

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: P937383

Luminaire Tested: SQ4-FB-075U-125D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937383
REPORT IS A COMBINATION OF REPORTS P933504 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

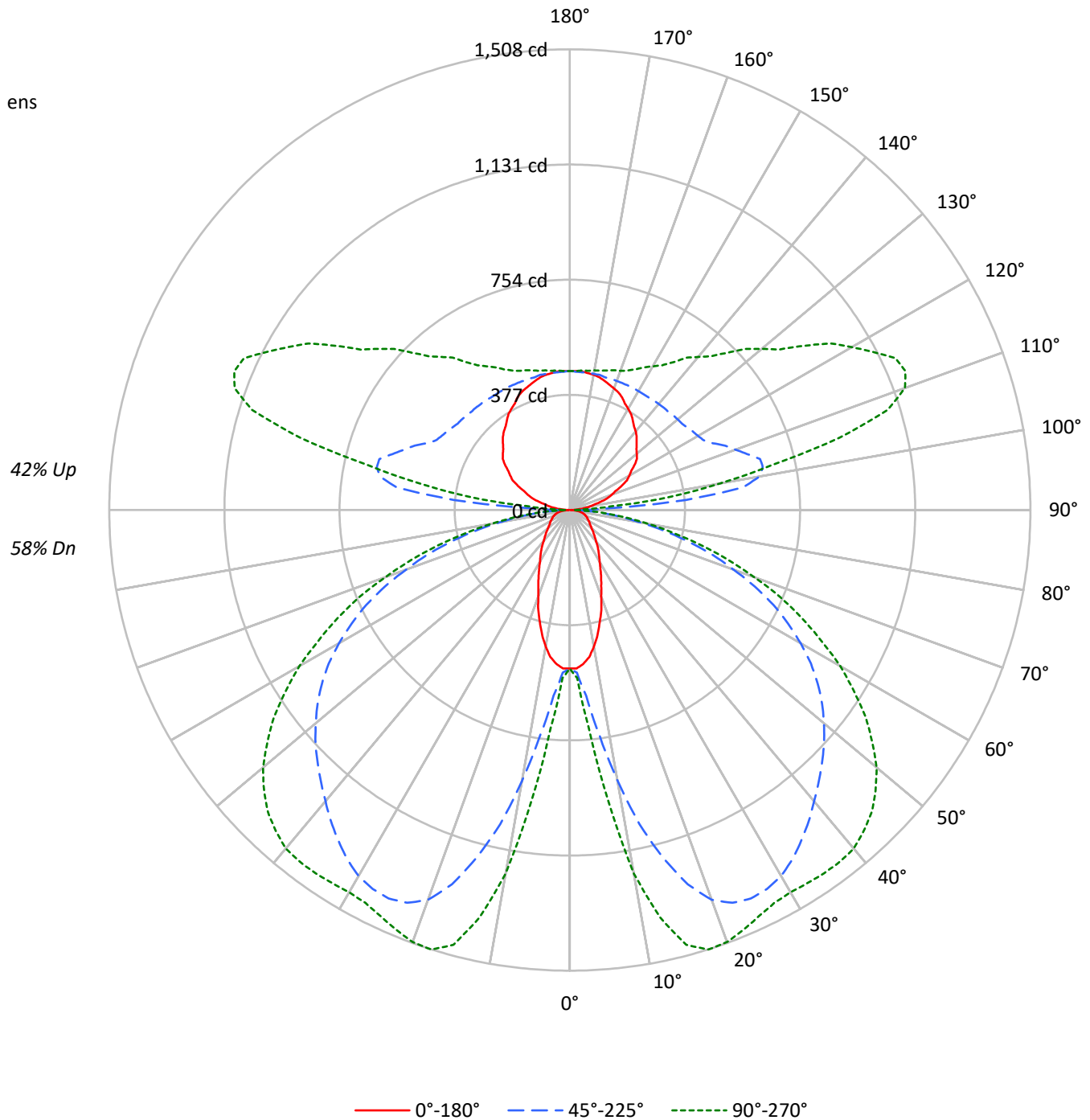
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6968.1 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62
Input Voltage (V): NR
Input Current (A_{in}): 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°	4814	4814	4814
5°	4698	5560	6471
10°	4257	8099	10729
15°	3614	10575	12955
20°	2939	12245	13203
25°	2449	12805	12936
30°	2062	12876	12911
35°	1820	12651	13244
40°	1584	12363	13590
45°	1431	12149	13643
50°	1311	11955	13417
55°	1251	11673	12822
60°	1277	11146	11884
65°	1321	10351	10593
70°	1396	9008	8950
75°	1531	7327	6984
80°	1638	5064	4706
85°	1383	2672	2409

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.0
10°-20°	297.5	4.3
20°-30°	520.3	7.5
30°-40°	669.8	9.6
40°-50°	748.2	10.7
50°-60°	716.6	10.3
60°-70°	567.9	8.1
70°-80°	333.9	4.8
80°-90°	94.5	1.4
90°-100°	222.0	3.2
100°-110°	583.6	8.4
110°-120°	605.2	8.7
120°-130°	485.4	7.0
130°-140°	380.9	5.5
140°-150°	292.3	4.2
150°-160°	210.5	3.0
160°-170°	128.8	1.8
170°-180°	43.5	0.6
0°-30°	884.9	12.7
0°-40°	1554.7	22.3
0°-60°	3019.5	43.3
0°-90°	4015.8	57.6
90°-120°	1410.8	20.2
90°-150°	2569.5	36.9
90°-180°	2952.0	42.4
0°-180°	6968.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	506	542	611	691	716	47
15°	379	699	1178	1428	1473	105
25°	242	792	1403	1465	1467	111
35°	164	757	1321	1396	1452	102
45°	112	604	1168	1338	1398	86
55°	80	384	991	1151	1183	73
65°	63	204	736	828	839	63
75°	47	125	404	444	446	49
85°	17	38	100	110	112	18
90°	3	9	23	12	12	4
95°	29	115	382	197	134	33
105°	105	159	645	980	914	111
115°	187	227	517	1031	1177	184
125°	260	291	470	794	937	231
135°	310	341	455	641	727	240
145°	359	382	450	547	590	225
155°	406	417	450	494	508	186
165°	438	444	450	467	473	124
175°	455	455	453	458	458	43
