

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: P1428463

Luminaire Tested: SQ2W-PW1-K-125U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428463  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PW1-K-125U-125D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

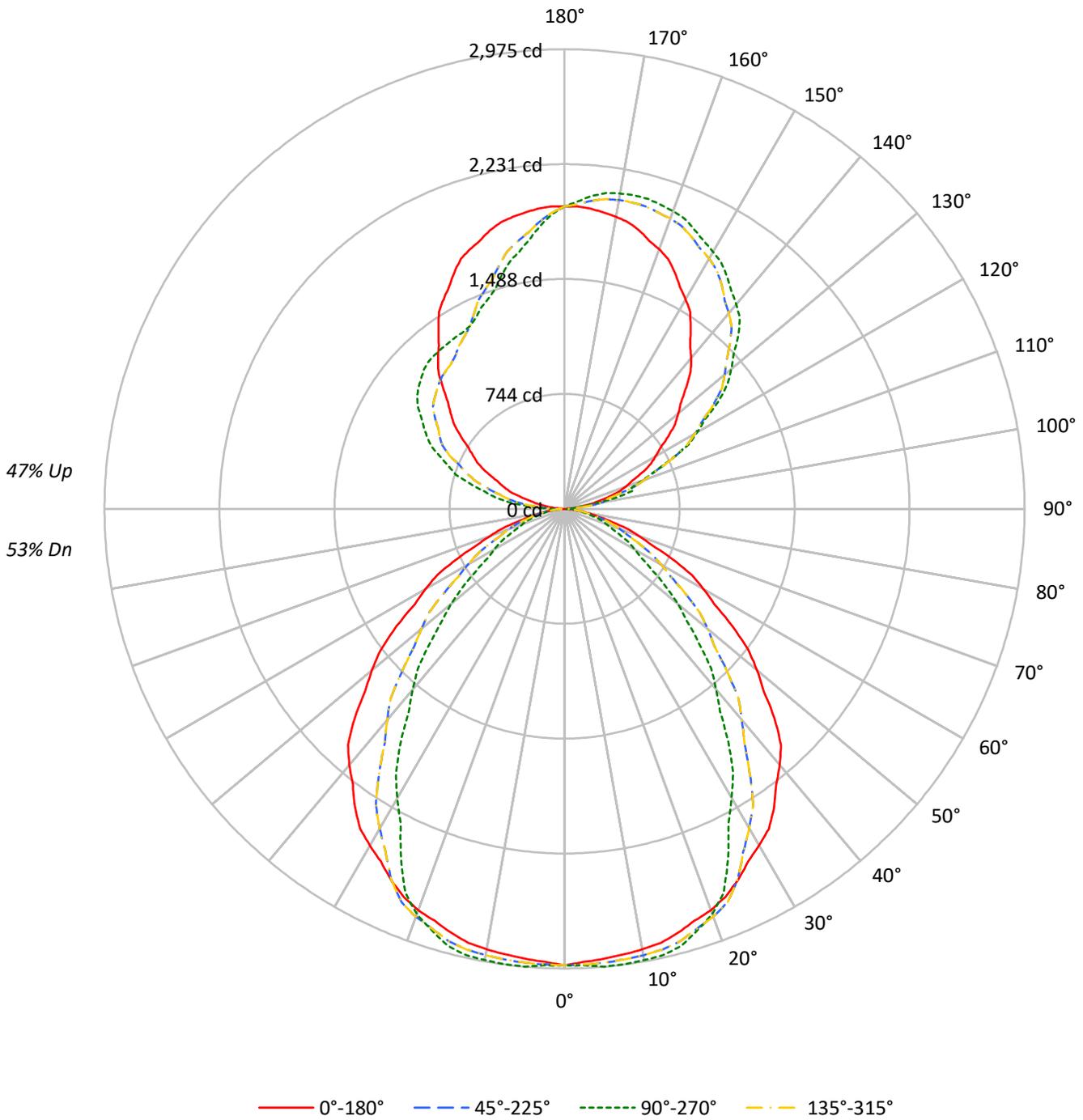
Lumens per Lamp: N/A  
Luminaire Lumens: 12278.4 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.2  
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	69	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	58	60	55	51	51	47	45	43	40	38	34
4	76	66	58	53	71	62	55	50	53	48	44	46	42	39	39	36	33	30
5	70	59	51	45	65	55	48	43	48	43	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	44	38	34	38	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	29	26	24	21
8	56	44	36	31	52	41	34	30	36	31	27	32	27	24	27	24	21	19
9	52	40	33	28	49	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	26	22	27	23	20	23	20	18	16

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

	0°	90°	180°	270°
0°	47713	47713	47713	47713
5°	47395	48215	47395	48215
10°	47480	48635	47480	48635
15°	47468	48927	47468	48927
20°	47489	47971	47489	47971
25°	47232	44574	47232	44574
30°	46910	40297	46910	40297
35°	46543	36391	46543	36391
40°	45618	32152	45618	32152
45°	43828	28083	43828	28083
50°	40792	24035	40792	24035
55°	37314	19490	37314	19490
60°	33444	16814	33444	16814
65°	29245	14945	29245	14945
70°	23915	13553	23915	13553
75°	18608	12464	18608	12464
80°	13872	10990	13872	10990
85°	9392	6261	9392	6261

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 43828 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.4	2.3
10°-20°	815.4	6.6
20°-30°	1199.9	9.8
30°-40°	1311.9	10.7
40°-50°	1176.9	9.6
50°-60°	877.9	7.2
60°-70°	554.9	4.5
70°-80°	274.9	2.2
80°-90°	72.4	0.6
90°-100°	155.7	1.3
100°-110°	454.1	3.7
110°-120°	741.1	6.0
120°-130°	940.4	7.7
130°-140°	1006.2	8.2
140°-150°	939.6	7.7
150°-160°	773.1	6.3
160°-170°	518.5	4.2
170°-180°	184.1	1.5
0°-30°	2296.7	18.7
0°-40°	3608.6	29.4
0°-60°	5663.4	46.1
0°-90°	6565.6	53.5
90°-120°	1350.9	11.0
90°-150°	4237.0	34.5
90°-180°	5713.0	46.5
0°-180°	12278.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2955	2955	2955	2955	2955	
5°	2924	2975	2924	2975	2924	278
15°	2840	2927	2840	2927	2840	802
25°	2651	2502	2651	2502	2651	1221
35°	2361	1846	2361	1846	2361	1473
45°	1920	1230	1920	1230	1920	1472
55°	1326	692	1326	692	1326	1184
65°	766	391	766	391	766	759
75°	298	200	298	200	298	329
85°	51	34	51	34	51	64
90°	6	44	6	85	6	7
95°	61	46	61	267	61	74
105°	288	462	288	636	288	307
115°	553	767	553	945	553	545
125°	818	1215	818	1158	818	732
135°	1113	1591	1113	1283	1113	860
145°	1421	1834	1421	1310	1421	889
155°	1688	1992	1688	1360	1688	776
165°	1866	2077	1866	1565	1866	525
175°	1951	2034	1951	1836	1951	185
180°	1956	1956	1956	1956	1956	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	2935.0	2952.0	2969.0	2965.0	2954.0	2949.0	2950.0	2951.5	2954.5	2957.5	2954.5
