

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: P937950

Luminaire Tested: SQ4-FB-125U-075D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937950
REPORT IS A COMBINATION OF REPORTS P933598 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

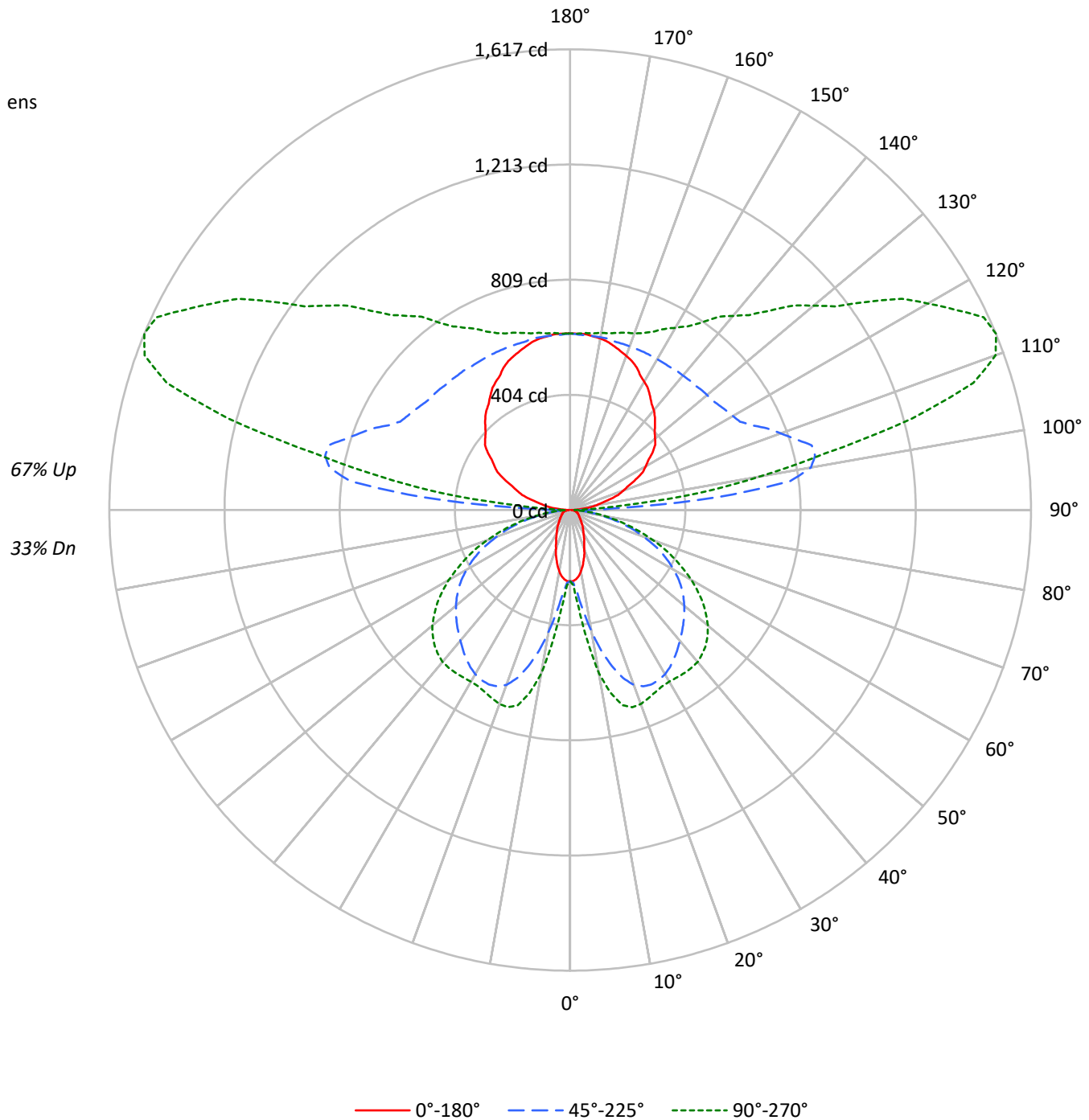
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5950.2 lumens
Efficiency: N/A
Efficacy: 107.0 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: Semi-Indirect

Input Watts (W): 55.6
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	40	33
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33	33	33	33	27
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27	27	27	27	22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23	23	23	23	18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	19	19	19	15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	16	16	16	13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14	14	14	14	11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	12	12	12	10
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	11	11	11	8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	10	10	10	7
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2317	2317	2317
5°	2261	2676	3115
10°	2049	3898	5164
15°	1740	5089	6235
20°	1414	5893	6355
25°	1178	6163	6225
30°	993	6197	6214
35°	876	6089	6375
40°	762	5950	6541
45°	689	5847	6566
50°	631	5754	6458
55°	601	5618	6171
60°	614	5365	5719
65°	636	4981	5098
70°	673	4335	4308
75°	738	3525	3361
80°	791	2436	2265
85°	662	1286	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6566 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	0.5
10°-20°	143.2	2.4
20°-30°	250.4	4.2
30°-40°	322.4	5.4
40°-50°	360.1	6.1
50°-60°	344.9	5.8
60°-70°	273.3	4.6
70°-80°	160.7	2.7
80°-90°	47.0	0.8
90°-100°	302.0	5.1
100°-110°	793.9	13.3
110°-120°	823.2	13.8
120°-130°	660.3	11.1
130°-140°	518.1	8.7
140°-150°	397.7	6.7
150°-160°	286.4	4.8
160°-170°	175.2	2.9
170°-180°	59.2	1.0
0°-30°	425.9	7.2
0°-40°	748.3	12.6
0°-60°	1453.3	24.4
0°-90°	1934.3	32.5
90°-120°	1919.0	32.3
90°-150°	3495.1	58.7
90°-180°	4016.0	67.5
