

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: P937183

Luminaire Tested: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937183
REPORT IS A COMBINATION OF REPORTS P933502 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

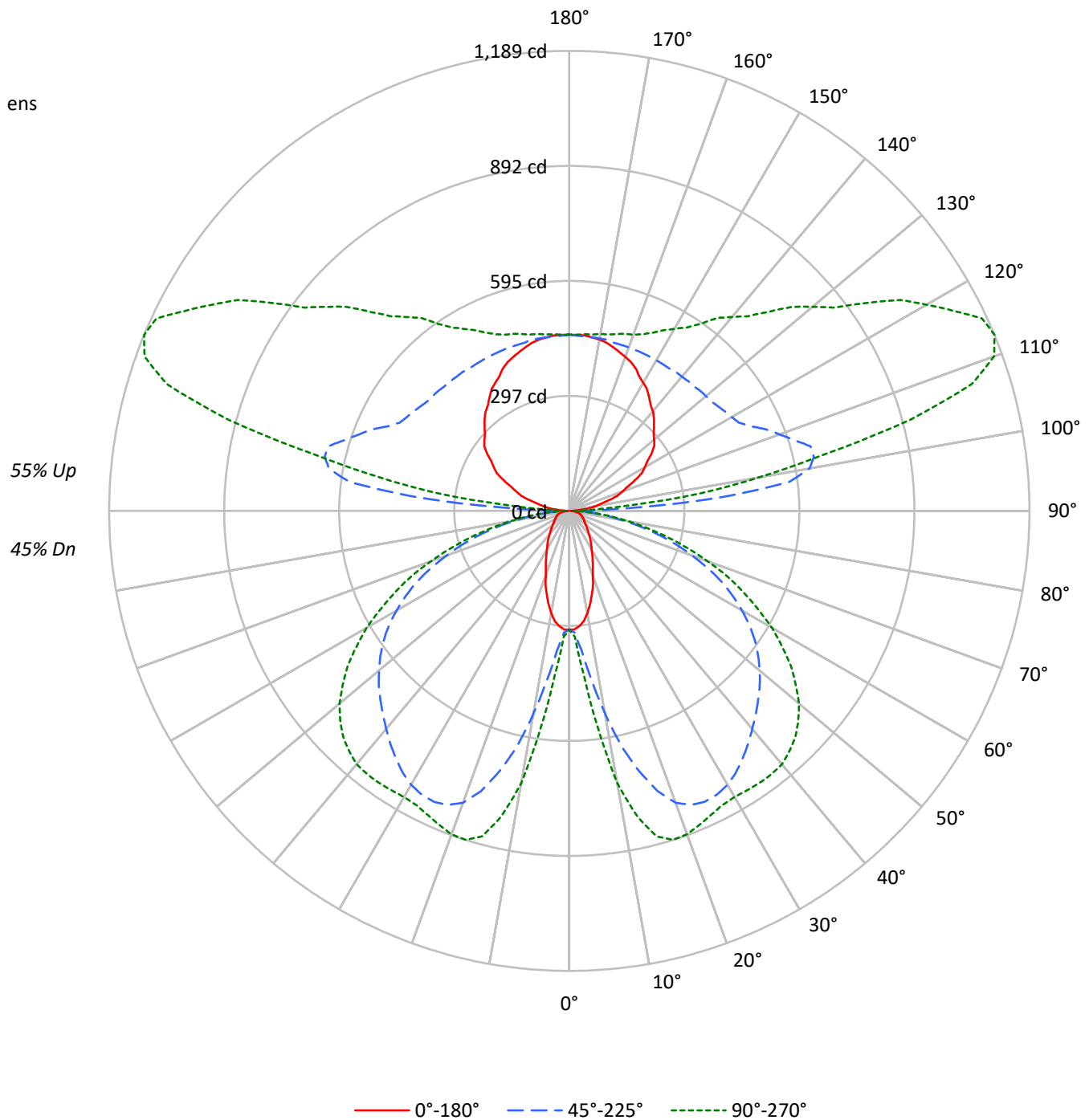
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5326.3 lumens
Efficiency: N/A
Efficacy: 125.6 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: General Diffuse

