

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: P1427977

Luminaire Tested: SQ2W-PH1-K-150U-100D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427977  
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-L840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

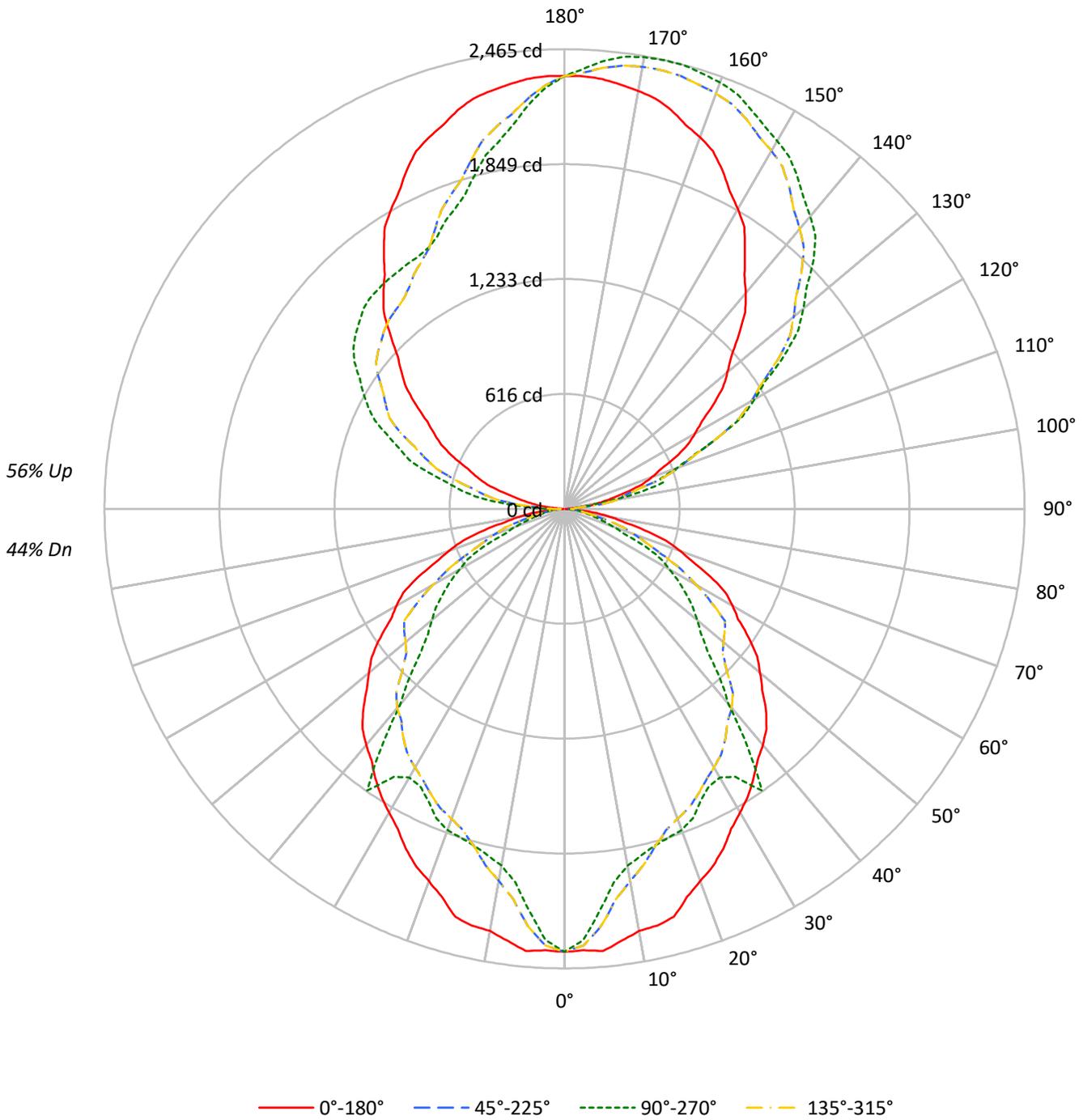
Lumens per Lamp: N/A  
Luminaire Lumens: 12038.5 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.7  
Input Voltage (V): 120  
Input Current (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	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°	38357	38357	38357	38357
5°	38576	35059	38576	35059
10°	37688	31870	37688	31870
15°	37858	31246	37858	31246
20°	36506	31498	36506	31498
25°	35838	30764	35838	30764
30°	35061	31015	35061	31015
35°	34794	36355	34794	36355
40°	34825	28822	34825	28822
45°	34839	24824	34839	24824
50°	34349	23279	34349	23279
55°	33914	22333	33914	22333
60°	33576	20947	33576	20947
65°	32989	18219	32989	18219
70°	31156	13020	31156	13020
75°	27779	9869	27779	9869
80°	22696	9251	22696	9251
85°	14246	6280	14246	6280

