

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: P937038

Luminaire Tested: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937038
REPORT IS A COMBINATION OF REPORTS P933509 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

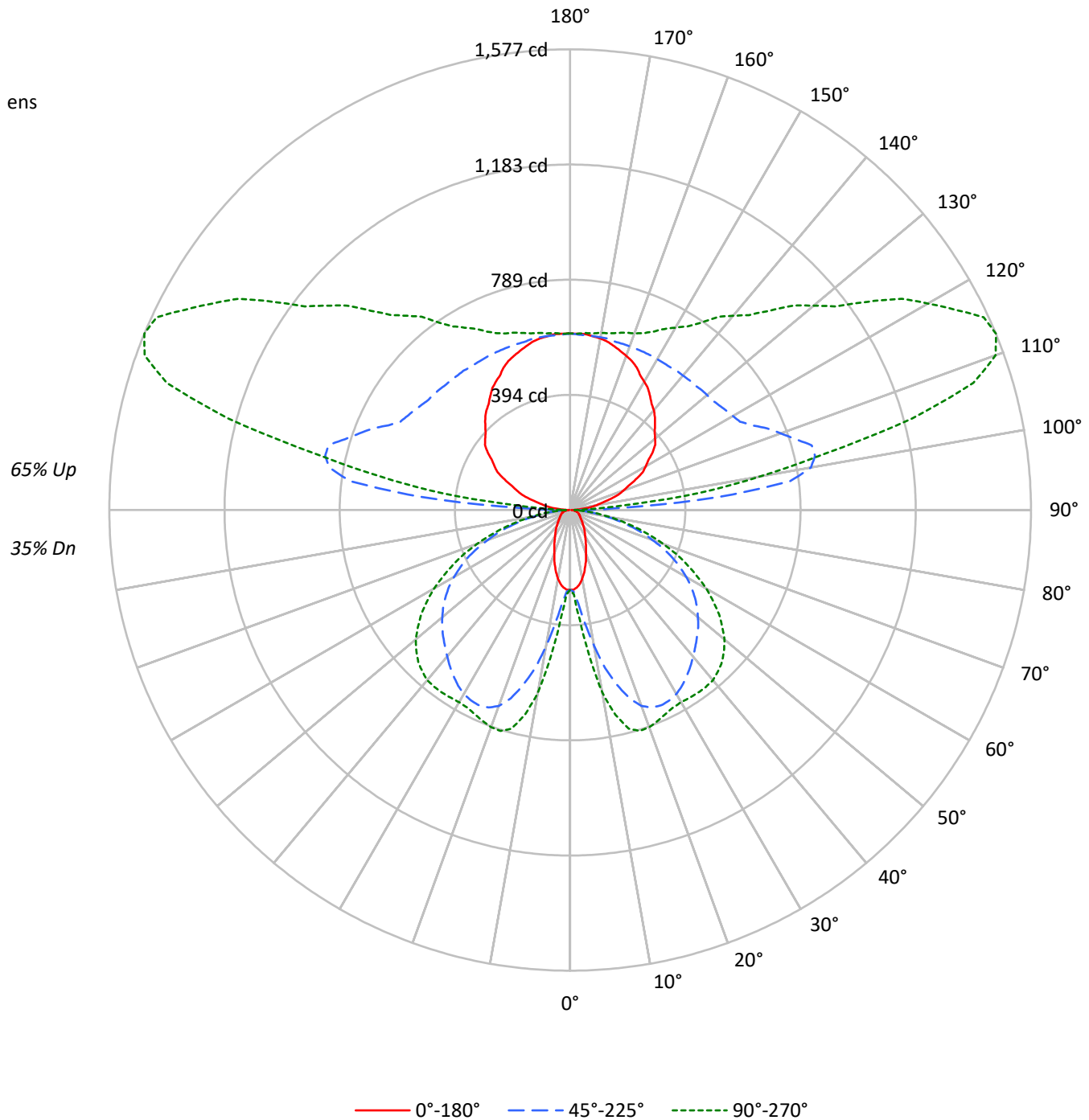
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6029.2 lumens
Efficiency: N/A
Efficacy: 116.8 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-Indirect

Input Watts (W): 51.6
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	0
RCR																					
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	42	42	42	35
1	94	90	86	82	85	81	78	75	65	63	61	50	49	47	37	36	35	35	35	35	29
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29	29	29	29	23
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24	24	24	24	19
4	71	60	52	46	63	54	47	42	44	39	35	34	30	27	25	22	20	20	20	20	16
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17	17	17	17	14
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	15	15	15	12
7	55	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13	13	13	13	10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12	12	12	12	9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10	10	10	10	8
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	14	11	9	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1688	1688	1688
5°	1648	1950	2268
10°	1494	2842	3760
15°	1269	3711	4541
20°	1033	4300	4628
25°	862	4499	4534
30°	726	4526	4525
35°	642	4450	4642
40°	559	4351	4763
45°	506	4278	4781
50°	463	4212	4702
55°	444	4116	4494
60°	455	3934	4165
65°	471	3657	3713
70°	502	3188	3136
75°	554	2597	2448
80°	599	1799	1649
85°	525	954	845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4781 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.6
10°-20°	156.4	2.6
20°-30°	273.6	4.5
30°-40°	352.2	5.8
40°-50°	393.3	6.5
50°-60°	376.7	6.2
60°-70°	298.6	5.0
70°-80°	175.6	2.9
80°-90°	51.1	0.8
90°-100°	294.5	4.9
100°-110°	774.3	12.8
110°-120°	802.8	13.3
120°-130°	644.0	10.7
130°-140°	505.3	8.4
140°-150°	387.8	6.4
150°-160°	279.3	4.6
160°-170°	170.9	2.8
170°-180°	57.7	1.0
0°-30°	465.2	7.7
