

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: P937193

Luminaire Tested: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937193
REPORT IS A COMBINATION OF REPORTS P933518 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-075D-B2750-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

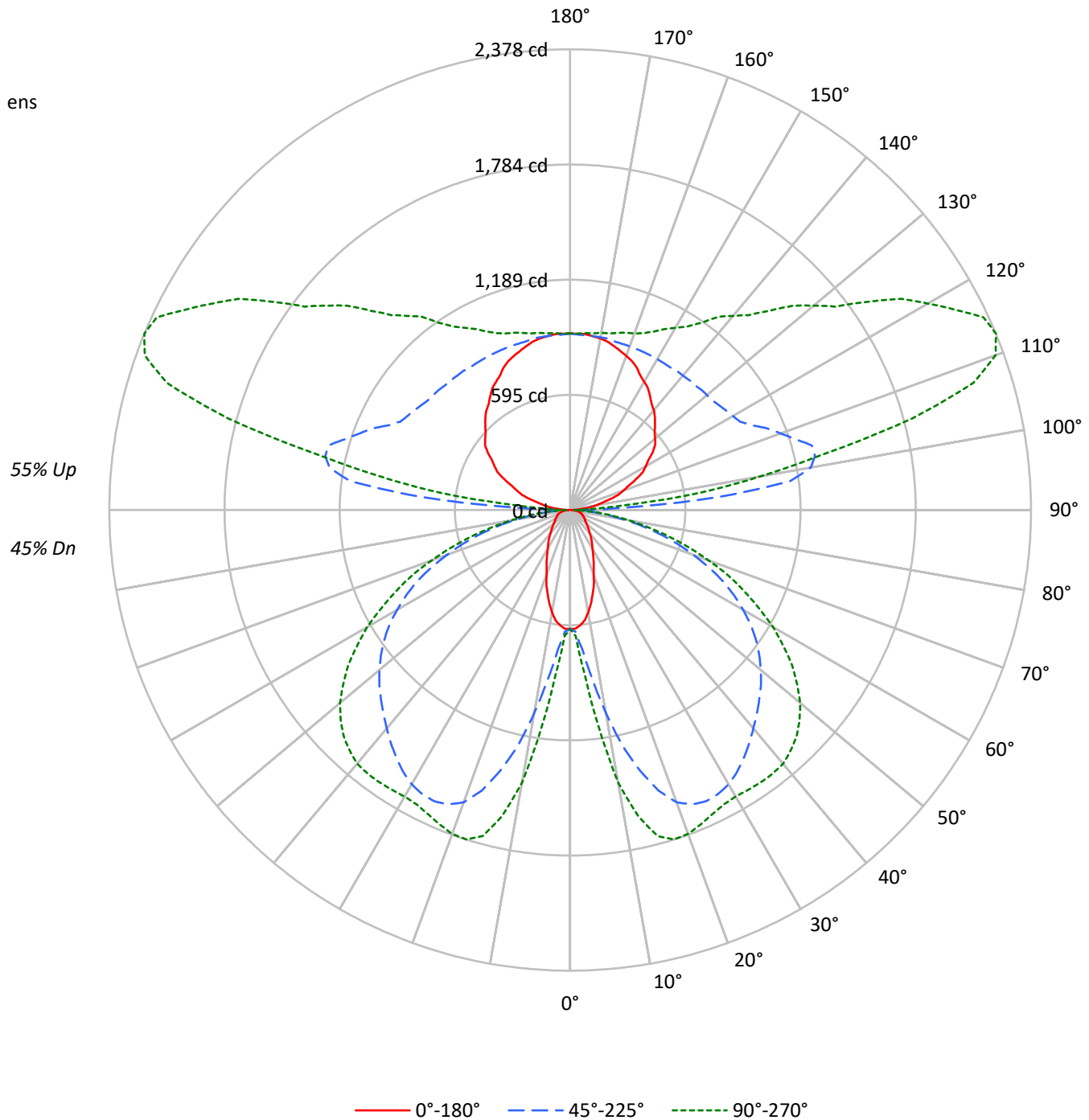
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10652.7 lumens
Efficiency: N/A
Efficacy: 125.6 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: General Diffuse

Input Watts (W): 84.8
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

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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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	84	88	84	80	77	70	67	65	57	55	53	44	43	42	37
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25
4	72	61	53	47	65	56	49	43	46	41	37	38	34	31	30	27	24	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	26	23	21	17
6	60	48	40	34	55	44	37	31	37	31	27	30	26	22	24	21	18	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	21	18	16	13
8	51	39	31	26	47	36	29	24	30	24	21	25	20	17	20	16	14	11
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10
10	44	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2845	2845	2845
5°	2780	3289	3825
10°	2522	4794	6341
15°	2143	6264	7657
20°	1745	7258	7803
25°	1455	7596	7645
30°	1227	7644	7631
35°	1085	7517	7828
40°	946	7352	8032
45°	856	7231	8063
50°	785	7122	7930
55°	753	6963	7578
60°	770	6657	7023
65°	801	6192	6260
70°	854	5400	5288
75°	945	4403	4127
80°	1033	3054	2781
85°	918	1620	1423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	0.7
10°-20°	351.6	3.3
20°-30°	615.0	5.8
30°-40°	791.7	7.4
40°-50°	884.3	8.3
50°-60°	847.0	8.0
60°-70°	671.2	6.3
70°-80°	394.7	3.7
80°-90°	113.1	1.1
90°-100°	444.0	4.2
100°-110°	1167.3	11.0
110°-120°	1210.3	11.4
120°-130°	970.8	9.1
130°-140°	761.8	7.2
140°-150°	584.7	5.5
150°-160°	421.1	4.0
160°-170°	257.6	2.4
170°-180°	87.0	0.8
0°-30°	1046.0	9.8
0°-40°	1837.7	17.3
0°-60°	3569.1	33.5
0°-90°	4748.1	44.6
90°-120°	2821.6	26.5
90°-150°	5138.9	48.2
90°-180°	5905.0	55.4
0°-180°	10652.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	598	641	722	816	846	55
