

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: P1427984

Luminaire Tested: SQ2W-PH1-K-150U-125D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427984  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PH1-K-150U-125D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

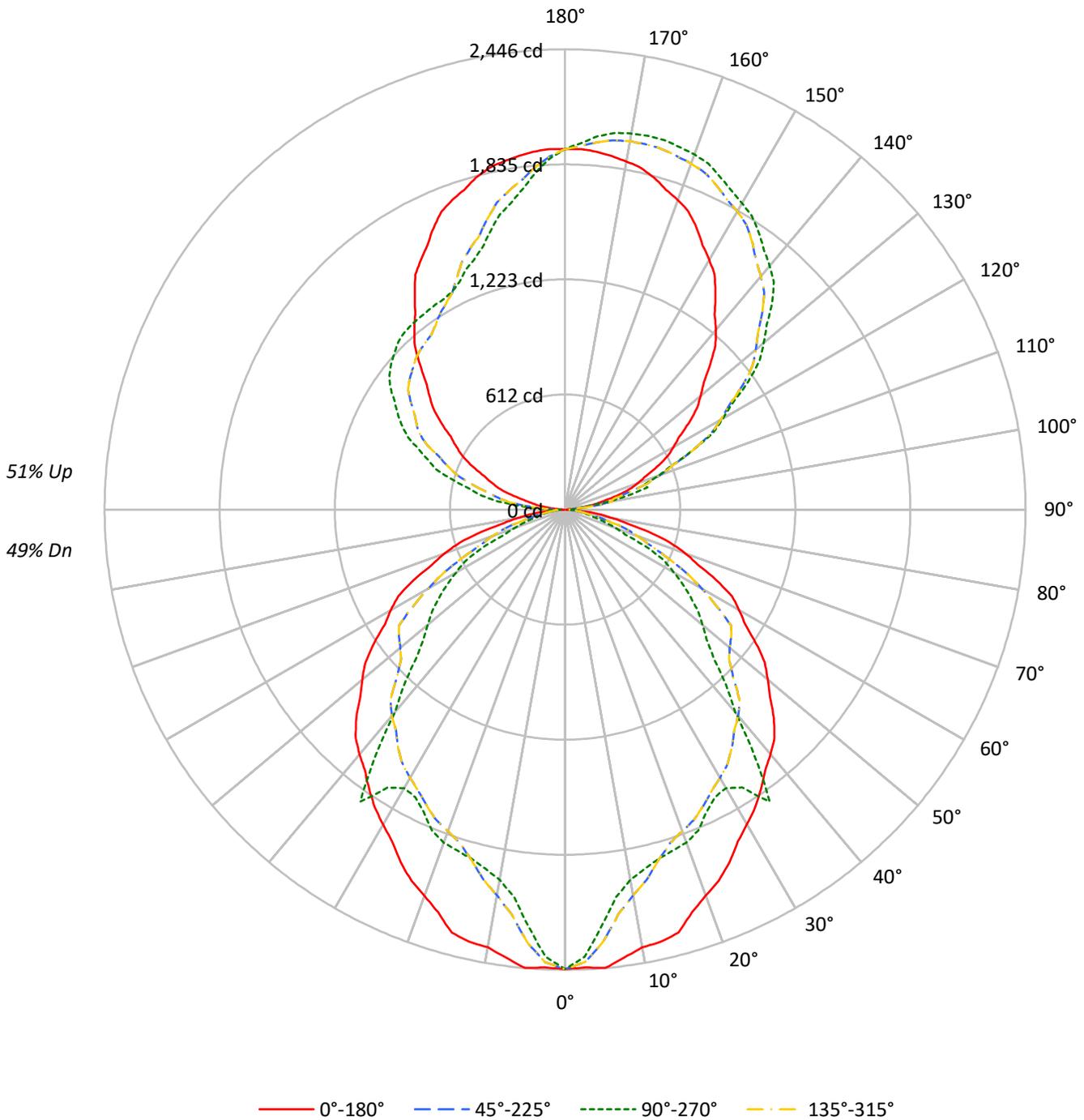
Lumens per Lamp: N/A  
Luminaire Lumens: 10998.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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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### 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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47				42	
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	44	42	40				35	
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34				30	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29				26	
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26				22	
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20				18	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18				16	
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

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

	0°	90°	180°	270°
0°	39416	39416	39416	39416
5°	39641	36027	39641	36027
10°	38729	32750	38729	32750
15°	38903	32110	38903	32110
20°	37515	32367	37515	32367
25°	36828	31614	36828	31614
30°	36030	31873	36030	31873
35°	35756	37358	35756	37358
40°	35788	29619	35788	29619
45°	35800	25512	35800	25512
50°	35298	23920	35298	23920
55°	34848	22950	34848	22950
60°	34503	21525	34503	21525
65°	33898	18724	33898	18724
70°	32020	13378	32020	13378
75°	28546	10143	28546	10143
80°	23328	9502	23328	9502
85°	14635	6447	14635	6447

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 35800 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.8	2.0
10°-20°	565.0	5.1
20°-30°	828.4	7.5
30°-40°	1003.1	9.1
40°-50°	986.4	9.0
50°-60°	858.0	7.8
60°-70°	596.7	5.4
70°-80°	283.0	2.6
80°-90°	70.3	0.6
90°-100°	152.4	1.4
100°-110°	444.5	4.0
110°-120°	725.4	6.6
120°-130°	920.5	8.4
130°-140°	985.0	9.0
140°-150°	919.8	8.4
150°-160°	756.8	6.9
160°-170°	507.6	4.6
170°-180°	180.2	1.6
0°-30°	1608.2	14.6
0°-40°	2611.3	23.7
0°-60°	4455.7	40.5
0°-90°	5405.7	49.2
90°-120°	1322.4	12.0
90°-150°	4147.7	37.7
90°-180°	5592.0	50.8
0°-180°	10998.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2441	2441	2441	2441	2441	
5°	2446	2223	2446	2223	2446	230
15°	2327	1921	2327	1921	2327	649
25°	2067	1775	2067	1775	2067	951
35°	1814	1895	1814	1895	1814	1136
45°	1568	1117	1568	1117	1568	1205
55°	1238	815	1238	815	1238	1106
65°	887	490	887	490	887	872
75°	458	163	458	163	458	485
85°	79	35	79	35	79	106
90°	6	43	6	83	6	7
95°	60	44	60	261	60	72
105°	282	453	282	623	282	300
115°	542	751	542	925	542	534
125°	801	1190	801	1134	801	717
135°	1089	1557	1089	1256	1089	842
145°	1391	1795	1391	1283	1391	870
155°	1652	1950	1652	1331	1652	759
165°	1826	2033	1826	1532	1826	514
175°	1910	1991	1910	1797	1910	181
