

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: P937338

Luminaire Tested: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937338
REPORT IS A COMBINATION OF REPORTS P933512 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

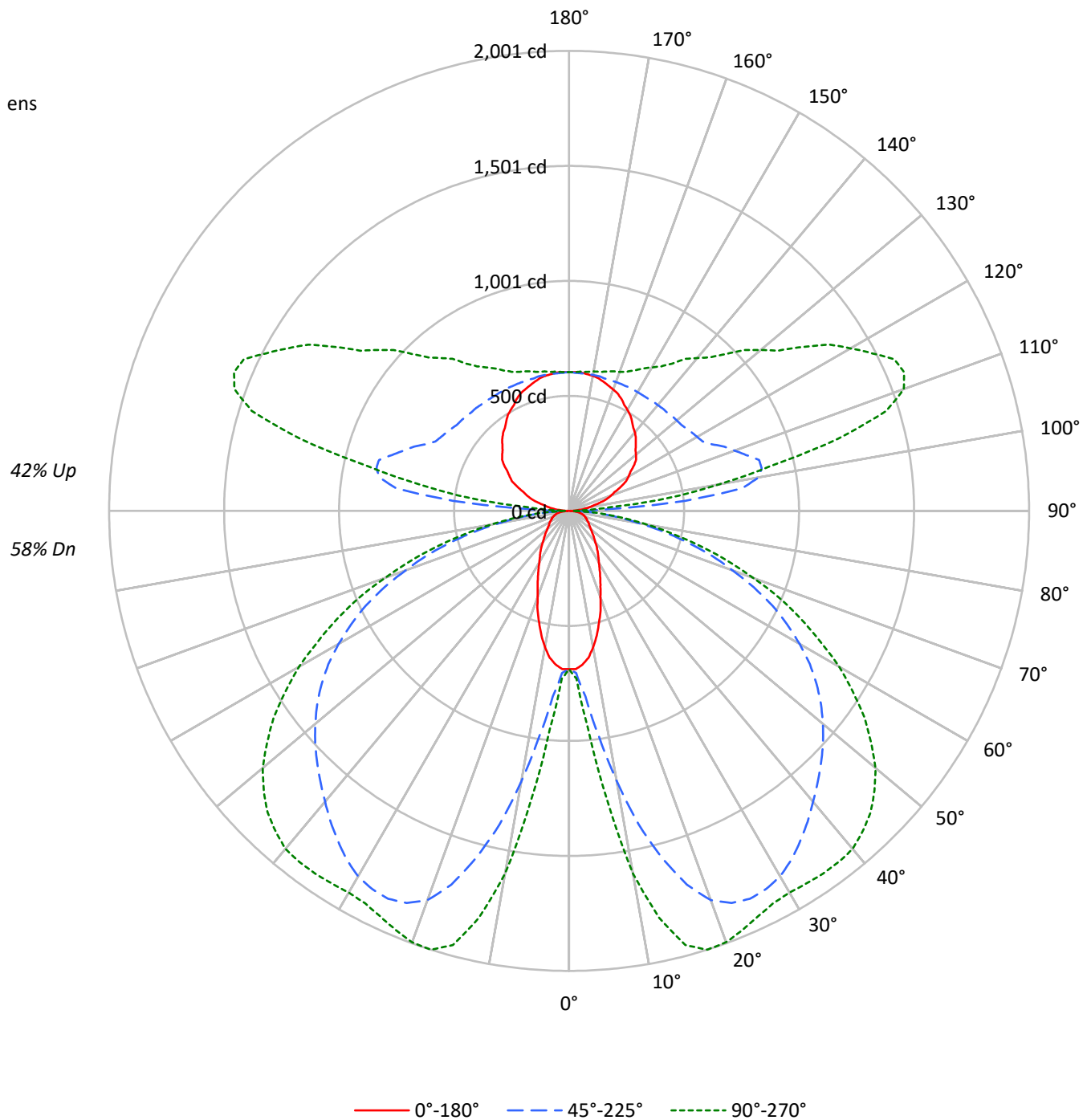
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9244.4 lumens
Efficiency: N/A
Efficacy: 99.4 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): 93
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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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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58			58
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52	47			47
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38			38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36	32			32
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30	27			27
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26	23			23
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19			19
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17			17
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15			15
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15	13			13
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14	12			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4259	4259	4259
5°	4159	4921	5724
10°	3771	7171	9490
15°	3204	9367	11459
20°	2607	10852	11678
25°	2174	11353	11441
30°	1832	11422	11419
35°	1620	11229	11715
40°	1410	10980	12020
45°	1276	10796	12067
50°	1169	10630	11867
55°	1119	10389	11341
60°	1144	9928	10511
65°	1190	9230	9369
70°	1264	8043	7915
75°	1395	6553	6177
80°	1513	4539	4162
85°	1318	2404	2130

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12067 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.0
10°-20°	394.7	4.3
20°-30°	690.3	7.5
30°-40°	888.7	9.6
40°-50°	992.6	10.7
50°-60°	950.7	10.3
60°-70°	753.4	8.2
70°-80°	443.0	4.8
80°-90°	125.4	1.4
90°-100°	294.5	3.2
100°-110°	774.3	8.4
110°-120°	802.8	8.7
120°-130°	644.0	7.0
130°-140°	505.3	5.5
140°-150°	387.8	4.2
150°-160°	279.3	3.0
160°-170°	170.9	1.8
170°-180°	57.7	0.6
0°-30°	1174.1	12.7
0°-40°	2062.7	22.3
0°-60°	4006.0	43.3