15°	448	826	1392	1688	1741	125
25°	286	937	1659	1732	1734	132
35°	193	895	1562	1651	1716	121
45°	132	714	1380	1582	1653	102
55°	95	454	1172	1361	1398	86
65°	75	241	870	978	992	74
75°	55	148	477	525	526	58
85°	20	45	118	130	132	21
90°	6	17	46	23	23	6
95°	59	230	765	394	268	65
105°	210	318	1290	1959	1828	223
115°	374	454	1034	2062	2354	369
125°	520	582	940	1589	1874	461
135°	619	682	911	1282	1454	479
145°	718	764	899	1094	1180	450
155°	812	834	899	987	1016	373
165°	876	888	899	935	946	247
175°	911	911	905	917	917	86
180°	911	911	911	911	911	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3
2.5°	613.3	613.3	617.2	619.2	623.2	625.1	629.1	633.0	644.8	646.8	650.8
5°	597.5	605.4	631.0	640.9	668.5	706.0	721.8	747.4	800.6	816.4	826.3
7.5°	573.9	591.6	654.7	670.5	739.5	838.1	879.5	934.7	1019.5	1060.9	1094.5
10°	536.4	573.9	686.3	723.7	836.1	986.0	1062.9	1139.9	1268.1	1325.3	1347.0
12.5°	495.0	556.1	719.8	771.1	932.8	1151.7	1244.4	1329.2	1475.2	1552.1	1563.9
15°	447.6	530.5	751.3	826.3	1035.3	1289.8	1392.3	1496.8	1632.9	1688.1	1701.9
17.5°	406.2	510.7	780.9	859.8	1114.2	1414.0	1518.5	1605.3	1715.7	1753.2	1763.1
20°	355.0	479.2	800.6	903.2	1197.1	1504.7	1605.3	1672.4	1747.3	1771.0	1774.9
22.5°	317.5	445.7	812.5	919.0	1252.3	1560.0	1644.7	1698.0	1749.3	1757.2	1759.1
25°	285.9	408.2	810.5	936.7	1299.6	1593.5	1658.6	1698.0	1727.6	1731.5	1731.5
27.5°	256.4	366.8	802.6	940.6	1335.1	1601.4	1652.6	1680.2	1694.0	1701.9	1701.9
30°	230.7	327.4	782.9	932.8	1350.9	1593.5	1634.9	1648.7	1662.5	1674.3	1680.2
32.5°	211.0	289.9	753.3	917.0	1352.9	1573.8	1603.3	1611.2	1630.9	1658.6	1668.4
35°	193.3	252.4	719.8	895.3	1341.1	1542.2	1561.9	1569.8	1609.3	1650.7	1664.5
37.5°	175.5	224.8	676.4	857.8	1323.3	1504.7	1518.5	1532.3	1593.5	1642.8	1658.6
40°	157.8	201.1	625.1	816.4	1295.7	1459.4	1471.2	1492.9	1573.8	1630.9	1646.7
42.5°	144.0	181.4	569.9	773.0	1260.2	1408.1	1425.9	1457.4	1550.1	1611.2	1629.0
45°	132.1	161.7	510.7	713.9	1214.9	1354.9	1380.5	1423.9	1522.5	1581.6	1597.4
47.5°	120.3	147.9	449.6	652.7	1165.6	1301.6	1335.1	1384.4	1485.0	1542.2	1556.0
50°	110.4	134.1	388.5	587.7	1112.2	1244.4	1283.9	1335.1	1437.7	1490.9	1508.7