5°	2924.3	2945.5	2966.8	2963.7	2952.4	2947.4	2948.7	2952.4	2963.7	2974.9	2963.7
7.5°	2909.6	2931.2	2952.7	2951.7	2943.2	2941.0	2945.3	2951.2	2962.2	2973.3	2962.2
10°	2896.1	2918.7	2941.2	2941.2	2933.7	2933.0	2939.3	2946.5	2956.5	2966.5	2956.5
12.5°	2878.1	2901.6	2925.2	2926.9	2921.4	2922.3	2929.5	2937.5	2947.5	2957.5	2947.5
15°	2839.8	2864.9	2889.9	2895.2	2893.9	2897.7	2906.5	2914.6	2920.8	2927.1	2920.8
17.5°	2795.4	2820.4	2845.4	2850.4	2848.6	2848.9	2851.1	2853.5	2856.5	2859.6	2856.5
20°	2763.9	2788.9	2813.9	2817.3	2813.6	2807.3	2798.6	2792.0	2792.0	2792.0	2792.0
22.5°	2718.8	2745.8	2772.9	2773.1	2764.3	2748.0	2724.3	2704.4	2696.4	2688.4	2696.4
25°	2651.3	2677.5	2703.8	2691.6	2666.6	2629.7	2580.9	2539.6	2520.9	2502.1	2520.9
27.5°	2572.5	2593.7	2615.0	2583.2	2533.6	2474.2	2404.9	2346.4	2320.4	2294.4	2320.4
30°	2516.2	2532.4	2548.7	2498.4	2425.8	2351.4	2275.1	2211.6	2186.6	2161.5	2186.6
32.5°	2457.6	2463.9	2470.1	2403.8	2313.2	2228.3	2149.0	2082.7	2055.7	2028.7	2055.7
35°	2361.4	2350.1	2338.9	2250.7	2136.8	2039.9	1959.8	1893.9	1870.1	1846.3	1870.1
37.5°	2247.7	2214.2	2180.6	2081.2	1959.9	1857.3	1773.5	1704.1	1677.8	1651.6	1677.8
40°	2164.4	2116.8	2069.3	1962.7	1836.3	1731.2	1647.4	1578.0	1551.7	1525.5	1551.7
42.5°	2072.0	2012.5	1953.0	1843.3	1717.0	1611.9	1528.1	1458.4	1431.2	1403.9	1431.2
45°	1919.5	1849.5	1779.4	1665.3	1536.4	1431.3	1350.0	1282.5	1256.2	1229.9	1256.2
47.5°	1747.8	1678.3	1608.7	1494.9	1366.3	1262.6	1183.8	1119.1	1096.5	1074.0	1096.5
50°	1624.0	1556.4	1488.9	1380.1	1257.5	1156.8	1078.0	1012.0	984.5	956.9	984.5
52.5°	1497.9	1437.3	1376.8	1272.0	1152.4	1052.2	971.4	901.4	863.9	826.3	863.9
55°	1325.6	1268.1	1210.6	1111.7	999.2	897.8	807.8	734.9	713.6	692.4	713.6
57.5°	1148.3	1098.5	1048.8	959.9	858.1	766.3	684.5	618.8	601.2	583.7	601.2
60°	1035.7	992.0	948.2	863.1	764.3	680.5	611.7	555.7	538.2	520.7	538.2
62.5°	927.7	888.9	850.1	768.6	672.7	597.4	542.6	497.9	483.4	468.9	483.4
65°	765.5	736.8	708.0	640.8	560.7	498.2	453.1	416.2	403.7	391.2	403.7
67.5°	607.9	591.9	575.9	525.6	463.8	413.1	373.6	341.9	333.6	325.4	333.6
70°	506.6	501.6	496.6	455.0	401.2	358.1	325.5	299.6	293.3	287.1	293.3
72.5°	418.8	420.8	422.8	388.2	341.4	305.3	279.8	259.6	255.3	251.1	255.3
75°	298.3	308.3	318.4	295.5	261.8	236.1	218.6	204.8	202.3	199.8	202.3
77.5°	203.2	218.2	233.2	218.4	193.6	174.8	161.7	151.5	149.5	147.5	149.5
80°	149.2	164.2	179.2	168.9	150.1	135.7	125.7	118.2	118.2	118.2	118.2
82.5°	104.1	116.1	128.2	120.8	107.1	97.7	92.7	88.9	88.9	88.9	88.9
85°	50.7	56.9	63.2	61.0	56.0	49.7	42.2	36.3	35.0	33.8	35.0
87.5°	14.7	19.3	24.3	22.8	19.0	16.4	15.4	15.1	15.5	15.5	15.5
90°	5.9	13.8	23.7	31.6	37.5	39.5	39.5	41.5	43.5	43.5	43.5
92.5°	21.7	34.4	34.8	34.8	42.3	45.9	49.0	49.4	51.4	51.4	51.4
95°	61.3	67.2	100.8	98.8	67.2	53.4	45.5	45.5	45.5	45.5	45.5
97.5°	117.0	125.7	131.2	175.9	185.8	179.4	146.2	122.9	109.9	104.0	109.9
100°	166.0	170.0	181.8	183.8	233.2	280.6	256.9	227.3	217.4	211.5	217.4
