

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: P937914

Luminaire Tested: SQ4-FB-125U-075D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937914
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-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

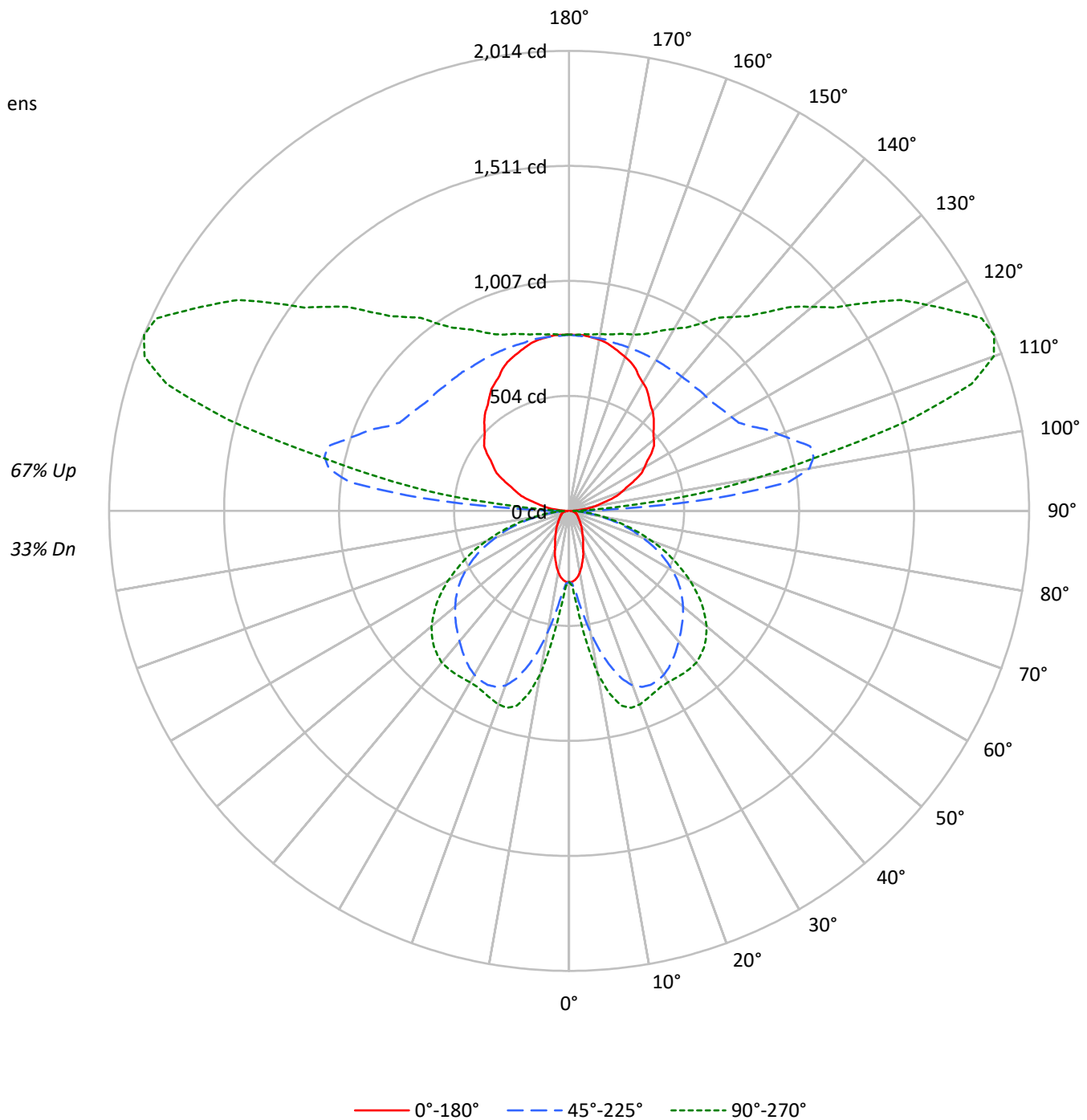
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7409.9 lumens
Efficiency: N/A
Efficacy: 133.3 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				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	33				33
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33	27				27
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27	22				22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23	18				18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	15				15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	13				13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14	11				11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	10				10
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	8				8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	7				7
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9	7				7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2886	2886	2886
5°	2816	3333	3879
10°	2552	4855	6431
15°	2166	6338	7765
20°	1761	7339	7914
25°	1467	7675	7753
30°	1236	7717	7738
35°	1091	7583	7938
40°	949	7410	8145
45°	858	7282	8177
50°	785	7165	8042
55°	750	6997	7685
60°	765	6680	7122
65°	792	6204	6349
70°	838	5399	5364
75°	918	4391	4186
80°	983	3034	2820
85°	828	1601	1444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8177 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	0.5
10°-20°	178.3	2.4
20°-30°	311.9	4.2
30°-40°	401.5	5.4
40°-50°	448.4	6.1
50°-60°	429.5	5.8
60°-70°	340.4	4.6
70°-80°	200.1	2.7
80°-90°	58.5	0.8
90°-100°	376.0	5.1
100°-110°	988.7	13.3
110°-120°	1025.1	13.8
120°-130°	822.3	11.1
130°-140°	645.2	8.7
140°-150°	495.2	6.7
150°-160°	356.6	4.8
160°-170°	218.2	2.9
170°-180°	73.7	1.0
0°-30°	530.4	7.2
0°-40°	931.9	12.6
0°-60°	1809.8	24.4
0°-90°	2408.8	32.5
90°-120°	2389.8	32.3
90°-150°	4352.5	58.7
90°-180°	5001.0	67.5
