

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: P1435878

Luminaire Tested: SQ2W-FA-K-150U-125D-L835-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435878  
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-L835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

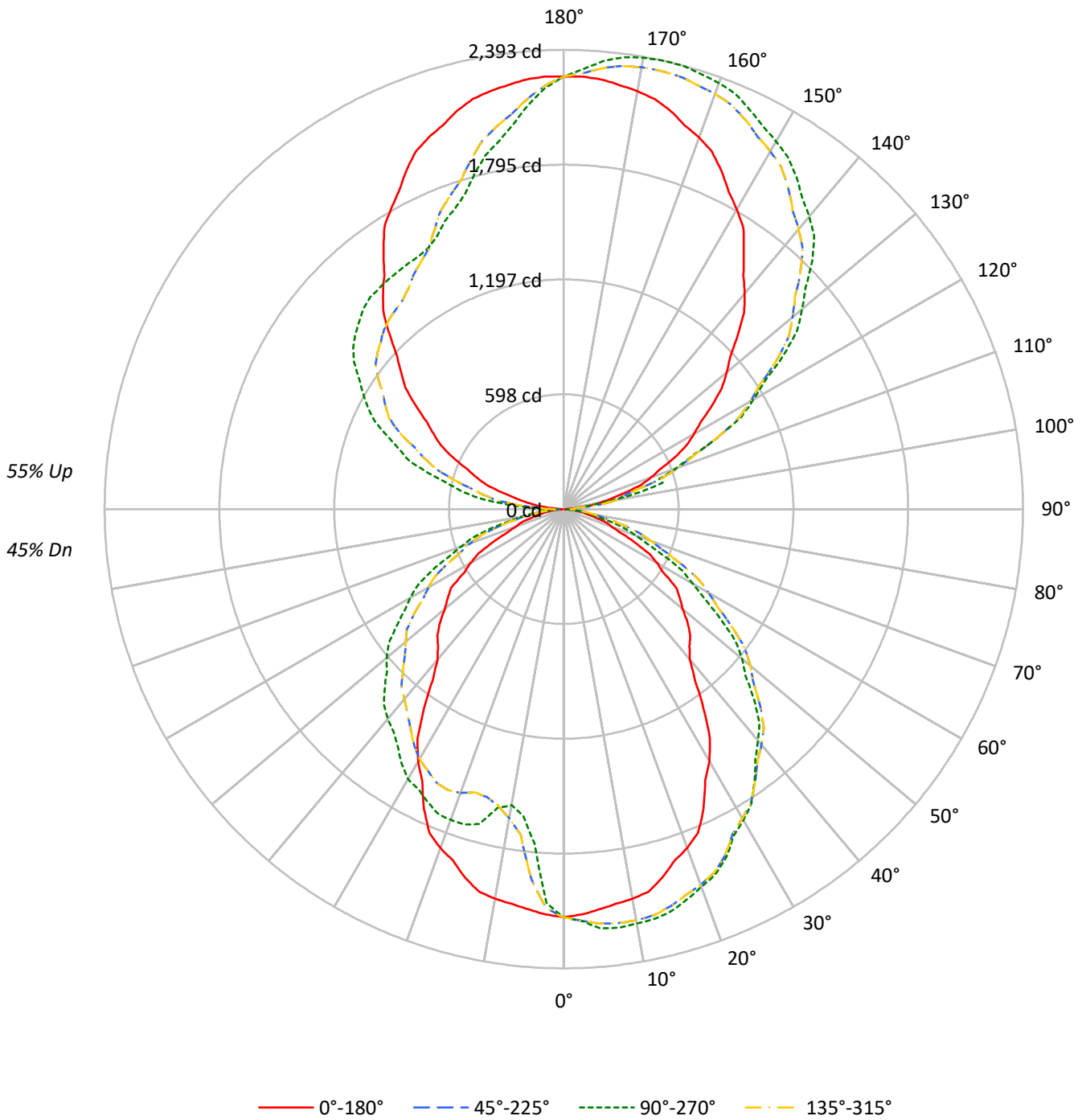
Lumens per Lamp: N/A  
Luminaire Lumens: 11872.6 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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-L835-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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	52	44	39	43	38	34	36	32	28	28	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	25	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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

	0°	90°	180°	270°
0°	34348	34348	34348	34348
5°	33944	35549	33944	28332
10°	33798	35960	33798	25685
15°	33216	36250	33216	28392
20°	32302	35985	32302	29611
25°	30702	35695	30702	29966
30°	28286	34896	28286	30284
35°	25030	34130	25030	29743
40°	21551	33196	21551	30066
45°	21276	32008	21276	30124
50°	20298	30446	20298	30240
55°	20194	28084	20194	29942
60°	18106	25029	18106	29821
65°	15434	22051	15434	28981
70°	12458	18684	12458	26860
75°	10804	15433	10804	24691
80°	9196	11501	9196	19935
85°	6113	6113	6113	12226

