

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: P937241

Luminaire Tested: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937241
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-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

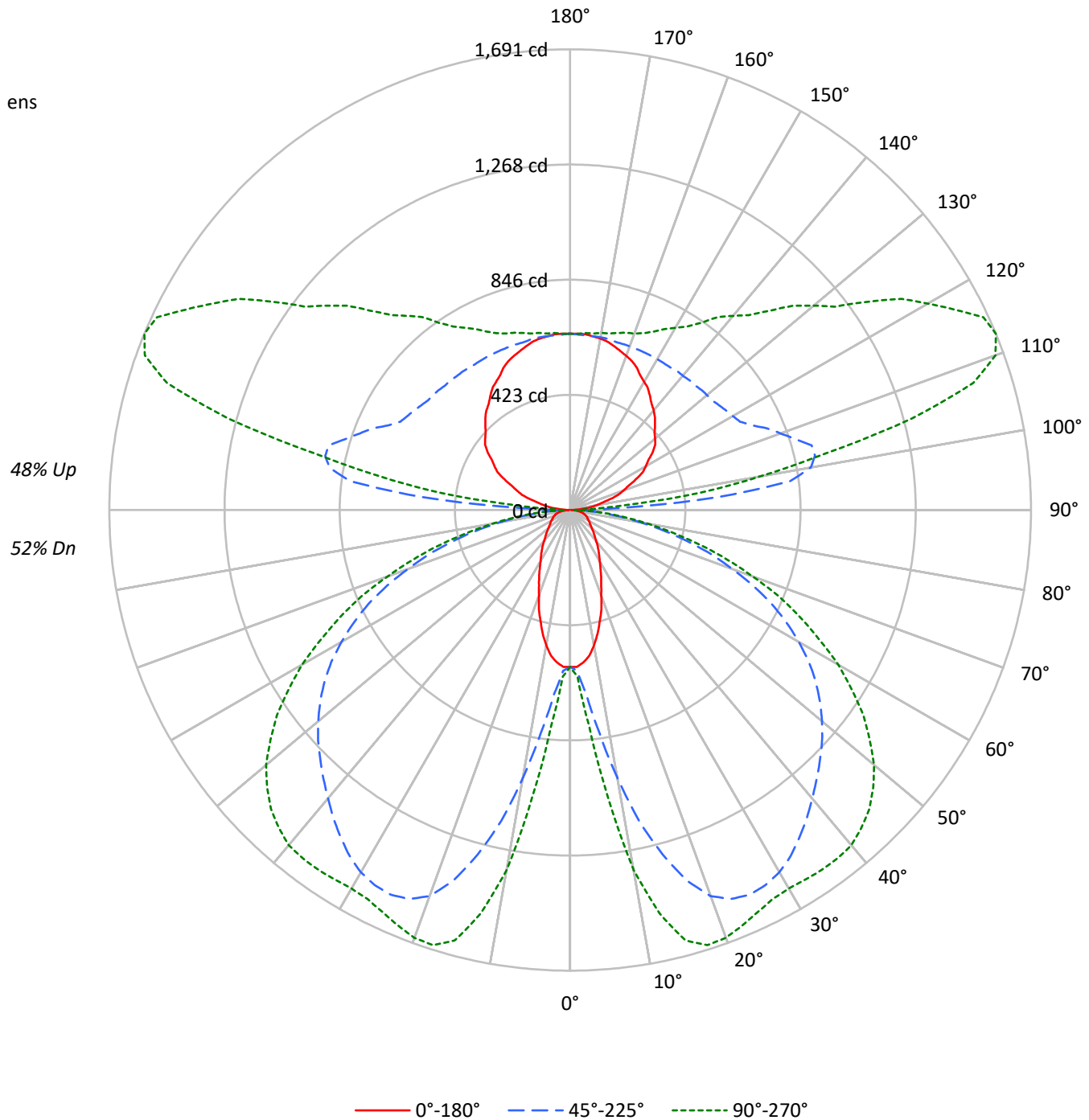
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8657.3 lumens
Efficiency: N/A
Efficacy: 112.7 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: P937241
CATALOG NUMBER: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-5000K

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
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°	3564	3564	3564
5°	3480	4118	4790
10°	3155	6002	7941
15°	2681	7839	9589
20°	2182	9082	9773
25°	1819	9501	9575
30°	1534	9558	9556
35°	1355	9397	9804
40°	1180	9189	10059
45°	1068	9035	10098
50°	980	8896	9931
55°	937	8693	9491
60°	957	8308	8796
65°	995	7724	7840
70°	1057	6731	6624
75°	1168	5484	5169
80°	1266	3799	3483
85°	1103	2011	1783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	0.9
10°-20°	330.3	3.8
20°-30°	577.7	6.7
30°-40°	743.7	8.6
40°-50°	830.7	9.6
50°-60°	795.6	9.2
60°-70°	630.5	7.3
70°-80°	370.8	4.3
80°-90°	105.5	1.2
90°-100°	315.7	3.6
100°-110°	829.9	9.6
110°-120°	860.5	9.9
120°-130°	690.3	8.0
130°-140°	541.6	6.3
140°-150°	415.7	4.8
150°-160°	299.4	3.5
160°-170°	183.2	2.1
170°-180°	61.9	0.7
0°-30°	982.5	11.3
0°-40°	1726.2	19.9
0°-60°	3352.4	38.7
0°-90°	4459.2	51.5
90°-120°	2006.1	23.2
90°-150°	3653.7	42.2
90°-180°	4198.0	48.5
0°-180°	8657.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	561	602	678	767	795	52
15°	420	776	1308	1586	1636	117
25°	269	880	1558	1626	1628	124
35°	182	841	1467	1550	1612	113
45°	124	671	1297	1486	1552	96
55°	89	426	1100	1278	1313	81
65°	70	226	817	919	932	70
75°	52	139	448	493	495	54
85°	18	43	111	122	124	20
90°	4	12	33	16	16	5
95°	42	163	544	280	191	46
105°	150	226	918	1393	1300	159
115°	266	322	735	1466	1673	262
125°	369	414	668	1130	1333	328
135°	440	485	648	912	1034	341
145°	511	543	639	778	839	320
155°	577	593	639	702	722	265
165°	623	631	639	665	673	176
175°	648	648	644	652	652	61
180°	648	648	648	648	648	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1
2.5°	576.1	576.1	579.8	581.7	585.3	587.2	590.9	594.7	605.7	607.6	611.3
5°	561.3	568.7	592.8	602.0	627.9	663.2	677.9	702.1	752.1	766.9	776.2
7.5°	539.0	555.7	615.0	629.8	694.7	787.3	826.2	878.1	957.7	996.6	1028.1
10°	503.8	539.0	644.7	679.8	785.4	926.2	998.5	1070.7	1191.1	1244.8	1265.2
12.5°	464.9	522.4	676.2	724.3	876.2	1081.8	1168.8	1248.5	1385.6	1457.9	1469.0
