

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: P1428316

Luminaire Tested: SQ2W-PR1-K-150U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428316  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-150U-100D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

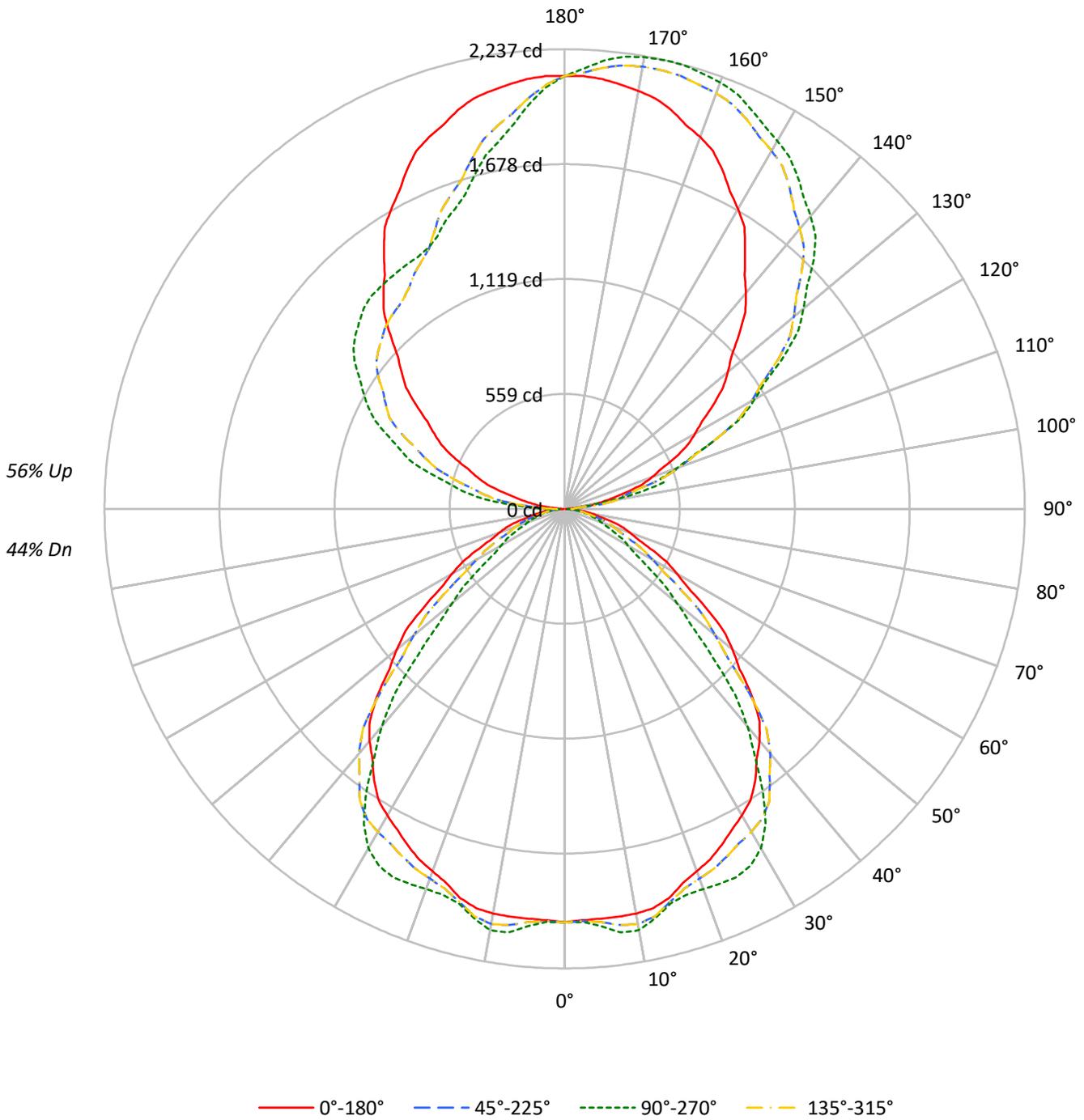
Lumens per Lamp: N/A  
Luminaire Lumens: 11001.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.7  
Input Voltage (V): 120  
Input Current (Ain): 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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33				
3	81	72	65	60	74	67	61	56	56	51	48	46	43	40	37	34	33	28				
4	75	64	57	51	68	59	53	48	50	45	41	41	38	35	33	31	29	25				
5	69	57	50	44	63	53	46	41	45	40	36	37	33	30	30	27	25	22				
6	63	52	44	38	58	48	41	36	40	35	31	34	30	27	27	24	22	19				
7	58	47	39	34	54	43	36	32	37	31	28	31	27	24	25	22	20	17				
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18	16				
9	51	39	31	26	46	36	29	25	31	26	22	26	22	19	21	18	16	14				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	20	17	15	13				

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

	0°	90°	180°	270°
0°	32495	32495	32495	32495
5°	32453	33051	32453	33051
10°	32794	34140	32794	34140
15°	32783	33230	32783	33230
20°	32254	33839	32254	33839
25°	32163	35234	32163	35234
30°	32130	35571	32130	35571
35°	31824	33119	31824	33119
40°	31090	29145	31090	29145
45°	29418	23048	29418	23048
50°	26746	17882	26746	17882
55°	23504	13917	23504	13917
60°	20337	11460	20337	11460
65°	17558	10032	17558	10032
70°	15786	8908	15786	8908
75°	14460	8191	14460	8191
80°	12589	8015	12589	8015
85°	9114	3798	9114	3798

