

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: P937261

Luminaire Tested: SQ4-FB-075U-100D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937261
REPORT IS A COMBINATION OF REPORTS P933511 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-100D-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

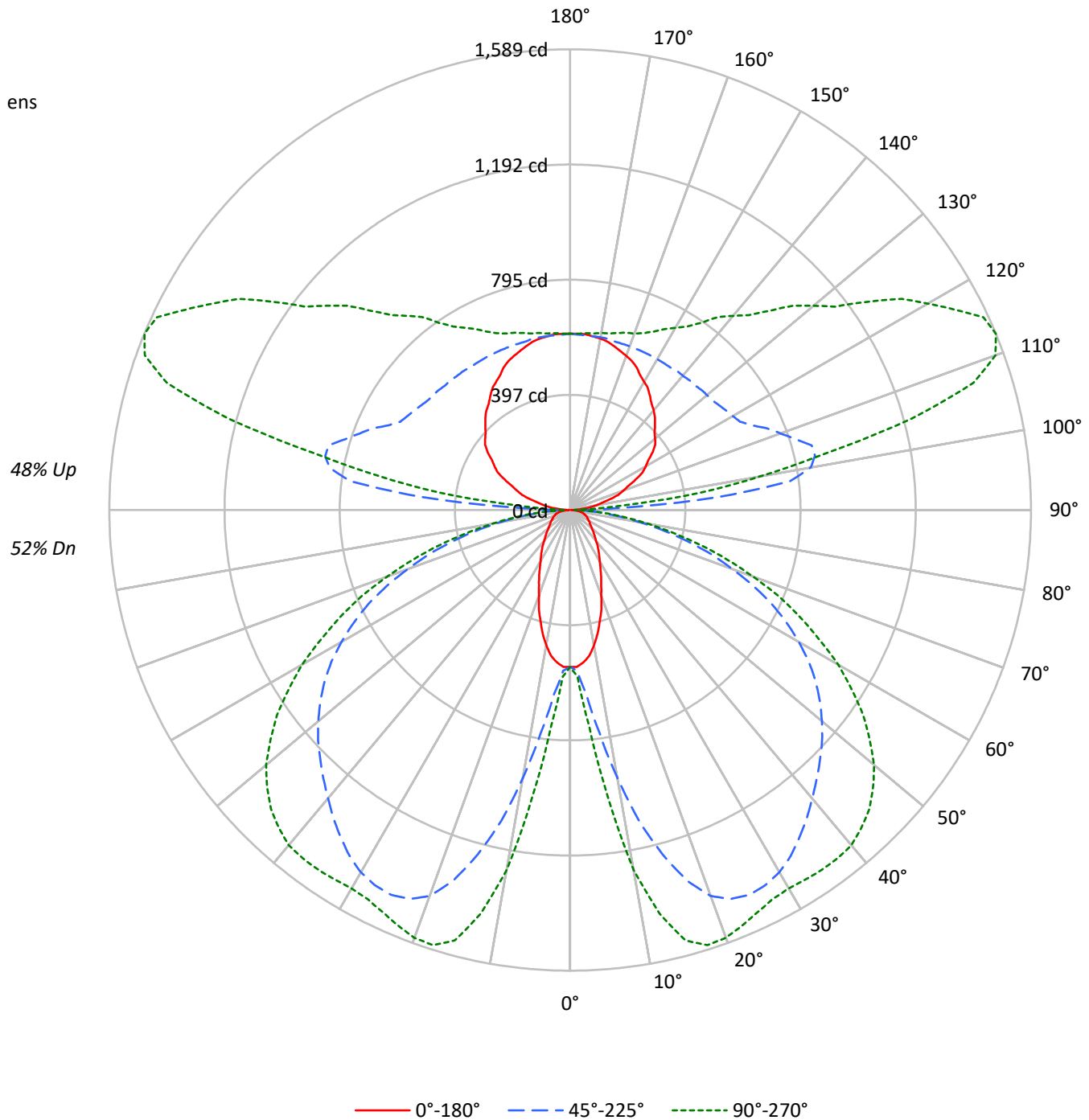
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8134.8 lumens
Efficiency: N/A
Efficacy: 105.9 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): 76.8
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

