

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: P937934

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937934  
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-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

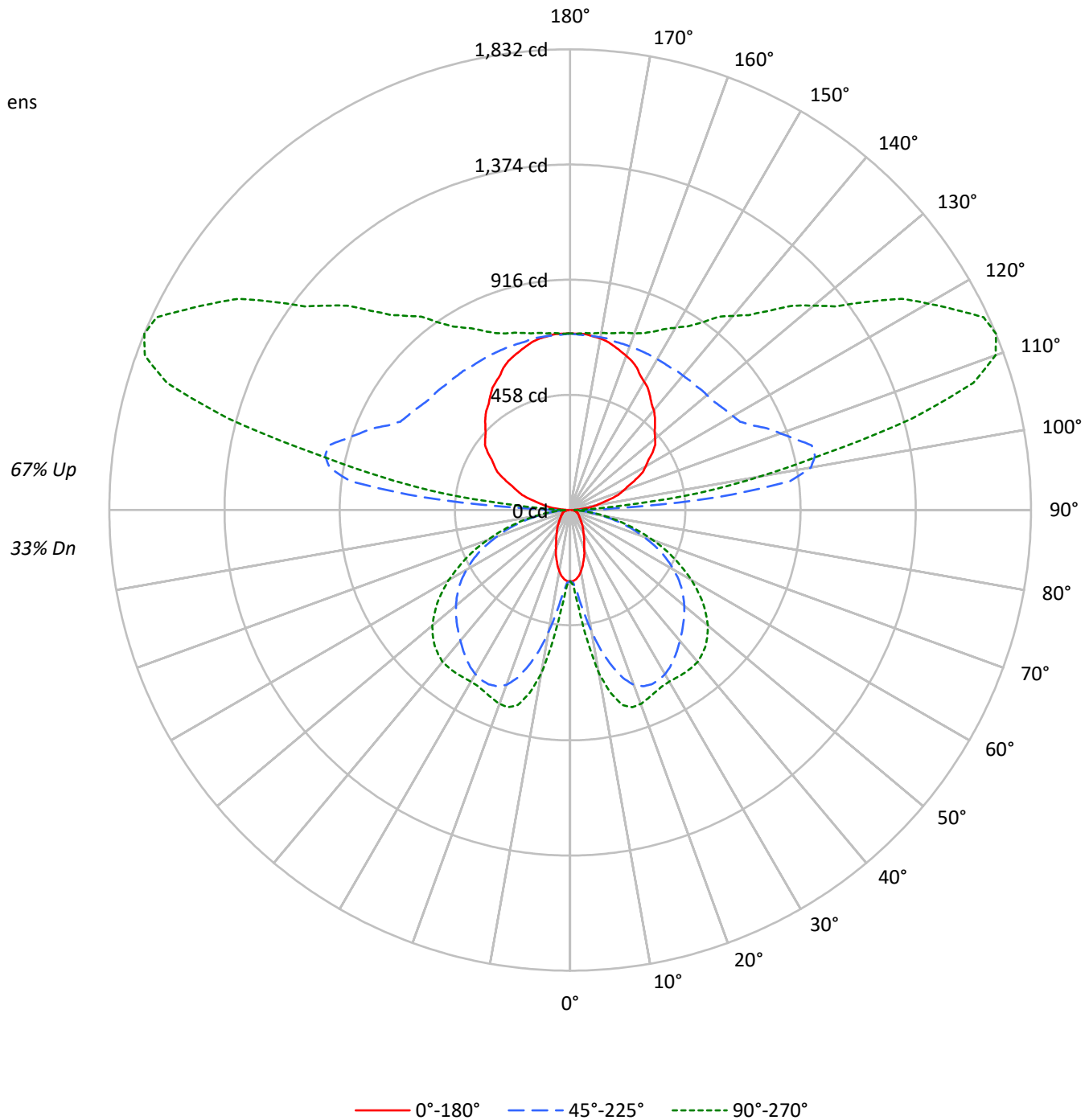
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6740.3 lumens  
Efficiency: N/A  
Efficacy: 121.2 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 (Ain): 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

