

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: P937234

Luminaire Tested: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937234
REPORT IS A COMBINATION OF REPORTS P933503 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

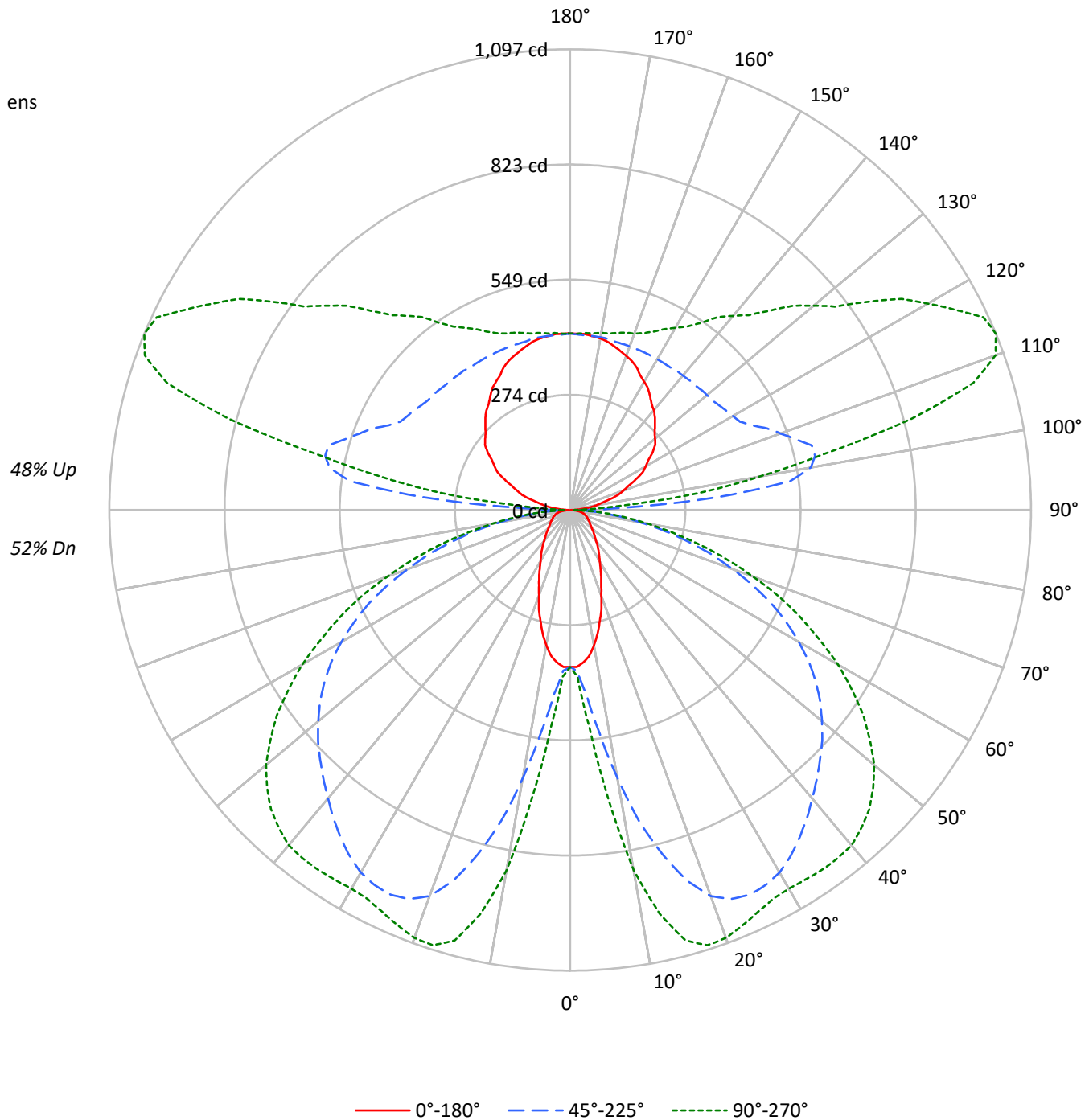
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5617.0 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: General Diffuse

Input Watts (W): 51.2
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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	93	89	85	90	86	82	79	73	70	68	61	59	57	50	49	47	42
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39	34
3	80	70	62	56	74	65	58	53	55	50	46	46	42	39	38	35	32	28
4	73	62	53	47	67	57	50	44	49	43	38	41	36	33	33	30	27	24
5	67	55	46	40	61	51	43	37	43	37	33	36	32	28	30	26	23	20
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	27	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24	29	25	21	24	20	18	15
8	52	39	31	26	48	37	29	24	31	26	21	27	22	19	22	18	16	13
9	49	36	28	23	45	33	26	22	29	23	19	24	20	16	20	17	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3469	3469	3469
5°	3385	4006	4663
10°	3067	5835	7729
15°	2603	7618	9333
20°	2117	8822	9511
25°	1764	9224	9319
30°	1485	9276	9301
35°	1311	9114	9542
40°	1140	8906	9790
45°	1031	8752	9828
50°	943	8612	9666
55°	901	8410	9236
60°	920	8030	8561
65°	952	7456	7630
70°	1008	6490	6446
75°	1105	5278	5031
80°	1179	3648	3390
85°	994	1924	1734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.9
10°-20°	214.3	3.8
20°-30°	374.8	6.7
30°-40°	482.5	8.6
40°-50°	539.0	9.6
50°-60°	516.2	9.2
60°-70°	409.1	7.3
70°-80°	240.6	4.3
80°-90°	68.4	1.2
90°-100°	204.8	3.6
100°-110°	538.4	9.6
110°-120°	558.3	9.9
120°-130°	447.8	8.0
130°-140°	351.4	6.3
140°-150°	269.7	4.8
150°-160°	194.2	3.5
160°-170°	118.8	2.1
170°-180°	40.2	0.7
0°-30°	637.5	11.3
0°-40°	1120.0	19.9
0°-60°	2175.2	38.7
0°-90°	2893.3	51.5
90°-120°	1301.6	23.2
90°-150°	2370.5	42.2
90°-180°	2724.0	48.5
0°-180°	5617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	364	391	440	498	516	34
15°	273	504	849	1029	1061	76
