

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: P937936

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937936
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-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

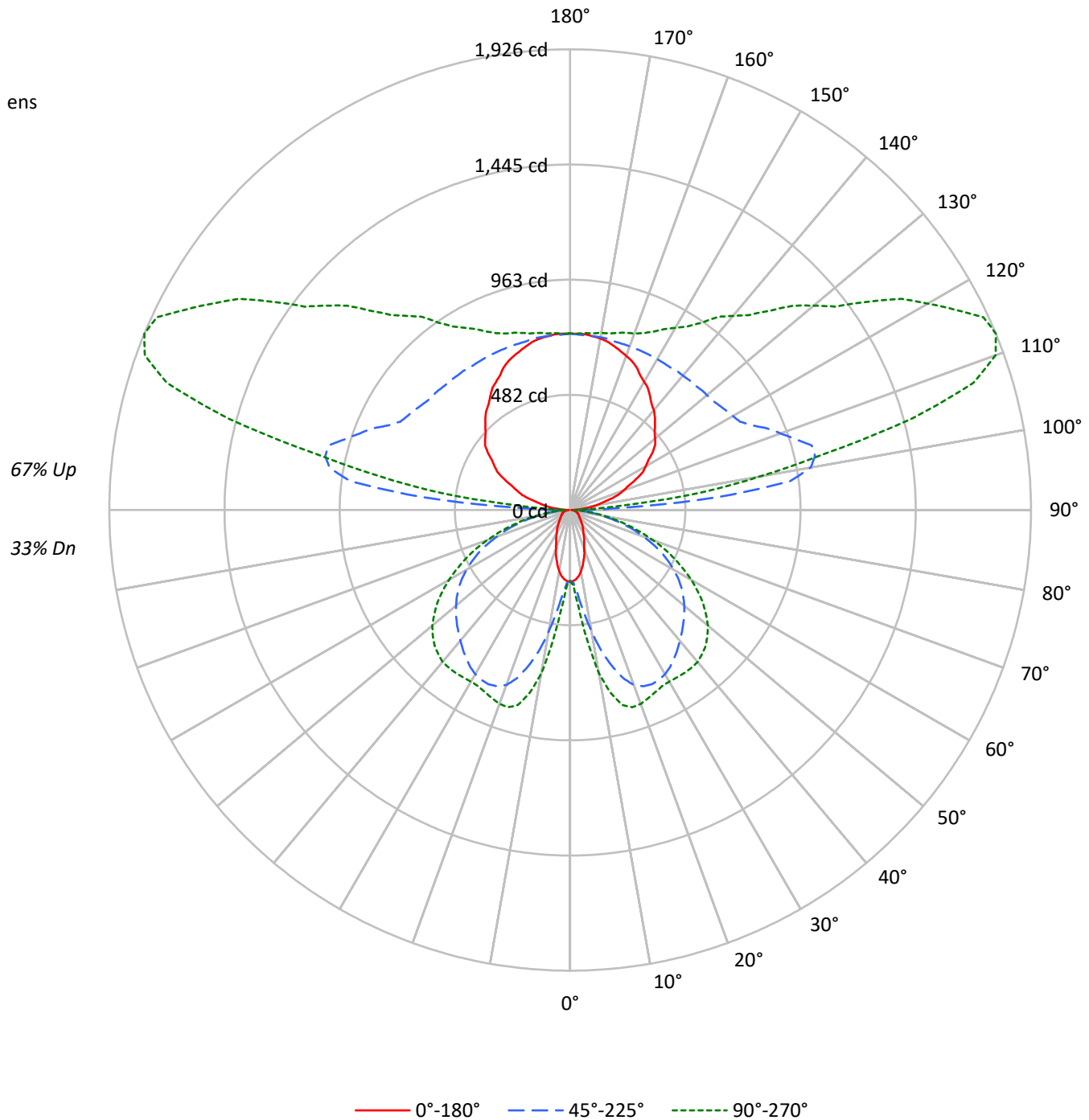
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7085.3 lumens
Efficiency: N/A
Efficacy: 127.4 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

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CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-6500K

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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33	27
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27	22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23	18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14	11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	10
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	7
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2760	2760	2760
5°	2693	3187	3709
10°	2440	4642	6149
15°	2072	6061	7425
20°	1684	7018	7567
25°	1403	7339	7413
30°	1182	7379	7400
35°	1043	7251	7591
40°	908	7086	7788
45°	821	6962	7819
50°	750	6851	7690
55°	717	6690	7348
60°	731	6388	6810
65°	756	5932	6071
70°	802	5163	5128
75°	879	4199	4002
80°	941	2901	2698
85°	795	1532	1381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	0.5
10°-20°	170.5	2.4
20°-30°	298.2	4.2
30°-40°	383.9	5.4
40°-50°	428.8	6.1
50°-60°	410.7	5.8
60°-70°	325.5	4.6
70°-80°	191.4	2.7
80°-90°	56.0	0.8
90°-100°	359.6	5.1
100°-110°	945.4	13.3
110°-120°	980.2	13.8
120°-130°	786.3	11.1
130°-140°	616.9	8.7
140°-150°	473.5	6.7
150°-160°	341.0	4.8
160°-170°	208.7	2.9
170°-180°	70.5	1.0
0°-30°	507.2	7.2
0°-40°	891.0	12.6
0°-60°	1730.5	24.4
0°-90°	2303.3	32.5
90°-120°	2285.1	32.3
90°-150°	4161.8	58.7
90°-180°	4782.0	67.5
0°-180°	7085.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	297	297	297	297	297	
5°	290	311	350	396	410	27
15°	217	401	675	818	844	60
25°	139	454	804	840	840	64
35°	94	434	757	800	832	59
45°	64	346	669	767	801	50