TEST NUMBER: P937934  
CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P937934

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

**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°	2625	2625	2625
5°	2562	3032	3528
10°	2321	4416	5850
15°	1971	5765	7063
20°	1602	6676	7199
25°	1335	6981	7053
30°	1124	7020	7039
35°	992	6898	7221
40°	864	6741	7410
45°	780	6623	7439
50°	714	6518	7315
55°	683	6364	6991
60°	696	6076	6479
65°	721	5642	5775
70°	762	4912	4879
75°	836	3994	3808
80°	894	2761	2566
85°	754	1457	1312

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7439 cd/sqm



TEST NUMBER: P937934

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	0.5
10°-20°	162.2	2.4
20°-30°	283.7	4.2
30°-40°	365.2	5.4
40°-50°	407.9	6.1
50°-60°	390.7	5.8
60°-70°	309.6	4.6
70°-80°	182.1	2.7
80°-90°	53.2	0.8
90°-100°	342.1	5.1
100°-110°	899.3	13.3
110°-120°	932.5	13.8
120°-130°	748.0	11.1
130°-140°	586.9	8.7
140°-150°	450.5	6.7
150°-160°	324.4	4.8
160°-170°	198.5	2.9
170°-180°	67.1	1.0
0°-30°	482.5	7.2
0°-40°	847.7	12.6
0°-60°	1646.2	24.4
0°-90°	2191.2	32.5
90°-120°	2173.9	32.3
90°-150°	3959.2	58.7
90°-180°	4549.0	67.5
0°-180°	6740.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	276	296	333	377	390	25
15°	206	381	642	779	803	57
25°	132	432	765	799	800	61
35°	89	413	720	761	791	56
45°	61	329	637	730	762	47
55°	44	209	540	628	645	40
65°	35	111	401	451	458	34
75°	26	68	220	242	243	27
85°	9	21	55	60	61	10
90°	5	13	36	18	18	4
95°	45	177	589	304	207	50
105°	162	245	994	1510	1408	172
115°	288	350	796	1589	1813	284
125°	400	449	724	1224	1444	355
135°	477	525	702	988	1120	369
145°	553	589	693	843	909	347
155°	626	643	693	761	783	287
165°	675	684	693	720	729	190
175°	702	702	698	706	706	67
180°	702	702	702	702	702	



