

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: P937041

Luminaire Tested: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937041
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-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

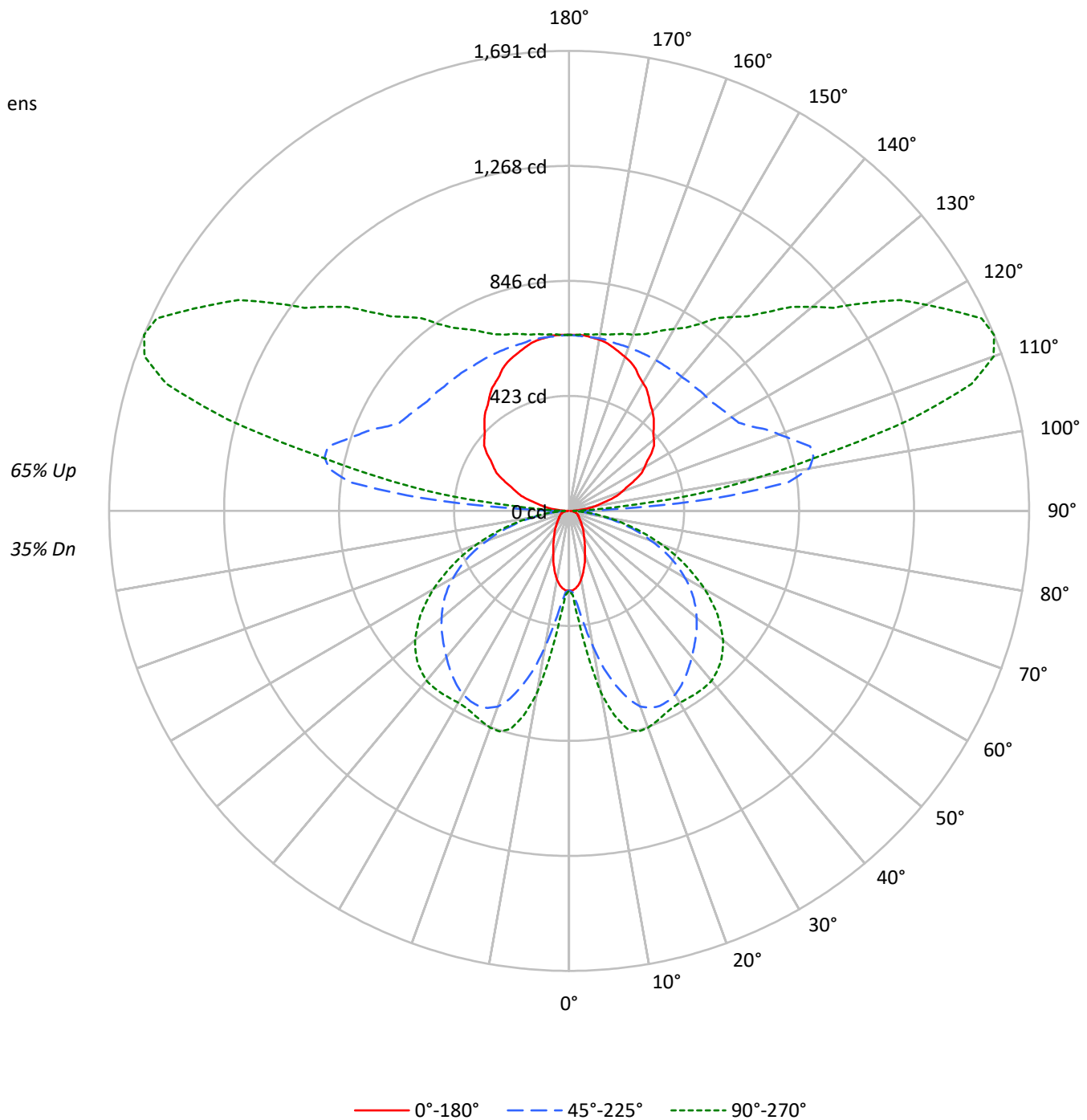
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6462.5 lumens
Efficiency: N/A
Efficacy: 125.2 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	35			35
1	94	90	86	82	85	81	78	75	65	63	61	50	49	47	37	36	35	29			29
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29	23			23
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24	19			19
4	71	60	52	46	63	54	47	42	44	39	35	34	30	27	25	22	20	16			16
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17	14			14
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	12			12
7	55	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13	10			10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12	9			9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10	8			8
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	14	11	9	7			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1809	1809	1809
5°	1767	2090	2431
10°	1601	3046	4031
15°	1361	3978	4867
20°	1108	4609	4961
25°	924	4822	4860
30°	778	4852	4850
35°	688	4769	4976
40°	599	4664	5106
45°	542	4585	5126
50°	496	4515	5041
55°	475	4413	4817
60°	487	4217	4464
65°	505	3920	3979
70°	536	3416	3362
75°	594	2783	2624
80°	641	1927	1768
85°	560	1023	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	0.6
10°-20°	167.6	2.6
20°-30°	293.2	4.5
30°-40°	377.5	5.8
40°-50°	421.6	6.5
50°-60°	403.8	6.2
60°-70°	320.0	5.0
70°-80°	188.2	2.9
80°-90°	54.7	0.8
90°-100°	315.7	4.9
100°-110°	829.9	12.8
110°-120°	860.5	13.3
120°-130°	690.3	10.7
130°-140°	541.6	8.4
140°-150°	415.7	6.4
150°-160°	299.4	4.6
160°-170°	183.2	2.8
170°-180°	61.9	1.0
0°-30°	498.7	7.7
0°-40°	876.1	13.6
0°-60°	1701.5	26.3
0°-90°	2264.4	35.0
90°-120°	2006.1	31.0
90°-150°	3653.7	56.5
90°-180°	4198.0	65.0
0°-180°	6462.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	285	306	344	389	403	26
15°	213	394	664	805	830	59
25°	136	447	791	825	826	63
35°	92	427	745	787	818	58
45°	63	340	658	754	788	49
55°	45	216	558	649	667	41
65°	36	115	415	466	473	35
75°	26	70	228	250	251	28
85°	9	22	56	62	63	10
90°	4	12	33	16	16	4
95°	42	163	544	280	191	46
105°	150	226	918	1393	1300	159
115°	266	322	735	1466	1673	262
125°	369	414	668	1130	1333	328
135°	440	485	648	912	1034	341
145°	511	543	639	778	839	320
155°	577	593	639	702	722	265
165°	623	631	639	665	673	176
175°	648	648	644	652	652	61