0°-180°	5950.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	250	250	250	250	250	
5°	243	261	294	332	344	22
15°	182	336	567	687	709	51
25°	116	381	675	705	706	54
35°	79	365	636	672	699	49
45°	54	291	562	644	673	42
55°	38	185	477	554	569	35
65°	30	98	354	398	404	30
75°	22	60	194	214	214	24
85°	8	18	48	53	54	8
90°	4	12	32	16	16	4
95°	40	156	520	268	182	44
105°	143	217	878	1332	1243	152
115°	254	308	703	1402	1601	251
125°	353	396	639	1080	1275	314
135°	421	464	620	872	989	326
145°	488	520	612	744	802	306
155°	552	568	612	672	691	254
165°	596	604	612	636	644	168
175°	620	620	616	624	624	59
180°	620	620	620	620	620	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7
2.5°	249.7	249.7	251.3	252.1	253.7	254.6	256.2	257.8	262.6	263.4	265.0
5°	243.3	246.5	257.0	261.0	272.2	287.5	293.9	304.3	326.0	332.4	336.5
7.5°	233.7	240.9	266.6	273.0	301.1	341.3	358.1	380.6	415.2	432.0	445.7
10°	218.4	233.7	279.4	294.7	340.5	401.5	432.8	464.1	516.3	539.6	548.4
12.5°	201.6	226.4	293.1	314.0	379.8	469.0	506.7	541.2	600.6	632.0	636.8
15°	182.3	216.0	305.9	336.5	421.6	525.2	566.9	609.5	664.9	687.4	693.0
17.5°	165.4	208.0	318.0	350.1	453.7	575.8	618.3	653.6	698.6	713.9	717.9
20°	144.5	195.1	326.0	367.8	487.4	612.7	653.6	680.9	711.5	721.1	722.7
22.5°	129.3	181.5	330.8	374.2	509.9	635.2	669.7	691.4	712.3	715.5	716.3
25°	116.4	166.2	330.0	381.4	529.2	648.8	675.3	691.4	703.4	705.0	705.0
27.5°	104.4	149.4	326.8	383.0	543.6	652.0	672.9	684.2	689.8	693.0	693.0
30°	94.0	133.3	318.8	379.8	550.1	648.8	665.7	671.3	676.9	681.7	684.2
32.5°	85.9	118.0	306.7	373.4	550.9	640.8	652.8	656.1	664.1	675.3	679.3
35°	78.7	102.8	293.1	364.6	546.0	627.9	636.0	639.2	655.2	672.1	677.7
37.5°	71.5	91.5	275.4	349.3	538.8	612.7	618.3	623.9	648.8	668.9	675.3
40°	64.2	81.9	254.6	332.4	527.6	594.2	599.0	607.9	640.8	664.1	670.5
42.5°	58.6	73.9	232.1	314.8	513.1	573.3	580.6	593.4	631.2	656.1	663.3
45°	53.8	65.8	208.0	290.7	494.6	551.7	562.1	579.8	619.9	644.0	650.4
47.5°	49.0	60.2	183.1	265.8	474.6	530.0	543.6	563.7	604.7	627.9	633.6
50°	45.0	54.6	158.2	239.3	452.9	506.7	522.8	543.6	585.4	607.1	614.3