55°	46	220	568	660	678	42
65°	36	117	422	474	481	36
75°	27	72	231	254	255	28
85°	10	22	57	63	64	10
90°	5	14	38	19	19	5
95°	48	186	619	319	217	53
105°	170	258	1045	1587	1480	181
115°	302	367	837	1670	1906	299
125°	421	472	761	1287	1518	374
135°	502	552	738	1039	1178	388
145°	582	619	728	886	956	364
155°	658	676	728	800	823	302
165°	709	719	728	757	766	200
175°	738	738	733	743	743	70
180°	738	738	738	738	738	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4
2.5°	297.4	297.4	299.3	300.2	302.2	303.1	305.0	306.9	312.7	313.6	315.5
5°	289.7	293.6	306.0	310.8	324.1	342.3	350.0	362.4	388.2	395.9	400.6
7.5°	278.3	286.9	317.5	325.1	358.6	406.4	426.5	453.2	494.4	514.4	530.7
10°	260.1	278.3	332.8	350.9	405.4	478.1	515.4	552.7	614.8	642.6	653.1
12.5°	240.0	269.6	349.0	373.9	452.3	558.4	603.4	644.5	715.2	752.5	758.3
15°	217.1	257.2	364.3	400.6	502.0	625.4	675.1	725.8	791.7	818.5	825.2
17.5°	197.0	247.7	378.7	416.9	540.2	685.6	736.3	778.3	831.9	850.1	854.8
20°	172.1	232.4	388.2	437.9	580.4	729.6	778.3	810.9	847.2	858.7	860.6
22.5°	153.9	216.1	394.0	445.6	607.2	756.3	797.5	823.3	848.1	852.0	852.9
25°	138.6	197.9	393.0	454.2	630.1	772.6	804.2	823.3	837.6	839.5	839.5
27.5°	124.3	177.9	389.2	456.1	647.3	776.4	801.3	814.7	821.4	825.2	825.2
30°	111.9	158.7	379.6	452.3	655.0	772.6	792.7	799.4	806.1	811.8	814.7
32.5°	102.3	140.6	365.3	444.6	655.9	763.0	777.4	781.2	790.8	804.2	808.9
35°	93.7	122.4	349.0	434.1	650.2	747.7	757.3	761.1	780.3	800.3	807.0
37.5°	85.1	109.0	328.0	415.9	641.6	729.6	736.3	743.0	772.6	796.5	804.2
40°	76.5	97.5	303.1	395.9	628.2	707.6	713.3	723.8	763.0	790.8	798.4
42.5°	69.8	88.0	276.3	374.8	611.0	682.7	691.3	706.6	751.6	781.2	789.8
45°	64.1	78.4	247.7	346.1	589.0	656.9	669.3	690.4	738.2	766.9	774.5
47.5°	58.3	71.7	218.0	316.5	565.1	631.1	647.3	671.2	720.0	747.7	754.4
50°	53.5	65.0	188.4	284.9	539.3	603.4	622.5	647.3	697.1	722.9	731.5
52.5°	49.7	59.3	160.6	253.4	509.7	574.7	596.7	622.5	669.3	694.2	699.9
55°	45.9	54.5	136.7	219.9	479.1	544.1	568.0	592.8	638.7	659.8	663.6
57.5°	44.0	50.7	116.7	188.4	446.5	509.7	536.4	559.4	602.4	618.7	622.5