180°	648	648	648	648	648	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4
2.5°	292.4	292.4	294.2	295.2	297.1	298.1	299.9	301.8	307.4	308.4	310.2
5°	284.9	288.6	300.9	305.6	318.7	336.6	344.1	356.3	381.7	389.2	394.0
7.5°	273.6	282.1	312.1	319.7	352.6	399.6	419.3	445.7	486.0	505.9	521.8
10°	255.7	273.6	327.1	345.1	398.7	470.1	506.8	543.4	604.6	631.8	642.1
12.5°	236.0	265.2	343.1	367.6	444.7	549.0	593.3	633.7	703.3	739.9	745.5
15°	213.4	252.9	358.2	394.0	493.6	614.8	663.7	713.6	778.5	804.8	811.4
17.5°	193.7	243.5	372.3	410.0	531.2	674.1	723.9	765.3	818.0	835.8	840.5
20°	169.3	228.4	381.7	430.6	570.7	717.4	765.3	797.3	833.0	844.3	846.2
22.5°	151.3	212.5	387.3	438.1	597.0	743.7	784.1	809.5	833.9	837.7	838.6
25°	136.4	194.6	386.4	446.6	619.6	759.6	790.7	809.5	823.6	825.4	825.4
27.5°	122.3	174.9	382.7	448.5	636.5	763.5	787.9	801.0	807.6	811.4	811.4
30°	110.0	156.1	373.2	444.7	644.0	759.6	779.5	786.0	792.5	798.2	801.0
32.5°	100.6	138.2	359.1	437.2	644.9	750.3	764.4	768.1	777.5	790.7	795.4
35°	92.2	120.4	343.1	426.9	639.3	735.2	744.6	748.4	767.2	786.9	793.5
37.5°	83.7	107.2	322.5	409.0	630.8	717.4	723.9	730.6	759.6	783.2	790.7
40°	75.2	95.9	298.1	389.2	617.7	695.7	701.4	711.7	750.3	777.5	785.1
42.5°	68.6	86.5	271.7	368.6	600.7	671.3	679.7	694.8	739.0	768.1	776.6
45°	63.0	77.1	243.5	340.3	579.1	645.9	658.1	678.8	725.8	754.0	761.5
47.5°	57.4	70.5	214.3	311.2	555.7	620.6	636.5	660.0	707.9	735.2	741.8
50°	52.6	63.9	185.3	280.1	530.3	593.3	612.0	636.5	685.4	710.8	719.3
52.5°	48.9	58.3	158.0	249.2	501.1	565.0	586.7	612.0	658.1	682.6	688.2
55°	45.1	53.6	134.4	216.2	471.0	534.9	558.5	582.9	628.0	648.7	652.5
57.5°	43.3	49.8	114.7	185.3	439.0	501.1	527.5	550.0	592.3	608.3	612.0
60°	40.5	47.0	99.6	158.9	404.3	469.1	491.7	514.3	550.0	563.2	566.0
62.5°	37.6	45.1	88.4	133.5	368.6	431.6	454.1	474.8	504.8	514.3	518.0
65°	35.7	43.3	79.9	114.7	331.9	392.0	414.6	432.5	456.9	466.3	468.2
67.5°	33.8	41.4	73.4	98.7	295.2	352.6	369.5	386.4	405.2	414.6	415.6
70°	31.0	39.4	67.7	87.4	257.6	307.4	321.5	339.4	354.4	359.1	362.0
72.5°	29.2	36.6	63.9	79.0	219.1	264.1	277.3	287.7	300.9	305.6	305.6
75°	26.4	32.9	60.2	70.5	179.6	216.2	227.5	237.9	248.2	250.1	247.2
77.5°	23.5	29.2	51.7	59.3	140.1	171.1	180.5	186.2	194.6	196.5	197.4
80°	19.7	25.4	40.5	46.1	101.5	126.0	132.5	137.3	144.8	144.8	146.7
82.5°	15.0	19.7	29.2	32.9	68.6	86.5	92.2	95.0	99.6	99.6	99.6
85°	9.4	12.2	18.8	21.6	41.4	52.6	56.5	57.4	61.1	62.1	62.1
87.5°	4.7	6.5	12.2	13.2	21.6	27.3	27.3	29.2	29.2	28.2	27.3
90°	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1	16.5	16.5
92.5°	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0	82.5	79.3
