

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: P937239

Luminaire Tested: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937239
REPORT IS A COMBINATION OF REPORTS P933511 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

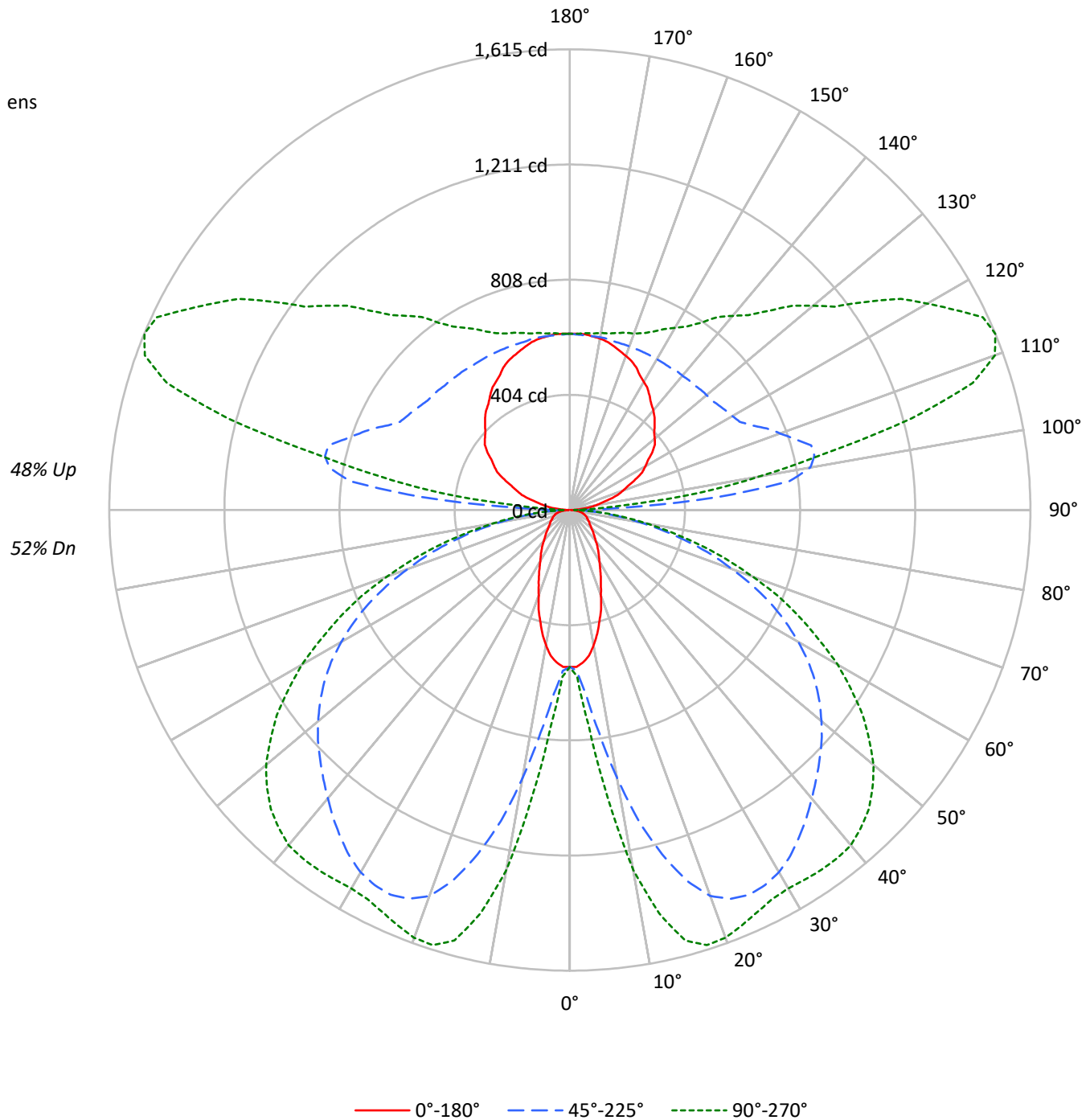
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8267.5 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 76.8
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: P937239
CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P937239

CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	93	89	85	90	86	82	79	73	70	68	61	59	57	50	49	47	42
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39	34
3	80	70	62	56	74	65	58	53	55	50	46	46	42	39	38	35	32	28
4	73	62	53	47	67	57	50	44	49	43	38	41	36	33	33	30	27	24
5	67	55	46	40	61	51	43	37	43	37	33	36	32	28	30	26	23	20
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	27	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24	29	25	21	24	20	18	15
8	52	39	31	26	48	37	29	24	31	26	21	27	22	19	22	18	16	13
9	49	36	28	23	45	33	26	22	29	23	19	24	20	16	20	17	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3403	3403	3403
5°	3324	3932	4575
10°	3013	5731	7584
15°	2561	7486	9158
20°	2083	8673	9333
25°	1737	9073	9143
30°	1465	9128	9126
35°	1294	8975	9363
40°	1127	8774	9606
45°	1020	8628	9644
50°	935	8496	9484
55°	894	8302	9063
60°	915	7934	8400
65°	950	7376	7488
70°	1010	6428	6326
75°	1114	5237	4936
80°	1208	3627	3327
85°	1055	1920	1702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9644 cd/sqm



TEST NUMBER: P937239

CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	0.9
10°-20°	315.4	3.8
20°-30°	551.7	6.7
30°-40°	710.2	8.6
40°-50°	793.3	9.6
50°-60°	759.8	9.2
60°-70°	602.1	7.3
70°-80°	354.1	4.3
80°-90°	100.7	1.2
90°-100°	301.4	3.6
100°-110°	792.6	9.6
110°-120°	821.8	9.9
120°-130°	659.2	8.0
130°-140°	517.2	6.3
140°-150°	397.0	4.8
150°-160°	285.9	3.5
160°-170°	174.9	2.1
170°-180°	59.1	0.7
0°-30°	938.3	11.3
0°-40°	1648.5	19.9
0°-60°	3201.5	38.7
0°-90°	4258.4	51.5
90°-120°	1915.8	23.2
90°-150°	3489.2	42.2
90°-180°	4009.0	48.5
0°-180°	8267.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	536	575	647	732	759	49
15°	402	741	1249	1514	1562	112
25°	256	840	1488	1553	1555	118
35°	173	803	1401	1481	1539	108
45°	118	640	1238	1419	1482	92
55°	85	407	1051	1221	1254	77
65°	67	216	780	877	890	67
75°	50	133	428	471	472	52
85°	18	41	106	117	118	19
90°	4	12	32	16	16	5
95°	40	156	519	268	182	44
105°	143	216	876	1330	1241	151
115°	254	308	702	1400	1598	250
125°	353	396	638	1079	1273	313
135°	420	463	618	871	987	325
145°	488	519	611	743	801	306
155°	551	566	611	670	690	253
165°	595	603	611	635	642	168
175°	618	618	615	623	623	59
180°	618	618	618	618	618	



