

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: P937040

Luminaire Tested: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937040
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-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

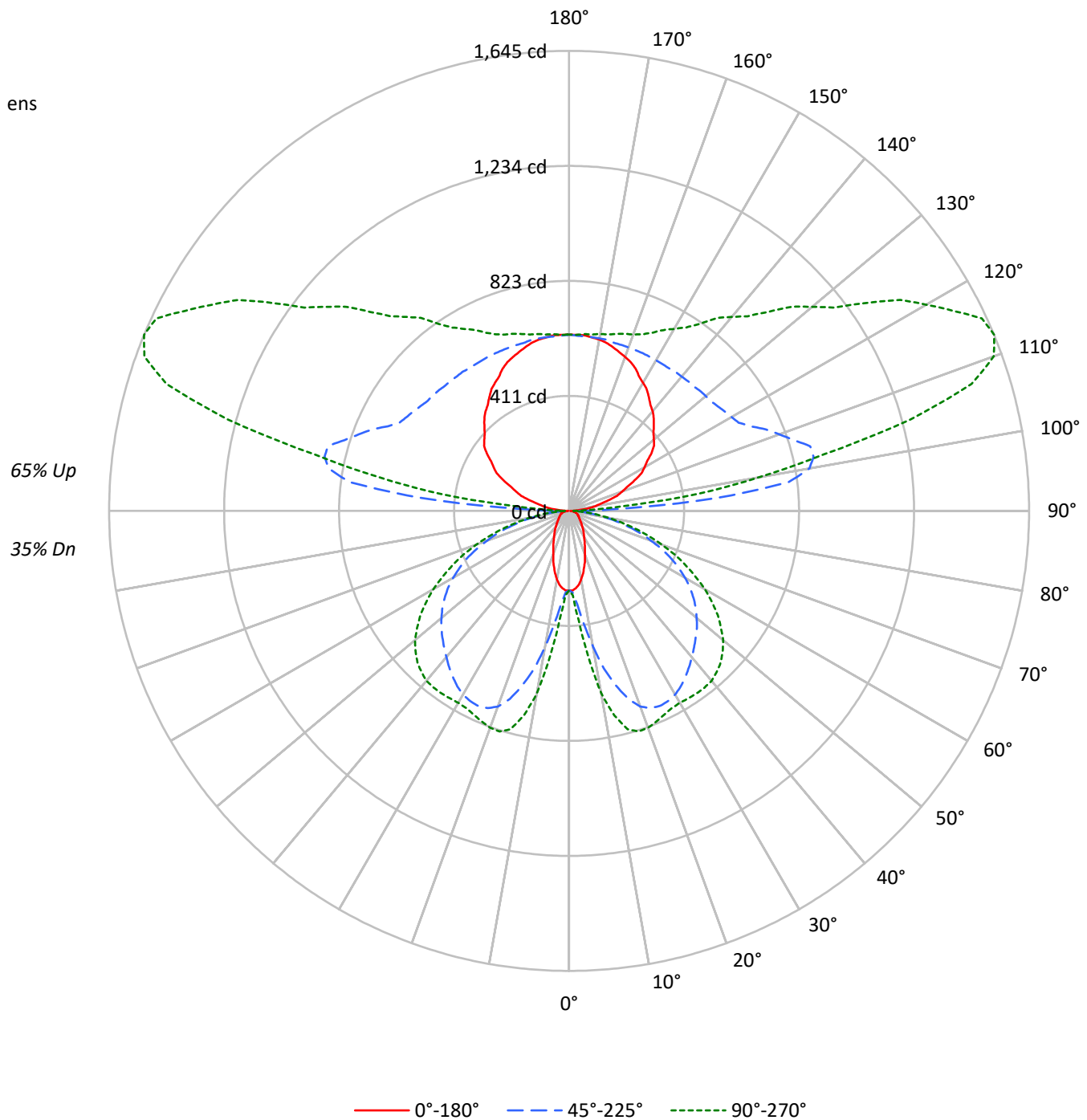
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6289.2 lumens
Efficiency: N/A
Efficacy: 121.9 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°	1760	1760	1760
5°	1719	2034	2366
10°	1559	2964	3922
15°	1324	3871	4736
20°	1078	4486	4827
25°	899	4693	4729
30°	758	4721	4720
35°	670	4641	4842
40°	583	4539	4969
45°	527	4463	4988
50°	483	4394	4906
55°	462	4294	4689
60°	474	4104	4345
65°	490	3815	3873
70°	522	3325	3272
75°	578	2708	2553
80°	625	1876	1720
85°	549	994	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	0.6
10°-20°	163.1	2.6
20°-30°	285.4	4.5
30°-40°	367.3	5.8
40°-50°	410.3	6.5
50°-60°	393.0	6.2
60°-70°	311.4	5.0
70°-80°	183.1	2.9
80°-90°	53.3	0.8
90°-100°	307.2	4.9
100°-110°	807.7	12.8
110°-120°	837.4	13.3
120°-130°	671.8	10.7
130°-140°	527.1	8.4
140°-150°	404.6	6.4
150°-160°	291.3	4.6
160°-170°	178.3	2.8
170°-180°	60.2	1.0
0°-30°	485.3	7.7
0°-40°	852.6	13.6
0°-60°	1655.9	26.3
0°-90°	2203.7	35.0
90°-120°	1952.3	31.0
90°-150°	3555.7	56.5
90°-180°	4086.0	65.0
0°-180°	6289.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	277	297	335	379	392	26
15°	208	383	646	783	808	58
25°	133	435	770	803	804	61
35°	90	415	725	766	796	56
45°	61	331	640	734	767	47
55°	44	210	544	631	649	40
65°	35	112	404	454	460	34
75°	26	69	221	243	244	27
85°	9	21	55	60	61	10
90°	4	12	32	16	16	4
95°	41	159	529	273	186	45
105°	146	220	893	1356	1265	154
115°	258	314	715	1427	1628	255
125°	360	403	651	1099	1297	319
135°	428	472	630	887	1006	331
145°	497	529	622	757	816	311
155°	562	577	622	683	703	258
165°	606	614	622	647	655	171
175°	630	630	626	634	634	60
180°	630	630	630	630	630	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5
2.5°	284.5	284.5	286.4	287.3	289.2	290.1	291.9	293.7	299.2	300.1	301.9
5°	277.3	280.9	292.8	297.4	310.2	327.6	334.8	346.8	371.5	378.8	383.4
7.5°	266.3	274.5	303.7	311.1	343.1	388.9	408.1	433.7	473.0	492.3	507.9
10°	248.9	266.3	318.4	335.8	388.0	457.5	493.2	528.9	588.4	614.8	624.9
12.5°	229.7	258.1	333.9	357.8	432.8	534.3	577.3	616.7	684.4	720.1	725.5
15°	207.7	246.1	348.6	383.4	480.4	598.4	645.9	694.5	757.6	783.2	789.7
17.5°	188.5	237.0	362.3	399.0	516.9	656.0	704.5	744.8	796.0	813.4	817.9