TEST NUMBER: P937934

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9
2.5°	282.9	282.9	284.7	285.6	287.4	288.4	290.2	292.0	297.5	298.4	300.2
5°	275.6	279.3	291.1	295.6	308.4	325.7	332.9	344.8	369.3	376.6	381.1
7.5°	264.7	272.9	302.0	309.3	341.1	386.6	405.7	431.2	470.3	489.4	504.8
10°	247.4	264.7	316.6	333.8	385.7	454.8	490.3	525.8	584.9	611.3	621.3
12.5°	228.3	256.5	332.0	355.7	430.3	531.2	574.0	613.1	680.4	715.9	721.3
15°	206.5	244.7	346.6	381.1	477.6	594.9	642.2	690.4	753.2	778.6	785.0
17.5°	187.4	235.6	360.2	396.6	513.9	652.2	700.4	740.4	791.4	808.7	813.2
20°	163.7	221.0	369.3	416.6	552.1	694.1	740.4	771.4	805.9	816.9	818.7
22.5°	146.5	205.6	374.8	423.9	577.6	719.5	758.6	783.2	806.8	810.5	811.4
25°	131.9	188.3	373.9	432.1	599.5	735.0	765.0	783.2	796.8	798.7	798.7
27.5°	118.3	169.2	370.2	433.9	615.8	738.6	762.3	775.0	781.4	785.0	785.0
30°	106.4	151.0	361.1	430.3	623.1	735.0	754.1	760.5	766.8	772.3	775.0
32.5°	97.3	133.7	347.5	423.0	624.0	725.9	739.5	743.2	752.3	765.0	769.6
35°	89.1	116.4	332.0	413.0	618.6	711.3	720.4	724.1	742.3	761.4	767.7
37.5°	81.0	103.7	312.0	395.7	610.4	694.1	700.4	706.8	735.0	757.7	765.0
40°	72.8	92.8	288.4	376.6	597.6	673.1	678.6	688.6	725.9	752.3	759.5
42.5°	66.4	83.7	262.9	356.6	581.3	649.5	657.7	672.2	715.0	743.2	751.4
45°	60.9	74.6	235.6	329.3	560.3	624.9	636.7	656.8	702.2	729.5	736.8
47.5°	55.5	68.2	207.4	301.1	537.6	600.4	615.8	638.6	685.0	711.3	717.7
50°	50.9	61.9	179.2	271.1	513.0	574.0	592.2	615.8	663.1	687.7	695.9
52.5°	47.3	56.4	152.8	241.1	484.8	546.7	567.6	592.2	636.7	660.4	665.9
55°	43.7	51.8	130.1	209.2	455.7	517.6	540.3	564.0	607.6	627.6	631.3
57.5°	41.8	48.2	111.0	179.2	424.8	484.8	510.3	532.1	573.1	588.5	592.2
60°	39.1	45.5	96.4	153.7	391.1	453.9	475.7	497.6	532.1	544.9	547.6
62.5°	36.4	43.7	85.5	129.2	356.6	417.5	439.4	459.4	488.5	497.6	501.2
65°	34.6	41.8	77.3	111.0	321.1	379.3	401.1	418.4	442.1	451.2	453.0
67.5°	32.7	40.0	71.0	95.5	285.6	341.1	357.5	373.9	392.1	401.1	402.1
70°	30.0	38.2	65.5	84.6	249.2	297.5	311.1	328.4	342.9	347.5	350.2
72.5°	28.2	35.5	61.9	76.4	211.9	255.6	268.3	278.3	291.1	295.6	295.6
75°	25.5	31.8	58.2	68.2	173.7	209.2	220.1	230.1	240.1	242.0	239.2
77.5°	22.7	28.2	50.0	57.3	135.5	165.6	174.7	180.1	188.3	190.1	191.0
80°	19.1	24.6	39.1	44.6	98.2	121.9	128.3	132.8	140.1	140.1	141.9
82.5°	14.6	19.1	28.2	31.8	66.4	83.7	89.1	91.9	96.4	96.4	96.4
85°	9.1	11.8	18.2	20.9	40.0	50.9	54.6	55.5	59.1	60.0	60.0
87.5°	4.5	6.4	11.8	12.7	20.9	26.4	26.4	28.2	28.2	27.3	26.4
90°	4.7	8.5	12.3	13.2	20.7	30.7	35.7	31.7	23.8	17.9	17.9
92.5°	18.8	50.8	82.9	90.9	127.8	177.0	201.6	176.7	126.9	89.5	86.0
95°	45.2	103.8	162.5	177.1	314.5	497.6	589.2	525.8	399.0	303.8	293.0
97.5°	78.1	129.8	181.6	194.5	423.5	728.9	881.6	841.5	761.4	701.2	680.8
100°	103.6	150.5	197.4	209.1	463.3	802.1	971.6	974.5	980.4	984.8	960.3
102.5°	125.3	169.0	212.8	223.7	481.5	825.2	997.1	1048.2	1150.3	1226.9	1206.0
105°	162.0	199.1	236.1	245.4	495.0	827.9	994.2	1108.8	1337.7	1509.5	1498.2
107.5°	199.7	234.2	268.8	277.4	497.6	791.0	937.7	1097.5	1416.9	1656.4	1659.1
110°	225.1	256.3	287.4	295.3	493.8	758.4	890.6	1069.2	1426.3	1694.1	1705.8