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 33012 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	1.6
10°-20°	534.9	4.5
20°-30°	812.3	6.8
30°-40°	953.6	8.0
40°-50°	967.8	8.2
50°-60°	847.7	7.1
60°-70°	601.2	5.1
70°-80°	309.6	2.6
80°-90°	74.2	0.6
90°-100°	179.4	1.5
100°-110°	523.0	4.4
110°-120°	853.6	7.2
120°-130°	1083.1	9.1
130°-140°	1158.9	9.8
140°-150°	1082.2	9.1
150°-160°	890.5	7.5
160°-170°	597.2	5.0
170°-180°	212.1	1.8
0°-30°	1538.5	13.0
0°-40°	2492.2	21.0
0°-60°	4307.6	36.3
0°-90°	5292.6	44.6
90°-120°	1556.0	13.1
90°-150°	4880.2	41.1
90°-180°	6580.0	55.4
0°-180°	11872.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2127	2127	2127	2127	2127	
5°	2094	2193	2094	1748	2094	199
15°	1987	2169	1987	1699	1987	558
25°	1723	2004	1723	1682	1723	787
35°	1270	1732	1270	1509	1270	791
45°	932	1402	932	1319	932	712
55°	717	998	717	1064	717	621
65°	404	577	404	759	404	403
75°	173	247	173	396	173	187
85°	33	33	33	66	33	41
90°	7	50	7	98	7	6
95°	71	52	71	307	71	85
105°	332	533	332	733	332	353
115°	637	883	637	1088	637	628
125°	942	1400	942	1334	942	843
135°	1282	1832	1282	1477	1282	990
145°	1637	2112	1637	1509	1637	1024
155°	1944	2294	1944	1566	1944	894
165°	2149	2392	2149	1803	2149	605
175°	2247	2342	2247	2115	2247	213
180°	2254	2254	2254	2254	2254	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2114.2	2128.9	2143.5	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
5°	2094.4	2120.1	2145.7	2157.7	2165.0	2170.5	2174.1	2178.7	2186.1	2193.4	2186.1
7.5°	2074.6	2109.1	2143.5	2160.4	2171.4	2180.2	2186.8	2192.7	2196.3	2200.0	2196.3
10°	2061.5	2101.8	2142.1	2160.4	2171.4	2178.7	2182.4	2186.1	2189.7	2193.4	2189.7
12.5°	2041.7	2084.9	2128.2	2149.4	2163.3	2172.1	2175.8	2179.5	2183.1	2186.8	2183.1
15°	1987.2	2045.9	2104.5	2127.4	2138.4	2147.6	2154.9	2161.3	2165.0	2168.7	2165.0
17.5°	1919.6	1990.7	2061.8	2090.6	2105.3	2115.9	2122.5	2128.2	2131.1	2134.0	2131.1
20°	1880.0	1957.0	2034.0	2064.2	2078.9	2088.0	2091.7	2094.4	2094.4	2094.4	2094.4
22.5°	1827.3	1913.0	1998.8	2031.2	2045.9	2053.6	2054.3	2055.6	2058.5	2061.5	2058.5
25°	1723.4	1822.3	1921.3	1962.5	1984.5	1993.7	1990.0	1989.1	1996.4	2003.7	1996.4
27.5°	1596.4	1721.0	1845.6	1887.7	1902.4	1911.6	1915.2	1918.0	1918.0	1918.0	1918.0
30°	1517.2	1656.5	1795.8	1841.6	1856.2	1865.4	1869.1	1871.8	1871.8	1871.8	1871.8
32.5°	1418.3	1583.9	1749.6	1799.8	1811.5	1817.7	1818.5	1819.0	1819.0	1819.0	1819.0
35°	1269.9	1471.4	1673.0	1728.9	1736.2	1739.9	1739.9	1739.0	1735.3	1731.6	1735.3
37.5°	1121.4	1350.1	1578.8	1644.2	1655.2	1658.1	1653.0	1648.2	1644.6	1640.9	1644.6
40°	1022.5	1271.7	1520.9	1591.4	1602.4	1602.4	1591.4	1582.3	1578.6	1575.0	1578.6
42.5°	969.7	1216.0	1462.3	1532.1	1543.1	1541.6	1527.7	1516.3	1512.7	1509.0	1512.7
45°	931.8	1151.7	1371.6	1434.8	1445.8	1443.9	1429.3	1416.4	1409.1	1401.8	1409.1
47.5°	874.1	1067.6	1261.1	1323.2	1341.5	1339.7	1317.7	1299.4	1292.0	1284.7	1292.0
50°	808.1	998.7	1189.2	1250.6	1268.9	1267.1	1245.1	1226.8	1219.5	1212.1	1219.5
52.5°	761.9	940.8	1119.6	1175.9	1191.2	1186.5	1161.6	1141.0	1133.7	1126.4	1133.7
55°	717.4	867.6	1017.9	1063.7	1074.7	1067.4	1041.7	1019.7	1008.7	997.7	1008.7
57.5°	613.5	756.4	899.3	943.9	955.6	946.8	917.5	892.4	879.9	867.5	879.9
60°	560.7	689.0	817.3	860.3	875.0	867.6	838.3	811.8	793.4	775.1	793.4
62.5°	501.3	615.0	728.6	772.4	792.9	788.5	759.2	732.6	714.3	695.9	714.3
65°	404.0	503.0	601.9	645.9	671.6	669.7	640.4	613.9	595.5	577.2	595.5