52.5°	102.5	122.3	331.3	522.6	1051.1	1185.3	1230.6	1283.9	1380.5	1431.8	1443.6
55°	94.7	112.4	282.0	453.6	988.0	1122.2	1171.5	1222.7	1317.4	1360.8	1368.7
57.5°	90.7	104.5	240.6	388.5	920.9	1051.1	1106.3	1153.7	1242.5	1276.0	1283.9
60°	84.8	98.6	209.0	333.3	848.0	984.0	1031.4	1078.7	1153.7	1181.3	1187.2
62.5°	78.9	94.7	185.4	280.0	773.0	905.1	952.5	995.9	1059.0	1078.7	1086.6
65°	74.9	90.7	167.6	240.6	696.1	822.3	869.7	907.1	958.4	978.1	982.1
67.5°	71.0	86.8	153.8	207.1	619.2	739.5	775.0	810.5	849.9	869.7	871.6
70°	65.1	82.8	142.0	183.4	540.3	644.8	674.4	711.9	743.4	753.3	759.2
72.5°	61.1	76.9	134.1	165.6	459.5	554.1	581.7	603.4	631.0	640.9	640.9
75°	55.2	69.0	126.2	147.9	376.7	453.6	477.2	498.9	520.6	524.6	518.6
77.5°	49.3	61.1	108.5	124.2	293.8	358.9	378.6	390.5	408.2	412.1	414.1
80°	41.4	53.2	84.8	96.6	213.0	264.2	278.1	287.9	303.7	303.7	307.6
82.5°	31.6	41.4	61.1	69.0	144.0	181.4	193.3	199.2	209.0	209.0	209.0
85°	19.7	25.6	39.4	45.4	86.8	110.4	118.3	120.3	128.2	130.2	130.2
87.5°	9.9	13.8	25.6	27.6	45.4	57.2	57.2	61.1	61.1	59.2	57.2
90°	6.1	11.0	16.0	17.2	26.9	39.9	46.4	41.3	31.0	23.3	23.3
92.5°	24.5	66.1	107.7	118.0	165.9	229.7	261.7	229.3	164.7	116.2	111.5
95°	58.7	134.8	210.8	229.8	408.1	645.8	764.7	682.4	517.7	394.3	380.3
97.5°	101.5	168.6	235.8	252.5	549.8	946.2	1144.4	1092.3	988.3	910.3	883.7
100°	134.5	195.3	256.3	271.4	601.4	1041.2	1261.1	1264.9	1272.5	1278.3	1246.5
102.5°	162.6	219.4	276.2	290.4	624.9	1071.1	1294.1	1360.4	1493.0	1592.5	1565.3
105°	210.3	258.4	306.4	318.5	642.5	1074.4	1290.5	1439.1	1736.2	1959.2	1944.6
107.5°	259.2	304.1	348.8	360.1	645.7	1026.6	1217.1	1424.4	1839.0	2150.0	2153.5
110°	292.3	332.7	373.1	383.3	640.8	984.2	1156.0	1387.7	1851.2	2198.9	2214.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	324.6	363.1	401.7	411.4	641.0	947.3	1100.4	1337.6	1812.0	2167.7	2191.1
115°	373.5	409.1	444.7	453.6	646.9	904.8	1033.7	1262.2	1719.2	2061.9	2094.4
117.5°	421.8	454.2	486.5	494.6	659.0	878.2	987.9	1194.0	1606.5	1915.8	1951.7
120°	449.9	480.3	510.7	518.3	668.7	869.3	969.5	1158.0	1534.8	1817.4	1852.3
122.5°	477.4	508.2	538.8	546.5	682.8	864.5	955.4	1125.1	1464.5	1719.0	1753.4