102.5°	215.0	217.4	235.6	243.9	255.3	282.2	364.4	355.3	348.6	347.4	348.6
105°	288.5	290.5	324.1	339.9	347.8	347.8	345.9	385.4	448.6	462.5	448.6
107.5°	367.2	376.3	415.8	458.1	467.2	469.6	459.3	453.4	451.0	452.6	451.0
110°	421.0	434.8	482.2	535.6	549.4	553.4	549.4	543.5	539.5	539.5	539.5

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	473.1	493.3	547.0	608.3	631.6	643.5	634.8	630.4	626.5	629.7	626.5
115°	553.4	583.0	654.2	717.4	764.8	770.8	768.8	768.8	766.8	766.8	766.8
117.5°	627.7	675.1	754.9	828.5	883.4	899.2	907.1	904.8	902.4	906.3	902.4
120°	679.8	735.2	826.1	909.1	962.5	986.2	994.1	990.1	994.1	990.1	994.1
122.5°	735.2	803.2	892.5	978.7	1041.5	1068.4	1077.9	1078.7	1079.5	1077.1	1079.5
125°	818.2	901.2	1005.9	1094.9	1160.1	1191.7	1199.6	1201.6	1205.5	1215.4	1205.5
127.5°	902.0	996.1	1111.1	1196.9	1263.7	1302.0	1314.2	1318.6	1326.9	1331.2	1326.9
130°	960.5	1067.2	1183.8	1264.8	1330.1	1371.6	1393.3	1399.2	1409.1	1407.1	1409.1
132.5°	1022.1	1133.6	1251.8	1336.0	1396.5	1441.1	1459.7	1476.7	1480.3	1483.0	1480.3
135°	1112.7	1233.2	1351.8	1434.8	1492.1	1535.6	1559.3	1575.1	1585.0	1590.9	1585.0
137.5°	1207.9	1335.2	1449.0	1522.9	1580.7	1618.2	1645.1	1661.7	1672.0	1676.7	1672.0
140°	1272.7	1395.3	1505.9	1583.0	1634.4	1672.0	1695.7	1715.4	1727.3	1727.3	1727.3
142.5°	1334.4	1455.4	1562.9	1639.9	1685.0	1719.4	1744.7	1759.7	1773.1	1773.1	1773.1
145°	1421.0	1541.5	1640.3	1717.4	1755.0	1786.6	1814.3	1826.1	1834.0	1834.0	1834.0
147.5°	1511.5	1618.2	1708.3	1782.2	1813.9	1851.0	1872.7	1882.2	1892.1	1887.8	1892.1
150°	1565.2	1664.1	1751.0	1820.2	1851.8	1887.4	1909.1	1917.0	1926.9	1921.0	1926.9
152.5°	1617.4	1711.5	1790.5	1855.0	1881.8	1917.4	1942.3	1950.2	1956.9	1952.6	1956.9
155°	1687.8	1770.8	1843.9	1903.2	1926.9	1960.5	1984.2	1994.1	2002.0	1992.1	2002.0
157.5°	1750.6	1822.2	1885.8	1940.3	1965.6	1994.5	2016.6	2028.9	2036.8	2032.4	2036.8
160°	1788.6	1853.8	1911.1	1962.5	1986.2	2011.9	2035.6	2049.4	2057.3	2051.4	2057.3
162.5°	1820.2	1879.1	1933.2	1979.9	2000.4	2022.9	2051.4	2063.7	2071.6	2064.1	2071.6
165°	1865.6	1913.1	1960.5	2000.0	2017.8	2035.6	2065.2	2079.1	2085.0	2077.1	2085.0
167.5°	1900.0	1936.4	1974.7	2008.7	2021.8	2039.2	2068.8	2080.3	2087.8	2077.9	2087.8
170°	1919.0	1950.6	1984.2	2011.9	2021.8	2037.6	2067.2	2077.1	2083.0	2073.1	2083.0
172.5°	1934.8	1958.5	1985.8	2010.3	2015.4	2028.1	2056.2	2066.0	2070.4	2062.1	2070.4
175°	1950.6	1964.5	1984.2	2000.0	1998.0	2006.0	2029.7	2037.6	2045.5	2033.6	2045.5
177.5°	1958.1	1964.5	1970.8	1980.3	1973.9	1973.9	1991.3	1996.1	1997.7	1991.3	1997.7
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	2951.5	2950.0	2949.0	2954.0	2965.0	2969.0	2952.0	2935.0	2952.0	2969.0	2965.0
5°	2952.4	2948.7	2947.4	2952.4	2963.7	2966.8	2945.5	2924.3	2945.5	2966.8	2963.7
7.5°	2951.2	2945.3	2941.0	2943.2	2951.7	2952.7	2931.2	2909.6	2931.2	2952.7	2951.7
10°	2946.5	2939.3	2933.0	2933.7	2941.2	2941.2	2918.7	2896.1	2918.7	2941.2	2941.2
12.5°	2937.5	2929.5	2922.3	2921.4	2926.9	2925.2	2901.6	2878.1	2901.6	2925.2	2926.9
