

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: P938034

Luminaire Tested: SQ4-FB-125U-100D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938034
REPORT IS A COMBINATION OF REPORTS P933599 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-100D-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

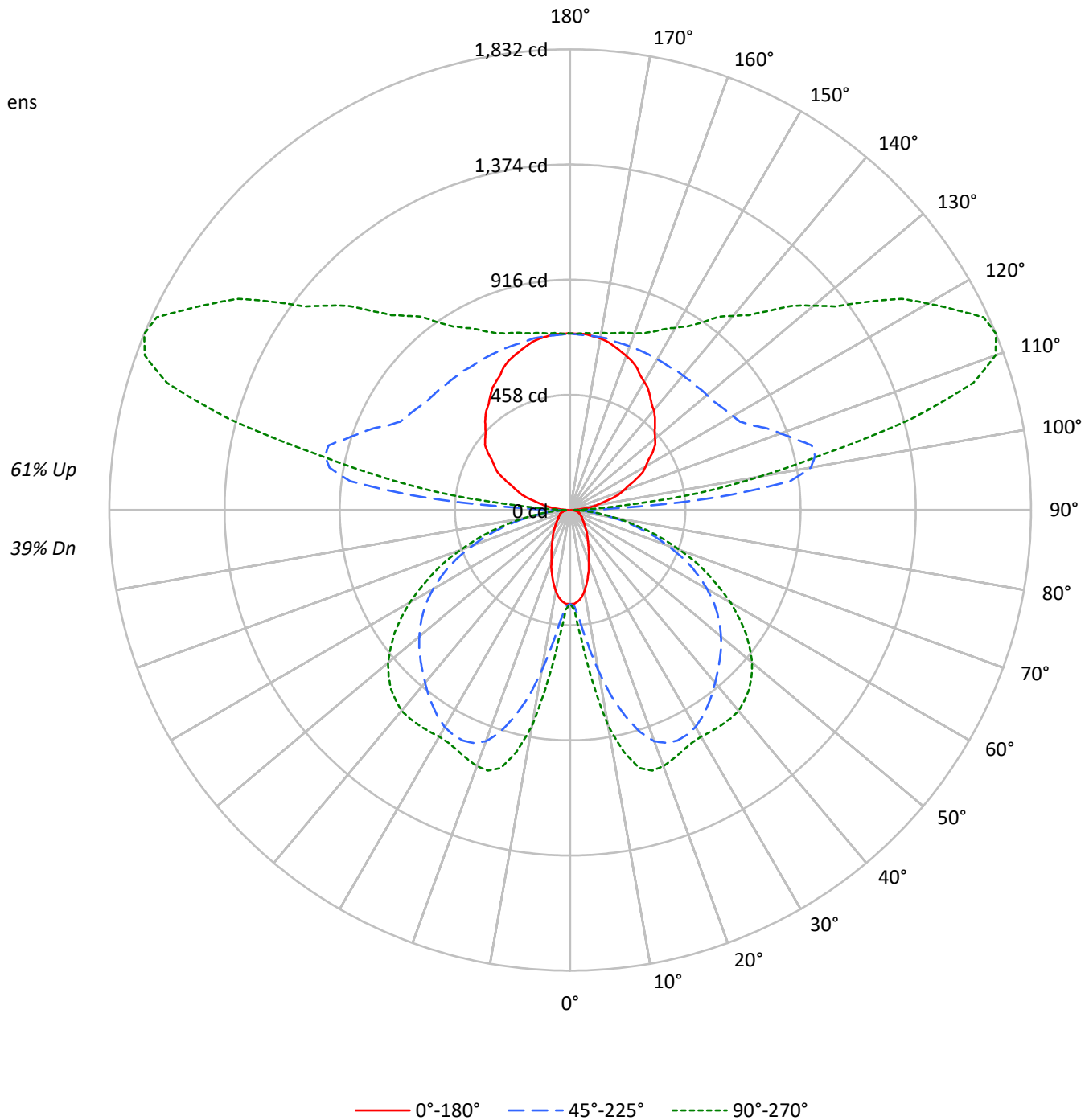
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7443.6 lumens
Efficiency: N/A
Efficacy: 115.6 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): 64.4
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39			39
1	95	90	86	83	86	82	79	76	67	65	62	53	51	50	40	39	38	32			32
2	86	78	72	67	78	71	66	61	58	54	51	46	43	41	35	33	31	26			26
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26	21			21
4	71	60	52	46	64	55	48	42	45	40	35	35	32	29	27	24	22	18			18
5	65	53	45	39	59	49	41	36	40	34	30	31	27	24	24	21	19	15			15
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	13			13
7	55	43	35	29	50	39	32	27	32	26	23	25	21	18	19	16	14	11			11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13	10			10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11	9			9
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10	8			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3469	3469	3469
5°	3385	4006	4663
10°	3067	5835	7729
15°	2603	7618	9333
20°	2117	8822	9511
25°	1764	9224	9319
30°	1485	9276	9301
35°	1311	9114	9542
40°	1140	8906	9790
45°	1031	8752	9828
50°	943	8612	9666
55°	901	8410	9236
60°	920	8030	8561
65°	952	7456	7630
70°	1008	6490	6446
75°	1105	5278	5031
80°	1179	3648	3390
85°	994	1924	1734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.6
10°-20°	214.3	2.9
20°-30°	374.8	5.0
30°-40°	482.5	6.5
40°-50°	539.0	7.2
50°-60°	516.2	6.9
60°-70°	409.1	5.5
70°-80°	240.6	3.2
80°-90°	69.5	0.9
90°-100°	342.1	4.6
100°-110°	899.3	12.1
110°-120°	932.5	12.5
120°-130°	748.0	10.0
130°-140°	586.9	7.9
140°-150°	450.5	6.1
150°-160°	324.4	4.4
160°-170°	198.5	2.7
170°-180°	67.1	0.9
0°-30°	637.5	8.6
0°-40°	1120.0	15.0
0°-60°	2175.2	29.2
0°-90°	2894.4	38.9
90°-120°	2173.9	29.2
90°-150°	3959.2	53.2
90°-180°	4549.0	61.1
0°-180°	7443.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	364	391	440	498	516	34
15°	273	504	849	1029	1061	76
25°	174	571	1011	1055	1056	80
35°	118	546	952	1006	1046	74
45°	80	435	841	964	1007	62
55°	58	276	714	829	852	53
65°	46	147	530	596	604	45
75°	34	90	291	320	321	35
85°	12	28	72	79	80	13
90°	5	13	36	18	18	5
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	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8
