

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: P1435879

Luminaire Tested: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435879  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

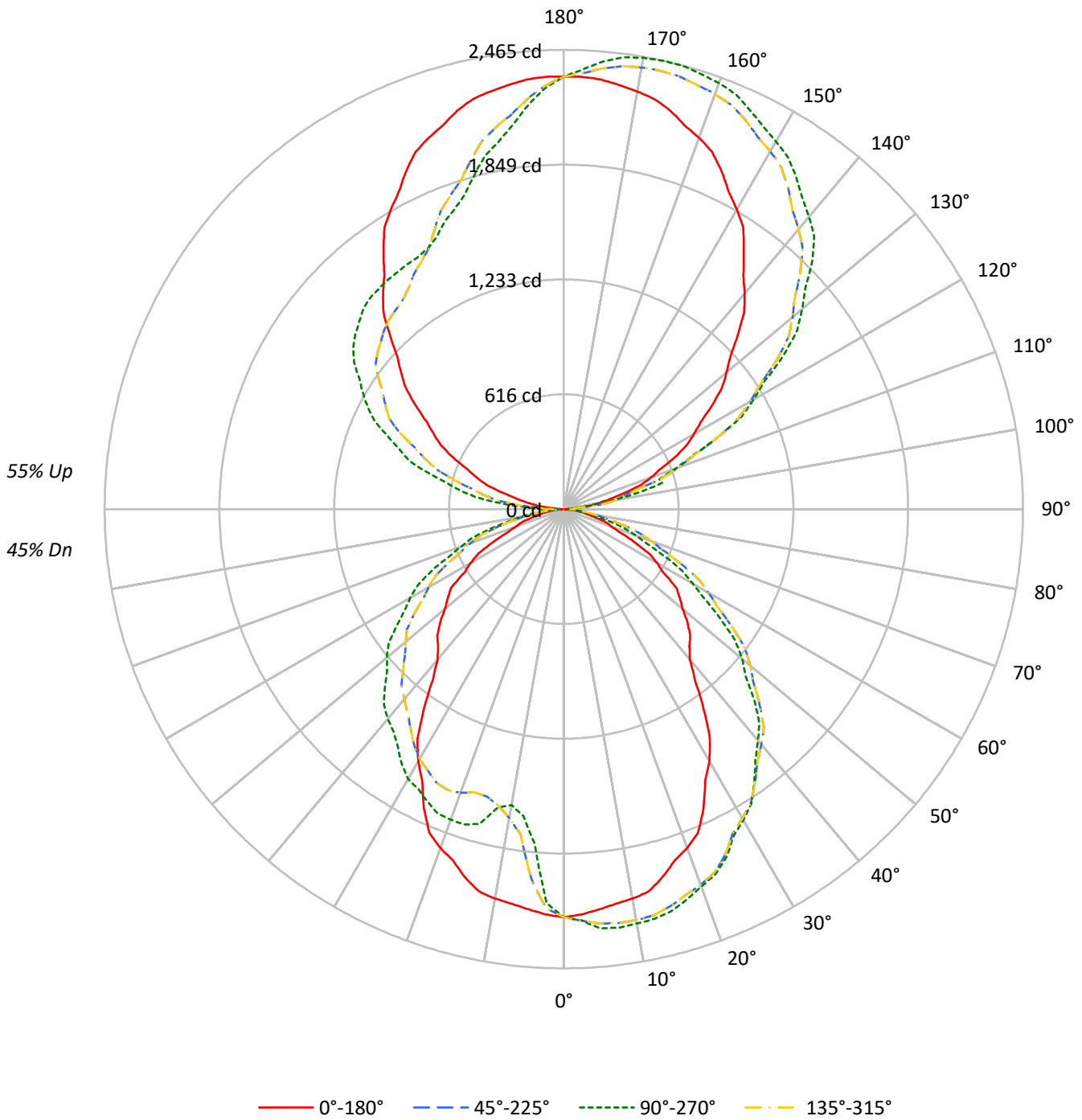
Lumens per Lamp: N/A  
Luminaire Lumens: 12226.5 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 104.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

### 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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				45
1	97	92	89	85	88	85	82	79	71	68	66	57	56	54	45	44	43	38				38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32				32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27				27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23				23
5	67	56	48	42	61	52	44	39	43	38	34	36	32	28	28	26	23	20				20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18				18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16				16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14				14
9	49	37	30	25	45	35	28	23	29	24	20	25	20	18	20	17	15	12				12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11				11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	35372	35372	35372	35372
5°	34957	36609	34957	29176
10°	34804	37032	34804	26451
15°	34207	37330	34207	29240
20°	33266	37059	33266	30494
25°	31617	36761	31617	30860
30°	29130	35937	29130	31188
35°	25775	35147	25775	30629
40°	22194	34184	22194	30964
45°	21911	32962	21911	31024
50°	20903	31355	20903	31141
55°	20796	28923	20796	30834
60°	18645	25775	18645	30712
65°	15897	22708	15897	29845
70°	12826	19241	12826	27658
75°	11123	15889	11123	25427
80°	9475	11845	9475	20530
85°	6298	6298	6298	12578