15°	2914.6	2906.5	2897.7	2893.9	2895.2	2889.9	2864.9	2839.8	2864.9	2889.9	2895.2
17.5°	2853.5	2851.1	2848.9	2848.6	2850.4	2845.4	2820.4	2795.4	2820.4	2845.4	2850.4
20°	2792.0	2798.6	2807.3	2813.6	2817.3	2813.9	2788.9	2763.9	2788.9	2813.9	2817.3
22.5°	2704.4	2724.3	2748.0	2764.3	2773.1	2772.9	2745.8	2718.8	2745.8	2772.9	2773.1
25°	2539.6	2580.9	2629.7	2666.6	2691.6	2703.8	2677.5	2651.3	2677.5	2703.8	2691.6
27.5°	2346.4	2404.9	2474.2	2533.6	2583.2	2615.0	2593.7	2572.5	2593.7	2615.0	2583.2
30°	2211.6	2275.1	2351.4	2425.8	2498.4	2548.7	2532.4	2516.2	2532.4	2548.7	2498.4
32.5°	2082.7	2149.0	2228.3	2313.2	2403.8	2470.1	2463.9	2457.6	2463.9	2470.1	2403.8
35°	1893.9	1959.8	2039.9	2136.8	2250.7	2338.9	2350.1	2361.4	2350.1	2338.9	2250.7
37.5°	1704.1	1773.5	1857.3	1959.9	2081.2	2180.6	2214.2	2247.7	2214.2	2180.6	2081.2
40°	1578.0	1647.4	1731.2	1836.3	1962.7	2069.3	2116.8	2164.4	2116.8	2069.3	1962.7
42.5°	1458.4	1528.1	1611.9	1717.0	1843.3	1953.0	2012.5	2072.0	2012.5	1953.0	1843.3
45°	1282.5	1350.0	1431.3	1536.4	1665.3	1779.4	1849.5	1919.5	1849.5	1779.4	1665.3
47.5°	1119.1	1183.8	1262.6	1366.3	1494.9	1608.7	1678.3	1747.8	1678.3	1608.7	1494.9
50°	1012.0	1078.0	1156.8	1257.5	1380.1	1488.9	1556.4	1624.0	1556.4	1488.9	1380.1
52.5°	901.4	971.4	1052.2	1152.4	1272.0	1376.8	1437.3	1497.9	1437.3	1376.8	1272.0
55°	734.9	807.8	897.8	999.2	1111.7	1210.6	1268.1	1325.6	1268.1	1210.6	1111.7
57.5°	618.8	684.5	766.3	858.1	959.9	1048.8	1098.5	1148.3	1098.5	1048.8	959.9
60°	555.7	611.7	680.5	764.3	863.1	948.2	992.0	1035.7	992.0	948.2	863.1
62.5°	497.9	542.6	597.4	672.7	768.6	850.1	888.9	927.7	888.9	850.1	768.6
65°	416.2	453.1	498.2	560.7	640.8	708.0	736.8	765.5	736.8	708.0	640.8
67.5°	341.9	373.6	413.1	463.8	525.6	575.9	591.9	607.9	591.9	575.9	525.6
70°	299.6	325.5	358.1	401.2	455.0	496.6	501.6	506.6	501.6	496.6	455.0
72.5°	259.6	279.8	305.3	341.4	388.2	422.8	420.8	418.8	420.8	422.8	388.2
75°	204.8	218.6	236.1	261.8	295.5	318.4	308.3	298.3	308.3	318.4	295.5
77.5°	151.5	161.7	174.8	193.6	218.4	233.2	218.2	203.2	218.2	233.2	218.4
80°	118.2	125.7	135.7	150.1	168.9	179.2	164.2	149.2	164.2	179.2	168.9
82.5°	88.9	92.7	97.7	107.1	120.8	128.2	116.1	104.1	116.1	128.2	120.8
85°	36.3	42.2	49.7	56.0	61.0	63.2	56.9	50.7	56.9	63.2	61.0
87.5°	15.1	15.4	16.4	19.0	22.8	24.3	19.3	14.7	19.3	23.9	23.6
90°	41.5	39.5	39.5	37.5	31.6	23.7	13.8	5.9	13.8	21.7	35.6
92.5°	49.4	49.0	45.9	42.3	34.8	34.8	34.4	21.7	37.5	53.4	76.7
95°	45.5	45.5	53.4	67.2	98.8	100.8	67.2	61.3	87.0	122.5	154.2
97.5°	122.9	146.2	179.4	185.8	175.9	131.2	125.7	117.0	159.3	194.5	245.5
100°	227.3	256.9	280.6	233.2	183.8	181.8	170.0	166.0	211.5	245.1	294.5
102.5°	355.3	364.4	282.2	255.3	243.9	235.6	217.4	215.0	260.5	306.7	348.2
105°	385.4	345.9	347.8	347.8	339.9	324.1	290.5	288.5	339.9	393.3	444.7
107.5°	453.4	459.3	469.6	467.2	458.1	415.8	376.3	367.2	413.4	477.5	534.0
110°	543.5	549.4	553.4	549.4	535.6	482.2	434.8	421.0	462.5	529.7	590.9



TEST NUMBER: P1428463

