

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: P936362

Luminaire Tested: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936362
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-93050-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

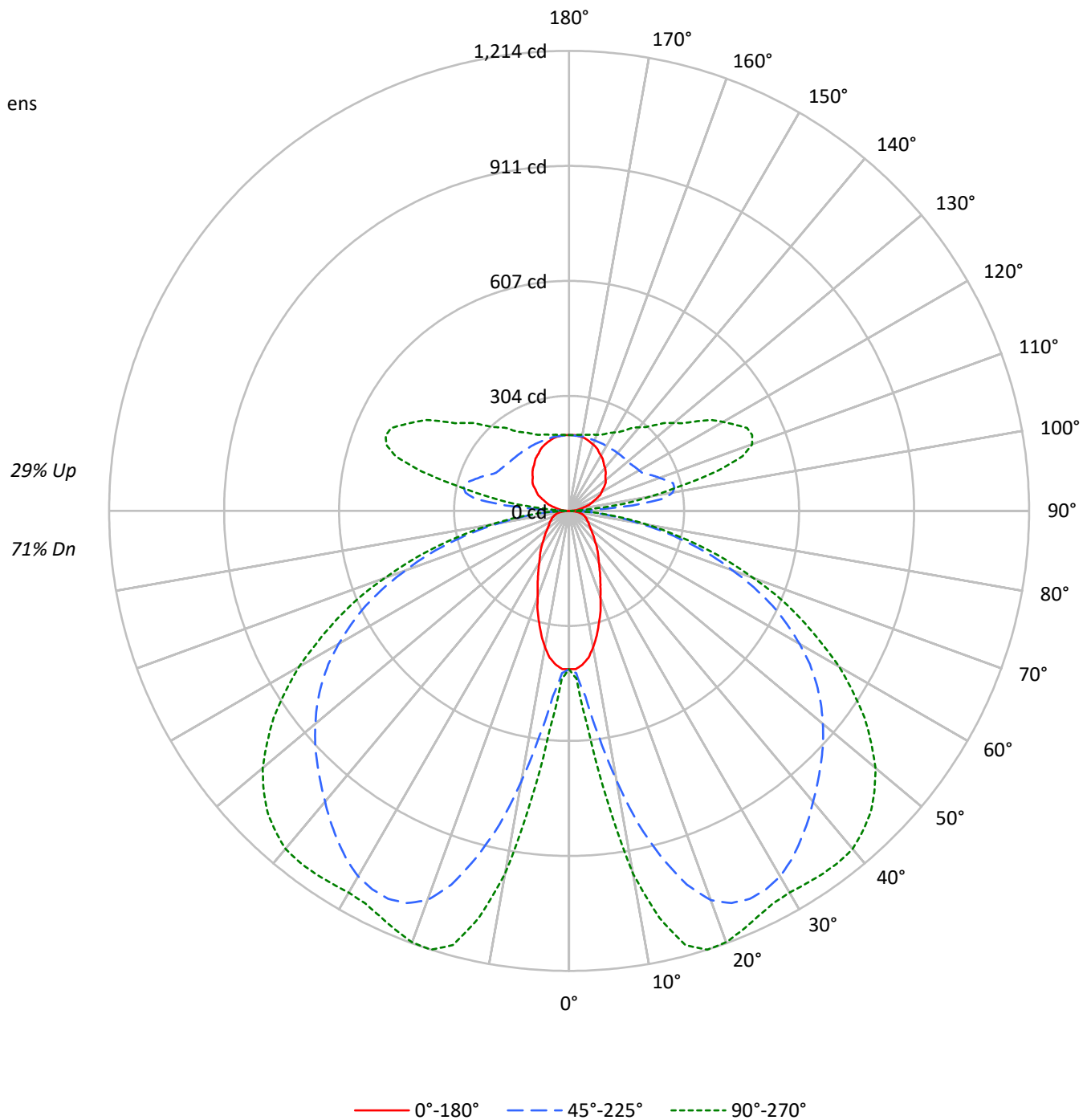
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4531.1 lumens
Efficiency: N/A
Efficacy: 100.7 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_{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	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°	2584	2584	2584
5°	2523	2985	3473
10°	2288	4351	5758
15°	1944	5683	6953
20°	1582	6585	7086
25°	1319	6889	6942
30°	1111	6930	6929
35°	982	6813	7108
40°	855	6662	7293
45°	774	6550	7322
50°	710	6450	7201
55°	679	6303	6881
60°	694	6023	6376
65°	721	5599	5684
70°	766	4880	4802
75°	846	3975	3748
80°	918	2754	2525
85°	799	1459	1293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7322 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	1.2
10°-20°	239.5	5.3
20°-30°	418.9	9.2
30°-40°	539.2	11.9
40°-50°	602.2	13.3
50°-60°	576.8	12.7
60°-70°	457.1	10.1
70°-80°	268.8	5.9
80°-90°	75.4	1.7
90°-100°	97.7	2.2
100°-110°	256.8	5.7
110°-120°	266.3	5.9
120°-130°	213.6	4.7
130°-140°	167.6	3.7
140°-150°	128.6	2.8
150°-160°	92.7	2.0
160°-170°	56.7	1.3
170°-180°	19.2	0.4
0°-30°	712.3	15.7
0°-40°	1251.5	27.6
0°-60°	2430.6	53.6
0°-90°	3231.9	71.3
90°-120°	620.8	13.7
90°-150°	1130.7	25.0
90°-180°	1299.0	28.7
0°-180°	4531.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	407	436	492	556	576	38
15°	305	563	948	1150	1186	85
25°	195	638	1130	1179	1181	90
35°	132	610	1064	1124	1168	82
45°	90	486	940	1077	1126	70
55°	64	309	798	927	952	59
65°	51	164	592	666	676	51
75°	38	101	325	357	359	39
85°	13	31	81	89	90	14
90°	1	4	10	5	5	2
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°	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7
2.5°	417.7	417.7	420.3	421.7	424.4	425.7	428.4	431.1	439.2	440.5	443.2
5°	406.9	412.3	429.7	436.5	455.3	480.8	491.5	509.0	545.2	556.0	562.7
7.5°	390.8	402.9	445.9	456.6	503.6	570.8	599.0	636.6	694.3	722.5	745.3
