

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: P936352

Luminaire Tested: SQ4-FB-025U-075D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936352
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

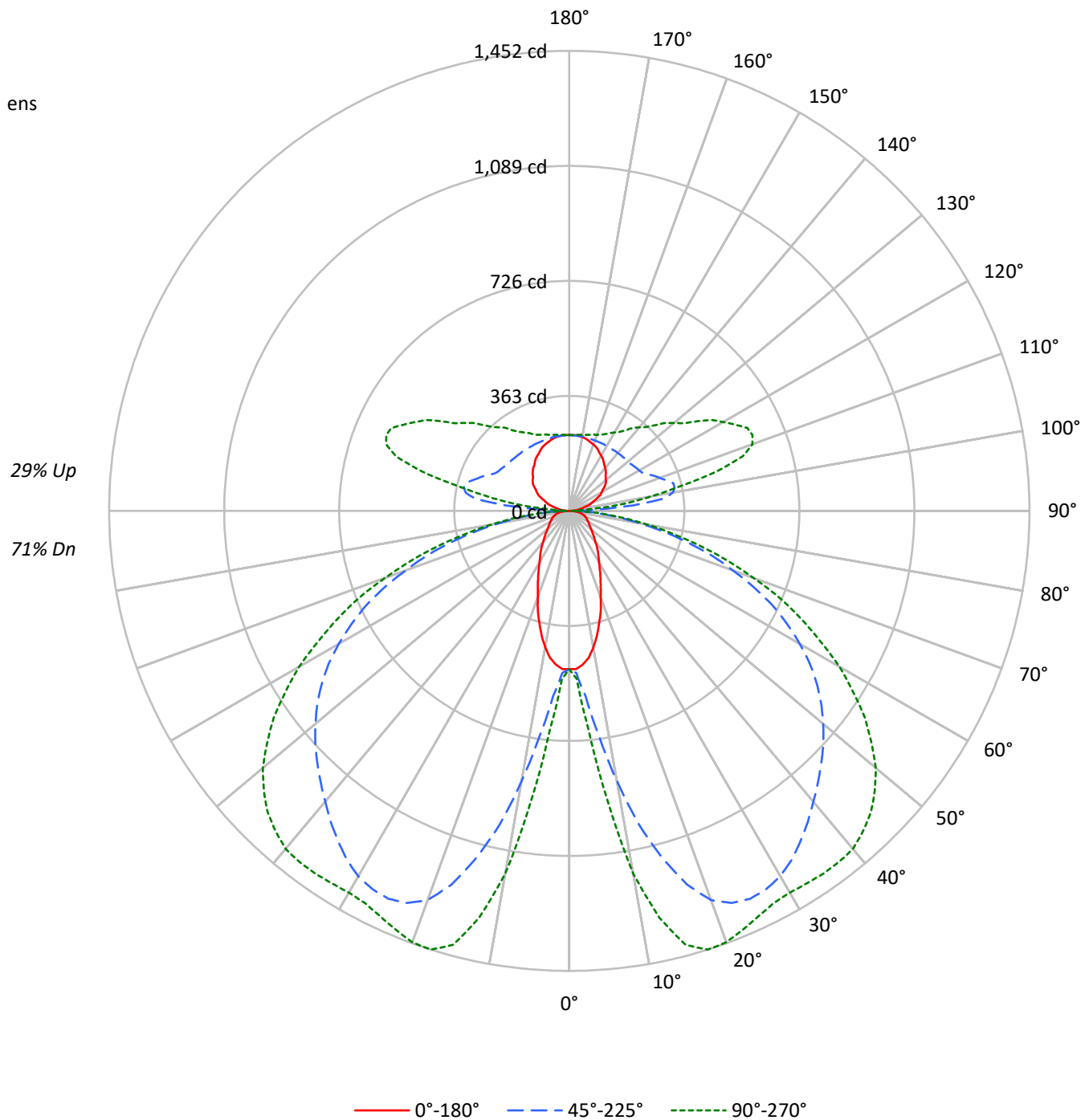
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5418.7 lumens
Efficiency: N/A
Efficacy: 90.3 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°	2317	2317	2317
5°	2264	2678	3115
10°	2053	3904	5164
15°	1745	5101	6236
20°	1421	5911	6355
25°	1185	6186	6226
30°	999	6225	6214
35°	884	6121	6375
40°	770	5988	6541
45°	697	5889	6567
50°	639	5800	6458
55°	613	5671	6172
60°	628	5421	5720
65°	652	5043	5098
70°	695	4398	4307
75°	771	3586	3361
80°	841	2486	2264
85°	750	1320	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6567 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	1.2
10°-20°	286.4	5.3
20°-30°	500.9	9.2
30°-40°	644.8	11.9
40°-50°	720.2	13.3
50°-60°	689.8	12.7
60°-70°	546.6	10.1
70°-80°	321.4	5.9
80°-90°	90.2	1.7
90°-100°	116.8	2.2
100°-110°	307.2	5.7
110°-120°	318.5	5.9
120°-130°	255.5	4.7
130°-140°	200.4	3.7
140°-150°	153.9	2.8
150°-160°	110.8	2.0
160°-170°	67.8	1.3
170°-180°	22.9	0.4
0°-30°	851.9	15.7
0°-40°	1496.7	27.6
0°-60°	2906.7	53.6
0°-90°	3865.0	71.3
90°-120°	742.5	13.7
90°-150°	1352.2	25.0
90°-180°	1554.0	28.7
0°-180°	5418.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	487	522	588	665	689	45
15°	365	673	1134	1375	1418	101
25°	233	763	1351	1410	1412	107
35°	157	729	1272	1344	1397	98
45°	108	581	1124	1288	1346	83
55°	77	369	954	1108	1139	70
65°	61	196	708	797	808	60
75°	45	120	389	427	429	47
85°	16	37	96	106	108	17
90°	2	4	12	6	6	2
95°	15	60	201	104	71	17
105°	55	84	340	516	481	59
115°	98	119	272	543	619	97
125°	137	153	247	418	493	121
135°	163	179	240	338	383	126
145°	189	201	237	288	310	118
155°	214	220	237	260	267	98
165°	230	234	237	246	249	65
175°	240	240	238	241	241	23
180°	240	240	240	240	240	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5
