

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: P937351

Luminaire Tested: SQ4-FB-075U-125D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937351  
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-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

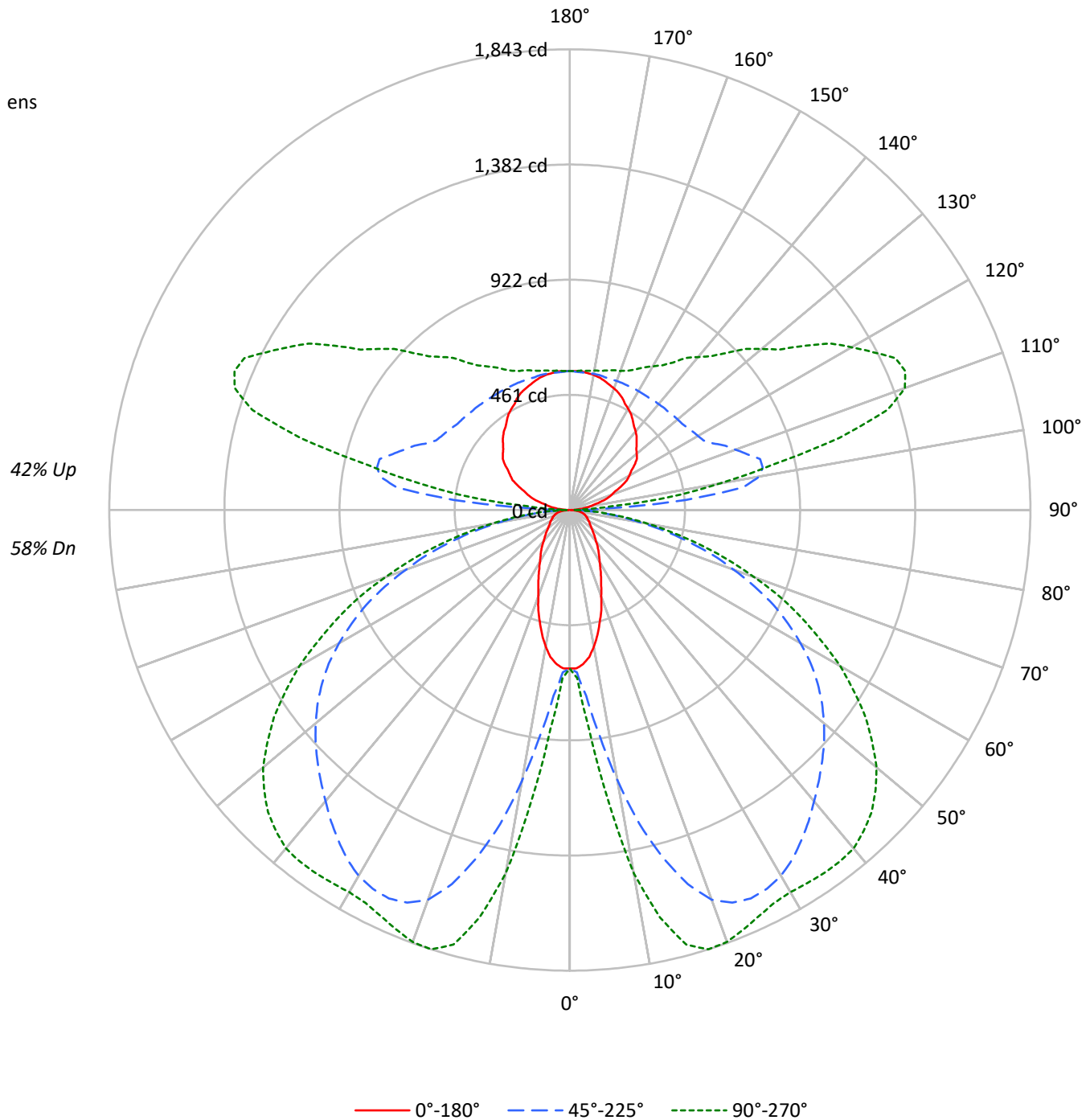
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8512.7 lumens  
Efficiency: N/A  
Efficacy: 91.5 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°	3921	3921	3921
5°	3830	4531	5271
10°	3472	6604	8739
15°	2950	8626	10552
20°	2401	9993	10754
25°	2002	10454	10535
30°	1687	10518	10516
35°	1491	10341	10787
40°	1299	10111	11068
45°	1175	9941	11112
50°	1077	9789	10928
55°	1030	9566	10444
60°	1053	9142	9679
65°	1095	8499	8628
70°	1164	7407	7289
75°	1285	6034	5688
80°	1393	4180	3833
85°	1216	2213	1962

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11112 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	1.0
10°-20°	363.4	4.3
20°-30°	635.7	7.5
30°-40°	818.3	9.6
40°-50°	914.0	10.7
50°-60°	875.4	10.3
60°-70°	693.8	8.2
70°-80°	408.0	4.8
80°-90°	115.5	1.4
90°-100°	271.2	3.2
100°-110°	713.0	8.4
110°-120°	739.3	8.7
120°-130°	593.0	7.0
130°-140°	465.3	5.5
140°-150°	357.1	4.2
150°-160°	257.2	3.0
160°-170°	157.4	1.8
170°-180°	53.2	0.6
0°-30°	1081.1	12.7
0°-40°	1899.4	22.3
0°-60°	3688.9	43.3
0°-90°	4906.1	57.6
90°-120°	1723.4	20.2
90°-150°	3138.8	36.9
90°-180°	3607.0	42.4
0°-180°	8512.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	618	662	746	844	874	57
15°	463	854	1439	1745	1800	129
25°	296	968	1714	1790	1792	136
35°	200	925	1614	1706	1773	125
45°	137	738	1427	1635	1708	106
55°	98	469	1211	1406	1445	89
65°	78	249	899	1011	1025	77
75°	57	153	493	542	544	60
85°	20	47	122	134	137	22
90°	4	10	28	14	14	4
95°	36	140	467	241	164	40
105°	128	195	788	1197	1116	136
115°	228	277	631	1259	1438	225
125°	317	356	574	970	1145	282
135°	378	416	556	783	888	293
145°	439	467	549	668	721	275
155°	496	510	549	603	621	228
165°	535	542	549	571	578	151
175°	556	556	553	560	560	53