0°-40°	817.4	13.6
0°-60°	1587.4	26.3
0°-90°	2112.6	35.0
90°-120°	1871.6	31.0
90°-150°	3408.7	56.5
90°-180°	3917.0	65.0
0°-180°	6029.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	273	273	273	273	273	
5°	266	285	321	363	376	25
15°	199	368	619	751	774	55
25°	127	417	738	770	771	59
35°	86	398	695	734	763	54
45°	59	318	614	704	735	45
55°	42	202	521	605	622	38
65°	33	107	387	435	441	33
75°	25	66	212	233	234	26
85°	9	20	53	58	59	9
90°	4	11	31	15	15	4
95°	39	152	507	262	178	43
105°	140	211	856	1300	1212	148
115°	248	301	686	1368	1561	245
125°	345	386	624	1054	1243	306
135°	411	452	604	851	965	318
145°	476	507	596	726	783	298
155°	538	554	596	655	674	247
165°	581	589	596	620	628	164
175°	604	604	600	608	608	57
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8
2.5°	272.8	272.8	274.5	275.4	277.2	278.1	279.8	281.6	286.8	287.7	289.4
5°	265.8	269.3	280.7	285.1	297.4	314.0	321.0	332.4	356.1	363.1	367.6
7.5°	255.2	263.2	291.2	298.2	328.9	372.8	391.2	415.8	453.5	471.9	486.9
10°	238.6	255.2	305.2	322.0	371.9	438.5	472.8	507.0	564.0	589.4	599.1
12.5°	220.2	247.4	320.1	343.0	414.9	512.2	553.5	591.2	656.1	690.3	695.5
15°	199.1	236.0	334.2	367.6	460.5	573.6	619.2	665.8	726.3	750.8	757.0
17.5°	180.7	227.2	347.3	382.5	495.6	628.9	675.4	714.0	763.1	779.8	784.1
20°	157.9	213.1	356.1	401.7	532.5	669.3	714.0	743.8	777.2	787.7	789.5
22.5°	141.2	198.2	361.4	408.7	557.0	693.8	731.5	755.2	778.0	781.5	782.4
25°	127.2	181.6	360.5	416.7	578.1	708.7	737.7	755.2	768.3	770.1	770.1
27.5°	114.1	163.2	357.0	418.4	593.9	712.3	735.0	747.3	753.4	757.0	757.0
30°	102.6	145.6	348.2	414.9	600.8	708.7	727.2	733.3	739.4	744.7	747.3
32.5°	93.8	129.0	335.0	407.9	601.7	700.0	713.1	716.6	725.4	737.7	742.1
35°	86.0	112.3	320.1	398.3	596.5	685.9	694.7	698.2	715.8	734.2	740.3
37.5°	78.0	100.0	300.9	381.6	588.5	669.3	675.4	681.6	708.7	730.7	737.7
40°	70.2	89.5	278.1	363.1	576.3	649.1	654.4	664.0	700.0	725.4	732.4
42.5°	64.0	80.7	253.5	343.8	560.5	626.3	634.1	648.2	689.4	716.6	724.5
45°	58.8	71.9	227.2	317.5	540.3	602.6	614.0	633.3	677.1	703.5	710.4
47.5°	53.5	65.8	200.0	290.3	518.4	578.9	593.9	615.7	660.5	685.9	692.0
