

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: P936368

Luminaire Tested: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936368
REPORT IS A COMBINATION OF REPORTS P933454 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

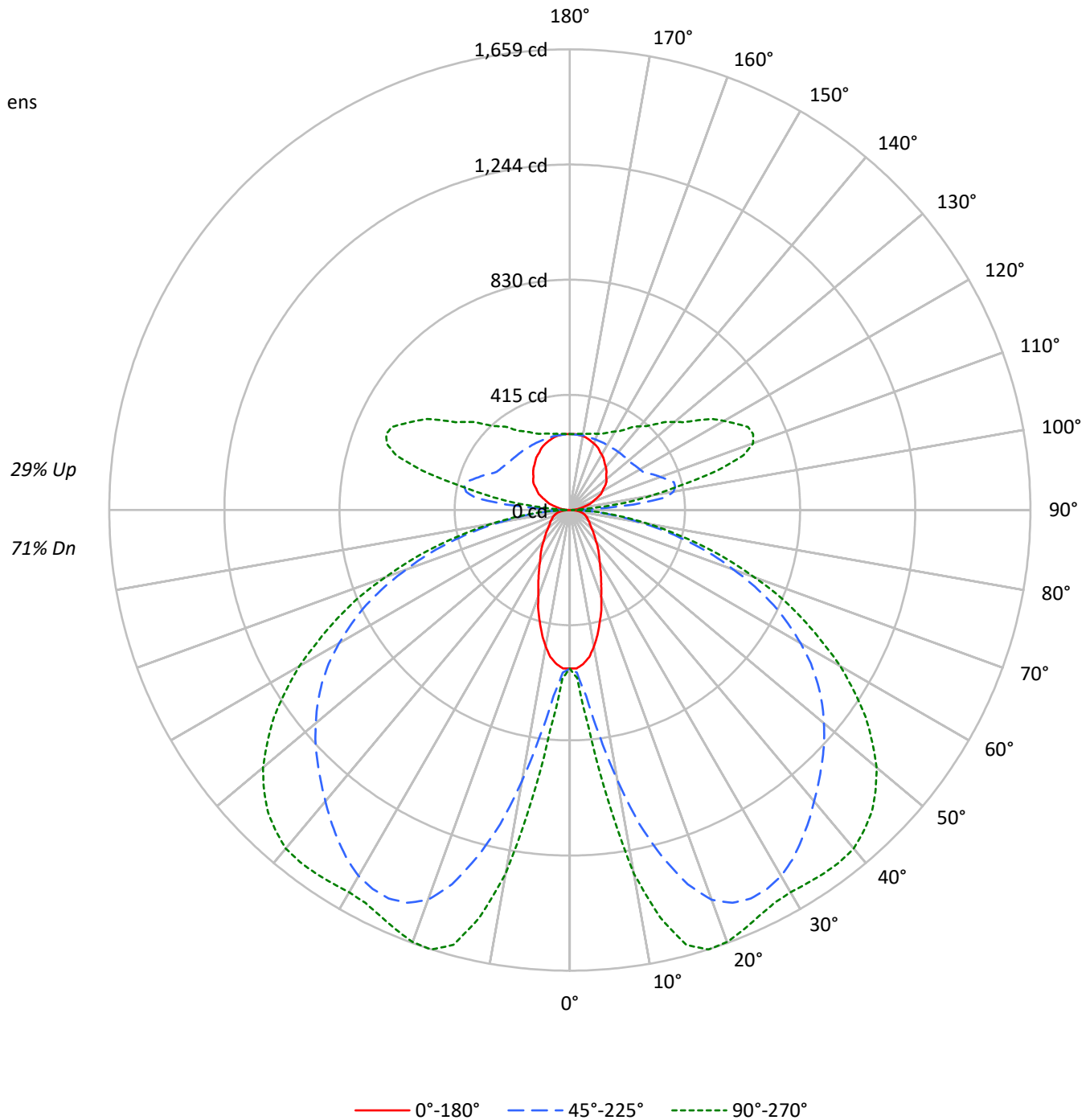
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6192.6 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	62	62	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	51	51	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	43	43	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	36	36	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	31	31	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	27	27	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	23	23	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	21	21	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	18	18	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2648	2648	2648
5°	2587	3061	3560
10°	2347	4462	5902
15°	1994	5830	7126
20°	1624	6756	7263
25°	1354	7070	7115
30°	1142	7114	7102
35°	1010	6996	7286
40°	880	6843	7475
45°	797	6730	7504
50°	731	6629	7380
55°	700	6481	7053
60°	717	6196	6537
65°	745	5763	5827
70°	795	5026	4922
75°	880	4098	3841
80°	961	2842	2588
85°	857	1507	1325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7504 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.2
10°-20°	327.3	5.3
20°-30°	572.4	9.2
30°-40°	736.9	11.9
40°-50°	823.1	13.3
50°-60°	788.3	12.7
60°-70°	624.7	10.1
70°-80°	367.3	5.9
80°-90°	103.1	1.7
90°-100°	133.5	2.2
100°-110°	351.0	5.7
110°-120°	364.0	5.9
120°-130°	292.0	4.7
130°-140°	229.1	3.7
140°-150°	175.8	2.8
150°-160°	126.6	2.0
160°-170°	77.5	1.3
170°-180°	26.2	0.4
0°-30°	973.5	15.7
0°-40°	1710.4	27.6
0°-60°	3321.8	53.6
0°-90°	4417.0	71.3
90°-120°	848.5	13.7
90°-150°	1545.4	25.0
90°-180°	1776.0	28.7
0°-180°	6192.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	556	596	672	760	787	51
15°	417	769	1296	1571	1621	116
25°	266	872	1544	1612	1613	123
35°	180	833	1454	1536	1597	112
45°	123	664	1285	1472	1538	95
55°	88	422	1090	1266	1301	80