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 31583 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.4	1.8
10°-20°	562.7	5.1
20°-30°	869.8	7.9
30°-40°	1046.0	9.5
40°-50°	939.3	8.5
50°-60°	629.4	5.7
60°-70°	366.1	3.3
70°-80°	188.1	1.7
80°-90°	55.1	0.5
90°-100°	167.6	1.5
100°-110°	488.9	4.4
110°-120°	797.8	7.3
120°-130°	1012.4	9.2
130°-140°	1083.3	9.8
140°-150°	1011.5	9.2
150°-160°	832.4	7.6
160°-170°	558.2	5.1
170°-180°	198.2	1.8
0°-30°	1626.8	14.8
0°-40°	2672.8	24.3
0°-60°	4241.4	38.6
0°-90°	4850.7	44.1
90°-120°	1454.3	13.2
90°-150°	4561.5	41.5
90°-180°	6150.0	55.9
0°-180°	11001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2013	2013	2013	2013	2013	
5°	2002	2039	2002	2039	2002	191
15°	1961	1988	1961	1988	1961	551
25°	1805	1978	1805	1978	1805	833
35°	1615	1680	1615	1680	1615	1007
45°	1288	1009	1288	1009	1288	986
55°	835	494	835	494	835	750
65°	460	263	460	263	460	465
75°	232	131	232	131	232	246
85°	49	20	49	20	49	61
90°	6	47	6	92	6	7
95°	66	49	66	287	66	80
105°	311	498	311	685	311	330
115°	596	826	596	1017	596	587
125°	881	1308	881	1247	881	788
135°	1198	1713	1198	1381	1198	926
145°	1530	1974	1530	1411	1530	957
155°	1817	2145	1817	1464	1817	835
165°	2008	2236	2008	1685	2008	565
175°	2100	2189	2100	1977	2100	199
180°	2106	2106	2106	2106	2106	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6
2.5°	2004.4	2015.4	2026.3	2021.4	2011.2	2006.4	2007.2	2008.3	2010.4	2012.6	2010.4
5°	2002.4	2017.9	2033.4	2029.7	2019.7	2015.6	2017.4	2021.1	2030.2	2039.3	2030.2
7.5°	2002.0	2024.0	2046.1	2047.8	2042.7	2042.8	2048.1	2055.0	2067.1	2079.1	2067.1
10°	2000.3	2026.8	2053.2	2057.1	2053.4	2052.1	2053.0	2056.9	2069.6	2082.4	2069.6
12.5°	1990.5	2021.3	2052.1	2048.9	2034.3	2026.4	2025.1	2025.8	2032.8	2039.7	2032.8
15°	1961.3	1997.8	2034.3	2019.5	1987.6	1973.0	1975.7	1978.9	1983.4	1988.0	1983.4
17.5°	1910.0	1948.2	1986.3	1973.0	1942.5	1932.2	1942.1	1951.7	1960.6	1969.5	1960.6
20°	1877.2	1914.6	1952.0	1942.9	1918.3	1912.3	1925.1	1938.5	1954.0	1969.5	1954.0
22.5°	1847.7	1885.1	1922.4	1916.6	1896.4	1895.2	1913.1	1931.8	1953.1	1974.5	1953.1
25°	1805.4	1838.2	1871.1	1871.8	1861.7	1871.8	1901.8	1930.3	1954.0	1977.8	1954.0
27.5°	1761.1	1780.4	1799.8	1812.5	1823.1	1848.7	1889.4	1924.0	1940.6	1957.2	1940.6
30°	1723.4	1736.1	1748.9	1772.6	1799.9	1831.4	1867.0	1895.2	1901.6	1908.0	1901.6
32.5°	1682.3	1690.0	1697.6	1731.0	1773.0	1803.3	1822.1	1834.1	1825.9	1817.7	1825.9
35°	1614.6	1621.0	1627.4	1670.0	1724.7	1744.8	1730.2	1714.9	1697.6	1680.3	1697.6
37.5°	1534.2	1547.3	1560.5	1595.2	1637.1	1636.8	1594.1	1557.1	1537.2	1517.4	1537.2
40°	1475.1	1497.0	1518.9	1542.1	1565.8	1545.8	1481.9	1428.4	1405.6	1382.8	1405.6
42.5°	1402.9	1437.9	1472.9	1478.1	1473.4	1430.3	1349.0	1281.0	1253.1	1225.2	1253.1
45°	1288.4	1335.8	1383.2	1356.1	1304.1	1233.9	1145.5	1071.4	1040.4	1009.4	1040.4
47.5°	1153.4	1202.1	1250.8	1199.6	1115.2	1033.5	954.5	888.1	859.1	830.1	859.1
50°	1064.8	1104.0	1143.2	1085.3	995.0	913.0	839.1	775.7	743.8	711.9	743.8
52.5°	974.5	1002.8	1031.0	973.7	887.8	807.9	734.1	671.4	642.4	613.4	642.4
55°	835.0	849.6	864.2	811.1	735.4	662.4	592.2	534.6	514.5	494.4	514.5
57.5°	707.0	716.3	725.6	675.3	605.0	540.1	480.5	432.1	417.3	402.5	417.3
60°	629.8	636.2	642.6	591.5	521.3	463.0	416.5	378.6	366.8	354.9	366.8
62.5°	559.3	564.2	569.1	519.9	452.6	400.4	363.4	333.4	324.5	315.5	324.5
65°	459.6	464.1	468.7	426.7	369.3	326.4	298.2	275.4	269.0	262.6	269.0