20°	164.7	222.3	371.5	419.1	555.4	698.1	744.8	775.9	810.7	821.7	823.5
22.5°	147.3	206.8	377.0	426.3	581.0	723.7	763.1	787.7	811.6	815.2	816.1
25°	132.7	189.4	376.0	434.6	603.0	739.3	769.5	787.7	801.5	803.3	803.3
27.5°	119.0	170.2	372.4	436.4	619.5	743.0	766.7	779.6	785.9	789.7	789.7
30°	107.1	151.9	363.2	432.8	626.7	739.3	758.5	764.9	771.3	776.8	779.6
32.5°	97.9	134.5	349.5	425.4	627.6	730.2	743.9	747.5	756.6	769.5	774.1
35°	89.7	117.2	333.9	415.4	622.2	715.5	724.6	728.3	746.6	765.8	772.2
37.5°	81.4	104.3	313.8	398.1	613.9	698.1	704.5	711.0	739.3	762.2	769.5
40°	73.2	93.3	290.1	378.8	601.2	677.0	682.6	692.6	730.2	756.6	764.0
42.5°	66.8	84.1	264.4	358.7	584.6	653.3	661.5	676.1	719.2	747.5	755.7
45°	61.3	75.0	237.0	331.2	563.6	628.6	640.5	660.6	706.3	733.8	741.1
47.5°	55.9	68.6	208.6	302.8	540.8	603.9	619.5	642.3	689.0	715.5	721.9
50°	51.2	62.2	180.3	272.6	516.0	577.3	595.6	619.5	667.0	691.7	700.0
52.5°	47.6	56.8	153.7	242.5	487.7	549.9	571.0	595.6	640.5	664.3	669.8
55°	43.9	52.1	130.8	210.4	458.4	520.6	543.5	567.2	611.2	631.3	635.0
57.5°	42.1	48.5	111.6	180.3	427.3	487.7	513.3	535.2	576.4	592.0	595.6
60°	39.4	45.8	97.0	154.6	393.4	456.5	478.6	500.5	535.2	548.1	550.8
62.5°	36.6	43.9	86.1	129.9	358.7	420.0	441.9	462.1	491.3	500.5	504.1
65°	34.7	42.1	77.8	111.6	323.0	381.5	403.5	420.9	444.6	453.8	455.6
67.5°	32.9	40.3	71.4	96.1	287.3	343.1	359.6	376.0	394.3	403.5	404.4
70°	30.2	38.4	65.9	85.1	250.7	299.2	312.9	330.3	344.9	349.5	352.3
72.5°	28.4	35.7	62.2	76.9	213.2	257.1	269.9	280.0	292.8	297.4	297.4
75°	25.7	32.0	58.6	68.6	174.7	210.4	221.4	231.5	241.5	243.4	240.6
77.5°	22.8	28.4	50.3	57.7	136.4	166.6	175.7	181.2	189.4	191.2	192.1
80°	19.2	24.7	39.4	44.8	98.8	122.6	129.0	133.6	140.9	140.9	142.7
82.5°	14.6	19.2	28.4	32.0	66.8	84.1	89.7	92.4	97.0	97.0	97.0
85°	9.2	11.9	18.3	21.0	40.3	51.2	54.9	55.9	59.5	60.4	60.4
87.5°	4.5	6.4	11.9	12.8	21.0	26.6	26.6	28.4	28.4	27.5	26.6
90°	4.2	7.5	11.0	11.8	18.6	27.6	32.1	28.6	21.5	16.1	16.1
92.5°	16.9	45.7	74.4	81.6	114.7	158.9	181.0	158.6	113.9	80.3	77.1
95°	40.6	93.2	145.8	159.0	282.4	446.9	529.1	472.2	358.2	272.8	263.2
97.5°	70.2	116.6	163.0	174.7	380.4	654.7	791.8	755.8	683.9	629.8	611.4
100°	93.1	135.2	177.3	187.8	416.1	720.4	872.6	875.3	880.5	884.4	862.5
102.5°	112.5	151.8	191.1	200.9	432.4	741.1	895.4	941.3	1033.1	1101.8	1083.0
105°	145.5	178.8	212.1	220.4	444.5	743.4	892.9	995.7	1201.4	1355.6	1345.5