2.5°	499.5	499.5	502.7	504.3	507.5	509.1	512.3	515.5	525.2	526.8	530.0
5°	486.6	493.0	513.9	522.0	544.4	574.9	587.8	608.7	652.0	664.9	672.9
7.5°	467.3	481.8	533.2	546.0	602.2	682.6	716.3	761.2	830.3	864.0	891.3
10°	436.8	467.3	558.9	589.4	680.9	803.0	865.6	928.3	1032.7	1079.3	1097.0
12.5°	403.1	452.9	586.2	627.9	759.6	938.0	1013.5	1082.5	1201.4	1264.0	1273.6
15°	364.6	432.0	611.9	672.9	843.2	1050.4	1133.9	1219.0	1329.8	1374.8	1386.1
17.5°	330.8	416.0	636.0	700.2	907.4	1151.6	1236.7	1307.4	1397.3	1427.8	1435.8
20°	289.1	390.3	652.0	735.5	974.9	1225.5	1307.4	1362.0	1423.0	1442.3	1445.5
22.5°	258.6	363.0	661.7	748.4	1019.9	1270.4	1339.5	1382.8	1424.6	1431.0	1432.6
25°	232.9	332.4	660.1	762.8	1058.4	1297.7	1350.7	1382.8	1406.9	1410.1	1410.1
27.5°	208.8	298.7	653.6	766.1	1087.3	1304.2	1345.9	1368.4	1379.6	1386.1	1386.1
30°	187.9	266.6	637.6	759.6	1100.2	1297.7	1331.5	1342.7	1353.9	1363.6	1368.4
32.5°	171.8	236.1	613.5	746.8	1101.8	1281.7	1305.8	1312.2	1328.2	1350.7	1358.8
35°	157.4	205.6	586.2	729.1	1092.2	1256.0	1272.0	1278.5	1310.6	1344.3	1355.5
37.5°	142.9	183.1	550.9	698.6	1077.7	1225.5	1236.7	1247.9	1297.7	1337.9	1350.7
40°	128.5	163.8	509.1	664.9	1055.2	1188.5	1198.2	1215.8	1281.7	1328.2	1341.1
42.5°	117.2	147.8	464.1	629.6	1026.3	1146.8	1161.2	1186.9	1262.4	1312.2	1326.6
45°	107.6	131.7	416.0	581.4	989.4	1103.4	1124.3	1159.6	1239.9	1288.1	1300.9
47.5°	98.0	120.4	366.2	531.6	949.2	1060.0	1087.3	1127.5	1209.4	1256.0	1267.2
50°	89.9	109.2	316.4	478.6	905.8	1013.5	1045.6	1087.3	1170.9	1214.2	1228.7
52.5°	83.5	99.6	269.8	425.6	856.0	965.3	1002.2	1045.6	1124.3	1166.0	1175.7
55°	77.1	91.5	229.7	369.4	804.6	913.9	954.0	995.8	1072.9	1108.2	1114.6
57.5°	73.9	85.1	195.9	316.4	750.0	856.0	901.0	939.6	1011.9	1039.2	1045.6
60°	69.1	80.3	170.2	271.4	690.6	801.4	839.9	878.5	939.6	962.1	966.9
62.5°	64.2	77.1	151.0	228.1	629.6	737.2	775.7	811.0	862.4	878.5	884.9
65°	61.0	73.9	136.5	195.9	566.9	669.7	708.2	738.8	780.5	796.6	799.8
