

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: P937342

Luminaire Tested: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937342
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-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

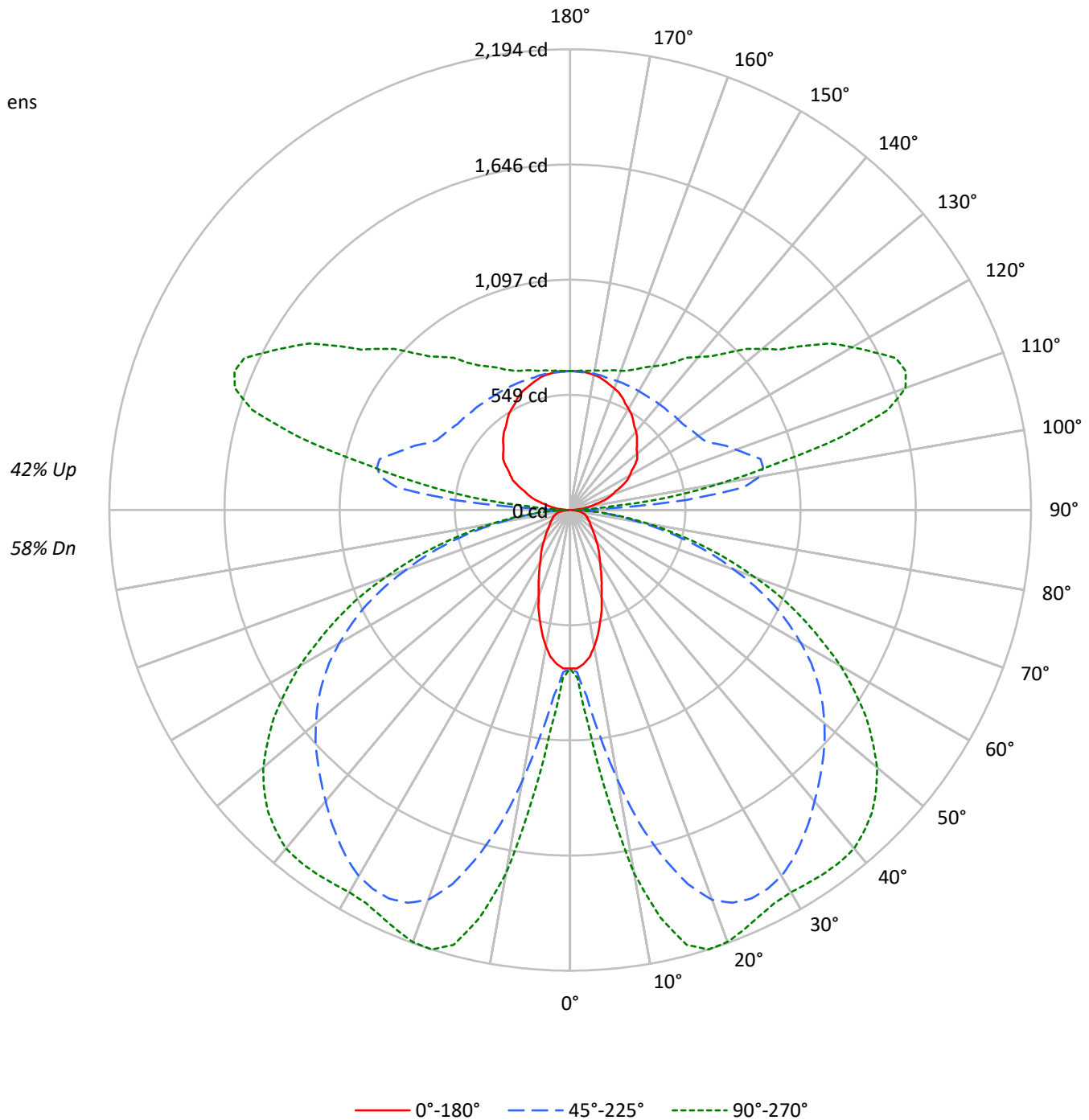
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10136.6 lumens
Efficiency: N/A
Efficacy: 109.0 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
RCR																				
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58		
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52	47		
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38		
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36	32		
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30	27		
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26	23		
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19		
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17		
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15		
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15	13		
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4669	4669	4669
5°	4560	5395	6277
10°	4135	7864	10406
15°	3513	10271	12565
20°	2859	11899	12805
25°	2384	12449	12545
30°	2009	12524	12521
35°	1776	12313	12846
40°	1547	12039	13180
45°	1399	11838	13231
50°	1282	11656	13012
55°	1227	11391	12436
60°	1254	10886	11524
65°	1304	10120	10274
70°	1385	8820	8679
75°	1530	7185	6773
80°	1660	4977	4565
85°	1449	2635	2336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13231 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.0
10°-20°	432.8	4.3
20°-30°	757.0	7.5
30°-40°	974.4	9.6
40°-50°	1088.4	10.7
50°-60°	1042.4	10.3
60°-70°	826.1	8.1
70°-80°	485.8	4.8
80°-90°	137.5	1.4
90°-100°	322.9	3.2
100°-110°	849.0	8.4
110°-120°	880.3	8.7
120°-130°	706.1	7.0
130°-140°	554.0	5.5
140°-150°	425.3	4.2
150°-160°	306.3	3.0
160°-170°	187.4	1.8
170°-180°	63.3	0.6
0°-30°	1287.4	12.7
0°-40°	2261.8	22.3
0°-60°	4392.6	43.3
0°-90°	5842.0	57.6
90°-120°	2052.2	20.2
90°-150°	3737.6	36.9
90°-180°	4295.0	42.4
0°-180°	10136.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	735	789	888	1005	1041	68