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	630.4	634.8	643.5	631.6	608.3	547.0	493.3	473.1	514.6	583.4	646.3
115°	768.8	768.8	770.8	764.8	717.4	654.2	583.0	553.4	588.9	652.2	721.4
117.5°	904.8	907.1	899.2	883.4	828.5	754.9	675.1	627.7	655.7	722.5	793.7
120°	990.1	994.1	986.2	962.5	909.1	826.1	735.2	679.8	701.6	766.8	838.0
122.5°	1078.7	1077.9	1068.4	1041.5	978.7	892.5	803.2	735.2	744.3	804.8	874.3
125°	1201.6	1199.6	1191.7	1160.1	1094.9	1005.9	901.2	818.2	806.3	857.7	928.9
127.5°	1318.6	1314.2	1302.0	1263.7	1196.9	1111.1	996.1	902.0	875.5	907.9	973.1
130°	1399.2	1393.3	1371.6	1330.1	1264.8	1183.8	1067.2	960.5	922.9	942.7	1000.0
132.5°	1476.7	1459.7	1441.1	1396.5	1336.0	1251.8	1133.6	1022.1	970.4	979.1	1023.7
135°	1575.1	1559.3	1535.6	1492.1	1434.8	1351.8	1233.2	1112.7	1041.5	1033.6	1059.3
137.5°	1661.7	1645.1	1618.2	1580.7	1522.9	1449.0	1335.2	1207.9	1118.2	1091.7	1101.6
140°	1715.4	1695.7	1672.0	1634.4	1583.0	1505.9	1395.3	1272.7	1172.0	1134.4	1128.5
142.5°	1759.7	1744.7	1719.4	1685.0	1639.9	1562.9	1455.4	1334.4	1227.3	1178.7	1164.8
145°	1826.1	1814.3	1786.6	1755.0	1717.4	1640.3	1541.5	1421.0	1314.2	1251.0	1221.4
147.5°	1882.2	1872.7	1851.0	1813.9	1782.2	1708.3	1618.2	1511.5	1402.0	1323.7	1285.4
150°	1917.0	1909.1	1887.4	1851.8	1820.2	1751.0	1664.1	1565.2	1460.5	1377.5	1328.1
152.5°	1950.2	1942.3	1917.4	1881.8	1855.0	1790.5	1711.5	1617.4	1511.1	1428.1	1377.1
155°	1994.1	1984.2	1960.5	1926.9	1903.2	1843.9	1770.8	1687.8	1596.9	1509.9	1452.6
157.5°	2028.9	2016.6	1994.5	1965.6	1940.3	1885.8	1822.2	1750.6	1671.2	1588.2	1529.7
160°	2049.4	2035.6	2011.9	1986.2	1962.5	1911.1	1853.8	1788.6	1715.4	1640.3	1577.1
162.5°	2063.7	2051.4	2022.9	2000.4	1979.9	1933.2	1879.1	1820.2	1755.0	1689.3	1630.8
165°	2079.1	2065.2	2035.6	2017.8	2000.0	1960.5	1913.1	1865.6	1810.3	1756.9	1709.5
167.5°	2080.3	2068.8	2039.2	2021.8	2008.7	1974.7	1936.4	1900.0	1856.9	1815.0	1775.5
170°	2077.1	2067.2	2037.6	2021.8	2011.9	1984.2	1950.6	1919.0	1885.4	1849.8	1818.2
172.5°	2066.0	2056.2	2028.1	2015.4	2010.3	1985.8	1958.5	1934.8	1906.0	1879.9	1854.6
175°	2037.6	2029.7	2006.0	1998.0	2000.0	1984.2	1964.5	1950.6	1932.8	1917.0	1903.2
177.5°	1996.1	1991.3	1973.9	1973.9	1980.3	1970.8	1964.5	1958.1	1950.2	1945.5	1940.7
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1428463

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	2954.0	2949.0	2950.0	2951.5	2954.5	2957.5	2954.5	2951.5	2950.0	2949.0	2954.0
5°	2952.4	2947.4	2948.7	2952.4	2963.7	2974.9	2963.7	2952.4	2948.7	2947.4	2952.4
7.5°	2943.2	2941.0	2945.3	2951.2	2962.2	2973.3	2962.2	2951.2	2945.3	2941.0	2943.2
10°	2933.7	2933.0	2939.3	2946.5	2956.5	2966.5	2956.5	2946.5	2939.3	2933.0	2933.7
12.5°	2921.4	2922.3	2929.5	2937.5	2947.5	2957.5	2947.5	2937.5	2929.5	2922.3	2921.4
15°	2893.9	2897.7	2906.5	2914.6	2920.8	2927.1	2920.8	2914.6	2906.5	2897.7	2893.9
17.5°	2848.6	2848.9	2851.1	2853.5	2856.5	2859.6	2856.5	2853.5	2851.1	2848.9	2848.6
20°	2813.6	2807.3	2798.6	2792.0	2792.0	2792.0	2792.0	2792.0	2798.6	2807.3	2813.6