TEST NUMBER: P937934

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	250.1	279.8	309.5	316.9	493.8	729.8	847.8	1030.5	1396.0	1670.1	1688.1
115°	287.7	315.2	342.7	349.5	498.5	697.1	796.4	972.4	1324.5	1588.6	1613.5
117.5°	325.0	349.9	374.9	381.0	507.8	676.7	761.1	919.9	1237.7	1476.0	1503.6
120°	346.7	370.1	393.6	399.4	515.3	669.8	747.0	892.2	1182.4	1400.2	1427.1
122.5°	367.9	391.5	415.2	421.1	526.1	666.1	736.2	866.9	1128.3	1324.3	1350.9
125°	400.3	421.9	443.4	448.8	540.7	663.1	724.3	835.4	1057.5	1224.0	1248.5
127.5°	426.7	448.5	470.2	475.6	555.2	661.4	714.4	809.8	1000.5	1143.5	1164.2
130°	440.8	464.3	487.7	493.6	566.0	662.5	710.7	795.6	965.3	1092.7	1111.7
132.5°	455.5	478.9	502.4	508.2	574.6	663.1	707.4	783.4	935.4	1049.4	1066.4
135°	477.1	498.5	519.8	525.1	584.0	662.5	701.8	765.5	892.7	988.1	1002.9
137.5°	499.2	520.3	541.5	546.8	598.1	666.6	700.8	754.5	862.2	942.8	954.8
140°	517.6	537.0	556.5	561.4	606.8	667.3	697.5	744.0	837.0	906.6	917.9
142.5°	531.7	549.7	567.7	572.3	614.0	669.7	697.5	738.4	819.9	881.2	890.8
145°	553.4	569.1	584.8	588.7	623.4	669.7	692.8	726.2	792.9	843.1	850.4
147.5°	575.1	590.4	605.6	609.5	637.2	674.2	692.8	719.1	771.6	811.0	817.1
150°	589.2	603.0	616.8	620.3	644.5	676.7	692.8	715.0	759.4	792.7	797.6
152.5°	603.8	614.3	624.7	627.4	649.2	678.2	692.8	711.7	749.6	778.0	781.7
155°	625.5	633.2	640.9	642.8	659.5	681.7	692.8	707.9	738.0	760.6	763.1
157.5°	641.5	649.0	656.5	658.4	669.9	685.1	692.8	704.5	728.0	745.5	747.3
160°	652.3	658.1	664.0	665.5	674.6	686.7	692.8	702.8	722.9	738.0	739.0
162.5°	663.1	667.5	671.9	673.0	679.6	688.4	692.8	701.2	718.2	731.0	731.9
165°	674.9	678.9	682.9	683.9	686.9	690.8	692.8	698.9	711.0	720.1	721.1
167.5°	685.8	687.6	689.5	690.0	692.5	695.9	697.5	701.5	709.4	715.4	715.9
170°	692.8	694.7	696.6	697.1	697.2	697.4	697.5	701.5	709.4	715.4	715.4
172.5°	696.6	697.0	697.4	697.5	697.5	697.5	697.5	700.6	706.9	711.6	711.2
175°	701.8	701.8	701.8	701.8	700.3	698.4	697.5	699.5	703.4	706.4	706.4
177.5°	701.8	701.8	701.8	701.8	700.7	699.1	698.4	700.0	703.1	705.5	705.1
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P937934

