

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: P936320

Luminaire Tested: SQ4-FB-025U-075D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936320
REPORT IS A COMBINATION OF REPORTS P933454 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

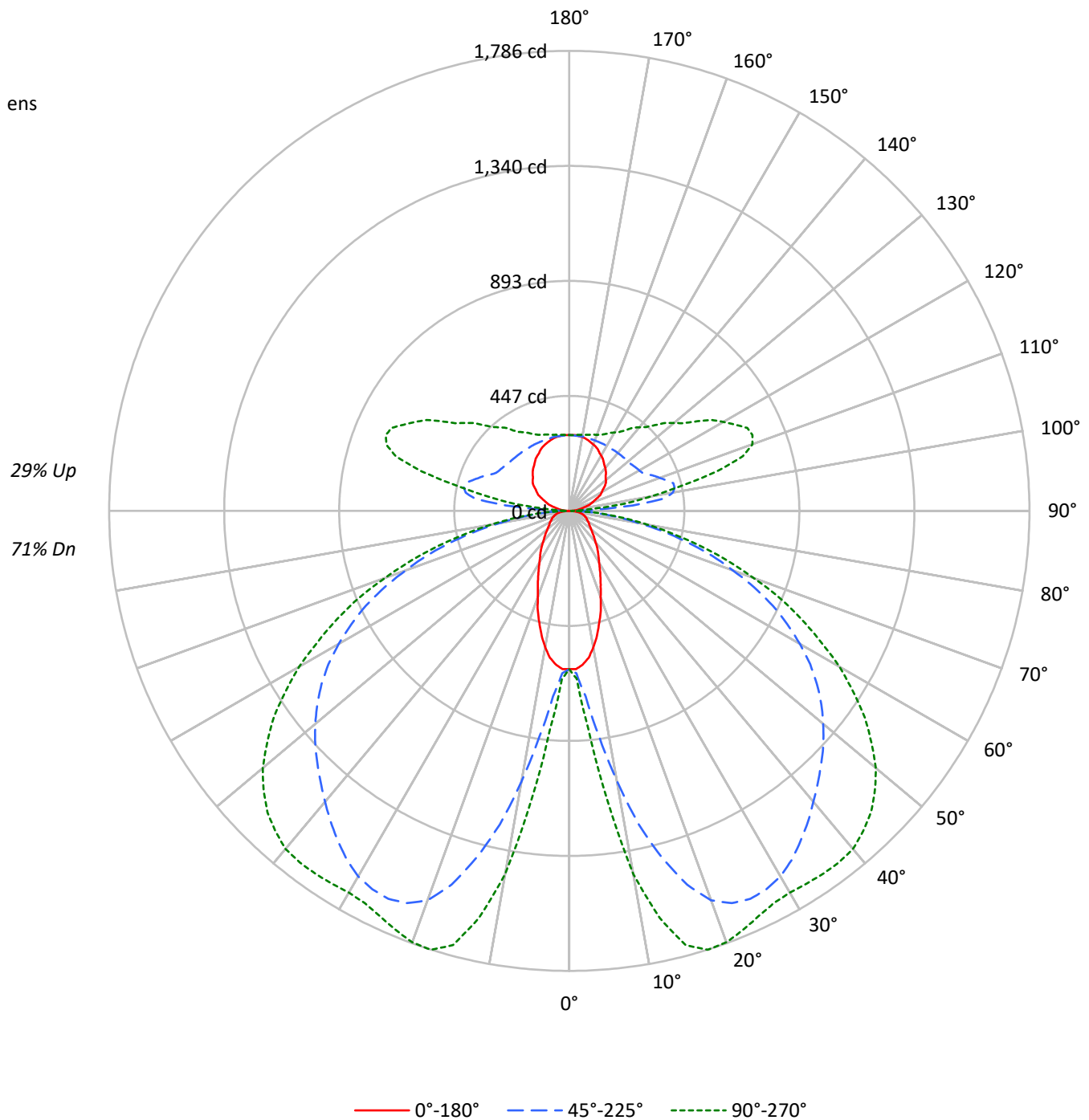
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6667.1 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2851	2851	2851
5°	2785	3295	3832
10°	2527	4804	6354
15°	2148	6277	7672
20°	1748	7273	7819
25°	1458	7611	7660
30°	1230	7659	7646
35°	1087	7532	7844
40°	948	7367	8048
45°	858	7246	8080
50°	787	7137	7946
55°	753	6977	7594
60°	772	6670	7038
65°	803	6205	6273
70°	855	5411	5300
75°	947	4412	4136
80°	1035	3060	2787
85°	922	1624	1426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8080 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.2
10°-20°	352.3	5.3
20°-30°	616.3	9.2
30°-40°	793.3	11.9
40°-50°	886.1	13.3
50°-60°	848.7	12.7
60°-70°	672.6	10.1
70°-80°	395.5	5.9
80°-90°	111.0	1.7
90°-100°	143.7	2.2
100°-110°	377.9	5.7
110°-120°	391.9	5.9
120°-130°	314.3	4.7
130°-140°	246.6	3.7
140°-150°	189.3	2.8
150°-160°	136.3	2.0
160°-170°	83.4	1.3
170°-180°	28.2	0.4
0°-30°	1048.1	15.7
0°-40°	1841.5	27.6
0°-60°	3576.3	53.6
0°-90°	4755.4	71.3
90°-120°	913.5	13.7
90°-150°	1663.7	25.0
90°-180°	1912.0	28.7
0°-180°	6667.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	599	642	723	818	848	55
15°	449	828	1395	1692	1745	125
25°	286	939	1662	1735	1737	132
35°	194	897	1565	1654	1719	121
45°	132	715	1383	1585	1656	102
55°	95	454	1174	1364	1401	86
65°	75	241	871	980	994	74
75°	55	148	478	526	528	58
85°	20	45	119	130	132	21
90°	2	6	15	8	8	3
95°	19	74	248	128	87	21
105°	68	103	418	634	592	72
115°	121	147	335	668	762	119
125°	168	189	304	514	607	149
135°	200	221	295	415	471	155
145°	233	247	291	354	382	146
155°	263	270	291	320	329	121
165°	284	287	291	303	306	80
175°	295	295	293	297	297	28
180°	295	295	295	295	295	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5