180°	455	455	455	455	455	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8
2.5°	518.8	518.8	522.2	523.9	527.2	528.9	532.2	535.6	545.6	547.2	550.6
5°	505.5	512.2	533.9	542.2	565.6	597.3	610.6	632.3	677.4	690.7	699.1
7.5°	485.5	500.5	553.9	567.2	625.6	709.0	744.1	790.9	862.6	897.6	926.0
10°	453.8	485.5	580.6	612.3	707.4	834.2	899.2	964.3	1072.8	1121.2	1139.5
12.5°	418.8	470.5	609.0	652.3	789.2	974.4	1052.8	1124.5	1248.0	1313.1	1323.0
15°	378.7	448.8	635.7	699.1	875.9	1091.1	1177.9	1266.3	1381.5	1428.1	1439.9
17.5°	343.7	432.2	660.7	727.5	942.6	1196.2	1284.7	1358.1	1451.5	1483.2	1491.5
20°	300.3	405.4	677.4	764.2	1012.7	1273.0	1358.1	1414.8	1478.2	1498.2	1501.6
22.5°	268.6	377.0	687.3	777.5	1059.5	1319.7	1391.4	1436.5	1479.9	1486.6	1488.2
25°	242.0	345.4	685.8	792.4	1099.5	1348.1	1403.2	1436.5	1461.5	1464.9	1464.9
27.5°	216.9	310.3	679.1	795.8	1129.5	1354.8	1398.1	1421.5	1433.2	1439.9	1439.9
30°	195.2	277.0	662.4	789.2	1142.9	1348.1	1383.1	1394.8	1406.4	1416.5	1421.5
32.5°	178.6	245.2	637.4	775.8	1144.5	1331.4	1356.4	1363.0	1379.8	1403.2	1411.5
35°	163.5	213.6	609.0	757.4	1134.5	1304.7	1321.3	1328.0	1361.4	1396.5	1408.1
37.5°	148.5	190.2	572.3	725.8	1119.5	1273.0	1284.7	1296.4	1348.1	1389.8	1403.2
40°	133.5	170.2	528.9	690.7	1096.1	1234.6	1244.6	1263.0	1331.4	1379.8	1393.1
42.5°	121.8	153.5	482.2	654.0	1066.1	1191.3	1206.3	1233.0	1311.4	1363.0	1378.1
45°	111.8	136.9	432.2	603.9	1027.7	1146.2	1167.9	1204.6	1288.0	1338.1	1351.4
47.5°	101.8	125.1	380.4	552.3	986.0	1101.2	1129.5	1171.3	1256.3	1304.7	1316.4
50°	93.5	113.5	328.6	497.1	940.9	1052.8	1086.2	1129.5	1216.2	1261.3	1276.4
52.5°	86.8	103.4	280.3	442.1	889.3	1002.7	1041.1	1086.2	1167.9	1211.3	1221.3
55°	80.1	95.1	238.6	383.8	835.8	949.3	991.0	1034.4	1114.5	1151.2	1157.9
57.5°	76.7	88.4	203.5	328.6	779.1	889.3	936.0	976.0	1051.1	1079.5	1086.2
60°	71.8	83.4	176.9	282.0	717.4	832.6	872.6	912.6	976.0	999.4	1004.3
62.5°	66.8	80.1	156.9	236.9	654.0	765.8	805.9	842.5	896.0	912.6	919.2