25°	174	571	1011	1055	1056	80
35°	118	546	952	1006	1046	74
45°	80	435	841	964	1007	62
55°	58	276	714	829	852	53
65°	46	147	530	596	604	45
75°	34	90	291	320	321	35
85°	12	28	72	79	80	13
90°	3	8	22	11	11	3
95°	27	106	353	182	124	30
105°	97	147	595	904	843	103
115°	172	209	477	951	1086	170
125°	240	269	434	733	864	213
135°	286	314	420	592	671	221
145°	331	352	415	505	544	208
155°	374	385	415	455	469	172
165°	404	409	415	431	436	114
175°	420	420	418	423	423	40
180°	420	420	420	420	420	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8
2.5°	373.8	373.8	376.2	377.4	379.8	381.0	383.4	385.8	393.1	394.2	396.6
5°	364.2	369.0	384.6	390.6	407.4	430.3	439.9	455.5	488.0	497.6	503.6
7.5°	349.8	360.6	399.1	408.7	450.7	510.9	536.0	569.7	621.4	646.7	667.0
10°	326.9	349.8	418.3	441.1	509.6	601.0	647.8	694.7	772.8	807.7	820.9
12.5°	301.7	338.9	438.7	469.9	568.5	702.0	758.5	810.1	899.1	945.9	953.1
15°	272.8	323.3	457.9	503.6	631.0	786.1	848.6	912.3	995.2	1028.9	1037.3
17.5°	247.6	311.3	475.9	524.0	679.1	861.8	925.5	978.4	1045.7	1068.6	1074.6
20°	216.3	292.1	488.0	550.5	729.6	917.1	978.4	1019.2	1064.9	1079.4	1081.7
22.5°	193.5	271.6	495.2	560.1	763.2	950.8	1002.4	1034.9	1066.1	1070.9	1072.1
25°	174.3	248.8	494.0	570.9	792.1	971.1	1010.8	1034.9	1052.9	1055.3	1055.3
27.5°	156.3	223.6	489.2	573.3	813.7	975.9	1007.2	1024.1	1032.4	1037.3	1037.3
30°	140.6	199.5	477.2	568.5	823.3	971.1	996.4	1004.8	1013.2	1020.4	1024.1
32.5°	128.6	176.7	459.2	558.9	824.5	959.1	977.1	982.0	994.0	1010.8	1016.9
35°	117.8	153.8	438.7	545.7	817.3	939.9	951.9	956.8	980.8	1006.1	1014.4
37.5°	107.0	137.0	412.2	522.9	806.5	917.1	925.5	933.9	971.1	1001.2	1010.8
40°	96.1	122.6	381.0	497.6	789.7	889.4	896.6	909.9	959.1	994.0	1003.6
42.5°	87.8	110.6	347.4	471.2	768.0	858.2	869.0	888.3	944.7	982.0	992.8
45°	80.5	98.5	311.3	435.1	740.4	825.8	841.3	867.8	927.9	963.9	973.6
47.5°	73.3	90.1	274.1	397.9	710.3	793.3	813.7	843.8	905.1	939.9	948.3
50°	67.3	81.8	236.8	358.2	677.9	758.5	782.5	813.7	876.3	908.6	919.5
52.5°	62.5	74.5	201.9	318.6	640.7	722.3	750.0	782.5	841.3	872.6	879.8
