

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: P937119

Luminaire Tested: SQ4-FB-075U-075D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937119
REPORT IS A COMBINATION OF REPORTS P933510 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

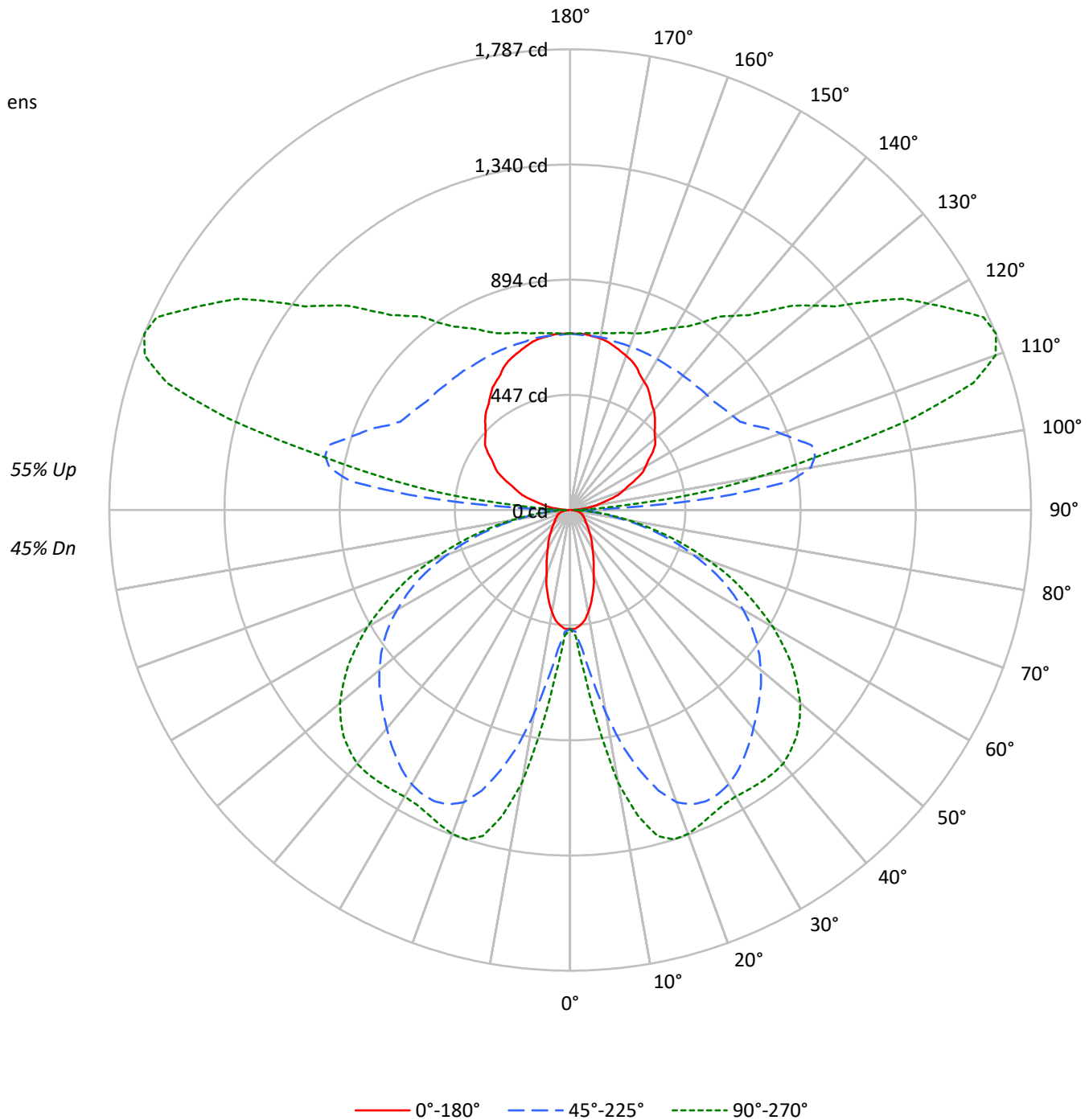
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8005.7 lumens
Efficiency: N/A
Efficacy: 125.9 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): 63.6
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				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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45	45	45	45
1	96	92	88	84	88	84	80	77	70	67	65	57	55	53	44	43	42	37	37	37	37
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35	30	30	30	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25	25	25	25
4	72	61	53	47	65	56	49	43	46	41	37	38	34	31	30	27	24	21	21	21	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	26	23	21	17	17	17	17
6	60	48	40	34	55	44	37	31	37	31	27	30	26	22	24	21	18	15	15	15	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	21	18	16	13	13	13	13
8	51	39	31	26	47	36	29	24	30	24	21	25	20	17	20	16	14	11	11	11	11
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10	10	10	10
10	44	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9	9	9	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2851	2851	2851
5°	2784	3295	3833
10°	2525	4801	6354
15°	2145	6271	7673
20°	1746	7266	7820
25°	1456	7602	7661
30°	1227	7648	7646
35°	1084	7519	7844
40°	945	7351	8048
45°	854	7228	8080
50°	783	7117	7946
55°	749	6955	7593
60°	766	6647	7037
65°	796	6180	6273
70°	846	5385	5300
75°	934	4386	4136
80°	1012	3039	2787
85°	882	1609	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°	59.6	0.7
10°-20°	264.2	3.3
20°-30°	462.2	5.8
30°-40°	595.0	7.4
40°-50°	664.6	8.3
50°-60°	636.5	8.0
60°-70°	504.4	6.3
70°-80°	296.6	3.7
80°-90°	85.0	1.1
90°-100°	333.7	4.2
100°-110°	877.2	11.0
110°-120°	909.6	11.4
120°-130°	729.6	9.1
130°-140°	572.5	7.2
140°-150°	439.4	5.5
150°-160°	316.4	4.0
160°-170°	193.6	2.4
170°-180°	65.4	0.8
0°-30°	786.1	9.8
0°-40°	1381.1	17.3
0°-60°	2682.2	33.5
0°-90°	3568.2	44.6
90°-120°	2120.5	26.5
90°-150°	3862.0	48.2