65°	70	224	809	910	923	69
75°	51	138	444	488	490	54
85°	18	42	110	121	123	19
90°	2	5	14	7	7	3
95°	18	69	230	119	81	20
105°	63	96	388	589	550	67
115°	112	136	311	620	708	111
125°	156	175	283	478	564	139
135°	186	205	274	386	437	144
145°	216	230	270	329	355	135
155°	244	251	270	297	306	112
165°	264	267	270	281	285	74
175°	274	274	272	276	276	26
180°	274	274	274	274	274	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
2.5°	570.8	570.8	574.5	576.3	580.0	581.8	585.5	589.2	600.2	602.0	605.7
5°	556.1	563.5	587.3	596.5	622.2	657.1	671.8	695.6	745.2	759.9	769.0
7.5°	534.1	550.6	609.3	624.0	688.3	780.0	818.6	870.0	948.9	987.4	1018.6
10°	499.2	534.1	638.7	673.6	778.2	917.7	989.3	1060.9	1180.2	1233.5	1253.7
12.5°	460.7	517.6	669.9	717.6	868.1	1072.0	1158.2	1237.1	1373.0	1444.5	1455.6
15°	416.6	493.7	699.3	769.0	963.6	1200.4	1295.9	1393.2	1519.8	1571.2	1584.0
17.5°	378.1	475.4	726.8	800.2	1037.0	1316.1	1413.3	1494.1	1596.9	1631.8	1640.9
20°	330.4	446.0	745.2	840.6	1114.2	1400.5	1494.1	1556.5	1626.2	1648.3	1651.9
22.5°	295.5	414.8	756.2	855.3	1165.6	1451.9	1530.8	1580.4	1628.1	1635.4	1637.3
25°	266.1	379.9	754.3	871.8	1209.6	1483.1	1543.7	1580.4	1607.9	1611.6	1611.6
27.5°	238.6	341.4	747.0	875.5	1242.7	1490.4	1538.1	1563.8	1576.7	1584.0	1584.0
30°	214.7	304.7	728.6	868.1	1257.3	1483.1	1521.6	1534.5	1547.3	1558.3	1563.8
32.5°	196.4	269.8	701.1	853.5	1259.2	1464.7	1492.3	1499.6	1518.0	1543.7	1552.8
35°	179.9	234.9	669.9	833.3	1248.2	1435.4	1453.7	1461.1	1497.8	1536.3	1549.2
37.5°	163.3	209.2	629.5	798.4	1231.6	1400.5	1413.3	1426.2	1483.1	1529.0	1543.7
40°	146.8	187.2	581.8	759.9	1205.9	1358.3	1369.3	1389.5	1464.7	1518.0	1532.6
42.5°	134.0	168.9	530.4	719.5	1172.9	1310.6	1327.1	1356.4	1442.7	1499.6	1516.1
45°	123.0	150.5	475.4	664.4	1130.7	1261.0	1284.9	1325.2	1417.0	1472.1	1486.8
47.5°	112.0	137.7	418.5	607.5	1084.8	1211.4	1242.7	1288.5	1382.1	1435.4	1448.2
50°	102.8	124.8	361.6	546.9	1035.2	1158.2	1194.9	1242.7	1338.1	1387.6	1404.2
52.5°	95.4	113.8	308.3	486.4	978.3	1103.2	1145.4	1194.9	1284.9	1332.6	1343.6