TEST NUMBER: P937261
CATALOG NUMBER: SQ4-FB-075U-100D-93050-1D-UNV-STD-W-6-3000K

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	0
RCR																		
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	93	89	85	90	86	82	79	73	70	68	61	59	57	50	49	47	42
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39	34
3	80	70	62	56	74	65	58	53	55	50	46	46	42	39	38	35	32	28
4	73	62	53	47	67	57	50	44	49	43	38	41	36	33	33	30	27	24
5	67	55	46	40	61	51	43	37	43	37	33	36	32	28	30	26	23	20
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	27	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24	29	25	21	24	20	18	15
8	52	39	31	26	48	37	29	24	31	26	21	27	22	19	22	18	16	13
9	49	36	28	23	45	33	26	22	29	23	19	24	20	16	20	17	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3349	3349	3349
5°	3270	3869	4501
10°	2965	5639	7462
15°	2519	7366	9010
20°	2050	8534	9184
25°	1710	8928	8997
30°	1441	8982	8979
35°	1273	8831	9212
40°	1109	8634	9452
45°	1003	8490	9489
50°	920	8359	9332
55°	880	8169	8918
60°	899	7807	8265
65°	934	7258	7367
70°	993	6325	6224
75°	1096	5152	4857
80°	1188	3569	3274
85°	1037	1890	1675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9489 cd/sqm



