

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: P1427978

Luminaire Tested: SQ2W-PH1-K-150U-100D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427978  
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-100D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

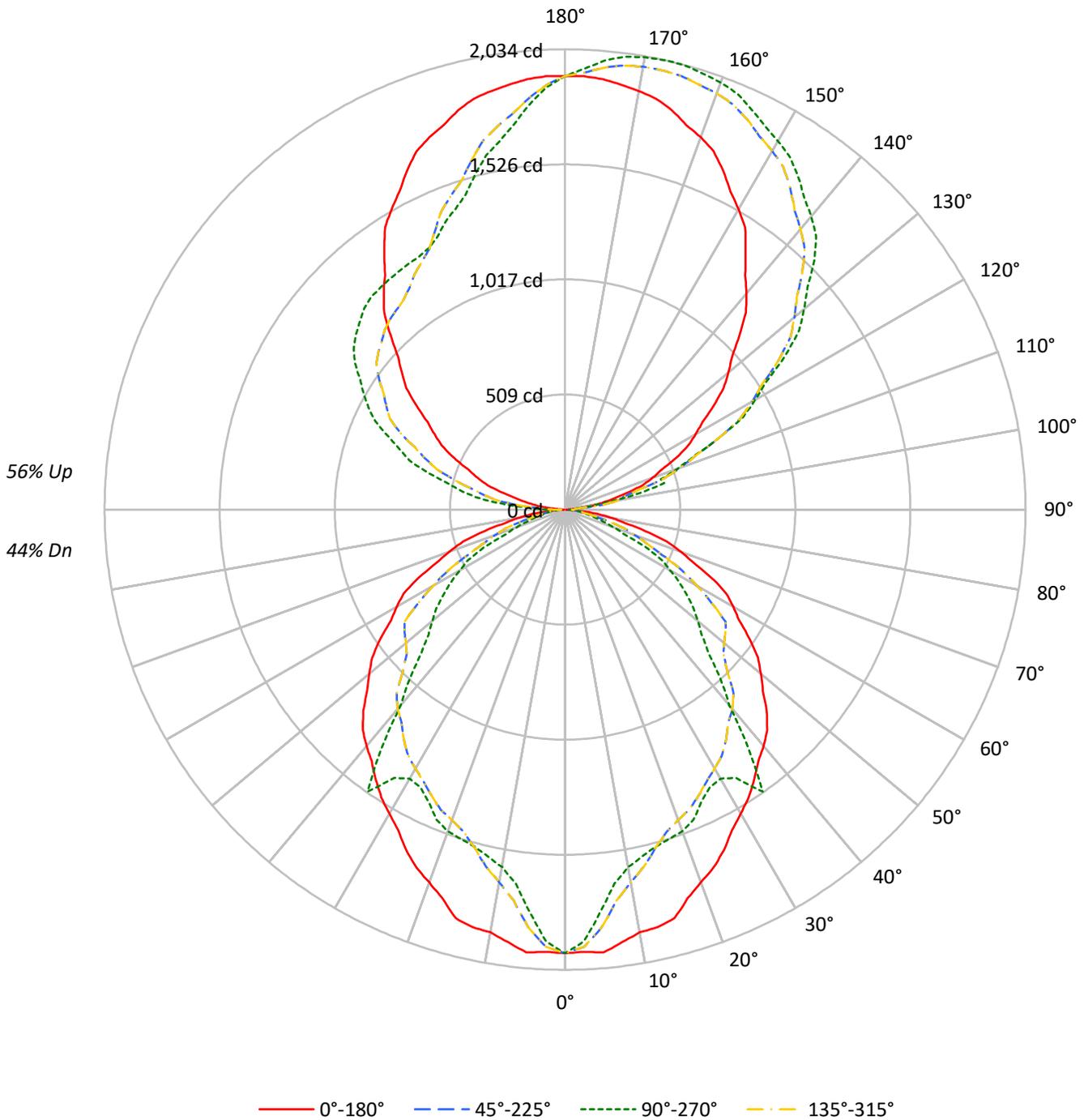
Lumens per Lamp: N/A  
Luminaire Lumens: 9935.3 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.7  
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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	97	92	89	85	88	85	81	79	70	68	66	57	55	54	45	44	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	36	32	29	28	26	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	29	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	18	16	13	11