15°	551	1017	1714	2078	2143	153
25°	352	1153	2041	2131	2134	162
35°	238	1102	1922	2032	2112	149
45°	163	879	1699	1947	2034	126
55°	116	558	1442	1675	1721	106
65°	92	296	1070	1204	1221	91
75°	68	182	587	646	648	71
85°	24	56	146	160	163	26
90°	4	12	34	17	17	5
95°	43	167	556	287	195	47
105°	153	232	939	1425	1329	162
115°	272	330	752	1500	1712	268
125°	378	424	684	1156	1363	336
135°	450	496	662	933	1058	348
145°	522	556	654	796	858	327
155°	590	607	654	718	739	271
165°	637	646	654	680	688	180
175°	662	662	658	667	667	63
180°	662	662	662	662	662	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8
2.5°	754.8	754.8	759.7	762.1	767.0	769.4	774.2	779.1	793.6	796.1	801.0
5°	735.4	745.2	776.7	788.9	822.8	868.9	888.3	919.9	985.5	1004.9	1017.0
7.5°	706.3	728.1	805.8	825.2	910.2	1031.5	1082.5	1150.5	1254.8	1305.8	1347.1
10°	660.2	706.3	844.6	890.8	1029.2	1213.6	1308.3	1402.9	1560.7	1631.1	1657.8
12.5°	609.2	684.4	885.9	949.0	1148.0	1417.5	1531.5	1635.9	1815.5	1910.2	1924.7
15°	551.0	652.9	924.7	1017.0	1274.2	1587.4	1713.6	1842.2	2009.7	2077.6	2094.6
17.5°	500.0	628.6	961.2	1058.2	1371.4	1740.3	1868.9	1975.7	2111.7	2157.7	2169.9
20°	436.9	589.8	985.5	1111.7	1473.3	1852.0	1975.7	2058.2	2150.5	2179.5	2184.4
22.5°	390.8	548.6	1000.0	1131.1	1541.3	1919.8	2024.3	2089.8	2152.9	2162.6	2165.0
25°	352.0	502.4	997.6	1152.9	1599.5	1961.2	2041.3	2089.8	2126.2	2131.1	2131.1
27.5°	315.5	451.4	987.8	1157.8	1643.2	1970.8	2033.9	2068.0	2084.9	2094.6	2094.6
30°	284.0	402.9	963.6	1148.0	1662.6	1961.2	2012.1	2029.1	2046.1	2060.7	2068.0
32.5°	259.7	356.8	927.1	1128.6	1665.0	1936.9	1973.3	1983.0	2007.2	2041.3	2053.3
35°	237.9	310.7	885.9	1101.9	1650.5	1898.0	1922.3	1932.0	1980.6	2031.5	2048.5
37.5°	216.0	276.7	832.6	1055.8	1628.6	1852.0	1868.9	1885.9	1961.2	2021.8	2041.3
40°	194.2	247.6	769.4	1004.9	1594.6	1796.1	1810.6	1837.3	1936.9	2007.2	2026.7
42.5°	177.2	223.3	701.5	951.4	1550.9	1733.0	1754.8	1793.6	1907.7	1983.0	2004.8
45°	162.6	199.0	628.6	878.6	1495.1	1667.4	1699.0	1752.4	1873.8	1946.6	1966.0
47.5°	148.0	182.1	553.3	803.4	1434.5	1601.9	1643.2	1703.8	1827.7	1898.0	1915.1
50°	135.9	165.0	478.2	723.3	1368.9	1531.5	1580.1	1643.2	1769.4	1834.9	1856.7