Input Watts (W): 42.4
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

TEST NUMBER: P937183
CATALOG NUMBER: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-4-3000K

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			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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45	45	45	45
1	96	92	88	84	88	84	80	77	70	67	65	57	55	53	44	43	42	37	37	37	37
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35	30	30	30	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25	25	25	25
4	72	61	53	47	65	56	49	43	46	41	37	38	34	31	30	27	24	21	21	21	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	26	23	21	17	17	17	17
6	60	48	40	34	55	44	37	31	37	31	27	30	26	22	24	21	18	15	15	15	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	21	18	16	13	13	13	13
8	51	39	31	26	47	36	29	24	30	24	21	25	20	17	20	16	14	11	11	11	11
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10	10	10	10
10	44	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9	9	9	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2845	2845	2845
5°	2777	3286	3825
10°	2516	4787	6341
15°	2136	6249	7656
20°	1737	7237	7803
25°	1447	7567	7645
30°	1219	7609	7630
35°	1075	7477	7827
40°	936	7307	8032
45°	846	7180	8063
50°	774	7065	7929
55°	739	6899	7578
60°	754	6587	7022
65°	781	6117	6261
70°	825	5324	5288
75°	905	4329	4128
80°	969	2991	2781
85°	820	1580	1424

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8063 cd/sqm



TEST NUMBER: P937183

CATALOG NUMBER: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-4-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.7
10°-20°	175.8	3.3
20°-30°	307.5	5.8
30°-40°	395.8	7.4
40°-50°	442.2	8.3
50°-60°	423.5	8.0
60°-70°	335.6	6.3
70°-80°	197.3	3.7
80°-90°	56.6	1.1
90°-100°	222.0	4.2
100°-110°	583.6	11.0
110°-120°	605.2	11.4
120°-130°	485.4	9.1
130°-140°	380.9	7.2
140°-150°	292.3	5.5
150°-160°	210.5	4.0
160°-170°	128.8	2.4
170°-180°	43.5	0.8
0°-30°	523.0	9.8
0°-40°	918.8	17.3
0°-60°	1784.4	33.5
0°-90°	2374.0	44.6
90°-120°	1410.8	26.5
90°-150°	2569.5	48.2
90°-180°	2952.0	55.4
0°-180°	5326.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	307	307	307	307	307	
5°	299	320	361	408	423	28
15°	224	413	696	844	871	62
25°	143	468	829	866	867	66
35°	97	448	781	825	858	60
45°	66	357	690	791	826	51
55°	47	227	586	680	699	43
65°	38	120	435	489	496	37
75°	28	74	239	262	263	29
85°	10	23	59	65	66	10
90°	3	9	23	12	12	3
95°	29	115	382	197	134	33
105°	105	159	645	980	914	111
115°	187	227	517	1031	1177	184
125°	260	291	470	794	937	231
135°	310	341	455	641	727	240
145°	359	382	450	547	590	225
155°	406	417	450	494	508	186
165°	438	444	450	467	473	124
175°	455	455	453	458	458	43
180°	455	455	455	455	455	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6
2.5°	306.6	306.6	308.6	309.6	311.6	312.6	314.5	316.5	322.4	323.4	325.4
5°	298.8	302.7	315.5	320.4	334.3	353.0	360.9	373.7	400.3	408.2	413.1
