

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: P937371

Luminaire Tested: SQ4-FB-075U-125D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937371
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

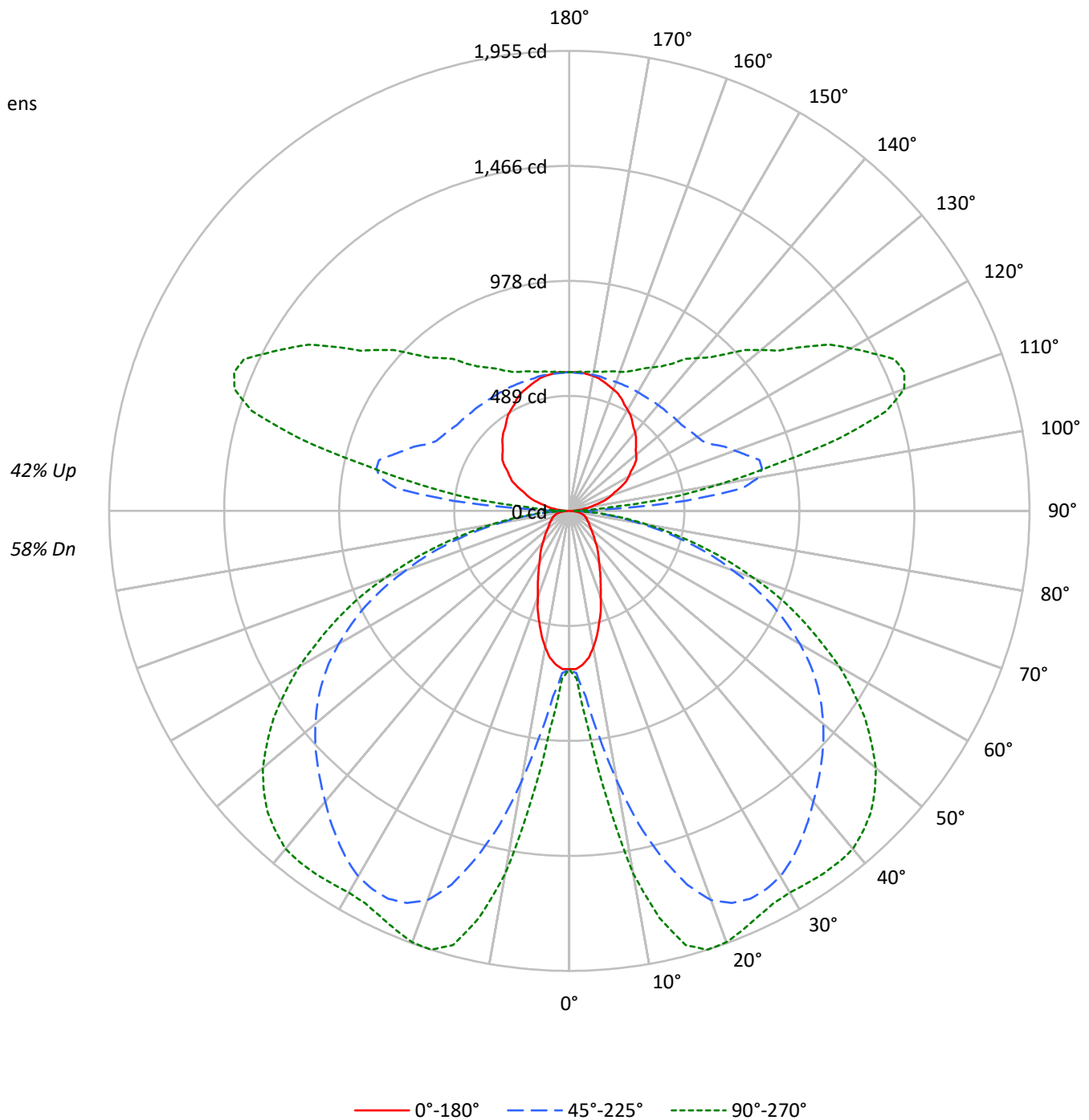
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9032.1 lumens
Efficiency: N/A
Efficacy: 97.1 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 (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	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°	4161	4161	4161
5°	4063	4808	5593
10°	3684	7007	9272
15°	3130	9152	11196
20°	2547	10603	11410
25°	2124	11092	11178
30°	1790	11160	11157
35°	1583	10972	11446
40°	1378	10727	11744
45°	1247	10547	11790
50°	1143	10386	11594
55°	1093	10150	11080
60°	1118	9700	10269
65°	1162	9017	9154
70°	1235	7858	7734
75°	1364	6402	6035
80°	1478	4434	4067
85°	1288	2349	2081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.0
10°-20°	385.6	4.3
20°-30°	674.5	7.5
30°-40°	868.2	9.6
40°-50°	969.8	10.7
50°-60°	928.8	10.3
60°-70°	736.1	8.1
70°-80°	432.8	4.8
80°-90°	122.5	1.4
90°-100°	287.7	3.2
100°-110°	756.5	8.4
110°-120°	784.4	8.7
120°-130°	629.2	7.0
130°-140°	493.7	5.5
140°-150°	378.9	4.2
150°-160°	272.9	3.0
160°-170°	167.0	1.8
170°-180°	56.4	0.6
0°-30°	1147.1	12.7
0°-40°	2015.3	22.3
0°-60°	3914.0	43.3
0°-90°	5205.4	57.6
90°-120°	1828.6	20.2
90°-150°	3330.4	36.9
90°-180°	3827.0	42.4
0°-180°	9032.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	655	703	792	895	928	60
15°	491	906	1527	1851	1910	137
25°	314	1027	1819	1899	1901	144
35°	212	982	1713	1810	1882	132
45°	145	783	1514	1734	1812	112
55°	104	497	1285	1492	1533	95
65°	82	264	954	1073	1088	81
75°	61	162	523	575	577	63
85°	22	50	130	143	145	23
90°	4	11	30	15	15	5
95°	38	149	496	256	174	42
105°	136	206	836	1270	1184	145
115°	242	294	670	1336	1525	239
125°	337	378	609	1030	1215	299
135°	401	442	590	831	942	311
145°	466	495	583	709	765	292
155°	526	541	583	640	658	242
165°	568	575	583	606	613	160
175°	590	590	587	594	594	56