180°	1915	1915	1915	1915	1915	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2435.7	2447.2	2458.8	2442.5	2416.9	2399.1	2389.2	2381.4	2379.7	2378.1	2379.7
5°	2445.9	2444.9	2443.8	2395.6	2331.6	2283.6	2251.6	2227.0	2225.0	2222.9	2225.0
7.5°	2401.3	2369.3	2337.3	2272.5	2196.7	2141.2	2105.8	2079.0	2077.3	2075.6	2077.3
10°	2362.3	2313.8	2265.2	2191.9	2110.4	2053.6	2021.6	1997.6	1997.6	1997.6	1997.6
12.5°	2353.0	2276.4	2199.8	2119.5	2037.9	1985.3	1961.5	1945.0	1949.9	1954.9	1949.9
15°	2327.4	2211.8	2096.2	2014.6	1944.4	1906.2	1900.0	1898.2	1909.6	1921.0	1909.6
17.5°	2242.9	2118.4	1993.9	1922.2	1868.1	1847.7	1860.9	1874.1	1887.3	1900.5	1887.3
20°	2183.4	2060.6	1937.7	1871.4	1823.9	1812.6	1837.3	1859.0	1871.4	1883.8	1871.4
22.5°	2133.3	2008.8	1884.3	1825.6	1788.8	1784.1	1811.3	1833.4	1840.0	1846.6	1840.0
25°	2067.3	1926.9	1786.5	1743.6	1733.3	1740.0	1763.8	1780.8	1777.7	1774.6	1777.7
27.5°	1988.3	1841.7	1695.1	1667.6	1679.8	1693.1	1707.6	1718.9	1720.7	1722.6	1720.7
30°	1932.6	1786.0	1639.4	1617.4	1637.1	1654.1	1668.5	1682.7	1696.2	1709.6	1696.2
32.5°	1878.7	1727.1	1575.6	1559.8	1589.4	1621.3	1655.5	1688.9	1719.7	1750.5	1719.7
35°	1814.1	1656.2	1498.2	1485.8	1521.9	1568.4	1625.2	1693.1	1794.2	1895.4	1794.2
37.5°	1746.3	1577.0	1407.7	1402.0	1451.0	1499.9	1548.8	1593.6	1625.8	1658.0	1625.8
40°	1698.0	1520.4	1342.8	1342.6	1401.4	1462.3	1525.3	1553.9	1479.6	1405.3	1479.6
42.5°	1645.9	1468.4	1290.8	1285.6	1337.8	1404.9	1486.9	1517.0	1391.5	1265.9	1391.5
45°	1567.9	1383.1	1198.3	1191.6	1244.2	1281.4	1303.1	1296.9	1207.1	1117.3	1207.1
47.5°	1475.9	1299.8	1123.7	1122.2	1179.0	1183.1	1134.6	1089.4	1054.3	1019.2	1054.3
50°	1405.3	1239.1	1072.9	1080.1	1145.1	1138.9	1061.5	997.8	975.1	952.3	975.1
52.5°	1336.5	1178.6	1020.6	1039.8	1118.1	1105.7	1002.7	921.6	906.3	891.0	906.3
55°	1238.0	1086.3	934.5	977.9	1086.3	1069.8	928.3	821.5	818.4	815.3	818.4
57.5°	1133.5	990.0	846.5	876.6	964.6	947.2	824.6	734.0	739.3	744.7	739.3
60°	1068.5	929.1	789.8	793.6	845.2	828.7	744.1	679.0	672.8	666.6	672.8
62.5°	999.7	867.0	734.2	715.0	733.5	714.1	656.7	612.1	605.9	599.7	605.9
65°	887.3	766.5	645.7	609.3	601.1	573.2	525.7	490.1	490.1	490.1	490.1
67.5°	763.7	658.4	553.1	512.4	493.2	465.5	429.4	396.1	371.3	346.6	371.3
70°	678.3	585.3	492.4	449.8	424.0	391.0	350.7	316.4	299.9	283.4	299.9
72.5°	587.2	507.5	427.8	384.2	352.6	320.4	287.6	258.2	239.2	220.2	239.2
75°	457.6	393.6	329.6	287.3	252.2	219.6	189.7	166.7	164.7	162.6	164.7
77.5°	330.8	284.1	237.4	203.2	173.0	150.4	135.3	124.1	124.3	124.5	124.3
80°	250.9	215.8	180.7	148.7	117.7	101.7	100.7	100.1	101.2	102.2	101.2
82.5°	176.5	150.5	124.5	104.1	85.5	76.9	78.4	79.5	79.7	79.9	79.7
85°	79.0	66.6	54.2	49.6	47.5	44.4	40.3	36.9	35.9	34.8	35.9
87.5°	17.9	18.6	19.7	19.2	17.9	17.0	17.0	17.4	17.8	17.8	17.8
90°	5.8	13.5	23.2	31.0	36.8	38.7	38.7	40.6	42.6	42.6	42.6
92.5°	21.3	33.7	34.0	34.0	41.4	44.9	48.0	48.4	50.3	50.3	50.3
95°	60.0	65.8	98.7	96.7	65.8	52.2	44.5	44.5	44.5	44.5	44.5
97.5°	114.5	123.0	128.5	172.2	181.9	175.7	143.2	120.3	107.6	101.8	107.6