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 33996 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.1	1.6
10°-20°	550.8	4.5
20°-30°	836.5	6.8
30°-40°	982.1	8.0
40°-50°	996.6	8.2
50°-60°	872.9	7.1
60°-70°	619.2	5.1
70°-80°	318.8	2.6
80°-90°	76.4	0.6
90°-100°	184.7	1.5
100°-110°	538.6	4.4
110°-120°	879.0	7.2
120°-130°	1115.4	9.1
130°-140°	1193.5	9.8
140°-150°	1114.5	9.1
150°-160°	917.1	7.5
160°-170°	615.0	5.0
170°-180°	218.4	1.8
0°-30°	1584.4	13.0
0°-40°	2566.5	21.0
0°-60°	4436.0	36.3
0°-90°	5450.4	44.6
90°-120°	1602.3	13.1
90°-150°	5025.7	41.1
90°-180°	6776.0	55.4
0°-180°	12226.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2191	2191	2191	2191	2191	
5°	2157	2259	2157	1800	2157	205
15°	2046	2233	2046	1749	2046	575
25°	1775	2064	1775	1732	1775	810
35°	1308	1783	1308	1554	1308	815
45°	960	1444	960	1359	960	734
55°	739	1028	739	1095	739	639
65°	416	594	416	781	416	416
75°	178	255	178	408	178	193
85°	34	34	34	68	34	43
90°	7	52	7	101	7	7
95°	73	54	73	316	73	88
105°	342	548	342	755	342	364
115°	656	910	656	1120	656	647
125°	970	1442	970	1374	970	868
135°	1320	1887	1320	1521	1320	1020
145°	1686	2175	1686	1554	1686	1055
155°	2002	2363	2002	1613	2002	920
165°	2213	2464	2213	1857	2213	623
175°	2314	2412	2314	2178	2314	220
180°	2321	2321	2321	2321	2321	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2177.3	2192.4	2207.5	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2
5°	2156.9	2183.3	2209.7	2222.0	2229.5	2235.2	2239.0	2243.7	2251.2	2258.8	2251.2
7.5°	2136.5	2172.0	2207.5	2224.8	2236.1	2245.2	2252.0	2258.0	2261.8	2265.6	2261.8
10°	2122.9	2164.4	2205.9	2224.8	2236.1	2243.7	2247.5	2251.2	2255.0	2258.8	2255.0
12.5°	2102.5	2147.1	2191.6	2213.5	2227.8	2236.9	2240.7	2244.4	2248.2	2252.0	2248.2
15°	2046.5	2106.9	2167.3	2190.8	2202.2	2211.6	2219.2	2225.8	2229.5	2233.3	2229.5
17.5°	1976.9	2050.1	2123.3	2152.9	2168.0	2179.0	2185.8	2191.6	2194.6	2197.6	2194.6
20°	1936.1	2015.4	2094.6	2125.7	2140.8	2150.3	2154.0	2156.9	2156.9	2156.9	2156.9
22.5°	1881.7	1970.1	2058.4	2091.8	2106.9	2114.8	2115.6	2116.9	2119.9	2122.9	2119.9
25°	1774.8	1876.7	1978.6	2021.0	2043.7	2053.1	2049.3	2048.4	2055.9	2063.5	2055.9
27.5°	1644.0	1772.3	1900.6	1944.0	1959.1	1968.6	1972.3	1975.2	1975.2	1975.2	1975.2
30°	1562.5	1705.9	1849.3	1896.5	1911.6	1921.0	1924.8	1927.6	1927.6	1927.6	1927.6
32.5°	1460.6	1631.2	1801.7	1853.4	1865.5	1871.9	1872.7	1873.3	1873.3	1873.3	1873.3
35°	1307.7	1515.3	1722.9	1780.4	1788.0	1791.7	1791.7	1790.8	1787.0	1783.2	1787.0
37.5°	1154.9	1390.4	1625.9	1693.2	1704.6	1707.6	1702.3	1697.4	1693.6	1689.8	1693.6
40°	1053.0	1309.6	1566.2	1638.9	1650.2	1650.2	1638.9	1629.5	1625.7	1621.9	1625.7
42.5°	998.6	1252.2	1505.9	1577.7	1589.1	1587.6	1573.2	1561.5	1557.7	1554.0	1557.7
45°	959.6	1186.0	1412.4	1477.5	1488.9	1487.0	1471.9	1458.7	1451.1	1443.6	1451.1
47.5°	900.1	1099.4	1298.7	1362.6	1381.5	1379.6	1357.0	1338.1	1330.5	1323.0	1330.5
50°	832.2	1028.4	1224.7	1287.9	1306.8	1304.9	1282.2	1263.4	1255.8	1248.3	1255.8
52.5°	784.6	968.8	1153.0	1210.9	1226.8	1221.9	1196.2	1175.1	1167.5	1160.0	1167.5
55°	738.8	893.5	1048.2	1095.4	1106.7	1099.2	1072.8	1050.1	1038.8	1027.5	1038.8
57.5°	631.8	779.0	926.2	972.0	984.1	975.0	944.8	919.0	906.2	893.3	906.2
60°	577.4	709.5	841.6	886.0	901.1	893.5	863.3	836.0	817.1	798.2	817.1
62.5°	516.3	633.3	750.3	795.4	816.5	812.0	781.8	754.4	735.6	716.7	735.6
65°	416.1	518.0	619.9	665.2	691.6	689.7	659.5	632.2	613.3	594.4	613.3
67.5°	326.1	413.6	501.2	545.7	575.9	574.4	541.2	512.5	497.4	482.3	497.4
70°	271.7	347.2	422.7	464.2	494.4	494.4	464.2	437.8	422.7	407.6	422.7
72.5°	237.8	295.1	352.5	391.7	425.0	425.0	391.7	363.8	351.7	339.7	351.7
75°	178.3	212.3	246.3	283.1	320.8	324.6	294.4	269.8	262.3	254.7	262.3
77.5°	129.1	144.9	160.8	189.6	222.9	226.6	201.0	181.0	177.9	174.9	177.9
80°	101.9	105.7	109.4	133.0	163.2	167.0	144.4	127.4	127.4	127.4	127.4
82.5°	67.9	71.7	75.5	92.3	113.4	115.7	99.1	85.9	82.8	79.8	82.8
85°	34.0	34.0	34.0	39.6	47.2	47.2	39.6	34.0	34.0	34.0	34.0
87.5°	8.2	10.1	12.4	16.6	21.0	21.5	18.4	16.6	17.1	17.1	17.1
90°	7.0	16.4	28.1	37.5	44.5	46.9	46.9	49.2	51.6	51.6	51.6
92.5°	25.8	40.8	41.3	41.3	50.2	54.4	58.1	58.6	60.9	60.9	60.9
95°	72.7	79.7	119.6	117.2	79.7	63.3	53.9	53.9	53.9	53.9	53.9
97.5°	138.8	149.1	155.7	208.6	220.4	212.9	173.5	145.8	130.3	123.3	130.3
100°	196.9	201.6	215.7	218.0	276.6	332.9	304.7	269.6	257.9	250.8	257.9
102.5°	255.0	257.9	279.4	289.3	302.9	334.7	432.3	421.5	413.5	412.1	413.5
105°	342.3	344.6	384.4	403.2	412.6	412.6	410.2	457.1	532.1	548.5	532.1
107.5°	435.5	446.3	493.2	543.4	554.2	557.0	544.8	537.8	534.9	536.8	534.9
110°	499.3	515.7	572.0	635.3	651.7	656.4	651.7	644.7	640.0	640.0	640.0