55°	57.7	68.5	171.9	276.4	602.2	683.9	714.0	745.2	802.9	829.3	834.1
57.5°	55.3	63.7	146.6	236.8	561.3	640.7	674.3	703.1	757.2	777.6	782.5
60°	51.7	60.1	127.4	203.1	516.9	599.7	628.7	657.5	703.1	720.0	723.5
62.5°	48.1	57.7	113.0	170.6	471.2	551.7	580.5	607.0	645.5	657.5	662.3
65°	45.7	55.3	102.2	146.6	424.3	501.2	530.0	552.9	584.2	596.2	598.5
67.5°	43.3	52.8	93.8	126.2	377.4	450.7	472.4	494.0	518.0	530.0	531.2
70°	39.7	50.5	86.5	111.8	329.3	393.1	411.1	433.9	453.1	459.2	462.7
72.5°	37.3	46.8	81.8	101.0	280.1	337.7	354.6	367.8	384.6	390.6	390.6
75°	33.7	42.0	77.0	90.1	229.6	276.4	290.9	304.1	317.3	319.7	316.1
77.5°	30.0	37.3	66.1	75.7	179.1	218.8	230.8	238.0	248.8	251.2	252.4
80°	25.2	32.5	51.7	58.9	129.8	161.1	169.5	175.5	185.1	185.1	187.5
82.5°	19.2	25.2	37.3	42.0	87.8	110.6	117.8	121.4	127.4	127.4	127.4
85°	12.0	15.6	24.0	27.7	52.8	67.3	72.1	73.3	78.1	79.3	79.3
87.5°	6.0	8.4	15.6	16.8	27.7	34.8	34.8	37.3	37.3	36.0	34.8
90°	2.8	5.1	7.4	7.9	12.5	18.5	21.5	19.1	14.3	10.7	10.7
92.5°	11.3	30.5	49.6	54.4	76.5	106.0	120.7	105.8	76.0	53.6	51.5
95°	27.1	62.2	97.3	106.1	188.3	297.9	352.8	314.7	238.8	181.8	175.4
97.5°	46.8	77.8	108.7	116.4	253.6	436.4	527.9	503.8	455.9	419.9	407.6
100°	62.0	90.1	118.2	125.2	277.3	480.3	581.7	583.4	587.0	589.6	575.0
102.5°	75.0	101.2	127.3	133.9	288.3	494.1	597.0	627.6	688.7	734.5	722.0
105°	97.0	119.2	141.4	146.9	296.4	495.7	595.3	663.9	800.9	903.7	897.0
107.5°	119.5	140.3	160.9	166.1	297.9	473.6	561.4	657.0	848.2	991.7	993.3
110°	134.8	153.5	172.2	176.8	295.6	454.0	533.2	640.1	853.9	1014.2	1021.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.7	167.6	185.3	189.8	295.7	437.0	507.6	617.0	835.8	999.9	1010.7
115°	172.3	188.7	205.1	209.2	298.5	417.3	476.8	582.3	793.0	951.1	966.0
117.5°	194.6	209.5	224.4	228.1	304.0	405.1	455.6	550.8	741.0	883.7	900.3
120°	207.6	221.6	235.6	239.1	308.5	401.0	447.2	534.1	708.0	838.3	854.4
122.5°	220.2	234.4	248.5	252.1	314.9	398.8	440.7	518.9	675.5	792.9	808.8
125°	239.7	252.6	265.5	268.7	323.7	397.1	433.7	500.2	633.2	732.9	747.5
127.5°	255.5	268.5	281.5	284.8	332.5	396.1	427.8	484.9	599.1	684.7	697.1