180°	590	590	590	590	590	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6
2.5°	672.6	672.6	676.9	679.0	683.4	685.6	689.9	694.2	707.2	709.4	713.7
5°	655.3	664.0	692.1	702.9	733.1	774.2	791.5	819.6	878.1	895.4	906.2
7.5°	629.4	648.8	718.0	735.3	811.0	919.1	964.5	1025.1	1118.1	1163.5	1200.3
10°	588.2	629.4	752.6	793.7	917.0	1081.4	1165.7	1250.1	1390.6	1453.3	1477.1
12.5°	542.8	609.9	789.4	845.6	1022.9	1263.0	1364.6	1457.6	1617.7	1702.0	1715.0
15°	490.9	581.7	824.0	906.2	1135.4	1414.4	1526.9	1641.5	1790.7	1851.2	1866.4
17.5°	445.5	560.1	856.4	942.9	1221.9	1550.6	1665.2	1760.4	1881.6	1922.6	1933.4
20°	389.3	525.5	878.1	990.5	1312.8	1650.2	1760.4	1833.9	1916.1	1942.0	1946.4
22.5°	348.2	488.8	891.0	1007.8	1373.3	1710.6	1803.7	1862.0	1918.3	1927.0	1929.1
25°	313.6	447.6	888.9	1027.3	1425.2	1747.5	1818.8	1862.0	1894.5	1898.9	1898.9
27.5°	281.2	402.2	880.2	1031.6	1464.2	1756.1	1812.3	1842.6	1857.7	1866.4	1866.4
30°	253.0	359.0	858.6	1022.9	1481.5	1747.5	1792.9	1808.0	1823.1	1836.1	1842.6
32.5°	231.4	317.9	826.1	1005.6	1483.6	1725.8	1758.3	1766.9	1788.5	1818.8	1829.6
35°	212.0	276.8	789.4	981.8	1470.6	1691.2	1712.9	1721.5	1764.7	1810.2	1825.3
37.5°	192.5	246.6	741.8	940.8	1451.1	1650.2	1665.2	1680.4	1747.5	1801.5	1818.8
40°	173.0	220.6	685.6	895.4	1420.9	1600.4	1613.3	1637.1	1725.8	1788.5	1805.8
42.5°	157.9	198.9	625.0	847.7	1381.9	1544.2	1563.6	1598.2	1699.8	1766.9	1786.4
45°	144.9	177.3	560.1	782.9	1332.2	1485.7	1513.8	1561.5	1669.6	1734.5	1751.8
47.5°	131.9	162.2	493.1	715.9	1278.2	1427.4	1464.2	1518.2	1628.5	1691.2	1706.4
50°	121.1	147.1	426.1	644.5	1219.7	1364.6	1407.9	1464.2	1576.6	1635.0	1654.4
52.5°	112.5	134.1	363.3	573.1	1152.7	1299.7	1349.5	1407.9	1513.8	1570.1	1583.1
55°	103.8	123.3	309.3	497.4	1083.5	1230.5	1284.6	1340.9	1444.7	1492.3	1500.9
57.5°	99.5	114.6	263.9	426.1	1010.0	1152.7	1213.2	1265.1	1362.5	1399.2	1407.9
60°	93.0	108.1	229.3	365.5	930.0	1079.1	1131.1	1183.0	1265.1	1295.5	1301.9
62.5°	86.5	103.8	203.3	307.1	847.7	992.7	1044.6	1092.2	1161.4	1183.0	1191.6