50°	49.1	59.6	172.8	261.3	494.7	553.5	571.0	593.9	639.5	663.1	671.0
52.5°	45.6	54.4	147.4	232.5	467.5	527.1	547.4	571.0	614.0	636.8	642.1
55°	42.1	50.0	125.4	201.7	439.4	499.1	521.0	543.8	585.9	605.2	608.8
57.5°	40.4	46.5	107.0	172.8	409.6	467.5	492.1	513.1	552.6	567.5	571.0
60°	37.8	43.9	93.0	148.2	377.2	437.7	458.8	479.8	513.1	525.4	528.0
62.5°	35.1	42.1	82.5	124.5	343.8	402.6	423.6	443.0	471.0	479.8	483.3
65°	33.3	40.4	74.6	107.0	309.7	365.7	386.8	403.5	426.3	435.1	436.8
67.5°	31.6	38.6	68.5	92.1	275.4	328.9	344.7	360.5	378.0	386.8	387.7
70°	29.0	36.8	63.1	81.5	240.3	286.8	300.0	316.6	330.7	335.0	337.7
72.5°	27.2	34.2	59.6	73.7	204.4	246.4	258.7	268.4	280.7	285.1	285.1
75°	24.6	30.7	56.2	65.8	167.5	201.7	212.3	221.9	231.5	233.4	230.7
77.5°	21.9	27.2	48.2	55.3	130.7	159.7	168.4	173.7	181.6	183.3	184.2
80°	18.4	23.7	37.8	43.0	94.7	117.6	123.7	128.1	135.1	135.1	136.8
82.5°	14.0	18.4	27.2	30.7	64.0	80.7	86.0	88.6	93.0	93.0	93.0
85°	8.8	11.4	17.5	20.1	38.6	49.1	52.7	53.5	57.0	57.9	57.9
87.5°	4.4	6.1	11.4	12.3	20.1	25.5	25.5	27.2	27.2	26.3	25.5
90°	4.0	7.2	10.6	11.3	17.8	26.4	30.8	27.4	20.6	15.4	15.4
92.5°	16.2	43.8	71.3	78.2	110.0	152.3	173.5	152.1	109.2	77.0	73.9
95°	38.9	89.4	139.8	152.4	270.7	428.4	507.3	452.7	343.4	261.5	252.3
97.5°	67.3	111.8	156.3	167.4	364.7	627.6	759.1	724.6	655.6	603.8	586.1
100°	89.2	129.6	170.0	180.1	398.9	690.7	836.5	839.1	844.1	847.9	826.9
102.5°	107.9	145.5	183.2	192.6	414.6	710.4	858.4	902.4	990.4	1056.3	1038.2
105°	139.5	171.4	203.4	211.3	426.2	712.7	856.0	954.5	1151.7	1299.6	1289.9
107.5°	172.0	201.7	231.4	238.9	428.3	681.0	807.3	944.8	1219.9	1426.1	1428.5
110°	193.9	220.7	247.5	254.2	425.0	652.9	766.8	920.5	1228.0	1458.6	1468.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	215.3	240.9	266.5	272.9	425.2	628.3	729.9	887.2	1201.8	1437.8	1453.3
115°	247.7	271.4	294.9	300.9	429.1	600.1	685.7	837.2	1140.4	1367.7	1389.2
117.5°	279.7	301.2	322.7	328.1	437.2	582.5	655.2	792.1	1065.6	1270.8	1294.6
120°	298.4	318.6	338.8	343.8	443.6	576.6	643.1	768.1	1018.0	1205.5	1228.7
122.5°	316.7	337.0	357.4	362.5	452.9	573.5	633.8	746.3	971.4	1140.2	1163.0