67.5°	57.8	70.7	125.3	168.6	504.3	602.2	631.2	660.1	692.2	708.2	709.9
70°	53.0	67.5	115.6	149.4	440.0	525.2	549.3	579.8	605.5	613.5	618.3
72.5°	49.8	62.6	109.2	134.9	374.2	451.3	473.8	491.4	513.9	522.0	522.0
75°	45.0	56.2	102.8	120.4	306.7	369.4	388.7	406.3	424.0	427.2	422.4
77.5°	40.2	49.8	88.3	101.2	239.3	292.3	308.4	318.0	332.4	335.7	337.3
80°	33.7	43.4	69.1	78.7	173.4	215.2	226.4	234.5	247.3	247.3	250.5
82.5°	25.7	33.7	49.8	56.2	117.2	147.8	157.4	162.2	170.2	170.2	170.2
85°	16.1	20.9	32.1	36.9	70.7	89.9	96.4	98.0	104.4	106.0	106.0
87.5°	8.0	11.2	20.9	22.5	36.9	46.6	46.6	49.8	49.8	48.2	46.6
90°	1.6	2.9	4.2	4.5	7.1	10.5	12.2	10.8	8.1	6.1	6.1
92.5°	6.4	17.3	28.3	31.1	43.7	60.5	68.8	60.3	43.4	30.6	29.4
95°	15.4	35.4	55.5	60.5	107.4	169.9	201.2	179.6	136.3	103.7	100.1
97.5°	26.7	44.4	62.0	66.4	144.6	248.9	301.1	287.5	260.1	239.5	232.5
100°	35.4	51.4	67.4	71.4	158.2	273.9	331.8	332.8	334.9	336.4	328.0
102.5°	42.8	57.7	72.7	76.4	164.5	281.9	340.6	358.0	392.8	419.0	411.9
105°	55.3	68.0	80.7	83.8	169.1	282.7	339.6	378.7	456.9	515.5	511.7
107.5°	68.2	80.0	91.8	94.8	169.9	270.1	320.2	374.8	483.9	565.7	566.7
110°	76.9	87.5	98.2	100.9	168.6	259.0	304.2	365.1	487.1	578.6	582.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	85.4	95.6	105.7	108.2	168.7	249.3	289.6	352.0	476.7	570.4	576.6
115°	98.3	107.6	117.0	119.3	170.2	238.1	272.0	332.1	452.4	542.6	551.1
117.5°	111.0	119.5	128.0	130.2	173.4	231.1	259.9	314.2	422.7	504.1	513.6
120°	118.4	126.4	134.4	136.4	176.0	228.8	255.1	304.7	403.8	478.2	487.3
122.5°	125.6	133.7	141.8	143.8	179.7	227.5	251.4	296.1	385.4	452.3	461.4
125°	136.8	144.1	151.4	153.3	184.7	226.5	247.4	285.3	361.2	418.0	426.4
127.5°	145.7	153.1	160.6	162.4	189.7	225.9	244.0	276.6	341.8	390.6	397.6
130°	150.6	158.6	166.5	168.5	193.3	226.3	242.7	271.7	329.7	373.2	379.7
132.5°	155.5	163.6	171.5	173.5	196.3	226.5	241.6	267.6	319.4	358.4	364.2
135°	162.9	170.2	177.5	179.4	199.5	226.3	239.7	261.5	304.9	337.5	342.5