67.5°	380.4	382.7	385.1	350.6	303.7	269.1	246.9	228.7	222.7	216.6	222.7
70°	334.4	335.3	336.2	305.7	264.7	234.1	214.1	197.9	193.3	188.7	193.3
72.5°	293.4	292.1	290.8	263.6	227.6	201.5	185.1	172.0	168.9	165.8	168.9
75°	231.8	229.1	226.4	203.8	174.6	154.6	143.6	135.0	133.1	131.3	133.1
77.5°	173.2	170.2	167.3	148.5	124.5	110.6	107.0	104.2	104.2	104.2	104.2
80°	135.4	131.8	128.1	113.5	95.3	86.2	86.2	86.2	86.2	86.2	86.2
82.5°	100.9	95.8	90.7	81.8	71.6	66.5	66.5	66.3	65.6	64.8	65.6
85°	49.2	44.7	40.1	39.0	39.0	36.2	30.8	26.0	23.3	20.5	23.3
87.5°	14.4	16.1	18.2	17.2	14.8	13.4	13.4	13.9	14.3	14.3	14.3
90°	6.4	14.9	25.5	34.0	40.4	42.6	42.6	44.7	46.8	46.8	46.8
92.5°	23.4	37.0	37.4	37.4	45.5	49.4	52.8	53.2	55.3	55.3	55.3
95°	66.0	72.3	108.5	106.4	72.3	57.4	48.9	48.9	48.9	48.9	48.9
97.5°	126.0	135.3	141.3	189.4	200.0	193.2	157.4	132.3	118.3	111.9	118.3
100°	178.7	183.0	195.7	197.9	251.1	302.1	276.6	244.7	234.0	227.7	234.0
102.5°	231.5	234.0	253.6	262.6	274.9	303.8	392.3	382.6	375.3	374.0	375.3
105°	310.6	312.8	348.9	366.0	374.5	374.5	372.3	414.9	483.0	497.9	483.0
107.5°	395.3	405.1	447.7	493.2	503.0	505.5	494.5	488.1	485.5	487.2	485.5
110°	453.2	468.1	519.2	576.6	591.5	595.8	591.5	585.1	580.9	580.9	580.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	509.4	531.1	588.9	654.9	680.0	692.8	683.4	678.7	674.5	677.9	674.5
115°	595.8	627.7	704.3	772.3	823.4	829.8	827.7	827.7	825.5	825.5	825.5
117.5°	675.8	726.8	812.8	891.9	951.1	968.1	976.6	974.1	971.5	975.8	971.5
120°	731.9	791.5	889.4	978.7	1036.2	1061.7	1070.2	1066.0	1070.2	1066.0	1070.2
122.5°	791.5	864.7	960.9	1053.6	1121.3	1150.2	1160.4	1161.3	1162.1	1159.6	1162.1
125°	880.9	970.2	1083.0	1178.7	1248.9	1283.0	1291.5	1293.6	1297.9	1308.5	1297.9
127.5°	971.1	1072.4	1196.2	1288.5	1360.4	1401.7	1414.9	1419.6	1428.5	1433.2	1428.5
130°	1034.1	1148.9	1274.5	1361.7	1431.9	1476.6	1500.0	1506.4	1517.0	1514.9	1517.0
132.5°	1100.4	1220.4	1347.7	1438.3	1503.4	1551.5	1571.5	1589.8	1593.6	1596.6	1593.6
135°	1197.9	1327.7	1455.3	1544.7	1606.4	1653.2	1678.7	1695.8	1706.4	1712.8	1706.4
137.5°	1300.4	1437.5	1560.0	1639.6	1701.7	1742.1	1771.1	1789.0	1800.0	1805.1	1800.0
140°	1370.2	1502.1	1621.3	1704.3	1759.6	1800.0	1825.5	1846.8	1859.6	1859.6	1859.6
142.5°	1436.6	1566.8	1682.6	1765.5	1814.1	1851.1	1878.3	1894.5	1909.0	1909.0	1909.0
145°	1529.8	1659.6	1766.0	1849.0	1889.4	1923.4	1953.2	1966.0	1974.5	1974.5	1974.5
147.5°	1627.2	1742.1	1839.2	1918.7	1952.8	1992.8	2016.2	2026.4	2037.0	2032.4	2037.0
150°	1685.1	1791.5	1885.1	1959.6	1993.6	2031.9	2055.3	2063.8	2074.5	2068.1	2074.5
152.5°	1741.3	1842.6	1927.7	1997.0	2026.0	2064.3	2091.1	2099.6	2106.8	2102.1	2106.8
155°	1817.0	1906.4	1985.1	2049.0	2074.5	2110.7	2136.2	2146.8	2155.3	2144.7	2155.3
157.5°	1884.7	1961.7	2030.2	2089.0	2116.2	2147.3	2171.1	2184.3	2192.8	2188.1	2192.8
160°	1925.6	1995.8	2057.5	2112.8	2138.3	2166.0	2191.5	2206.4	2214.9	2208.5	2214.9
162.5°	1959.6	2023.0	2081.3	2131.5	2153.6	2177.9	2208.5	2221.7	2230.2	2222.1	2230.2
165°	2008.5	2059.6	2110.7	2153.2	2172.4	2191.5	2223.4	2238.3	2244.7	2236.2	2244.7
167.5°	2045.6	2084.7	2126.0	2162.6	2176.6	2195.3	2227.3	2239.6	2247.7	2237.0	2247.7
170°	2066.0	2100.0	2136.2	2166.0	2176.6	2193.6	2225.6	2236.2	2242.6	2231.9	2242.6
172.5°	2083.0	2108.5	2137.9	2164.3	2169.8	2183.4	2213.6	2224.3	2229.0	2220.0	2229.0
175°	2100.0	2114.9	2136.2	2153.2	2151.1	2159.6	2185.1	2193.6	2202.1	2189.4	2202.1