60°	41.1	47.8	101.4	161.6	411.2	477.1	500.1	523.0	559.4	572.8	575.6
62.5°	38.2	45.9	89.9	135.8	374.8	438.9	461.8	482.9	513.5	523.0	526.9
65°	36.3	44.0	81.3	116.7	337.5	398.7	421.7	439.8	464.7	474.3	476.2
67.5°	34.4	42.1	74.6	100.4	300.2	358.6	375.8	393.0	412.1	421.7	422.6
70°	31.6	40.2	68.8	88.9	262.0	312.7	327.0	345.2	360.5	365.3	368.1
72.5°	29.6	37.3	65.0	80.3	222.8	268.7	282.1	292.6	306.0	310.8	310.8
75°	26.8	33.5	61.2	71.7	182.6	219.9	231.4	241.9	252.4	254.3	251.5
77.5°	23.9	29.6	52.6	60.2	142.5	174.0	183.6	189.3	197.9	199.8	200.8
80°	20.1	25.8	41.1	46.9	103.3	128.1	134.8	139.6	147.3	147.3	149.2
82.5°	15.3	20.1	29.6	33.5	69.8	88.0	93.7	96.6	101.4	101.4	101.4
85°	9.6	12.4	19.1	22.0	42.1	53.5	57.4	58.3	62.2	63.1	63.1
87.5°	4.8	6.7	12.4	13.4	22.0	27.7	27.7	29.6	29.6	28.7	27.7
90°	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.1	18.8	18.8
92.5°	19.8	53.5	87.1	95.5	134.3	186.1	211.9	185.7	133.4	94.1	90.4
95°	47.5	109.1	170.8	186.2	330.6	523.0	619.3	552.7	419.4	319.4	308.0
97.5°	82.1	136.4	190.9	204.4	445.2	766.2	926.7	884.6	800.3	737.1	715.6
100°	108.9	158.2	207.5	219.8	487.0	843.2	1021.3	1024.4	1030.6	1035.2	1009.5
102.5°	131.7	177.7	223.7	235.1	506.1	867.5	1048.1	1101.8	1209.2	1289.7	1267.7
105°	170.3	209.3	248.2	258.0	520.4	870.2	1045.1	1165.5	1406.2	1586.7	1574.8
107.5°	209.9	246.2	282.6	291.6	523.0	831.5	985.7	1153.6	1489.4	1741.1	1744.0
110°	236.7	269.5	302.2	310.4	519.0	797.2	936.2	1123.9	1499.3	1780.8	1793.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.9	294.1	325.3	333.1	519.1	767.2	891.2	1083.3	1467.5	1755.6	1774.5
115°	302.4	331.3	360.2	367.4	524.0	732.7	837.1	1022.2	1392.3	1669.9	1696.1
117.5°	341.6	367.8	394.0	400.5	533.7	711.3	800.0	967.0	1301.0	1551.5	1580.6
120°	364.4	389.1	413.7	419.9	541.7	704.0	785.2	937.8	1243.0	1471.9	1500.2
122.5°	386.7	411.5	436.4	442.6	553.1	700.2	773.8	911.3	1186.1	1392.1	1420.0
125°	420.8	443.5	466.1	471.8	568.4	697.1	761.4	878.2	1111.6	1286.7	1312.4
127.5°	448.6	471.4	494.3	500.0	583.7	695.2	751.0	851.2	1051.7	1202.0	1223.7