180°	556	556	556	556	556	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
2.5°	633.9	633.9	638.0	640.0	644.1	646.2	650.2	654.3	666.5	668.6	672.7
5°	617.6	625.8	652.3	662.5	691.0	729.7	746.0	772.5	827.6	843.9	854.1
7.5°	593.2	611.5	676.7	693.0	764.4	866.3	909.1	966.2	1053.8	1096.6	1131.3
10°	554.4	593.2	709.3	748.1	864.3	1019.2	1098.7	1178.2	1310.7	1369.8	1392.2
12.5°	511.6	574.8	744.0	797.0	964.1	1190.4	1286.2	1373.8	1524.7	1604.2	1616.4
15°	462.7	548.3	776.6	854.1	1070.1	1333.1	1439.1	1547.1	1687.7	1744.8	1759.1
17.5°	419.9	527.9	807.2	888.7	1151.7	1461.5	1569.5	1659.2	1773.3	1812.0	1822.2
20°	366.9	495.3	827.6	933.6	1237.3	1555.3	1659.2	1728.5	1805.9	1830.4	1834.5
22.5°	328.2	460.7	839.8	949.9	1294.4	1612.3	1700.0	1755.0	1808.0	1816.1	1818.2
25°	295.6	421.9	837.8	968.2	1343.3	1647.0	1714.2	1755.0	1785.6	1789.6	1789.6
27.5°	265.0	379.1	829.6	972.3	1380.0	1655.1	1708.1	1736.6	1750.9	1759.1	1759.1
30°	238.5	338.4	809.2	964.1	1396.3	1647.0	1689.8	1704.0	1718.3	1730.5	1736.6
32.5°	218.1	299.6	778.6	947.8	1398.3	1626.6	1657.2	1665.3	1685.7	1714.2	1724.4
35°	199.8	260.9	744.0	925.4	1386.1	1594.0	1614.4	1622.5	1663.3	1706.1	1720.3
37.5°	181.4	232.4	699.2	886.7	1367.7	1555.3	1569.5	1583.8	1647.0	1697.9	1714.2
40°	163.1	207.9	646.2	843.9	1339.2	1508.4	1520.6	1543.0	1626.6	1685.7	1702.0
42.5°	148.8	187.5	589.1	799.0	1302.5	1455.4	1473.7	1506.3	1602.1	1665.3	1683.7
45°	136.6	167.1	527.9	737.9	1255.6	1400.3	1426.8	1471.7	1573.6	1634.7	1651.0
47.5°	124.3	152.9	464.7	674.7	1204.7	1345.3	1380.0	1430.9	1534.9	1594.0	1608.2
50°	114.1	138.6	401.6	607.4	1149.6	1286.2	1327.0	1380.0	1486.0	1541.0	1559.3
52.5°	106.0	126.4	342.4	540.2	1086.4	1225.0	1271.9	1327.0	1426.8	1479.8	1492.1
55°	97.8	116.2	291.5	468.8	1021.2	1159.8	1210.8	1263.8	1361.6	1406.5	1414.6
57.5°	93.8	108.0	248.7	401.6	951.9	1086.4	1143.5	1192.4	1284.2	1318.8	1327.0
60°	87.6	101.9	216.1	344.5	876.5	1017.1	1066.1	1115.0	1192.4	1221.0	1227.1
62.5°	81.5	97.8	191.6	289.4	799.0	935.6	984.5	1029.4	1094.6	1115.0	1123.1