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 34839 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.0	1.7
10°-20°	549.8	4.6
20°-30°	806.1	6.7
30°-40°	976.1	8.1
40°-50°	959.9	8.0
50°-60°	834.9	6.9
60°-70°	580.7	4.8
70°-80°	275.4	2.3
80°-90°	70.3	0.6
90°-100°	184.7	1.5
100°-110°	538.6	4.5
110°-120°	879.0	7.3
120°-130°	1115.4	9.3
130°-140°	1193.5	9.9
140°-150°	1114.5	9.3
150°-160°	917.1	7.6
160°-170°	615.0	5.1
170°-180°	218.4	1.8
0°-30°	1565.0	13.0
0°-40°	2541.1	21.1
0°-60°	4336.0	36.0
0°-90°	5262.4	43.7
90°-120°	1602.3	13.3
90°-150°	5025.7	41.7
90°-180°	6776.0	56.3
0°-180°	12038.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2376	2376	2376	2376	2376	
5°	2380	2163	2380	2163	2380	224
15°	2265	1869	2265	1869	2265	631
25°	2012	1727	2012	1727	2012	925
35°	1765	1844	1765	1844	1765	1106
45°	1526	1087	1526	1087	1526	1173
55°	1205	793	1205	793	1205	1076
65°	864	477	864	477	864	848
75°	445	158	445	158	445	472
85°	77	34	77	34	77	103
90°	7	52	7	101	7	8
95°	73	54	73	316	73	88
105°	342	548	342	755	342	364
115°	656	910	656	1120	656	647
125°	970	1442	970	1374	970	868
135°	1320	1887	1320	1521	1320	1020
145°	1686	2175	1686	1554	1686	1055
155°	2002	2363	2002	1613	2002	920
165°	2213	2464	2213	1857	2213	623
175°	2314	2412	2314	2178	2314	220
180°	2321	2321	2321	2321	2321	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2.5°	2370.2	2381.5	2392.7	2376.9	2351.9	2334.7	2325.0	2317.4	2315.8	2314.2	2315.8
5°	2380.2	2379.2	2378.2	2331.2	2268.9	2222.2	2191.1	2167.2	2165.2	2163.2	2165.2
7.5°	2336.8	2305.6	2274.5	2211.4	2137.7	2083.6	2049.3	2023.1	2021.5	2019.9	2021.5
10°	2298.8	2251.6	2204.4	2133.0	2053.7	1998.4	1967.3	1943.9	1943.9	1943.9	1943.9
12.5°	2289.8	2215.2	2140.7	2062.5	1983.1	1931.9	1908.8	1892.7	1897.5	1902.3	1897.5
15°	2264.9	2152.4	2039.9	1960.5	1892.2	1855.0	1849.0	1847.2	1858.3	1869.3	1858.3
17.5°	2182.6	2061.5	1940.3	1870.5	1817.9	1798.0	1810.9	1823.7	1836.6	1849.4	1836.6
20°	2124.7	2005.2	1885.7	1821.1	1774.9	1763.8	1788.0	1809.1	1821.1	1833.2	1821.1
22.5°	2075.9	1954.8	1833.6	1776.5	1740.7	1736.1	1762.6	1784.1	1790.6	1797.0	1790.6
25°	2011.7	1875.1	1738.5	1696.8	1686.7	1693.3	1716.4	1733.0	1729.9	1726.9	1729.9
27.5°	1934.9	1792.2	1649.6	1622.8	1634.7	1647.6	1661.7	1672.7	1674.5	1676.3	1674.5
30°	1880.6	1738.0	1595.3	1574.0	1593.1	1609.6	1623.7	1637.5	1650.6	1663.6	1650.6