137.5°	170.5	177.7	184.9	186.8	204.3	227.7	239.4	257.8	294.5	322.0	326.1
140°	176.7	183.4	190.1	191.8	207.3	227.9	238.3	254.1	285.9	309.6	313.5
142.5°	181.6	187.7	193.9	195.5	209.7	228.8	238.3	252.2	280.1	301.0	304.3
145°	189.0	194.4	199.7	201.1	213.0	228.8	236.6	248.0	270.9	288.0	290.4
147.5°	196.4	201.6	206.9	208.1	217.6	230.3	236.6	245.6	263.5	277.0	279.0
150°	201.2	206.0	210.6	211.8	220.1	231.1	236.6	244.2	259.4	270.7	272.4
152.5°	206.2	209.7	213.4	214.2	221.7	231.7	236.6	243.1	256.0	265.7	267.0
155°	213.6	216.2	218.9	219.5	225.2	232.9	236.6	241.8	252.1	259.8	260.6
157.5°	219.1	221.6	224.2	224.8	228.8	234.0	236.6	240.7	248.6	254.6	255.2
160°	222.8	224.8	226.8	227.2	230.4	234.6	236.6	240.1	246.9	252.1	252.4
162.5°	226.4	228.0	229.4	229.8	232.1	235.1	236.6	239.5	245.3	249.7	250.0
165°	230.5	231.9	233.3	233.6	234.6	236.0	236.6	238.7	242.8	246.0	246.3
167.5°	234.2	234.9	235.5	235.7	236.6	237.7	238.3	239.6	242.3	244.4	244.5
170°	236.6	237.3	237.9	238.1	238.2	238.3	238.3	239.6	242.3	244.4	244.4
172.5°	237.9	238.1	238.3	238.3	238.3	238.3	238.3	239.3	241.5	243.1	242.9
175°	239.7	239.7	239.7	239.7	239.2	238.6	238.3	238.9	240.3	241.3	241.3
177.5°	239.7	239.7	239.7	239.7	239.3	238.8	238.6	239.1	240.2	241.0	240.8
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	499.5	499.5
2.5°	533.2	530.0
5°	685.8	689.0
7.5°	923.5	921.9
10°	1148.4	1162.8
12.5°	1312.2	1315.4
15°	1411.8	1418.2
17.5°	1450.3	1451.9
20°	1451.9	1448.7
22.5°	1434.2	1431.0
25°	1413.4	1411.8
27.5°	1394.1	1395.7
30°	1386.1	1390.9
32.5°	1386.1	1394.1
35°	1389.3	1397.3
37.5°	1387.7	1397.3
40°	1381.2	1392.5
42.5°	1363.6	1371.6
45°	1336.3	1345.9
47.5°	1300.9	1307.4
50°	1256.0	1262.4
52.5°	1199.8	1201.4
55°	1132.3	1138.7
57.5°	1060.0	1061.6
60°	979.7	984.6
62.5°	894.5	894.5
65°	804.6	807.8
67.5°	711.5	719.5
70°	616.7	618.3
72.5°	523.6	523.6
75°	427.2	428.8
77.5°	335.7	335.7
80°	248.9	250.5
82.5°	171.8	175.1
85°	107.6	107.6
87.5°	49.8	45.0
90°	6.1	6.1
92.5°	24.5	19.6
95°	85.4	70.6