65°	63.4	76.7	141.8	203.5	588.9	695.7	735.8	767.5	810.9	827.5	830.9
67.5°	60.0	73.5	130.2	175.2	523.9	625.6	655.7	685.8	719.1	735.8	737.4
70°	55.0	70.1	120.1	155.2	457.1	545.6	570.6	602.2	629.0	637.4	642.4
72.5°	51.8	65.1	113.5	140.1	388.8	468.8	492.2	510.6	533.9	542.2	542.2
75°	46.7	58.4	106.8	125.1	318.7	383.8	403.8	422.1	440.4	443.8	438.8
77.5°	41.7	51.8	91.8	105.1	248.6	303.7	320.4	330.3	345.4	348.6	350.3
80°	35.0	45.1	71.8	81.7	180.1	223.5	235.3	243.5	257.0	257.0	260.3
82.5°	26.7	35.0	51.8	58.4	121.8	153.5	163.5	168.5	176.9	176.9	176.9
85°	16.7	21.7	33.3	38.4	73.5	93.5	100.1	101.8	108.5	110.1	110.1
87.5°	8.4	11.6	21.7	23.4	38.4	48.4	48.4	51.8	51.8	50.1	48.4
90°	3.1	5.5	8.0	8.6	13.5	20.0	23.3	20.7	15.5	11.6	11.6
92.5°	12.2	33.0	53.7	59.0	82.9	114.9	130.8	114.7	82.3	58.1	55.8
95°	29.4	67.4	105.5	115.0	204.1	322.9	382.4	341.2	258.8	197.1	190.1
97.5°	50.8	84.3	117.8	126.2	274.9	473.1	572.2	546.1	494.2	455.1	441.8
100°	67.2	97.6	128.1	135.7	300.6	520.6	630.5	632.4	636.3	639.1	623.3
102.5°	81.3	109.7	138.0	145.1	312.5	535.6	647.1	680.2	746.5	796.2	782.6
105°	105.1	129.2	153.2	159.2	321.2	537.3	645.2	719.6	868.2	979.6	972.3
107.5°	129.6	152.0	174.4	180.0	322.9	513.3	608.6	712.2	919.4	1074.9	1076.7
110°	146.1	166.3	186.6	191.7	320.4	492.1	578.0	693.8	925.6	1099.4	1107.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.3	181.6	200.8	205.7	320.5	473.7	550.2	668.8	905.9	1083.8	1095.5
115°	186.7	204.5	222.3	226.8	323.5	452.4	516.9	631.1	859.6	1031.0	1047.1
117.5°	210.9	227.1	243.2	247.3	329.5	439.1	493.9	597.0	803.2	957.9	975.8
120°	225.0	240.2	255.4	259.2	334.4	434.6	484.7	579.0	767.4	908.7	926.1
122.5°	238.7	254.1	269.4	273.2	341.4	432.3	477.7	562.5	732.2	859.5	876.8
125°	259.8	273.8	287.8	291.3	350.9	430.4	470.1	542.2	686.4	794.4	810.3
127.5°	277.0	291.1	305.2	308.7	360.4	429.3	463.7	525.6	649.4	742.2	755.6
130°	286.1	301.3	316.5	320.4	367.3	429.9	461.3	516.4	626.5	709.1	721.5
132.5°	295.6	310.8	326.0	329.8	372.9	430.4	459.1	508.4	607.1	681.0	692.1
135°	309.6	323.4	337.3	340.8	379.0	430.0	455.4	496.7	579.4	641.3	650.9