130°	463.4	488.0	512.7	518.8	594.9	696.4	747.1	836.3	1014.7	1148.6	1168.6
132.5°	478.8	503.4	528.1	534.2	604.0	697.1	743.6	823.5	983.3	1103.1	1120.9
135°	501.5	524.0	546.4	552.0	613.9	696.4	737.7	804.6	938.4	1038.7	1054.2
137.5°	524.8	546.9	569.2	574.8	628.7	700.7	736.7	793.2	906.3	991.1	1003.7
140°	544.1	564.5	585.0	590.2	637.9	701.5	733.2	782.1	879.8	953.0	964.9
142.5°	558.9	577.8	596.8	601.5	645.4	703.9	733.2	776.1	861.9	926.3	936.4
145°	581.7	598.2	614.7	618.8	655.3	703.9	728.2	763.3	833.5	886.2	893.9
147.5°	604.5	620.6	636.6	640.6	669.8	708.7	728.2	755.9	811.1	852.5	858.9
150°	619.3	633.9	648.4	652.0	677.5	711.3	728.2	751.6	798.2	833.2	838.4
152.5°	634.7	645.7	656.7	659.5	682.4	712.9	728.2	748.1	788.0	817.8	821.8
155°	657.5	665.6	673.7	675.7	693.2	716.6	728.2	744.1	775.8	799.6	802.2
157.5°	674.3	682.2	690.1	692.1	704.1	720.2	728.2	740.6	765.2	783.7	785.5
160°	685.7	691.8	698.0	699.6	709.1	721.8	728.2	738.8	759.9	775.8	776.8
162.5°	697.1	701.7	706.3	707.5	714.4	723.6	728.2	737.1	755.0	768.4	769.4
165°	709.4	713.6	717.8	718.9	722.0	726.1	728.2	734.6	747.4	756.9	758.0
167.5°	720.9	722.8	724.8	725.3	727.9	731.5	733.2	737.4	745.7	752.0	752.5
170°	728.2	730.2	732.3	732.7	732.9	733.1	733.2	737.4	745.7	752.0	752.0
172.5°	732.3	732.6	733.1	733.2	733.2	733.2	733.2	736.5	743.1	748.0	747.6
175°	737.7	737.7	737.7	737.7	736.2	734.2	733.2	735.3	739.4	742.6	742.6
177.5°	737.7	737.7	737.7	737.7	736.6	734.9	734.2	735.8	739.1	741.6	741.1
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	297.4	297.4
2.5°	317.5	315.5
5°	408.3	410.2
7.5°	549.8	548.9
10°	683.7	692.3
12.5°	781.2	783.1
15°	840.5	844.3
17.5°	863.4	864.4
20°	864.4	862.5
22.5°	853.9	852.0
25°	841.4	840.5
27.5°	830.0	830.9
30°	825.2	828.1
32.5°	825.2	830.0
35°	827.1	831.9
37.5°	826.2	831.9
40°	822.3	829.0
42.5°	811.8	816.6
45°	795.6	801.3
47.5°	774.5	778.3
50°	747.7	751.6
52.5°	714.3	715.2
55°	674.1	677.9
57.5°	631.1	632.0
60°	583.3	586.1
62.5°	532.6	532.6
65°	479.1	481.0
67.5°	423.6	428.4
70°	367.2	368.1
72.5°	311.7	311.7
75°	254.3	255.3
77.5°	199.8	199.8
80°	148.2	149.2
82.5°	102.3	104.2