95°	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1	280.3	270.4
97.5°	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7	647.2	628.2
100°	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8	908.8	886.3
102.5°	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5	1132.2	1112.9
105°	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5	1393.0	1382.6
107.5°	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6	1528.6	1531.1
110°	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3	1563.4	1574.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2	1541.1	1557.8
115°	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3	1466.0	1489.0
117.5°	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2	1362.1	1387.7
120°	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2	1292.1	1317.0
122.5°	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2	1222.1	1246.6
125°	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9	1129.6	1152.1
127.5°	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3	1055.3	1074.4
130°	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9	1008.4	1025.9
132.5°	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2	968.4	984.1
135°	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8	911.8	925.4
137.5°	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6	870.1	881.2
140°	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3	836.7	847.0
142.5°	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6	813.2	822.2
145°	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8	778.0	784.7
147.5°	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1	748.4	754.0
150°	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7	731.5	736.1
152.5°	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8	718.0	721.5
155°	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1	702.0	704.2
157.5°	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8	688.0	689.6
160°	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1	681.0	682.0
162.5°	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8	674.6	675.4
165°	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2	664.6	665.5
167.5°	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7	660.2	660.6
170°	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7	660.2	660.2
172.5°	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3	656.7	656.4
175°	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2	652.0	652.0
177.5°	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0	651.1	650.7
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	292.4	292.4
2.5°	312.1	310.2
5°	401.5	403.3