137.5°	324.0	337.7	351.4	354.9	388.2	432.7	454.8	489.7	559.6	611.9	619.7
140°	335.9	348.6	361.2	364.3	393.8	433.1	452.7	482.8	543.1	588.3	595.6
142.5°	345.1	356.7	368.4	371.3	398.4	434.6	452.7	479.2	532.1	571.9	578.2
145°	359.1	369.4	379.5	382.1	404.6	434.6	449.6	471.3	514.6	547.1	551.9
147.5°	373.2	383.1	393.0	395.5	413.5	437.6	449.6	466.7	500.8	526.3	530.3
150°	382.4	391.3	400.3	402.6	418.3	439.2	449.6	464.0	492.8	514.4	517.6
152.5°	391.8	398.6	405.4	407.1	421.3	440.2	449.6	461.9	486.5	504.9	507.3
155°	405.9	411.0	415.9	417.2	428.0	442.4	449.6	459.4	478.9	493.6	495.2
157.5°	416.3	421.2	426.1	427.3	434.7	444.7	449.6	457.2	472.4	483.8	484.9
160°	423.3	427.1	430.9	431.9	437.8	445.7	449.6	456.1	469.2	479.0	479.6
162.5°	430.4	433.2	436.1	436.8	441.0	446.8	449.6	455.1	466.1	474.4	475.0
165°	438.0	440.5	443.1	443.8	445.8	448.3	449.6	453.6	461.4	467.4	468.1
167.5°	445.0	446.2	447.4	447.7	449.4	451.6	452.7	455.2	460.5	464.3	464.6
170°	449.6	450.8	452.1	452.4	452.5	452.6	452.7	455.2	460.5	464.3	464.3
172.5°	452.1	452.4	452.6	452.7	452.7	452.7	452.7	454.7	458.8	461.8	461.6
175°	455.4	455.4	455.4	455.4	454.5	453.3	452.7	454.0	456.5	458.5	458.5
177.5°	455.4	455.4	455.4	455.4	454.7	453.8	453.3	454.3	456.3	457.9	457.6
180°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	518.8	518.8
2.5°	553.9	550.6
5°	712.4	715.7
7.5°	959.4	957.7
10°	1192.9	1207.9
12.5°	1363.0	1366.4
15°	1466.6	1473.2
17.5°	1506.6	1508.3
20°	1508.3	1504.9
22.5°	1489.8	1486.6
25°	1468.2	1466.6
27.5°	1448.1	1449.8
30°	1439.9	1444.9
32.5°	1439.9	1448.1
35°	1443.2	1451.5
37.5°	1441.5	1451.5
40°	1434.8	1446.5
42.5°	1416.5	1424.8
45°	1388.1	1398.1
47.5°	1351.4	1358.1
50°	1304.7	1311.4
52.5°	1246.3	1248.0
55°	1176.2	1182.9
57.5°	1101.2	1102.8
60°	1017.7	1022.8
62.5°	929.3	929.3
65°	835.8	839.2
67.5°	739.1	747.5
70°	640.7	642.4
72.5°	543.9	543.9
75°	443.8	445.5
77.5°	348.6	348.6
80°	258.6	260.3
82.5°	178.6	181.8
85°	111.8	111.8
87.5°	51.8	46.7
90°	11.6	11.6
92.5°	46.5	37.3