67.5°	316.6	401.7	486.7	529.9	559.2	557.8	525.5	497.7	483.0	468.4	483.0
70°	263.9	337.2	410.5	450.8	480.1	480.1	450.8	425.1	410.5	395.8	410.5
72.5°	230.9	286.6	342.3	380.4	412.7	412.7	380.4	353.3	341.6	329.8	341.6
75°	173.2	206.1	239.1	274.9	311.5	315.2	285.9	262.0	254.7	247.4	254.7
77.5°	125.3	140.7	156.1	184.2	216.4	220.1	195.2	175.7	172.8	169.9	172.8
80°	98.9	102.6	106.3	129.2	158.5	162.2	140.2	123.7	123.7	123.7	123.7
82.5°	66.0	69.6	73.3	89.6	110.1	112.3	96.2	83.4	80.4	77.5	80.4
85°	33.0	33.0	33.0	38.5	45.8	45.8	38.5	33.0	33.0	33.0	33.0
87.5°	8.0	9.8	12.1	16.1	20.4	20.8	17.9	16.2	16.6	16.6	16.6
90°	6.8	15.9	27.3	36.4	43.3	45.5	45.5	47.8	50.1	50.1	50.1
92.5°	25.0	39.6	40.1	40.1	48.7	52.8	56.5	56.9	59.2	59.2	59.2
95°	70.6	77.4	116.1	113.8	77.4	61.5	52.4	52.4	52.4	52.4	52.4
97.5°	134.8	144.8	151.1	202.6	214.0	206.7	168.4	141.6	126.6	119.7	126.6
100°	191.2	195.8	209.4	211.7	268.6	323.2	295.9	261.8	250.4	243.6	250.4
102.5°	247.7	250.4	271.3	280.9	294.1	325.1	419.8	409.3	401.5	400.2	401.5
105°	332.3	334.6	373.3	391.5	400.6	400.6	398.4	443.9	516.7	532.7	516.7
107.5°	422.9	433.4	478.9	527.7	538.1	540.9	529.0	522.2	519.5	521.3	519.5
110°	484.9	500.8	555.4	616.9	632.8	637.4	632.8	626.0	621.4	621.4	621.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	545.0	568.2	630.1	700.7	727.5	741.2	731.2	726.1	721.6	725.2	721.6
115°	637.4	671.5	753.5	826.3	880.9	887.8	885.5	885.5	883.2	883.2	883.2
117.5°	723.0	777.6	869.6	954.2	1017.5	1035.7	1044.8	1042.1	1039.4	1043.9	1039.4
120°	783.1	846.8	951.5	1047.1	1108.6	1135.9	1145.0	1140.4	1145.0	1140.4	1145.0
122.5°	846.8	925.1	1028.0	1127.2	1199.6	1230.6	1241.5	1242.4	1243.3	1240.6	1243.3
125°	942.4	1038.0	1158.6	1261.1	1336.2	1372.6	1381.7	1384.0	1388.6	1399.9	1388.6
127.5°	1038.9	1147.3	1279.7	1378.5	1455.5	1499.6	1513.8	1518.8	1528.3	1533.3	1528.3
130°	1106.3	1229.2	1363.5	1456.8	1532.0	1579.8	1604.8	1611.6	1623.0	1620.7	1623.0
132.5°	1177.3	1305.7	1441.8	1538.8	1608.4	1659.9	1681.3	1700.9	1705.0	1708.2	1705.0
135°	1281.6	1420.4	1557.0	1652.6	1718.6	1768.7	1796.0	1814.2	1825.6	1832.4	1825.6
137.5°	1391.3	1537.9	1669.0	1754.1	1820.6	1863.9	1894.8	1913.9	1925.8	1931.2	1925.8
140°	1466.0	1607.1	1734.6	1823.3	1882.5	1925.8	1953.1	1975.8	1989.5	1989.5	1989.5
142.5°	1537.0	1676.3	1800.1	1888.9	1940.8	1980.4	2009.5	2026.8	2042.3	2042.3	2042.3
145°	1636.7	1775.5	1889.3	1978.1	2021.4	2057.8	2089.7	2103.3	2112.4	2112.4	2112.4
147.5°	1740.9	1863.9	1967.7	2052.8	2089.2	2132.0	2157.0	2168.0	2179.4	2174.3	2179.4
150°	1802.8	1916.7	2016.8	2096.5	2132.9	2173.9	2198.9	2208.0	2219.4	2212.6	2219.4
152.5°	1862.9	1971.3	2062.3	2136.6	2167.5	2208.5	2237.2	2246.3	2254.0	2249.0	2254.0
155°	1944.0	2039.6	2123.8	2192.1	2219.4	2258.1	2285.4	2296.8	2305.9	2294.5	2305.9
157.5°	2016.4	2098.8	2172.1	2234.9	2264.0	2297.3	2322.8	2336.9	2346.0	2341.0	2346.0
160°	2060.1	2135.2	2201.2	2260.4	2287.7	2317.3	2344.6	2360.5	2369.7	2362.8	2369.7
162.5°	2096.5	2164.3	2226.7	2280.4	2304.1	2330.0	2362.8	2376.9	2386.0	2377.4	2386.0
165°	2148.8	2203.5	2258.1	2303.6	2324.1	2344.6	2378.8	2394.7	2401.5	2392.4	2401.5
167.5°	2188.5	2230.3	2274.5	2313.7	2328.7	2348.7	2382.9	2396.1	2404.7	2393.3	2404.7
170°	2210.3	2246.7	2285.4	2317.3	2328.7	2346.9	2381.0	2392.4	2399.2	2387.9	2399.2
172.5°	2228.5	2255.8	2287.2	2315.5	2321.4	2336.0	2368.3	2379.7	2384.7	2375.1	2384.7
175°	2246.7	2262.7	2285.4	2303.6	2301.4	2310.5	2337.8	2346.9	2356.0	2342.3	2356.0