52.5°	126.2	150.5	407.7	643.2	1293.6	1458.7	1514.5	1580.1	1699.0	1762.1	1776.7
55°	116.5	138.4	347.1	558.2	1216.0	1381.0	1441.7	1504.9	1621.3	1674.8	1684.4
57.5°	111.7	128.6	296.1	478.2	1133.5	1293.6	1361.6	1419.9	1529.1	1570.4	1580.1
60°	104.3	121.3	257.3	410.2	1043.7	1211.1	1269.4	1327.7	1419.9	1453.9	1461.2
62.5°	97.1	116.5	228.1	344.6	951.4	1114.1	1172.3	1225.7	1303.4	1327.7	1337.3
65°	92.3	111.7	206.3	296.1	856.7	1012.1	1070.4	1116.5	1179.6	1203.8	1208.7
67.5°	87.4	106.8	189.3	254.8	762.1	910.2	953.9	997.6	1046.1	1070.4	1072.8
70°	80.1	101.9	174.8	225.8	665.0	793.6	830.1	876.2	915.1	927.1	934.5
72.5°	75.3	94.7	165.0	203.9	565.5	682.1	716.0	742.7	776.7	788.9	788.9
75°	68.0	84.9	155.4	182.1	463.6	558.2	587.4	614.1	640.7	645.6	638.4
77.5°	60.7	75.3	133.5	152.9	361.6	441.8	466.0	480.6	502.4	507.3	509.7
80°	51.0	65.5	104.3	119.0	262.1	325.2	342.2	354.4	373.8	373.8	378.7
82.5°	38.8	51.0	75.3	84.9	177.2	223.3	237.9	245.2	257.3	257.3	257.3
85°	24.3	31.6	48.6	55.8	106.8	135.9	145.6	148.0	157.8	160.2	160.2
87.5°	12.1	17.0	31.6	33.9	55.8	70.4	70.4	75.3	75.3	72.9	70.4
90°	4.4	7.9	11.6	12.4	19.5	29.0	33.8	30.0	22.6	16.9	16.9
92.5°	17.8	48.0	78.2	85.8	120.6	167.0	190.3	166.8	119.7	84.4	81.1
95°	42.6	98.0	153.3	167.1	296.8	469.8	556.2	496.4	376.5	286.8	276.6
97.5°	73.8	122.6	171.3	183.6	399.9	688.2	832.4	794.5	718.9	662.1	642.7
100°	97.8	142.1	186.4	197.5	437.4	757.3	917.3	920.0	925.6	929.7	906.7
102.5°	118.3	159.6	200.9	211.2	454.6	779.0	941.3	989.5	1085.9	1158.2	1138.4
105°	153.0	188.0	223.0	231.7	467.3	781.5	938.6	1046.6	1262.8	1425.0	1414.4
107.5°	188.6	221.2	253.8	261.9	469.7	746.7	885.2	1036.0	1337.6	1563.8	1566.3
110°	212.6	242.0	271.4	278.7	466.0	715.9	840.8	1009.4	1346.5	1599.3	1610.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	236.1	264.1	292.2	299.2	466.2	688.9	800.3	972.8	1317.8	1576.6	1593.6
115°	271.7	297.6	323.4	329.9	470.5	658.1	751.9	918.0	1250.4	1499.7	1523.2
117.5°	306.7	330.3	353.8	359.7	479.3	638.7	718.5	868.5	1168.5	1393.5	1419.6
120°	327.2	349.4	371.5	377.0	486.4	632.2	705.2	842.2	1116.3	1321.8	1347.3
122.5°	347.3	369.6	391.9	397.5	496.6	628.9	695.0	818.3	1065.1	1250.2	1275.3
