

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: P1428143

Luminaire Tested: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428143  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE PRISM LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

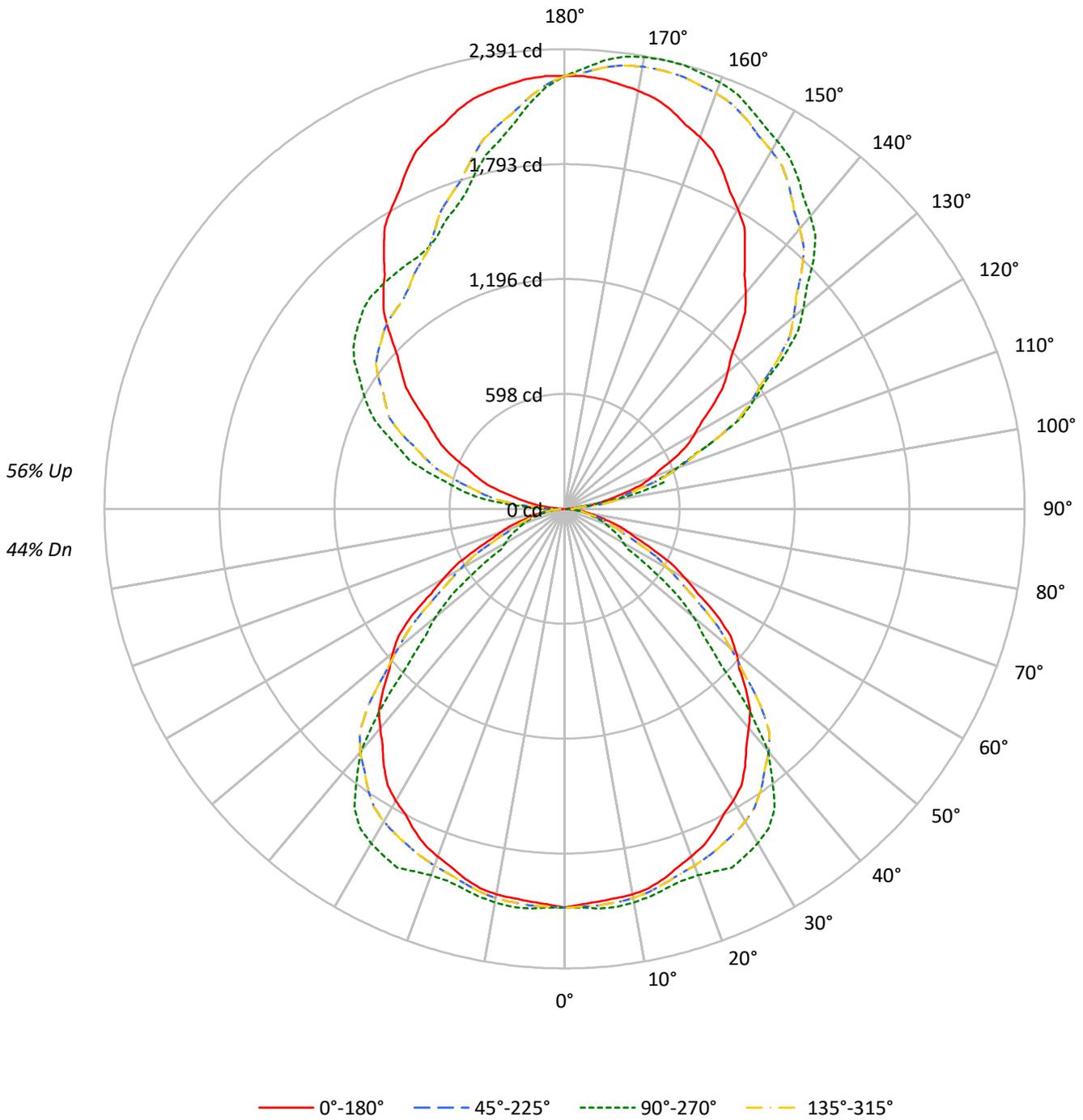
Lumens per Lamp: N/A  
Luminaire Lumens: 11808.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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

TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**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	59	74	66	60	55	56	51	47	46	43	40	36	34	32	28				
4	74	64	56	51	68	59	52	47	50	45	41	41	37	34	33	30	28	24				
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17				
8	54	42	34	29	49	39	32	28	33	28	24	28	24	21	23	20	17	15				
9	50	38	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	19	16	14	12				

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

	0°	90°	180°	270°
0°	33494	33494	33494	33494
5°	33231	33836	33231	33836
10°	33401	34083	33401	34083
15°	33320	34162	33320	34162
20°	33082	34853	33082	34853
25°	32895	36684	32895	36684
30°	32708	37449	32708	37449
35°	32244	37518	32244	37518
40°	31383	34665	31383	34665
45°	30444	26388	30444	26388
50°	29250	21978	29250	21978
55°	27223	15803	27223	15803
60°	23440	11331	23440	11331
65°	19770	11144	19770	11144
70°	16461	10664	16461	10664
75°	13955	9987	13955	9987
80°	11827	8972	11827	8972
85°	9337	4872	9337	4872