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CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	561.2	585.1	648.9	721.5	749.2	763.3	753.0	747.8	743.1	746.9	743.1
115°	656.4	691.5	775.9	850.9	907.2	914.2	911.9	911.9	909.5	909.5	909.5
117.5°	744.5	800.8	895.5	982.7	1047.9	1066.6	1076.0	1073.2	1070.4	1075.0	1070.4
120°	806.4	872.0	979.9	1078.3	1141.6	1169.7	1179.1	1174.4	1179.1	1174.4	1179.1
122.5°	872.0	952.7	1058.6	1160.8	1235.4	1267.3	1278.5	1279.5	1280.4	1277.6	1280.4
125°	970.5	1068.9	1193.2	1298.7	1376.0	1413.5	1422.9	1425.3	1430.0	1441.7	1430.0
127.5°	1069.9	1181.5	1317.9	1419.6	1498.9	1544.3	1558.9	1564.0	1573.9	1579.0	1573.9
130°	1139.3	1265.9	1404.2	1500.3	1577.6	1626.9	1652.7	1659.7	1671.4	1669.1	1671.4
132.5°	1212.4	1344.6	1484.8	1584.7	1656.4	1709.4	1731.4	1751.6	1755.8	1759.1	1755.8
135°	1319.8	1462.8	1603.4	1701.9	1769.9	1821.4	1849.6	1868.3	1880.0	1887.1	1880.0
137.5°	1432.8	1583.7	1718.8	1806.4	1874.9	1919.4	1951.3	1971.0	1983.2	1988.8	1983.2
140°	1509.7	1655.0	1786.3	1877.7	1938.6	1983.2	2011.3	2034.8	2048.8	2048.8	2048.8
142.5°	1582.8	1726.3	1853.8	1945.2	1998.7	2039.4	2069.4	2087.3	2103.2	2103.2	2103.2
145°	1685.5	1828.5	1945.7	2037.1	2081.6	2119.1	2152.0	2166.0	2175.4	2175.4	2175.4
147.5°	1792.8	1919.4	2026.3	2114.0	2151.5	2195.6	2221.3	2232.6	2244.3	2239.2	2244.3
150°	1856.6	1973.8	2076.9	2159.0	2196.5	2238.7	2264.5	2273.9	2285.6	2278.5	2285.6
152.5°	1918.5	2030.1	2123.8	2200.3	2232.1	2274.3	2303.9	2313.2	2321.2	2316.1	2321.2
155°	2001.9	2100.4	2187.1	2257.5	2285.6	2325.4	2353.6	2365.3	2374.7	2362.9	2374.7
157.5°	2076.5	2161.3	2236.8	2301.5	2331.5	2365.8	2392.0	2406.5	2415.9	2410.8	2415.9
160°	2121.5	2198.8	2266.8	2327.8	2355.9	2386.4	2414.5	2430.9	2440.3	2433.3	2440.3
162.5°	2159.0	2228.9	2293.1	2348.4	2372.8	2399.5	2433.3	2447.8	2457.2	2448.3	2457.2
165°	2212.9	2269.2	2325.4	2372.3	2393.4	2414.5	2449.7	2466.1	2473.1	2463.7	2473.1
167.5°	2253.7	2296.8	2342.3	2382.6	2398.1	2418.7	2453.9	2467.5	2476.4	2464.7	2476.4
170°	2276.2	2313.7	2353.6	2386.4	2398.1	2416.9	2452.0	2463.7	2470.8	2459.1	2470.8
172.5°	2295.0	2323.1	2355.4	2384.5	2390.6	2405.6	2438.9	2450.6	2455.8	2445.9	2455.8
175°	2313.7	2330.1	2353.6	2372.3	2370.0	2379.3	2407.5	2416.9	2426.2	2412.2	2426.2
177.5°	2322.6	2330.1	2337.6	2348.9	2341.4	2341.4	2362.0	2367.6	2369.5	2362.0	2369.5
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2211.2	2211.2	2211.2	2211.2	2211.2	2207.5	2192.4	2177.3	2177.3	2177.3	2165.9
5°	2243.7	2239.0	2235.2	2229.5	2222.0	2209.7	2183.3	2156.9	2145.6	2134.2	2086.1
7.5°	2258.0	2252.0	2245.2	2236.1	2224.8	2207.5	2172.0	2136.5	2085.9	2035.4	1928.2
10°	2251.2	2247.5	2243.7	2236.1	2224.8	2205.9	2164.4	2122.9	2021.0	1919.1	1817.2
12.5°	2244.4	2240.7	2236.9	2227.8	2213.5	2191.6	2147.1	2102.5	1958.4	1814.2	1722.1
15°	2225.8	2219.2	2211.6	2202.2	2190.8	2167.3	2106.9	2046.5	1884.2	1721.9	1644.5