177.5°	2255.4	2262.7	2269.9	2280.9	2273.6	2273.6	2293.6	2299.1	2300.9	2293.6	2300.9
180°	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2147.2	2147.2	2147.2	2147.2	2147.2	2143.5	2128.9	2114.2	2114.2	2114.2	2103.2
5°	2178.7	2174.1	2170.5	2165.0	2157.7	2145.7	2120.1	2094.4	2083.4	2072.4	2025.7
7.5°	2192.7	2186.8	2180.2	2171.4	2160.4	2143.5	2109.1	2074.6	2025.5	1976.4	1872.4
10°	2186.1	2182.4	2178.7	2171.4	2160.4	2142.1	2101.8	2061.5	1962.5	1863.6	1764.6
12.5°	2179.5	2175.8	2172.1	2163.3	2149.4	2128.2	2084.9	2041.7	1901.7	1761.7	1672.3
15°	2161.3	2154.9	2147.6	2138.4	2127.4	2104.5	2045.9	1987.2	1829.7	1672.1	1596.9
17.5°	2128.2	2122.5	2115.9	2105.3	2090.6	2061.8	1990.7	1919.6	1754.7	1589.8	1541.4
20°	2094.4	2091.7	2088.0	2078.9	2064.2	2034.0	1957.0	1880.0	1715.1	1550.2	1528.2
22.5°	2055.6	2054.3	2053.6	2045.9	2031.2	1998.8	1913.0	1827.3	1665.3	1503.3	1504.0
25°	1989.1	1990.0	1993.7	1984.5	1962.5	1921.3	1822.3	1723.4	1580.4	1437.5	1462.3
27.5°	1918.0	1915.2	1911.6	1902.4	1887.7	1845.6	1721.0	1596.4	1483.5	1370.6	1411.7
30°	1871.8	1869.1	1865.4	1856.2	1841.6	1795.8	1656.5	1517.2	1421.9	1326.7	1374.3
32.5°	1819.0	1818.5	1817.7	1811.5	1799.8	1749.6	1583.9	1418.3	1349.4	1280.5	1330.3
35°	1739.0	1739.9	1739.9	1736.2	1728.9	1673.0	1471.4	1269.9	1240.5	1211.2	1269.9
37.5°	1648.2	1653.0	1658.1	1655.2	1644.2	1578.8	1350.1	1121.4	1131.0	1140.5	1211.6
40°	1582.3	1591.4	1602.4	1602.4	1591.4	1520.9	1271.7	1022.5	1055.5	1088.4	1165.4
42.5°	1516.3	1527.7	1541.6	1543.1	1532.1	1462.3	1216.0	969.7	1005.6	1041.5	1121.4
45°	1416.4	1429.3	1443.9	1445.8	1434.8	1371.6	1151.7	931.8	953.8	975.8	1052.7
47.5°	1299.4	1317.7	1339.7	1341.5	1323.2	1261.1	1067.6	874.1	890.2	906.3	985.1
50°	1226.8	1245.1	1267.1	1268.9	1250.6	1189.2	998.7	808.1	830.1	852.1	934.5
52.5°	1141.0	1161.6	1186.5	1191.2	1175.9	1119.6	940.8	761.9	775.1	788.3	877.4
55°	1019.7	1041.7	1067.4	1074.7	1063.7	1017.9	867.6	717.4	706.4	695.4	786.1
57.5°	892.4	917.5	946.8	955.6	943.9	899.3	756.4	613.5	604.0	594.4	692.6
60°	811.8	838.3	867.6	875.0	860.3	817.3	689.0	560.7	542.4	524.1	626.7
62.5°	732.6	759.2	788.5	792.9	772.4	728.6	615.0	501.3	488.9	476.4	576.1
65°	613.9	640.4	669.7	671.6	645.9	601.9	503.0	404.0	411.4	418.7	508.5
67.5°	497.7	525.5	557.8	559.2	529.9	486.7	401.7	316.6	340.8	365.0	445.8
70°	425.1	450.8	480.1	480.1	450.8	410.5	337.2	263.9	296.8	329.8	404.0
72.5°	353.3	380.4	412.7	412.7	380.4	342.3	286.6	230.9	263.9	296.8	357.9
75°	262.0	285.9	315.2	311.5	274.9	239.1	206.1	173.2	206.1	239.1	285.9
77.5°	175.7	195.2	220.1	216.4	184.2	156.1	140.7	125.3	152.5	179.6	212.2
80°	123.7	140.2	162.2	158.5	129.2	106.3	102.6	98.9	117.3	135.6	159.4
82.5°	83.4	96.2	112.3	110.1	89.6	73.3	69.6	66.0	81.4	96.8	113.2
85°	33.0	38.5	45.8	45.8	38.5	33.0	33.0	33.0	40.3	47.6	55.0
87.5°	16.2	17.9	20.8	20.4	16.1	12.1	9.8	8.0	12.7	17.5	21.4
90°	47.8	45.5	45.5	43.3	36.4	27.3	15.9	6.8	15.9	25.0	41.0
92.5°	56.9	56.5	52.8	48.7	40.1	40.1	39.6	25.0	43.3	61.5	88.3
95°	52.4	52.4	61.5	77.4	113.8	116.1	77.4	70.6	100.2	141.1	177.6
97.5°	141.6	168.4	206.7	214.0	202.6	151.1	144.8	134.8	183.5	224.0	282.7
100°	261.8	295.9	323.2	268.6	211.7	209.4	195.8	191.2	243.6	282.3	339.2
102.5°	409.3	419.8	325.1	294.1	280.9	271.3	250.4	247.7	300.0	353.3	401.1
105°	443.9	398.4	400.6	400.6	391.5	373.3	334.6	332.3	391.5	453.0	512.2
107.5°	522.2	529.0	540.9	538.1	527.7	478.9	433.4	422.9	476.2	550.0	615.1
110°	626.0	632.8	637.4	632.8	616.9	555.4	500.8	484.9	532.7	610.1	680.6