0°-90°	5327.8	57.6
90°-120°	1871.6	20.2
90°-150°	3408.7	36.9
90°-180°	3917.0	42.4
0°-180°	9244.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	671	719	810	916	950	62
15°	502	928	1563	1895	1955	140
25°	321	1051	1862	1944	1946	148
35°	217	1005	1753	1853	1926	135
45°	148	801	1549	1775	1855	115
55°	106	509	1315	1527	1569	97
65°	84	270	976	1098	1113	83
75°	62	166	536	589	591	65
85°	22	51	133	146	148	23
90°	4	11	31	15	15	5
95°	39	152	507	262	178	43
105°	140	211	856	1300	1212	148
115°	248	301	686	1368	1561	245
125°	345	386	624	1054	1243	306
135°	411	452	604	851	965	318
145°	476	507	596	726	783	298
155°	538	554	596	655	674	247
165°	581	589	596	620	628	164
175°	604	604	600	608	608	57
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	688.4	688.4	692.8	695.0	699.5	701.7	706.1	710.5	723.8	726.1	730.5
5°	670.7	679.6	708.4	719.4	750.4	792.4	810.1	838.9	898.7	916.4	927.5
7.5°	644.2	664.1	734.9	752.6	830.1	940.8	987.2	1049.2	1144.4	1190.8	1228.5
10°	602.1	644.2	770.3	812.4	938.6	1106.8	1193.1	1279.4	1423.3	1487.5	1511.8
12.5°	555.6	624.2	807.9	865.5	1047.0	1292.7	1396.7	1491.9	1655.7	1742.1	1755.3
15°	502.5	595.4	843.3	927.5	1162.1	1447.7	1562.8	1680.1	1832.8	1894.8	1910.3
17.5°	456.0	573.3	876.6	965.1	1250.7	1587.1	1704.4	1801.8	1925.8	1967.8	1978.9
20°	398.4	537.9	898.7	1013.8	1343.6	1689.0	1801.8	1877.1	1961.2	1987.7	1992.2
22.5°	356.4	500.3	912.0	1031.5	1405.6	1750.9	1846.1	1905.8	1963.4	1972.3	1974.5
25°	321.0	458.2	909.8	1051.4	1458.7	1788.5	1861.6	1905.8	1939.1	1943.5	1943.5
27.5°	287.8	411.7	900.9	1055.9	1498.6	1797.3	1854.9	1885.9	1901.4	1910.3	1910.3
30°	259.0	367.5	878.7	1047.0	1516.3	1788.5	1835.0	1850.5	1866.0	1879.3	1885.9
32.5°	236.8	325.4	845.5	1029.3	1518.5	1766.4	1799.6	1808.4	1830.6	1861.6	1872.6
35°	217.0	283.3	807.9	1004.9	1505.2	1731.0	1753.1	1761.9	1806.2	1852.7	1868.2
37.5°	197.0	252.4	759.3	962.9	1485.2	1689.0	1704.4	1719.9	1788.5	1843.8	1861.6
40°	177.1	225.8	701.7	916.4	1454.3	1638.0	1651.3	1675.6	1766.4	1830.6	1848.3
42.5°	161.6	203.6	639.7	867.7	1414.4	1580.5	1600.4	1635.8	1739.8	1808.4	1828.4
45°	148.3	181.5	573.3	801.3	1363.5	1520.7	1549.4	1598.2	1708.8	1775.3	1793.0
47.5°	135.0	166.0	504.6	732.7	1308.2	1460.9	1498.6	1553.9	1666.8	1731.0	1746.5
