

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: P937932

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937932
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

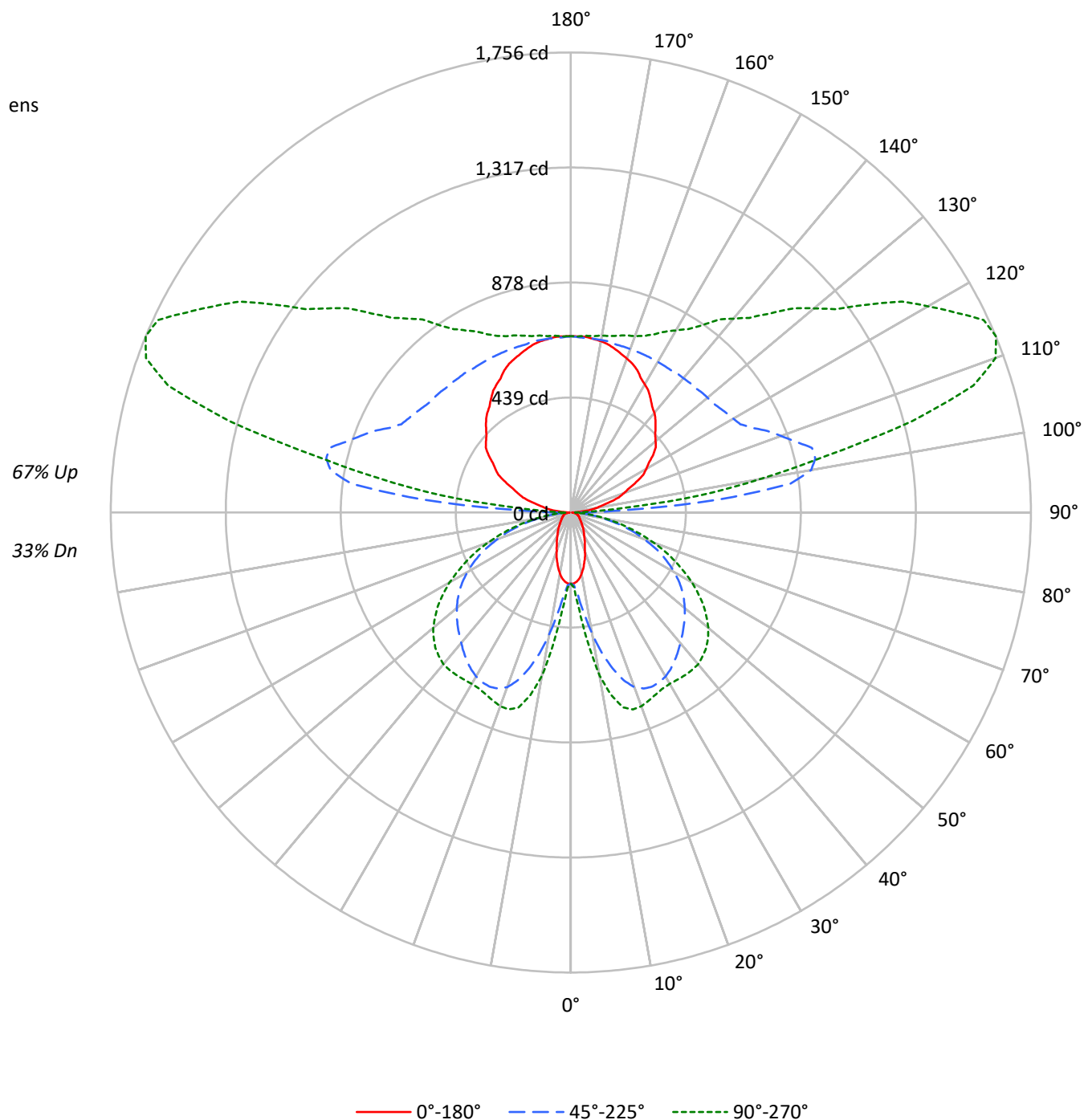
Lumens per Lamp: N/A
Luminaire Lumens: 6461.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.6
Input Voltage (V): NR
Input Current (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: P937932