7.5°	286.9	295.8	327.4	335.2	369.8	419.0	439.8	467.4	509.8	530.5	547.2
10°	268.2	286.9	343.1	361.9	418.1	493.0	531.5	569.9	634.0	662.6	673.4
12.5°	247.5	278.1	359.9	385.5	466.4	575.8	622.2	664.6	737.5	776.0	781.9
15°	223.8	265.2	375.7	413.1	517.6	644.8	696.1	748.4	816.4	844.0	850.9
17.5°	203.1	255.4	390.5	429.9	557.1	707.0	759.2	802.6	857.8	876.6	881.5
20°	177.5	239.6	400.3	451.6	598.5	752.3	802.6	836.1	873.6	885.4	887.4
22.5°	158.7	222.8	406.2	459.5	626.1	779.9	822.3	848.9	874.6	878.5	879.5
25°	143.0	204.1	405.2	468.4	649.8	796.7	829.2	848.9	863.7	865.7	865.7
27.5°	128.2	183.4	401.3	470.3	667.5	800.6	826.3	840.1	847.0	850.9	850.9
30°	115.4	163.7	391.4	466.4	675.4	796.7	817.4	824.3	831.2	837.1	840.1
32.5°	105.5	144.9	376.7	458.5	676.4	786.8	801.6	805.6	815.4	829.2	834.2
35°	96.6	126.2	359.9	447.6	670.5	771.1	780.9	784.9	804.6	825.3	832.2
37.5°	87.8	112.4	338.2	428.9	661.6	752.3	759.2	766.1	796.7	821.3	829.2
40°	78.9	100.6	312.6	408.2	647.8	729.6	735.6	746.4	786.8	815.4	823.3
42.5°	72.0	90.7	285.0	386.5	630.1	704.0	712.9	728.7	775.0	805.6	814.4
45°	66.1	80.9	255.4	356.9	607.4	677.4	690.2	711.9	761.2	790.8	798.7
47.5°	60.1	74.0	224.8	326.4	582.7	650.8	667.5	692.2	742.5	771.1	778.0
50°	55.2	67.0	194.2	293.8	556.1	622.2	641.9	667.5	718.8	745.4	754.3
52.5°	51.3	61.1	165.6	261.3	525.5	592.6	615.3	641.9	690.2	715.8	721.8
55°	47.3	56.2	141.0	226.8	494.0	561.0	585.7	611.3	658.6	680.3	684.3
57.5°	45.4	52.3	120.3	194.2	460.5	525.5	553.1	576.8	621.2	637.9	641.9
60°	42.4	49.3	104.5	166.6	424.0	492.0	515.7	539.3	576.8	590.6	593.6
62.5°	39.4	47.3	92.7	140.0	386.5	452.6	476.2	497.9	529.5	539.3	543.3
65°	37.5	45.4	83.8	120.3	348.1	411.2	434.8	453.6	479.2	489.1	491.0
67.5°	35.5	43.4	76.9	103.5	309.6	369.8	387.5	405.2	425.0	434.8	435.8
70°	32.5	41.4	71.0	91.7	270.2	322.4	337.2	355.9	371.7	376.7	379.6
72.5°	30.6	38.5	67.0	82.8	229.7	277.1	290.9	301.7	315.5	320.4	320.4
75°	27.6	34.5	63.1	74.0	188.3	226.8	238.6	249.5	260.3	262.3	259.3
77.5°	24.6	30.6	54.2	62.1	146.9	179.5	189.3	195.2	204.1	206.1	207.1
80°	20.7	26.6	42.4	48.3	106.5	132.1	139.0	144.0	151.8	151.8	153.8
82.5°	15.8	20.7	30.6	34.5	72.0	90.7	96.6	99.6	104.5	104.5	104.5
85°	9.9	12.8	19.7	22.7	43.4	55.2	59.2	60.1	64.1	65.1	65.1
87.5°	4.9	6.9	12.8	13.8	22.7	28.6	28.6	30.6	30.6	29.6	28.6
90°	3.1	5.5	8.0	8.6	13.5	20.0	23.3	20.7	15.5	11.6	11.6
92.5°	12.2	33.0	53.7	59.0	82.9	114.9	130.8	114.7	82.3	58.1	55.8
95°	29.4	67.4	105.5	115.0	204.1	322.9	382.4	341.2	258.8	197.1	190.1
97.5°	50.8	84.3	117.8	126.2	274.9	473.1	572.2	546.1	494.2	455.1	441.8
100°	67.2	97.6	128.1	135.7	300.6	520.6	630.5	632.4	636.3	639.1	623.3
102.5°	81.3	109.7	138.0	145.1	312.5	535.6	647.1	680.2	746.5	796.2	782.6
105°	105.1	129.2	153.2	159.2	321.2	537.3	645.2	719.6	868.2	979.6	972.3
107.5°	129.6	152.0	174.4	180.0	322.9	513.3	608.6	712.2	919.4	1074.9	1076.7
110°	146.1	166.3	186.6	191.7	320.4	492.1	578.0	693.8	925.6	1099.4	1107.0