125°	344.6	363.2	381.8	386.4	465.5	570.9	623.7	719.3	910.5	1053.9	1074.9
127.5°	367.4	386.1	404.8	409.5	478.0	569.4	615.1	697.2	861.4	984.5	1002.3
130°	379.5	399.7	419.9	424.9	487.3	570.4	611.9	685.0	831.1	940.8	957.1
132.5°	392.1	412.3	432.4	437.5	494.7	570.9	609.0	674.4	805.3	903.4	918.1
135°	410.7	429.1	447.5	452.1	502.8	570.4	604.1	658.9	768.5	850.7	863.3
137.5°	429.8	448.0	466.2	470.7	514.9	573.9	603.4	649.7	742.3	811.8	822.2
140°	445.6	462.4	479.2	483.4	522.4	574.5	600.5	640.5	720.6	780.6	790.2
142.5°	457.8	473.3	488.9	492.7	528.6	576.5	600.5	635.6	705.9	758.7	767.0
145°	476.5	490.0	503.4	506.8	536.7	576.6	596.5	625.2	682.7	725.8	732.1
147.5°	495.1	508.2	521.4	524.7	548.6	580.5	596.5	619.1	664.3	698.2	703.5
150°	507.3	519.1	531.1	534.0	554.9	582.6	596.5	615.6	653.8	682.5	686.7
152.5°	519.8	528.9	537.9	540.1	558.9	583.9	596.5	612.8	645.4	669.9	673.1
155°	538.5	545.1	551.8	553.5	567.8	586.9	596.5	609.5	635.5	654.9	657.0
157.5°	552.3	558.8	565.3	566.9	576.8	589.9	596.5	606.6	626.7	641.9	643.4
160°	561.6	566.6	571.7	572.9	580.8	591.2	596.5	605.1	622.4	635.4	636.2
162.5°	570.9	574.8	578.5	579.5	585.1	592.7	596.5	603.8	618.4	629.3	630.1
165°	581.0	584.5	587.9	588.8	591.3	594.7	596.5	601.7	612.2	620.0	620.9
167.5°	590.4	592.0	593.6	594.0	596.2	599.1	600.5	603.9	610.8	615.9	616.3
170°	596.5	598.1	599.7	600.1	600.2	600.4	600.5	603.9	610.8	615.9	615.9
172.5°	599.7	600.0	600.4	600.5	600.5	600.5	600.5	603.2	608.6	612.7	612.3
175°	604.1	604.1	604.1	604.1	602.9	601.3	600.5	602.2	605.6	608.2	608.2
177.5°	604.1	604.1	604.1	604.1	603.2	602.0	601.4	602.7	605.5	607.5	607.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	272.8	272.8
2.5°	291.2	289.4
5°	374.5	376.3
7.5°	504.4	503.5
10°	627.2	635.0
12.5°	716.6	718.4
15°	771.1	774.5
17.5°	792.1	792.9
20°	792.9	791.2
22.5°	783.3	781.5
25°	771.9	771.1
27.5°	761.4	762.2
30°	757.0	759.6
32.5°	757.0	761.4
35°	758.8	763.1
37.5°	757.9	763.1
40°	754.3	760.5
42.5°	744.7	749.1
45°	729.8	735.0
47.5°	710.4	714.0
50°	685.9	689.4
52.5°	655.2	656.1
55°	618.4	621.9
57.5°	578.9	579.8
60°	535.1	537.7
62.5°	488.6	488.6
65°	439.4	441.2
67.5°	388.6	392.9
70°	336.9	337.7
72.5°	285.9	285.9