15°	420.5	498.3	705.8	776.2	972.5	1211.5	1307.8	1406.0	1533.8	1585.6	1598.6
17.5°	381.6	479.8	733.6	807.7	1046.6	1328.2	1426.4	1507.9	1611.6	1646.8	1656.0
20°	333.4	450.2	752.1	848.4	1124.5	1413.4	1507.9	1570.9	1641.3	1663.5	1667.1
22.5°	298.3	418.7	763.2	863.2	1176.2	1465.2	1544.9	1594.9	1643.1	1650.5	1652.4
25°	268.6	383.4	761.3	879.9	1220.7	1496.7	1557.9	1594.9	1622.7	1626.4	1626.4
27.5°	240.8	344.5	753.9	883.6	1254.1	1504.1	1552.3	1578.3	1591.2	1598.6	1598.6
30°	216.8	307.5	735.4	876.2	1268.9	1496.7	1535.6	1548.6	1561.6	1572.6	1578.3
32.5°	198.3	272.3	707.6	861.3	1270.7	1478.2	1506.0	1513.4	1531.9	1557.9	1567.1
35°	181.5	237.1	676.2	841.0	1259.6	1448.6	1467.1	1474.5	1511.5	1550.5	1563.4
37.5°	164.9	211.2	635.4	805.8	1243.0	1413.4	1426.4	1439.4	1496.7	1543.0	1557.9
40°	148.2	188.9	587.2	766.9	1217.0	1370.7	1381.9	1402.2	1478.2	1531.9	1546.8
42.5°	135.3	170.4	535.3	726.2	1183.7	1322.6	1339.2	1368.9	1456.0	1513.4	1530.1
45°	124.1	151.9	479.8	670.6	1141.1	1272.6	1296.7	1337.5	1430.0	1485.6	1500.5
47.5°	113.0	138.9	422.4	613.2	1094.7	1222.6	1254.1	1300.4	1394.9	1448.6	1461.5
50°	103.8	126.0	364.9	552.0	1044.7	1168.8	1206.0	1254.1	1350.4	1400.4	1417.1
52.5°	96.4	114.9	311.2	490.9	987.3	1113.3	1155.9	1206.0	1296.7	1344.9	1356.0
55°	88.9	105.6	264.9	426.0	928.1	1054.0	1100.3	1148.5	1237.4	1278.1	1285.6
57.5°	85.2	98.1	226.0	364.9	865.1	987.3	1039.2	1083.7	1167.0	1198.5	1206.0
60°	79.6	92.6	196.4	313.0	796.6	924.3	968.8	1013.2	1083.7	1109.6	1115.1
62.5°	74.1	88.9	174.1	263.0	726.2	850.2	894.7	935.5	994.7	1013.2	1020.7
65°	70.4	85.2	157.5	226.0	653.9	772.4	816.9	852.1	900.3	918.8	922.5
67.5°	66.6	81.5	144.5	194.5	581.7	694.7	727.9	761.3	798.4	816.9	818.8
70°	61.1	77.8	133.4	172.3	507.5	605.7	633.5	668.7	698.3	707.6	713.2
72.5°	57.4	72.3	126.0	155.6	431.6	520.5	546.4	566.8	592.8	602.0	602.0
75°	51.9	64.9	118.5	138.9	353.8	426.0	448.3	468.7	489.0	492.8	487.2
77.5°	46.3	57.4	101.9	116.7	276.0	337.1	355.7	366.8	383.4	387.2	389.0
80°	38.9	50.0	79.6	90.8	200.0	248.3	261.2	270.4	285.3	285.3	289.0
82.5°	29.6	38.9	57.4	64.9	135.3	170.4	181.5	187.1	196.4	196.4	196.4
85°	18.5	24.1	37.0	42.6	81.5	103.8	111.1	113.0	120.4	122.3	122.3
87.5°	9.3	13.0	24.1	25.9	42.6	53.7	53.7	57.4	57.4	55.6	53.7
90°	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1	16.5	16.5
92.5°	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0	82.5	79.3
95°	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1	280.3	270.4
97.5°	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7	647.2	628.2