177.5°	2108.1	2114.9	2121.7	2131.9	2125.1	2125.1	2143.9	2149.0	2150.7	2143.9	2150.7
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6
2.5°	2008.3	2007.2	2006.4	2011.2	2021.4	2026.3	2015.4	2004.4	2015.4	2026.3	2021.4
5°	2021.1	2017.4	2015.6	2019.7	2029.7	2033.4	2017.9	2002.4	2017.9	2033.4	2029.7
7.5°	2055.0	2048.1	2042.8	2042.7	2047.8	2046.1	2024.0	2002.0	2024.0	2046.1	2047.8
10°	2056.9	2053.0	2052.1	2053.4	2057.1	2053.2	2026.8	2000.3	2026.8	2053.2	2057.1
12.5°	2025.8	2025.1	2026.4	2034.3	2048.9	2052.1	2021.3	1990.5	2021.3	2052.1	2048.9
15°	1978.9	1975.7	1973.0	1987.6	2019.5	2034.3	1997.8	1961.3	1997.8	2034.3	2019.5
17.5°	1951.7	1942.1	1932.2	1942.5	1973.0	1986.3	1948.2	1910.0	1948.2	1986.3	1973.0
20°	1938.5	1925.1	1912.3	1918.3	1942.9	1952.0	1914.6	1877.2	1914.6	1952.0	1942.9
22.5°	1931.8	1913.1	1895.2	1896.4	1916.6	1922.4	1885.1	1847.7	1885.1	1922.4	1916.6
25°	1930.3	1901.8	1871.8	1861.7	1871.8	1871.1	1838.2	1805.4	1838.2	1871.1	1871.8
27.5°	1924.0	1889.4	1848.7	1823.1	1812.5	1799.8	1780.4	1761.1	1780.4	1799.8	1812.5
30°	1895.2	1867.0	1831.4	1799.9	1772.6	1748.9	1736.1	1723.4	1736.1	1748.9	1772.6
32.5°	1834.1	1822.1	1803.3	1773.0	1731.0	1697.6	1690.0	1682.3	1690.0	1697.6	1731.0
35°	1714.9	1730.2	1744.8	1724.7	1670.0	1627.4	1621.0	1614.6	1621.0	1627.4	1670.0
37.5°	1557.1	1594.1	1636.8	1637.1	1595.2	1560.5	1547.3	1534.2	1547.3	1560.5	1595.2
40°	1428.4	1481.9	1545.8	1565.8	1542.1	1518.9	1497.0	1475.1	1497.0	1518.9	1542.1
42.5°	1281.0	1349.0	1430.3	1473.4	1478.1	1472.9	1437.9	1402.9	1437.9	1472.9	1478.1
45°	1071.4	1145.5	1233.9	1304.1	1356.1	1383.2	1335.8	1288.4	1335.8	1383.2	1356.1
47.5°	888.1	954.5	1033.5	1115.2	1199.6	1250.8	1202.1	1153.4	1202.1	1250.8	1199.6
50°	775.7	839.1	913.0	995.0	1085.3	1143.2	1104.0	1064.8	1104.0	1143.2	1085.3
52.5°	671.4	734.1	807.9	887.8	973.7	1031.0	1002.8	974.5	1002.8	1031.0	973.7
55°	534.6	592.2	662.4	735.4	811.1	864.2	849.6	835.0	849.6	864.2	811.1
57.5°	432.1	480.5	540.1	605.0	675.3	725.6	716.3	707.0	716.3	725.6	675.3
60°	378.6	416.5	463.0	521.3	591.5	642.6	636.2	629.8	636.2	642.6	591.5
62.5°	333.4	363.4	400.4	452.6	519.9	569.1	564.2	559.3	564.2	569.1	519.9
65°	275.4	298.2	326.4	369.3	426.7	468.7	464.1	459.6	464.1	468.7	426.7
67.5°	228.7	246.9	269.1	303.7	350.6	385.1	382.7	380.4	382.7	385.1	350.6
70°	197.9	214.1	234.1	264.7	305.7	336.2	335.3	334.4	335.3	336.2	305.7
72.5°	172.0	185.1	201.5	227.6	263.6	290.8	292.1	293.4	292.1	290.8	263.6
75°	135.0	143.6	154.6	174.6	203.8	226.4	229.1	231.8	229.1	226.4	203.8
77.5°	104.2	107.0	110.6	124.5	148.5	167.3	170.2	173.2	170.2	167.3	148.5
80°	86.2	86.2	86.2	95.3	113.5	128.1	131.8	135.4	131.8	128.1	113.5
82.5°	66.3	66.5	66.5	71.6	81.8	90.7	95.8	100.9	95.8	90.7	81.8
85°	26.0	30.8	36.2	39.0	39.0	40.1	44.7	49.2	44.7	40.1	39.0
87.5°	13.9	13.4	13.4	14.8	17.2	18.2	16.1	14.4	16.1	17.8	18.1
90°	44.7	42.6	42.6	40.4	34.0	25.5	14.9	6.4	14.9	23.4	38.3
92.5°	53.2	52.8	49.4	45.5	37.4	37.4	37.0	23.4	40.4	57.4	82.6
95°	48.9	48.9	57.4	72.3	106.4	108.5	72.3	66.0	93.6	131.9	166.0
97.5°	132.3	157.4	193.2	200.0	189.4	141.3	135.3	126.0	171.5	209.4	264.3
100°	244.7	276.6	302.1	251.1	197.9	195.7	183.0	178.7	227.7	263.8	317.0
102.5°	382.6	392.3	303.8	274.9	262.6	253.6	234.0	231.5	280.4	330.2	374.9
105°	414.9	372.3	374.5	374.5	366.0	348.9	312.8	310.6	366.0	423.4	478.7
107.5°	488.1	494.5	505.5	503.0	493.2	447.7	405.1	395.3	445.1	514.0	574.9
110°	585.1	591.5	595.8	591.5	576.6	519.2	468.1	453.2	497.9	570.2	636.2