65°	82.2	99.5	183.9	263.9	763.4	901.8	953.7	994.8	1051.0	1072.7	1077.0
67.5°	77.9	95.2	168.7	227.1	679.0	811.0	850.0	888.9	932.1	953.7	955.9
70°	71.4	90.8	155.7	201.2	592.6	707.2	739.6	780.7	815.4	826.1	832.7
72.5°	67.1	84.3	147.1	181.6	503.9	607.7	638.0	661.7	692.1	702.9	702.9
75°	60.6	75.7	138.4	162.2	413.0	497.4	523.4	547.2	570.9	575.3	568.8
77.5°	54.1	67.1	118.9	136.2	322.2	393.6	415.3	428.2	447.6	452.0	454.2
80°	45.4	58.4	93.0	106.0	233.5	289.8	304.9	315.8	333.0	333.0	337.4
82.5°	34.6	45.4	67.1	75.7	157.9	198.9	212.0	218.5	229.3	229.3	229.3
85°	21.6	28.1	43.3	49.8	95.2	121.1	129.8	131.9	140.6	142.7	142.7
87.5°	10.8	15.2	28.1	30.2	49.8	62.7	62.7	67.1	67.1	64.9	62.7
90°	3.9	7.1	10.3	11.1	17.4	25.8	30.1	26.8	20.1	15.1	15.1
92.5°	15.8	42.8	69.7	76.4	107.4	148.8	169.5	148.6	106.7	75.2	72.2
95°	38.0	87.3	136.6	148.9	264.5	418.6	495.6	442.3	335.5	255.5	246.5
97.5°	65.8	109.2	152.7	163.6	356.3	613.2	741.7	707.9	640.5	589.9	572.6
100°	87.2	126.6	166.1	175.9	389.7	674.8	817.3	819.8	824.7	828.4	807.9
102.5°	105.4	142.2	179.0	188.2	405.0	694.1	838.7	881.6	967.6	1032.0	1014.4
105°	136.3	167.5	198.7	206.4	416.4	696.3	836.3	932.6	1125.2	1269.7	1260.3
107.5°	168.0	197.1	226.1	233.4	418.5	665.3	788.8	923.1	1191.9	1393.4	1395.7
110°	189.4	215.6	241.8	248.4	415.3	637.9	749.2	899.4	1199.8	1425.1	1434.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	210.4	235.3	260.4	266.6	415.4	613.9	713.1	866.8	1174.2	1404.8	1419.9
115°	242.1	265.1	288.1	293.9	419.3	586.3	669.9	818.0	1114.2	1336.3	1357.2
117.5°	273.3	294.3	315.2	320.5	427.1	569.1	640.2	773.9	1041.1	1241.6	1264.9
120°	291.6	311.3	331.0	335.9	433.4	563.3	628.4	750.4	994.6	1177.8	1200.5
122.5°	309.4	329.3	349.2	354.2	442.5	560.4	619.2	729.1	949.0	1114.0	1136.3
125°	336.7	354.9	373.0	377.5	454.8	557.8	609.4	702.7	889.6	1029.6	1050.2
127.5°	358.9	377.3	395.5	400.1	467.1	556.4	601.0	681.2	841.6	961.9	979.3
130°	370.8	390.6	410.2	415.2	476.1	557.3	597.8	669.2	812.0	919.1	935.2
132.5°	383.1	402.8	422.5	427.4	483.3	557.8	595.0	658.9	786.8	882.7	897.0