125°	377.9	398.3	418.6	423.7	510.4	626.0	683.9	788.7	998.4	1155.6	1178.6
127.5°	402.8	423.4	443.9	449.0	524.2	624.4	674.5	764.5	944.5	1079.5	1099.0
130°	416.1	438.3	460.4	466.0	534.3	625.4	671.0	751.1	911.3	1031.5	1049.5
132.5°	429.9	452.1	474.2	479.7	542.4	626.0	667.8	739.5	883.0	990.6	1006.7
135°	450.4	470.5	490.7	495.8	551.3	625.4	662.5	722.5	842.7	932.8	946.6
137.5°	471.3	491.2	511.2	516.2	564.6	629.3	661.6	712.4	813.9	890.1	901.5
140°	488.6	507.0	525.4	530.0	572.9	629.9	658.4	702.3	790.1	855.9	866.5
142.5°	502.0	519.0	536.0	540.2	579.6	632.1	658.4	697.0	774.0	831.9	841.1
145°	522.5	537.3	552.0	555.7	588.5	632.2	654.0	685.6	748.6	795.8	802.7
147.5°	542.8	557.3	571.7	575.3	601.5	636.5	654.0	678.8	728.4	765.6	771.4
150°	556.2	569.2	582.3	585.6	608.4	638.8	654.0	675.0	716.9	748.3	753.0
152.5°	570.0	579.9	589.8	592.3	612.8	640.3	654.0	671.9	707.7	734.5	738.1
155°	590.4	597.7	605.1	606.9	622.6	643.5	654.0	668.3	696.8	718.1	720.4
157.5°	605.6	612.7	619.8	621.6	632.4	646.9	654.0	665.1	687.2	703.9	705.5
160°	615.8	621.3	626.9	628.2	636.8	648.3	654.0	663.5	682.4	696.7	697.6
162.5°	626.0	630.2	634.3	635.4	641.6	649.9	654.0	662.1	678.0	690.1	690.9
165°	637.1	640.9	644.7	645.6	648.4	652.1	654.0	659.8	671.2	679.9	680.8
167.5°	647.3	649.2	650.9	651.4	653.7	656.9	658.4	662.2	669.7	675.4	675.7
170°	654.0	655.9	657.6	658.1	658.1	658.3	658.4	662.2	669.7	675.4	675.4
172.5°	657.6	658.0	658.3	658.4	658.4	658.4	658.4	661.4	667.3	671.8	671.4
175°	662.5	662.5	662.5	662.5	661.1	659.3	658.4	660.3	664.1	666.9	666.9
177.5°	662.5	662.5	662.5	662.5	661.4	660.1	659.4	660.9	663.9	666.1	665.7
180°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	754.8	754.8
2.5°	805.8	801.0
5°	1036.4	1041.3
7.5°	1395.7	1393.2
10°	1735.4	1757.3
12.5°	1983.0	1987.8
15°	2133.5	2143.2
17.5°	2191.7	2194.2
20°	2194.2	2189.3
22.5°	2167.4	2162.6
25°	2135.8	2133.5
27.5°	2106.8	2109.2
30°	2094.6	2101.9
32.5°	2094.6	2106.8
35°	2099.5	2111.7
37.5°	2097.0	2111.7
40°	2087.4	2104.3
42.5°	2060.7	2072.8
45°	2019.4	2033.9
47.5°	1966.0	1975.7
50°	1898.0	1907.7
52.5°	1813.0	1815.5
55°	1711.1	1720.9
57.5°	1601.9	1604.3
60°	1480.6	1487.8
62.5°	1352.0	1352.0
65°	1216.0	1220.9
67.5°	1075.2	1087.4
70°	932.0	934.5