2.5°	614.5	614.5	618.5	620.5	624.4	626.4	630.3	634.3	646.2	648.1	652.1
5°	598.7	606.6	632.3	642.2	669.9	707.4	723.2	748.9	802.3	818.1	827.9
7.5°	575.0	592.8	656.0	671.8	741.0	839.8	881.3	936.6	1021.6	1063.1	1096.7
10°	537.5	575.0	687.6	725.2	837.8	988.0	1065.1	1142.2	1270.7	1328.0	1349.7
12.5°	496.0	557.2	721.2	772.6	934.6	1154.1	1247.0	1331.9	1478.1	1555.2	1567.1
15°	448.6	531.5	752.9	827.9	1037.4	1292.4	1395.2	1499.9	1636.2	1691.6	1705.4
17.5°	407.1	511.8	782.5	861.5	1116.4	1416.9	1521.6	1608.6	1719.2	1756.8	1766.6
20°	355.7	480.2	802.3	905.0	1199.5	1507.8	1608.6	1675.7	1750.8	1774.5	1778.5
22.5°	318.1	446.6	814.1	920.8	1254.9	1563.1	1648.1	1701.4	1752.8	1760.7	1762.7
25°	286.5	409.0	812.1	938.6	1302.3	1596.7	1661.9	1701.4	1731.1	1735.0	1735.0
27.5°	256.9	367.5	804.2	942.6	1337.9	1604.6	1656.0	1683.7	1697.5	1705.4	1705.4
30°	231.2	328.0	784.5	934.6	1353.7	1596.7	1638.2	1652.0	1665.9	1677.7	1683.7
32.5°	211.4	290.5	754.8	918.8	1355.6	1576.9	1606.6	1614.5	1634.3	1661.9	1671.8
35°	193.6	252.9	721.2	897.1	1343.8	1545.3	1565.1	1573.0	1612.5	1654.0	1667.8
37.5°	175.9	225.3	677.8	859.6	1326.0	1507.8	1521.6	1535.5	1596.7	1646.1	1661.9
40°	158.1	201.6	626.4	818.1	1298.3	1462.3	1474.2	1495.9	1576.9	1634.3	1650.1
42.5°	144.2	181.8	571.1	774.6	1262.8	1411.0	1428.7	1460.4	1553.2	1614.5	1632.3
45°	132.4	162.0	511.8	715.3	1217.3	1357.6	1383.3	1426.8	1525.6	1584.9	1600.7
47.5°	120.5	148.2	450.5	654.1	1167.9	1304.3	1337.9	1387.3	1488.0	1545.3	1559.2
50°	110.7	134.4	389.3	588.8	1114.5	1247.0	1286.5	1337.9	1440.6	1494.0	1511.7
52.5°	102.8	122.5	332.0	523.6	1053.2	1187.7	1233.1	1286.5	1383.3	1434.7	1446.5
55°	94.8	112.6	282.6	454.5	990.0	1124.4	1173.8	1225.2	1320.1	1363.5	1371.4
57.5°	90.9	104.7	241.1	389.3	922.8	1053.2	1108.5	1156.1	1245.0	1278.6	1286.5
60°	85.0	98.8	209.5	333.9	849.7	986.0	1033.4	1080.9	1156.1	1183.7	1189.7
62.5°	79.0	94.8	185.7	280.6	774.6	907.0	954.4	997.9	1061.1	1080.9	1088.8
65°	75.1	90.9	168.0	241.1	697.5	824.0	871.4	909.0	960.3	980.1	984.0