65°	77.5	93.8	173.3	248.7	719.5	850.0	898.9	937.6	990.6	1011.0	1015.1
67.5°	73.4	89.7	159.0	214.0	640.0	764.4	801.1	837.8	878.5	898.9	901.0
70°	67.3	85.6	146.8	189.6	558.5	666.5	697.1	735.8	768.5	778.6	784.8
72.5°	63.2	79.5	138.6	171.2	474.9	572.8	601.3	623.7	652.3	662.5	662.5
75°	57.1	71.3	130.5	152.9	389.3	468.8	493.3	515.7	538.1	542.2	536.1
77.5°	51.0	63.2	112.1	128.4	303.7	371.0	391.4	403.6	421.9	426.0	428.1
80°	42.8	55.0	87.6	99.9	220.1	273.1	287.4	297.6	313.9	313.9	318.0
82.5°	32.6	42.8	63.2	71.3	148.8	187.5	199.8	205.9	216.1	216.1	216.1
85°	20.4	26.5	40.8	46.9	89.7	114.1	122.3	124.3	132.5	134.5	134.5
87.5°	10.2	14.3	26.5	28.5	46.9	59.1	59.1	63.2	63.2	61.2	59.1
90°	3.7	6.7	9.7	10.4	16.4	24.3	28.3	25.2	19.0	14.2	14.2
92.5°	14.9	40.3	65.7	72.0	101.3	140.3	159.8	140.0	100.5	70.9	68.1
95°	35.8	82.3	128.7	140.4	249.3	394.5	467.1	416.8	316.2	240.8	232.3
97.5°	62.0	102.9	143.9	154.2	335.8	577.9	699.0	667.2	603.7	556.0	539.7
100°	82.1	119.3	156.5	165.8	367.3	636.0	770.3	772.6	777.3	780.8	761.4
102.5°	99.3	134.0	168.7	177.4	381.7	654.2	790.5	830.9	912.0	972.7	956.1
105°	128.5	157.9	187.3	194.6	392.4	656.3	788.2	879.0	1060.5	1196.7	1187.8
107.5°	158.4	185.7	213.1	219.9	394.4	627.1	743.4	870.1	1123.3	1313.2	1315.4
110°	178.5	203.2	227.9	234.1	391.4	601.2	706.1	847.6	1130.8	1343.1	1352.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	198.3	221.8	245.4	251.3	391.5	578.6	672.1	817.0	1106.7	1324.0	1338.3
115°	228.1	249.9	271.6	277.0	395.2	552.6	631.4	771.0	1050.1	1259.4	1279.2
117.5°	257.6	277.4	297.1	302.1	402.5	536.4	603.4	729.4	981.3	1170.2	1192.1
120°	274.8	293.4	312.0	316.6	408.5	530.9	592.2	707.3	937.4	1110.1	1131.4
122.5°	291.6	310.4	329.1	333.8	417.1	528.1	583.6	687.2	894.5	1049.9	1071.0
125°	317.3	334.4	351.6	355.8	428.6	525.7	574.3	662.3	838.4	970.4	989.8
127.5°	338.3	355.6	372.8	377.1	440.2	524.4	566.4	642.0	793.2	906.6	923.0
130°	349.5	368.1	386.6	391.3	448.7	525.2	563.5	630.8	765.3	866.3	881.4
132.5°	361.0	379.7	398.2	402.9	455.5	525.7	560.8	621.0	741.6	831.9	845.4