50°	123.9	150.5	436.1	659.6	1248.4	1396.7	1441.0	1498.6	1613.7	1673.4	1693.3
52.5°	115.1	137.3	371.8	586.6	1179.8	1330.3	1381.2	1441.0	1549.4	1607.0	1620.3
55°	106.2	126.2	316.5	509.1	1109.0	1259.5	1314.9	1372.4	1478.6	1527.4	1536.2
57.5°	101.9	117.3	270.1	436.1	1033.7	1179.8	1241.8	1294.9	1394.6	1432.1	1441.0
60°	95.1	110.7	234.7	374.1	951.8	1104.5	1157.7	1210.8	1294.9	1325.9	1332.6
62.5°	88.5	106.2	208.1	314.3	867.7	1016.0	1069.1	1117.9	1188.7	1210.8	1219.6
65°	84.2	101.9	188.2	270.1	781.3	923.0	976.2	1018.2	1075.7	1097.9	1102.3
67.5°	79.7	97.4	172.7	232.4	695.0	830.1	869.9	909.8	954.0	976.2	978.4
70°	73.1	93.0	159.4	205.9	606.5	723.8	757.0	799.0	834.5	845.5	852.2
72.5°	68.6	86.3	150.5	185.9	515.7	622.0	653.0	677.3	708.4	719.4	719.4
75°	62.0	77.4	141.7	166.0	422.8	509.1	535.7	560.0	584.3	588.8	582.2
77.5°	55.4	68.6	121.7	139.4	329.8	402.9	425.0	438.3	458.2	462.6	464.9
80°	46.5	59.7	95.1	108.5	239.0	296.6	312.1	323.2	340.9	340.9	345.3
82.5°	35.4	46.5	68.6	77.4	161.6	203.6	217.0	223.6	234.7	234.7	234.7
85°	22.1	28.8	44.3	50.9	97.4	123.9	132.8	135.0	143.9	146.1	146.1
87.5°	11.1	15.5	28.8	31.0	50.9	64.2	64.2	68.6	68.6	66.4	64.2
90°	4.0	7.2	10.6	11.3	17.8	26.4	30.8	27.4	20.6	15.4	15.4
92.5°	16.2	43.8	71.3	78.2	110.0	152.3	173.5	152.1	109.2	77.0	73.9
95°	38.9	89.4	139.8	152.4	270.7	428.4	507.3	452.7	343.4	261.5	252.3
97.5°	67.3	111.8	156.3	167.4	364.7	627.6	759.1	724.6	655.6	603.8	586.1
100°	89.2	129.6	170.0	180.1	398.9	690.7	836.5	839.1	844.1	847.9	826.9
102.5°	107.9	145.5	183.2	192.6	414.6	710.4	858.4	902.4	990.4	1056.3	1038.2
105°	139.5	171.4	203.4	211.3	426.2	712.7	856.0	954.5	1151.7	1299.6	1289.9
107.5°	172.0	201.7	231.4	238.9	428.3	681.0	807.3	944.8	1219.9	1426.1	1428.5
110°	193.9	220.7	247.5	254.2	425.0	652.9	766.8	920.5	1228.0	1458.6	1468.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	215.3	240.9	266.5	272.9	425.2	628.3	729.9	887.2	1201.8	1437.8	1453.3
115°	247.7	271.4	294.9	300.9	429.1	600.1	685.7	837.2	1140.4	1367.7	1389.2
117.5°	279.7	301.2	322.7	328.1	437.2	582.5	655.2	792.1	1065.6	1270.8	1294.6
120°	298.4	318.6	338.8	343.8	443.6	576.6	643.1	768.1	1018.0	1205.5	1228.7