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

	0°	90°	180°	270°
0°	31655	31655	31655	31655
5°	31836	28935	31836	28935
10°	31104	26302	31104	26302
15°	31244	25786	31244	25786
20°	30128	25994	30128	25994
25°	29578	25389	29578	25389
30°	28936	25597	28936	25597
35°	28716	30003	28716	30003
40°	28742	23787	28742	23787
45°	28752	20488	28752	20488
50°	28348	19210	28348	19210
55°	27988	18432	27988	18432
60°	27709	17289	27709	17289
65°	27224	15037	27224	15037
70°	25713	10744	25713	10744
75°	22925	8147	22925	8147
80°	18735	7634	18735	7634
85°	11745	5187	11745	5187

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28752 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.5	1.7
10°-20°	453.8	4.6
20°-30°	665.3	6.7
30°-40°	805.6	8.1
40°-50°	792.2	8.0
50°-60°	689.1	6.9
60°-70°	479.2	4.8
70°-80°	227.3	2.3
80°-90°	58.0	0.6
90°-100°	152.4	1.5
100°-110°	444.5	4.5
110°-120°	725.4	7.3
120°-130°	920.5	9.3
130°-140°	985.0	9.9
140°-150°	919.8	9.3
150°-160°	756.8	7.6
160°-170°	507.6	5.1
170°-180°	180.2	1.8
0°-30°	1291.6	13.0
0°-40°	2097.2	21.1
0°-60°	3578.4	36.0
0°-90°	4343.0	43.7
90°-120°	1322.4	13.3
90°-150°	4147.7	41.7
90°-180°	5592.0	56.3
0°-180°	9935.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1961	1961	1961	1961	1961	
5°	1964	1785	1964	1785	1964	185
15°	1869	1543	1869	1543	1869	521
25°	1660	1425	1660	1425	1660	764
35°	1457	1522	1457	1522	1457	913
45°	1259	897	1259	897	1259	968
55°	994	655	994	655	994	888
65°	713	394	713	394	713	700
75°	368	131	368	131	368	389
85°	63	28	63	28	63	85
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°	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6
2.5°	1956.1	1965.4	1974.7	1961.6	1941.0	1926.8	1918.8	1912.5	1911.2	1909.9	1911.2
5°	1964.3	1963.5	1962.7	1923.9	1872.5	1834.0	1808.3	1788.6	1786.9	1785.3	1786.9
7.5°	1928.5	1902.8	1877.1	1825.1	1764.2	1719.6	1691.2	1669.6	1668.3	1667.0	1668.3
10°	1897.2	1858.2	1819.2	1760.4	1694.9	1649.3	1623.6	1604.3	1604.3	1604.3	1604.3
12.5°	1889.7	1828.2	1766.7	1702.2	1636.7	1594.4	1575.3	1562.0	1566.0	1570.0	1566.0
15°	1869.2	1776.3	1683.5	1618.0	1561.6	1530.9	1526.0	1524.5	1533.6	1542.7	1533.6
17.5°	1801.3	1701.3	1601.3	1543.7	1500.3	1483.9	1494.5	1505.1	1515.7	1526.3	1515.7
20°	1753.5	1654.9	1556.2	1502.9	1464.8	1455.7	1475.6	1493.0	1502.9	1512.9	1502.9
22.5°	1713.2	1613.3	1513.3	1466.1	1436.6	1432.8	1454.7	1472.4	1477.7	1483.0	1477.7