107.5°	179.4	210.4	241.4	249.1	446.8	710.3	842.1	985.6	1272.5	1487.6	1490.1
110°	202.2	230.2	258.2	265.2	443.4	681.0	799.8	960.2	1281.0	1521.5	1532.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	224.6	251.2	278.0	284.6	443.5	655.4	761.4	925.5	1253.7	1499.8	1516.0
115°	258.4	283.1	307.6	313.8	447.6	626.0	715.2	873.3	1189.5	1426.7	1449.1
117.5°	291.8	314.2	336.6	342.2	456.0	607.6	683.5	826.2	1111.6	1325.6	1350.4
120°	311.3	332.4	353.4	358.7	462.7	601.5	670.9	801.2	1061.9	1257.5	1281.7
122.5°	330.4	351.6	372.9	378.1	472.5	598.3	661.1	778.5	1013.2	1189.4	1213.2
125°	359.5	378.9	398.2	403.1	485.6	595.5	650.6	750.3	949.8	1099.3	1121.2
127.5°	383.2	402.8	422.3	427.2	498.7	594.0	641.7	727.3	898.5	1027.0	1045.5
130°	395.9	417.0	438.0	443.3	508.3	595.0	638.3	714.5	867.0	981.3	998.4
132.5°	409.0	430.1	451.1	456.4	516.0	595.5	635.3	703.5	840.0	942.4	957.7
135°	428.4	447.6	466.8	471.6	524.5	595.0	630.2	687.3	801.7	887.4	900.5
137.5°	448.4	467.3	486.3	491.0	537.1	598.6	629.4	677.7	774.3	846.8	857.6
140°	464.8	482.3	499.8	504.2	545.0	599.3	626.4	668.1	751.6	814.2	824.3
142.5°	477.6	493.8	509.9	513.9	551.4	601.4	626.4	663.0	736.4	791.4	800.1
145°	497.0	511.1	525.1	528.7	559.9	601.5	622.2	652.2	712.2	757.1	763.6
147.5°	516.4	530.1	543.9	547.3	572.3	605.5	622.2	645.8	693.0	728.3	733.8
150°	529.1	541.5	554.0	557.1	578.8	607.7	622.2	642.1	682.0	711.9	716.3
152.5°	542.2	551.7	561.1	563.4	583.0	609.1	622.2	639.2	673.2	698.8	702.1
155°	561.7	568.6	575.6	577.3	592.3	612.2	622.2	635.7	662.9	683.1	685.3
157.5°	576.1	582.9	589.6	591.4	601.6	615.4	622.2	632.7	653.8	669.6	671.1
160°	585.8	591.1	596.4	597.6	605.8	616.7	622.2	631.2	649.2	662.8	663.7
162.5°	595.5	599.5	603.5	604.5	610.4	618.3	622.2	629.8	645.0	656.5	657.3
165°	606.1	609.7	613.3	614.2	616.8	620.4	622.2	627.6	638.6	646.8	647.7
167.5°	615.8	617.6	619.2	619.6	621.9	624.9	626.4	629.9	637.1	642.5	642.8
170°	622.2	623.9	625.6	626.0	626.1	626.3	626.4	629.9	637.1	642.5	642.5
172.5°	625.6	625.9	626.3	626.4	626.4	626.4	626.4	629.2	634.8	639.1	638.7
175°	630.2	630.2	630.2	630.2	628.9	627.2	626.4	628.2	631.7	634.5	634.5
177.5°	630.2	630.2	630.2	630.2	629.2	627.9	627.3	628.7	631.6	633.7	633.3
180°	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	284.5	284.5
2.5°	303.7	301.9
5°	390.7	392.5
7.5°	526.1	525.2
10°	654.2	662.4
12.5°	747.5	749.4
15°	804.3	807.9
17.5°	826.2	827.1
20°	827.1	825.3
22.5°	817.0	815.2
25°	805.2	804.3
27.5°	794.2	795.1
30°	789.7	792.4