22.5°	2764.3	2748.0	2724.3	2704.4	2696.4	2688.4	2696.4	2704.4	2724.3	2748.0	2764.3
25°	2666.6	2629.7	2580.9	2539.6	2520.9	2502.1	2520.9	2539.6	2580.9	2629.7	2666.6
27.5°	2533.6	2474.2	2404.9	2346.4	2320.4	2294.4	2320.4	2346.4	2404.9	2474.2	2533.6
30°	2425.8	2351.4	2275.1	2211.6	2186.6	2161.5	2186.6	2211.6	2275.1	2351.4	2425.8
32.5°	2313.2	2228.3	2149.0	2082.7	2055.7	2028.7	2055.7	2082.7	2149.0	2228.3	2313.2
35°	2136.8	2039.9	1959.8	1893.9	1870.1	1846.3	1870.1	1893.9	1959.8	2039.9	2136.8
37.5°	1959.9	1857.3	1773.5	1704.1	1677.8	1651.6	1677.8	1704.1	1773.5	1857.3	1959.9
40°	1836.3	1731.2	1647.4	1578.0	1551.7	1525.5	1551.7	1578.0	1647.4	1731.2	1836.3
42.5°	1717.0	1611.9	1528.1	1458.4	1431.2	1403.9	1431.2	1458.4	1528.1	1611.9	1717.0
45°	1536.4	1431.3	1350.0	1282.5	1256.2	1229.9	1256.2	1282.5	1350.0	1431.3	1536.4
47.5°	1366.3	1262.6	1183.8	1119.1	1096.5	1074.0	1096.5	1119.1	1183.8	1262.6	1366.3
50°	1257.5	1156.8	1078.0	1012.0	984.5	956.9	984.5	1012.0	1078.0	1156.8	1257.5
52.5°	1152.4	1052.2	971.4	901.4	863.9	826.3	863.9	901.4	971.4	1052.2	1152.4
55°	999.2	897.8	807.8	734.9	713.6	692.4	713.6	734.9	807.8	897.8	999.2
57.5°	858.1	766.3	684.5	618.8	601.2	583.7	601.2	618.8	684.5	766.3	858.1
60°	764.3	680.5	611.7	555.7	538.2	520.7	538.2	555.7	611.7	680.5	764.3
62.5°	672.7	597.4	542.6	497.9	483.4	468.9	483.4	497.9	542.6	597.4	672.7
65°	560.7	498.2	453.1	416.2	403.7	391.2	403.7	416.2	453.1	498.2	560.7
67.5°	463.8	413.1	373.6	341.9	333.6	325.4	333.6	341.9	373.6	413.1	463.8
70°	401.2	358.1	325.5	299.6	293.3	287.1	293.3	299.6	325.5	358.1	401.2
72.5°	341.4	305.3	279.8	259.6	255.3	251.1	255.3	259.6	279.8	305.3	341.4
75°	261.8	236.1	218.6	204.8	202.3	199.8	202.3	204.8	218.6	236.1	261.8
77.5°	193.6	174.8	161.7	151.5	149.5	147.5	149.5	151.5	161.7	174.8	193.6
80°	150.1	135.7	125.7	118.2	118.2	118.2	118.2	118.2	125.7	135.7	150.1
82.5°	107.1	97.7	92.7	88.9	88.9	88.9	88.9	88.9	92.7	97.7	107.1
85°	56.0	49.7	42.2	36.3	35.0	33.8	35.0	36.3	42.2	49.7	56.0
87.5°	20.6	20.4	22.1	23.0	24.5	23.8	24.5	23.0	22.1	20.4	20.6
90°	45.5	59.3	73.1	81.0	88.9	85.0	88.9	81.0	73.1	59.3	45.5
92.5°	91.3	114.6	131.6	145.9	152.2	151.4	152.2	145.9	131.6	114.6	91.3
95°	183.8	211.5	239.1	258.9	270.8	266.8	270.8	258.9	239.1	211.5	183.8
97.5°	283.4	320.6	351.4	370.0	381.8	389.7	381.8	370.0	351.4	320.6	283.4
100°	349.8	385.4	421.0	442.7	462.5	470.4	462.5	442.7	421.0	385.4	349.8
102.5°	403.6	450.2	488.9	512.3	528.9	536.8	528.9	512.3	488.9	450.2	403.6
105°	492.1	541.5	583.0	612.7	630.4	636.4	630.4	612.7	583.0	541.5	492.1
107.5°	580.6	631.6	670.0	702.8	724.5	737.2	724.5	702.8	670.0	631.6	580.6
110°	650.2	691.7	733.2	762.9	784.6	792.5	784.6	762.9	733.2	691.7	650.2



TEST NUMBER: P1428463

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	708.7	754.9	796.5	826.1	851.0	862.1	851.0	826.1	796.5	754.9	708.7
115°	790.5	851.8	889.3	917.0	934.8	944.7	934.8	917.0	889.3	851.8	790.5
117.5°	858.5	922.5	963.6	985.0	993.3	1000.4	993.3	985.0	963.6	922.5	858.5