122.5°	316.7	337.0	357.4	362.5	452.9	573.5	633.8	746.3	971.4	1140.2	1163.0
125°	344.6	363.2	381.8	386.4	465.5	570.9	623.7	719.3	910.5	1053.9	1074.9
127.5°	367.4	386.1	404.8	409.5	478.0	569.4	615.1	697.2	861.4	984.5	1002.3
130°	379.5	399.7	419.9	424.9	487.3	570.4	611.9	685.0	831.1	940.8	957.1
132.5°	392.1	412.3	432.4	437.5	494.7	570.9	609.0	674.4	805.3	903.4	918.1
135°	410.7	429.1	447.5	452.1	502.8	570.4	604.1	658.9	768.5	850.7	863.3
137.5°	429.8	448.0	466.2	470.7	514.9	573.9	603.4	649.7	742.3	811.8	822.2
140°	445.6	462.4	479.2	483.4	522.4	574.5	600.5	640.5	720.6	780.6	790.2
142.5°	457.8	473.3	488.9	492.7	528.6	576.5	600.5	635.6	705.9	758.7	767.0
145°	476.5	490.0	503.4	506.8	536.7	576.6	596.5	625.2	682.7	725.8	732.1
147.5°	495.1	508.2	521.4	524.7	548.6	580.5	596.5	619.1	664.3	698.2	703.5
150°	507.3	519.1	531.1	534.0	554.9	582.6	596.5	615.6	653.8	682.5	686.7
152.5°	519.8	528.9	537.9	540.1	558.9	583.9	596.5	612.8	645.4	669.9	673.1
155°	538.5	545.1	551.8	553.5	567.8	586.9	596.5	609.5	635.5	654.9	657.0
157.5°	552.3	558.8	565.3	566.9	576.8	589.9	596.5	606.6	626.7	641.9	643.4
160°	561.6	566.6	571.7	572.9	580.8	591.2	596.5	605.1	622.4	635.4	636.2
162.5°	570.9	574.8	578.5	579.5	585.1	592.7	596.5	603.8	618.4	629.3	630.1
165°	581.0	584.5	587.9	588.8	591.3	594.7	596.5	601.7	612.2	620.0	620.9
167.5°	590.4	592.0	593.6	594.0	596.2	599.1	600.5	603.9	610.8	615.9	616.3
170°	596.5	598.1	599.7	600.1	600.2	600.4	600.5	603.9	610.8	615.9	615.9
172.5°	599.7	600.0	600.4	600.5	600.5	600.5	600.5	603.2	608.6	612.7	612.3
175°	604.1	604.1	604.1	604.1	602.9	601.3	600.5	602.2	605.6	608.2	608.2
177.5°	604.1	604.1	604.1	604.1	603.2	602.0	601.4	602.7	605.5	607.5	607.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	688.4	688.4
2.5°	734.9	730.5
5°	945.2	949.6
7.5°	1272.8	1270.6
10°	1582.7	1602.6
12.5°	1808.4	1812.9
15°	1945.7	1954.6
17.5°	1998.8	2001.1
20°	2001.1	1996.6
22.5°	1976.6	1972.3
25°	1947.9	1945.7
27.5°	1921.4	1923.5
30°	1910.3	1916.9
32.5°	1910.3	1921.4
35°	1914.7	1925.8
37.5°	1912.5	1925.8
40°	1903.7	1919.1
42.5°	1879.3	1890.4
45°	1841.6	1854.9
47.5°	1793.0	1801.8
50°	1731.0	1739.8
52.5°	1653.5	1655.7
55°	1560.5	1569.4
57.5°	1460.9	1463.1
60°	1350.3	1356.9
62.5°	1233.0	1233.0
65°	1109.0	1113.4