135°	378.2	395.2	412.1	416.4	463.0	525.2	556.3	606.7	707.7	783.3	795.0
137.5°	395.8	412.5	429.3	433.5	474.2	528.5	555.6	598.2	683.5	747.5	757.1
140°	410.3	425.8	441.2	445.1	481.1	529.0	552.9	589.8	663.5	718.8	727.7
142.5°	421.6	435.9	450.2	453.7	486.8	530.9	552.9	585.3	650.0	698.6	706.3
145°	438.8	451.2	463.6	466.7	494.2	530.9	549.3	575.8	628.7	668.3	674.1
147.5°	455.9	468.0	480.1	483.2	505.2	534.6	549.3	570.0	611.7	643.0	647.8
150°	467.1	478.0	489.0	491.8	510.9	536.5	549.3	566.8	602.0	628.4	632.4
152.5°	478.7	487.0	495.3	497.4	514.6	537.7	549.3	564.3	594.3	616.9	619.8
155°	495.9	502.0	508.1	509.7	522.8	540.4	549.3	561.2	585.1	603.1	605.0
157.5°	508.5	514.6	520.5	522.0	531.1	543.2	549.3	558.6	577.1	591.1	592.5
160°	517.1	521.8	526.4	527.6	534.8	544.4	549.3	557.2	573.1	585.1	585.9
162.5°	525.7	529.3	532.7	533.6	538.8	545.8	549.3	556.0	569.4	579.5	580.2
165°	535.0	538.3	541.4	542.2	544.5	547.6	549.3	554.1	563.7	570.9	571.7
167.5°	543.6	545.2	546.6	547.0	549.0	551.7	552.9	556.1	562.4	567.2	567.5
170°	549.3	550.8	552.2	552.6	552.7	552.9	552.9	556.1	562.4	567.2	567.2
172.5°	552.2	552.5	552.9	552.9	552.9	552.9	552.9	555.4	560.4	564.2	563.9
175°	556.3	556.3	556.3	556.3	555.2	553.7	552.9	554.6	557.7	560.1	560.1
177.5°	556.3	556.3	556.3	556.3	555.4	554.3	553.7	555.0	557.5	559.4	559.0
180°	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	633.9	633.9
2.5°	676.7	672.7
5°	870.4	874.5
7.5°	1172.1	1170.0
10°	1457.4	1475.8
12.5°	1665.3	1669.4
15°	1791.7	1799.8
17.5°	1840.6	1842.6
20°	1842.6	1838.5
22.5°	1820.2	1816.1
25°	1793.7	1791.7
27.5°	1769.2	1771.3
30°	1759.1	1765.2
32.5°	1759.1	1769.2
35°	1763.1	1773.3
37.5°	1761.1	1773.3
40°	1752.9	1767.2
42.5°	1730.5	1740.7
45°	1695.9	1708.1
47.5°	1651.0	1659.2
50°	1594.0	1602.1
52.5°	1522.6	1524.7
55°	1437.0	1445.2
57.5°	1345.3	1347.3
60°	1243.4	1249.5
62.5°	1135.4	1135.4
65°	1021.2	1025.3
67.5°	903.0	913.2
70°	782.7	784.8
72.5°	664.5	664.5
75°	542.2	544.2
77.5°	426.0	426.0
80°	315.9	318.0
82.5°	218.1	222.2
85°	136.6	136.6
87.5°	63.2	57.1
90°	14.2	14.2