TEST NUMBER: P1428316

CATALOG NUMBER: SQ2W-PR1-K-150U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	678.7	683.4	692.8	680.0	654.9	588.9	531.1	509.4	554.0	628.1	695.8
115°	827.7	827.7	829.8	823.4	772.3	704.3	627.7	595.8	634.0	702.1	776.6
117.5°	974.1	976.6	968.1	951.1	891.9	812.8	726.8	675.8	706.0	777.9	854.5
120°	1066.0	1070.2	1061.7	1036.2	978.7	889.4	791.5	731.9	755.3	825.5	902.1
122.5°	1161.3	1160.4	1150.2	1121.3	1053.6	960.9	864.7	791.5	801.3	866.4	941.3
125°	1293.6	1291.5	1283.0	1248.9	1178.7	1083.0	970.2	880.9	868.1	923.4	1000.0
127.5°	1419.6	1414.9	1401.7	1360.4	1288.5	1196.2	1072.4	971.1	942.6	977.5	1047.7
130°	1506.4	1500.0	1476.6	1431.9	1361.7	1274.5	1148.9	1034.1	993.6	1014.9	1076.6
132.5°	1589.8	1571.5	1551.5	1503.4	1438.3	1347.7	1220.4	1100.4	1044.7	1054.1	1102.1
135°	1695.8	1678.7	1653.2	1606.4	1544.7	1455.3	1327.7	1197.9	1121.3	1112.8	1140.4
137.5°	1789.0	1771.1	1742.1	1701.7	1639.6	1560.0	1437.5	1300.4	1203.8	1175.3	1186.0
140°	1846.8	1825.5	1800.0	1759.6	1704.3	1621.3	1502.1	1370.2	1261.7	1221.3	1214.9
142.5°	1894.5	1878.3	1851.1	1814.1	1765.5	1682.6	1566.8	1436.6	1321.3	1268.9	1254.1
145°	1966.0	1953.2	1923.4	1889.4	1849.0	1766.0	1659.6	1529.8	1414.9	1346.8	1314.9
147.5°	2026.4	2016.2	1992.8	1952.8	1918.7	1839.2	1742.1	1627.2	1509.4	1425.1	1383.8
150°	2063.8	2055.3	2031.9	1993.6	1959.6	1885.1	1791.5	1685.1	1572.4	1483.0	1429.8
152.5°	2099.6	2091.1	2064.3	2026.0	1997.0	1927.7	1842.6	1741.3	1626.8	1537.5	1482.6
155°	2146.8	2136.2	2110.7	2074.5	2049.0	1985.1	1906.4	1817.0	1719.2	1625.5	1563.8
157.5°	2184.3	2171.1	2147.3	2116.2	2089.0	2030.2	1961.7	1884.7	1799.2	1709.8	1646.8
160°	2206.4	2191.5	2166.0	2138.3	2112.8	2057.5	1995.8	1925.6	1846.8	1766.0	1697.9
162.5°	2221.7	2208.5	2177.9	2153.6	2131.5	2081.3	2023.0	1959.6	1889.4	1818.7	1755.8
165°	2238.3	2223.4	2191.5	2172.4	2153.2	2110.7	2059.6	2008.5	1949.0	1891.5	1840.4
167.5°	2239.6	2227.3	2195.3	2176.6	2162.6	2126.0	2084.7	2045.6	1999.2	1954.1	1911.5
170°	2236.2	2225.6	2193.6	2176.6	2166.0	2136.2	2100.0	2066.0	2029.8	1991.5	1957.5
172.5°	2224.3	2213.6	2183.4	2169.8	2164.3	2137.9	2108.5	2083.0	2051.9	2023.8	1996.6
175°	2193.6	2185.1	2159.6	2151.1	2153.2	2136.2	2114.9	2100.0	2080.9	2063.8	2049.0
177.5°	2149.0	2143.9	2125.1	2125.1	2131.9	2121.7	2114.9	2108.1	2099.6	2094.5	2089.4
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6
2.5°	2011.2	2006.4	2007.2	2008.3	2010.4	2012.6	2010.4	2008.3	2007.2	2006.4	2011.2
5°	2019.7	2015.6	2017.4	2021.1	2030.2	2039.3	2030.2	2021.1	2017.4	2015.6	2019.7
7.5°	2042.7	2042.8	2048.1	2055.0	2067.1	2079.1	2067.1	2055.0	2048.1	2042.8	2042.7
10°	2053.4	2052.1	2053.0	2056.9	2069.6	2082.4	2069.6	2056.9	2053.0	2052.1	2053.4
12.5°	2034.3	2026.4	2025.1	2025.8	2032.8	2039.7	2032.8	2025.8	2025.1	2026.4	2034.3
15°	1987.6	1973.0	1975.7	1978.9	1983.4	1988.0	1983.4	1978.9	1975.7	1973.0	1987.6