32.5°	1828.2	1680.7	1533.2	1517.9	1546.6	1577.7	1611.0	1643.5	1673.5	1703.4	1673.5
35°	1765.3	1611.6	1457.9	1445.9	1481.0	1526.3	1581.5	1647.6	1746.0	1844.5	1746.0
37.5°	1699.3	1534.6	1369.8	1364.4	1412.0	1459.6	1507.2	1550.8	1582.1	1613.5	1582.1
40°	1652.3	1479.5	1306.7	1306.5	1363.8	1423.0	1484.3	1512.2	1439.9	1367.5	1439.9
42.5°	1601.7	1428.9	1256.1	1251.0	1301.9	1367.2	1446.9	1476.2	1354.1	1231.9	1354.1
45°	1525.8	1345.9	1166.1	1159.6	1210.8	1247.0	1268.1	1262.0	1174.6	1087.2	1174.6
47.5°	1436.2	1264.9	1093.5	1092.1	1147.3	1151.3	1104.1	1060.2	1026.0	991.9	1026.0
50°	1367.5	1205.8	1044.0	1051.1	1114.4	1108.3	1033.0	971.0	948.9	926.8	948.9
52.5°	1300.6	1146.9	993.2	1011.9	1088.0	1076.0	975.7	896.8	881.9	867.1	881.9
55°	1204.8	1057.1	909.4	951.6	1057.1	1041.0	903.4	799.4	796.4	793.4	796.4
57.5°	1103.1	963.4	823.8	853.1	938.7	921.8	802.4	714.2	719.5	724.7	719.5
60°	1039.8	904.1	768.5	772.3	822.5	806.5	724.1	660.8	654.8	648.7	654.8
62.5°	972.9	843.7	714.5	695.7	713.8	694.9	639.1	595.7	589.7	583.6	589.7
65°	863.5	745.9	628.4	593.0	584.9	557.8	511.6	476.9	476.9	476.9	476.9
67.5°	743.2	640.7	538.3	498.6	480.0	453.0	417.9	385.5	361.4	337.2	361.4
70°	660.0	569.6	479.2	437.8	412.6	380.5	341.3	307.9	291.8	275.8	291.8
72.5°	571.4	493.9	416.3	373.9	343.1	311.8	279.8	251.3	232.8	214.3	232.8
75°	445.3	383.0	320.7	279.5	245.4	213.7	184.6	162.2	160.2	158.2	160.2
77.5°	321.9	276.5	231.1	197.7	168.4	146.4	131.7	120.8	121.0	121.2	121.0
80°	244.1	210.0	175.8	144.7	114.5	99.0	97.9	97.4	98.5	99.5	98.5
82.5°	171.8	146.5	121.2	101.3	83.2	74.8	76.2	77.4	77.6	77.8	77.6
85°	76.9	64.8	52.7	48.2	46.2	43.2	39.2	35.9	34.9	33.9	34.9
87.5°	17.7	18.8	20.3	20.2	19.2	18.4	18.4	18.9	19.4	19.4	19.4
90°	7.0	16.4	28.1	37.5	44.5	46.9	46.9	49.2	51.6	51.6	51.6
92.5°	25.8	40.8	41.3	41.3	50.2	54.4	58.1	58.6	60.9	60.9	60.9
95°	72.7	79.7	119.6	117.2	79.7	63.3	53.9	53.9	53.9	53.9	53.9
97.5°	138.8	149.1	155.7	208.6	220.4	212.9	173.5	145.8	130.3	123.3	130.3
100°	196.9	201.6	215.7	218.0	276.6	332.9	304.7	269.6	257.9	250.8	257.9
102.5°	255.0	257.9	279.4	289.3	302.9	334.7	432.3	421.5	413.5	412.1	413.5
105°	342.3	344.6	384.4	403.2	412.6	412.6	410.2	457.1	532.1	548.5	532.1
107.5°	435.5	446.3	493.2	543.4	554.2	557.0	544.8	537.8	534.9	536.8	534.9
110°	499.3	515.7	572.0	635.3	651.7	656.4	651.7	644.7	640.0	640.0	640.0