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2517	2517	2517
5°	2456	2907	3383
10°	2225	4233	5608
15°	1889	5527	6771
20°	1536	6400	6901
25°	1279	6693	6761
30°	1077	6730	6748
35°	952	6613	6923
40°	828	6462	7103
45°	748	6350	7131
50°	684	6248	7013
55°	654	6101	6702
60°	667	5826	6211
65°	690	5410	5536
70°	731	4708	4677
75°	800	3828	3650
80°	856	2647	2459
85°	720	1396	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7131 cd/sqm

TEST NUMBER: P937932

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	0.5
10°-20°	155.5	2.4
20°-30°	272.0	4.2
30°-40°	350.1	5.4
40°-50°	391.0	6.1
50°-60°	374.5	5.8
60°-70°	296.8	4.6
70°-80°	174.5	2.7
80°-90°	51.1	0.8
90°-100°	327.9	5.1
100°-110°	862.1	13.3
110°-120°	893.9	13.8
120°-130°	717.0	11.1
130°-140°	562.6	8.7
140°-150°	431.8	6.7
150°-160°	311.0	4.8
160°-170°	190.3	2.9
170°-180°	64.3	1.0
0°-30°	462.5	7.2
0°-40°	812.6	12.6
0°-60°	1578.2	24.4
0°-90°	2100.6	32.5
90°-120°	2084.0	32.3
90°-150°	3795.5	58.7
90°-180°	4361.0	67.5
0°-180°	6461.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	271	271	271	271	271	
5°	264	283	319	361	374	24
15°	198	365	616	746	770	55
25°	126	414	733	766	766	58
35°	86	396	691	730	759	53
45°	58	316	610	699	731	45
55°	42	201	518	602	618	38
65°	33	106	385	432	439	33
75°	24	65	211	232	233	26
85°	9	20	52	58	58	9
90°	4	13	34	17	17	4
95°	43	170	565	291	198	48
105°	155	235	953	1447	1350	165
115°	276	335	764	1523	1738	272
125°	384	430	694	1173	1384	341
135°	457	503	673	947	1074	354
145°	530	564	664	808	871	332
155°	600	616	664	729	750	276
165°	647	656	664	690	699	183
175°	673	673	669	677	677	64
180°	673	673	673	673	673	

