

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: P936278

Luminaire Tested: SQ4-FB-025U-050D-B2750-1D-UNV-W2A-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936278
REPORT IS A COMBINATION OF REPORTS P933429 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-B2750-1D-UNV-W2A-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

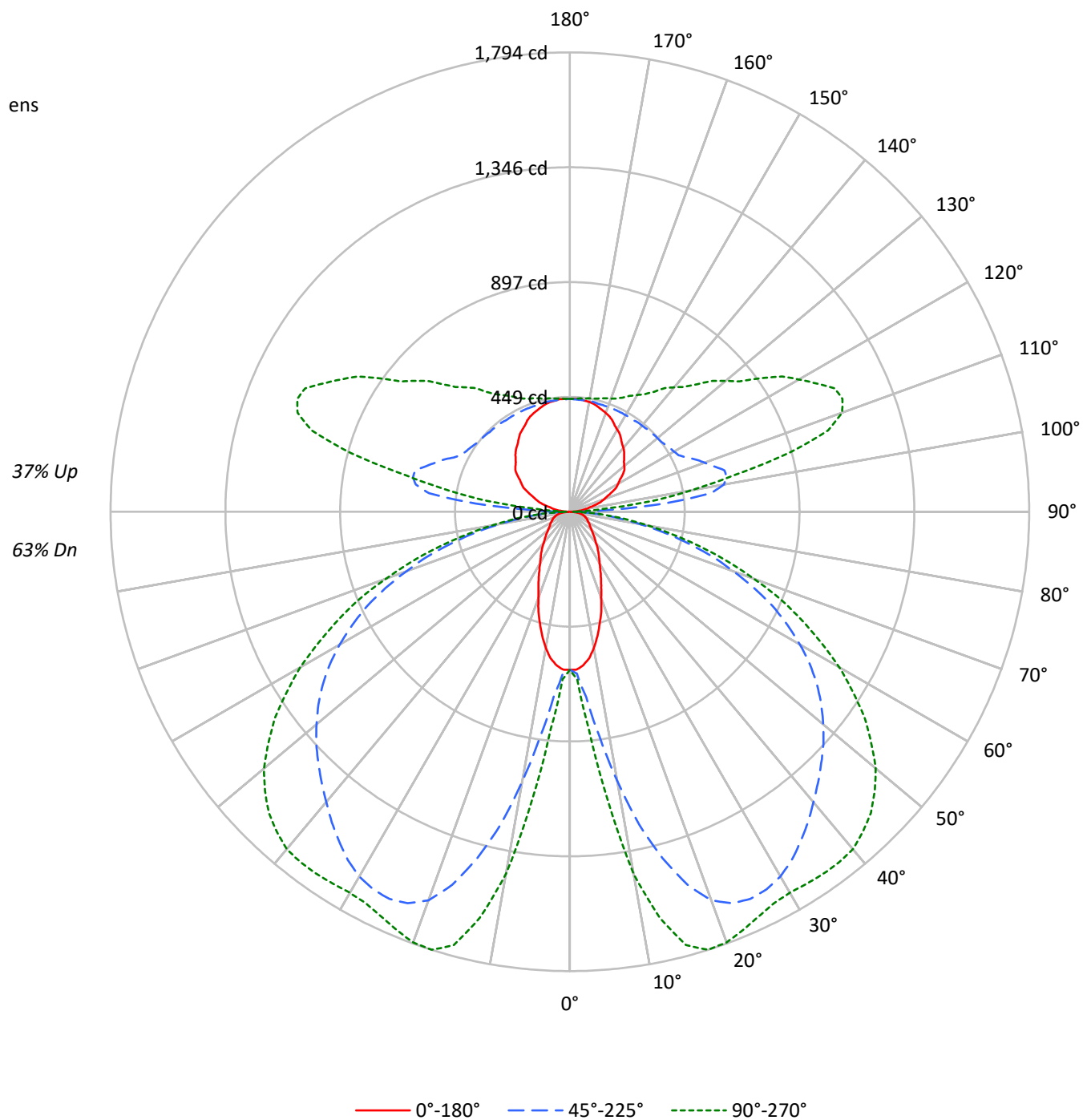
Lumens per Lamp: N/A
Luminaire Lumens: 7636.6 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
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: P936278

CATALOG NUMBER: SQ4-FB-025U-050D-B2750-1D-UNV-W2A-W-12-3000K

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32
5	68	56	47	41	63	52	45	39	46	40	35	40	35	31	35	31	28
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1908	1908	1908
5°	1865	2206	2565
10°	1692	3217	4253
15°	1439	4204	5135
20°	1172	4873	5234
25°	978	5100	5127
30°	825	5134	5118
35°	730	5050	5250
40°	636	4941	5387
45°	577	4861	5408
50°	529	4790	5318
55°	507	4685	5082
60°	520	4481	4710
65°	542	4171	4199
70°	579	3640	3547
75°	643	2970	2768
80°	709	2062	1865
85°	642	1096	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5408 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.0
10°-20°	353.7	4.6
20°-30°	618.7	8.1
30°-40°	796.5	10.4
40°-50°	889.7	11.7
50°-60°	852.1	11.2
60°-70°	675.3	8.8
70°-80°	397.1	5.2
80°-90°	112.0	1.5
90°-100°	215.2	2.8
100°-110°	565.7	7.4
110°-120°	586.6	7.7
120°-130°	470.5	6.2
130°-140°	369.2	4.8
140°-150°	283.4	3.7
150°-160°	204.1	2.7
160°-170°	124.9	1.6
170°-180°	42.2	0.6
0°-30°	1052.3	13.8
0°-40°	1848.8	24.2
0°-60°	3590.5	47.0
0°-90°	4774.9	62.5
90°-120°	1367.5	17.9
90°-150°	2490.5	32.6
90°-180°	2862.0	37.5
0°-180°	7636.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	601	645	726	821	851	55
15°	450	831	1401	1698	1752	125
25°	288	942	1668	1742	1744	133
35°	194	901	1571	1661	1726	121
45°	133	718	1389	1591	1663	103
55°	95	456	1178	1369	1407	87
65°	75	242	875	984	998	75
75°	56	149	480	528	530	58
85°	20	46	119	131	133	21
90°	3	8	22	11	11	4
95°	28	111	371	191	130	32