55°	88.1	104.6	262.5	422.1	919.5	1044.4	1090.3	1138.0	1226.1	1266.5	1273.9
57.5°	84.4	97.3	223.9	361.6	857.1	978.3	1029.7	1073.8	1156.4	1187.6	1194.9
60°	78.9	91.8	194.6	310.2	789.2	915.9	959.9	1004.0	1073.8	1099.5	1105.0
62.5°	73.4	88.1	172.5	260.6	719.5	842.4	886.5	926.9	985.6	1004.0	1011.3
65°	69.7	84.4	156.0	223.9	647.9	765.4	809.4	844.3	892.0	910.4	914.0
67.5°	66.1	80.8	143.2	192.7	576.3	688.3	721.3	754.3	791.1	809.4	811.2
70°	60.6	77.1	132.1	170.7	502.9	600.2	627.7	662.6	691.9	701.1	706.6
72.5°	56.9	71.6	124.8	154.2	427.6	515.7	541.4	561.6	587.3	596.5	596.5
75°	51.4	64.2	117.5	137.7	350.6	422.1	444.2	464.4	484.5	488.2	482.7
77.5°	45.9	56.9	100.9	115.6	273.5	334.0	352.4	363.4	379.9	383.6	385.4
80°	38.5	49.6	78.9	89.9	198.2	245.9	258.8	268.0	282.7	282.7	286.3
82.5°	29.4	38.5	56.9	64.2	134.0	168.9	179.9	185.4	194.6	194.6	194.6
85°	18.4	23.9	36.7	42.2	80.8	102.8	110.1	112.0	119.3	121.1	121.1
87.5°	9.2	12.8	23.9	25.7	42.2	53.2	53.2	56.9	56.9	55.1	53.2
90°	1.8	3.3	4.8	5.1	8.1	12.0	13.9	12.4	9.3	7.0	7.0
92.5°	7.3	19.8	32.4	35.5	49.9	69.1	78.6	68.9	49.6	35.0	33.6
95°	17.6	40.5	63.4	69.1	122.7	194.2	230.0	205.2	155.7	118.6	114.3
97.5°	30.6	50.7	70.8	75.9	165.3	284.5	344.1	328.5	297.2	273.7	265.8
100°	40.5	58.7	77.0	81.6	180.8	313.0	379.2	380.4	382.7	384.4	374.9
102.5°	48.9	66.0	83.1	87.3	187.9	322.1	389.2	409.1	448.9	478.9	470.7
105°	63.2	77.7	92.2	95.8	193.3	323.1	388.1	432.8	522.2	589.2	584.8
107.5°	77.9	91.4	104.9	108.3	194.2	308.7	366.0	428.3	553.0	646.5	647.6
110°	87.9	100.0	112.2	115.3	192.7	296.0	347.6	417.3	556.7	661.2	665.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.6	109.2	120.8	123.7	192.8	284.9	330.9	402.2	544.8	651.8	658.9
115°	112.3	123.0	133.7	136.4	194.6	272.1	310.8	379.6	517.0	620.1	629.8
117.5°	126.8	136.6	146.3	148.8	198.2	264.1	297.1	359.1	483.1	576.1	587.0
120°	135.3	144.4	153.6	155.9	201.2	261.5	291.6	348.2	461.5	546.5	556.9
122.5°	143.5	152.8	162.1	164.4	205.4	260.0	287.3	338.4	440.4	516.9	527.3
125°	156.3	164.7	173.1	175.2	211.1	258.9	282.7	326.1	412.8	477.8	487.3
127.5°	166.6	175.0	183.5	185.6	216.8	258.1	278.9	316.1	390.6	446.4	454.4