2.5°	373.8	373.8	376.2	377.4	379.8	381.0	383.4	385.8	393.1	394.2	396.6
5°	364.2	369.0	384.6	390.6	407.4	430.3	439.9	455.5	488.0	497.6	503.6
7.5°	349.8	360.6	399.1	408.7	450.7	510.9	536.0	569.7	621.4	646.7	667.0
10°	326.9	349.8	418.3	441.1	509.6	601.0	647.8	694.7	772.8	807.7	820.9
12.5°	301.7	338.9	438.7	469.9	568.5	702.0	758.5	810.1	899.1	945.9	953.1
15°	272.8	323.3	457.9	503.6	631.0	786.1	848.6	912.3	995.2	1028.9	1037.3
17.5°	247.6	311.3	475.9	524.0	679.1	861.8	925.5	978.4	1045.7	1068.6	1074.6
20°	216.3	292.1	488.0	550.5	729.6	917.1	978.4	1019.2	1064.9	1079.4	1081.7
22.5°	193.5	271.6	495.2	560.1	763.2	950.8	1002.4	1034.9	1066.1	1070.9	1072.1
25°	174.3	248.8	494.0	570.9	792.1	971.1	1010.8	1034.9	1052.9	1055.3	1055.3
27.5°	156.3	223.6	489.2	573.3	813.7	975.9	1007.2	1024.1	1032.4	1037.3	1037.3
30°	140.6	199.5	477.2	568.5	823.3	971.1	996.4	1004.8	1013.2	1020.4	1024.1
32.5°	128.6	176.7	459.2	558.9	824.5	959.1	977.1	982.0	994.0	1010.8	1016.9
35°	117.8	153.8	438.7	545.7	817.3	939.9	951.9	956.8	980.8	1006.1	1014.4
37.5°	107.0	137.0	412.2	522.9	806.5	917.1	925.5	933.9	971.1	1001.2	1010.8
40°	96.1	122.6	381.0	497.6	789.7	889.4	896.6	909.9	959.1	994.0	1003.6
42.5°	87.8	110.6	347.4	471.2	768.0	858.2	869.0	888.3	944.7	982.0	992.8
45°	80.5	98.5	311.3	435.1	740.4	825.8	841.3	867.8	927.9	963.9	973.6
47.5°	73.3	90.1	274.1	397.9	710.3	793.3	813.7	843.8	905.1	939.9	948.3
50°	67.3	81.8	236.8	358.2	677.9	758.5	782.5	813.7	876.3	908.6	919.5
52.5°	62.5	74.5	201.9	318.6	640.7	722.3	750.0	782.5	841.3	872.6	879.8
55°	57.7	68.5	171.9	276.4	602.2	683.9	714.0	745.2	802.9	829.3	834.1
57.5°	55.3	63.7	146.6	236.8	561.3	640.7	674.3	703.1	757.2	777.6	782.5
60°	51.7	60.1	127.4	203.1	516.9	599.7	628.7	657.5	703.1	720.0	723.5
62.5°	48.1	57.7	113.0	170.6	471.2	551.7	580.5	607.0	645.5	657.5	662.3
65°	45.7	55.3	102.2	146.6	424.3	501.2	530.0	552.9	584.2	596.2	598.5
67.5°	43.3	52.8	93.8	126.2	377.4	450.7	472.4	494.0	518.0	530.0	531.2
70°	39.7	50.5	86.5	111.8	329.3	393.1	411.1	433.9	453.1	459.2	462.7
72.5°	37.3	46.8	81.8	101.0	280.1	337.7	354.6	367.8	384.6	390.6	390.6
75°	33.7	42.0	77.0	90.1	229.6	276.4	290.9	304.1	317.3	319.7	316.1
77.5°	30.0	37.3	66.1	75.7	179.1	218.8	230.8	238.0	248.8	251.2	252.4
80°	25.2	32.5	51.7	58.9	129.8	161.1	169.5	175.5	185.1	185.1	187.5
82.5°	19.2	25.2	37.3	42.0	87.8	110.6	117.8	121.4	127.4	127.4	127.4
85°	12.0	15.6	24.0	27.7	52.8	67.3	72.1	73.3	78.1	79.3	79.3
87.5°	6.0	8.4	15.6	16.8	27.7	34.8	34.8	37.3	37.3	36.0	34.8
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