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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2.5°	2317.4	2325.0	2334.7	2351.9	2376.9	2392.7	2381.5	2370.2	2381.5	2392.7	2376.9
5°	2167.2	2191.1	2222.2	2268.9	2331.2	2378.2	2379.2	2380.2	2379.2	2378.2	2331.2
7.5°	2023.1	2049.3	2083.6	2137.7	2211.4	2274.5	2305.6	2336.8	2305.6	2274.5	2211.4
10°	1943.9	1967.3	1998.4	2053.7	2133.0	2204.4	2251.6	2298.8	2251.6	2204.4	2133.0
12.5°	1892.7	1908.8	1931.9	1983.1	2062.5	2140.7	2215.2	2289.8	2215.2	2140.7	2062.5
15°	1847.2	1849.0	1855.0	1892.2	1960.5	2039.9	2152.4	2264.9	2152.4	2039.9	1960.5
17.5°	1823.7	1810.9	1798.0	1817.9	1870.5	1940.3	2061.5	2182.6	2061.5	1940.3	1870.5
20°	1809.1	1788.0	1763.8	1774.9	1821.1	1885.7	2005.2	2124.7	2005.2	1885.7	1821.1
22.5°	1784.1	1762.6	1736.1	1740.7	1776.5	1833.6	1954.8	2075.9	1954.8	1833.6	1776.5
25°	1733.0	1716.4	1693.3	1686.7	1696.8	1738.5	1875.1	2011.7	1875.1	1738.5	1696.8
27.5°	1672.7	1661.7	1647.6	1634.7	1622.8	1649.6	1792.2	1934.9	1792.2	1649.6	1622.8
30°	1637.5	1623.7	1609.6	1593.1	1574.0	1595.3	1738.0	1880.6	1738.0	1595.3	1574.0
32.5°	1643.5	1611.0	1577.7	1546.6	1517.9	1533.2	1680.7	1828.2	1680.7	1533.2	1517.9
35°	1647.6	1581.5	1526.3	1481.0	1445.9	1457.9	1611.6	1765.3	1611.6	1457.9	1445.9
37.5°	1550.8	1507.2	1459.6	1412.0	1364.4	1369.8	1534.6	1699.3	1534.6	1369.8	1364.4
40°	1512.2	1484.3	1423.0	1363.8	1306.5	1306.7	1479.5	1652.3	1479.5	1306.7	1306.5
42.5°	1476.2	1446.9	1367.2	1301.9	1251.0	1256.1	1428.9	1601.7	1428.9	1256.1	1251.0
45°	1262.0	1268.1	1247.0	1210.8	1159.6	1166.1	1345.9	1525.8	1345.9	1166.1	1159.6
47.5°	1060.2	1104.1	1151.3	1147.3	1092.1	1093.5	1264.9	1436.2	1264.9	1093.5	1092.1
50°	971.0	1033.0	1108.3	1114.4	1051.1	1044.0	1205.8	1367.5	1205.8	1044.0	1051.1
52.5°	896.8	975.7	1076.0	1088.0	1011.9	993.2	1146.9	1300.6	1146.9	993.2	1011.9
55°	799.4	903.4	1041.0	1057.1	951.6	909.4	1057.1	1204.8	1057.1	909.4	951.6
57.5°	714.2	802.4	921.8	938.7	853.1	823.8	963.4	1103.1	963.4	823.8	853.1
60°	660.8	724.1	806.5	822.5	772.3	768.5	904.1	1039.8	904.1	768.5	772.3
62.5°	595.7	639.1	694.9	713.8	695.7	714.5	843.7	972.9	843.7	714.5	695.7
65°	476.9	511.6	557.8	584.9	593.0	628.4	745.9	863.5	745.9	628.4	593.0
67.5°	385.5	417.9	453.0	480.0	498.6	538.3	640.7	743.2	640.7	538.3	498.6
70°	307.9	341.3	380.5	412.6	437.8	479.2	569.6	660.0	569.6	479.2	437.8
72.5°	251.3	279.8	311.8	343.1	373.9	416.3	493.9	571.4	493.9	416.3	373.9
75°	162.2	184.6	213.7	245.4	279.5	320.7	383.0	445.3	383.0	320.7	279.5
77.5°	120.8	131.7	146.4	168.4	197.7	231.1	276.5	321.9	276.5	231.1	197.7
80°	97.4	97.9	99.0	114.5	144.7	175.8	210.0	244.1	210.0	175.8	144.7
82.5°	77.4	76.2	74.8	83.2	101.3	121.2	146.5	171.8	146.5	121.2	101.3
85°	35.9	39.2	43.2	46.2	48.2	52.7	64.8	76.9	64.8	52.7	48.2
87.5°	18.9	18.4	18.4	19.2	20.2	20.3	18.8	17.7	18.8	19.8	21.1
90°	49.2	46.9	46.9	44.5	37.5	28.1	16.4	7.0	16.4	25.8	42.2
92.5°	58.6	58.1	54.4	50.2	41.3	41.3	40.8	25.8	44.5	63.3	91.0
95°	53.9	53.9	63.3	79.7	117.2	119.6	79.7	72.7	103.1	145.3	182.8
97.5°	145.8	173.5	212.9	220.4	208.6	155.7	149.1	138.8	188.9	230.7	291.1
100°	269.6	304.7	332.9	276.6	218.0	215.7	201.6	196.9	250.8	290.7	349.3
102.5°	421.5	432.3	334.7	302.9	289.3	279.4	257.9	255.0	309.0	363.8	413.0
105°	457.1	410.2	412.6	412.6	403.2	384.4	344.6	342.3	403.2	466.5	527.4
107.5°	537.8	544.8	557.0	554.2	543.4	493.2	446.3	435.5	490.4	566.4	633.4
110°	644.7	651.7	656.4	651.7	635.3	572.0	515.7	499.3	548.5	628.2	700.9