90°-180°	4437.0	55.4
0°-180°	8005.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	449	482	542	614	636	41
15°	336	621	1046	1269	1309	94
25°	215	704	1246	1301	1303	99
35°	145	673	1174	1240	1289	91
45°	99	536	1037	1189	1242	77
55°	71	341	880	1023	1051	65
65°	56	181	654	735	745	56
75°	42	111	359	394	396	43
85°	15	34	89	98	99	16
90°	4	13	35	18	18	5
95°	44	173	575	296	202	49
105°	158	239	970	1472	1374	168
115°	281	341	777	1550	1769	277
125°	390	438	707	1194	1409	347
135°	465	512	684	964	1093	360
145°	540	574	676	822	887	338
155°	610	627	676	742	764	280
165°	658	667	676	702	711	186
175°	684	684	680	689	689	65
180°	684	684	684	684	684	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	460.9	460.9	460.9	460.9	460.9	460.9	460.9	460.9	460.9	460.9	460.9
2.5°	460.9	460.9	463.9	465.3	468.3	469.8	472.8	475.7	484.6	486.1	489.1
5°	449.0	455.0	474.2	481.6	502.4	530.6	542.4	561.7	601.7	613.5	621.0
7.5°	431.3	444.6	492.0	503.9	555.8	629.8	661.0	702.5	766.2	797.3	822.5
10°	403.1	431.3	515.7	543.9	628.4	741.0	798.8	856.6	952.9	995.9	1012.2
12.5°	372.0	417.9	540.9	579.5	701.0	865.5	935.1	998.9	1108.5	1166.4	1175.3
15°	336.4	398.7	564.6	621.0	778.0	969.2	1046.3	1124.9	1227.2	1268.7	1279.1
17.5°	305.3	383.8	586.9	646.2	837.3	1062.6	1141.2	1206.4	1289.4	1317.6	1325.0
20°	266.8	360.1	601.7	678.8	899.6	1130.9	1206.4	1256.8	1313.2	1330.9	1333.9
22.5°	238.6	334.9	610.6	690.6	941.1	1172.4	1236.1	1276.1	1314.6	1320.6	1322.0
25°	214.9	306.8	609.1	704.0	976.6	1197.6	1246.5	1276.1	1298.3	1301.3	1301.3
27.5°	192.7	275.7	603.2	706.9	1003.3	1203.5	1242.0	1262.8	1273.1	1279.1	1279.1
30°	173.4	246.0	588.4	701.0	1015.2	1197.6	1228.7	1239.1	1249.4	1258.3	1262.8
32.5°	158.6	217.9	566.1	689.1	1016.7	1182.7	1205.0	1210.9	1225.7	1246.5	1253.9
35°	145.2	189.7	540.9	672.8	1007.8	1159.0	1173.8	1179.8	1209.4	1240.5	1250.9
37.5°	131.9	168.9	508.3	644.7	994.4	1130.9	1141.2	1151.6	1197.6	1234.6	1246.5
40°	118.6	151.2	469.8	613.5	973.7	1096.7	1105.6	1121.9	1182.7	1225.7	1237.6
42.5°	108.2	136.3	428.3	580.9	947.0	1058.1	1071.5	1095.2	1165.0	1210.9	1224.2
45°	99.3	121.5	383.8	536.5	912.9	1018.1	1037.4	1070.0	1144.2	1188.7	1200.5
47.5°	90.4	111.2	337.9	490.5	875.9	978.1	1003.3	1040.4	1115.9	1159.0	1169.4