TEST NUMBER: P1435878

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	726.1	731.2	741.2	727.5	700.7	630.1	568.2	545.0	592.8	672.0	744.4
115°	885.5	885.5	887.8	880.9	826.3	753.5	671.5	637.4	678.3	751.2	830.9
117.5°	1042.1	1044.8	1035.7	1017.5	954.2	869.6	777.6	723.0	755.3	832.2	914.2
120°	1140.4	1145.0	1135.9	1108.6	1047.1	951.5	846.8	783.1	808.1	883.2	965.2
122.5°	1242.4	1241.5	1230.6	1199.6	1127.2	1028.0	925.1	846.8	857.3	926.9	1007.0
125°	1384.0	1381.7	1372.6	1336.2	1261.1	1158.6	1038.0	942.4	928.7	987.9	1069.9
127.5°	1518.8	1513.8	1499.6	1455.5	1378.5	1279.7	1147.3	1038.9	1008.4	1045.7	1120.9
130°	1611.6	1604.8	1579.8	1532.0	1456.8	1363.5	1229.2	1106.3	1063.0	1085.8	1151.8
132.5°	1700.9	1681.3	1659.9	1608.4	1538.8	1441.8	1305.7	1177.3	1117.7	1127.7	1179.1
135°	1814.2	1796.0	1768.7	1718.6	1652.6	1557.0	1420.4	1281.6	1199.6	1190.5	1220.1
137.5°	1913.9	1894.8	1863.9	1820.6	1754.1	1669.0	1537.9	1391.3	1287.9	1257.4	1268.8
140°	1975.8	1953.1	1925.8	1882.5	1823.3	1734.6	1607.1	1466.0	1349.9	1306.6	1299.8
142.5°	2026.8	2009.5	1980.4	1940.8	1888.9	1800.1	1676.3	1537.0	1413.6	1357.6	1341.7
145°	2103.3	2089.7	2057.8	2021.4	1978.1	1889.3	1775.5	1636.7	1513.8	1440.9	1406.8
147.5°	2168.0	2157.0	2132.0	2089.2	2052.8	1967.7	1863.9	1740.9	1614.8	1524.7	1480.5
150°	2208.0	2198.9	2173.9	2132.9	2096.5	2016.8	1916.7	1802.8	1682.2	1586.6	1529.7
152.5°	2246.3	2237.2	2208.5	2167.5	2136.6	2062.3	1971.3	1862.9	1740.5	1644.9	1586.1
155°	2296.8	2285.4	2258.1	2219.4	2192.1	2123.8	2039.6	1944.0	1839.3	1739.1	1673.1
157.5°	2336.9	2322.8	2297.3	2264.0	2234.9	2172.1	2098.8	2016.4	1924.9	1829.3	1761.9
160°	2360.5	2344.6	2317.3	2287.7	2260.4	2201.2	2135.2	2060.1	1975.8	1889.3	1816.5
162.5°	2376.9	2362.8	2330.0	2304.1	2280.4	2226.7	2164.3	2096.5	2021.4	1945.8	1878.4
165°	2394.7	2378.8	2344.6	2324.1	2303.6	2258.1	2203.5	2148.8	2085.1	2023.7	1969.0
167.5°	2396.1	2382.9	2348.7	2328.7	2313.7	2274.5	2230.3	2188.5	2138.8	2090.6	2045.0
170°	2392.4	2381.0	2346.9	2328.7	2317.3	2285.4	2246.7	2210.3	2171.6	2130.6	2094.2
172.5°	2379.7	2368.3	2336.0	2321.4	2315.5	2287.2	2255.8	2228.5	2195.3	2165.2	2136.1
175°	2346.9	2337.8	2310.5	2301.4	2303.6	2285.4	2262.7	2246.7	2226.2	2208.0	2192.1
177.5°	2299.1	2293.6	2273.6	2273.6	2280.9	2269.9	2262.7	2255.4	2246.3	2240.8	2235.3
180°	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6