67.5°	71.1	86.9	154.1	207.5	620.5	741.0	776.6	812.1	851.7	871.4	873.4
70°	65.2	83.0	142.3	183.8	541.4	646.2	675.8	713.3	745.0	754.8	760.8
72.5°	61.3	77.1	134.4	166.0	460.4	555.3	582.9	604.7	632.3	642.2	642.2
75°	55.3	69.2	126.5	148.2	377.4	454.5	478.2	499.9	521.7	525.6	519.7
77.5°	49.4	61.3	108.7	124.5	294.4	359.6	379.4	391.2	409.0	413.0	415.0
80°	41.5	53.4	85.0	96.8	213.4	264.8	278.6	288.5	304.3	304.3	308.3
82.5°	31.6	41.5	61.3	69.2	144.2	181.8	193.6	199.6	209.5	209.5	209.5
85°	19.8	25.7	39.5	45.4	86.9	110.7	118.6	120.5	128.4	130.4	130.4
87.5°	9.9	13.8	25.7	27.7	45.4	57.3	57.3	61.3	61.3	59.3	57.3
90°	2.0	3.6	5.1	5.5	8.7	12.9	15.0	13.3	10.0	7.5	7.5
92.5°	7.9	21.3	34.9	38.2	53.7	74.4	84.7	74.2	53.4	37.6	36.2
95°	19.0	43.6	68.3	74.4	132.1	209.1	247.6	220.9	167.7	127.6	123.1
97.5°	32.9	54.6	76.3	81.7	177.9	306.3	370.5	353.7	320.0	294.7	286.1
100°	43.6	63.2	82.9	87.8	194.6	337.0	408.2	409.5	412.0	413.9	403.6
102.5°	52.7	71.0	89.4	94.0	202.3	346.8	419.0	440.5	483.3	515.5	506.7
105°	68.1	83.7	99.3	103.1	208.1	347.9	417.8	465.9	562.2	634.3	629.6
107.5°	83.9	98.4	112.9	116.6	209.1	332.4	394.0	461.1	595.4	696.0	697.2
110°	94.7	107.7	120.8	124.1	207.5	318.6	374.3	449.2	599.3	711.9	716.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	105.1	117.6	130.0	133.2	207.6	306.7	356.3	433.0	586.6	701.8	709.4
115°	120.9	132.4	144.0	146.8	209.5	292.9	334.6	408.6	556.6	667.6	678.1
117.5°	136.5	147.0	157.5	160.2	213.4	284.3	319.8	386.6	520.1	620.3	631.9
120°	145.6	155.5	165.4	167.9	216.6	281.5	313.9	374.8	496.9	588.4	599.6
122.5°	154.5	164.5	174.5	177.0	221.1	279.9	309.3	364.3	474.1	556.5	567.7
125°	168.3	177.3	186.3	188.6	227.2	278.7	304.4	351.0	444.4	514.4	524.6
127.5°	179.3	188.4	197.6	199.9	233.4	277.9	300.3	340.4	420.5	480.6	489.3
130°	185.2	195.1	204.9	207.4	237.8	278.4	298.7	334.3	405.7	459.1	467.1
132.5°	191.4	201.3	211.0	213.5	241.5	278.7	297.3	329.2	393.0	440.9	448.2
135°	200.5	209.5	218.4	220.7	245.4	278.4	294.9	321.7	375.1	415.3	421.4