105°	102	154	625	950	886	108
115°	181	220	501	999	1141	179
125°	252	282	456	770	908	224
135°	300	330	441	622	705	232
145°	348	370	436	530	572	218
155°	393	404	436	478	492	181
165°	425	430	436	453	459	120
175°	441	441	439	444	444	42
180°	441	441	441	441	441	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	617.0	617.0	621.0	623.0	626.9	628.9	632.9	636.9	648.8	650.8	654.7
5°	601.2	609.1	634.9	644.7	672.6	710.2	726.1	751.9	805.5	821.3	831.3
7.5°	577.3	595.1	658.6	674.5	744.0	843.2	884.8	940.4	1025.7	1067.3	1101.1
10°	539.6	577.3	690.4	728.2	841.2	992.0	1069.3	1146.7	1275.7	1333.3	1355.1
12.5°	497.9	559.5	724.1	775.7	938.4	1158.6	1251.9	1337.2	1484.0	1561.4	1573.3
15°	450.4	533.7	755.9	831.3	1041.6	1297.5	1400.7	1505.8	1642.8	1698.3	1712.2
17.5°	408.7	513.8	785.6	865.0	1121.0	1422.5	1527.6	1615.0	1726.1	1763.8	1773.7
20°	357.1	482.2	805.5	908.7	1204.3	1513.8	1615.0	1682.4	1757.8	1781.6	1785.5
22.5°	319.5	448.3	817.4	924.6	1259.8	1569.3	1654.6	1708.2	1759.8	1767.7	1769.7
25°	287.7	410.7	815.4	942.4	1307.4	1603.0	1668.5	1708.2	1737.9	1742.0	1742.0
27.5°	257.9	369.1	807.4	946.4	1343.1	1611.0	1662.6	1690.3	1704.2	1712.2	1712.2
30°	232.1	329.3	787.6	938.4	1359.0	1603.0	1644.7	1658.6	1672.5	1684.4	1690.3
32.5°	212.3	291.7	757.8	922.5	1361.0	1583.2	1613.0	1620.9	1640.7	1668.5	1678.5
35°	194.4	254.0	724.1	900.7	1349.1	1551.5	1571.3	1579.3	1618.9	1660.6	1674.4
37.5°	176.6	226.2	680.5	863.0	1331.2	1513.8	1527.6	1541.5	1603.0	1652.6	1668.5
40°	158.7	202.3	628.9	821.3	1303.5	1468.2	1480.1	1501.9	1583.2	1640.7	1656.6
42.5°	144.8	182.5	573.4	777.8	1267.8	1416.6	1434.4	1466.2	1559.4	1620.9	1638.7
45°	132.9	162.7	513.8	718.2	1222.1	1362.9	1388.8	1432.5	1531.7	1591.1	1607.0
47.5°	121.0	148.8	452.4	656.7	1172.6	1309.4	1343.1	1392.7	1493.9	1551.5	1565.4
50°	111.1	134.9	390.9	591.2	1118.9	1251.9	1291.6	1343.1	1446.4	1499.9	1517.7
52.5°	103.1	123.1	333.3	525.7	1057.5	1192.4	1238.0	1291.6	1388.8	1440.3	1452.3
55°	95.2	113.1	283.7	456.3	994.0	1128.9	1178.5	1230.0	1325.3	1369.0	1376.9
57.5°	91.3	105.1	242.1	390.9	926.5	1057.5	1113.0	1160.6	1249.9	1283.7	1291.6