TEST NUMBER: P937932

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	271.2	271.2	272.9	273.8	275.6	276.4	278.2	279.9	285.2	286.0	287.8
5°	264.2	267.7	279.1	283.4	295.6	312.2	319.2	330.5	354.0	361.0	365.4
7.5°	253.8	261.6	289.5	296.5	327.0	370.6	388.9	413.3	450.8	469.2	484.0
10°	237.2	253.8	303.5	320.0	369.7	436.0	470.0	504.0	560.7	586.0	595.6
12.5°	218.9	245.9	318.3	341.0	412.5	509.3	550.3	587.8	652.3	686.3	691.5
15°	198.0	234.6	332.2	365.4	457.8	570.3	615.7	661.9	722.0	746.5	752.6
17.5°	179.6	225.9	345.3	380.2	492.7	625.2	671.5	709.8	758.7	775.2	779.6
20°	157.0	211.9	354.0	399.4	529.3	665.4	709.8	739.5	772.6	783.1	784.8
22.5°	140.4	197.1	359.3	406.4	553.7	689.8	727.3	750.8	773.5	777.0	777.9
25°	126.4	180.5	358.4	414.2	574.7	704.6	733.4	750.8	763.9	765.6	765.6
27.5°	113.4	162.2	354.9	416.0	590.4	708.1	730.8	743.0	749.1	752.6	752.6
30°	102.0	144.8	346.2	412.5	597.3	704.6	722.9	729.0	735.1	740.4	743.0
32.5°	93.3	128.2	333.1	405.5	598.2	695.9	709.0	712.5	721.2	733.4	737.7
35°	85.5	111.6	318.3	395.9	593.0	681.9	690.7	694.1	711.6	729.9	736.0
37.5°	77.6	99.4	299.1	379.3	585.1	665.4	671.5	677.6	704.6	726.4	733.4
40°	69.8	88.9	276.4	361.0	572.9	645.3	650.5	660.1	695.9	721.2	728.1
42.5°	63.7	80.2	252.0	341.8	557.2	622.6	630.5	644.4	685.4	712.5	720.3
45°	58.4	71.5	225.9	315.7	537.2	599.1	610.4	629.6	673.2	699.4	706.3
47.5°	53.2	65.4	198.8	288.6	515.4	575.5	590.4	612.2	656.6	681.9	688.0
50°	48.8	59.3	171.8	259.9	491.8	550.3	567.7	590.4	635.7	659.3	667.1
52.5°	45.3	54.1	146.5	231.1	464.8	524.1	544.1	567.7	610.4	633.1	638.3
55°	41.9	49.7	124.7	200.6	436.9	496.2	518.0	540.7	582.5	601.7	605.2
57.5°	40.1	46.2	106.4	171.8	407.2	464.8	489.2	510.1	549.4	564.2	567.7
60°	37.5	43.6	92.4	147.4	375.0	435.1	456.1	477.0	510.1	522.3	525.0
62.5°	34.9	41.9	82.0	123.8	341.8	400.3	421.2	440.4	468.3	477.0	480.5
65°	33.1	40.1	74.1	106.4	307.8	363.6	384.6	401.1	423.8	432.5	434.3
67.5°	31.4	38.4	68.0	91.6	273.8	327.0	342.7	358.4	375.8	384.6	385.4
70°	28.8	36.6	62.8	81.1	238.9	285.2	298.2	314.8	328.8	333.1	335.7
72.5°	27.0	34.0	59.3	73.3	203.2	245.0	257.3	266.8	279.1	283.4	283.4
75°	24.4	30.5	55.8	65.4	166.6	200.6	211.0	220.6	230.2	232.0	229.3
77.5°	21.8	27.0	48.0	54.9	129.9	158.7	167.4	172.7	180.5	182.3	183.1
80°	18.3	23.5	37.5	42.7	94.2	116.9	123.0	127.3	134.3	134.3	136.0
82.5°	14.0	18.3	27.0	30.5	63.7	80.2	85.5	88.1	92.4	92.4	92.4
85°	8.7	11.3	17.4	20.1	38.4	48.8	52.3	53.2	56.7	57.6	57.6
87.5°	4.4	6.1	11.3	12.2	20.1	25.3	25.3	27.0	27.0	26.2	25.3
90°	4.5	8.1	11.8	12.6	19.9	29.5	34.3	30.4	22.8	17.2	17.2
92.5°	18.1	48.7	79.4	87.1	122.5	169.7	193.2	169.3	121.6	85.8	82.4
95°	43.3	99.5	155.7	169.8	301.5	477.0	564.8	504.0	382.5	291.3	280.9
97.5°	74.9	124.4	174.1	186.4	406.0	698.8	845.2	806.7	729.9	672.3	652.6
100°	99.3	144.3	189.2	200.5	444.1	769.0	931.4	934.2	939.9	944.1	920.6
102.5°	120.1	162.0	204.0	214.4	461.6	791.1	955.8	1004.8	1102.8	1176.2	1156.1
105°	155.3	190.9	226.4	235.3	474.6	793.6	953.1	1062.9	1282.4	1447.1	1436.2
107.5°	191.4	224.5	257.7	266.0	477.0	758.3	899.0	1052.1	1358.3	1587.9	1590.5
110°	215.8	245.7	275.6	283.1	473.3	727.0	853.8	1025.0	1367.3	1624.1	1635.3