0°-180°	7409.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	303	325	366	414	429	28
15°	227	419	706	856	883	63
25°	145	475	841	878	879	67
35°	98	454	792	837	870	61
45°	67	362	700	802	838	52
55°	48	230	594	690	709	44
65°	38	122	441	496	503	38
75°	28	75	242	266	267	29
85°	10	23	60	66	67	11
90°	5	14	39	20	20	5
95°	50	195	648	334	227	55
105°	178	270	1093	1659	1548	189
115°	316	384	876	1746	1993	312
125°	440	493	796	1346	1587	391
135°	524	577	772	1086	1232	406
145°	608	647	762	927	999	381
155°	688	707	762	836	860	316
165°	742	752	762	792	802	209
175°	772	772	767	777	777	73
180°	772	772	772	772	772	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0
2.5°	311.0	311.0	313.0	314.0	316.0	317.0	319.0	321.0	327.0	328.0	330.0
5°	303.0	307.0	320.0	325.0	339.0	358.0	366.0	379.0	406.0	414.0	419.0
7.5°	291.0	300.0	332.0	340.0	375.0	425.0	446.0	474.0	517.0	538.0	555.0
10°	272.0	291.0	348.0	367.0	424.0	500.0	539.0	578.0	643.0	672.0	683.0
12.5°	251.0	282.0	365.0	391.0	473.0	584.0	631.0	674.0	748.0	787.0	793.0
15°	227.0	269.0	381.0	419.0	525.0	654.0	706.0	759.0	828.0	856.0	863.0
17.5°	206.0	259.0	396.0	436.0	565.0	717.0	770.0	814.0	870.0	889.0	894.0
20°	180.0	243.0	406.0	458.0	607.0	763.0	814.0	848.0	886.0	898.0	900.0
22.5°	161.0	226.0	412.0	466.0	635.0	791.0	834.0	861.0	887.0	891.0	892.0
25°	145.0	207.0	411.0	475.0	659.0	808.0	841.0	861.0	876.0	878.0	878.0
27.5°	130.0	186.0	407.0	477.0	677.0	812.0	838.0	852.0	859.0	863.0	863.0
30°	117.0	166.0	397.0	473.0	685.0	808.0	829.0	836.0	843.0	849.0	852.0
32.5°	107.0	147.0	382.0	465.0	686.0	798.0	813.0	817.0	827.0	841.0	846.0
35°	98.0	128.0	365.0	454.0	680.0	782.0	792.0	796.0	816.0	837.0	844.0
37.5°	89.0	114.0	343.0	435.0	671.0	763.0	770.0	777.0	808.0	833.0	841.0
40°	80.0	102.0	317.0	414.0	657.0	740.0	746.0	757.0	798.0	827.0	835.0
42.5°	73.0	92.0	289.0	392.0	639.0	714.0	723.0	739.0	786.0	817.0	826.0
45°	67.0	82.0	259.0	362.0	616.0	687.0	700.0	722.0	772.0	802.0	810.0
47.5°	61.0	75.0	228.0	331.0	591.0	660.0	677.0	702.0	753.0	782.0	789.0
50°	56.0	68.0	197.0	298.0	564.0	631.0	651.0	677.0	729.0	756.0	765.0
52.5°	52.0	62.0	168.0	265.0	533.0	601.0	624.0	651.0	700.0	726.0	732.0