60°	85.3	99.2	210.3	335.3	853.1	990.0	1037.7	1085.2	1160.6	1188.4	1194.3
62.5°	79.4	95.2	186.5	281.7	777.8	910.7	958.3	1001.9	1065.4	1085.2	1093.2
65°	75.4	91.3	168.6	242.1	700.4	827.4	875.0	912.6	964.2	984.0	988.0
67.5°	71.4	87.3	154.7	208.3	623.0	744.0	779.7	815.4	855.1	875.0	876.9
70°	65.5	83.3	142.9	184.5	543.6	648.8	678.6	716.2	748.0	757.8	763.9
72.5°	61.5	77.4	134.9	166.6	462.2	557.5	585.3	607.1	634.9	644.7	644.7
75°	55.5	69.4	127.0	148.8	378.9	456.3	480.1	502.0	523.8	527.7	521.8
77.5°	49.6	61.5	109.2	125.0	295.6	361.1	380.9	392.8	410.7	414.6	416.6
80°	41.7	53.5	85.3	97.2	214.3	265.8	279.7	289.7	305.6	305.6	309.5
82.5°	31.7	41.7	61.5	69.4	144.8	182.5	194.4	200.4	210.3	210.3	210.3
85°	19.8	25.8	39.6	45.7	87.3	111.1	119.0	121.0	129.0	130.9	130.9
87.5°	10.0	13.9	25.8	27.8	45.7	57.6	57.6	61.5	61.5	59.6	57.6
90°	3.0	5.3	7.7	8.3	13.0	19.3	22.5	20.0	15.0	11.2	11.2
92.5°	11.8	31.9	52.2	57.2	80.4	111.3	126.8	111.1	79.8	56.3	54.0
95°	28.4	65.3	102.1	111.4	197.8	313.1	370.6	330.7	250.9	191.1	184.3
97.5°	49.2	81.7	114.3	122.4	266.4	458.6	554.6	529.4	479.0	441.1	428.2
100°	65.2	94.7	124.1	131.5	291.5	504.6	611.2	613.1	616.7	619.5	604.1
102.5°	78.8	106.3	133.8	140.7	302.9	519.1	627.2	659.3	723.5	771.7	758.5
105°	102.0	125.2	148.5	154.3	311.4	520.7	625.4	697.4	841.5	949.5	942.4
107.5°	125.6	147.3	169.1	174.5	313.0	497.5	589.8	690.3	891.2	1042.0	1043.7
110°	141.6	161.2	180.8	185.8	310.6	477.0	560.2	672.6	897.2	1065.7	1073.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.0	194.7	199.4	310.7	459.1	533.3	648.3	878.1	1050.6	1061.9
115°	181.0	198.3	215.5	219.9	313.5	438.5	501.0	611.7	833.2	999.3	1015.0
117.5°	204.4	220.1	235.8	239.7	319.4	425.7	478.8	578.8	778.6	928.5	946.0
120°	218.0	232.8	247.6	251.2	324.1	421.2	469.8	561.1	743.8	880.8	897.8
122.5°	231.4	246.3	261.1	264.8	330.9	419.0	463.0	545.3	709.7	833.1	849.7
125°	251.8	265.4	279.0	282.4	340.2	417.2	455.6	525.4	665.2	770.0	785.3
127.5°	268.4	282.1	295.8	299.3	349.3	416.1	449.4	509.4	629.4	719.3	732.3
130°	277.3	292.1	306.8	310.5	356.0	416.7	447.1	500.5	607.3	687.3	699.4