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	282.9	282.9
2.5°	302.0	300.2
5°	388.4	390.2
7.5°	523.0	522.1
10°	650.4	658.6
12.5°	743.2	745.0
15°	799.6	803.2
17.5°	821.4	822.3
20°	822.3	820.5
22.5°	812.3	810.5
25°	800.5	799.6
27.5°	789.6	790.5
30°	785.0	787.7
32.5°	785.0	789.6
35°	786.8	791.4
37.5°	785.9	791.4
40°	782.3	788.7
42.5°	772.3	776.8
45°	756.8	762.3
47.5°	736.8	740.4
50°	711.3	715.0
52.5°	679.5	680.4
55°	641.3	644.9
57.5°	600.4	601.3
60°	554.9	557.6
62.5°	506.7	506.7
65°	455.7	457.5
67.5°	403.0	407.5
70°	349.3	350.2
72.5°	296.5	296.5
75°	242.0	242.9
77.5°	190.1	190.1
80°	141.0	141.9
82.5°	97.3	99.2
85°	60.9	60.9
87.5°	28.2	25.5
90°	17.9	17.9
92.5°	71.7	57.5
95°	249.9	206.8
97.5°	598.7	516.7
100°	862.6	764.8
102.5°	1122.2	1038.5
105°	1453.2	1408.2
107.5°	1670.0	1680.9
110°	1752.7	1799.5





TEST NUMBER: P937934

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	1760.1	1832.1
115°	1713.4	1813.3
117.5°	1614.4	1725.1
120°	1534.6	1642.3
122.5°	1457.0	1563.1
125°	1346.2	1444.0
127.5°	1246.6	1329.1
130°	1187.9	1264.1
132.5°	1134.6	1202.8
135°	1061.6	1120.4
137.5°	1003.1	1051.2
140°	962.9	1007.9
142.5°	929.6	968.3
145°	879.7	909.0
147.5°	841.3	865.6
150°	817.3	837.0
152.5°	796.6	811.5
155°	772.9	782.7
157.5°	754.2	761.1
160°	743.0	747.0
162.5°	735.7	739.4
165°	725.1	729.1
167.5°	717.5	719.2
170°	715.4	715.4
172.5°	709.8	708.3
175°	706.4	706.4
177.5°	703.4	701.8
180°	701.8	701.8



TEST NUMBER: P937934  
 CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-4000K

**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	2.48	3.23	3.57	4.32	5.82	15.62	16.37	16.71	17.46	18.96
	3H	3.18	3.85	4.28	4.95	6.46	17.44	18.10	18.53	19.20	20.72
	4H	3.47	4.11	4.58	5.21	6.73	18.07	18.70	19.17	19.80	21.32
	6H	3.72	4.30	4.83	5.41	6.94	18.48	19.06	19.59	20.17	21.70
	8H	3.78	4.34	4.90	5.46	6.99	18.59	19.15	19.71	20.26	21.79
	12H	3.80	4.33	4.92	5.44	6.99	18.65	19.17	19.77	20.29	21.84
4H	2H	9.66	10.29	10.77	11.39	12.91	15.88	16.52	17.00	17.62	19.14
	3H	11.22	11.75	12.34	12.87	14.41	17.90	18.43	19.02	19.56	21.09
	4H	11.31	11.80	12.43	12.91	14.47	18.65	19.14	19.78	20.26	21.81
	6H	11.31	11.73	12.44	12.87	14.42	19.17	19.59	20.31	20.73	22.28
	8H	11.28	11.68	12.42	12.81	14.37	19.32	19.72	20.46	20.85	22.41
	12H	11.24	11.59	12.38	12.73	14.30	19.40	19.76	20.55	20.90	22.47
8H	4H	12.73	13.12	13.86	14.25	15.82	18.70	19.10	19.84	20.23	21.79
	6H	12.97	13.29	14.12	14.47	16.02	19.32	19.64	20.47	20.81	22.37
	8H	12.98	13.27	14.14	14.42	16.00	19.53	19.81	20.69	20.96	22.54
	12H	12.95	13.20	14.11	14.35	15.96	19.66	19.91	20.82	21.06	22.67
12H	4H	12.87	13.22	14.01	14.36	15.93	18.65	19.01	19.80	20.15	21.72
	6H	13.22	13.51	14.38	14.66	16.24	19.30	19.58	20.46	20.73	22.31
	8H	13.28	13.53	14.45	14.68	16.30	19.51	19.76	20.68	20.91	22.53