7.5°	540.6	539.7
10°	672.2	680.7
12.5°	768.1	770.0
15°	826.5	830.2
17.5°	849.0	849.9
20°	849.9	848.1
22.5°	839.6	837.7
25°	827.4	826.5
27.5°	816.1	817.0
30°	811.4	814.2
32.5°	811.4	816.1
35°	813.3	818.0
37.5°	812.4	818.0
40°	808.5	815.2
42.5°	798.2	802.9
45°	782.3	787.9
47.5°	761.5	765.3
50°	735.2	739.0
52.5°	702.3	703.3
55°	662.8	666.6
57.5°	620.6	621.5
60°	573.5	576.3
62.5°	523.7	523.7
65°	471.0	472.9
67.5°	416.5	421.2
70°	361.1	362.0
72.5°	306.5	306.5
75°	250.1	251.1
77.5°	196.5	196.5
80°	145.7	146.7
82.5°	100.6	102.4
85°	63.0	63.0
87.5°	29.2	26.4
90°	16.5	16.5
92.5°	66.1	53.0
95°	230.6	190.8
97.5°	552.5	476.8
100°	796.0	705.8
102.5°	1035.7	958.4
105°	1341.0	1299.5
107.5°	1541.1	1551.1
110°	1617.4	1660.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1624.2	1690.7
115°	1581.1	1673.3
117.5°	1489.8	1592.0
120°	1416.3	1515.5
122.5°	1344.6	1442.5
125°	1242.4	1332.6
127.5°	1150.4	1226.5
130°	1096.2	1166.5
132.5°	1047.1	1110.1
135°	979.7	1034.0
137.5°	925.6	970.1
140°	888.6	930.1
142.5°	857.9	893.6
145°	811.8	838.8
147.5°	776.4	798.8
150°	754.2	772.3
152.5°	735.1	748.9
155°	713.3	722.3
157.5°	696.0	702.3
160°	685.6	689.3
162.5°	678.9	682.3
165°	669.2	672.8
167.5°	662.1	663.6
170°	660.2	660.2
172.5°	655.0	653.6
175°	652.0	652.0
177.5°	649.2	647.6
180°	647.6	647.6



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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	1.51	2.27	2.58	3.35	4.82	14.67	15.44	15.74	16.51	17.98
	3H	2.21	2.89	3.28	3.98	5.46	16.50	17.19	17.58	18.27	19.76
	4H	2.50	3.15	3.59	4.24	5.73	17.14	17.79	18.23	18.88	20.37
	6H	2.75	3.35	3.84	4.44	5.94	17.56	18.16	18.66	19.25	20.75
	8H	2.81	3.38	3.91	4.49	5.99	17.67	18.25	18.78	19.35	20.85
	12H	2.82	3.37	3.93	4.47	5.99	17.74	18.28	18.85	19.38	20.90
4H	2H	8.70	9.36	9.80	10.44	11.93	14.94	15.59	16.03	16.67	18.17
	3H	10.26	10.81	11.37	11.92	13.43	16.97	17.51	18.07	18.63	20.13
	4H	10.35	10.86	11.46	11.96	13.48	17.73	18.23	18.84	19.33	20.86
	6H	10.36	10.79	11.48	11.92	13.43	18.26	18.69	19.37	19.81	21.33
	8H	10.33	10.74	11.45	11.85	13.39	18.41	18.82	19.53	19.93	21.47
	12H	10.28	10.65	11.42	11.78	13.32	18.50	18.86	19.63	19.99	21.53
8H	4H	11.79	12.19	12.90	13.31	14.84	17.78	18.18	18.90	19.30	20.83
	6H	12.02	12.36	13.16	13.52	15.05	18.40	18.73	19.54	19.89	21.42
	8H	12.04	12.33	13.19	13.47	15.02	18.62	18.91	19.76	20.05	21.60
	12H	12.00	12.26	13.15	13.40	14.98	18.75	19.01	19.90	20.15	21.73
12H	4H	11.92	12.29	13.06	13.42	14.96	17.73	18.09	18.86	19.22	20.76
	6H	12.28	12.57	13.42	13.71	15.26	18.38	18.67	19.53	19.81	21.36
	8H	12.35	12.60	13.49	13.74	15.32	18.60	18.86	19.75	20.00	21.58