25°	1660.3	1547.5	1434.8	1400.3	1392.1	1397.4	1416.5	1430.2	1427.7	1425.2	1427.7
27.5°	1596.8	1479.1	1361.4	1339.3	1349.1	1359.8	1371.4	1380.4	1381.9	1383.4	1381.9
30°	1552.1	1434.3	1316.6	1299.0	1314.7	1328.4	1340.0	1351.4	1362.2	1373.0	1362.2
32.5°	1508.8	1387.1	1265.4	1252.7	1276.4	1302.1	1329.6	1356.4	1381.1	1405.8	1381.1
35°	1456.9	1330.1	1203.2	1193.3	1222.3	1259.6	1305.2	1359.7	1441.0	1522.2	1441.0
37.5°	1402.5	1266.5	1130.5	1126.0	1165.3	1204.6	1243.9	1279.8	1305.7	1331.6	1305.7
40°	1363.7	1221.1	1078.4	1078.2	1125.5	1174.4	1225.0	1248.0	1188.3	1128.6	1188.3
42.5°	1321.9	1179.3	1036.7	1032.5	1074.4	1128.3	1194.1	1218.3	1117.5	1016.7	1117.5
45°	1259.2	1110.8	962.4	957.0	999.3	1029.1	1046.5	1041.6	969.4	897.3	969.4
47.5°	1185.3	1043.9	902.4	901.3	946.9	950.2	911.2	874.9	846.8	818.6	846.8
50°	1128.6	995.1	861.6	867.4	919.7	914.7	852.5	801.3	783.1	764.8	783.1
52.5°	1073.4	946.5	819.7	835.1	898.0	888.0	805.3	740.1	727.9	715.6	727.9
55°	994.3	872.4	750.5	785.4	872.4	859.2	745.6	659.8	657.3	654.8	657.3
57.5°	910.3	795.1	679.9	704.0	774.7	760.7	662.2	589.4	593.8	598.1	593.8
60°	858.1	746.2	634.3	637.4	678.8	665.6	597.6	545.3	540.4	535.4	540.4
62.5°	802.9	696.3	589.7	574.2	589.1	573.5	527.4	491.6	486.6	481.7	486.6
65°	712.6	615.6	518.6	489.4	482.7	460.4	422.2	393.6	393.6	393.6	393.6
67.5°	613.4	528.8	444.2	411.5	396.1	373.9	344.9	318.1	298.2	278.3	298.2
70°	544.7	470.1	395.5	361.3	340.6	314.0	281.7	254.1	240.9	227.6	240.9
72.5°	471.6	407.6	343.6	308.5	283.2	257.3	230.9	207.4	192.1	176.8	192.1
75°	367.5	316.1	264.7	230.7	202.5	176.4	152.3	133.9	132.2	130.6	132.2
77.5°	265.6	228.2	190.7	163.2	139.0	120.8	108.7	99.7	99.8	100.0	99.8
80°	201.5	173.3	145.1	119.4	94.5	81.7	80.8	80.4	81.3	82.1	81.3
82.5°	141.8	120.9	100.0	83.6	68.6	61.8	62.9	63.8	64.0	64.2	64.0
85°	63.4	53.5	43.5	39.8	38.1	35.7	32.3	29.6	28.8	28.0	28.8
87.5°	14.6	15.5	16.7	16.6	15.8	15.2	15.2	15.6	16.0	16.0	16.0
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°	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6
2.5°	1912.5	1918.8	1926.8	1941.0	1961.6	1974.7	1965.4	1956.1	1965.4	1974.7	1961.6
5°	1788.6	1808.3	1834.0	1872.5	1923.9	1962.7	1963.5	1964.3	1963.5	1962.7	1923.9
7.5°	1669.6	1691.2	1719.6	1764.2	1825.1	1877.1	1902.8	1928.5	1902.8	1877.1	1825.1
10°	1604.3	1623.6	1649.3	1694.9	1760.4	1819.2	1858.2	1897.2	1858.2	1819.2	1760.4