135°	401.3	419.3	437.2	441.8	491.3	557.3	590.3	643.8	750.9	831.1	843.5
137.5°	420.0	437.7	455.5	459.9	503.1	560.7	589.5	634.7	725.2	793.1	803.3
140°	435.4	451.7	468.2	472.3	510.4	561.3	586.7	625.8	704.0	762.6	772.1
142.5°	447.3	462.5	477.6	481.4	516.5	563.3	586.7	621.0	689.7	741.2	749.4
145°	465.5	478.7	491.9	495.2	524.4	563.3	582.8	610.9	667.0	709.1	715.3
147.5°	483.7	496.5	509.4	512.6	536.0	567.2	582.8	604.8	649.1	682.2	687.3
150°	495.6	507.2	518.9	521.8	542.1	569.2	582.8	601.4	638.7	666.8	670.9
152.5°	507.9	516.7	525.5	527.7	546.0	570.5	582.8	598.7	630.6	654.5	657.7
155°	526.1	532.6	539.1	540.8	554.7	573.4	582.8	595.5	620.9	639.9	641.9
157.5°	539.6	546.0	552.3	553.9	563.5	576.4	582.8	592.7	612.3	627.2	628.6
160°	548.7	553.6	558.6	559.8	567.4	577.7	582.8	591.2	608.1	620.8	621.6
162.5°	557.8	561.6	565.2	566.2	571.7	579.1	582.8	589.9	604.2	614.9	615.7
165°	567.7	571.1	574.4	575.3	577.7	581.1	582.8	587.9	598.1	605.8	606.6
167.5°	576.8	578.4	580.0	580.4	582.5	585.3	586.7	590.0	596.7	601.8	602.1
170°	582.8	584.4	585.9	586.3	586.4	586.6	586.7	590.0	596.7	601.8	601.8
172.5°	585.9	586.3	586.6	586.7	586.7	586.7	586.7	589.3	594.6	598.6	598.3
175°	590.3	590.3	590.3	590.3	589.1	587.5	586.7	588.4	591.7	594.3	594.3
177.5°	590.3	590.3	590.3	590.3	589.3	588.1	587.5	588.9	591.5	593.5	593.2
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	672.6	672.6
2.5°	718.0	713.7
5°	923.5	927.8
7.5°	1243.6	1241.4
10°	1546.3	1565.8
12.5°	1766.9	1771.2
15°	1901.0	1909.7
17.5°	1952.9	1955.1
20°	1955.1	1950.7
22.5°	1931.2	1927.0
25°	1903.1	1901.0
27.5°	1877.2	1879.3
30°	1866.4	1872.9
32.5°	1866.4	1877.2
35°	1870.7	1881.6
37.5°	1868.5	1881.6
40°	1859.9	1875.0
42.5°	1836.1	1847.0
45°	1799.3	1812.3
47.5°	1751.8	1760.4
50°	1691.2	1699.8
52.5°	1615.5	1617.7
55°	1524.7	1533.3
57.5°	1427.4	1429.5
60°	1319.2	1325.7
62.5°	1204.6	1204.6
65°	1083.5	1087.8
67.5°	958.1	968.9
70°	830.4	832.7
72.5°	705.0	705.0
75°	575.3	577.4
77.5°	452.0	452.0
80°	335.2	337.4
82.5°	231.4	235.7
85°	144.9	144.9
87.5°	67.1	60.6
90°	15.1	15.1