100°	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8	908.8	886.3
102.5°	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5	1132.2	1112.9
105°	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5	1393.0	1382.6
107.5°	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6	1528.6	1531.1
110°	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3	1563.4	1574.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2	1541.1	1557.8
115°	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3	1466.0	1489.0
117.5°	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2	1362.1	1387.7
120°	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2	1292.1	1317.0
122.5°	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2	1222.1	1246.6
125°	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9	1129.6	1152.1
127.5°	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3	1055.3	1074.4
130°	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9	1008.4	1025.9
132.5°	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2	968.4	984.1
135°	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8	911.8	925.4
137.5°	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6	870.1	881.2
140°	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3	836.7	847.0
142.5°	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6	813.2	822.2
145°	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8	778.0	784.7
147.5°	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1	748.4	754.0
150°	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7	731.5	736.1
152.5°	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8	718.0	721.5
155°	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1	702.0	704.2
157.5°	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8	688.0	689.6
160°	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1	681.0	682.0
162.5°	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8	674.6	675.4
165°	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2	664.6	665.5
167.5°	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7	660.2	660.6
170°	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7	660.2	660.2
172.5°	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3	656.7	656.4
175°	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2	652.0	652.0
177.5°	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0	651.1	650.7
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	576.1	576.1
2.5°	615.0	611.3
5°	790.9	794.7
7.5°	1065.1	1063.3
10°	1324.5	1341.1
12.5°	1513.4	1517.1
15°	1628.3	1635.6
17.5°	1672.7	1674.5