95°	162.2	134.2
97.5°	388.6	335.3
100°	559.9	496.4
102.5°	728.3	673.9
105°	943.1	913.9
107.5°	1083.8	1090.9
110°	1137.4	1167.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1142.3	1189.0
115°	1112.0	1176.8
117.5°	1047.7	1119.6
120°	996.0	1065.8
122.5°	945.6	1014.5
125°	873.7	937.1
127.5°	809.0	862.6
130°	771.0	820.4
132.5°	736.3	780.6
135°	689.0	727.2
137.5°	651.0	682.2
140°	624.9	654.1
142.5°	603.2	628.4
145°	570.9	589.9
147.5°	546.0	561.8
150°	530.4	543.2
152.5°	517.0	526.6
155°	501.6	508.0
157.5°	489.5	493.9
160°	482.2	484.7
162.5°	477.4	479.9
165°	470.6	473.2
167.5°	465.7	466.8
170°	464.3	464.3
172.5°	460.7	459.7
175°	458.5	458.5
177.5°	456.5	455.4
180°	455.4	455.4



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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	7.12	8.10	8.00	9.00	10.16	20.26	21.24	21.14	22.14	23.30
	3H	7.83	8.72	8.73	9.63	10.81	22.09	22.97	22.98	23.89	25.07
	4H	8.14	8.97	9.04	9.90	11.08	22.73	23.57	23.64	24.49	25.68
	6H	8.40	9.17	9.31	10.09	11.30	23.16	23.93	24.07	24.85	26.06
	8H	8.47	9.20	9.39	10.15	11.35	23.27	24.01	24.20	24.95	26.16
	12H	8.49	9.19	9.42	10.13	11.36	23.34	24.04	24.27	24.98	26.21
4H	2H	14.32	15.16	15.24	16.08	17.27	20.55	21.38	21.46	22.31	23.49
	3H	15.90	16.60	16.83	17.56	18.76	22.59	23.29	23.51	24.24	25.45
	4H	16.00	16.64	16.94	17.59	18.82	23.35	23.99	24.29	24.94	26.17
	6H	16.02	16.58	16.97	17.55	18.78	23.88	24.44	24.83	25.41	26.64
	8H	16.00	16.52	16.95	17.49	18.73	24.04	24.56	24.99	25.53	26.77
	12H	15.97	16.43	16.94	17.42	18.67	24.13	24.60	25.11	25.59	26.83
8H	4H	17.45	17.97	18.40	18.93	20.18	23.42	23.94	24.37	24.91	26.15
	6H	17.70	18.13	18.67	19.13	20.38	24.04	24.47	25.02	25.48	26.72
	8H	17.72	18.10	18.70	19.09	20.35	24.26	24.64	25.25	25.63	26.89
	12H	17.69	18.03	18.68	19.02	20.32	24.40	24.74	25.39	25.73	27.03
12H	4H	17.60	18.06	18.57	19.05	20.30	23.38	23.85	24.35	24.83	26.08
	6H	17.95	18.34	18.94	19.33	20.59	24.03	24.41	25.02	25.41	26.67
	8H	18.03	18.36	19.02	19.35	20.66	24.26	24.59	25.25	25.58	26.89