130°	264.0	278.0	292.0	295.5	338.8	396.6	425.5	476.4	578.0	654.2	665.6
132.5°	272.7	286.7	300.7	304.3	344.0	397.1	423.5	469.0	560.1	628.3	638.5
135°	285.6	298.4	311.2	314.4	349.7	396.7	420.2	458.3	534.5	591.6	600.5
137.5°	298.9	311.6	324.2	327.4	358.1	399.1	419.6	451.8	516.2	564.5	571.7
140°	309.9	321.6	333.2	336.1	363.3	399.5	417.6	445.4	501.0	542.8	549.5
142.5°	318.4	329.1	339.8	342.6	367.6	401.0	417.6	442.1	490.9	527.6	533.4
145°	331.3	340.8	350.1	352.5	373.2	401.0	414.8	434.8	474.7	504.8	509.1
147.5°	344.3	353.4	362.6	364.9	381.5	403.7	414.8	430.5	462.0	485.6	489.2
150°	352.8	361.0	369.3	371.4	385.9	405.2	414.8	428.1	454.6	474.6	477.5
152.5°	361.5	367.8	374.0	375.6	388.7	406.1	414.8	426.2	448.8	465.8	468.0
155°	374.5	379.1	383.7	384.9	394.9	408.2	414.8	423.8	441.8	455.4	456.8
157.5°	384.0	388.6	393.1	394.2	401.1	410.2	414.8	421.8	435.8	446.4	447.4
160°	390.5	394.1	397.5	398.4	403.9	411.2	414.8	420.8	432.9	441.9	442.4
162.5°	397.1	399.7	402.3	403.0	406.9	412.2	414.8	419.9	430.0	437.6	438.2
165°	404.1	406.4	408.8	409.4	411.2	413.6	414.8	418.4	425.7	431.2	431.8
167.5°	410.5	411.6	412.8	413.1	414.6	416.6	417.6	420.0	424.8	428.3	428.6
170°	414.8	415.9	417.1	417.3	417.4	417.5	417.6	420.0	424.8	428.3	428.3
172.5°	417.1	417.3	417.5	417.6	417.6	417.6	417.6	419.5	423.3	426.1	425.9
175°	420.2	420.2	420.2	420.2	419.3	418.2	417.6	418.8	421.2	423.0	423.0
177.5°	420.2	420.2	420.2	420.2	419.5	418.6	418.2	419.1	421.0	422.4	422.2
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	373.8	373.8
2.5°	399.1	396.6
5°	513.2	515.7
7.5°	691.1	689.9
10°	859.4	870.2
12.5°	982.0	984.4
15°	1056.5	1061.3
17.5°	1085.4	1086.6
20°	1086.6	1084.1
22.5°	1073.4	1070.9
25°	1057.7	1056.5
27.5°	1043.3	1044.4
30°	1037.3	1040.9
32.5°	1037.3	1043.3
35°	1039.7	1045.7
37.5°	1038.4	1045.7
40°	1033.7	1042.1
42.5°	1020.4	1026.4
45°	1000.1	1007.2
47.5°	973.6	978.4
50°	939.9	944.7
52.5°	897.8	899.1
55°	847.3	852.1
57.5°	793.3	794.5
60°	733.2	736.8
62.5°	669.5	669.5
65°	602.2	604.5
67.5°	532.5	538.5
70°	461.5	462.7
72.5°	391.9	391.9
75°	319.7	320.9
77.5°	251.2	251.2