20°	1674.5	1670.9
22.5°	1654.1	1650.5
25°	1630.1	1628.3
27.5°	1607.9	1609.8
30°	1598.6	1604.1
32.5°	1598.6	1607.9
35°	1602.4	1611.6
37.5°	1600.5	1611.6
40°	1593.0	1606.0
42.5°	1572.6	1582.0
45°	1541.2	1552.3
47.5°	1500.5	1507.9
50°	1448.6	1456.0
52.5°	1383.7	1385.6
55°	1306.0	1313.4
57.5°	1222.6	1224.5
60°	1130.0	1135.5
62.5°	1031.8	1031.8
65°	928.1	931.7
67.5°	820.6	829.8
70°	711.3	713.2
72.5°	603.9	603.9
75°	492.8	494.6
77.5°	387.2	387.2
80°	287.1	289.0
82.5°	198.3	201.9
85°	124.1	124.1
87.5°	57.4	51.9
90°	16.5	16.5
92.5°	66.1	53.0
95°	230.6	190.8
97.5°	552.5	476.8
100°	796.0	705.8
102.5°	1035.7	958.4
105°	1341.0	1299.5
107.5°	1541.1	1551.1
110°	1617.4	1660.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1624.2	1690.7
115°	1581.1	1673.3
117.5°	1489.8	1592.0
120°	1416.3	1515.5
122.5°	1344.6	1442.5
125°	1242.4	1332.6
127.5°	1150.4	1226.5
130°	1096.2	1166.5
132.5°	1047.1	1110.1
135°	979.7	1034.0
137.5°	925.6	970.1
140°	888.6	930.1
142.5°	857.9	893.6
145°	811.8	838.8
147.5°	776.4	798.8
150°	754.2	772.3
152.5°	735.1	748.9
155°	713.3	722.3
157.5°	696.0	702.3
160°	685.6	689.3
162.5°	678.9	682.3
165°	669.2	672.8
167.5°	662.1	663.6
170°	660.2	660.2
172.5°	655.0	653.6
175°	652.0	652.0
177.5°	649.2	647.6
180°	647.6	647.6



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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	5.55	6.47	6.49	7.43	8.67	18.72	19.63	19.65	20.59	21.84
	3H	6.26	7.09	7.21	8.05	9.32	20.56	21.38	21.50	22.35	23.62
	4H	6.56	7.34	7.53	8.32	9.59	21.20	21.98	22.16	22.95	24.23
	6H	6.82	7.54	7.79	8.51	9.81	21.63	22.35	22.60	23.33	24.62
	8H	6.89	7.57	7.87	8.57	9.86	21.75	22.44	22.73	23.43	24.72
	12H	6.91	7.56	7.89	8.55	9.86	21.82	22.47	22.80	23.46	24.77
4H	2H	12.77	13.55	13.73	14.52	15.80	19.00	19.78	19.97	20.75	22.03
	3H	14.34	14.99	15.32	15.99	17.29	21.05	21.70	22.02	22.70	23.99
	4H	14.44	15.03	15.42	16.03	17.34	21.81	22.41	22.80	23.40	24.72
	6H	14.45	14.97	15.45	15.99	17.30	22.35	22.87	23.35	23.88	25.20
	8H	14.43	14.91	15.43	15.92	17.25	22.51	22.99	23.51	24.00	25.33
	12H	14.39	14.83	15.41	15.85	17.19	22.60	23.04	23.62	24.07	25.40
8H	4H	15.88	16.37	16.88	17.38	18.71	21.88	22.36	22.88	23.37	24.70
	6H	16.13	16.53	17.15	17.58	18.91	22.50	22.90	23.53	23.96	25.28
	8H	16.15	16.50	17.18	17.54	18.88	22.72	23.08	23.76	24.11	25.46
	12H	16.12	16.43	17.16	17.46	18.85	22.87	23.18	23.90	24.21	25.60
12H	4H	16.03	16.46	17.05	17.49	18.83	21.83	22.27	22.85	23.30	24.63
	6H	16.39	16.74	17.42	17.78	19.12	22.49	22.84	23.52	23.88	25.23
	8H	16.46	16.77	17.50	17.80	19.19	22.72	23.03	23.76	24.06	25.45