125°	519.6	547.6	575.5	582.5	701.7	860.7	940.2	1084.3	1372.5	1588.7	1620.5
127.5°	553.8	582.1	610.3	617.4	720.8	858.5	927.3	1051.1	1298.6	1484.2	1510.9
130°	572.2	602.5	633.0	640.6	734.6	859.9	922.5	1032.6	1253.0	1418.3	1443.0
132.5°	591.1	621.6	652.0	659.6	745.8	860.7	918.2	1016.8	1214.1	1362.0	1384.1
135°	619.2	646.9	674.7	681.6	758.0	859.9	910.9	993.5	1158.6	1282.5	1301.6
137.5°	648.0	675.4	702.8	709.7	776.4	865.2	909.6	979.4	1119.1	1223.8	1239.4
140°	671.9	697.1	722.3	728.7	787.5	866.1	905.3	965.7	1086.3	1176.8	1191.4
142.5°	690.2	713.6	736.9	742.8	797.0	869.3	905.3	958.3	1064.3	1143.8	1156.3
145°	718.3	738.7	759.0	764.2	809.2	869.3	899.2	942.6	1029.3	1094.3	1103.7
147.5°	746.4	766.2	786.1	791.1	827.2	875.2	899.2	933.3	1001.5	1052.7	1060.5
150°	764.7	782.7	800.6	805.1	836.4	878.3	899.2	928.0	985.6	1028.8	1035.2
152.5°	783.7	797.3	810.9	814.2	842.5	880.3	899.2	923.8	973.0	1009.9	1014.7
155°	811.8	821.8	831.9	834.5	856.0	884.8	899.2	918.8	957.9	987.3	990.4
157.5°	832.6	842.3	852.1	854.6	869.5	889.3	899.2	914.4	944.9	967.7	969.9
160°	846.7	854.3	861.9	863.7	875.6	891.3	899.2	912.2	938.4	957.9	959.2
162.5°	860.7	866.4	872.1	873.6	882.2	893.5	899.2	910.3	932.3	948.7	949.9
165°	876.0	881.1	886.3	887.6	891.4	896.7	899.2	907.1	922.9	934.7	936.0
167.5°	890.1	892.5	895.0	895.6	898.8	903.2	905.3	910.5	920.8	928.6	929.1
170°	899.2	901.7	904.2	904.8	905.0	905.2	905.3	910.5	920.8	928.6	928.6
172.5°	904.2	904.7	905.2	905.3	905.3	905.3	905.3	909.4	917.6	923.7	923.2
175°	910.9	910.9	910.9	910.9	909.0	906.5	905.3	907.9	913.1	917.0	917.0
177.5°	910.9	910.9	910.9	910.9	909.4	907.5	906.5	908.6	912.6	915.7	915.2
180°	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	613.3	613.3
2.5°	654.7	650.8
5°	842.0	846.0
7.5°	1134.0	1132.0
10°	1410.1	1427.8
12.5°	1611.2	1615.2
15°	1733.5	1741.4
17.5°	1780.8	1782.8
20°	1782.8	1778.8
22.5°	1761.1	1757.2
25°	1735.5	1733.5
27.5°	1711.8	1713.8
30°	1701.9	1707.9
32.5°	1701.9	1711.8
35°	1705.9	1715.7
37.5°	1703.9	1715.7
40°	1696.0	1709.8
42.5°	1674.3	1684.2
45°	1640.8	1652.6
47.5°	1597.4	1605.3
50°	1542.2	1550.1
52.5°	1473.2	1475.2
55°	1390.4	1398.2
57.5°	1301.6	1303.6
60°	1203.0	1208.9
62.5°	1098.4	1098.4
65°	988.0	991.9
67.5°	873.6	883.5
70°	757.2	759.2