17.5°	1942.5	1932.2	1942.1	1951.7	1960.6	1969.5	1960.6	1951.7	1942.1	1932.2	1942.5
20°	1918.3	1912.3	1925.1	1938.5	1954.0	1969.5	1954.0	1938.5	1925.1	1912.3	1918.3
22.5°	1896.4	1895.2	1913.1	1931.8	1953.1	1974.5	1953.1	1931.8	1913.1	1895.2	1896.4
25°	1861.7	1871.8	1901.8	1930.3	1954.0	1977.8	1954.0	1930.3	1901.8	1871.8	1861.7
27.5°	1823.1	1848.7	1889.4	1924.0	1940.6	1957.2	1940.6	1924.0	1889.4	1848.7	1823.1
30°	1799.9	1831.4	1867.0	1895.2	1901.6	1908.0	1901.6	1895.2	1867.0	1831.4	1799.9
32.5°	1773.0	1803.3	1822.1	1834.1	1825.9	1817.7	1825.9	1834.1	1822.1	1803.3	1773.0
35°	1724.7	1744.8	1730.2	1714.9	1697.6	1680.3	1697.6	1714.9	1730.2	1744.8	1724.7
37.5°	1637.1	1636.8	1594.1	1557.1	1537.2	1517.4	1537.2	1557.1	1594.1	1636.8	1637.1
40°	1565.8	1545.8	1481.9	1428.4	1405.6	1382.8	1405.6	1428.4	1481.9	1545.8	1565.8
42.5°	1473.4	1430.3	1349.0	1281.0	1253.1	1225.2	1253.1	1281.0	1349.0	1430.3	1473.4
45°	1304.1	1233.9	1145.5	1071.4	1040.4	1009.4	1040.4	1071.4	1145.5	1233.9	1304.1
47.5°	1115.2	1033.5	954.5	888.1	859.1	830.1	859.1	888.1	954.5	1033.5	1115.2
50°	995.0	913.0	839.1	775.7	743.8	711.9	743.8	775.7	839.1	913.0	995.0
52.5°	887.8	807.9	734.1	671.4	642.4	613.4	642.4	671.4	734.1	807.9	887.8
55°	735.4	662.4	592.2	534.6	514.5	494.4	514.5	534.6	592.2	662.4	735.4
57.5°	605.0	540.1	480.5	432.1	417.3	402.5	417.3	432.1	480.5	540.1	605.0
60°	521.3	463.0	416.5	378.6	366.8	354.9	366.8	378.6	416.5	463.0	521.3
62.5°	452.6	400.4	363.4	333.4	324.5	315.5	324.5	333.4	363.4	400.4	452.6
65°	369.3	326.4	298.2	275.4	269.0	262.6	269.0	275.4	298.2	326.4	369.3
67.5°	303.7	269.1	246.9	228.7	222.7	216.6	222.7	228.7	246.9	269.1	303.7
70°	264.7	234.1	214.1	197.9	193.3	188.7	193.3	197.9	214.1	234.1	264.7
72.5°	227.6	201.5	185.1	172.0	168.9	165.8	168.9	172.0	185.1	201.5	227.6
75°	174.6	154.6	143.6	135.0	133.1	131.3	133.1	135.0	143.6	154.6	174.6
77.5°	124.5	110.6	107.0	104.2	104.2	104.2	104.2	104.2	107.0	110.6	124.5
80°	95.3	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	95.3
82.5°	71.6	66.5	66.5	66.3	65.6	64.8	65.6	66.3	66.5	66.5	71.6
85°	39.0	36.2	30.8	26.0	23.3	20.5	23.3	26.0	30.8	36.2	39.0
87.5°	16.5	17.7	20.7	22.4	24.1	23.2	24.1	22.4	20.7	17.7	16.5
90°	48.9	63.8	78.7	87.2	95.7	91.5	95.7	87.2	78.7	63.8	48.9
92.5°	98.3	123.4	141.7	157.0	163.8	163.0	163.8	157.0	141.7	123.4	98.3
95°	197.9	227.7	257.4	278.7	291.5	287.2	291.5	278.7	257.4	227.7	197.9
97.5°	305.1	345.1	378.3	398.3	411.1	419.6	411.1	398.3	378.3	345.1	305.1
100°	376.6	414.9	453.2	476.6	497.9	506.4	497.9	476.6	453.2	414.9	376.6
102.5°	434.5	484.7	526.4	551.5	569.4	577.9	569.4	551.5	526.4	484.7	434.5
105°	529.8	583.0	627.7	659.6	678.7	685.1	678.7	659.6	627.7	583.0	529.8
107.5°	625.1	680.0	721.3	756.6	780.0	793.6	780.0	756.6	721.3	680.0	625.1
110°	700.0	744.7	789.4	821.3	844.7	853.2	844.7	821.3	789.4	744.7	700.0