92.5°	60.2	48.3
95°	210.2	173.9
97.5°	503.6	434.6
100°	725.6	643.3
102.5°	944.0	873.6
105°	1222.4	1184.5
107.5°	1404.8	1413.9
110°	1474.3	1513.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1480.5	1541.1
115°	1441.2	1525.3
117.5°	1358.0	1451.1
120°	1291.0	1381.4
122.5°	1225.6	1314.9
125°	1132.5	1214.7
127.5°	1048.6	1118.0
130°	999.2	1063.3
132.5°	954.4	1011.8
135°	893.0	942.5
137.5°	843.7	884.3
140°	810.0	847.8
142.5°	782.0	814.5
145°	740.0	764.6
147.5°	707.7	728.1
150°	687.5	704.0
152.5°	670.1	682.6
155°	650.2	658.4
157.5°	634.4	640.2
160°	624.9	628.4
162.5°	618.8	622.0
165°	609.9	613.3
167.5°	603.6	604.9
170°	601.8	601.8
172.5°	597.1	595.8
175°	594.3	594.3
177.5°	591.7	590.3
180°	590.3	590.3



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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	6.62	7.60	7.50	8.51	9.66	19.79	20.77	20.67	21.67	22.83
	3H	7.34	8.22	8.23	9.13	10.31	21.63	22.51	22.52	23.43	24.61
	4H	7.64	8.48	8.55	9.40	10.59	22.28	23.11	23.18	24.03	25.22
	6H	7.90	8.67	8.82	9.60	10.80	22.71	23.48	23.63	24.41	25.61
	8H	7.97	8.70	8.90	9.65	10.85	22.83	23.57	23.76	24.51	25.71
	12H	7.99	8.69	8.92	9.63	10.86	22.90	23.60	23.83	24.54	25.77
4H	2H	13.84	14.68	14.75	15.60	16.79	20.08	20.91	20.99	21.83	23.02
	3H	15.42	16.12	16.35	17.07	18.28	22.13	22.83	23.05	23.78	24.98
	4H	15.52	16.16	16.46	17.11	18.34	22.90	23.54	23.83	24.48	25.71
	6H	15.54	16.09	16.49	17.07	18.29	23.44	23.99	24.39	24.96	26.19
	8H	15.52	16.04	16.47	17.00	18.25	23.60	24.12	24.55	25.08	26.33
	12H	15.48	15.95	16.45	16.93	18.18	23.70	24.17	24.67	25.15	26.40
8H	4H	16.97	17.49	17.92	18.46	19.70	22.97	23.48	23.92	24.45	25.69
	6H	17.22	17.65	18.20	18.66	19.90	23.60	24.03	24.57	25.03	26.28
	8H	17.24	17.62	18.23	18.62	19.88	23.82	24.20	24.80	25.19	26.45
	12H	17.22	17.55	18.21	18.54	19.85	23.96	24.30	24.95	25.29	26.59
12H	4H	17.12	17.59	18.09	18.57	19.82	22.93	23.39	23.90	24.38	25.63
	6H	17.48	17.86	18.47	18.86	20.12	23.58	23.96	24.57	24.96	26.22
	8H	17.56	17.89	18.55	18.88	20.19	23.82	24.15	24.81	25.14	26.45