92.5°	56.8	45.5
95°	198.1	163.9
97.5°	474.7	409.6
100°	683.8	606.3
102.5°	889.7	823.3
105°	1152.1	1116.4
107.5°	1324.0	1332.6
110°	1389.5	1426.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	1395.4	1452.5
115°	1358.4	1437.5
117.5°	1279.9	1367.7
120°	1216.7	1302.0
122.5°	1155.1	1239.3
125°	1067.3	1144.8
127.5°	988.3	1053.7
130°	941.8	1002.1
132.5°	899.5	953.6
135°	841.6	888.3
137.5°	795.2	833.4
140°	763.4	799.1
142.5°	737.0	767.7
145°	697.4	720.6
147.5°	667.0	686.2
150°	647.9	663.5
152.5°	631.6	643.4
155°	612.8	620.6
157.5°	597.9	603.4
160°	589.0	592.2
162.5°	583.2	586.2
165°	574.9	578.0
167.5°	568.8	570.1
170°	567.2	567.2
172.5°	562.7	561.5
175°	560.1	560.1
177.5°	557.7	556.3
180°	556.3	556.3



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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	6.42	7.40	7.30	8.30	9.46	19.58	20.56	20.46	21.47	22.62
	3H	7.13	8.01	8.02	8.93	10.11	21.42	22.31	22.32	23.22	24.40
	4H	7.43	8.27	8.34	9.19	10.38	22.07	22.91	22.98	23.83	25.02
	6H	7.69	8.46	8.61	9.39	10.59	22.50	23.27	23.42	24.20	25.41
	8H	7.76	8.50	8.69	9.44	10.65	22.63	23.36	23.55	24.31	25.51
	12H	7.78	8.48	8.72	9.43	10.65	22.70	23.40	23.63	24.34	25.56
4H	2H	13.64	14.47	14.55	15.39	16.58	19.87	20.71	20.78	21.63	22.82
	3H	15.22	15.92	16.14	16.87	18.07	21.92	22.62	22.84	23.57	24.78
	4H	15.32	15.96	16.25	16.90	18.13	22.69	23.33	23.62	24.28	25.51
	6H	15.33	15.89	16.28	16.86	18.09	23.23	23.79	24.18	24.76	25.99
	8H	15.31	15.83	16.26	16.80	18.04	23.39	23.91	24.35	24.88	26.12
	12H	15.28	15.74	16.25	16.73	17.98	23.49	23.96	24.46	24.94	26.19
8H	4H	16.77	17.29	17.72	18.25	19.49	22.76	23.28	23.71	24.24	25.49
	6H	17.02	17.45	17.99	18.45	19.69	23.39	23.82	24.37	24.83	26.07
	8H	17.04	17.42	18.02	18.41	19.67	23.61	23.99	24.60	24.99	26.25
	12H	17.01	17.34	18.00	18.33	19.64	23.76	24.09	24.75	25.08	26.39
12H	4H	16.92	17.38	17.89	18.37	19.62	22.72	23.19	23.69	24.17	25.42
	6H	17.27	17.66	18.26	18.65	19.91	23.38	23.76	24.36	24.75	26.01
	8H	17.35	17.68	18.34	18.67	19.98	23.61	23.94	24.60	24.93	26.24