TEST NUMBER: P1427977

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P1427977

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2.5°	2351.9	2334.7	2325.0	2317.4	2315.8	2314.2	2315.8	2317.4	2325.0	2334.7	2351.9
5°	2268.9	2222.2	2191.1	2167.2	2165.2	2163.2	2165.2	2167.2	2191.1	2222.2	2268.9
7.5°	2137.7	2083.6	2049.3	2023.1	2021.5	2019.9	2021.5	2023.1	2049.3	2083.6	2137.7
10°	2053.7	1998.4	1967.3	1943.9	1943.9	1943.9	1943.9	1943.9	1967.3	1998.4	2053.7
12.5°	1983.1	1931.9	1908.8	1892.7	1897.5	1902.3	1897.5	1892.7	1908.8	1931.9	1983.1
15°	1892.2	1855.0	1849.0	1847.2	1858.3	1869.3	1858.3	1847.2	1849.0	1855.0	1892.2
17.5°	1817.9	1798.0	1810.9	1823.7	1836.6	1849.4	1836.6	1823.7	1810.9	1798.0	1817.9
20°	1774.9	1763.8	1788.0	1809.1	1821.1	1833.2	1821.1	1809.1	1788.0	1763.8	1774.9
22.5°	1740.7	1736.1	1762.6	1784.1	1790.6	1797.0	1790.6	1784.1	1762.6	1736.1	1740.7
25°	1686.7	1693.3	1716.4	1733.0	1729.9	1726.9	1729.9	1733.0	1716.4	1693.3	1686.7
27.5°	1634.7	1647.6	1661.7	1672.7	1674.5	1676.3	1674.5	1672.7	1661.7	1647.6	1634.7
30°	1593.1	1609.6	1623.7	1637.5	1650.6	1663.6	1650.6	1637.5	1623.7	1609.6	1593.1
32.5°	1546.6	1577.7	1611.0	1643.5	1673.5	1703.4	1673.5	1643.5	1611.0	1577.7	1546.6
35°	1481.0	1526.3	1581.5	1647.6	1746.0	1844.5	1746.0	1647.6	1581.5	1526.3	1481.0
37.5°	1412.0	1459.6	1507.2	1550.8	1582.1	1613.5	1582.1	1550.8	1507.2	1459.6	1412.0
40°	1363.8	1423.0	1484.3	1512.2	1439.9	1367.5	1439.9	1512.2	1484.3	1423.0	1363.8
42.5°	1301.9	1367.2	1446.9	1476.2	1354.1	1231.9	1354.1	1476.2	1446.9	1367.2	1301.9
45°	1210.8	1247.0	1268.1	1262.0	1174.6	1087.2	1174.6	1262.0	1268.1	1247.0	1210.8
47.5°	1147.3	1151.3	1104.1	1060.2	1026.0	991.9	1026.0	1060.2	1104.1	1151.3	1147.3