TEST NUMBER: P1435878

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2088.6	2076.8	2068.1	2060.7	2057.8	2054.9	2057.8	2060.7	2068.1	2076.8	2088.6
5°	1967.1	1904.8	1838.8	1784.8	1766.4	1748.1	1766.4	1784.8	1838.8	1904.8	1967.1
7.5°	1749.9	1674.8	1647.0	1624.6	1618.7	1612.9	1618.7	1624.6	1647.0	1674.8	1749.9
10°	1665.7	1605.2	1583.2	1566.7	1566.7	1566.7	1566.7	1566.7	1583.2	1605.2	1665.7
12.5°	1599.7	1562.7	1561.2	1563.8	1578.4	1593.1	1578.4	1563.8	1561.2	1562.7	1599.7
15°	1549.3	1554.8	1613.4	1662.0	1680.3	1698.6	1680.3	1662.0	1613.4	1554.8	1549.3
17.5°	1531.9	1563.4	1636.0	1694.1	1708.7	1723.4	1708.7	1694.1	1636.0	1563.4	1531.9
20°	1553.9	1594.2	1649.2	1694.1	1708.7	1723.4	1708.7	1694.1	1649.2	1594.2	1553.9
22.5°	1559.0	1608.1	1651.4	1687.5	1702.1	1716.8	1702.1	1687.5	1651.4	1608.1	1559.0
25°	1542.9	1601.5	1638.2	1667.5	1674.8	1682.1	1674.8	1667.5	1638.2	1601.5	1542.9
27.5°	1504.0	1568.5	1605.2	1634.0	1639.1	1644.2	1639.1	1634.0	1605.2	1568.5	1504.0
30°	1469.6	1535.6	1572.2	1602.4	1613.4	1624.4	1613.4	1602.4	1572.2	1535.6	1469.6
32.5°	1419.7	1487.2	1532.6	1567.3	1569.5	1571.7	1569.5	1567.3	1532.6	1487.2	1419.7
35°	1357.8	1427.4	1478.8	1516.3	1512.7	1509.0	1512.7	1516.3	1478.8	1427.4	1357.8
37.5°	1303.2	1371.4	1416.1	1450.7	1455.1	1459.5	1455.1	1450.7	1416.1	1371.4	1303.2
40°	1257.0	1326.7	1374.3	1411.9	1419.2	1426.5	1419.2	1411.9	1374.3	1326.7	1257.0
42.5°	1216.0	1287.1	1334.7	1372.3	1379.6	1386.9	1379.6	1372.3	1334.7	1287.1	1216.0
45°	1148.0	1221.3	1272.6	1312.0	1315.7	1319.3	1315.7	1312.0	1272.6	1221.3	1148.0
47.5°	1084.8	1158.4	1206.1	1242.7	1246.4	1250.1	1246.4	1242.7	1206.1	1158.4	1084.8
50°	1037.1	1112.3	1159.9	1196.6	1200.2	1203.9	1200.2	1196.6	1159.9	1112.3	1037.1
52.5°	991.7	1069.8	1111.5	1143.8	1147.5	1151.1	1147.5	1143.8	1111.5	1069.8	991.7
55°	910.7	993.2	1033.5	1063.7	1063.7	1063.7	1063.7	1063.7	1033.5	993.2	910.7
57.5°	826.8	911.4	946.6	974.1	978.5	982.9	978.5	974.1	946.6	911.4	826.8
60°	769.6	855.7	885.1	908.9	916.2	923.5	916.2	908.9	885.1	855.7	769.6
62.5°	713.2	796.4	825.7	848.8	853.2	857.6	853.2	848.8	825.7	796.4	713.2
65°	625.8	699.1	728.4	751.3	755.0	758.6	755.0	751.3	728.4	699.1	625.8
67.5°	545.5	605.6	626.1	642.3	645.2	648.1	645.2	642.3	626.1	605.6	545.5
70°	492.0	543.3	558.0	569.0	569.0	569.0	569.0	569.0	558.0	543.3	492.0
72.5°	428.2	470.7	485.4	497.1	500.1	503.0	500.1	497.1	485.4	470.7	428.2
75°	337.2	368.3	379.3	388.5	392.1	395.8	392.1	388.5	379.3	368.3	337.2
77.5°	246.6	267.2	273.8	279.6	283.3	287.0	283.3	279.6	273.8	267.2	246.6
80°	185.1	199.7	203.4	207.1	210.7	214.4	210.7	207.1	203.4	199.7	185.1
82.5°	130.1	140.4	144.0	147.0	147.7	148.4	147.7	147.0	144.0	140.4	130.1
85°	62.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	62.3
87.5°	23.7	26.9	30.0	31.9	33.7	32.8	33.7	31.9	30.0	26.9	23.7
90°	52.4	68.3	84.2	93.3	102.4	97.9	102.4	93.3	84.2	68.3	52.4
92.5°	105.2	132.0	151.6	168.0	175.3	174.4	175.3	168.0	151.6	132.0	105.2
95°	211.7	243.6	275.4	298.2	311.9	307.3	311.9	298.2	275.4	243.6	211.7
97.5°	326.4	369.2	404.7	426.1	439.8	448.9	439.8	426.1	404.7	369.2	326.4
100°	402.9	443.9	484.9	509.9	532.7	541.8	532.7	509.9	484.9	443.9	402.9
102.5°	464.8	518.5	563.2	590.0	609.1	618.2	609.1	590.0	563.2	518.5	464.8
105°	566.8	623.7	671.5	705.7	726.1	733.0	726.1	705.7	671.5	623.7	566.8
107.5°	668.8	727.5	771.7	809.5	834.5	849.1	834.5	809.5	771.7	727.5	668.8
110°	748.9	796.7	844.5	878.7	903.7	912.8	903.7	878.7	844.5	796.7	748.9