TEST NUMBER: P937932

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	239.7	268.2	296.7	303.8	473.4	699.6	812.7	987.9	1338.3	1601.1	1618.3
115°	275.8	302.2	328.5	335.0	477.9	668.2	763.5	932.2	1269.8	1522.9	1546.8
117.5°	311.6	335.5	359.4	365.3	486.8	648.7	729.6	881.9	1186.5	1415.0	1441.5
120°	332.3	354.8	377.3	382.9	494.0	642.1	716.1	855.3	1133.6	1342.3	1368.1
122.5°	352.7	375.3	398.0	403.7	504.4	638.6	705.7	831.0	1081.7	1269.6	1295.1
125°	383.8	404.4	425.1	430.3	518.3	635.7	694.4	800.9	1013.7	1173.4	1196.9
127.5°	409.1	429.9	450.8	456.0	532.3	634.1	684.9	776.3	959.2	1096.2	1116.0
130°	422.6	445.1	467.6	473.2	542.6	635.1	681.3	762.7	925.4	1047.5	1065.7
132.5°	436.6	459.1	481.6	487.2	550.9	635.7	678.2	751.0	896.7	1006.0	1022.3
135°	457.4	477.9	498.3	503.4	559.8	635.1	672.8	733.8	855.8	947.3	961.4
137.5°	478.6	498.8	519.1	524.2	573.4	639.0	671.8	723.4	826.5	903.9	915.4
140°	496.2	514.8	533.5	538.2	581.7	639.7	668.7	713.2	802.4	869.2	880.0
142.5°	509.7	527.0	544.2	548.6	588.6	642.0	668.7	707.8	786.1	844.7	854.0
145°	530.5	545.5	560.6	564.4	597.6	642.0	664.1	696.1	760.2	808.2	815.3
147.5°	551.3	566.0	580.6	584.3	610.9	646.4	664.1	689.3	739.7	777.5	783.3
150°	564.8	578.1	591.3	594.6	617.8	648.7	664.1	685.4	728.0	759.9	764.6
152.5°	578.9	588.9	598.9	601.4	622.4	650.2	664.1	682.3	718.6	745.9	749.4
155°	599.6	607.0	614.4	616.3	632.2	653.5	664.1	678.6	707.5	729.2	731.5
157.5°	615.0	622.2	629.3	631.2	642.2	656.8	664.1	675.4	697.9	714.7	716.4
160°	625.3	630.9	636.6	638.0	646.7	658.3	664.1	673.7	693.0	707.5	708.4
162.5°	635.7	639.9	644.2	645.2	651.5	660.0	664.1	672.3	688.6	700.8	701.6
165°	647.0	650.8	654.6	655.6	658.5	662.2	664.1	670.0	681.6	690.3	691.3
167.5°	657.4	659.2	661.0	661.4	663.9	667.1	668.7	672.5	680.1	685.9	686.3
170°	664.1	666.0	667.8	668.2	668.4	668.6	668.7	672.5	680.1	685.9	685.9
172.5°	667.8	668.2	668.6	668.7	668.7	668.7	668.7	671.6	677.7	682.2	681.8
175°	672.8	672.8	672.8	672.8	671.4	669.5	668.7	670.6	674.3	677.2	677.2
177.5°	672.8	672.8	672.8	672.8	671.7	670.2	669.5	671.0	674.1	676.3	675.9
180°	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8