100°	162.5	166.4	178.0	179.9	228.3	274.7	251.5	222.5	212.8	207.0	212.8
102.5°	210.5	212.8	230.6	238.7	250.0	276.3	356.7	347.8	341.3	340.1	341.3
105°	282.5	284.4	317.3	332.8	340.5	340.5	338.6	377.3	439.2	452.7	439.2
107.5°	359.5	368.4	407.0	448.4	457.3	459.7	449.6	443.8	441.5	443.0	441.5
110°	412.1	425.6	472.1	524.3	537.8	541.7	537.8	532.0	528.2	528.2	528.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	463.2	482.9	535.5	595.5	618.3	629.9	621.4	617.2	613.3	616.4	613.3
115°	541.7	570.7	640.4	702.3	748.7	754.5	752.6	752.6	750.6	750.6	750.6
117.5°	614.4	660.9	739.0	811.0	864.8	880.3	888.0	885.7	883.4	887.2	883.4
120°	665.5	719.7	808.7	889.9	942.2	965.4	973.1	969.3	973.1	969.3	973.1
122.5°	719.7	786.2	873.7	958.0	1019.6	1045.9	1055.2	1055.9	1056.7	1054.4	1056.7
125°	800.9	882.2	984.7	1071.8	1135.6	1166.6	1174.3	1176.3	1180.1	1189.8	1180.1
127.5°	883.0	975.1	1087.7	1171.6	1237.0	1274.5	1286.5	1290.8	1298.9	1303.2	1298.9
130°	940.2	1044.7	1158.8	1238.2	1302.0	1342.6	1363.9	1369.7	1379.4	1377.5	1379.4
132.5°	1000.6	1109.7	1225.4	1307.8	1367.0	1410.7	1428.9	1445.6	1449.0	1451.8	1449.0
135°	1089.2	1207.2	1323.3	1404.5	1460.7	1503.2	1526.4	1541.9	1551.6	1557.4	1551.6
137.5°	1182.5	1307.0	1418.5	1490.8	1547.3	1584.1	1610.4	1626.6	1636.7	1641.3	1636.7
140°	1245.9	1365.9	1474.2	1549.6	1599.9	1636.7	1659.9	1679.3	1690.9	1690.9	1690.9
142.5°	1306.3	1424.7	1529.9	1605.4	1649.5	1683.1	1707.9	1722.6	1735.8	1735.8	1735.8
145°	1391.0	1509.0	1605.8	1681.2	1718.0	1748.9	1776.0	1787.6	1795.3	1795.3	1795.3
147.5°	1479.6	1584.1	1672.3	1744.7	1775.6	1812.0	1833.3	1842.6	1852.2	1848.0	1852.2
150°	1532.2	1629.0	1714.1	1781.8	1812.8	1847.6	1868.9	1876.6	1886.3	1880.5	1886.3
152.5°	1583.3	1675.4	1752.8	1815.9	1842.2	1877.0	1901.4	1909.1	1915.7	1911.4	1915.7
155°	1652.2	1733.4	1805.0	1863.1	1886.3	1919.2	1942.4	1952.1	1959.8	1950.1	1959.8
157.5°	1713.7	1783.7	1846.0	1899.4	1924.2	1952.4	1974.1	1986.1	1993.8	1989.6	1993.8
160°	1750.8	1814.7	1870.8	1921.1	1944.3	1969.5	1992.7	2006.2	2014.0	2008.2	2014.0
162.5°	1781.8	1839.5	1892.5	1938.1	1958.2	1980.3	2008.2	2020.2	2027.9	2020.5	2027.9
165°	1826.3	1872.7	1919.2	1957.9	1975.3	1992.7	2021.7	2035.2	2041.0	2033.3	2041.0
167.5°	1860.0	1895.6	1933.1	1966.4	1979.1	1996.2	2025.2	2036.4	2043.8	2034.1	2043.8
170°	1878.5	1909.5	1942.4	1969.5	1979.1	1994.6	2023.6	2033.3	2039.1	2029.4	2039.1
172.5°	1894.0	1917.2	1943.9	1967.9	1972.9	1985.3	2012.8	2022.5	2026.7	2018.6	2026.7
175°	1909.5	1923.0	1942.4	1957.9	1955.9	1963.7	1986.9	1994.6	2002.4	1990.7	2002.4
177.5°	1916.8	1923.0	1929.2	1938.5	1932.3	1932.3	1949.3	1954.0	1955.5	1949.3	1955.5
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2381.4	2389.2	2399.1	2416.9	2442.5	2458.8	2447.2	2435.7	2447.2	2458.8	2442.5
5°	2227.0	2251.6	2283.6	2331.6	2395.6	2443.8	2444.9	2445.9	2444.9	2443.8	2395.6
7.5°	2079.0	2105.8	2141.2	2196.7	2272.5	2337.3	2369.3	2401.3	2369.3	2337.3	2272.5
10°	1997.6	2021.6	2053.6	2110.4	2191.9	2265.2	2313.8	2362.3	2313.8	2265.2	2191.9