137.5°	209.8	218.6	227.5	229.8	251.3	280.1	294.5	317.1	362.3	396.2	401.2
140°	217.5	225.7	233.9	235.9	255.0	280.4	293.1	312.7	351.7	381.0	385.7
142.5°	223.5	231.0	238.6	240.5	258.1	281.5	293.1	310.3	344.6	370.3	374.4
145°	232.6	239.2	245.7	247.4	262.0	281.5	291.2	305.2	333.3	354.3	357.4
147.5°	241.7	248.1	254.5	256.1	267.7	283.4	291.2	302.2	324.3	340.8	343.3
150°	247.6	253.4	259.2	260.6	270.8	284.3	291.2	300.5	319.1	333.1	335.1
152.5°	253.7	258.1	262.5	263.6	272.8	285.0	291.2	299.1	315.0	326.9	328.5
155°	262.8	266.1	269.3	270.1	277.1	286.5	291.2	297.5	310.1	319.6	320.6
157.5°	269.5	272.7	275.8	276.6	281.5	287.9	291.2	296.1	305.9	313.3	314.0
160°	274.1	276.5	279.0	279.6	283.5	288.6	291.2	295.4	303.8	310.1	310.5
162.5°	278.6	280.5	282.3	282.8	285.5	289.3	291.2	294.7	301.8	307.2	307.6
165°	283.7	285.3	287.0	287.4	288.7	290.4	291.2	293.7	298.8	302.6	303.0
167.5°	288.2	289.0	289.8	290.0	291.1	292.4	293.1	294.8	298.2	300.6	300.8
170°	291.2	292.0	292.7	292.9	293.0	293.1	293.1	294.8	298.2	300.6	300.6
172.5°	292.7	292.9	293.1	293.1	293.1	293.1	293.1	294.4	297.1	299.1	298.9
175°	294.9	294.9	294.9	294.9	294.3	293.5	293.1	293.9	295.6	296.9	296.9
177.5°	294.9	294.9	294.9	294.9	294.4	293.8	293.5	294.2	295.5	296.5	296.3
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	614.5	614.5
2.5°	656.0	652.1
5°	843.8	847.7
7.5°	1136.3	1134.3
10°	1412.9	1430.7
12.5°	1614.5	1618.4
15°	1737.0	1744.9
17.5°	1784.4	1786.4
20°	1786.4	1782.5
22.5°	1764.7	1760.7
25°	1739.0	1737.0
27.5°	1715.3	1717.2
30°	1705.4	1711.3
32.5°	1705.4	1715.3
35°	1709.3	1719.2
37.5°	1707.4	1719.2
40°	1699.5	1713.3
42.5°	1677.7	1687.6
45°	1644.1	1656.0
47.5°	1600.7	1608.6
50°	1545.3	1553.2
52.5°	1476.2	1478.1
55°	1393.2	1401.1
57.5°	1304.3	1306.2
60°	1205.5	1211.4
62.5°	1100.6	1100.6
65°	990.0	993.9
67.5°	875.4	885.2
70°	758.8	760.8
72.5°	644.2	644.2
75°	525.6	527.6
77.5°	413.0	413.0
80°	306.3	308.3
82.5°	211.4	215.4
85°	132.4	132.4
87.5°	61.3	55.3
90°	7.5	7.5
92.5°	30.1	24.1