50°	83.0	100.8	292.0	441.6	835.8	935.1	964.8	1003.3	1080.4	1120.4	1133.8
52.5°	77.1	91.9	249.0	392.7	789.9	890.7	924.8	964.8	1037.4	1075.9	1084.8
55°	71.1	84.5	211.9	340.9	742.5	843.3	880.3	918.8	990.0	1022.6	1028.5
57.5°	68.2	78.5	180.8	292.0	692.1	789.9	831.4	867.0	933.7	958.9	964.8
60°	63.7	74.1	157.1	250.5	637.3	739.5	775.1	810.7	867.0	887.7	892.2
62.5°	59.3	71.1	139.3	210.4	580.9	680.2	715.8	748.4	795.8	810.7	816.6
65°	56.3	68.2	126.0	180.8	523.1	618.0	653.6	681.7	720.3	735.1	738.0
67.5°	53.4	65.2	115.6	155.6	465.3	555.8	582.4	609.1	638.7	653.6	655.0
70°	48.9	62.2	106.7	137.8	406.1	484.6	506.8	535.0	558.7	566.1	570.6
72.5°	45.9	57.8	100.8	124.5	345.3	416.4	437.2	453.5	474.2	481.6	481.6
75°	41.5	51.9	94.8	111.2	283.1	340.9	358.6	374.9	391.2	394.2	389.8
77.5°	37.0	45.9	81.5	93.4	220.8	269.7	284.5	293.4	306.8	309.7	311.2
80°	31.1	40.0	63.7	72.6	160.1	198.6	209.0	216.4	228.2	228.2	231.2
82.5°	23.7	31.1	45.9	51.9	108.2	136.3	145.2	149.7	157.1	157.1	157.1
85°	14.8	19.3	29.6	34.1	65.2	83.0	88.9	90.4	96.3	97.8	97.8
87.5°	7.4	10.4	19.3	20.7	34.1	43.0	43.0	45.9	45.9	44.5	43.0
90°	4.5	8.2	12.0	12.8	20.2	29.9	34.9	31.0	23.3	17.5	17.5
92.5°	18.4	49.6	80.8	88.6	124.6	172.6	196.6	172.3	123.7	87.2	83.8
95°	44.1	101.3	158.4	172.7	306.7	485.4	574.7	512.9	389.1	296.3	285.8
97.5°	76.3	126.7	177.0	189.7	413.2	711.1	860.1	820.9	742.8	684.1	664.0
100°	101.1	146.8	192.6	204.0	451.9	782.5	947.8	950.7	956.4	960.6	936.8
102.5°	122.2	164.9	207.6	218.2	469.7	804.9	972.6	1022.4	1122.1	1196.8	1176.3
105°	158.1	194.2	230.4	239.4	482.8	807.5	969.8	1081.5	1304.9	1472.4	1461.4
107.5°	194.8	228.5	262.2	270.6	485.3	771.5	914.7	1070.5	1382.1	1615.8	1618.4
110°	219.6	250.1	280.4	288.0	481.6	739.7	868.7	1042.9	1391.3	1652.5	1664.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	243.9	272.9	301.9	309.1	481.7	711.9	827.0	1005.2	1361.7	1629.0	1646.6
115°	280.7	307.5	334.1	340.9	486.2	679.9	776.9	948.6	1292.0	1549.6	1573.9
117.5°	317.0	341.3	365.6	371.7	495.3	660.0	742.4	897.4	1207.3	1439.8	1466.8
120°	338.1	361.0	383.8	389.6	502.6	653.3	728.6	870.2	1153.4	1365.8	1392.1
122.5°	358.8	381.9	405.0	410.7	513.2	649.8	718.1	845.5	1100.5	1291.8	1317.7