132.5°	286.5	301.2	316.0	319.7	361.5	417.2	445.0	492.8	588.4	660.1	670.9
135°	300.1	313.5	327.0	330.3	367.4	416.8	441.4	481.5	561.5	621.6	630.8
137.5°	314.0	327.4	340.6	343.9	376.3	419.3	440.8	474.7	542.3	593.1	600.7
140°	325.6	337.8	350.1	353.2	381.7	419.7	438.8	468.0	526.4	570.3	577.4
142.5°	334.5	345.8	357.1	360.0	386.2	421.2	438.8	464.4	515.8	554.3	560.4
145°	348.2	358.0	367.9	370.3	392.1	421.2	435.8	456.8	498.8	530.3	534.9
147.5°	361.8	371.3	381.0	383.4	400.8	424.2	435.8	452.4	485.4	510.2	514.0
150°	370.6	379.3	388.0	390.2	405.3	425.7	435.8	449.8	477.7	498.6	501.7
152.5°	379.8	386.4	392.9	394.6	408.3	426.6	435.8	447.7	471.6	489.5	491.8
155°	393.4	398.2	403.2	404.4	414.8	428.8	435.8	445.3	464.3	478.5	480.1
157.5°	403.5	408.2	413.0	414.2	421.4	431.0	435.8	443.2	457.9	468.9	470.0
160°	410.4	414.0	417.8	418.7	424.4	432.0	435.8	442.1	454.7	464.2	464.8
162.5°	417.2	419.9	422.7	423.4	427.5	433.1	435.8	441.1	451.8	459.8	460.4
165°	424.6	427.0	429.6	430.2	432.1	434.5	435.8	439.7	447.2	453.0	453.6
167.5°	431.4	432.6	433.7	434.0	435.6	437.7	438.8	441.2	446.3	450.0	450.3
170°	435.8	437.0	438.2	438.5	438.6	438.7	438.8	441.2	446.3	450.0	450.0
172.5°	438.2	438.5	438.7	438.8	438.8	438.8	438.8	440.7	444.7	447.6	447.4
175°	441.4	441.4	441.4	441.4	440.5	439.4	438.8	440.1	442.5	444.4	444.4
177.5°	441.4	441.4	441.4	441.4	440.7	439.9	439.4	440.3	442.3	443.8	443.5
180°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	617.0	617.0
2.5°	658.6	654.7
5°	847.2	851.1
7.5°	1140.8	1138.8
10°	1418.6	1436.4
12.5°	1620.9	1624.8
15°	1743.9	1751.8
17.5°	1791.6	1793.5
20°	1793.5	1789.6
22.5°	1771.6	1767.7
25°	1745.9	1743.9
27.5°	1722.0	1724.1
30°	1712.2	1718.1
32.5°	1712.2	1722.0
35°	1716.1	1726.1
37.5°	1714.2	1726.1
40°	1706.2	1720.1
42.5°	1684.4	1694.3
45°	1650.7	1662.6
47.5°	1607.0	1615.0
50°	1551.5	1559.4
52.5°	1482.1	1484.0
55°	1398.7	1406.6
57.5°	1309.4	1311.4
60°	1210.2	1216.1
62.5°	1105.1	1105.1
65°	994.0	997.9
67.5°	878.9	888.8
70°	761.9	763.9
72.5°	646.8	646.8
75°	527.7	529.7
77.5°	414.6	414.6
80°	307.5	309.5
82.5°	212.3	216.2