52.5°	41.8	49.8	134.9	212.8	428.0	482.6	501.1	522.8	562.1	583.0	587.8
55°	38.5	45.8	114.8	184.7	402.3	456.9	477.0	497.9	536.4	554.1	557.3
57.5°	36.9	42.6	98.0	158.2	375.0	428.0	450.5	469.8	505.9	519.5	522.8
60°	34.5	40.2	85.1	135.7	345.3	400.7	420.0	439.2	469.8	481.0	483.4
62.5°	32.1	38.5	75.5	114.0	314.8	368.6	387.8	405.5	431.2	439.2	442.5
65°	30.5	36.9	68.3	98.0	283.5	334.9	354.1	369.4	390.3	398.3	399.9
67.5°	28.9	35.3	62.6	84.3	252.1	301.1	315.6	330.0	346.1	354.1	354.9
70°	26.5	33.7	57.8	74.7	220.0	262.6	274.6	289.9	302.7	306.7	309.2
72.5°	24.9	31.3	54.6	67.5	187.1	225.6	236.9	245.7	257.0	261.0	261.0
75°	22.5	28.1	51.4	60.2	153.4	184.7	194.3	203.2	212.0	213.6	211.2
77.5°	20.1	24.9	44.2	50.6	119.6	146.1	154.2	159.0	166.2	167.8	168.6
80°	16.9	21.7	34.5	39.3	86.7	107.6	113.2	117.2	123.7	123.7	125.3
82.5°	12.8	16.9	24.9	28.1	58.6	73.9	78.7	81.1	85.1	85.1	85.1
85°	8.0	10.4	16.1	18.5	35.3	45.0	48.2	49.0	52.2	53.0	53.0
87.5°	4.0	5.6	10.4	11.2	18.5	23.3	23.3	24.9	24.9	24.1	23.3
90°	4.2	7.5	10.8	11.6	18.3	27.1	31.6	28.0	21.0	15.8	15.8
92.5°	16.6	44.9	73.2	80.2	112.8	156.3	177.9	155.9	112.0	79.0	75.9
95°	39.9	91.6	143.4	156.3	277.6	439.2	520.1	464.1	352.2	268.2	258.6
97.5°	69.0	114.6	160.3	171.7	373.9	643.4	778.3	742.9	672.1	619.0	601.0
100°	91.5	132.9	174.3	184.6	409.0	708.1	857.7	860.3	865.5	869.3	847.7
102.5°	110.6	149.2	187.8	197.5	425.0	728.5	880.2	925.3	1015.5	1083.1	1064.6
105°	143.0	175.8	208.5	216.6	437.0	730.8	877.7	978.8	1180.9	1332.5	1322.5
107.5°	176.3	206.8	237.3	244.9	439.2	698.3	827.8	968.8	1250.8	1462.2	1464.6
110°	198.7	226.3	253.7	260.7	435.9	669.5	786.2	943.8	1259.1	1495.5	1505.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.7	247.0	273.2	279.8	435.9	644.2	748.4	909.7	1232.4	1474.3	1490.2
115°	254.0	278.2	302.5	308.5	440.0	615.3	703.0	858.4	1169.2	1402.4	1424.4
117.5°	286.9	308.9	330.9	336.4	448.2	597.4	671.9	812.1	1092.6	1302.9	1327.4
120°	306.0	326.7	347.5	352.6	454.9	591.2	659.4	787.6	1043.8	1236.1	1259.8
122.5°	324.7	345.6	366.5	371.7	464.5	588.0	649.9	765.3	996.0	1169.1	1192.5
125°	353.4	372.4	391.5	396.2	477.3	585.4	639.4	737.5	933.5	1080.5	1102.1