12.5°	1562.0	1575.3	1594.4	1636.7	1702.2	1766.7	1828.2	1889.7	1828.2	1766.7	1702.2
15°	1524.5	1526.0	1530.9	1561.6	1618.0	1683.5	1776.3	1869.2	1776.3	1683.5	1618.0
17.5°	1505.1	1494.5	1483.9	1500.3	1543.7	1601.3	1701.3	1801.3	1701.3	1601.3	1543.7
20°	1493.0	1475.6	1455.7	1464.8	1502.9	1556.2	1654.9	1753.5	1654.9	1556.2	1502.9
22.5°	1472.4	1454.7	1432.8	1436.6	1466.1	1513.3	1613.3	1713.2	1613.3	1513.3	1466.1
25°	1430.2	1416.5	1397.4	1392.1	1400.3	1434.8	1547.5	1660.3	1547.5	1434.8	1400.3
27.5°	1380.4	1371.4	1359.8	1349.1	1339.3	1361.4	1479.1	1596.8	1479.1	1361.4	1339.3
30°	1351.4	1340.0	1328.4	1314.7	1299.0	1316.6	1434.3	1552.1	1434.3	1316.6	1299.0
32.5°	1356.4	1329.6	1302.1	1276.4	1252.7	1265.4	1387.1	1508.8	1387.1	1265.4	1252.7
35°	1359.7	1305.2	1259.6	1222.3	1193.3	1203.2	1330.1	1456.9	1330.1	1203.2	1193.3
37.5°	1279.8	1243.9	1204.6	1165.3	1126.0	1130.5	1266.5	1402.5	1266.5	1130.5	1126.0
40°	1248.0	1225.0	1174.4	1125.5	1078.2	1078.4	1221.1	1363.7	1221.1	1078.4	1078.2
42.5°	1218.3	1194.1	1128.3	1074.4	1032.5	1036.7	1179.3	1321.9	1179.3	1036.7	1032.5
45°	1041.6	1046.5	1029.1	999.3	957.0	962.4	1110.8	1259.2	1110.8	962.4	957.0
47.5°	874.9	911.2	950.2	946.9	901.3	902.4	1043.9	1185.3	1043.9	902.4	901.3
50°	801.3	852.5	914.7	919.7	867.4	861.6	995.1	1128.6	995.1	861.6	867.4
52.5°	740.1	805.3	888.0	898.0	835.1	819.7	946.5	1073.4	946.5	819.7	835.1
55°	659.8	745.6	859.2	872.4	785.4	750.5	872.4	994.3	872.4	750.5	785.4
57.5°	589.4	662.2	760.7	774.7	704.0	679.9	795.1	910.3	795.1	679.9	704.0
60°	545.3	597.6	665.6	678.8	637.4	634.3	746.2	858.1	746.2	634.3	637.4
62.5°	491.6	527.4	573.5	589.1	574.2	589.7	696.3	802.9	696.3	589.7	574.2
65°	393.6	422.2	460.4	482.7	489.4	518.6	615.6	712.6	615.6	518.6	489.4
67.5°	318.1	344.9	373.9	396.1	411.5	444.2	528.8	613.4	528.8	444.2	411.5
70°	254.1	281.7	314.0	340.6	361.3	395.5	470.1	544.7	470.1	395.5	361.3
72.5°	207.4	230.9	257.3	283.2	308.5	343.6	407.6	471.6	407.6	343.6	308.5
75°	133.9	152.3	176.4	202.5	230.7	264.7	316.1	367.5	316.1	264.7	230.7
77.5°	99.7	108.7	120.8	139.0	163.2	190.7	228.2	265.6	228.2	190.7	163.2
80°	80.4	80.8	81.7	94.5	119.4	145.1	173.3	201.5	173.3	145.1	119.4
82.5°	63.8	62.9	61.8	68.6	83.6	100.0	120.9	141.8	120.9	100.0	83.6
85°	29.6	32.3	35.7	38.1	39.8	43.5	53.5	63.4	53.5	43.5	39.8
87.5°	15.6	15.2	15.2	15.8	16.6	16.7	15.5	14.6	15.5	16.4	17.4
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: P1427978