72.5°	642.9	642.9
75°	524.6	526.5
77.5°	412.1	412.1
80°	305.7	307.6
82.5°	211.0	214.9
85°	132.1	132.1
87.5°	61.1	55.2
90°	23.3	23.3
92.5°	93.1	74.5
95°	324.4	268.4
97.5°	777.1	670.6
100°	1119.7	992.8
102.5°	1456.6	1348.0
105°	1886.1	1827.7
107.5°	2167.6	2181.7
110°	2275.0	2335.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2284.5	2377.9
115°	2223.9	2353.5
117.5°	2095.4	2239.2
120°	1992.0	2131.6
122.5°	1891.1	2028.9
125°	1747.4	1874.3
127.5°	1618.0	1725.1
130°	1541.8	1640.7
132.5°	1472.7	1561.2
135°	1377.9	1454.3
137.5°	1301.9	1364.4
140°	1249.9	1308.2
142.5°	1206.6	1256.9
145°	1141.8	1179.8
147.5°	1092.0	1123.5
150°	1060.7	1086.3
152.5°	1033.9	1053.2
155°	1003.3	1016.0
157.5°	978.9	987.9
160°	964.4	969.5
162.5°	954.8	959.8
165°	941.1	946.3
167.5°	931.3	933.4
170°	928.6	928.6
172.5°	921.3	919.4
175°	917.0	917.0
177.5°	913.0	910.9
180°	910.9	910.9



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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	4.12	4.97	5.12	5.98	7.32	17.30	18.15	18.30	19.16	20.50
	3H	4.83	5.59	5.83	6.61	7.97	19.14	19.90	20.14	20.92	22.28
	4H	5.12	5.85	6.14	6.87	8.24	19.78	20.51	20.80	21.53	22.90
	6H	5.37	6.04	6.40	7.07	8.45	20.21	20.88	21.24	21.91	23.29
	8H	5.44	6.08	6.47	7.12	8.50	20.33	20.97	21.37	22.01	23.39
	12H	5.46	6.06	6.50	7.10	8.51	20.40	21.00	21.44	22.04	23.45
4H	2H	11.34	12.06	12.36	13.08	14.45	17.57	18.30	18.60	19.32	20.69
	3H	12.90	13.51	13.94	14.56	15.94	19.62	20.22	20.65	21.27	22.66
	4H	13.00	13.55	14.04	14.59	16.00	20.38	20.94	21.42	21.98	23.39
	6H	13.01	13.48	14.06	14.55	15.95	20.92	21.40	21.97	22.47	23.87
	8H	12.98	13.43	14.03	14.49	15.91	21.08	21.53	22.14	22.59	24.01
	12H	12.94	13.34	14.01	14.42	15.84	21.18	21.58	22.25	22.65	24.08
8H	4H	14.44	14.89	15.49	15.95	17.36	20.44	20.89	21.49	21.95	23.37
	6H	14.68	15.05	15.76	16.15	17.57	21.07	21.44	22.15	22.54	23.96
	8H	14.70	15.02	15.78	16.11	17.54	21.29	21.62	22.37	22.70	24.14
	12H	14.67	14.95	15.75	16.03	17.51	21.43	21.72	22.52	22.80	24.28
12H	4H	14.58	14.99	15.65	16.06	17.48	20.39	20.80	21.47	21.87	23.30
	6H	14.94	15.27	16.02	16.35	17.79	21.05	21.38	22.14	22.46	23.90
	8H	15.01	15.29	16.10	16.37	17.85	21.28	21.57	22.37	22.65	24.13