55°	48.0	57.0	143.0	230.0	501.0	569.0	594.0	620.0	668.0	690.0	694.0
57.5°	46.0	53.0	122.0	197.0	467.0	533.0	561.0	585.0	630.0	647.0	651.0
60°	43.0	50.0	106.0	169.0	430.0	499.0	523.0	547.0	585.0	599.0	602.0
62.5°	40.0	48.0	94.0	142.0	392.0	459.0	483.0	505.0	537.0	547.0	551.0
65°	38.0	46.0	85.0	122.0	353.0	417.0	441.0	460.0	486.0	496.0	498.0
67.5°	36.0	44.0	78.0	105.0	314.0	375.0	393.0	411.0	431.0	441.0	442.0
70°	33.0	42.0	72.0	93.0	274.0	327.0	342.0	361.0	377.0	382.0	385.0
72.5°	31.0	39.0	68.0	84.0	233.0	281.0	295.0	306.0	320.0	325.0	325.0
75°	28.0	35.0	64.0	75.0	191.0	230.0	242.0	253.0	264.0	266.0	263.0
77.5°	25.0	31.0	55.0	63.0	149.0	182.0	192.0	198.0	207.0	209.0	210.0
80°	21.0	27.0	43.0	49.0	108.0	134.0	141.0	146.0	154.0	154.0	156.0
82.5°	16.0	21.0	31.0	35.0	73.0	92.0	98.0	101.0	106.0	106.0	106.0
85°	10.0	13.0	20.0	23.0	44.0	56.0	60.0	61.0	65.0	66.0	66.0
87.5°	5.0	7.0	13.0	14.0	23.0	29.0	29.0	31.0	31.0	30.0	29.0
90°	5.2	9.3	13.5	14.5	22.8	33.8	39.3	34.9	26.2	19.7	19.7
92.5°	20.7	55.9	91.1	99.9	140.5	194.6	221.6	194.2	139.5	98.4	94.5
95°	49.7	114.1	178.6	194.7	345.7	547.0	647.7	578.0	438.6	334.0	322.1
97.5°	85.9	142.7	199.6	213.8	465.6	801.3	969.2	925.1	837.0	770.9	748.4
100°	113.9	165.5	217.0	229.9	509.3	881.8	1068.1	1071.3	1077.8	1082.6	1055.7
102.5°	137.7	185.8	233.9	245.9	529.3	907.2	1096.1	1152.3	1264.6	1348.8	1325.8
105°	178.1	218.9	259.6	269.8	544.2	910.1	1093.0	1218.9	1470.6	1659.4	1647.0
107.5°	219.5	257.5	295.5	305.0	547.0	869.6	1030.9	1206.5	1557.6	1820.9	1823.9
110°	247.5	281.8	316.0	324.6	542.8	833.7	979.1	1175.4	1568.0	1862.4	1875.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	274.9	307.6	340.2	348.4	542.9	802.3	932.0	1132.9	1534.7	1836.0	1855.8
115°	316.3	346.5	376.7	384.2	548.0	766.3	875.5	1069.0	1456.1	1746.4	1773.8
117.5°	357.3	384.7	412.1	418.9	558.2	743.9	836.7	1011.3	1360.6	1622.6	1653.0
120°	381.1	406.9	432.7	439.1	566.5	736.3	821.2	980.8	1299.9	1539.3	1568.9
122.5°	404.4	430.4	456.4	462.9	578.4	732.3	809.3	953.0	1240.4	1455.9	1485.1
125°	440.1	463.8	487.5	493.4	594.4	729.0	796.3	918.4	1162.5	1345.6	1372.5