127.5°	376.7	395.9	415.1	419.9	490.2	583.9	630.7	714.8	883.2	1009.5	1027.7
130°	389.1	409.9	430.6	435.7	499.6	584.8	627.4	702.3	852.1	964.6	981.3
132.5°	402.1	422.8	443.5	448.6	507.3	585.4	624.5	691.5	825.7	926.3	941.4
135°	421.2	440.0	458.8	463.6	515.5	584.8	619.5	675.7	788.1	872.3	885.3
137.5°	440.7	459.3	478.0	482.7	528.0	588.4	618.6	666.1	761.1	832.3	842.9
140°	456.9	474.1	491.3	495.6	535.7	589.1	615.7	656.8	738.8	800.4	810.3
142.5°	469.4	485.3	501.2	505.2	542.0	591.2	615.7	651.8	723.8	777.9	786.4
145°	488.5	502.4	516.2	519.7	550.3	591.2	611.6	641.0	700.0	744.2	750.7
147.5°	507.7	521.1	534.6	538.0	562.5	595.2	611.6	634.8	681.2	716.0	721.3
150°	520.1	532.3	544.5	547.6	568.9	597.4	611.6	631.2	670.3	699.7	704.1
152.5°	533.0	542.3	551.5	553.8	573.1	598.7	611.6	628.3	661.8	686.8	690.1
155°	552.1	559.0	565.8	567.5	582.2	601.8	611.6	624.9	651.5	671.5	673.6
157.5°	566.3	572.9	579.5	581.2	591.3	604.8	611.6	621.9	642.6	658.1	659.7
160°	575.8	581.0	586.2	587.5	595.5	606.2	611.6	620.4	638.1	651.5	652.4
162.5°	585.4	589.2	593.2	594.1	599.9	607.7	611.6	619.0	634.0	645.3	646.1
165°	595.7	599.3	602.8	603.7	606.3	609.8	611.6	616.9	627.6	635.7	636.5
167.5°	605.4	607.0	608.7	609.1	611.3	614.3	615.7	619.3	626.3	631.6	632.0
170°	611.6	613.3	614.9	615.3	615.5	615.7	615.7	619.3	626.3	631.6	631.6
172.5°	614.9	615.3	615.7	615.7	615.7	615.7	615.7	618.5	624.0	628.2	627.9
175°	619.5	619.5	619.5	619.5	618.2	616.5	615.7	617.5	621.0	623.6	623.6
177.5°	619.5	619.5	619.5	619.5	618.6	617.2	616.5	617.9	620.7	622.8	622.4
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	249.7	249.7
2.5°	266.6	265.0
5°	342.9	344.5
7.5°	461.7	460.9
10°	574.1	581.4
12.5°	656.1	657.7
15°	705.8	709.0
17.5°	725.1	725.9
20°	725.9	724.3
22.5°	717.1	715.5
25°	706.6	705.8
27.5°	697.0	697.8
30°	693.0	695.4
32.5°	693.0	697.0
35°	694.6	698.6
37.5°	693.8	698.6
40°	690.6	696.2
42.5°	681.7	685.8
45°	668.1	672.9
47.5°	650.4	653.6
50°	627.9	631.2
52.5°	599.8	600.6
55°	566.1	569.3
57.5°	530.0	530.8
60°	489.8	492.2
62.5°	447.3	447.3
65°	402.3	403.9
67.5°	355.7	359.7
70°	308.4	309.2
72.5°	261.8	261.8
75°	213.6	214.4