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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



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	373.8	373.8
2.5°	399.1	396.6
5°	513.2	515.7
7.5°	691.1	689.9
10°	859.4	870.2
12.5°	982.0	984.4
15°	1056.5	1061.3
17.5°	1085.4	1086.6
20°	1086.6	1084.1
22.5°	1073.4	1070.9
25°	1057.7	1056.5
27.5°	1043.3	1044.4
30°	1037.3	1040.9
32.5°	1037.3	1043.3
35°	1039.7	1045.7
37.5°	1038.4	1045.7
40°	1033.7	1042.1
42.5°	1020.4	1026.4
45°	1000.1	1007.2
47.5°	973.6	978.4
50°	939.9	944.7
52.5°	897.8	899.1
55°	847.3	852.1
57.5°	793.3	794.5
60°	733.2	736.8
62.5°	669.5	669.5
65°	602.2	604.5
67.5°	532.5	538.5
70°	461.5	462.7
72.5°	391.9	391.9
75°	319.7	320.9
77.5°	251.2	251.2
80°	186.3	187.5
82.5°	128.6	131.0
85°	80.5	80.5
87.5°	37.3	33.7
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



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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



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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	4.20	5.00	5.24	6.05	7.47	17.34	18.14	18.38	19.19	20.61
	3H	4.90	5.62	5.95	6.68	8.11	19.16	19.88	20.21	20.93	22.37
	4H	5.20	5.88	6.26	6.94	8.38	19.79	20.47	20.85	21.53	22.98
	6H	5.44	6.07	6.52	7.13	8.59	20.21	20.83	21.28	21.90	23.35
	8H	5.51	6.11	6.59	7.19	8.64	20.32	20.92	21.39	22.00	23.45
	12H	5.53	6.09	6.61	7.17	8.64	20.38	20.94	21.46	22.02	23.50
4H	2H	11.38	12.06	12.45	13.12	14.57	17.61	18.29	18.68	19.35	20.79
	3H	12.95	13.52	14.02	14.61	16.06	19.63	20.20	20.71	21.29	22.75
	4H	13.04	13.56	14.12	14.64	16.12	20.39	20.91	21.47	21.99	23.47
	6H	13.05	13.50	14.14	14.60	16.07	20.91	21.36	22.00	22.46	23.93
	8H	13.02	13.44	14.11	14.54	16.03	21.06	21.48	22.15	22.58	24.07
	12H	12.98	13.36	14.09	14.46	15.96	21.15	21.53	22.25	22.63	24.13
8H	4H	14.47	14.89	15.56	15.98	17.47	20.44	20.86	21.53	21.96	23.45
	6H	14.71	15.06	15.82	16.19	17.68	21.06	21.40	22.17	22.54	24.03
	8H	14.73	15.03	15.85	16.15	17.65	21.27	21.57	22.39	22.69	24.20
	12H	14.69	14.96	15.82	16.07	17.62	21.40	21.67	22.53	22.78	24.33
12H	4H	14.61	14.99	15.72	16.09	17.59	20.39	20.77	21.50	21.88	23.37
	6H	14.96	15.27	16.08	16.39	17.89	21.04	21.34	22.16	22.46	23.97
	8H	15.03	15.30	16.15	16.41	17.95	21.26	21.53	22.38	22.64	24.18