12.5°	1945.0	1961.5	1985.3	2037.9	2119.5	2199.8	2276.4	2353.0	2276.4	2199.8	2119.5
15°	1898.2	1900.0	1906.2	1944.4	2014.6	2096.2	2211.8	2327.4	2211.8	2096.2	2014.6
17.5°	1874.1	1860.9	1847.7	1868.1	1922.2	1993.9	2118.4	2242.9	2118.4	1993.9	1922.2
20°	1859.0	1837.3	1812.6	1823.9	1871.4	1937.7	2060.6	2183.4	2060.6	1937.7	1871.4
22.5°	1833.4	1811.3	1784.1	1788.8	1825.6	1884.3	2008.8	2133.3	2008.8	1884.3	1825.6
25°	1780.8	1763.8	1740.0	1733.3	1743.6	1786.5	1926.9	2067.3	1926.9	1786.5	1743.6
27.5°	1718.9	1707.6	1693.1	1679.8	1667.6	1695.1	1841.7	1988.3	1841.7	1695.1	1667.6
30°	1682.7	1668.5	1654.1	1637.1	1617.4	1639.4	1786.0	1932.6	1786.0	1639.4	1617.4
32.5°	1688.9	1655.5	1621.3	1589.4	1559.8	1575.6	1727.1	1878.7	1727.1	1575.6	1559.8
35°	1693.1	1625.2	1568.4	1521.9	1485.8	1498.2	1656.2	1814.1	1656.2	1498.2	1485.8
37.5°	1593.6	1548.8	1499.9	1451.0	1402.0	1407.7	1577.0	1746.3	1577.0	1407.7	1402.0
40°	1553.9	1525.3	1462.3	1401.4	1342.6	1342.8	1520.4	1698.0	1520.4	1342.8	1342.6
42.5°	1517.0	1486.9	1404.9	1337.8	1285.6	1290.8	1468.4	1645.9	1468.4	1290.8	1285.6
45°	1296.9	1303.1	1281.4	1244.2	1191.6	1198.3	1383.1	1567.9	1383.1	1198.3	1191.6
47.5°	1089.4	1134.6	1183.1	1179.0	1122.2	1123.7	1299.8	1475.9	1299.8	1123.7	1122.2
50°	997.8	1061.5	1138.9	1145.1	1080.1	1072.9	1239.1	1405.3	1239.1	1072.9	1080.1
52.5°	921.6	1002.7	1105.7	1118.1	1039.8	1020.6	1178.6	1336.5	1178.6	1020.6	1039.8
55°	821.5	928.3	1069.8	1086.3	977.9	934.5	1086.3	1238.0	1086.3	934.5	977.9
57.5°	734.0	824.6	947.2	964.6	876.6	846.5	990.0	1133.5	990.0	846.5	876.6
60°	679.0	744.1	828.7	845.2	793.6	789.8	929.1	1068.5	929.1	789.8	793.6
62.5°	612.1	656.7	714.1	733.5	715.0	734.2	867.0	999.7	867.0	734.2	715.0
65°	490.1	525.7	573.2	601.1	609.3	645.7	766.5	887.3	766.5	645.7	609.3
67.5°	396.1	429.4	465.5	493.2	512.4	553.1	658.4	763.7	658.4	553.1	512.4
70°	316.4	350.7	391.0	424.0	449.8	492.4	585.3	678.3	585.3	492.4	449.8
72.5°	258.2	287.6	320.4	352.6	384.2	427.8	507.5	587.2	507.5	427.8	384.2
75°	166.7	189.7	219.6	252.2	287.3	329.6	393.6	457.6	393.6	329.6	287.3
77.5°	124.1	135.3	150.4	173.0	203.2	237.4	284.1	330.8	284.1	237.4	203.2
80°	100.1	100.7	101.7	117.7	148.7	180.7	215.8	250.9	215.8	180.7	148.7
82.5°	79.5	78.4	76.9	85.5	104.1	124.5	150.5	176.5	150.5	124.5	104.1
85°	36.9	40.3	44.4	47.5	49.6	54.2	66.6	79.0	66.6	54.2	49.6
87.5°	17.4	17.0	17.0	17.9	19.2	19.7	18.6	17.9	18.6	19.3	20.0
90°	40.6	38.7	38.7	36.8	31.0	23.2	13.5	5.8	13.5	21.3	34.8
92.5°	48.4	48.0	44.9	41.4	34.0	34.0	33.7	21.3	36.8	52.2	75.1
95°	44.5	44.5	52.2	65.8	96.7	98.7	65.8	60.0	85.1	119.9	150.9
97.5°	120.3	143.2	175.7	181.9	172.2	128.5	123.0	114.5	155.9	190.4	240.3
100°	222.5	251.5	274.7	228.3	179.9	178.0	166.4	162.5	207.0	239.9	288.3
102.5°	347.8	356.7	276.3	250.0	238.7	230.6	212.8	210.5	255.0	300.3	340.9
105°	377.3	338.6	340.5	340.5	332.8	317.3	284.4	282.5	332.8	385.0	435.3
107.5°	443.8	449.6	459.7	457.3	448.4	407.0	368.4	359.5	404.7	467.4	522.7