130°	172.1	181.2	190.3	192.6	220.9	258.6	277.4	310.5	376.8	426.5	433.9
132.5°	177.8	186.9	196.0	198.3	224.3	258.9	276.1	305.8	365.1	409.6	416.3
135°	186.2	194.6	202.9	205.0	228.0	258.6	273.9	298.8	348.4	385.7	391.4
137.5°	194.8	203.1	211.3	213.5	233.5	260.2	273.6	294.6	336.5	368.0	372.7
140°	202.0	209.6	217.2	219.1	236.9	260.4	272.3	290.5	326.7	353.9	358.3
142.5°	207.6	214.6	221.6	223.4	239.7	261.5	272.3	288.2	320.1	344.0	347.7
145°	216.0	222.2	228.2	229.8	243.4	261.5	270.4	283.5	309.5	329.1	331.9
147.5°	224.5	230.4	236.4	237.9	248.7	263.2	270.4	280.7	301.2	316.5	318.9
150°	230.0	235.4	240.7	242.1	251.5	264.1	270.4	279.1	296.4	309.4	311.3
152.5°	235.7	239.7	243.8	244.8	253.4	264.8	270.4	277.8	292.6	303.7	305.1
155°	244.1	247.1	250.2	250.9	257.4	266.1	270.4	276.3	288.1	296.9	297.8
157.5°	250.3	253.3	256.2	257.0	261.5	267.4	270.4	275.0	284.1	291.0	291.6
160°	254.6	256.9	259.2	259.7	263.3	268.1	270.4	274.4	282.2	288.1	288.4
162.5°	258.8	260.5	262.2	262.6	265.2	268.7	270.4	273.7	280.4	285.3	285.7
165°	263.5	265.0	266.6	267.0	268.2	269.7	270.4	272.8	277.5	281.1	281.5
167.5°	267.7	268.4	269.2	269.3	270.4	271.6	272.3	273.8	277.0	279.3	279.4
170°	270.4	271.2	271.9	272.1	272.2	272.3	272.3	273.8	277.0	279.3	279.3
172.5°	271.9	272.1	272.3	272.3	272.3	272.3	272.3	273.5	276.0	277.8	277.6
175°	273.9	273.9	273.9	273.9	273.4	272.6	272.3	273.0	274.6	275.8	275.8
177.5°	273.9	273.9	273.9	273.9	273.5	272.9	272.6	273.3	274.5	275.4	275.2
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	570.8	570.8
2.5°	609.3	605.7
5°	783.7	787.4
7.5°	1055.4	1053.6
10°	1312.4	1328.9
12.5°	1499.6	1503.3
15°	1613.4	1620.7
17.5°	1657.4	1659.3
20°	1659.3	1655.6
22.5°	1639.1	1635.4
25°	1615.2	1613.4
27.5°	1593.2	1595.0
30°	1584.0	1589.5
32.5°	1584.0	1593.2
35°	1587.7	1596.9
37.5°	1585.9	1596.9
40°	1578.5	1591.4
42.5°	1558.3	1567.5
45°	1527.1	1538.1
47.5°	1486.8	1494.1
50°	1435.4	1442.7
52.5°	1371.1	1373.0
55°	1294.0	1301.4
57.5°	1211.4	1213.3
60°	1119.7	1125.2
62.5°	1022.3	1022.3
65°	919.5	923.2
67.5°	813.1	822.3
70°	704.8	706.6
72.5°	598.3	598.3
75°	488.2	490.0
77.5°	383.6	383.6