97.5°	204.4	176.4
100°	294.6	261.2
102.5°	383.3	354.7
105°	496.3	480.9
107.5°	570.4	574.1
110°	598.6	614.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	601.1	625.7
115°	585.2	619.3
117.5°	551.4	589.2
120°	524.1	560.9
122.5°	497.6	533.8
125°	459.8	493.2
127.5°	425.8	453.9
130°	405.7	431.7
132.5°	387.5	410.8
135°	362.6	382.6
137.5°	342.6	359.0
140°	328.8	344.2
142.5°	317.5	330.7
145°	300.5	310.4
147.5°	287.3	295.7
150°	279.1	285.9
152.5°	272.1	277.1
155°	263.9	267.3
157.5°	257.6	259.9
160°	253.7	255.1
162.5°	251.3	252.5
165°	247.6	249.0
167.5°	245.1	245.6
170°	244.4	244.4
172.5°	242.4	241.9
175°	241.3	241.3
177.5°	240.3	239.7
180°	239.7	239.7



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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	5.66	6.82	6.41	7.59	8.51	18.84	20.00	19.59	20.77	21.69
	3H	6.39	7.43	7.15	8.21	9.17	20.71	21.75	21.46	22.52	23.48
	4H	6.70	7.69	7.48	8.48	9.44	21.36	22.35	22.14	23.14	24.10
	6H	6.97	7.88	7.75	8.68	9.66	21.81	22.72	22.59	23.52	24.50
	8H	7.05	7.92	7.84	8.73	9.72	21.94	22.81	22.73	23.62	24.61
	12H	7.07	7.90	7.88	8.71	9.73	22.02	22.85	22.82	23.66	24.67
4H	2H	12.91	13.90	13.69	14.69	15.66	19.15	20.14	19.93	20.93	21.89
	3H	14.51	15.34	15.30	16.16	17.14	21.22	22.05	22.01	22.87	23.86
	4H	14.62	15.37	15.42	16.19	17.20	22.00	22.76	22.81	23.58	24.59
	6H	14.64	15.30	15.46	16.15	17.16	22.56	23.22	23.38	24.06	25.08
	8H	14.63	15.24	15.45	16.08	17.12	22.73	23.34	23.56	24.19	25.22
	12H	14.60	15.15	15.45	16.02	17.05	22.84	23.39	23.69	24.26	25.29
8H	4H	16.09	16.70	16.91	17.54	18.57	22.09	22.70	22.91	23.54	24.58
	6H	16.34	16.85	17.20	17.74	18.77	22.73	23.24	23.59	24.13	25.16
	8H	16.36	16.82	17.23	17.70	18.75	22.96	23.41	23.82	24.29	25.34
	12H	16.35	16.75	17.22	17.62	18.72	23.12	23.52	23.98	24.39	25.49
12H	4H	16.24	16.80	17.09	17.66	18.70	22.06	22.61	22.90	23.47	24.51
	6H	16.60	17.06	17.47	17.94	18.99	22.72	23.17	23.58	24.05	25.10
	8H	16.69	17.09	17.56	17.96	19.06	22.97	23.36	23.83	24.24	25.34