TEST NUMBER: P1435878

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	816.3	869.6	917.4	951.5	980.2	992.9	980.2	951.5	917.4	869.6	816.3
115°	910.5	981.1	1024.3	1056.2	1076.7	1088.1	1076.7	1056.2	1024.3	981.1	910.5
117.5°	988.8	1062.6	1109.9	1134.5	1144.1	1152.3	1144.1	1134.5	1109.9	1062.6	988.8
120°	1038.0	1106.3	1160.9	1192.8	1204.2	1208.7	1204.2	1192.8	1160.9	1106.3	1038.0
122.5°	1083.5	1148.2	1201.0	1240.1	1258.8	1263.4	1258.8	1240.1	1201.0	1148.2	1083.5
125°	1147.3	1208.7	1263.4	1302.1	1322.5	1333.9	1322.5	1302.1	1263.4	1208.7	1147.3
127.5°	1202.8	1269.3	1319.4	1354.4	1374.4	1383.5	1374.4	1354.4	1319.4	1269.3	1202.8
130°	1233.8	1302.1	1352.1	1390.8	1409.0	1418.1	1409.0	1390.8	1352.1	1302.1	1233.8
132.5°	1257.4	1329.4	1381.3	1416.3	1436.4	1445.5	1436.4	1416.3	1381.3	1329.4	1257.4
135°	1286.1	1361.2	1415.9	1450.0	1468.2	1477.3	1468.2	1450.0	1415.9	1361.2	1286.1
137.5°	1311.2	1379.5	1436.4	1472.3	1488.7	1494.6	1488.7	1472.3	1436.4	1379.5	1311.2
140°	1329.4	1388.6	1445.5	1479.6	1497.8	1500.1	1497.8	1479.6	1445.5	1388.6	1329.4
142.5°	1353.0	1399.5	1449.1	1483.3	1501.5	1505.6	1501.5	1483.3	1449.1	1399.5	1353.0
145°	1395.4	1422.7	1456.8	1488.7	1504.6	1509.2	1504.6	1488.7	1456.8	1422.7	1395.4
147.5°	1448.7	1457.3	1475.1	1496.0	1511.5	1514.7	1511.5	1496.0	1475.1	1457.3	1448.7
150°	1488.7	1486.4	1493.3	1506.9	1520.6	1518.3	1520.6	1506.9	1493.3	1486.4	1488.7
152.5°	1534.2	1521.0	1520.6	1527.0	1533.3	1532.9	1533.3	1527.0	1520.6	1521.0	1534.2
155°	1611.6	1586.6	1572.9	1568.4	1568.4	1566.1	1568.4	1568.4	1572.9	1586.6	1611.6
157.5°	1696.8	1661.7	1641.2	1630.3	1627.1	1622.1	1627.1	1630.3	1641.2	1661.7	1696.8
160°	1755.0	1716.3	1695.9	1677.6	1670.8	1664.0	1670.8	1677.6	1695.9	1716.3	1755.0
162.5°	1809.7	1772.8	1750.5	1734.1	1727.3	1716.8	1727.3	1734.1	1750.5	1772.8	1809.7
165°	1898.5	1859.8	1834.7	1821.1	1812.0	1802.8	1812.0	1821.1	1834.7	1859.8	1898.5
167.5°	1987.2	1944.9	1928.5	1913.0	1904.4	1888.0	1904.4	1913.0	1928.5	1944.9	1987.2
170°	2041.9	2003.2	1994.1	1980.4	1964.5	1946.3	1964.5	1980.4	1994.1	2003.2	2041.9
172.5°	2089.2	2063.3	2054.2	2040.5	2035.5	2020.9	2035.5	2040.5	2054.2	2063.3	2089.2
175°	2158.0	2137.5	2137.5	2135.2	2128.4	2114.7	2128.4	2135.2	2137.5	2137.5	2158.0
177.5°	2215.3	2204.4	2211.7	2211.7	2209.9	2197.1	2209.9	2211.7	2211.7	2204.4	2215.3
180°	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6