110°	532.0	537.8	541.7	537.8	524.3	472.1	425.6	412.1	452.7	518.5	578.5



TEST NUMBER: P1427984

CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	617.2	621.4	629.9	618.3	595.5	535.5	482.9	463.2	503.8	571.1	632.6
115°	752.6	752.6	754.5	748.7	702.3	640.4	570.7	541.7	576.5	638.4	706.1
117.5°	885.7	888.0	880.3	864.8	811.0	739.0	660.9	614.4	641.9	707.3	777.0
120°	969.3	973.1	965.4	942.2	889.9	808.7	719.7	665.5	686.8	750.6	820.3
122.5°	1055.9	1055.2	1045.9	1019.6	958.0	873.7	786.2	719.7	728.6	787.8	855.9
125°	1176.3	1174.3	1166.6	1135.6	1071.8	984.7	882.2	800.9	789.3	839.6	909.3
127.5°	1290.8	1286.5	1274.5	1237.0	1171.6	1087.7	975.1	883.0	857.0	888.8	952.6
130°	1369.7	1363.9	1342.6	1302.0	1238.2	1158.8	1044.7	940.2	903.5	922.8	978.9
132.5°	1445.6	1428.9	1410.7	1367.0	1307.8	1225.4	1109.7	1000.6	949.9	958.4	1002.1
135°	1541.9	1526.4	1503.2	1460.7	1404.5	1323.3	1207.2	1089.2	1019.6	1011.8	1037.0
137.5°	1626.6	1610.4	1584.1	1547.3	1490.8	1418.5	1307.0	1182.5	1094.6	1068.7	1078.4
140°	1679.3	1659.9	1636.7	1599.9	1549.6	1474.2	1365.9	1245.9	1147.2	1110.5	1104.7
142.5°	1722.6	1707.9	1683.1	1649.5	1605.4	1529.9	1424.7	1306.3	1201.4	1153.8	1140.3
145°	1787.6	1776.0	1748.9	1718.0	1681.2	1605.8	1509.0	1391.0	1286.5	1224.6	1195.6
147.5°	1842.6	1833.3	1812.0	1775.6	1744.7	1672.3	1584.1	1479.6	1372.4	1295.8	1258.3
150°	1876.6	1868.9	1847.6	1812.8	1781.8	1714.1	1629.0	1532.2	1429.7	1348.4	1300.1
152.5°	1909.1	1901.4	1877.0	1842.2	1815.9	1752.8	1675.4	1583.3	1479.2	1398.0	1348.1
155°	1952.1	1942.4	1919.2	1886.3	1863.1	1805.0	1733.4	1652.2	1563.2	1478.1	1422.0
157.5°	1986.1	1974.1	1952.4	1924.2	1899.4	1846.0	1783.7	1713.7	1635.9	1554.7	1497.4
160°	2006.2	1992.7	1969.5	1944.3	1921.1	1870.8	1814.7	1750.8	1679.3	1605.8	1543.8
162.5°	2020.2	2008.2	1980.3	1958.2	1938.1	1892.5	1839.5	1781.8	1718.0	1653.7	1596.5
165°	2035.2	2021.7	1992.7	1975.3	1957.9	1919.2	1872.7	1826.3	1772.1	1719.9	1673.5
167.5°	2036.4	2025.2	1996.2	1979.1	1966.4	1933.1	1895.6	1860.0	1817.8	1776.8	1738.1
170°	2033.3	2023.6	1994.6	1979.1	1969.5	1942.4	1909.5	1878.5	1845.6	1810.8	1779.9
172.5°	2022.5	2012.8	1985.3	1972.9	1967.9	1943.9	1917.2	1894.0	1865.8	1840.2	1815.5
175°	1994.6	1986.9	1963.7	1955.9	1957.9	1942.4	1923.0	1909.5	1892.1	1876.6	1863.1
177.5°	1954.0	1949.3	1932.3	1932.3	1938.5	1929.2	1923.0	1916.8	1909.1	1904.5	1899.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1427984

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2416.9	2399.1	2389.2	2381.4	2379.7	2378.1	2379.7	2381.4	2389.2	2399.1	2416.9
5°	2331.6	2283.6	2251.6	2227.0	2225.0	2222.9	2225.0	2227.0	2251.6	2283.6	2331.6
7.5°	2196.7	2141.2	2105.8	2079.0	2077.3	2075.6	2077.3	2079.0	2105.8	2141.2	2196.7
10°	2110.4	2053.6	2021.6	1997.6	1997.6	1997.6	1997.6	1997.6	2021.6	2053.6	2110.4
12.5°	2037.9	1985.3	1961.5	1945.0	1949.9	1954.9	1949.9	1945.0	1961.5	1985.3	2037.9
15°	1944.4	1906.2	1900.0	1898.2	1909.6	1921.0	1909.6	1898.2	1900.0	1906.2	1944.4
17.5°	1868.1	1847.7	1860.9	1874.1	1887.3	1900.5	1887.3	1874.1	1860.9	1847.7	1868.1