TEST NUMBER: P937239

CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1
2.5°	550.1	550.1	553.7	555.5	559.0	560.7	564.3	567.9	578.4	580.2	583.8
5°	536.0	543.1	566.1	574.9	599.7	633.3	647.4	670.4	718.2	732.4	741.2
7.5°	514.8	530.7	587.3	601.4	663.4	751.9	789.0	838.5	914.6	951.7	981.8
10°	481.1	514.8	615.6	649.2	750.1	884.5	953.5	1022.5	1137.5	1188.8	1208.3
12.5°	444.0	498.9	645.7	691.7	836.7	1033.1	1116.2	1192.3	1323.2	1392.2	1402.8
15°	401.6	475.9	674.0	741.2	928.7	1156.9	1249.0	1342.7	1464.7	1514.2	1526.6
17.5°	364.5	458.2	700.5	771.3	999.5	1268.4	1362.1	1440.0	1539.1	1572.6	1581.5
20°	318.4	429.9	718.2	810.2	1073.8	1349.7	1440.0	1500.1	1567.4	1588.6	1592.1
22.5°	284.8	399.8	728.8	824.3	1123.3	1399.3	1475.3	1523.1	1569.1	1576.2	1578.0
25°	256.5	366.2	727.0	840.3	1165.8	1429.4	1487.7	1523.1	1549.7	1553.2	1553.2
27.5°	229.9	329.0	720.0	843.8	1197.6	1436.4	1482.4	1507.2	1519.6	1526.6	1526.6
30°	207.0	293.7	702.3	836.7	1211.7	1429.4	1466.5	1478.9	1491.3	1501.8	1507.2
32.5°	189.3	260.0	675.7	822.5	1213.5	1411.7	1438.2	1445.2	1462.9	1487.7	1496.6
35°	173.3	226.5	645.7	803.1	1202.9	1383.4	1401.1	1408.1	1443.5	1480.7	1493.0
37.5°	157.5	201.6	606.8	769.5	1187.0	1349.7	1362.1	1374.5	1429.4	1473.5	1487.7
40°	141.5	180.4	560.7	732.4	1162.2	1309.0	1319.6	1339.1	1411.7	1462.9	1477.1
42.5°	129.2	162.7	511.2	693.5	1130.4	1263.1	1278.9	1307.2	1390.4	1445.2	1461.2
45°	118.5	145.1	458.2	640.4	1089.7	1215.3	1238.3	1277.2	1365.6	1418.7	1432.9
47.5°	107.9	132.6	403.4	585.6	1045.4	1167.5	1197.6	1241.8	1332.1	1383.4	1395.7
50°	99.1	120.3	348.5	527.2	997.7	1116.2	1151.7	1197.6	1289.6	1337.3	1353.3
52.5°	92.0	109.7	297.2	468.8	942.9	1063.2	1103.8	1151.7	1238.3	1284.3	1294.9
55°	84.9	100.9	253.0	406.9	886.3	1006.5	1050.8	1096.8	1181.7	1220.6	1227.7
57.5°	81.4	93.7	215.8	348.5	826.1	942.9	992.4	1034.9	1114.4	1144.5	1151.7
60°	76.1	88.5	187.5	298.9	760.7	882.7	925.2	967.6	1034.9	1059.6	1064.9
62.5°	70.8	84.9	166.3	251.2	693.5	811.9	854.4	893.3	949.9	967.6	974.7
65°	67.2	81.4	150.4	215.8	624.5	737.7	780.1	813.7	859.8	877.4	880.9
67.5°	63.6	77.8	138.0	185.8	555.5	663.4	695.2	727.0	762.5	780.1	781.9
70°	58.4	74.3	127.4	164.5	484.7	578.4	605.0	638.6	666.9	675.7	681.1
72.5°	54.8	69.0	120.3	148.6	412.2	497.1	521.8	541.3	566.1	574.9	574.9
75°	49.5	61.9	113.2	132.6	337.9	406.9	428.1	447.6	467.0	470.6	465.2
77.5°	44.2	54.8	97.3	111.5	263.6	322.0	339.6	350.3	366.2	369.7	371.5
80°	37.1	47.8	76.1	86.7	191.0	237.1	249.4	258.2	272.4	272.4	276.0
82.5°	28.3	37.1	54.8	61.9	129.2	162.7	173.3	178.7	187.5	187.5	187.5
85°	17.7	23.0	35.3	40.7	77.8	99.1	106.1	107.9	115.0	116.8	116.8
87.5°	8.8	12.4	23.0	24.7	40.7	51.3	51.3	54.8	54.8	53.1	51.3
90°	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1	15.8	15.8
92.5°	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8	78.8	75.7
95°	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5	267.7	258.2
97.5°	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1	618.1	599.9
100°	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1	867.9	846.4
102.5°	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7	1081.2	1062.8
105°	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9	1330.3	1320.4
107.5°	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7	1459.8	1462.2
110°	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0	1493.0	1503.4



TEST NUMBER: P937239

CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2	1471.8	1487.6
115°	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3	1400.0	1421.9
117.5°	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8	1300.8	1325.2
120°	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0	1234.0	1257.7
122.5°	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3	1167.1	1190.5
125°	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0	1078.7	1100.2
127.5°	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7	1007.8	1026.0
130°	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8	963.0	979.7
132.5°	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3	924.8	939.8
135°	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7	870.8	883.7
137.5°	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8	830.9	841.6
140°	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6	799.0	808.9
142.5°	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6	776.6	785.1
145°	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8	742.9	749.4
147.5°	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0	714.7	720.1
150°	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2	698.6	702.9
152.5°	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6	685.7	689.0
155°	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5	670.4	672.5
157.5°	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5	657.1	658.6
160°	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1	650.4	651.3
162.5°	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0	644.2	645.0
165°	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6	634.7	635.5
167.5°	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2	630.5	630.8
170°	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2	630.5	630.5
172.5°	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0	627.2	626.8
175°	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9	622.6	622.6
177.5°	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7	621.8	621.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