TEST NUMBER: P1428316

CATALOG NUMBER: SQ2W-PR1-K-150U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	763.0	812.8	857.5	889.4	916.2	928.1	916.2	889.4	857.5	812.8	763.0
115°	851.1	917.0	957.5	987.2	1006.4	1017.0	1006.4	987.2	957.5	917.0	851.1
117.5°	924.3	993.2	1037.5	1060.4	1069.4	1077.0	1069.4	1060.4	1037.5	993.2	924.3
120°	970.2	1034.1	1085.1	1114.9	1125.5	1129.8	1125.5	1114.9	1085.1	1034.1	970.2
122.5°	1012.8	1073.2	1122.6	1159.2	1176.6	1180.9	1176.6	1159.2	1122.6	1073.2	1012.8
125°	1072.4	1129.8	1180.9	1217.0	1236.2	1246.8	1236.2	1217.0	1180.9	1129.8	1072.4
127.5°	1124.3	1186.4	1233.2	1266.0	1284.7	1293.2	1284.7	1266.0	1233.2	1186.4	1124.3
130°	1153.2	1217.0	1263.8	1300.0	1317.0	1325.5	1317.0	1300.0	1263.8	1217.0	1153.2
132.5°	1175.3	1242.6	1291.1	1323.8	1342.6	1351.1	1342.6	1323.8	1291.1	1242.6	1175.3
135°	1202.1	1272.4	1323.4	1355.3	1372.4	1380.9	1372.4	1355.3	1323.4	1272.4	1202.1
137.5°	1225.5	1289.4	1342.6	1376.2	1391.5	1397.0	1391.5	1376.2	1342.6	1289.4	1225.5
140°	1242.6	1297.9	1351.1	1383.0	1400.0	1402.1	1400.0	1383.0	1351.1	1297.9	1242.6
142.5°	1264.7	1308.1	1354.5	1386.4	1403.4	1407.2	1403.4	1386.4	1354.5	1308.1	1264.7
145°	1304.3	1329.8	1361.7	1391.5	1406.4	1410.7	1406.4	1391.5	1361.7	1329.8	1304.3
147.5°	1354.1	1362.1	1378.7	1398.3	1412.8	1415.8	1412.8	1398.3	1378.7	1362.1	1354.1
150°	1391.5	1389.4	1395.8	1408.5	1421.3	1419.2	1421.3	1408.5	1395.8	1389.4	1391.5
152.5°	1434.1	1421.7	1421.3	1427.2	1433.2	1432.8	1433.2	1427.2	1421.3	1421.7	1434.1
155°	1506.4	1483.0	1470.2	1466.0	1466.0	1463.8	1466.0	1466.0	1470.2	1483.0	1506.4
157.5°	1586.0	1553.2	1534.1	1523.8	1520.9	1516.2	1520.9	1523.8	1534.1	1553.2	1586.0
160°	1640.4	1604.3	1585.1	1568.1	1561.7	1555.3	1561.7	1568.1	1585.1	1604.3	1640.4
162.5°	1691.5	1657.0	1636.2	1620.9	1614.5	1604.7	1614.5	1620.9	1636.2	1657.0	1691.5
165°	1774.5	1738.3	1714.9	1702.1	1693.6	1685.1	1693.6	1702.1	1714.9	1738.3	1774.5
167.5°	1857.5	1817.9	1802.6	1788.1	1780.0	1764.7	1780.0	1788.1	1802.6	1817.9	1857.5
170°	1908.5	1872.4	1863.8	1851.1	1836.2	1819.2	1836.2	1851.1	1863.8	1872.4	1908.5
172.5°	1952.8	1928.5	1920.0	1907.3	1902.6	1889.0	1902.6	1907.3	1920.0	1928.5	1952.8
175°	2017.0	1997.9	1997.9	1995.8	1989.4	1976.6	1989.4	1995.8	1997.9	1997.9	2017.0
177.5°	2070.7	2060.4	2067.3	2067.3	2065.6	2053.6	2065.6	2067.3	2067.3	2060.4	2070.7
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