127.5°	469.1	493.0	516.9	522.9	610.4	727.1	785.4	890.2	1099.9	1257.1	1279.8
130°	484.6	510.4	536.2	542.6	622.2	728.3	781.3	874.6	1061.2	1201.2	1222.1
132.5°	500.7	526.5	552.3	558.7	631.7	729.0	777.7	861.2	1028.3	1153.6	1172.3
135°	524.5	548.0	571.4	577.3	642.0	728.3	771.5	841.5	981.4	1086.3	1102.5
137.5°	548.8	572.0	595.3	601.1	657.5	732.8	770.4	829.5	947.8	1036.5	1049.7
140°	569.0	590.4	611.8	617.2	667.1	733.6	766.8	817.9	920.1	996.7	1009.1
142.5°	584.5	604.3	624.1	629.1	675.0	736.2	766.8	811.7	901.4	968.7	979.3
145°	608.4	625.6	642.9	647.2	685.3	736.2	761.6	798.3	871.7	926.8	934.9
147.5°	632.2	649.0	665.8	670.0	700.5	741.2	761.6	790.5	848.3	891.6	898.3
150°	647.7	662.9	678.1	681.9	708.5	743.9	761.6	786.0	834.8	871.4	876.8
152.5°	663.8	675.3	686.8	689.7	713.7	745.6	761.6	782.4	824.1	855.3	859.4
155°	687.6	696.1	704.6	706.7	725.0	749.4	761.6	778.2	811.3	836.2	838.9
157.5°	705.2	713.5	721.7	723.8	736.4	753.2	761.6	774.5	800.3	819.6	821.5
160°	717.1	723.5	730.0	731.6	741.6	754.9	761.6	772.6	794.7	811.3	812.4
162.5°	729.0	733.8	738.7	739.9	747.1	756.8	761.6	770.9	789.6	803.6	804.6
165°	741.9	746.3	750.7	751.8	755.1	759.4	761.6	768.3	781.6	791.6	792.7
167.5°	753.9	755.9	758.0	758.5	761.3	765.0	766.8	771.2	779.9	786.5	787.0
170°	761.6	763.7	765.8	766.3	766.5	766.7	766.8	771.2	779.9	786.5	786.5
172.5°	765.8	766.2	766.7	766.8	766.8	766.8	766.8	770.2	777.1	782.3	781.9
175°	771.5	771.5	771.5	771.5	769.9	767.8	766.8	769.0	773.3	776.6	776.6
177.5°	771.5	771.5	771.5	771.5	770.3	768.6	767.8	769.5	773.0	775.6	775.1
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	311.0	311.0
2.5°	332.0	330.0
5°	427.0	429.0
7.5°	575.0	574.0
10°	715.0	724.0
12.5°	817.0	819.0
15°	879.0	883.0
17.5°	903.0	904.0
20°	904.0	902.0
22.5°	893.0	891.0
25°	880.0	879.0
27.5°	868.0	869.0
30°	863.0	866.0
32.5°	863.0	868.0
35°	865.0	870.0
37.5°	864.0	870.0
40°	860.0	867.0
42.5°	849.0	854.0
45°	832.0	838.0
47.5°	810.0	814.0
50°	782.0	786.0
52.5°	747.0	748.0
55°	705.0	709.0
57.5°	660.0	661.0
60°	610.0	613.0
62.5°	557.0	557.0
65°	501.0	503.0
67.5°	443.0	448.0
70°	384.0	385.0
72.5°	326.0	326.0
75°	266.0	267.0
77.5°	209.0	209.0