20°	1823.9	1812.6	1837.3	1859.0	1871.4	1883.8	1871.4	1859.0	1837.3	1812.6	1823.9
22.5°	1788.8	1784.1	1811.3	1833.4	1840.0	1846.6	1840.0	1833.4	1811.3	1784.1	1788.8
25°	1733.3	1740.0	1763.8	1780.8	1777.7	1774.6	1777.7	1780.8	1763.8	1740.0	1733.3
27.5°	1679.8	1693.1	1707.6	1718.9	1720.7	1722.6	1720.7	1718.9	1707.6	1693.1	1679.8
30°	1637.1	1654.1	1668.5	1682.7	1696.2	1709.6	1696.2	1682.7	1668.5	1654.1	1637.1
32.5°	1589.4	1621.3	1655.5	1688.9	1719.7	1750.5	1719.7	1688.9	1655.5	1621.3	1589.4
35°	1521.9	1568.4	1625.2	1693.1	1794.2	1895.4	1794.2	1693.1	1625.2	1568.4	1521.9
37.5°	1451.0	1499.9	1548.8	1593.6	1625.8	1658.0	1625.8	1593.6	1548.8	1499.9	1451.0
40°	1401.4	1462.3	1525.3	1553.9	1479.6	1405.3	1479.6	1553.9	1525.3	1462.3	1401.4
42.5°	1337.8	1404.9	1486.9	1517.0	1391.5	1265.9	1391.5	1517.0	1486.9	1404.9	1337.8
45°	1244.2	1281.4	1303.1	1296.9	1207.1	1117.3	1207.1	1296.9	1303.1	1281.4	1244.2
47.5°	1179.0	1183.1	1134.6	1089.4	1054.3	1019.2	1054.3	1089.4	1134.6	1183.1	1179.0
50°	1145.1	1138.9	1061.5	997.8	975.1	952.3	975.1	997.8	1061.5	1138.9	1145.1
52.5°	1118.1	1105.7	1002.7	921.6	906.3	891.0	906.3	921.6	1002.7	1105.7	1118.1
55°	1086.3	1069.8	928.3	821.5	818.4	815.3	818.4	821.5	928.3	1069.8	1086.3
57.5°	964.6	947.2	824.6	734.0	739.3	744.7	739.3	734.0	824.6	947.2	964.6
60°	845.2	828.7	744.1	679.0	672.8	666.6	672.8	679.0	744.1	828.7	845.2
62.5°	733.5	714.1	656.7	612.1	605.9	599.7	605.9	612.1	656.7	714.1	733.5
65°	601.1	573.2	525.7	490.1	490.1	490.1	490.1	490.1	525.7	573.2	601.1
67.5°	493.2	465.5	429.4	396.1	371.3	346.6	371.3	396.1	429.4	465.5	493.2
70°	424.0	391.0	350.7	316.4	299.9	283.4	299.9	316.4	350.7	391.0	424.0
72.5°	352.6	320.4	287.6	258.2	239.2	220.2	239.2	258.2	287.6	320.4	352.6
75°	252.2	219.6	189.7	166.7	164.7	162.6	164.7	166.7	189.7	219.6	252.2
77.5°	173.0	150.4	135.3	124.1	124.3	124.5	124.3	124.1	135.3	150.4	173.0
80°	117.7	101.7	100.7	100.1	101.2	102.2	101.2	100.1	100.7	101.7	117.7
82.5°	85.5	76.9	78.4	79.5	79.7	79.9	79.7	79.5	78.4	76.9	85.5
85°	47.5	44.4	40.3	36.9	35.9	34.8	35.9	36.9	40.3	44.4	47.5
87.5°	19.4	20.9	23.6	25.2	26.7	25.9	26.7	25.2	23.6	20.9	19.4
90°	44.5	58.0	71.6	79.3	87.1	83.2	87.1	79.3	71.6	58.0	44.5
92.5°	89.4	112.2	128.8	142.8	149.0	148.2	149.0	142.8	128.8	112.2	89.4
95°	179.9	207.0	234.1	253.4	265.0	261.2	265.0	253.4	234.1	207.0	179.9
97.5°	277.4	313.8	344.0	362.2	373.8	381.5	373.8	362.2	344.0	313.8	277.4
100°	342.4	377.3	412.1	433.4	452.7	460.4	452.7	433.4	412.1	377.3	342.4
102.5°	395.1	440.7	478.6	501.5	517.7	525.4	517.7	501.5	478.6	440.7	395.1
105°	481.7	530.1	570.7	599.7	617.2	623.0	617.2	599.7	570.7	530.1	481.7
107.5°	568.4	618.3	655.8	688.0	709.2	721.6	709.2	688.0	655.8	618.3	568.4
110°	636.5	677.1	717.8	746.8	768.1	775.8	768.1	746.8	717.8	677.1	636.5



TEST NUMBER: P1427984

CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	693.8	739.0	779.7	808.7	833.1	843.9	833.1	808.7	779.7	739.0	693.8
115°	773.9	833.8	870.6	897.7	915.1	924.8	915.1	897.7	870.6	833.8	773.9