75°	233.4	234.2
77.5°	183.3	183.3
80°	136.0	136.8
82.5°	93.8	95.6
85°	58.8	58.8
87.5°	27.2	24.6
90°	15.4	15.4
92.5°	61.7	49.4
95°	215.1	178.0
97.5°	515.5	444.8
100°	742.6	658.5
102.5°	966.2	894.1
105°	1251.1	1212.4
107.5°	1437.8	1447.1
110°	1509.0	1549.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1515.3	1577.3
115°	1475.1	1561.1
117.5°	1389.9	1485.2
120°	1321.3	1413.9
122.5°	1254.4	1345.8
125°	1159.1	1243.3
127.5°	1073.3	1144.3
130°	1022.7	1088.3
132.5°	976.9	1035.6
135°	914.0	964.6
137.5°	863.6	905.1
140°	829.0	867.8
142.5°	800.4	833.7
145°	757.4	782.6
147.5°	724.3	745.2
150°	703.6	720.6
152.5°	685.9	698.7
155°	665.4	673.9
157.5°	649.3	655.2
160°	639.6	643.1
162.5°	633.4	636.6
165°	624.3	627.7
167.5°	617.7	619.1
170°	615.9	615.9
172.5°	611.1	609.8
175°	608.2	608.2
177.5°	605.6	604.1
180°	604.1	604.1



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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	1.27	2.03	2.34	3.11	4.58	14.43	15.20	15.50	16.27	17.74
	3H	1.97	2.65	3.04	3.74	5.22	16.26	16.95	17.34	18.03	19.52
	4H	2.26	2.91	3.35	4.00	5.49	16.90	17.55	17.99	18.64	20.13
	6H	2.50	3.11	3.60	4.19	5.70	17.32	17.92	18.42	19.01	20.51
	8H	2.57	3.14	3.67	4.25	5.74	17.43	18.01	18.54	19.11	20.61
	12H	2.58	3.13	3.69	4.23	5.75	17.50	18.04	18.60	19.14	20.66
4H	2H	8.46	9.11	9.56	10.20	11.69	14.70	15.35	15.79	16.43	17.92
	3H	10.02	10.57	11.13	11.68	13.18	16.73	17.27	17.83	18.39	19.89
	4H	10.11	10.61	11.22	11.72	13.24	17.49	17.99	18.60	19.09	20.62
	6H	10.12	10.55	11.23	11.67	13.19	18.02	18.45	19.13	19.57	21.09
	8H	10.09	10.49	11.21	11.61	13.15	18.17	18.58	19.29	19.69	21.23
	12H	10.04	10.41	11.18	11.54	13.08	18.26	18.62	19.39	19.75	21.29
8H	4H	11.55	11.95	12.66	13.07	14.60	17.54	17.94	18.66	19.06	20.59
	6H	11.78	12.12	12.92	13.28	14.81	18.16	18.49	19.30	19.65	21.18
	8H	11.80	12.09	12.94	13.23	14.78	18.38	18.67	19.52	19.81	21.36
	12H	11.76	12.02	12.91	13.16	14.74	18.51	18.77	19.66	19.90	21.49
12H	4H	11.68	12.05	12.82	13.18	14.72	17.49	17.85	18.62	18.98	20.52
	6H	12.04	12.33	13.18	13.47	15.02	18.14	18.43	19.29	19.57	21.12
	8H	12.10	12.36	13.25	13.50	15.08	18.36	18.62	19.51	19.76	21.34