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-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: P1427978

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6	1960.6
2.5°	1941.0	1926.8	1918.8	1912.5	1911.2	1909.9	1911.2	1912.5	1918.8	1926.8	1941.0
5°	1872.5	1834.0	1808.3	1788.6	1786.9	1785.3	1786.9	1788.6	1808.3	1834.0	1872.5
7.5°	1764.2	1719.6	1691.2	1669.6	1668.3	1667.0	1668.3	1669.6	1691.2	1719.6	1764.2
10°	1694.9	1649.3	1623.6	1604.3	1604.3	1604.3	1604.3	1604.3	1623.6	1649.3	1694.9
12.5°	1636.7	1594.4	1575.3	1562.0	1566.0	1570.0	1566.0	1562.0	1575.3	1594.4	1636.7
15°	1561.6	1530.9	1526.0	1524.5	1533.6	1542.7	1533.6	1524.5	1526.0	1530.9	1561.6
17.5°	1500.3	1483.9	1494.5	1505.1	1515.7	1526.3	1515.7	1505.1	1494.5	1483.9	1500.3
20°	1464.8	1455.7	1475.6	1493.0	1502.9	1512.9	1502.9	1493.0	1475.6	1455.7	1464.8
22.5°	1436.6	1432.8	1454.7	1472.4	1477.7	1483.0	1477.7	1472.4	1454.7	1432.8	1436.6
25°	1392.1	1397.4	1416.5	1430.2	1427.7	1425.2	1427.7	1430.2	1416.5	1397.4	1392.1
27.5°	1349.1	1359.8	1371.4	1380.4	1381.9	1383.4	1381.9	1380.4	1371.4	1359.8	1349.1
30°	1314.7	1328.4	1340.0	1351.4	1362.2	1373.0	1362.2	1351.4	1340.0	1328.4	1314.7
32.5°	1276.4	1302.1	1329.6	1356.4	1381.1	1405.8	1381.1	1356.4	1329.6	1302.1	1276.4
35°	1222.3	1259.6	1305.2	1359.7	1441.0	1522.2	1441.0	1359.7	1305.2	1259.6	1222.3
37.5°	1165.3	1204.6	1243.9	1279.8	1305.7	1331.6	1305.7	1279.8	1243.9	1204.6	1165.3
40°	1125.5	1174.4	1225.0	1248.0	1188.3	1128.6	1188.3	1248.0	1225.0	1174.4	1125.5
42.5°	1074.4	1128.3	1194.1	1218.3	1117.5	1016.7	1117.5	1218.3	1194.1	1128.3	1074.4
45°	999.3	1029.1	1046.5	1041.6	969.4	897.3	969.4	1041.6	1046.5	1029.1	999.3
47.5°	946.9	950.2	911.2	874.9	846.8	818.6	846.8	911.2	950.2	946.9	946.9
50°	919.7	914.7	852.5	801.3	783.1	764.8	783.1	801.3	852.5	914.7	919.7
52.5°	898.0	888.0	805.3	740.1	727.9	715.6	727.9	740.1	805.3	888.0	898.0
55°	872.4	859.2	745.6	659.8	657.3	654.8	657.3	659.8	745.6	859.2	872.4
57.5°	774.7	760.7	662.2	589.4	593.8	598.1	593.8	589.4	662.2	760.7	774.7
60°	678.8	665.6	597.6	545.3	540.4	535.4	540.4	545.3	597.6	665.6	678.8
62.5°	589.1	573.5	527.4	491.6	486.6	481.7	486.6	491.6	527.4	573.5	589.1
65°	482.7	460.4	422.2	393.6	393.6	393.6	393.6	422.2	460.4	482.7	482.7
67.5°	396.1	373.9	344.9	318.1	298.2	278.3	298.2	318.1	344.9	373.9	396.1
70°	340.6	314.0	281.7	254.1	240.9	227.6	240.9	254.1	281.7	314.0	340.6
72.5°	283.2	257.3	230.9	207.4	192.1	176.8	192.1	207.4	230.9	257.3	283.2
75°	202.5	176.4	152.3	133.9	132.2	130.6	132.2	133.9	152.3	176.4	202.5
77.5°	139.0	120.8	108.7	99.7	99.8	100.0	99.8	99.7	108.7	120.8	139.0
80°	94.5	81.7	80.8	80.4	81.3	82.1	81.3	80.4	80.8	81.7	94.5
82.5°	68.6	61.8	62.9	63.8	64.0	64.2	64.0	63.8	62.9	61.8	68.6
85°	38.1	35.7	32.3	29.6	28.8	28.0	28.8	29.6	32.3	35.7	38.1
87.5°	17.4	19.1	21.8	23.3	24.9	24.1	24.9	23.3	21.8	19.1	17.4
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	128.8	112.2	89.4	89.4
95°	179.9	207.0	234.1	253.4	265.0	261.2	265.0	234.1	207.0	179.9	179.9
97.5°	277.4	313.8	344.0	362.2	373.8	381.5	373.8	344.0	313.8	277.4	277.4
100°	342.4	377.3	412.1	433.4	452.7	460.4	452.7	412.1	377.3	342.4	342.4
102.5°	395.1	440.7	478.6	501.5	517.7	525.4	517.7	478.6	440.7	395.1	395.1
105°	481.7	530.1	570.7	599.7	617.2	623.0	617.2	570.7	530.1	481.7	481.7
107.5°	568.4	618.3	655.8	688.0	709.2	721.6	709.2	655.8	618.3	568.4	568.4
110°	636.5	677.1	717.8	746.8	768.1	775.8	768.1	717.8	677.1	636.5	636.5