120°	901.2	960.5	1007.9	1035.6	1045.5	1049.4	1045.5	1035.6	1007.9	960.5	901.2
122.5°	940.7	996.8	1042.7	1076.7	1092.9	1096.9	1092.9	1076.7	1042.7	996.8	940.7
125°	996.1	1049.4	1096.9	1130.4	1148.2	1158.1	1148.2	1130.4	1096.9	1049.4	996.1
127.5°	1044.3	1102.0	1145.5	1175.9	1193.3	1201.2	1193.3	1175.9	1145.5	1102.0	1044.3
130°	1071.2	1130.4	1173.9	1207.5	1223.3	1231.2	1223.3	1207.5	1173.9	1130.4	1071.2
132.5°	1091.7	1154.2	1199.2	1229.7	1247.1	1255.0	1247.1	1229.7	1199.2	1154.2	1091.7
135°	1116.6	1181.8	1229.3	1258.9	1274.7	1282.6	1274.7	1258.9	1229.3	1181.8	1116.6
137.5°	1138.4	1197.6	1247.1	1278.3	1292.5	1297.6	1292.5	1278.3	1247.1	1197.6	1138.4
140°	1154.2	1205.5	1255.0	1284.6	1300.4	1302.4	1300.4	1284.6	1255.0	1205.5	1154.2
142.5°	1174.7	1215.0	1258.1	1287.8	1303.6	1307.1	1303.6	1287.8	1258.1	1215.0	1174.7
145°	1211.5	1235.2	1264.8	1292.5	1306.3	1310.3	1306.3	1292.5	1264.8	1235.2	1211.5
147.5°	1257.7	1265.2	1280.6	1298.8	1312.3	1315.0	1312.3	1298.8	1280.6	1265.2	1257.7
150°	1292.5	1290.5	1296.5	1308.3	1320.2	1318.2	1320.2	1308.3	1296.5	1290.5	1292.5
152.5°	1332.0	1320.6	1320.2	1325.7	1331.2	1330.8	1331.2	1325.7	1320.2	1320.6	1332.0
155°	1399.2	1377.5	1365.6	1361.7	1361.7	1359.7	1361.7	1361.7	1365.6	1377.5	1399.2
157.5°	1473.1	1442.7	1424.9	1415.4	1412.7	1408.3	1412.7	1415.4	1424.9	1442.7	1473.1
160°	1523.7	1490.1	1472.3	1456.5	1450.6	1444.7	1450.6	1456.5	1472.3	1490.1	1523.7
162.5°	1571.2	1539.1	1519.8	1505.6	1499.6	1490.5	1499.6	1505.6	1519.8	1539.1	1571.2
165°	1648.2	1614.6	1592.9	1581.0	1573.1	1565.2	1573.1	1581.0	1592.9	1614.6	1648.2
167.5°	1725.3	1688.6	1674.3	1660.9	1653.4	1639.1	1653.4	1660.9	1674.3	1688.6	1725.3
170°	1772.7	1739.2	1731.2	1719.4	1705.6	1689.7	1705.6	1719.4	1731.2	1739.2	1772.7
172.5°	1813.9	1791.3	1783.4	1771.6	1767.2	1754.6	1767.2	1771.6	1783.4	1791.3	1813.9
175°	1873.5	1855.8	1855.8	1853.8	1847.8	1836.0	1847.8	1853.8	1855.8	1855.8	1873.5
177.5°	1923.3	1913.9	1920.2	1920.2	1918.6	1907.5	1918.6	1920.2	1920.2	1913.9	1923.3
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1428463

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2955.2	2955.2	2955.2	2955.2
2.5°	2965.0	2969.0	2952.0	2935.0
5°	2963.7	2966.8	2945.5	2924.3
7.5°	2951.7	2952.7	2931.2	2909.6
10°	2941.2	2941.2	2918.7	2896.1
12.5°	2926.9	2925.2	2901.6	2878.1
15°	2895.2	2889.9	2864.9	2839.8
17.5°	2850.4	2845.4	2820.4	2795.4
20°	2817.3	2813.9	2788.9	2763.9
22.5°	2773.1	2772.9	2745.8	2718.8
25°	2691.6	2703.8	2677.5	2651.3
27.5°	2583.2	2615.0	2593.7	2572.5
30°	2498.4	2548.7	2532.4	2516.2
32.5°	2403.8	2470.1	2463.9	2457.6
35°	2250.7	2338.9	2350.1	2361.4
37.5°	2081.2	2180.6	2214.2	2247.7
40°	1962.7	2069.3	2116.8	2164.4
42.5°	1843.3	1953.0	2012.5	2072.0
45°	1665.3	1779.4	1849.5	1919.5
47.5°	1494.9	1608.7	1678.3	1747.8
50°	1380.1	1488.9	1556.4	1624.0
52.5°	1272.0	1376.8	1437.3	1497.9
55°	1111.7	1210.6	1268.1	1325.6
57.5°	959.9	1048.8	1098.5	1148.3
60°	863.1	948.2	992.0	1035.7