117.5°	840.4	903.1	943.3	964.2	972.4	979.3	972.4	964.2	943.3	903.1	840.4
120°	882.2	940.2	986.7	1013.8	1023.4	1027.3	1023.4	1013.8	986.7	940.2	882.2
122.5°	920.9	975.8	1020.7	1054.0	1069.9	1073.7	1069.9	1054.0	1020.7	975.8	920.9
125°	975.1	1027.3	1073.7	1106.6	1124.0	1133.7	1124.0	1106.6	1073.7	1027.3	975.1
127.5°	1022.3	1078.8	1121.3	1151.1	1168.1	1175.9	1168.1	1151.1	1121.3	1078.8	1022.3
130°	1048.6	1106.6	1149.2	1182.1	1197.5	1205.3	1197.5	1182.1	1149.2	1106.6	1048.6
132.5°	1068.7	1129.8	1173.9	1203.7	1220.8	1228.5	1220.8	1203.7	1173.9	1129.8	1068.7
135°	1093.1	1156.9	1203.3	1232.4	1247.8	1255.6	1247.8	1232.4	1203.3	1156.9	1093.1
137.5°	1114.4	1172.4	1220.8	1251.3	1265.3	1270.3	1265.3	1251.3	1220.8	1172.4	1114.4
140°	1129.8	1180.1	1228.5	1257.5	1273.0	1274.9	1273.0	1257.5	1228.5	1180.1	1129.8
142.5°	1150.0	1189.4	1231.6	1260.6	1276.1	1279.6	1276.1	1260.6	1231.6	1189.4	1150.0
145°	1185.9	1209.2	1238.2	1265.3	1278.8	1282.7	1278.8	1265.3	1238.2	1209.2	1185.9
147.5°	1231.2	1238.6	1253.6	1271.4	1284.6	1287.3	1284.6	1271.4	1253.6	1238.6	1231.2
150°	1265.3	1263.3	1269.1	1280.7	1292.3	1290.4	1292.3	1280.7	1269.1	1263.3	1265.3
152.5°	1303.9	1292.7	1292.3	1297.8	1303.2	1302.8	1303.2	1297.8	1292.3	1292.7	1303.9
155°	1369.7	1348.4	1336.8	1333.0	1333.0	1331.0	1333.0	1333.0	1336.8	1348.4	1369.7
157.5°	1442.1	1412.3	1394.9	1385.6	1382.9	1378.6	1382.9	1385.6	1394.9	1412.3	1442.1
160°	1491.6	1458.7	1441.3	1425.8	1420.0	1414.2	1420.0	1425.8	1441.3	1458.7	1491.6
162.5°	1538.0	1506.7	1487.7	1473.8	1468.0	1459.1	1468.0	1473.8	1487.7	1506.7	1538.0
165°	1613.5	1580.6	1559.3	1547.7	1540.0	1532.2	1540.0	1547.7	1559.3	1580.6	1613.5
167.5°	1688.9	1653.0	1639.0	1625.9	1618.5	1604.6	1618.5	1625.9	1639.0	1653.0	1688.9
170°	1735.4	1702.5	1694.7	1683.1	1669.6	1654.1	1669.6	1683.1	1694.7	1702.5	1735.4
172.5°	1775.6	1753.6	1745.8	1734.2	1730.0	1717.6	1730.0	1734.2	1745.8	1753.6	1775.6
175°	1834.0	1816.6	1816.6	1814.7	1808.9	1797.3	1808.9	1814.7	1816.6	1816.6	1834.0
177.5°	1882.8	1873.5	1879.7	1879.7	1878.1	1867.3	1878.1	1879.7	1879.7	1873.5	1882.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1427984

CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2441.3	2441.3	2441.3	2441.3
2.5°	2442.5	2458.8	2447.2	2435.7
5°	2395.6	2443.8	2444.9	2445.9
7.5°	2272.5	2337.3	2369.3	2401.3
10°	2191.9	2265.2	2313.8	2362.3
12.5°	2119.5	2199.8	2276.4	2353.0
15°	2014.6	2096.2	2211.8	2327.4
17.5°	1922.2	1993.9	2118.4	2242.9
20°	1871.4	1937.7	2060.6	2183.4
22.5°	1825.6	1884.3	2008.8	2133.3
25°	1743.6	1786.5	1926.9	2067.3
27.5°	1667.6	1695.1	1841.7	1988.3
30°	1617.4	1639.4	1786.0	1932.6
32.5°	1559.8	1575.6	1727.1	1878.7
35°	1485.8	1498.2	1656.2	1814.1
37.5°	1402.0	1407.7	1577.0	1746.3
40°	1342.6	1342.8	1520.4	1698.0
42.5°	1285.6	1290.8	1468.4	1645.9
45°	1191.6	1198.3	1383.1	1567.9
47.5°	1122.2	1123.7	1299.8	1475.9
50°	1080.1	1072.9	1239.1	1405.3
52.5°	1039.8	1020.6	1178.6	1336.5
55°	977.9	934.5	1086.3	1238.0