125°	390.5	411.5	432.5	437.8	527.4	646.8	706.6	814.9	1031.6	1194.0	1217.8
127.5°	416.2	437.5	458.6	464.0	541.6	645.2	696.9	789.9	975.9	1115.5	1135.6
130°	430.0	452.9	475.7	481.5	552.1	646.3	693.3	776.1	941.7	1065.9	1084.4
132.5°	444.2	467.1	489.9	495.7	560.5	646.8	690.0	764.1	912.4	1023.6	1040.2
135°	465.3	486.2	507.0	512.3	569.7	646.3	684.5	746.5	870.7	963.8	978.1
137.5°	487.0	507.5	528.2	533.3	583.4	650.2	683.6	736.1	841.0	919.7	931.5
140°	504.9	523.8	542.9	547.6	591.9	650.9	680.3	725.7	816.4	884.4	895.3
142.5°	518.7	536.3	553.9	558.2	598.9	653.2	680.3	720.2	799.8	859.6	869.0
145°	539.8	555.2	570.4	574.2	608.1	653.3	675.8	708.4	773.5	822.3	829.4
147.5°	560.9	575.8	590.7	594.5	621.6	657.7	675.8	701.4	752.7	791.1	797.0
150°	574.7	588.2	601.7	605.1	628.7	660.1	675.8	697.4	740.7	773.2	778.0
152.5°	588.9	599.2	609.4	612.0	633.2	661.6	675.8	694.3	731.2	759.0	762.6
155°	610.1	617.6	625.2	627.1	643.3	664.9	675.8	690.5	720.0	742.0	744.4
157.5°	625.7	633.1	640.4	642.3	653.5	668.4	675.8	687.3	710.1	727.3	728.9
160°	636.3	642.0	647.7	649.1	658.0	669.9	675.8	685.6	705.1	719.9	720.8
162.5°	646.8	651.2	655.4	656.5	662.9	671.5	675.8	684.1	700.6	713.0	713.9
165°	658.3	662.3	666.1	667.1	670.0	673.8	675.8	681.7	693.6	702.5	703.5
167.5°	668.9	670.8	672.5	673.0	675.5	678.8	680.3	684.2	692.0	697.8	698.2
170°	675.8	677.7	679.4	679.9	680.0	680.2	680.3	684.2	692.0	697.8	697.8
172.5°	679.4	679.8	680.2	680.3	680.3	680.3	680.3	683.4	689.5	694.2	693.8
175°	684.5	684.5	684.5	684.5	683.1	681.2	680.3	682.3	686.2	689.1	689.1
177.5°	684.5	684.5	684.5	684.5	683.4	682.0	681.3	682.9	686.0	688.2	687.8
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	460.9	460.9
2.5°	492.0	489.1
5°	632.8	635.8
7.5°	852.2	850.7
10°	1059.6	1073.0
12.5°	1210.9	1213.9
15°	1302.8	1308.7
17.5°	1338.3	1339.8
20°	1339.8	1336.9
22.5°	1323.5	1320.6
25°	1304.3	1302.8
27.5°	1286.5	1288.0
30°	1279.1	1283.5
32.5°	1279.1	1286.5
35°	1282.0	1289.4
37.5°	1280.5	1289.4
40°	1274.6	1285.0
42.5°	1258.3	1265.7
45°	1233.1	1242.0
47.5°	1200.5	1206.4
50°	1159.0	1165.0
52.5°	1107.1	1108.5
55°	1044.8	1050.7
57.5°	978.1	979.6
60°	904.0	908.5
62.5°	825.5	825.5
65°	742.5	745.4
67.5°	656.5	663.9