TEST NUMBER: P1435878

CATALOG NUMBER: SQ2W-FA-K-150U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2127.4	2127.4	2127.4	2127.4
2.5°	2103.2	2114.2	2114.2	2114.2
5°	2025.7	2072.4	2083.4	2094.4
7.5°	1872.4	1976.4	2025.5	2074.6
10°	1764.6	1863.6	1962.5	2061.5
12.5°	1672.3	1761.7	1901.7	2041.7
15°	1596.9	1672.1	1829.7	1987.2
17.5°	1541.4	1589.8	1754.7	1919.6
20°	1528.2	1550.2	1715.1	1880.0
22.5°	1504.0	1503.3	1665.3	1827.3
25°	1462.3	1437.5	1580.4	1723.4
27.5°	1411.7	1370.6	1483.5	1596.4
30°	1374.3	1326.7	1421.9	1517.2
32.5°	1330.3	1280.5	1349.4	1418.3
35°	1269.9	1211.2	1240.5	1269.9
37.5°	1211.6	1140.5	1131.0	1121.4
40°	1165.4	1088.4	1055.5	1022.5
42.5°	1121.4	1041.5	1005.6	969.7
45°	1052.7	975.8	953.8	931.8
47.5°	985.1	906.3	890.2	874.1
50°	934.5	852.1	830.1	808.1
52.5°	877.4	788.3	775.1	761.9
55°	786.1	695.4	706.4	717.4
57.5°	692.6	594.4	604.0	613.5
60°	626.7	524.1	542.4	560.7
62.5°	576.1	476.4	488.9	501.3
65°	508.5	418.7	411.4	404.0
67.5°	445.8	365.0	340.8	316.6
70°	404.0	329.8	296.8	263.9
72.5°	357.9	296.8	263.9	230.9
75°	285.9	239.1	206.1	173.2
77.5°	212.2	179.6	152.5	125.3
80°	159.4	135.6	117.3	98.9
82.5°	113.2	96.8	81.4	66.0
85°	55.0	47.6	40.3	33.0
87.5°	21.4	17.5	12.7	8.0
90°	41.0	25.0	15.9	6.8
92.5°	88.3	61.5	43.3	25.0
95°	177.6	141.1	100.2	70.6
97.5°	282.7	224.0	183.5	134.8
100°	339.2	282.3	243.6	191.2
102.5°	401.1	353.3	300.0	247.7
105°	512.2	453.0	391.5	332.3
107.5°	615.1	550.0	476.2	422.9
110°	680.6	610.1	532.7	484.9



TEST NUMBER: P1435878

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	744.4	672.0	592.8	545.0
115°	830.9	751.2	678.3	637.4
117.5°	914.2	832.2	755.3	723.0
120°	965.2	883.2	808.1	783.1
122.5°	1007.0	926.9	857.3	846.8
125°	1069.9	987.9	928.7	942.4
127.5°	1120.9	1045.7	1008.4	1038.9
130°	1151.8	1085.8	1063.0	1106.3
132.5°	1179.1	1127.7	1117.7	1177.3
135°	1220.1	1190.5	1199.6	1281.6
137.5°	1268.8	1257.4	1287.9	1391.3
140°	1299.8	1306.6	1349.9	1466.0
142.5°	1341.7	1357.6	1413.6	1537.0
145°	1406.8	1440.9	1513.8	1636.7
147.5°	1480.5	1524.7	1614.8	1740.9
150°	1529.7	1586.6	1682.2	1802.8
152.5°	1586.1	1644.9	1740.5	1862.9
155°	1673.1	1739.1	1839.3	1944.0
157.5°	1761.9	1829.3	1924.9	2016.4
160°	1816.5	1889.3	1975.8	2060.1
162.5°	1878.4	1945.8	2021.4	2096.5
165°	1969.0	2023.7	2085.1	2148.8
167.5°	2045.0	2090.6	2138.8	2188.5
170°	2094.2	2130.6	2171.6	2210.3
172.5°	2136.1	2165.2	2195.3	2228.5
175°	2192.1	2208.0	2226.2	2246.7
177.5°	2235.3	2240.8	2246.3	2255.4
180°	2253.6	2253.6	2253.6	2253.6



TEST NUMBER: P1435878  
 CATALOG NUMBER: SQ2W-FA-K-150U-125D-L835-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	18.14	18.95	19.14	19.97	21.31	19.34	20.15	20.34	21.17	22.51
	3H	19.23	19.95	20.24	20.98	22.34	20.58	21.31	21.59	22.33	23.70
	4H	19.57	20.26	20.60	21.29	22.66	20.97	21.66	21.99	22.68	24.06
	6H	19.73	20.37	20.77	21.40	22.79	21.12	21.76	22.16	22.79	24.18
	8H	19.77	20.37	20.81	21.42	22.80	21.15	21.75	22.19	22.80	24.18
	12H	19.76	20.34	20.81	21.38	22.78	21.13	21.71	22.18	22.74	24.15
4H	2H	19.00	19.69	20.03	20.72	22.09	19.92	20.61	20.95	21.63	23.01
	3H	20.39	20.96	21.43	22.01	23.40	21.38	21.95	22.42	23.00	24.39
	4H	20.84	21.37	21.89	22.41	23.82	21.85	22.38	22.90	23.42	24.83
	6H	21.07	21.52	22.12	22.59	23.99	22.07	22.52	23.13	23.59	25.00
	8H	21.12	21.54	22.18	22.60	24.03	22.12	22.54	23.17	23.60	25.02
	12H	21.12	21.50	22.20	22.58	24.00	22.10	22.48	23.18	23.56	24.99
8H	4H	21.22	21.64	22.28	22.70	24.12	22.04	22.46	23.10	23.52	24.95
	6H	21.57	21.92	22.65	23.02	24.44	22.35	22.70	23.44	23.80	25.22
	8H	21.68	21.99	22.77	23.08	24.51	22.45	22.75	23.54	23.84	25.28
	12H	21.72	21.99	22.81	23.07	24.55	22.46	22.73	23.55	23.81	25.29
12H	4H	21.22	21.60	22.30	22.68	24.10	22.01	22.39	23.08	23.46	24.89
	6H	21.64	21.94	22.73	23.03	24.47	22.37	22.68	23.46	23.76	25.20
	8H	21.78	22.05	22.87	23.13	24.61	22.48	22.75	23.58	23.83	25.31