95°	105.0	86.8
97.5°	251.5	217.1
100°	362.5	321.4
102.5°	471.6	436.4
105°	610.7	591.7
107.5°	701.8	706.3
110°	736.5	756.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	739.6	769.8
115°	720.1	761.9
117.5°	678.5	725.0
120°	644.9	690.1
122.5°	612.3	656.8
125°	565.7	606.8
127.5°	523.8	558.5
130°	499.1	531.1
132.5°	476.8	505.5
135°	446.1	470.8
137.5°	421.5	441.7
140°	404.6	423.6
142.5°	390.7	406.9
145°	369.7	382.0
147.5°	353.5	363.8
150°	343.4	351.7
152.5°	334.7	341.0
155°	324.8	328.9
157.5°	317.0	319.8
160°	312.2	313.9
162.5°	309.1	310.7
165°	304.7	306.4
167.5°	301.5	302.2
170°	300.6	300.6
172.5°	298.3	297.7
175°	296.9	296.9
177.5°	295.6	294.9
180°	294.9	294.9



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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	6.39	7.54	7.13	8.31	9.24	19.57	20.72	20.31	21.49	22.42
	3H	7.11	8.15	7.87	8.93	9.89	21.43	22.47	22.18	23.25	24.20
	4H	7.42	8.41	8.20	9.20	10.17	22.08	23.07	22.86	23.86	24.82
	6H	7.69	8.60	8.48	9.40	10.38	22.53	23.44	23.32	24.24	25.22
	8H	7.77	8.64	8.56	9.45	10.44	22.66	23.53	23.45	24.34	25.33
	12H	7.79	8.62	8.60	9.43	10.45	22.74	23.57	23.54	24.38	25.39
4H	2H	13.64	14.62	14.41	15.41	16.38	19.87	20.86	20.65	21.65	22.61
	3H	15.23	16.06	16.02	16.88	17.86	21.95	22.77	22.73	23.59	24.58
	4H	15.34	16.09	16.14	16.91	17.93	22.72	23.48	23.53	24.30	25.31
	6H	15.37	16.02	16.19	16.87	17.88	23.28	23.94	24.10	24.78	25.80
	8H	15.35	15.96	16.17	16.80	17.84	23.45	24.06	24.28	24.91	25.94
	12H	15.32	15.87	16.17	16.74	17.78	23.56	24.11	24.41	24.98	26.01
8H	4H	16.81	17.42	17.63	18.26	19.29	22.81	23.42	23.64	24.27	25.30
	6H	17.06	17.57	17.92	18.46	19.49	23.45	23.96	24.31	24.85	25.88
	8H	17.09	17.54	17.95	18.42	19.47	23.68	24.13	24.54	25.01	26.06
	12H	17.07	17.47	17.94	18.34	19.44	23.84	24.24	24.70	25.11	26.21
12H	4H	16.97	17.52	17.81	18.38	19.42	22.78	23.33	23.62	24.19	25.23
	6H	17.33	17.78	18.19	18.66	19.71	23.44	23.89	24.30	24.77	25.82
	8H	17.41	17.81	18.28	18.68	19.78	23.69	24.09	24.55	24.96	26.06