17.5°	2191.6	2185.8	2179.0	2168.0	2152.9	2123.3	2050.1	1976.9	1807.0	1637.2	1587.4
20°	2156.9	2154.0	2150.3	2140.8	2125.7	2094.6	2015.4	1936.1	1766.3	1596.4	1573.8
22.5°	2116.9	2115.6	2114.8	2106.9	2091.8	2058.4	1970.1	1881.7	1714.9	1548.1	1548.9
25°	2048.4	2049.3	2053.1	2043.7	2021.0	1978.6	1876.7	1774.8	1627.6	1480.4	1505.9
27.5°	1975.2	1972.3	1968.6	1959.1	1944.0	1900.6	1772.3	1644.0	1527.7	1411.5	1453.8
30°	1927.6	1924.8	1921.0	1911.6	1896.5	1849.3	1705.9	1562.5	1464.3	1366.2	1415.3
32.5°	1873.3	1872.7	1871.9	1865.5	1853.4	1801.7	1631.2	1460.6	1389.6	1318.7	1370.0
35°	1790.8	1791.7	1791.7	1788.0	1780.4	1722.9	1515.3	1307.7	1277.5	1247.3	1307.7
37.5°	1697.4	1702.3	1707.6	1704.6	1693.2	1625.9	1390.4	1154.9	1164.7	1174.5	1247.7
40°	1629.5	1638.9	1650.2	1650.2	1638.9	1566.2	1309.6	1053.0	1086.9	1120.9	1200.2
42.5°	1561.5	1573.2	1587.6	1589.1	1577.7	1505.9	1252.2	998.6	1035.6	1072.6	1154.9
45°	1458.7	1471.9	1487.0	1488.9	1477.5	1412.4	1186.0	959.6	982.2	1004.8	1084.1
47.5°	1338.1	1357.0	1379.6	1381.5	1362.6	1298.7	1099.4	900.1	916.7	933.3	1014.5
50°	1263.4	1282.2	1304.9	1306.8	1287.9	1224.7	1028.4	832.2	854.8	877.5	962.4
52.5°	1175.1	1196.2	1221.9	1226.8	1210.9	1153.0	968.8	784.6	798.2	811.8	903.5
55°	1050.1	1072.8	1099.2	1106.7	1095.4	1048.2	893.5	738.8	727.5	716.1	809.5
57.5°	919.0	944.8	975.0	984.1	972.0	926.2	779.0	631.8	622.0	612.2	713.3
60°	836.0	863.3	893.5	901.1	886.0	841.6	709.5	577.4	558.6	539.7	645.4
62.5°	754.4	781.8	812.0	816.5	795.4	750.3	633.3	516.3	503.5	490.6	593.3
65°	632.2	659.5	689.7	691.6	665.2	619.9	518.0	416.1	423.6	431.2	523.7
67.5°	512.5	541.2	574.4	575.9	545.7	501.2	413.6	326.1	351.0	375.9	459.1
70°	437.8	464.2	494.4	494.4	464.2	422.7	347.2	271.7	305.7	339.7	416.1
72.5°	363.8	391.7	425.0	425.0	391.7	352.5	295.1	237.8	271.7	305.7	368.5
75°	269.8	294.4	324.6	320.8	283.1	246.3	212.3	178.3	212.3	246.3	294.4
77.5°	181.0	201.0	226.6	222.9	189.6	160.8	144.9	129.1	157.0	184.9	218.5
80°	127.4	144.4	167.0	163.2	133.0	109.4	105.7	101.9	120.8	139.6	164.2
82.5°	85.9	99.1	115.7	113.4	92.3	75.5	71.7	67.9	83.8	99.6	116.6
85°	34.0	39.6	47.2	47.2	39.6	34.0	34.0	34.0	41.5	49.1	56.6
87.5°	16.6	18.4	21.5	21.0	16.6	12.4	10.1	8.2	13.1	18.0	22.0
90°	49.2	46.9	46.9	44.5	37.5	28.1	16.4	7.0	16.4	25.8	42.2
92.5°	58.6	58.1	54.4	50.2	41.3	41.3	40.8	25.8	44.5	63.3	91.0
95°	53.9	53.9	63.3	79.7	117.2	119.6	79.7	72.7	103.1	145.3	182.8
97.5°	145.8	173.5	212.9	220.4	208.6	155.7	149.1	138.8	188.9	230.7	291.1
100°	269.6	304.7	332.9	276.6	218.0	215.7	201.6	196.9	250.8	290.7	349.3
102.5°	421.5	432.3	334.7	302.9	289.3	279.4	257.9	255.0	309.0	363.8	413.0
105°	457.1	410.2	412.6	412.6	403.2	384.4	344.6	342.3	403.2	466.5	527.4
107.5°	537.8	544.8	557.0	554.2	543.4	493.2	446.3	435.5	490.4	566.4	633.4
110°	644.7	651.7	656.4	651.7	635.3	572.0	515.7	499.3	548.5	628.2	700.9