TEST NUMBER: P937239

CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	550.1	550.1
2.5°	587.3	583.8
5°	755.3	758.9
7.5°	1017.1	1015.4
10°	1264.8	1280.7
12.5°	1445.2	1448.8
15°	1554.9	1562.0
17.5°	1597.4	1599.1
20°	1599.1	1595.6
22.5°	1579.7	1576.2
25°	1556.7	1554.9
27.5°	1535.5	1537.3
30°	1526.6	1531.9
32.5°	1526.6	1535.5
35°	1530.2	1539.1
37.5°	1528.4	1539.1
40°	1521.3	1533.7
42.5°	1501.8	1510.8
45°	1471.8	1482.4
47.5°	1432.9	1440.0
50°	1383.4	1390.4
52.5°	1321.4	1323.2
55°	1247.2	1254.2
57.5°	1167.5	1169.3
60°	1079.1	1084.4
62.5°	985.4	985.4
65°	886.3	889.8
67.5°	783.6	792.5
70°	679.3	681.1
72.5°	576.7	576.7
75°	470.6	472.3
77.5°	369.7	369.7
80°	274.2	276.0
82.5°	189.3	192.8
85°	118.5	118.5
87.5°	54.8	49.5
90°	15.8	15.8
92.5°	63.1	50.6
95°	220.2	182.2
97.5°	527.6	455.3
100°	760.2	674.0
102.5°	989.0	915.2
105°	1280.6	1241.0
107.5°	1471.8	1481.3
110°	1544.6	1585.9



TEST NUMBER: P937239

CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1551.1	1614.6
115°	1510.0	1598.0
117.5°	1422.7	1520.3
120°	1352.5	1447.3
122.5°	1284.0	1377.6
125°	1186.5	1272.6
127.5°	1098.6	1171.3
130°	1046.9	1114.0
132.5°	999.9	1060.1
135°	935.6	987.4
137.5°	884.0	926.5
140°	848.6	888.2
142.5°	819.2	853.3
145°	775.2	801.0
147.5°	741.4	762.8
150°	720.3	737.6
152.5°	702.0	715.2
155°	681.2	689.8
157.5°	664.6	670.7
160°	654.7	658.3
162.5°	648.3	651.6
165°	639.0	642.5
167.5°	632.3	633.8
170°	630.5	630.5
172.5°	625.5	624.2
175°	622.6	622.6
177.5°	619.9	618.4
180°	618.4	618.4



TEST NUMBER: P937239
 CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3500K

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	5.39	6.31	6.33	7.27	8.51	18.56	19.47	19.49	20.43	21.68
	3H	6.10	6.92	7.05	7.89	9.16	20.40	21.22	21.34	22.19	23.46
	4H	6.40	7.18	7.36	8.15	9.43	21.04	21.82	22.00	22.79	24.07
	6H	6.66	7.38	7.63	8.35	9.64	21.47	22.19	22.44	23.17	24.46
	8H	6.73	7.41	7.70	8.41	9.69	21.59	22.28	22.57	23.27	24.56
	12H	6.74	7.40	7.73	8.39	9.70	21.66	22.31	22.64	23.30	24.61
4H	2H	12.61	13.39	13.57	14.36	15.64	18.84	19.62	19.81	20.59	21.87
	3H	14.18	14.83	15.16	15.83	17.13	20.88	21.54	21.86	22.54	23.83
	4H	14.28	14.87	15.26	15.87	17.18	21.65	22.25	22.64	23.24	24.56
	6H	14.29	14.81	15.29	15.83	17.14	22.19	22.71	23.19	23.72	25.04
	8H	14.27	14.75	15.27	15.76	17.09	22.35	22.83	23.35	23.84	25.17
	12H	14.23	14.67	15.25	15.69	17.03	22.44	22.88	23.46	23.91	25.24
8H	4H	15.72	16.21	16.72	17.22	18.55	21.72	22.20	22.72	23.21	24.54
	6H	15.97	16.37	16.99	17.42	18.75	22.34	22.74	23.37	23.80	25.12
	8H	15.99	16.34	17.02	17.38	18.72	22.56	22.91	23.60	23.95	25.30
	12H	15.96	16.27	17.00	17.30	18.69	22.71	23.02	23.74	24.05	25.44
12H	4H	15.87	16.30	16.89	17.33	18.67	21.67	22.11	22.69	23.14	24.47
	6H	16.23	16.58	17.26	17.62	18.96	22.33	22.68	23.36	23.72	25.07
	8H	16.30	16.61	17.34	17.64	19.03	22.56	22.87	23.60	23.90	25.29