32.5°	789.7	794.2
35°	791.5	796.0
37.5°	790.6	796.0
40°	786.8	793.3
42.5°	776.8	781.4
45°	761.3	766.7
47.5°	741.1	744.8
50°	715.5	719.2
52.5°	683.5	684.4
55°	645.0	648.8
57.5°	603.9	604.8
60°	558.2	560.9
62.5°	509.7	509.7
65°	458.4	460.2
67.5°	405.3	409.9
70°	351.4	352.3
72.5°	298.3	298.3
75°	243.4	244.3
77.5°	191.2	191.2
80°	141.8	142.7
82.5°	97.9	99.7
85°	61.3	61.3
87.5°	28.4	25.7
90°	16.1	16.1
92.5°	64.3	51.6
95°	224.4	185.7
97.5°	537.7	464.0
100°	774.6	686.9
102.5°	1007.9	932.7
105°	1305.1	1264.7
107.5°	1499.8	1509.5
110°	1574.0	1616.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1580.7	1645.4
115°	1538.7	1628.4
117.5°	1449.9	1549.3
120°	1378.3	1474.9
122.5°	1308.5	1403.8
125°	1209.1	1296.9
127.5°	1119.6	1193.6
130°	1066.8	1135.2
132.5°	1019.0	1080.3
135°	953.4	1006.2
137.5°	900.8	944.1
140°	864.8	905.2
142.5°	834.9	869.6
145°	790.0	816.3
147.5°	755.5	777.4
150°	734.0	751.6
152.5°	715.4	728.8
155°	694.1	703.0
157.5°	677.3	683.5
160°	667.2	670.9
162.5°	660.7	664.0
165°	651.2	654.8
167.5°	644.4	645.8
170°	642.5	642.5
172.5°	637.5	636.1
175°	634.5	634.5
177.5°	631.7	630.2
180°	630.2	630.2



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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	1.41	2.18	2.48	3.25	4.72	14.58	15.34	15.65	16.42	17.89
	3H	2.11	2.80	3.19	3.88	5.37	16.41	17.09	17.48	18.18	19.66
	4H	2.41	3.06	3.50	4.14	5.64	17.04	17.70	18.13	18.78	20.27
	6H	2.65	3.25	3.75	4.34	5.84	17.46	18.07	18.56	19.15	20.66
	8H	2.72	3.29	3.82	4.39	5.89	17.58	18.15	18.68	19.26	20.76
	12H	2.73	3.27	3.84	4.37	5.89	17.64	18.19	18.75	19.28	20.81
4H	2H	8.61	9.26	9.71	10.35	11.84	14.84	15.49	15.94	16.58	18.07
	3H	10.17	10.71	11.27	11.83	13.33	16.87	17.42	17.98	18.53	20.04
	4H	10.26	10.76	11.37	11.86	13.39	17.63	18.13	18.74	19.24	20.76
	6H	10.26	10.70	11.38	11.82	13.34	18.16	18.59	19.28	19.72	21.24
	8H	10.24	10.64	11.36	11.76	13.29	18.32	18.72	19.44	19.84	21.37
	12H	10.19	10.56	11.32	11.69	13.22	18.40	18.77	19.54	19.90	21.44
8H	4H	11.69	12.10	12.81	13.21	14.75	17.69	18.09	18.80	19.21	20.74
	6H	11.93	12.26	13.07	13.42	14.95	18.31	18.64	19.44	19.80	21.33
	8H	11.95	12.24	13.09	13.38	14.93	18.52	18.81	19.67	19.95	21.50
	12H	11.91	12.17	13.06	13.30	14.89	18.66	18.91	19.81	20.05	21.64
12H	4H	11.83	12.20	12.96	13.32	14.86	17.63	18.00	18.77	19.13	20.67
	6H	12.19	12.48	13.33	13.62	15.17	18.29	18.58	19.43	19.72	21.27
	8H	12.25	12.51	13.40	13.64	15.23	18.51	18.77	19.66	19.90	21.49