TEST NUMBER: P1435879

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	747.8	753.0	763.3	749.2	721.5	648.9	585.1	561.2	610.4	692.0	766.5
115°	911.9	911.9	914.2	907.2	850.9	775.9	691.5	656.4	698.6	773.6	855.6
117.5°	1073.2	1076.0	1066.6	1047.9	982.7	895.5	800.8	744.5	777.8	857.0	941.4
120°	1174.4	1179.1	1169.7	1141.6	1078.3	979.9	872.0	806.4	832.2	909.5	993.9
122.5°	1279.5	1278.5	1267.3	1235.4	1160.8	1058.6	952.7	872.0	882.8	954.6	1037.1
125°	1425.3	1422.9	1413.5	1376.0	1298.7	1193.2	1068.9	970.5	956.4	1017.4	1101.8
127.5°	1564.0	1558.9	1544.3	1498.9	1419.6	1317.9	1181.5	1069.9	1038.5	1076.9	1154.3
130°	1659.7	1652.7	1626.9	1577.6	1500.3	1404.2	1265.9	1139.3	1094.7	1118.2	1186.2
132.5°	1751.6	1731.4	1709.4	1656.4	1584.7	1484.8	1344.6	1212.4	1151.0	1161.3	1214.3
135°	1868.3	1849.6	1821.4	1769.9	1701.9	1603.4	1462.8	1319.8	1235.4	1226.0	1256.5
137.5°	1971.0	1951.3	1919.4	1874.9	1806.4	1718.8	1583.7	1432.8	1326.3	1294.9	1306.6
140°	2034.8	2011.3	1983.2	1938.6	1877.7	1786.3	1655.0	1509.7	1390.1	1345.6	1338.5
142.5°	2087.3	2069.4	2039.4	1998.7	1945.2	1853.8	1726.3	1582.8	1455.7	1398.1	1381.7
145°	2166.0	2152.0	2119.1	2081.6	2037.1	1945.7	1828.5	1685.5	1558.9	1483.9	1448.7
147.5°	2232.6	2221.3	2195.6	2151.5	2114.0	2026.3	1919.4	1792.8	1663.0	1570.1	1524.7
150°	2273.9	2264.5	2238.7	2196.5	2159.0	2076.9	1973.8	1856.6	1732.4	1633.9	1575.3
152.5°	2313.2	2303.9	2274.3	2232.1	2200.3	2123.8	2030.1	1918.5	1792.4	1693.9	1633.4
155°	2365.3	2353.6	2325.4	2285.6	2257.5	2187.1	2100.4	2001.9	1894.1	1791.0	1723.0
157.5°	2406.5	2392.0	2365.8	2331.5	2301.5	2236.8	2161.3	2076.5	1982.2	1883.8	1814.4
160°	2430.9	2414.5	2386.4	2355.9	2327.8	2266.8	2198.8	2121.5	2034.8	1945.7	1870.7
162.5°	2447.8	2433.3	2399.5	2372.8	2348.4	2293.1	2228.9	2159.0	2081.6	2003.8	1934.4
165°	2466.1	2449.7	2414.5	2393.4	2372.3	2325.4	2269.2	2212.9	2147.3	2084.0	2027.7
167.5°	2467.5	2453.9	2418.7	2398.1	2382.6	2342.3	2296.8	2253.7	2202.6	2152.9	2106.0
170°	2463.7	2452.0	2416.9	2398.1	2386.4	2353.6	2313.7	2276.2	2236.4	2194.2	2156.7
172.5°	2450.6	2438.9	2405.6	2390.6	2384.5	2355.4	2323.1	2295.0	2260.7	2229.8	2199.8
175°	2416.9	2407.5	2379.3	2370.0	2372.3	2353.6	2330.1	2313.7	2292.6	2273.9	2257.5
177.5°	2367.6	2362.0	2341.4	2341.4	2348.9	2337.6	2330.1	2322.6	2313.2	2307.6	2302.0
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1435879