85°	64.1	64.1
87.5°	29.6	26.8
90°	18.8	18.8
92.5°	75.3	60.4
95°	262.7	217.3
97.5°	629.4	543.1
100°	906.8	804.0
102.5°	1179.7	1091.7
105°	1527.6	1480.3
107.5°	1755.5	1766.9
110°	1842.4	1891.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1850.1	1925.9
115°	1801.1	1906.1
117.5°	1697.1	1813.4
120°	1613.2	1726.3
122.5°	1531.5	1643.1
125°	1415.1	1517.9
127.5°	1310.4	1397.1
130°	1248.7	1328.8
132.5°	1192.7	1264.4
135°	1116.0	1177.7
137.5°	1054.4	1105.0
140°	1012.1	1059.5
142.5°	977.1	1017.9
145°	924.7	955.5
147.5°	884.4	909.9
150°	859.1	879.8
152.5°	837.3	853.0
155°	812.5	822.8
157.5°	792.8	800.0
160°	781.0	785.2
162.5°	773.4	777.3
165°	762.2	766.4
167.5°	754.2	756.0
170°	752.0	752.0
172.5°	746.1	744.6
175°	742.6	742.6
177.5°	739.4	737.7
180°	737.7	737.7



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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	2.66	3.40	3.75	4.49	5.99	15.79	16.54	16.88	17.63	19.13
	3H	3.36	4.02	4.45	5.12	6.64	17.61	18.28	18.71	19.38	20.89
	4H	3.65	4.28	4.76	5.38	6.91	18.24	18.87	19.35	19.97	21.50
	6H	3.89	4.48	5.01	5.58	7.12	18.65	19.24	19.77	20.34	21.87
	8H	3.96	4.51	5.08	5.63	7.16	18.76	19.32	19.88	20.44	21.96
	12H	3.97	4.50	5.10	5.61	7.16	18.82	19.35	19.94	20.46	22.01
4H	2H	9.83	10.47	10.95	11.57	13.09	16.06	16.69	17.17	17.79	19.31
	3H	11.39	11.92	12.51	13.05	14.58	18.08	18.61	19.20	19.73	21.27
	4H	11.48	11.97	12.61	13.09	14.64	18.83	19.32	19.95	20.43	21.99
	6H	11.49	11.90	12.62	13.04	14.59	19.35	19.77	20.48	20.91	22.45
	8H	11.46	11.85	12.59	12.98	14.55	19.50	19.89	20.63	21.02	22.58
	12H	11.41	11.77	12.56	12.91	14.48	19.58	19.93	20.73	21.08	22.64
8H	4H	12.91	13.30	14.04	14.43	15.99	18.88	19.27	20.01	20.40	21.96
	6H	13.14	13.47	14.30	14.64	16.20	19.49	19.81	20.64	20.99	22.55
	8H	13.16	13.44	14.32	14.59	16.17	19.70	19.98	20.86	21.14	22.72
	12H	13.12	13.37	14.29	14.52	16.13	19.83	20.08	20.99	21.23	22.84
12H	4H	13.04	13.40	14.19	14.54	16.11	18.82	19.18	19.97	20.32	21.89
	6H	13.40	13.68	14.55	14.83	16.41	19.47	19.75	20.63	20.91	22.49
	8H	13.46	13.71	14.62	14.86	16.47	19.69	19.94	20.85	21.09	22.70