TEST NUMBER: P937183

CATALOG NUMBER: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.3	181.6	200.8	205.7	320.5	473.7	550.2	668.8	905.9	1083.8	1095.5
115°	186.7	204.5	222.3	226.8	323.5	452.4	516.9	631.1	859.6	1031.0	1047.1
117.5°	210.9	227.1	243.2	247.3	329.5	439.1	493.9	597.0	803.2	957.9	975.8
120°	225.0	240.2	255.4	259.2	334.4	434.6	484.7	579.0	767.4	908.7	926.1
122.5°	238.7	254.1	269.4	273.2	341.4	432.3	477.7	562.5	732.2	859.5	876.8
125°	259.8	273.8	287.8	291.3	350.9	430.4	470.1	542.2	686.4	794.4	810.3
127.5°	277.0	291.1	305.2	308.7	360.4	429.3	463.7	525.6	649.4	742.2	755.6
130°	286.1	301.3	316.5	320.4	367.3	429.9	461.3	516.4	626.5	709.1	721.5
132.5°	295.6	310.8	326.0	329.8	372.9	430.4	459.1	508.4	607.1	681.0	692.1
135°	309.6	323.4	337.3	340.8	379.0	430.0	455.4	496.7	579.4	641.3	650.9
137.5°	324.0	337.7	351.4	354.9	388.2	432.7	454.8	489.7	559.6	611.9	619.7
140°	335.9	348.6	361.2	364.3	393.8	433.1	452.7	482.8	543.1	588.3	595.6
142.5°	345.1	356.7	368.4	371.3	398.4	434.6	452.7	479.2	532.1	571.9	578.2
145°	359.1	369.4	379.5	382.1	404.6	434.6	449.6	471.3	514.6	547.1	551.9
147.5°	373.2	383.1	393.0	395.5	413.5	437.6	449.6	466.7	500.8	526.3	530.3
150°	382.4	391.3	400.3	402.6	418.3	439.2	449.6	464.0	492.8	514.4	517.6
152.5°	391.8	398.6	405.4	407.1	421.3	440.2	449.6	461.9	486.5	504.9	507.3
155°	405.9	411.0	415.9	417.2	428.0	442.4	449.6	459.4	478.9	493.6	495.2
157.5°	416.3	421.2	426.1	427.3	434.7	444.7	449.6	457.2	472.4	483.8	484.9
160°	423.3	427.1	430.9	431.9	437.8	445.7	449.6	456.1	469.2	479.0	479.6
162.5°	430.4	433.2	436.1	436.8	441.0	446.8	449.6	455.1	466.1	474.4	475.0
165°	438.0	440.5	443.1	443.8	445.8	448.3	449.6	453.6	461.4	467.4	468.1
167.5°	445.0	446.2	447.4	447.7	449.4	451.6	452.7	455.2	460.5	464.3	464.6
170°	449.6	450.8	452.1	452.4	452.5	452.6	452.7	455.2	460.5	464.3	464.3
172.5°	452.1	452.4	452.6	452.7	452.7	452.7	452.7	454.7	458.8	461.8	461.6
175°	455.4	455.4	455.4	455.4	454.5	453.3	452.7	454.0	456.5	458.5	458.5
177.5°	455.4	455.4	455.4	455.4	454.7	453.8	453.3	454.3	456.3	457.9	457.6
180°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4