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2150.8	2138.8	2129.7	2122.2	2119.1	2116.1	2119.1	2122.2	2129.7	2138.8	2150.8
5°	2025.7	1961.6	1893.6	1838.0	1819.1	1800.2	1819.1	1838.0	1893.6	1961.6	2025.7
7.5°	1802.1	1724.7	1696.1	1673.0	1667.0	1661.0	1667.0	1673.0	1696.1	1724.7	1802.1
10°	1715.3	1653.0	1630.4	1613.4	1613.4	1613.4	1613.4	1613.4	1630.4	1653.0	1715.3
12.5°	1647.4	1609.3	1607.8	1610.4	1625.5	1640.6	1625.5	1610.4	1607.8	1609.3	1647.4
15°	1595.5	1601.1	1661.5	1711.5	1730.4	1749.3	1730.4	1711.5	1661.5	1601.1	1595.5
17.5°	1577.6	1610.0	1684.7	1744.6	1759.7	1774.8	1759.7	1744.6	1684.7	1610.0	1577.6
20°	1600.2	1641.7	1698.3	1744.6	1759.7	1774.8	1759.7	1744.6	1698.3	1641.7	1600.2
22.5°	1605.5	1656.1	1700.6	1737.8	1752.9	1768.0	1752.9	1737.8	1700.6	1656.1	1605.5
25°	1588.9	1649.3	1687.0	1717.2	1724.7	1732.3	1724.7	1717.2	1687.0	1649.3	1588.9
27.5°	1548.9	1615.3	1653.0	1682.7	1688.0	1693.2	1688.0	1682.7	1653.0	1615.3	1548.9
30°	1513.4	1581.3	1619.1	1650.2	1661.5	1672.9	1661.5	1650.2	1619.1	1581.3	1513.4
32.5°	1462.1	1531.5	1578.3	1614.0	1616.2	1618.5	1616.2	1614.0	1578.3	1531.5	1462.1
35°	1398.3	1470.0	1522.8	1561.5	1557.7	1554.0	1557.7	1561.5	1522.8	1470.0	1398.3
37.5°	1342.1	1412.3	1458.3	1494.0	1498.5	1503.0	1498.5	1494.0	1458.3	1412.3	1342.1
40°	1294.5	1366.2	1415.3	1454.0	1461.5	1469.1	1461.5	1454.0	1415.3	1366.2	1294.5
42.5°	1252.2	1325.5	1374.5	1413.2	1420.7	1428.3	1420.7	1413.2	1374.5	1325.5	1252.2
45°	1182.2	1257.7	1310.5	1351.1	1354.9	1358.7	1354.9	1351.1	1310.5	1257.7	1182.2
47.5°	1117.1	1193.0	1242.0	1279.8	1283.6	1287.3	1283.6	1279.8	1242.0	1193.0	1117.1
50°	1068.1	1145.4	1194.5	1232.2	1236.0	1239.8	1236.0	1232.2	1194.5	1145.4	1068.1
52.5°	1021.3	1101.6	1144.7	1177.9	1181.7	1185.4	1181.7	1177.9	1144.7	1101.6	1021.3
55°	937.9	1022.8	1064.3	1095.4	1095.4	1095.4	1095.4	1095.4	1064.3	1022.8	937.9
57.5°	851.4	938.6	974.8	1003.1	1007.7	1012.2	1007.7	1003.1	974.8	938.6	851.4
60°	792.6	881.2	911.4	936.0	943.5	951.1	943.5	936.0	911.4	881.2	792.6
62.5°	734.4	820.1	850.3	874.1	878.6	883.1	878.6	874.1	850.3	820.1	734.4
65°	644.4	719.9	750.1	773.7	777.5	781.2	777.5	773.7	750.1	719.9	644.4
67.5°	561.8	623.7	644.8	661.4	664.4	667.4	664.4	661.4	644.8	623.7	561.8
70°	506.7	559.5	574.6	585.9	585.9	585.9	585.9	585.9	574.6	559.5	506.7
72.5°	441.0	484.8	499.9	512.0	515.0	518.0	515.0	512.0	499.9	484.8	441.0
75°	347.2	379.3	390.6	400.1	403.8	407.6	403.8	400.1	390.6	379.3	347.2
77.5°	254.0	275.1	281.9	288.0	291.7	295.5	291.7	288.0	281.9	275.1	254.0
80°	190.6	205.7	209.5	213.2	217.0	220.8	217.0	213.2	209.5	205.7	190.6
82.5°	134.0	144.5	148.3	151.3	152.1	152.8	152.1	151.3	148.3	144.5	134.0
85°	64.2	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	64.2
87.5°	24.4	27.7	30.9	32.8	34.7	33.7	34.7	32.8	30.9	27.7	24.4
90°	53.9	70.3	86.7	96.1	105.5	100.8	105.5	96.1	86.7	70.3	53.9
92.5°	108.3	136.0	156.1	173.0	180.5	179.6	180.5	173.0	156.1	136.0	108.3
95°	218.0	250.8	283.6	307.1	321.2	316.5	321.2	307.1	283.6	250.8	218.0
97.5°	336.2	380.2	416.8	438.8	452.9	462.3	452.9	438.8	416.8	380.2	336.2
100°	414.9	457.1	499.3	525.1	548.5	557.9	548.5	525.1	499.3	457.1	414.9
102.5°	478.7	534.0	580.0	607.6	627.3	636.7	627.3	607.6	580.0	534.0	478.7
105°	583.7	642.3	691.5	726.7	747.8	754.8	747.8	726.7	691.5	642.3	583.7
107.5°	688.7	749.2	794.7	833.6	859.4	874.4	859.4	833.6	794.7	749.2	688.7
110°	771.2	820.5	869.7	904.9	930.6	940.0	930.6	904.9	869.7	820.5	771.2