85°	132.9	132.9
87.5°	61.5	55.5
90°	11.2	11.2
92.5°	45.2	36.2
95°	157.2	130.1
97.5°	376.7	325.0
100°	542.7	481.2
102.5°	705.9	653.2
105°	914.1	885.8
107.5°	1050.6	1057.4
110°	1102.5	1132.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1107.2	1152.4
115°	1077.8	1140.6
117.5°	1015.6	1085.2
120°	965.4	1033.0
122.5°	916.6	983.3
125°	846.8	908.3
127.5°	784.2	836.0
130°	747.3	795.2
132.5°	713.8	756.7
135°	667.8	704.8
137.5°	630.9	661.3
140°	605.7	634.0
142.5°	584.8	609.2
145°	553.3	571.8
147.5°	529.3	544.6
150°	514.1	526.4
152.5°	501.1	510.5
155°	486.2	492.4
157.5°	474.5	478.8
160°	467.4	469.8
162.5°	462.7	465.1
165°	456.1	458.6
167.5°	451.3	452.4
170°	450.0	450.0
172.5°	446.5	445.6
175°	444.4	444.4
177.5°	442.5	441.4
180°	441.4	441.4

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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	4.32	5.36	5.15	6.22	7.30	17.51	18.55	18.35	19.41	20.49
	3H	5.04	5.97	5.89	6.85	7.95	19.37	20.31	20.22	21.18	22.28
	4H	5.35	6.23	6.21	7.11	8.22	20.03	20.91	20.89	21.79	22.90
	6H	5.61	6.42	6.48	7.31	8.44	20.47	21.29	21.35	22.17	23.30
	8H	5.68	6.46	6.56	7.36	8.49	20.60	21.38	21.48	22.28	23.41
	12H	5.70	6.45	6.59	7.34	8.50	20.68	21.42	21.57	22.32	23.47
4H	2H	11.57	12.45	12.43	13.33	14.44	17.81	18.69	18.67	19.57	20.68
	3H	13.15	13.89	14.03	14.80	15.93	19.87	20.62	20.75	21.53	22.66
	4H	13.25	13.93	14.14	14.83	15.99	20.65	21.33	21.54	22.24	23.39
	6H	13.27	13.86	14.18	14.79	15.95	21.21	21.79	22.11	22.72	23.88
	8H	13.25	13.80	14.16	14.73	15.90	21.38	21.93	22.29	22.85	24.02
	12H	13.22	13.72	14.15	14.66	15.84	21.48	21.98	22.41	22.92	24.10
8H	4H	14.71	15.26	15.62	16.19	17.36	20.73	21.28	21.64	22.20	23.37
	6H	14.96	15.42	15.90	16.39	17.56	21.37	21.83	22.31	22.79	23.96
	8H	14.99	15.39	15.93	16.35	17.53	21.60	22.00	22.54	22.96	24.14
	12H	14.96	15.32	15.91	16.27	17.51	21.75	22.11	22.70	23.06	24.30
12H	4H	14.87	15.36	15.80	16.31	17.48	20.69	21.19	21.62	22.13	23.31
	6H	15.23	15.63	16.17	16.59	17.78	21.36	21.76	22.30	22.72	23.91
	8H	15.31	15.66	16.26	16.61	17.85	21.60	21.95	22.55	22.90	24.14