10°	365.3	390.8	467.4	492.9	569.4	671.5	723.9	776.2	863.5	902.5	917.2
12.5°	337.1	378.7	490.2	525.1	635.2	784.3	847.4	905.2	1004.5	1057.0	1065.1
15°	304.9	361.3	511.7	562.7	705.1	878.3	948.1	1019.4	1112.1	1149.7	1159.1
17.5°	276.7	347.8	531.8	585.5	758.8	962.9	1034.2	1093.3	1168.5	1194.0	1200.7
20°	241.7	326.3	545.2	615.1	815.2	1024.8	1093.3	1138.9	1190.0	1206.1	1208.8
22.5°	216.2	303.5	553.3	625.8	852.8	1062.4	1120.1	1156.4	1191.3	1196.7	1198.0
25°	194.7	278.0	552.0	637.9	885.0	1085.2	1129.5	1156.4	1176.5	1179.2	1179.2
27.5°	174.6	249.8	546.6	640.6	909.2	1090.6	1125.5	1144.3	1153.7	1159.1	1159.1
30°	157.1	222.9	533.2	635.2	919.9	1085.2	1113.4	1122.8	1132.2	1140.3	1144.3
32.5°	143.7	197.4	513.0	624.5	921.3	1071.8	1091.9	1097.3	1110.7	1129.5	1136.2
35°	131.6	171.9	490.2	609.7	913.2	1050.3	1063.7	1069.1	1096.0	1124.2	1133.6
37.5°	119.5	153.1	460.6	584.2	901.1	1024.8	1034.2	1043.6	1085.2	1118.8	1129.5
40°	107.4	137.0	425.7	556.0	882.3	993.8	1001.9	1016.6	1071.8	1110.7	1121.5
42.5°	98.0	123.6	388.1	526.4	858.2	958.9	971.0	992.5	1055.7	1097.3	1109.4
45°	90.0	110.1	347.8	486.2	827.3	922.6	940.1	969.6	1036.9	1077.1	1087.9
47.5°	81.9	100.7	306.2	444.5	793.7	886.4	909.2	942.8	1011.3	1050.3	1059.7
50°	75.2	91.3	264.6	400.2	757.4	847.4	874.3	909.2	979.0	1015.3	1027.5
52.5°	69.8	83.3	225.6	355.9	715.8	807.1	838.0	874.3	940.1	975.0	983.1
55°	64.5	76.5	192.0	308.9	672.8	764.1	797.7	832.6	897.1	926.6	932.0
57.5°	61.8	71.2	163.8	264.6	627.2	715.8	753.4	785.6	846.1	868.9	874.3
60°	57.7	67.1	142.4	227.0	577.5	670.1	702.4	734.6	785.6	804.4	808.5
62.5°	53.7	64.5	126.2	190.7	526.4	616.4	648.7	678.2	721.2	734.6	740.0
65°	51.0	61.8	114.2	163.8	474.1	560.0	592.2	617.8	652.7	666.1	668.8
67.5°	48.3	59.1	104.8	141.0	421.7	503.6	527.8	552.0	578.8	592.2	593.6
70°	44.3	56.4	96.7	124.9	368.0	439.2	459.3	484.8	506.3	513.0	517.0
72.5°	41.6	52.4	91.3	112.8	312.9	377.4	396.2	410.9	429.7	436.5	436.5
75°	37.6	47.0	85.9	100.7	256.5	308.9	325.0	339.8	354.5	357.2	353.2
77.5°	33.6	41.6	73.9	84.6	200.1	244.4	257.8	265.9	278.0	280.7	282.0
80°	28.2	36.3	57.7	65.8	145.0	180.0	189.4	196.1	206.8	206.8	209.5