TEST NUMBER: P937932

CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	271.2	271.2
2.5°	289.5	287.8
5°	372.4	374.1
7.5°	501.4	500.5
10°	623.5	631.4
12.5°	712.5	714.2
15°	766.5	770.0
17.5°	787.4	788.3
20°	788.3	786.6
22.5°	778.7	777.0
25°	767.4	766.5
27.5°	756.9	757.8
30°	752.6	755.2
32.5°	752.6	756.9
35°	754.3	758.7
37.5°	753.4	758.7
40°	749.9	756.1
42.5°	740.4	744.7
45°	725.5	730.8
47.5°	706.3	709.8
50°	681.9	685.4
52.5°	651.4	652.3
55°	614.8	618.3
57.5°	575.5	576.4
60°	531.9	534.6
62.5°	485.7	485.7
65°	436.9	438.6
67.5°	386.3	390.7
70°	334.9	335.7
72.5°	284.3	284.3
75°	232.0	232.8
77.5°	182.3	182.3
80°	135.2	136.0
82.5°	93.3	95.1
85°	58.4	58.4
87.5°	27.0	24.4
90°	17.2	17.2
92.5°	68.7	55.1
95°	239.5	198.2
97.5°	574.0	495.3
100°	826.9	733.2
102.5°	1075.8	995.6
105°	1393.2	1350.0
107.5°	1601.0	1611.4
110°	1680.2	1725.1

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CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1687.3	1756.4
115°	1642.6	1738.3
117.5°	1547.7	1653.8
120°	1471.2	1574.4
122.5°	1396.7	1498.5
125°	1290.5	1384.3
127.5°	1195.0	1274.1
130°	1138.8	1211.9
132.5°	1087.7	1153.1
135°	1017.8	1074.1
137.5°	961.6	1007.7
140°	923.0	966.2
142.5°	891.1	928.3
145°	843.3	871.4
147.5°	806.5	829.8
150°	783.5	802.4
152.5°	763.6	777.9
155°	741.0	750.4
157.5°	723.0	729.6
160°	712.3	716.1
162.5°	705.3	708.9
165°	695.1	698.9
167.5°	687.9	689.4
170°	685.9	685.9
172.5°	680.4	679.1
175°	677.2	677.2
177.5°	674.3	672.8
180°	672.8	672.8

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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	2.34	3.08	3.42	4.17	5.67	15.47	16.22	16.56	17.31	18.81
	3H	3.03	3.70	4.13	4.80	6.32	17.29	17.96	18.39	19.06	20.57
	4H	3.33	3.96	4.43	5.06	6.58	17.92	18.55	19.03	19.65	21.18
	6H	3.57	4.15	4.69	5.26	6.79	18.33	18.92	19.45	20.02	21.55
	8H	3.63	4.19	4.75	5.31	6.84	18.44	19.00	19.56	20.12	21.65
	12H	3.65	4.18	4.77	5.29	6.84	18.50	19.03	19.62	20.14	21.69
4H	2H	9.51	10.15	10.63	11.25	12.77	15.74	16.37	16.85	17.47	18.99
	3H	11.07	11.60	12.19	12.73	14.26	17.76	18.29	18.88	19.41	20.95
	4H	11.16	11.65	12.29	12.77	14.32	18.51	19.00	19.63	20.11	21.67
	6H	11.16	11.58	12.30	12.72	14.27	19.03	19.45	20.16	20.59	22.13
	8H	11.14	11.53	12.27	12.66	14.22	19.18	19.57	20.31	20.70	22.26
	12H	11.09	11.45	12.24	12.59	14.16	19.26	19.61	20.41	20.76	22.32
8H	4H	12.58	12.98	13.72	14.11	15.67	18.56	18.95	19.69	20.08	21.64
	6H	12.82	13.15	13.98	14.32	15.88	19.17	19.49	20.32	20.67	22.23
	8H	12.84	13.12	14.00	14.27	15.85	19.38	19.66	20.54	20.82	22.40
	12H	12.80	13.05	13.97	14.20	15.81	19.51	19.76	20.67	20.91	22.52
12H	4H	12.72	13.07	13.87	14.22	15.79	18.50	18.86	19.65	20.00	21.57
	6H	13.08	13.36	14.23	14.51	16.09	19.15	19.43	20.31	20.59	22.17
	8H	13.14	13.39	14.30	14.54	16.15	19.37	19.62	20.53	20.77	22.38