80°	186.3	187.5
82.5°	128.6	131.0
85°	80.5	80.5
87.5°	37.3	33.7
90°	10.7	10.7
92.5°	42.9	34.4
95°	149.6	123.8
97.5°	358.5	309.4
100°	516.5	457.9
102.5°	671.9	621.7
105°	870.1	843.1
107.5°	999.9	1006.4
110°	1049.4	1077.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1053.8	1096.9
115°	1025.9	1085.7
117.5°	966.6	1032.9
120°	918.8	983.2
122.5°	872.3	935.9
125°	806.0	864.5
127.5°	746.4	795.8
130°	711.2	756.8
132.5°	679.3	720.2
135°	635.7	670.9
137.5°	600.5	629.4
140°	576.5	603.5
142.5°	556.5	579.7
145°	526.7	544.2
147.5°	503.8	518.3
150°	489.3	501.1
152.5°	476.9	485.8
155°	462.7	468.6
157.5°	451.5	455.6
160°	444.8	447.2
162.5°	440.4	442.7
165°	434.2	436.5
167.5°	429.6	430.6
170°	428.3	428.3
172.5°	425.0	424.1
175°	423.0	423.0
177.5°	421.2	420.2
180°	420.2	420.2



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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	5.45	6.36	6.38	7.32	8.57	18.59	19.50	19.52	20.46	21.71
	3H	6.16	6.98	7.10	7.95	9.22	20.42	21.24	21.36	22.21	23.48
	4H	6.46	7.24	7.42	8.21	9.49	21.05	21.83	22.02	22.81	24.08
	6H	6.71	7.43	7.69	8.41	9.70	21.48	22.19	22.45	23.17	24.46
	8H	6.78	7.47	7.76	8.46	9.75	21.59	22.28	22.57	23.27	24.56
	12H	6.80	7.45	7.79	8.44	9.76	21.65	22.31	22.64	23.30	24.61
4H	2H	12.65	13.43	13.61	14.40	15.68	18.87	19.65	19.84	20.62	21.90
	3H	14.22	14.87	15.20	15.88	17.17	20.91	21.56	21.88	22.56	23.85
	4H	14.32	14.92	15.31	15.91	17.23	21.67	22.26	22.65	23.26	24.57
	6H	14.33	14.85	15.33	15.87	17.18	22.20	22.71	23.19	23.73	25.04
	8H	14.31	14.79	15.31	15.81	17.13	22.35	22.83	23.35	23.85	25.17
	12H	14.27	14.71	15.29	15.73	17.07	22.44	22.88	23.46	23.90	25.24
8H	4H	15.76	16.24	16.76	17.25	18.58	21.73	22.21	22.73	23.23	24.55
	6H	16.00	16.40	17.03	17.46	18.78	22.35	22.75	23.38	23.80	25.13
	8H	16.02	16.38	17.06	17.41	18.76	22.56	22.92	23.60	23.96	25.30
	12H	15.99	16.30	17.03	17.34	18.73	22.70	23.01	23.74	24.05	25.44
12H	4H	15.90	16.34	16.92	17.36	18.70	21.69	22.12	22.71	23.15	24.49
	6H	16.26	16.61	17.29	17.65	19.00	22.33	22.69	23.37	23.73	25.07
	8H	16.33	16.64	17.37	17.68	19.06	22.56	22.87	23.60	23.90	25.29