80°	284.5	286.3
82.5°	196.4	200.1
85°	123.0	123.0
87.5°	56.9	51.4
90°	7.0	7.0
92.5°	28.0	22.4
95°	97.6	80.7
97.5°	233.6	201.6
100°	336.7	298.5
102.5°	438.0	405.3
105°	567.2	549.6
107.5°	651.8	656.1
110°	684.0	702.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	687.0	715.1
115°	668.8	707.7
117.5°	630.2	673.4
120°	599.0	641.0
122.5°	568.7	610.1
125°	525.5	563.6
127.5°	486.6	518.8
130°	463.6	493.4
132.5°	442.9	469.5
135°	414.3	437.3
137.5°	391.5	410.3
140°	375.8	393.4
142.5°	362.9	377.9
145°	343.4	354.8
147.5°	328.4	337.9
150°	319.0	326.7
152.5°	310.9	316.7
155°	301.6	305.5
157.5°	294.4	297.1
160°	290.0	291.6
162.5°	287.1	288.6
165°	283.0	284.6
167.5°	280.1	280.7
170°	279.3	279.3
172.5°	277.1	276.5
175°	275.8	275.8
177.5°	274.6	273.9
180°	273.9	273.9



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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	6.13	7.28	6.87	8.05	8.98	19.31	20.46	20.05	21.23	22.16
	3H	6.86	7.90	7.61	8.68	9.63	21.17	22.21	21.92	22.99	23.95
	4H	7.17	8.15	7.94	8.94	9.91	21.83	22.81	22.60	23.60	24.57
	6H	7.43	8.34	8.22	9.14	10.12	22.27	23.18	23.06	23.98	24.96
	8H	7.51	8.38	8.30	9.20	10.18	22.40	23.27	23.20	24.09	25.07
	12H	7.54	8.37	8.34	9.18	10.19	22.48	23.31	23.28	24.12	25.13
4H	2H	13.38	14.36	14.15	15.15	16.12	19.62	20.60	20.39	21.39	22.36
	3H	14.97	15.80	15.76	16.62	17.61	21.69	22.52	22.48	23.34	24.32
	4H	15.08	15.83	15.88	16.66	17.67	22.47	23.22	23.27	24.04	25.06
	6H	15.11	15.76	15.93	16.61	17.63	23.03	23.68	23.85	24.53	25.54
	8H	15.09	15.71	15.92	16.55	17.58	23.20	23.81	24.02	24.65	25.68
	12H	15.06	15.62	15.91	16.48	17.52	23.30	23.86	24.15	24.72	25.76
8H	4H	16.55	17.16	17.38	18.01	19.04	22.55	23.17	23.38	24.01	25.04
	6H	16.81	17.32	17.66	18.20	19.23	23.20	23.71	24.05	24.59	25.62
	8H	16.83	17.28	17.69	18.16	19.21	23.42	23.87	24.29	24.75	25.80
	12H	16.81	17.21	17.68	18.08	19.18	23.58	23.98	24.45	24.85	25.95
12H	4H	16.71	17.26	17.55	18.12	19.16	22.52	23.07	23.37	23.94	24.98
	6H	17.07	17.52	17.93	18.40	19.45	23.18	23.64	24.05	24.52	25.57
	8H	17.15	17.55	18.02	18.42	19.53	23.43	23.83	24.30	24.70	25.80