201.5	232.4	294.2	340.5	347.3
127.5°	118.7	124.7	130.8	132.3	154.4	184.0	198.7	225.2	278.4	318.1	323.9
130°	122.6	129.1	135.6	137.3	157.4	184.3	197.7	221.3	268.5	303.9	309.2
132.5°	126.7	133.2	139.7	141.4	159.8	184.5	196.8	217.9	260.2	291.9	296.6
135°	132.7	138.7	144.6	146.1	162.5	184.3	195.2	213.0	248.4	274.9	279.0
137.5°	138.9	144.8	150.6	152.1	166.4	185.5	195.0	210.0	239.9	262.3	265.6
140°	144.0	149.4	154.8	156.2	168.8	185.7	194.0	206.9	232.8	252.2	255.3
142.5°	147.9	152.9	157.9	159.1	170.7	186.3	194.0	205.4	228.1	245.1	247.8
145°	153.9	158.3	162.6	163.8	173.4	186.3	192.7	202.0	220.5	234.5	236.5
147.5°	159.9	164.2	168.5	169.5	177.3	187.6	192.7	200.0	214.6	225.6	227.3
150°	163.9	167.7	171.6	172.6	179.3	188.3	192.7	198.9	211.2	220.5	221.8
152.5°	168.0	170.8	173.8	174.5	180.6	188.7	192.7	198.0	208.5	216.4	217.5
155°	174.0	176.2	178.3	178.9	183.5	189.7	192.7	196.9	205.3	211.6	212.3
157.5°	178.4	180.5	182.6	183.1	186.4	190.6	192.7	195.9	202.5	207.4	207.9
160°	181.5	183.1	184.7	185.1	187.7	191.1	192.7	195.5	201.1	205.3	205.5
162.5°	184.4	185.7	186.9	187.2	189.1	191.5	192.7	195.1	199.8	203.4	203.6
165°	187.7	188.8	189.9	190.2	191.1	192.2	192.7	194.4	197.8	200.3	200.6
167.5°	190.7	191.2	191.8	191.9	192.6	193.6	194.0	195.2	197.3	199.0	199.1
170°	192.7	193.2	193.8	193.9	193.9	194.0	194.0	195.2	197.3	199.0	199.0
172.5°	193.8	193.9	194.0	194.0	194.0	194.0	194.0	194.9	196.6	198.0	197.9
175°	195.2	195.2	195.2	195.2	194.8	194.3	194.0	194.6	195.7	196.6	196.6
177.5°	195.2	195.2	195.2	195.2	194.9	194.5	194.3	194.7	195.6	196.3	196.2
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	406.8	406.8
2.5°	434.3	431.7
5°	558.5	561.2
7.5°	752.1	750.8
10°	935.3	947.0
12.5°	1068.8	1071.4
15°	1149.9	1155.1
17.5°	1181.3	1182.6
20°	1182.6	1179.9
22.5°	1168.2	1165.6
25°	1151.2	1149.9
27.5°	1135.5	1136.8
30°	1128.9	1132.9
32.5°	1128.9	1135.5
35°	1131.6	1138.1
37.5°	1130.2	1138.1
40°	1125.0	1134.2
42.5°	1110.6	1117.2
45°	1088.4	1096.2
47.5°	1059.6	1064.8
50°	1023.0	1028.2
52.5°	977.1	978.4
55°	922.2	927.4
57.5°	863.3	864.6
60°	797.9	801.8
62.5°	728.6	728.6
65°	655.3	657.9
67.5°	579.5	586.0
70°	502.3	503.6
72.5°	426.4	426.4
75°	347.9	349.2
77.5°	273.4	273.4
80°	202.7	204.1
82.5°	140.0	142.6
85°	87.6	87.6
87.5°	40.5	36.6
90°	5.0	5.0
92.5°	19.9	16.0
95°	69.5	57.6
97.5°	166.6	143.7
100°	240.0	212.8
102.5°	312.2	288.9
105°	404.3	391.7
107.5°	464.5	467.6
110°	487.6	500.6





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	489.6	509.6
115°	476.6	504.4
117.5°	449.1	479.9
120°	426.9	456.9
122.5°	405.3	434.8
125°	374.5	401.7
127.5°	346.8	369.7
130°	330.4	351.6
132.5°	315.6	334.6
135°	295.3	311.7
137.5°	279.1	292.4
140°	267.8	280.4
142.5°	258.6	269.4
145°	244.7	252.9
147.5°	234.1	240.8
150°	227.3	232.8
152.5°	221.6	225.8
155°	215.0	217.7
157.5°	209.8	211.7
160°	206.7	207.8
162.5°	204.7	205.7
165°	201.7	202.8
167.5°	199.6	200.0
170°	199.0	199.0
172.5°	197.4	197.1
175°	196.6	196.6
177.5°	195.7	195.2
180°	195.2	195.2



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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	5.95	7.10	6.69	7.87	8.80	19.11	20.27	19.85	21.04	21.96
	3H	6.67	7.72	7.43	8.49	9.45	20.97	22.01	21.72	22.79	23.74
	4H	6.99	7.97	7.76	8.76	9.73	21.62	22.61	22.39	23.40	24.36
	6H	7.25	8.16	8.04	8.96	9.94	22.06	22.98	22.85	23.77	24.75
	8H	7.33	8.20	8.12	9.01	10.00	22.19	23.06	22.99	23.88	24.86
	12H	7.36	8.19	8.16	9.00	10.01	22.27	23.10	23.07	23.91	24.92
4H	2H	13.19	14.17	13.96	14.96	15.93	19.42	20.41	20.20	21.19	22.16
	3H	14.78	15.61	15.57	16.43	17.42	21.49	22.32	22.28	23.14	24.12
	4H	14.89	15.65	15.70	16.47	17.48	22.26	23.02	23.07	23.84	24.85
	6H	14.92	15.57	15.74	16.42	17.44	22.82	23.47	23.64	24.32	25.34
	8H	14.90	15.52	15.73	16.36	17.39	22.98	23.60	23.81	24.44	25.47
	12H	14.88	15.43	15.72	16.29	17.33	23.09	23.64	23.94	24.51	25.54
8H	4H	16.36	16.97	17.18	17.81	18.84	22.35	22.96	23.18	23.81	24.84
	6H	16.61	17.12	17.47	18.01	19.04	22.99	23.50	23.84	24.38	25.41
	8H	16.64	17.09	17.50	17.97	19.02	23.21	23.66	24.08	24.54	25.59
	12H	16.62	17.02	17.49	17.89	18.99	23.37	23.77	24.24	24.64	25.74
12H	4H	16.51	17.07	17.36	17.93	18.97	22.32	22.87	23.16	23.73	24.77
	6H	16.87	17.33	17.74	18.21	19.26	22.98	23.43	23.84	24.31	25.36
	8H	16.96	17.36	17.83	18.23	19.33	23.22	23.62	24.09	24.49	25.59