67.5°	980.6	991.7
70°	850.0	852.2
72.5°	721.6	721.6
75°	588.8	591.0
77.5°	462.6	462.6
80°	343.1	345.3
82.5°	236.8	241.3
85°	148.3	148.3
87.5°	68.6	62.0
90°	15.4	15.4
92.5°	61.7	49.4
95°	215.1	178.0
97.5°	515.5	444.8
100°	742.6	658.5
102.5°	966.2	894.1
105°	1251.1	1212.4
107.5°	1437.8	1447.1
110°	1509.0	1549.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1515.3	1577.3
115°	1475.1	1561.1
117.5°	1389.9	1485.2
120°	1321.3	1413.9
122.5°	1254.4	1345.8
125°	1159.1	1243.3
127.5°	1073.3	1144.3
130°	1022.7	1088.3
132.5°	976.9	1035.6
135°	914.0	964.6
137.5°	863.6	905.1
140°	829.0	867.8
142.5°	800.4	833.7
145°	757.4	782.6
147.5°	724.3	745.2
150°	703.6	720.6
152.5°	685.9	698.7
155°	665.4	673.9
157.5°	649.3	655.2
160°	639.6	643.1
162.5°	633.4	636.6
165°	624.3	627.7
167.5°	617.7	619.1
170°	615.9	615.9
172.5°	611.1	609.8
175°	608.2	608.2
177.5°	605.6	604.1
180°	604.1	604.1



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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	6.70	7.68	7.58	8.59	9.74	19.87	20.85	20.75	21.75	22.91
	3H	7.42	8.30	8.31	9.22	10.40	21.71	22.59	22.60	23.51	24.69
	4H	7.72	8.56	8.63	9.48	10.67	22.36	23.19	23.26	24.11	25.30
	6H	7.98	8.75	8.90	9.68	10.88	22.79	23.56	23.71	24.49	25.69
	8H	8.05	8.78	8.98	9.73	10.93	22.91	23.65	23.84	24.59	25.79
	12H	8.07	8.77	9.00	9.71	10.94	22.98	23.68	23.92	24.62	25.85
4H	2H	13.92	14.76	14.84	15.68	16.87	20.16	20.99	21.07	21.91	23.10
	3H	15.50	16.20	16.43	17.16	18.36	22.21	22.91	23.13	23.86	25.06
	4H	15.60	16.24	16.54	17.19	18.42	22.98	23.62	23.91	24.56	25.79
	6H	15.62	16.17	16.57	17.15	18.37	23.52	24.07	24.47	25.04	26.27
	8H	15.60	16.12	16.55	17.08	18.33	23.68	24.20	24.63	25.16	26.41
	12H	15.56	16.03	16.53	17.01	18.26	23.78	24.25	24.75	25.23	26.48
8H	4H	17.05	17.57	18.01	18.54	19.78	23.05	23.56	24.00	24.53	25.77
	6H	17.30	17.73	18.28	18.74	19.98	23.68	24.11	24.65	25.11	26.36
	8H	17.32	17.70	18.31	18.70	19.96	23.90	24.28	24.88	25.27	26.53
	12H	17.30	17.63	18.29	18.62	19.93	24.04	24.38	25.03	25.37	26.67
12H	4H	17.20	17.67	18.17	18.65	19.90	23.01	23.47	23.98	24.46	25.71
	6H	17.56	17.94	18.55	18.94	20.20	23.66	24.04	24.65	25.04	26.30
	8H	17.64	17.97	18.63	18.96	20.27	23.90	24.23	24.89	25.22	26.53