TEST NUMBER: P937183

CATALOG NUMBER: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	306.6	306.6
2.5°	327.4	325.4
5°	421.0	423.0
7.5°	567.0	566.0
10°	705.0	713.9
12.5°	805.6	807.5
15°	866.7	870.6
17.5°	890.4	891.3
20°	891.3	889.4
22.5°	880.5	878.5
25°	867.7	866.7
27.5°	855.8	856.8
30°	850.9	853.9
32.5°	850.9	855.8
35°	852.9	857.8
37.5°	851.9	857.8
40°	848.0	854.9
42.5°	837.1	842.0
45°	820.4	826.3
47.5°	798.7	802.6
50°	771.1	775.0
52.5°	736.5	737.5
55°	695.1	699.1
57.5°	650.8	651.7
60°	601.5	604.4
62.5°	549.2	549.2
65°	494.0	496.0
67.5°	436.8	441.7
70°	378.6	379.6
72.5°	321.4	321.4
75°	262.3	263.3
77.5°	206.1	206.1
80°	152.8	153.8
82.5°	105.5	107.5
85°	66.1	66.1
87.5°	30.6	27.6
90°	11.6	11.6
92.5°	46.5	37.3
95°	162.2	134.2
97.5°	388.6	335.3
100°	559.9	496.4
102.5°	728.3	673.9
105°	943.1	913.9
107.5°	1083.8	1090.9
110°	1137.4	1167.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1142.3	1189.0
115°	1112.0	1176.8
117.5°	1047.7	1119.6
120°	996.0	1065.8
122.5°	945.6	1014.5
125°	873.7	937.1
127.5°	809.0	862.6
130°	771.0	820.4
132.5°	736.3	780.6
135°	689.0	727.2
137.5°	651.0	682.2
140°	624.9	654.1
142.5°	603.2	628.4
145°	570.9	589.9
147.5°	546.0	561.8
150°	530.4	543.2
152.5°	517.0	526.6
155°	501.6	508.0
157.5°	489.5	493.9
160°	482.2	484.7
162.5°	477.4	479.9
165°	470.6	473.2
167.5°	465.7	466.8
170°	464.3	464.3
172.5°	460.7	459.7
175°	458.5	458.5
177.5°	456.5	455.4
180°	455.4	455.4



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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	4.11	4.96	5.10	5.97	7.31	17.25	18.09	18.24	19.11	20.45
	3H	4.81	5.57	5.82	6.59	7.96	19.07	19.83	20.07	20.85	22.21
	4H	5.11	5.83	6.13	6.86	8.23	19.70	20.43	20.72	21.45	22.82
	6H	5.36	6.03	6.39	7.05	8.44	20.12	20.79	21.15	21.81	23.20
	8H	5.43	6.06	6.46	7.11	8.49	20.23	20.87	21.27	21.91	23.29
	12H	5.45	6.05	6.49	7.09	8.49	20.30	20.90	21.34	21.94	23.34
4H	2H	11.30	12.02	12.32	13.04	14.41	17.52	18.24	18.54	19.27	20.64
	3H	12.86	13.47	13.90	14.52	15.91	19.55	20.15	20.58	21.21	22.59
	4H	12.96	13.51	14.00	14.56	15.96	20.31	20.86	21.35	21.90	23.31
	6H	12.97	13.45	14.02	14.51	15.92	20.83	21.31	21.88	22.38	23.78
	8H	12.95	13.39	14.00	14.45	15.87	20.99	21.43	22.04	22.49	23.91
	12H	12.90	13.31	13.97	14.38	15.81	21.07	21.48	22.14	22.55	23.97
8H	4H	14.39	14.84	15.44	15.90	17.32	20.37	20.81	21.42	21.87	23.29
	6H	14.63	15.00	15.71	16.11	17.52	20.98	21.35	22.06	22.45	23.87
	8H	14.65	14.98	15.74	16.06	17.50	21.19	21.52	22.28	22.60	24.04
	12H	14.62	14.91	15.71	15.99	17.46	21.33	21.62	22.42	22.70	24.17
12H	4H	14.53	14.94	15.60	16.01	17.43	20.32	20.72	21.39	21.80	23.22
	6H	14.89	15.22	15.97	16.30	17.74	20.96	21.29	22.05	22.38	23.81
	8H	14.96	15.24	16.05	16.32	17.80	21.19	21.47	22.27	22.55	24.03