TEST NUMBER: P937261

CATALOG NUMBER: SQ4-FB-075U-100D-93050-1D-UNV-STD-W-6-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	0.9
10°-20°	310.3	3.8
20°-30°	542.8	6.7
30°-40°	698.8	8.6
40°-50°	780.5	9.6
50°-60°	747.6	9.2
60°-70°	592.5	7.3
70°-80°	348.4	4.3
80°-90°	99.1	1.2
90°-100°	296.6	3.6
100°-110°	779.8	9.6
110°-120°	808.6	9.9
120°-130°	648.6	8.0
130°-140°	508.9	6.3
140°-150°	390.6	4.8
150°-160°	281.3	3.5
160°-170°	172.1	2.1
170°-180°	58.1	0.7
0°-30°	923.2	11.3
0°-40°	1622.0	19.9
0°-60°	3150.1	38.7
0°-90°	4190.1	51.5
90°-120°	1885.0	23.2
90°-150°	3433.2	42.2
90°-180°	3945.0	48.5
0°-180°	8134.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	527	566	637	721	747	49
15°	395	729	1229	1490	1537	110
25°	252	827	1464	1528	1530	116
35°	171	790	1379	1457	1514	107
45°	117	630	1218	1396	1459	90
55°	84	400	1034	1201	1234	76
65°	66	212	768	863	876	66
75°	49	130	421	463	465	51
85°	17	40	104	115	117	18
90°	4	11	31	16	16	5
95°	39	154	511	263	179	44
105°	140	213	862	1309	1221	149
115°	250	303	691	1378	1572	246
125°	347	389	628	1061	1252	308
135°	414	455	608	857	972	320
145°	480	510	601	731	788	301
155°	542	558	601	660	679	249
165°	585	593	601	624	632	165
175°	608	608	605	613	613	58
180°	608	608	608	608	608	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3
2.5°	541.3	541.3	544.8	546.6	550.0	551.7	555.3	558.8	569.1	570.9	574.4
5°	527.4	534.4	557.0	565.7	590.0	623.2	637.0	659.7	706.7	720.6	729.3
7.5°	506.5	522.1	577.9	591.8	652.8	739.8	776.3	825.1	899.9	936.4	966.0
10°	473.4	506.5	605.8	638.8	738.0	870.3	938.2	1006.1	1119.2	1169.7	1188.9
12.5°	436.9	490.9	635.4	680.6	823.3	1016.5	1098.3	1173.1	1302.0	1369.9	1380.3
15°	395.1	468.2	663.2	729.3	913.8	1138.4	1228.9	1321.1	1441.2	1489.9	1502.2
17.5°	358.6	450.8	689.3	758.9	983.4	1248.1	1340.3	1416.9	1514.4	1547.4	1556.1
20°	313.3	423.0	706.7	797.2	1056.6	1328.1	1416.9	1476.1	1542.2	1563.1	1566.5
22.5°	280.3	393.4	717.1	811.1	1105.3	1376.8	1451.7	1498.6	1544.0	1550.9	1552.7
25°	252.4	360.3	715.4	826.8	1147.1	1406.4	1463.9	1498.6	1524.8	1528.2	1528.2
27.5°	226.3	323.7	708.4	830.3	1178.4	1413.4	1458.6	1483.0	1495.2	1502.2	1502.2
30°	203.7	289.0	691.0	823.3	1192.3	1406.4	1443.0	1455.2	1467.4	1477.7	1483.0
32.5°	186.3	255.8	664.9	809.4	1194.1	1389.0	1415.1	1422.1	1439.4	1463.9	1472.6
35°	170.6	222.8	635.4	790.2	1183.6	1361.2	1378.6	1385.5	1420.3	1456.9	1469.0
37.5°	154.9	198.4	597.1	757.2	1168.0	1328.1	1340.3	1352.5	1406.4	1449.9	1463.9
40°	139.2	177.5	551.7	720.6	1143.5	1288.0	1298.5	1317.6	1389.0	1439.4	1453.4
42.5°	127.1	160.1	503.0	682.4	1112.3	1242.8	1258.4	1286.3	1368.1	1422.1	1437.8
45°	116.6	142.7	450.8	630.1	1072.2	1195.8	1218.5	1256.8	1343.7	1396.0	1409.9
47.5°	106.2	130.5	396.9	576.2	1028.7	1148.8	1178.4	1221.9	1310.7	1361.2	1373.3
50°	97.5	118.4	342.9	518.7	981.7	1098.3	1133.2	1178.4	1268.9	1315.9	1331.6
52.5°	90.6	107.9	292.4	461.3	927.7	1046.1	1086.1	1133.2	1218.5	1263.7	1274.2
55°	83.5	99.2	248.9	400.3	872.1	990.4	1033.9	1079.2	1162.7	1201.0	1208.0
57.5°	80.1	92.2	212.4	342.9	812.9	927.7	976.5	1018.3	1096.6	1126.2	1133.2
60°	74.8	87.0	184.5	294.1	748.5	868.6	910.4	952.1	1018.3	1042.6	1047.8
62.5°	69.6	83.5	163.6	247.2	682.4	798.9	840.7	879.0	934.7	952.1	959.1
65°	66.1	80.1	148.0	212.4	614.5	725.8	767.6	800.7	846.0	863.4	866.8
67.5°	62.6	76.6	135.8	182.8	546.6	652.8	684.0	715.4	750.2	767.6	769.4
70°	57.4	73.1	125.3	161.9	476.9	569.1	595.3	628.3	656.2	664.9	670.1
72.5°	53.9	67.9	118.4	146.2	405.6	489.1	513.5	532.6	557.0	565.7	565.7
75°	48.7	61.0	111.4	130.5	332.4	400.3	421.2	440.4	459.5	463.0	457.8
77.5°	43.5	53.9	95.7	109.7	259.4	316.8	334.2	344.6	360.3	363.8	365.5
80°	36.5	47.0	74.8	85.3	188.0	233.3	245.4	254.1	268.1	268.1	271.6
82.5°	27.8	36.5	53.9	61.0	127.1	160.1	170.6	175.8	184.5	184.5	184.5
85°	17.4	22.7	34.8	40.1	76.6	97.5	104.4	106.2	113.1	114.9	114.9
87.5°	8.7	12.2	22.7	24.3	40.1	50.5	50.5	53.9	53.9	52.3	50.5
90°	4.0	7.3	10.6	11.4	17.9	26.6	31.0	27.6	20.7	15.5	15.5
92.5°	16.3	44.1	71.8	78.8	110.8	153.4	174.8	153.2	110.0	77.6	74.5
95°	39.2	90.0	140.8	153.5	272.6	431.5	510.9	455.9	345.9	263.4	254.1
97.5°	67.8	112.6	157.4	168.6	367.3	632.1	764.6	729.8	660.3	608.1	590.3
100°	89.9	130.5	171.2	181.4	401.7	695.6	842.6	845.1	850.2	854.0	832.8
102.5°	108.6	146.6	184.5	194.0	417.5	715.6	864.6	908.9	997.5	1063.9	1045.7
105°	140.5	172.7	204.8	212.8	429.2	717.8	862.1	961.4	1160.0	1308.9	1299.2
107.5°	173.2	203.2	233.1	240.6	431.4	685.9	813.1	951.6	1228.7	1436.4	1438.7
110°	195.2	222.3	249.3	256.0	428.1	657.6	772.3	927.1	1236.8	1469.0	1479.2