TEST NUMBER: P1435879

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	840.6	895.5	944.7	979.9	1009.4	1022.5	1009.4	979.9	944.7	895.5	840.6
115°	937.7	1010.3	1054.9	1087.7	1108.8	1120.5	1108.8	1087.7	1054.9	1010.3	937.7
117.5°	1018.3	1094.3	1143.0	1168.3	1178.2	1186.6	1178.2	1168.3	1143.0	1094.3	1018.3
120°	1068.9	1139.3	1195.5	1228.4	1240.1	1244.8	1240.1	1228.4	1195.5	1139.3	1068.9
122.5°	1115.8	1182.4	1236.8	1277.1	1296.3	1301.0	1296.3	1277.1	1236.8	1182.4	1115.8
125°	1181.5	1244.8	1301.0	1340.9	1362.0	1373.7	1362.0	1340.9	1301.0	1244.8	1181.5
127.5°	1238.7	1307.1	1358.7	1394.8	1415.4	1424.8	1415.4	1394.8	1358.7	1307.1	1238.7
130°	1270.5	1340.9	1392.4	1432.3	1451.1	1460.4	1451.1	1432.3	1392.4	1340.9	1270.5
132.5°	1294.9	1369.0	1422.5	1458.6	1479.2	1488.6	1479.2	1458.6	1422.5	1369.0	1294.9
135°	1324.5	1401.8	1458.1	1493.2	1512.0	1521.4	1512.0	1493.2	1458.1	1401.8	1324.5
137.5°	1350.3	1420.6	1479.2	1516.2	1533.1	1539.2	1533.1	1516.2	1479.2	1420.6	1350.3
140°	1369.0	1430.0	1488.6	1523.7	1542.5	1544.8	1542.5	1523.7	1488.6	1430.0	1369.0
142.5°	1393.4	1441.2	1492.3	1527.5	1546.2	1550.4	1546.2	1527.5	1492.3	1441.2	1393.4
145°	1437.0	1465.1	1500.3	1533.1	1549.5	1554.2	1549.5	1533.1	1500.3	1465.1	1437.0
147.5°	1491.8	1500.7	1519.0	1540.6	1556.5	1559.8	1556.5	1540.6	1519.0	1500.7	1491.8
150°	1533.1	1530.8	1537.8	1551.9	1565.9	1563.6	1565.9	1551.9	1537.8	1530.8	1533.1
152.5°	1580.0	1566.4	1565.9	1572.5	1579.0	1578.6	1579.0	1572.5	1565.9	1566.4	1580.0
155°	1659.7	1633.9	1619.8	1615.1	1615.1	1612.8	1615.1	1615.1	1619.8	1633.9	1659.7
157.5°	1747.4	1711.3	1690.2	1678.9	1675.6	1670.5	1675.6	1678.9	1690.2	1711.3	1747.4
160°	1807.4	1767.5	1746.4	1727.7	1720.6	1713.6	1720.6	1727.7	1746.4	1767.5	1807.4
162.5°	1863.6	1825.7	1802.7	1785.8	1778.8	1768.0	1778.8	1785.8	1802.7	1825.7	1863.6
165°	1955.1	1915.2	1889.4	1875.3	1866.0	1856.6	1866.0	1875.3	1889.4	1915.2	1955.1
167.5°	2046.5	2002.9	1986.0	1970.1	1961.1	1944.3	1961.1	1970.1	1986.0	2002.9	2046.5
170°	2102.7	2062.9	2053.5	2039.4	2023.0	2004.3	2023.0	2039.4	2053.5	2062.9	2102.7
172.5°	2151.5	2124.8	2115.4	2101.3	2096.2	2081.2	2096.2	2101.3	2115.4	2124.8	2151.5
175°	2222.3	2201.2	2201.2	2198.8	2191.8	2177.7	2191.8	2198.8	2201.2	2201.2	2222.3
177.5°	2281.4	2270.1	2277.6	2277.6	2275.7	2262.6	2275.7	2277.6	2277.6	2270.1	2281.4
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1435879