80°	155.0	156.0
82.5°	107.0	109.0
85°	67.0	67.0
87.5°	31.0	28.0
90°	19.7	19.7
92.5°	78.8	63.2
95°	274.7	227.3
97.5°	658.2	568.0
100°	948.3	840.8
102.5°	1233.7	1141.7
105°	1597.6	1548.1
107.5°	1835.9	1847.9
110°	1926.8	1978.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1934.9	2014.1
115°	1883.6	1993.4
117.5°	1774.8	1896.5
120°	1687.1	1805.4
122.5°	1601.7	1718.4
125°	1479.9	1587.4
127.5°	1370.4	1461.1
130°	1305.9	1389.7
132.5°	1247.3	1322.3
135°	1167.1	1231.7
137.5°	1102.7	1155.6
140°	1058.5	1108.0
142.5°	1021.9	1064.5
145°	967.1	999.3
147.5°	924.9	951.6
150°	898.5	920.1
152.5°	875.7	892.1
155°	849.7	860.5
157.5°	829.1	836.7
160°	816.8	821.2
162.5°	808.8	812.9
165°	797.1	801.5
167.5°	788.8	790.6
170°	786.5	786.5
172.5°	780.3	778.7
175°	776.6	776.6
177.5°	773.3	771.5
180°	771.5	771.5



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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	2.81	3.56	3.90	4.65	6.15	15.95	16.70	17.04	17.79	19.28
	3H	3.51	4.18	4.60	5.28	6.79	17.76	18.43	18.86	19.53	21.05
	4H	3.80	4.44	4.91	5.54	7.06	18.39	19.03	19.50	20.13	21.65
	6H	4.05	4.63	5.16	5.73	7.27	18.81	19.39	19.92	20.50	22.03
	8H	4.11	4.67	5.23	5.79	7.31	18.92	19.47	20.04	20.59	22.12
	12H	4.12	4.65	5.25	5.77	7.32	18.97	19.50	20.10	20.62	22.17
4H	2H	9.99	10.62	11.10	11.72	13.24	16.21	16.85	17.33	17.95	19.47
	3H	11.55	12.08	12.67	13.20	14.74	18.23	18.76	19.35	19.89	21.42
	4H	11.64	12.12	12.76	13.24	14.80	18.98	19.47	20.11	20.59	22.14
	6H	11.64	12.06	12.77	13.20	14.75	19.50	19.92	20.63	21.06	22.61
	8H	11.61	12.01	12.75	13.14	14.70	19.65	20.05	20.79	21.18	22.74
	12H	11.56	11.92	12.71	13.06	14.63	19.73	20.09	20.88	21.23	22.80
8H	4H	13.06	13.45	14.19	14.58	16.15	19.03	19.43	20.17	20.56	22.12
	6H	13.30	13.62	14.45	14.79	16.35	19.64	19.97	20.80	21.14	22.70
	8H	13.31	13.60	14.47	14.75	16.33	19.86	20.14	21.01	21.29	22.87
	12H	13.28	13.53	14.44	14.68	16.29	19.99	20.23	21.15	21.38	23.00
12H	4H	13.19	13.55	14.34	14.69	16.26	18.98	19.34	20.13	20.48	22.05
	6H	13.55	13.83	14.71	14.99	16.57	19.63	19.91	20.79	21.06	22.64
	8H	13.61	13.86	14.78	15.01	16.63	19.84	20.09	21.01	21.24	22.86