62.5°	768.6	850.1	888.9	927.7
65°	640.8	708.0	736.8	765.5
67.5°	525.6	575.9	591.9	607.9
70°	455.0	496.6	501.6	506.6
72.5°	388.2	422.8	420.8	418.8
75°	295.5	318.4	308.3	298.3
77.5°	218.4	233.2	218.2	203.2
80°	168.9	179.2	164.2	149.2
82.5°	120.8	128.2	116.1	104.1
85°	61.0	63.2	56.9	50.7
87.5°	23.6	23.9	19.3	14.7
90°	35.6	21.7	13.8	5.9
92.5°	76.7	53.4	37.5	21.7
95°	154.2	122.5	87.0	61.3
97.5°	245.5	194.5	159.3	117.0
100°	294.5	245.1	211.5	166.0
102.5°	348.2	306.7	260.5	215.0
105°	444.7	393.3	339.9	288.5
107.5°	534.0	477.5	413.4	367.2
110°	590.9	529.7	462.5	421.0



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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	646.3	583.4	514.6	473.1
115°	721.4	652.2	588.9	553.4
117.5°	793.7	722.5	655.7	627.7
120°	838.0	766.8	701.6	679.8
122.5°	874.3	804.8	744.3	735.2
125°	928.9	857.7	806.3	818.2
127.5°	973.1	907.9	875.5	902.0
130°	1000.0	942.7	922.9	960.5
132.5°	1023.7	979.1	970.4	1022.1
135°	1059.3	1033.6	1041.5	1112.7
137.5°	1101.6	1091.7	1118.2	1207.9
140°	1128.5	1134.4	1172.0	1272.7
142.5°	1164.8	1178.7	1227.3	1334.4
145°	1221.4	1251.0	1314.2	1421.0
147.5°	1285.4	1323.7	1402.0	1511.5
150°	1328.1	1377.5	1460.5	1565.2
152.5°	1377.1	1428.1	1511.1	1617.4
155°	1452.6	1509.9	1596.9	1687.8
157.5°	1529.7	1588.2	1671.2	1750.6
160°	1577.1	1640.3	1715.4	1788.6
162.5°	1630.8	1689.3	1755.0	1820.2
165°	1709.5	1756.9	1810.3	1865.6
167.5°	1775.5	1815.0	1856.9	1900.0
170°	1818.2	1849.8	1885.4	1919.0
172.5°	1854.6	1879.9	1906.0	1934.8
175°	1903.2	1917.0	1932.8	1950.6
177.5°	1940.7	1945.5	1950.2	1958.1
180°	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1428463  
 CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L840-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.66	21.52	21.60	22.46	23.69	16.91	17.76	17.85	18.71	19.93
	3H	21.96	22.73	22.91	23.68	24.93	18.18	18.94	19.13	19.90	21.15
	4H	22.37	23.09	23.33	24.05	25.31	18.69	19.41	19.65	20.37	21.62
	6H	22.55	23.21	23.52	24.18	25.45	18.99	19.66	19.97	20.62	21.89
	8H	22.59	23.22	23.57	24.21	25.47	19.11	19.74	20.09	20.72	21.99
	12H	22.59	23.19	23.58	24.17	25.46	19.14	19.74	20.12	20.71	22.00
4H	2H	20.79	21.51	21.76	22.47	23.73	17.72	18.44	18.69	19.40	20.66
	3H	22.33	22.93	23.31	23.92	25.19	19.17	19.76	20.14	20.75	22.02
	4H	22.88	23.42	23.86	24.41	25.70	19.74	20.29	20.73	21.27	22.57
	6H	23.19	23.66	24.19	24.66	25.96	20.13	20.60	21.12	21.60	22.90
	8H	23.28	23.72	24.28	24.72	26.02	20.28	20.71	21.28	21.72	23.02
	12H	23.30	23.69	24.32	24.71	26.02	20.32	20.71	21.34	21.73	23.04
8H	4H	22.92	23.35	23.91	24.35	25.66	20.09	20.52	21.08	21.52	22.83
	6H	23.34	23.70	24.36	24.74	26.05	20.58	20.94	21.60	21.98	23.29
	8H	23.51	23.83	24.54	24.85	26.18	20.80	21.12	21.83	22.14	23.47
	12H	23.59	23.87	24.62	24.89	26.26	20.88	21.16	21.91	22.18	23.55
12H	4H	22.87	23.27	23.89	24.28	25.60	20.10	20.50	21.12	21.51	22.83
	6H	23.33	23.65	24.36	24.68	26.00	20.65	20.97	21.68	22.00	23.32
	8H	23.52	23.80	24.55	24.82	26.19	20.90	21.18	21.93	22.20	23.57