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2190.8	2190.8	2190.8	2190.8
2.5°	2165.9	2177.3	2177.3	2177.3
5°	2086.1	2134.2	2145.6	2156.9
7.5°	1928.2	2035.4	2085.9	2136.5
10°	1817.2	1919.1	2021.0	2122.9
12.5°	1722.1	1814.2	1958.4	2102.5
15°	1644.5	1721.9	1884.2	2046.5
17.5°	1587.4	1637.2	1807.0	1976.9
20°	1573.8	1596.4	1766.3	1936.1
22.5°	1548.9	1548.1	1714.9	1881.7
25°	1505.9	1480.4	1627.6	1774.8
27.5°	1453.8	1411.5	1527.7	1644.0
30°	1415.3	1366.2	1464.3	1562.5
32.5°	1370.0	1318.7	1389.6	1460.6
35°	1307.7	1247.3	1277.5	1307.7
37.5°	1247.7	1174.5	1164.7	1154.9
40°	1200.2	1120.9	1086.9	1053.0
42.5°	1154.9	1072.6	1035.6	998.6
45°	1084.1	1004.8	982.2	959.6
47.5°	1014.5	933.3	916.7	900.1
50°	962.4	877.5	854.8	832.2
52.5°	903.5	811.8	798.2	784.6
55°	809.5	716.1	727.5	738.8
57.5°	713.3	612.2	622.0	631.8
60°	645.4	539.7	558.6	577.4
62.5°	593.3	490.6	503.5	516.3
65°	523.7	431.2	423.6	416.1
67.5°	459.1	375.9	351.0	326.1
70°	416.1	339.7	305.7	271.7
72.5°	368.5	305.7	271.7	237.8
75°	294.4	246.3	212.3	178.3
77.5°	218.5	184.9	157.0	129.1
80°	164.2	139.6	120.8	101.9
82.5°	116.6	99.6	83.8	67.9
85°	56.6	49.1	41.5	34.0
87.5°	22.0	18.0	13.1	8.2
90°	42.2	25.8	16.4	7.0
92.5°	91.0	63.3	44.5	25.8
95°	182.8	145.3	103.1	72.7
97.5°	291.1	230.7	188.9	138.8
100°	349.3	290.7	250.8	196.9
102.5°	413.0	363.8	309.0	255.0
105°	527.4	466.5	403.2	342.3
107.5°	633.4	566.4	490.4	435.5
110°	700.9	628.2	548.5	499.3



TEST NUMBER: P1435879

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	766.5	692.0	610.4	561.2
115°	855.6	773.6	698.6	656.4
117.5°	941.4	857.0	777.8	744.5
120°	993.9	909.5	832.2	806.4
122.5°	1037.1	954.6	882.8	872.0
125°	1101.8	1017.4	956.4	970.5
127.5°	1154.3	1076.9	1038.5	1069.9
130°	1186.2	1118.2	1094.7	1139.3
132.5°	1214.3	1161.3	1151.0	1212.4
135°	1256.5	1226.0	1235.4	1319.8
137.5°	1306.6	1294.9	1326.3	1432.8
140°	1338.5	1345.6	1390.1	1509.7
142.5°	1381.7	1398.1	1455.7	1582.8
145°	1448.7	1483.9	1558.9	1685.5
147.5°	1524.7	1570.1	1663.0	1792.8
150°	1575.3	1633.9	1732.4	1856.6
152.5°	1633.4	1693.9	1792.4	1918.5
155°	1723.0	1791.0	1894.1	2001.9
157.5°	1814.4	1883.8	1982.2	2076.5
160°	1870.7	1945.7	2034.8	2121.5
162.5°	1934.4	2003.8	2081.6	2159.0
165°	2027.7	2084.0	2147.3	2212.9
167.5°	2106.0	2152.9	2202.6	2253.7
170°	2156.7	2194.2	2236.4	2276.2
172.5°	2199.8	2229.8	2260.7	2295.0
175°	2257.5	2273.9	2292.6	2313.7
177.5°	2302.0	2307.6	2313.2	2322.6
180°	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1435879  
 CATALOG NUMBER: SQ2W-FA-K-150U-125D-L840-UNV-STD-W-WM-4

**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	18.24	19.06	19.25	20.07	21.42	19.44	20.26	20.44	21.27	22.61
	3H	19.33	20.06	20.34	21.08	22.45	20.68	21.41	21.69	22.43	23.80
	4H	19.68	20.37	20.70	21.39	22.77	21.07	21.76	22.09	22.78	24.16
	6H	19.84	20.47	20.87	21.50	22.89	21.23	21.86	22.26	22.89	24.28
	8H	19.87	20.47	20.91	21.52	22.90	21.25	21.85	22.29	22.90	24.28
	12H	19.86	20.44	20.91	21.48	22.89	21.23	21.81	22.28	22.85	24.25
4H	2H	19.10	19.79	20.14	20.82	22.19	20.02	20.71	21.05	21.73	23.11
	3H	20.49	21.06	21.53	22.12	23.50	21.48	22.05	22.52	23.11	24.49
	4H	20.94	21.47	21.99	22.51	23.92	21.95	22.48	23.00	23.52	24.93
	6H	21.17	21.62	22.23	22.69	24.09	22.17	22.62	23.23	23.69	25.10
	8H	21.22	21.65	22.28	22.71	24.13	22.22	22.64	23.28	23.70	25.12
	12H	21.22	21.61	22.30	22.68	24.11	22.20	22.59	23.28	23.66	25.09
8H	4H	21.32	21.74	22.38	22.80	24.22	22.14	22.57	23.20	23.63	25.05
	6H	21.67	22.02	22.75	23.12	24.54	22.46	22.80	23.54	23.91	25.33
	8H	21.79	22.09	22.88	23.18	24.62	22.55	22.86	23.64	23.94	25.38
	12H	21.82	22.09	22.91	23.17	24.65	22.56	22.83	23.66	23.91	25.39
12H	4H	21.32	21.70	22.40	22.78	24.20	22.11	22.49	23.19	23.57	24.99
	6H	21.74	22.05	22.83	23.13	24.57	22.47	22.78	23.56	23.87	25.30
	8H	21.88	22.15	22.98	23.23	24.71	22.58	22.85	23.68	23.94	25.41