82.5°	21.5	28.2	41.6	47.0	98.0	123.6	131.6	135.6	142.4	142.4	142.4
85°	13.4	17.5	26.9	30.9	59.1	75.2	80.6	81.9	87.3	88.6	88.6
87.5°	6.7	9.4	17.5	18.8	30.9	38.9	38.9	41.6	41.6	40.3	38.9
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°	417.7	417.7
2.5°	445.9	443.2
5°	573.4	576.1
7.5°	772.2	770.9
10°	960.2	972.3
12.5°	1097.3	1100.0
15°	1180.6	1185.9
17.5°	1212.8	1214.1
20°	1214.1	1211.4
22.5°	1199.4	1196.7
25°	1181.9	1180.6
27.5°	1165.8	1167.1
30°	1159.1	1163.1
32.5°	1159.1	1165.8
35°	1161.8	1168.5
37.5°	1160.4	1168.5
40°	1155.0	1164.4
42.5°	1140.3	1147.0
45°	1117.4	1125.5
47.5°	1087.9	1093.3
50°	1050.3	1055.7
52.5°	1003.2	1004.5
55°	946.8	952.2
57.5°	886.4	887.7
60°	819.2	823.2
62.5°	748.0	748.0
65°	672.8	675.5
67.5°	594.9	601.6
70°	515.7	517.0
72.5°	437.8	437.8
75°	357.2	358.6
77.5°	280.7	280.7
80°	208.2	209.5
82.5°	143.7	146.4
85°	90.0	90.0
87.5°	41.6	37.6
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	6.04	7.19	6.78	7.96	8.89	19.20	20.36	19.95	21.13	22.05
	3H	6.76	7.81	7.52	8.58	9.54	21.06	22.10	21.81	22.88	23.84
	4H	7.08	8.06	7.85	8.85	9.82	21.71	22.70	22.49	23.49	24.46
	6H	7.34	8.25	8.13	9.05	10.03	22.16	23.07	22.94	23.86	24.85
	8H	7.42	8.29	8.21	9.11	10.09	22.28	23.15	23.08	23.97	24.95
	12H	7.45	8.28	8.25	9.09	10.10	22.36	23.19	23.16	24.00	25.01
4H	2H	13.28	14.26	14.06	15.05	16.02	19.51	20.50	20.29	21.29	22.25
	3H	14.87	15.70	15.66	16.52	17.51	21.58	22.41	22.37	23.23	24.21
	4H	14.98	15.74	15.79	16.56	17.57	22.36	23.11	23.16	23.93	24.94
	6H	15.01	15.67	15.83	16.51	17.53	22.91	23.56	23.73	24.41	25.43
	8H	15.00	15.61	15.82	16.45	17.48	23.08	23.69	23.90	24.53	25.56
	12H	14.97	15.52	15.81	16.38	17.42	23.18	23.73	24.03	24.60	25.64
8H	4H	16.45	17.06	17.27	17.90	18.94	22.44	23.05	23.27	23.90	24.93
	6H	16.70	17.21	17.56	18.10	19.13	23.08	23.59	23.93	24.47	25.51
	8H	16.73	17.18	17.59	18.06	19.11	23.30	23.76	24.17	24.63	25.68
	12H	16.71	17.11	17.58	17.98	19.08	23.46	23.86	24.33	24.73	25.83
12H	4H	16.61	17.16	17.45	18.02	19.06	22.41	22.96	23.26	23.83	24.86
	6H	16.97	17.42	17.83	18.30	19.35	23.07	23.52	23.93	24.40	25.45
	8H	17.05	17.45	17.92	18.32	19.42	23.31	23.71	24.18	24.58	25.68