TEST NUMBER: P1428316

CATALOG NUMBER: SQ2W-PR1-K-150U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2012.6	2012.6	2012.6	2012.6
2.5°	2021.4	2026.3	2015.4	2004.4
5°	2029.7	2033.4	2017.9	2002.4
7.5°	2047.8	2046.1	2024.0	2002.0
10°	2057.1	2053.2	2026.8	2000.3
12.5°	2048.9	2052.1	2021.3	1990.5
15°	2019.5	2034.3	1997.8	1961.3
17.5°	1973.0	1986.3	1948.2	1910.0
20°	1942.9	1952.0	1914.6	1877.2
22.5°	1916.6	1922.4	1885.1	1847.7
25°	1871.8	1871.1	1838.2	1805.4
27.5°	1812.5	1799.8	1780.4	1761.1
30°	1772.6	1748.9	1736.1	1723.4
32.5°	1731.0	1697.6	1690.0	1682.3
35°	1670.0	1627.4	1621.0	1614.6
37.5°	1595.2	1560.5	1547.3	1534.2
40°	1542.1	1518.9	1497.0	1475.1
42.5°	1478.1	1472.9	1437.9	1402.9
45°	1356.1	1383.2	1335.8	1288.4
47.5°	1199.6	1250.8	1202.1	1153.4
50°	1085.3	1143.2	1104.0	1064.8
52.5°	973.7	1031.0	1002.8	974.5
55°	811.1	864.2	849.6	835.0
57.5°	675.3	725.6	716.3	707.0
60°	591.5	642.6	636.2	629.8
62.5°	519.9	569.1	564.2	559.3
65°	426.7	468.7	464.1	459.6
67.5°	350.6	385.1	382.7	380.4
70°	305.7	336.2	335.3	334.4
72.5°	263.6	290.8	292.1	293.4
75°	203.8	226.4	229.1	231.8
77.5°	148.5	167.3	170.2	173.2
80°	113.5	128.1	131.8	135.4
82.5°	81.8	90.7	95.8	100.9
85°	39.0	40.1	44.7	49.2
87.5°	18.1	17.8	16.1	14.4
90°	38.3	23.4	14.9	6.4
92.5°	82.6	57.4	40.4	23.4
95°	166.0	131.9	93.6	66.0
97.5°	264.3	209.4	171.5	126.0
100°	317.0	263.8	227.7	178.7
102.5°	374.9	330.2	280.4	231.5
105°	478.7	423.4	366.0	310.6
107.5°	574.9	514.0	445.1	395.3
110°	636.2	570.2	497.9	453.2



TEST NUMBER: P1428316

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	695.8	628.1	554.0	509.4
115°	776.6	702.1	634.0	595.8
117.5°	854.5	777.9	706.0	675.8
120°	902.1	825.5	755.3	731.9
122.5°	941.3	866.4	801.3	791.5
125°	1000.0	923.4	868.1	880.9
127.5°	1047.7	977.5	942.6	971.1
130°	1076.6	1014.9	993.6	1034.1
132.5°	1102.1	1054.1	1044.7	1100.4
135°	1140.4	1112.8	1121.3	1197.9
137.5°	1186.0	1175.3	1203.8	1300.4
140°	1214.9	1221.3	1261.7	1370.2
142.5°	1254.1	1268.9	1321.3	1436.6
145°	1314.9	1346.8	1414.9	1529.8
147.5°	1383.8	1425.1	1509.4	1627.2
150°	1429.8	1483.0	1572.4	1685.1
152.5°	1482.6	1537.5	1626.8	1741.3
155°	1563.8	1625.5	1719.2	1817.0
157.5°	1646.8	1709.8	1799.2	1884.7
160°	1697.9	1766.0	1846.8	1925.6
162.5°	1755.8	1818.7	1889.4	1959.6
165°	1840.4	1891.5	1949.0	2008.5
167.5°	1911.5	1954.1	1999.2	2045.6
170°	1957.5	1991.5	2029.8	2066.0
172.5°	1996.6	2023.8	2051.9	2083.0
175°	2049.0	2063.8	2080.9	2100.0
177.5°	2089.4	2094.5	2099.6	2108.1
180°	2106.4	2106.4	2106.4	2106.4



TEST NUMBER: P1428316  
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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	18.18	18.96	19.20	19.98	21.34	14.55	15.33	15.57	16.35	17.71
	3H	19.39	20.08	20.41	21.11	22.48	15.71	16.40	16.73	17.43	18.81
	4H	19.87	20.52	20.90	21.55	22.94	16.17	16.83	17.21	17.86	19.24
	6H	20.16	20.76	21.21	21.80	23.19	16.51	17.11	17.55	18.14	19.54
	8H	20.26	20.83	21.31	21.88	23.28	16.64	17.22	17.69	18.27	19.66
	12H	20.30	20.84	21.35	21.89	23.30	16.67	17.22	17.73	18.26	19.67
4H	2H	18.28	18.93	19.32	19.96	21.35	15.25	15.91	16.30	16.94	18.33
	3H	19.73	20.27	20.78	21.33	22.73	16.60	17.15	17.65	18.20	19.60
	4H	20.36	20.85	21.41	21.90	23.32	17.14	17.64	18.20	18.69	20.11
	6H	20.78	21.21	21.85	22.28	23.70	17.57	18.00	18.64	19.07	20.49
	8H	20.94	21.34	22.01	22.40	23.83	17.76	18.15	18.82	19.22	20.65
	12H	21.00	21.36	22.09	22.44	23.88	17.80	18.16	18.88	19.24	20.67
8H	4H	20.38	20.77	21.44	21.84	23.27	17.47	17.86	18.53	18.93	20.36
	6H	20.90	21.23	21.99	22.34	23.77	18.00	18.33	19.09	19.44	20.87
	8H	21.14	21.43	22.24	22.52	23.96	18.27	18.55	19.36	19.65	21.09
	12H	21.25	21.51	22.35	22.59	24.08	18.36	18.61	19.46	19.70	21.18
12H	4H	20.33	20.69	21.41	21.77	23.20	17.48	17.84	18.57	18.92	20.36
	6H	20.89	21.18	21.99	22.27	23.72	18.08	18.36	19.17	19.46	20.90
	8H	21.14	21.40	22.24	22.48	23.97	18.36	18.62	19.46	19.70	21.19