TEST NUMBER: P1427978

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-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: P1427978

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1960.6	1960.6	1960.6	1960.6
2.5°	1961.6	1974.7	1965.4	1956.1
5°	1923.9	1962.7	1963.5	1964.3
7.5°	1825.1	1877.1	1902.8	1928.5
10°	1760.4	1819.2	1858.2	1897.2
12.5°	1702.2	1766.7	1828.2	1889.7
15°	1618.0	1683.5	1776.3	1869.2
17.5°	1543.7	1601.3	1701.3	1801.3
20°	1502.9	1556.2	1654.9	1753.5
22.5°	1466.1	1513.3	1613.3	1713.2
25°	1400.3	1434.8	1547.5	1660.3
27.5°	1339.3	1361.4	1479.1	1596.8
30°	1299.0	1316.6	1434.3	1552.1
32.5°	1252.7	1265.4	1387.1	1508.8
35°	1193.3	1203.2	1330.1	1456.9
37.5°	1126.0	1130.5	1266.5	1402.5
40°	1078.2	1078.4	1221.1	1363.7
42.5°	1032.5	1036.7	1179.3	1321.9
45°	957.0	962.4	1110.8	1259.2
47.5°	901.3	902.4	1043.9	1185.3
50°	867.4	861.6	995.1	1128.6
52.5°	835.1	819.7	946.5	1073.4
55°	785.4	750.5	872.4	994.3
57.5°	704.0	679.9	795.1	910.3
60°	637.4	634.3	746.2	858.1
62.5°	574.2	589.7	696.3	802.9
65°	489.4	518.6	615.6	712.6
67.5°	411.5	444.2	528.8	613.4
70°	361.3	395.5	470.1	544.7
72.5°	308.5	343.6	407.6	471.6
75°	230.7	264.7	316.1	367.5
77.5°	163.2	190.7	228.2	265.6
80°	119.4	145.1	173.3	201.5
82.5°	83.6	100.0	120.9	141.8
85°	39.8	43.5	53.5	63.4
87.5°	17.4	16.4	15.5	14.6
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



TEST NUMBER: P1427978

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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: P1427978  
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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	18.27	19.07	19.28	20.09	21.45	17.09	17.90	18.10	18.91	20.27
	3H	20.44	21.15	21.46	22.18	23.56	18.14	18.86	19.16	19.89	21.26
	4H	21.25	21.93	22.28	22.96	24.34	18.38	19.06	19.41	20.09	21.48
	6H	21.71	22.34	22.75	23.37	24.77	18.52	19.14	19.56	20.18	21.58
	8H	21.86	22.46	22.91	23.51	24.90	18.58	19.17	19.63	20.22	21.62
	12H	21.92	22.48	22.97	23.53	24.95	18.59	19.15	19.64	20.20	21.61
4H	2H	18.69	19.37	19.73	20.40	21.79	17.77	18.45	18.81	19.48	20.87
	3H	20.94	21.51	21.99	22.56	23.96	18.99	19.56	20.04	20.62	22.02
	4H	21.81	22.33	22.87	23.38	24.80	19.28	19.80	20.34	20.85	22.27
	6H	22.37	22.81	23.43	23.88	25.30	19.48	19.92	20.54	21.00	22.41
	8H	22.57	22.98	23.63	24.05	25.48	19.57	19.98	20.63	21.05	22.48
	12H	22.65	23.02	23.73	24.10	25.54	19.59	19.96	20.67	21.04	22.48
8H	4H	21.83	22.24	22.89	23.31	24.74	19.51	19.92	20.57	20.99	22.42
	6H	22.45	22.80	23.54	23.91	25.34	19.77	20.12	20.86	21.22	22.65
	8H	22.72	23.02	23.81	24.11	25.56	19.92	20.22	21.02	21.31	22.76
	12H	22.85	23.11	23.95	24.20	25.69	19.98	20.24	21.08	21.33	22.82
12H	4H	21.78	22.15	22.86	23.23	24.67	19.50	19.88	20.58	20.96	22.39
	6H	22.43	22.73	23.53	23.82	25.27	19.81	20.11	20.90	21.20	22.65
	8H	22.70	22.96	23.80	24.05	25.54	19.97	20.23	21.07	21.32	22.81