77.5°	167.8	167.8
80°	124.5	125.3
82.5°	85.9	87.5
85°	53.8	53.8
87.5°	24.9	22.5
90°	15.8	15.8
92.5°	63.3	50.7
95°	220.6	182.5
97.5°	528.5	456.1
100°	761.5	675.2
102.5°	990.7	916.8
105°	1282.9	1243.1
107.5°	1474.2	1483.9
110°	1547.2	1588.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1553.7	1617.3
115°	1512.5	1600.7
117.5°	1425.2	1522.9
120°	1354.7	1449.7
122.5°	1286.2	1379.9
125°	1188.4	1274.7
127.5°	1100.4	1173.3
130°	1048.6	1115.9
132.5°	1001.6	1061.8
135°	937.2	989.1
137.5°	885.5	927.9
140°	850.0	889.7
142.5°	820.6	854.8
145°	776.6	802.4
147.5°	742.7	764.1
150°	721.5	738.8
152.5°	703.2	716.4
155°	682.3	691.0
157.5°	665.8	671.9
160°	655.9	659.4
162.5°	649.5	652.8
165°	640.1	643.6
167.5°	633.4	634.9
170°	631.6	631.6
172.5°	626.6	625.3
175°	623.6	623.6
177.5°	621.0	619.5
180°	619.5	619.5



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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	2.05	2.80	3.14	3.89	5.39	15.19	15.93	16.28	17.02	18.52
	3H	2.75	3.42	3.84	4.51	6.03	17.00	17.67	18.10	18.77	20.29
	4H	3.04	3.68	4.15	4.78	6.30	17.63	18.27	18.74	19.37	20.89
	6H	3.28	3.87	4.40	4.97	6.51	18.04	18.63	19.16	19.73	21.27
	8H	3.35	3.91	4.47	5.03	6.55	18.15	18.71	19.27	19.83	21.36
	12H	3.36	3.89	4.49	5.01	6.56	18.21	18.74	19.34	19.85	21.41
4H	2H	9.22	9.86	10.34	10.96	12.48	15.45	16.08	16.56	17.19	18.71
	3H	10.78	11.31	11.90	12.44	13.98	17.47	18.00	18.59	19.13	20.66
	4H	10.87	11.36	12.00	12.48	14.03	18.22	18.71	19.35	19.83	21.38
	6H	10.88	11.30	12.01	12.44	13.98	18.74	19.16	19.87	20.30	21.84
	8H	10.85	11.24	11.98	12.38	13.94	18.89	19.28	20.02	20.42	21.98
	12H	10.80	11.16	11.95	12.30	13.87	18.97	19.33	20.12	20.47	22.04
8H	4H	12.30	12.69	13.43	13.82	15.38	18.27	18.66	19.40	19.79	21.36
	6H	12.53	12.86	13.69	14.03	15.59	18.88	19.21	20.04	20.38	21.94
	8H	12.55	12.83	13.71	13.99	15.57	19.09	19.38	20.25	20.53	22.11
	12H	12.51	12.76	13.68	13.91	15.53	19.22	19.47	20.39	20.62	22.24
12H	4H	12.43	12.79	13.58	13.93	15.50	18.22	18.57	19.37	19.72	21.29
	6H	12.79	13.07	13.95	14.22	15.80	18.86	19.15	20.02	20.30	21.88
	8H	12.85	13.10	14.02	14.25	15.86	19.08	19.33	20.24	20.48	22.09