TEST NUMBER: P937261

CATALOG NUMBER: SQ4-FB-075U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	216.9	242.6	268.4	274.8	428.3	632.8	735.1	893.6	1210.5	1448.1	1463.8
115°	249.5	273.3	297.0	303.0	432.2	604.4	690.6	843.3	1148.6	1377.5	1399.1
117.5°	281.8	303.4	325.0	330.4	440.3	586.7	660.0	797.8	1073.3	1279.9	1303.9
120°	300.6	320.9	341.2	346.3	446.8	580.7	647.7	773.6	1025.3	1214.2	1237.5
122.5°	319.0	339.5	360.0	365.1	456.2	577.7	638.3	751.6	978.3	1148.4	1171.4
125°	347.1	365.8	384.5	389.2	468.8	575.0	628.2	724.4	917.0	1061.4	1082.6
127.5°	370.0	388.9	407.7	412.5	481.5	573.5	619.6	702.2	867.6	991.6	1009.5
130°	382.2	402.6	422.9	428.0	490.8	574.5	616.3	689.9	837.1	947.5	964.0
132.5°	394.9	415.3	435.5	440.6	498.3	575.0	613.4	679.3	811.1	909.9	924.7
135°	413.7	432.2	450.7	455.4	506.4	574.5	608.5	663.6	774.0	856.8	869.5
137.5°	432.9	451.2	469.5	474.1	518.6	578.0	607.7	654.3	747.6	817.6	828.1
140°	448.8	465.7	482.6	486.8	526.2	578.6	604.8	645.1	725.7	786.2	795.9
142.5°	461.1	476.7	492.4	496.2	532.4	580.6	604.8	640.2	711.0	764.1	772.6
145°	479.9	493.5	507.0	510.5	540.6	580.7	600.8	629.7	687.6	731.0	737.3
147.5°	498.6	511.9	525.1	528.5	552.5	584.7	600.8	623.5	669.1	703.3	708.5
150°	510.9	522.9	534.9	537.9	558.9	586.8	600.8	620.0	658.5	687.4	691.7
152.5°	523.6	532.7	541.7	544.0	562.9	588.1	600.8	617.2	650.0	674.7	678.0
155°	542.4	549.0	555.8	557.5	571.9	591.1	600.8	613.8	640.0	659.6	661.7
157.5°	556.2	562.8	569.3	571.0	580.9	594.2	600.8	610.9	631.2	646.5	648.0
160°	565.6	570.7	575.8	577.0	584.9	595.5	600.8	609.5	626.8	639.9	640.8
162.5°	575.0	578.9	582.7	583.6	589.3	597.0	600.8	608.1	622.8	633.9	634.7
165°	585.2	588.7	592.2	593.0	595.6	599.0	600.8	606.0	616.6	624.5	625.4
167.5°	594.6	596.3	597.9	598.3	600.5	603.4	604.8	608.2	615.2	620.3	620.7
170°	600.8	602.4	604.0	604.4	604.5	604.7	604.8	608.2	615.2	620.3	620.3
172.5°	604.0	604.4	604.7	604.8	604.8	604.8	604.8	607.5	613.0	617.1	616.7
175°	608.5	608.5	608.5	608.5	607.3	605.6	604.8	606.6	610.0	612.6	612.6
177.5°	608.5	608.5	608.5	608.5	607.5	606.3	605.7	607.1	609.8	611.8	611.5
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	541.3	541.3
2.5°	577.9	574.4
5°	743.2	746.7
7.5°	1000.8	999.2
10°	1244.6	1260.2
12.5°	1422.1	1425.6
15°	1530.0	1536.9
17.5°	1571.8	1573.5
20°	1573.5	1570.1
22.5°	1554.3	1550.9
25°	1531.8	1530.0
27.5°	1510.9	1512.6
30°	1502.2	1507.3
32.5°	1502.2	1510.9
35°	1505.7	1514.4
37.5°	1503.9	1514.4
40°	1496.9	1509.1
42.5°	1477.7	1486.5
45°	1448.2	1458.6
47.5°	1409.9	1416.9
50°	1361.2	1368.1
52.5°	1300.2	1302.0
55°	1227.2	1234.1
57.5°	1148.8	1150.6
60°	1061.8	1067.0
62.5°	969.6	969.6
65°	872.1	875.5
67.5°	771.1	779.8
70°	668.4	670.1
72.5°	567.5	567.5
75°	463.0	464.7
77.5°	363.8	363.8
80°	269.8	271.6
82.5°	186.3	189.7
85°	116.6	116.6
87.5°	53.9	48.7
90°	15.5	15.5
92.5°	62.1	49.8
95°	216.7	179.3
97.5°	519.2	448.0
100°	748.0	663.2
102.5°	973.2	900.5
105°	1260.1	1221.1
107.5°	1448.1	1457.5
110°	1519.8	1560.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1526.2	1588.7
115°	1485.7	1572.3
117.5°	1399.9	1495.9
120°	1330.8	1424.1
122.5°	1263.4	1355.5
125°	1167.4	1252.2
127.5°	1081.0	1152.5
130°	1030.1	1096.1
132.5°	983.9	1043.1
135°	920.5	971.6
137.5°	869.8	911.6
140°	835.0	874.0
142.5°	806.1	839.7
145°	762.8	788.2
147.5°	729.5	750.6
150°	708.7	725.7
152.5°	690.8	703.7
155°	670.2	678.8
157.5°	654.0	660.0
160°	644.2	647.7
162.5°	637.9	641.2
165°	628.8	632.2
167.5°	622.2	623.6
170°	620.3	620.3
172.5°	615.5	614.2
175°	612.6	612.6
177.5°	610.0	608.5
180°	608.5	608.5