50°	1114.4	1108.3	1033.0	971.0	948.9	926.8	948.9	971.0	1033.0	1108.3	1114.4
52.5°	1088.0	1076.0	975.7	896.8	881.9	867.1	881.9	896.8	975.7	1076.0	1088.0
55°	1057.1	1041.0	903.4	799.4	796.4	793.4	796.4	799.4	903.4	1041.0	1057.1
57.5°	938.7	921.8	802.4	714.2	719.5	724.7	719.5	714.2	802.4	921.8	938.7
60°	822.5	806.5	724.1	660.8	654.8	648.7	654.8	660.8	724.1	806.5	822.5
62.5°	713.8	694.9	639.1	595.7	589.7	583.6	589.7	595.7	639.1	694.9	713.8
65°	584.9	557.8	511.6	476.9	476.9	476.9	476.9	476.9	511.6	557.8	584.9
67.5°	480.0	453.0	417.9	385.5	361.4	337.2	361.4	385.5	417.9	453.0	480.0
70°	412.6	380.5	341.3	307.9	291.8	275.8	291.8	307.9	341.3	380.5	412.6
72.5°	343.1	311.8	279.8	251.3	232.8	214.3	232.8	251.3	279.8	311.8	343.1
75°	245.4	213.7	184.6	162.2	160.2	158.2	160.2	162.2	184.6	213.7	245.4
77.5°	168.4	146.4	131.7	120.8	121.0	121.2	121.0	120.8	131.7	146.4	168.4
80°	114.5	99.0	97.9	97.4	98.5	99.5	98.5	97.4	97.9	99.0	114.5
82.5°	83.2	74.8	76.2	77.4	77.6	77.8	77.6	77.4	76.2	74.8	83.2
85°	46.2	43.2	39.2	35.9	34.9	33.9	34.9	35.9	39.2	43.2	46.2
87.5°	21.0	23.1	26.4	28.3	30.1	29.2	30.1	28.3	26.4	23.1	21.0
90°	53.9	70.3	86.7	96.1	105.5	100.8	105.5	96.1	86.7	70.3	53.9
92.5°	108.3	136.0	156.1	173.0	180.5	179.6	180.5	173.0	156.1	136.0	108.3
95°	218.0	250.8	283.6	307.1	321.2	316.5	321.2	307.1	283.6	250.8	218.0
97.5°	336.2	380.2	416.8	438.8	452.9	462.3	452.9	438.8	416.8	380.2	336.2
100°	414.9	457.1	499.3	525.1	548.5	557.9	548.5	525.1	499.3	457.1	414.9
102.5°	478.7	534.0	580.0	607.6	627.3	636.7	627.3	607.6	580.0	534.0	478.7
105°	583.7	642.3	691.5	726.7	747.8	754.8	747.8	726.7	691.5	642.3	583.7
107.5°	688.7	749.2	794.7	833.6	859.4	874.4	859.4	833.6	794.7	749.2	688.7
110°	771.2	820.5	869.7	904.9	930.6	940.0	930.6	904.9	869.7	820.5	771.2