57.5°	876.6	846.5	990.0	1133.5
60°	793.6	789.8	929.1	1068.5
62.5°	715.0	734.2	867.0	999.7
65°	609.3	645.7	766.5	887.3
67.5°	512.4	553.1	658.4	763.7
70°	449.8	492.4	585.3	678.3
72.5°	384.2	427.8	507.5	587.2
75°	287.3	329.6	393.6	457.6
77.5°	203.2	237.4	284.1	330.8
80°	148.7	180.7	215.8	250.9
82.5°	104.1	124.5	150.5	176.5
85°	49.6	54.2	66.6	79.0
87.5°	20.0	19.3	18.6	17.9
90°	34.8	21.3	13.5	5.8
92.5°	75.1	52.2	36.8	21.3
95°	150.9	119.9	85.1	60.0
97.5°	240.3	190.4	155.9	114.5
100°	288.3	239.9	207.0	162.5
102.5°	340.9	300.3	255.0	210.5
105°	435.3	385.0	332.8	282.5
107.5°	522.7	467.4	404.7	359.5
110°	578.5	518.5	452.7	412.1

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	632.6	571.1	503.8	463.2
115°	706.1	638.4	576.5	541.7
117.5°	777.0	707.3	641.9	614.4
120°	820.3	750.6	686.8	665.5
122.5°	855.9	787.8	728.6	719.7
125°	909.3	839.6	789.3	800.9
127.5°	952.6	888.8	857.0	883.0
130°	978.9	922.8	903.5	940.2
132.5°	1002.1	958.4	949.9	1000.6
135°	1037.0	1011.8	1019.6	1089.2
137.5°	1078.4	1068.7	1094.6	1182.5
140°	1104.7	1110.5	1147.2	1245.9
142.5°	1140.3	1153.8	1201.4	1306.3
145°	1195.6	1224.6	1286.5	1391.0
147.5°	1258.3	1295.8	1372.4	1479.6
150°	1300.1	1348.4	1429.7	1532.2
152.5°	1348.1	1398.0	1479.2	1583.3
155°	1422.0	1478.1	1563.2	1652.2
157.5°	1497.4	1554.7	1635.9	1713.7
160°	1543.8	1605.8	1679.3	1750.8
162.5°	1596.5	1653.7	1718.0	1781.8
165°	1673.5	1719.9	1772.1	1826.3
167.5°	1738.1	1776.8	1817.8	1860.0
170°	1779.9	1810.8	1845.6	1878.5
172.5°	1815.5	1840.2	1865.8	1894.0
175°	1863.1	1876.6	1892.1	1909.5
177.5°	1899.8	1904.5	1909.1	1916.8
180°	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1427984  
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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	19.56	20.41	20.53	21.39	22.67	18.39	19.24	19.36	20.22	21.50
	3H	21.73	22.49	22.71	23.48	24.79	19.44	20.20	20.42	21.19	22.49
	4H	22.55	23.26	23.54	24.26	25.57	19.68	20.40	20.67	21.39	22.71
	6H	23.01	23.67	24.02	24.67	26.00	19.82	20.48	20.82	21.48	22.81
	8H	23.17	23.79	24.17	24.81	26.13	19.88	20.51	20.89	21.52	22.85
	12H	23.22	23.82	24.24	24.83	26.18	19.89	20.49	20.90	21.50	22.84
4H	2H	19.99	20.71	20.99	21.70	23.02	19.07	19.79	20.07	20.78	22.10
	3H	22.24	22.84	23.25	23.86	25.19	20.30	20.90	21.31	21.92	23.25
	4H	23.12	23.66	24.13	24.68	26.03	20.59	21.14	21.61	22.15	23.50
	6H	23.68	24.14	24.70	25.18	26.53	20.79	21.26	21.81	22.30	23.64
	8H	23.88	24.32	24.90	25.35	26.71	20.88	21.32	21.90	22.35	23.71
	12H	23.96	24.36	25.01	25.40	26.77	20.90	21.30	21.95	22.34	23.71
8H	4H	23.14	23.58	24.16	24.61	25.97	20.82	21.26	21.85	22.29	23.65
	6H	23.77	24.13	24.82	25.20	26.56	21.09	21.45	22.14	22.52	23.88
	8H	24.03	24.35	25.09	25.41	26.79	21.23	21.55	22.29	22.61	23.99
	12H	24.16	24.44	25.22	25.49	26.91	21.30	21.58	22.36	22.63	24.05
12H	4H	23.09	23.49	24.13	24.53	25.90	20.81	21.21	21.86	22.25	23.62
	6H	23.74	24.06	24.80	25.12	26.50	21.12	21.44	22.18	22.50	23.88
	8H	24.01	24.29	25.08	25.35	26.77	21.28	21.56	22.34	22.61	24.04