70°	569.1	570.6
72.5°	483.1	483.1
75°	394.2	395.7
77.5°	309.7	309.7
80°	229.7	231.2
82.5°	158.6	161.5
85°	99.3	99.3
87.5°	45.9	41.5
90°	17.5	17.5
92.5°	69.9	56.0
95°	243.7	201.7
97.5°	584.0	504.0
100°	841.4	746.0
102.5°	1094.7	1013.0
105°	1417.5	1373.6
107.5°	1629.0	1639.6
110°	1709.6	1755.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1716.8	1787.1
115°	1671.3	1768.7
117.5°	1574.8	1682.8
120°	1497.0	1601.9
122.5°	1421.2	1524.8
125°	1313.2	1408.6
127.5°	1216.0	1296.5
130°	1158.7	1233.0
132.5°	1106.8	1173.3
135°	1035.5	1092.9
137.5°	978.4	1025.4
140°	939.3	983.2
142.5°	906.8	944.5
145°	858.1	886.6
147.5°	820.6	844.3
150°	797.2	816.4
152.5°	777.1	791.6
155°	753.9	763.5
157.5°	735.7	742.4
160°	724.7	728.6
162.5°	717.6	721.2
165°	707.3	711.2
167.5°	699.9	701.5
170°	697.8	697.8
172.5°	692.4	690.9
175°	689.1	689.1
177.5°	686.2	684.5
180°	684.5	684.5



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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	4.12	4.97	5.12	5.98	7.33	17.29	18.14	18.28	19.15	20.49
	3H	4.83	5.59	5.83	6.61	7.97	19.12	19.88	20.13	20.90	22.27
	4H	5.13	5.85	6.14	6.87	8.24	19.76	20.49	20.78	21.51	22.88
	6H	5.38	6.04	6.40	7.07	8.45	20.19	20.85	21.22	21.88	23.27
	8H	5.44	6.08	6.48	7.12	8.50	20.31	20.94	21.34	21.99	23.37
	12H	5.46	6.06	6.50	7.10	8.51	20.37	20.98	21.41	22.01	23.42
4H	2H	11.33	12.05	12.35	13.08	14.45	17.56	18.28	18.59	19.31	20.68
	3H	12.90	13.50	13.93	14.55	15.94	19.60	20.21	20.63	21.26	22.64
	4H	12.99	13.55	14.03	14.59	16.00	20.36	20.92	21.41	21.96	23.37
	6H	13.00	13.48	14.05	14.55	15.95	20.90	21.38	21.95	22.44	23.85
	8H	12.98	13.42	14.03	14.48	15.90	21.06	21.50	22.11	22.56	23.98
	12H	12.93	13.34	14.00	14.41	15.84	21.15	21.55	22.22	22.63	24.05
8H	4H	14.43	14.88	15.48	15.94	17.36	20.42	20.87	21.48	21.93	23.35
	6H	14.67	15.04	15.75	16.14	17.56	21.05	21.42	22.12	22.52	23.94
	8H	14.69	15.02	15.77	16.10	17.54	21.27	21.59	22.35	22.67	24.11
	12H	14.66	14.94	15.75	16.02	17.50	21.41	21.69	22.49	22.77	24.25
12H	4H	14.57	14.98	15.64	16.05	17.47	20.38	20.78	21.45	21.85	23.28
	6H	14.93	15.26	16.01	16.34	17.78	21.03	21.36	22.11	22.44	23.88
	8H	15.00	15.28	16.09	16.36	17.84	21.26	21.54	22.35	22.62	24.10