TEST NUMBER: P1427977

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P1427977

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2375.7	2375.7	2375.7	2375.7
2.5°	2376.9	2392.7	2381.5	2370.2
5°	2331.2	2378.2	2379.2	2380.2
7.5°	2211.4	2274.5	2305.6	2336.8
10°	2133.0	2204.4	2251.6	2298.8
12.5°	2062.5	2140.7	2215.2	2289.8
15°	1960.5	2039.9	2152.4	2264.9
17.5°	1870.5	1940.3	2061.5	2182.6
20°	1821.1	1885.7	2005.2	2124.7
22.5°	1776.5	1833.6	1954.8	2075.9
25°	1696.8	1738.5	1875.1	2011.7
27.5°	1622.8	1649.6	1792.2	1934.9
30°	1574.0	1595.3	1738.0	1880.6
32.5°	1517.9	1533.2	1680.7	1828.2
35°	1445.9	1457.9	1611.6	1765.3
37.5°	1364.4	1369.8	1534.6	1699.3
40°	1306.5	1306.7	1479.5	1652.3
42.5°	1251.0	1256.1	1428.9	1601.7
45°	1159.6	1166.1	1345.9	1525.8
47.5°	1092.1	1093.5	1264.9	1436.2
50°	1051.1	1044.0	1205.8	1367.5
52.5°	1011.9	993.2	1146.9	1300.6
55°	951.6	909.4	1057.1	1204.8
57.5°	853.1	823.8	963.4	1103.1
60°	772.3	768.5	904.1	1039.8
62.5°	695.7	714.5	843.7	972.9
65°	593.0	628.4	745.9	863.5
67.5°	498.6	538.3	640.7	743.2
70°	437.8	479.2	569.6	660.0
72.5°	373.9	416.3	493.9	571.4
75°	279.5	320.7	383.0	445.3
77.5°	197.7	231.1	276.5	321.9
80°	144.7	175.8	210.0	244.1
82.5°	101.3	121.2	146.5	171.8
85°	48.2	52.7	64.8	76.9
87.5°	21.1	19.8	18.8	17.7
90°	42.2	25.8	16.4	7.0
92.5°	91.0	63.3	44.5	25.8
95°	182.8	145.3	103.1	72.7
97.5°	291.1	230.7	188.9	138.8
100°	349.3	290.7	250.8	196.9
102.5°	413.0	363.8	309.0	255.0
105°	527.4	466.5	403.2	342.3
107.5°	633.4	566.4	490.4	435.5
110°	700.9	628.2	548.5	499.3



TEST NUMBER: P1427977

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**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P1427977  
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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	18.93	19.73	19.94	20.75	22.11	17.76	18.56	18.77	19.58	20.94
	3H	21.10	21.82	22.12	22.85	24.23	18.81	19.52	19.83	20.55	21.93
	4H	21.91	22.59	22.95	23.62	25.01	19.05	19.73	20.08	20.76	22.15
	6H	22.38	23.00	23.42	24.04	25.44	19.19	19.81	20.23	20.85	22.25
	8H	22.53	23.12	23.58	24.17	25.57	19.24	19.84	20.29	20.89	22.28
	12H	22.58	23.15	23.64	24.20	25.61	19.25	19.82	20.31	20.86	22.28
4H	2H	19.36	20.04	20.40	21.07	22.46	18.44	19.12	19.48	20.15	21.53
	3H	21.61	22.17	22.66	23.23	24.63	19.66	20.23	20.71	21.29	22.69
	4H	22.48	22.99	23.53	24.05	25.47	19.95	20.47	21.01	21.52	22.94
	6H	23.03	23.48	24.10	24.55	25.97	20.15	20.59	21.21	21.66	23.08
	8H	23.23	23.65	24.30	24.72	26.15	20.23	20.65	21.30	21.72	23.15
	12H	23.32	23.69	24.40	24.77	26.21	20.26	20.63	21.34	21.71	23.15
8H	4H	22.49	22.91	23.56	23.98	25.41	20.17	20.59	21.24	21.66	23.09
	6H	23.12	23.46	24.21	24.57	26.00	20.44	20.78	21.53	21.89	23.32
	8H	23.38	23.68	24.48	24.78	26.23	20.59	20.89	21.68	21.98	23.43
	12H	23.51	23.78	24.61	24.86	26.35	20.65	20.91	21.75	22.00	23.49
12H	4H	22.44	22.82	23.53	23.90	25.34	20.17	20.54	21.25	21.62	23.06
	6H	23.10	23.40	24.19	24.49	25.94	20.48	20.78	21.57	21.87	23.32
	8H	23.37	23.63	24.47	24.72	26.21	20.64	20.90	21.73	21.99	23.48