72.5°	791.2	791.2
75°	645.6	648.0
77.5°	507.3	507.3
80°	376.2	378.7
82.5°	259.7	264.6
85°	162.6	162.6
87.5°	75.3	68.0
90°	16.9	16.9
92.5°	67.6	54.2
95°	235.9	195.2
97.5°	565.2	487.8
100°	814.3	722.0
102.5°	1059.5	980.4
105°	1371.9	1329.4
107.5°	1576.6	1586.8
110°	1654.6	1698.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1661.6	1729.6
115°	1617.5	1711.8
117.5°	1524.1	1628.6
120°	1448.8	1550.4
122.5°	1375.5	1475.7
125°	1271.0	1363.2
127.5°	1176.9	1254.7
130°	1121.4	1193.3
132.5°	1071.1	1135.6
135°	1002.2	1057.7
137.5°	946.9	992.4
140°	909.1	951.5
142.5°	877.6	914.1
145°	830.5	858.1
147.5°	794.2	817.2
150°	771.6	790.1
152.5°	752.0	766.1
155°	729.7	738.9
157.5°	712.0	718.5
160°	701.4	705.2
162.5°	694.5	698.0
165°	684.5	688.3
167.5°	677.4	678.9
170°	675.4	675.4
172.5°	670.1	668.7
175°	666.9	666.9
177.5°	664.1	662.5
180°	662.5	662.5



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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	7.02	8.00	7.90	8.91	10.06	20.19	21.17	21.07	22.07	23.23
	3H	7.74	8.62	8.63	9.53	10.71	22.03	22.91	22.92	23.83	25.01
	4H	8.04	8.88	8.95	9.80	10.99	22.68	23.51	23.58	24.43	25.62
	6H	8.30	9.07	9.22	10.00	11.20	23.11	23.88	24.03	24.81	26.01
	8H	8.37	9.10	9.30	10.05	11.25	23.23	23.97	24.16	24.91	26.11
	12H	8.39	9.09	9.32	10.03	11.26	23.30	24.00	24.24	24.94	26.17
4H	2H	14.24	15.08	15.16	16.00	17.19	20.48	21.31	21.39	22.23	23.42
	3H	15.82	16.52	16.75	17.48	18.68	22.53	23.23	23.45	24.18	25.38
	4H	15.92	16.56	16.86	17.51	18.74	23.30	23.94	24.23	24.88	26.11
	6H	15.94	16.49	16.89	17.47	18.69	23.84	24.39	24.79	25.36	26.59
	8H	15.92	16.44	16.87	17.40	18.65	24.00	24.52	24.95	25.48	26.73
	12H	15.88	16.35	16.85	17.33	18.58	24.10	24.57	25.07	25.55	26.80
8H	4H	17.37	17.89	18.33	18.86	20.10	23.37	23.88	24.32	24.85	26.09
	6H	17.62	18.05	18.60	19.06	20.30	24.00	24.43	24.98	25.43	26.68
	8H	17.64	18.02	18.63	19.02	20.28	24.22	24.60	25.20	25.59	26.85
	12H	17.62	17.95	18.61	18.94	20.25	24.36	24.70	25.35	25.69	27.00
12H	4H	17.52	17.99	18.49	18.97	20.22	23.33	23.79	24.30	24.78	26.03
	6H	17.88	18.26	18.87	19.26	20.52	23.98	24.36	24.97	25.36	26.62
	8H	17.96	18.29	18.95	19.28	20.59	24.22	24.55	25.21	25.54	26.85