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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	5.34	6.25	6.27	7.21	8.46	18.50	19.42	19.44	20.38	21.62
	3H	6.05	6.87	6.99	7.84	9.11	20.34	21.16	21.29	22.13	23.40
	4H	6.35	7.13	7.31	8.10	9.38	20.98	21.76	21.95	22.74	24.01
	6H	6.60	7.32	7.57	8.30	9.59	21.41	22.13	22.39	23.11	24.40
	8H	6.67	7.36	7.65	8.35	9.64	21.53	22.22	22.51	23.21	24.50
	12H	6.69	7.34	7.68	8.33	9.65	21.60	22.25	22.59	23.24	24.56
4H	2H	12.55	13.33	13.52	14.30	15.58	18.78	19.56	19.75	20.54	21.81
	3H	14.12	14.78	15.10	15.78	17.07	20.83	21.48	21.81	22.48	23.78
	4H	14.22	14.82	15.21	15.81	17.13	21.59	22.19	22.58	23.19	24.50
	6H	14.23	14.75	15.23	15.77	17.08	22.13	22.65	23.13	23.67	24.98
	8H	14.21	14.70	15.21	15.71	17.04	22.29	22.78	23.29	23.79	25.12
	12H	14.17	14.61	15.19	15.64	16.97	22.39	22.82	23.41	23.85	25.19
8H	4H	15.67	16.15	16.67	17.16	18.49	21.66	22.14	22.66	23.15	24.48
	6H	15.91	16.31	16.94	17.37	18.69	22.29	22.69	23.31	23.74	25.07
	8H	15.93	16.28	16.96	17.32	18.67	22.51	22.86	23.54	23.90	25.24
	12H	15.90	16.21	16.94	17.25	18.64	22.65	22.96	23.69	24.00	25.38
12H	4H	15.81	16.25	16.83	17.28	18.61	21.62	22.05	22.64	23.08	24.41
	6H	16.17	16.52	17.20	17.56	18.91	22.27	22.63	23.30	23.66	25.01
	8H	16.24	16.55	17.28	17.59	18.98	22.50	22.81	23.54	23.85	25.24