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 33305 cd/sqm



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	1.7
10°-20°	571.7	4.8
20°-30°	895.7	7.6
30°-40°	1104.9	9.4
40°-50°	1040.2	8.8
50°-60°	736.5	6.2
60°-70°	419.7	3.6
70°-80°	207.7	1.8
80°-90°	60.1	0.5
90°-100°	179.2	1.5
100°-110°	522.6	4.4
110°-120°	852.8	7.2
120°-130°	1082.1	9.2
130°-140°	1157.9	9.8
140°-150°	1081.2	9.2
150°-160°	889.7	7.5
160°-170°	596.7	5.1
170°-180°	211.9	1.8
0°-30°	1664.9	14.1
0°-40°	2769.8	23.5
0°-60°	4546.5	38.5
0°-90°	5234.0	44.3
90°-120°	1554.5	13.2
90°-150°	4875.8	41.3
90°-180°	6574.0	55.7
0°-180°	11808.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2074	2074	2074	2074	2074	
5°	2050	2088	2050	2088	2050	195
15°	1993	2044	1993	2044	1993	562
25°	1846	2059	1846	2059	1846	850
35°	1636	1904	1636	1904	1636	1020
45°	1333	1156	1333	1156	1333	1026
55°	967	561	967	561	967	853
65°	518	292	518	292	518	520
75°	224	160	224	160	224	242
85°	50	26	50	26	50	59
90°	7	50	7	98	7	8
95°	70	52	70	307	70	85
105°	332	532	332	732	332	353
115°	637	882	637	1087	637	628
125°	942	1399	942	1333	942	842
135°	1280	1831	1280	1476	1280	989
145°	1635	2110	1635	1508	1635	1023
155°	1942	2292	1942	1565	1942	893
165°	2147	2390	2147	1801	2147	604
175°	2245	2340	2245	2113	2245	213
180°	2252	2252	2252	2252	2252	



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	2058.7	2072.0	2085.3	2082.1	2073.6	2070.1	2071.6	2073.2	2074.7	2076.3	2074.7
5°	2050.4	2067.0	2083.6	2081.1	2072.3	2068.9	2070.9	2074.0	2080.9	2087.7	2080.9
7.5°	2042.5	2059.5	2076.4	2074.2	2065.7	2063.0	2066.3	2070.9	2079.3	2087.7	2079.3
10°	2037.3	2051.9	2066.5	2064.3	2056.5	2055.0	2059.9	2065.3	2072.1	2078.9	2072.1
12.5°	2021.5	2035.3	2049.1	2047.3	2040.3	2040.0	2046.5	2052.8	2058.8	2064.9	2058.8
15°	1993.4	2006.1	2018.7	2019.0	2015.1	2017.5	2026.3	2034.1	2039.0	2043.8	2039.0
17.5°	1955.2	1970.6	1986.0	1989.6	1989.2	1995.2	2007.7	2018.3	2023.4	2028.5	2023.4
20°	1925.4	1943.9	1962.5	1968.5	1970.5	1979.3	1994.9	2009.0	2018.7	2028.5	2018.7
22.5°	1893.8	1915.5	1937.1	1945.2	1948.7	1962.1	1985.5	2007.2	2024.0	2040.8	2024.0
25°	1846.5	1867.9	1889.4	1904.9	1918.6	1942.5	1976.6	2008.5	2033.8	2059.2	2033.8
27.5°	1791.2	1812.5	1833.7	1860.5	1889.2	1922.7	1961.1	1994.9	2015.0	2035.1	2015.0
30°	1754.4	1774.8	1795.3	1826.0	1860.1	1897.1	1937.1	1971.7	1990.2	2008.7	1990.2
32.5°	1708.8	1730.0	1751.2	1783.9	1820.3	1860.1	1903.2	1939.7	1956.7	1973.7	1956.7
35°	1635.9	1656.4	1676.9	1714.9	1758.7	1803.1	1847.9	1884.0	1893.7	1903.5	1893.7
37.5°	1552.2	1575.4	1598.6	1641.2	1690.3	1727.5	1752.6	1771.6	1772.2	1772.8	1772.2
40°	1489.0	1519.2	1549.4	1592.1	1638.9	1664.7	1669.6	1670.1	1657.4	1644.7	1657.4
42.5°	1427.6	1466.4	1505.2	1539.5	1572.2	1578.9	1559.6	1531.1	1474.7	1418.4	1474.7
45°	1333.3	1379.1	1424.9	1445.9	1458.6	1415.7	1317.2	1233.7	1194.7	1155.7	1194.7
47.5°	1232.9	1278.1	1323.3	1317.5	1294.7	1229.8	1122.8	1035.8	1008.9	982.0	1008.9
50°	1164.5	1207.3	1250.2	1219.3	1163.7	1090.6	1000.0	925.7	900.3	875.0	900.3
52.5°	1087.3	1125.5	1163.7	1116.9	1041.9	964.9	886.0	817.1	778.5	739.9	778.5
55°	967.1	993.4	1019.7	968.6	891.6	806.8	714.2	635.5	598.4	561.4	598.4
57.5°	822.4	840.9	859.4	819.1	759.3	675.0	566.2	474.3	432.7	391.2	432.7
60°	725.9	740.5	755.1	718.6	665.0	584.5	477.3	391.8	371.3	350.9	371.3
62.5°	638.1	651.2	664.3	626.2	571.0	499.2	410.7	342.5	335.3	328.1	335.3
65°	517.5	530.2	542.9	502.9	445.4	389.4	334.8	293.6	292.6	291.7	292.6
67.5°	411.8	425.7	439.5	401.9	347.1	305.7	277.6	256.3	255.1	253.9	255.1
70°	348.7	363.3	377.9	342.8	291.2	257.6	242.0	229.8	227.8	225.9	227.8
72.5°	296.0	309.9	323.7	293.1	247.7	219.9	209.8	201.9	200.7	199.6	200.7
75°	223.7	234.4	245.1	223.0	189.8	170.8	165.9	162.0	161.1	160.1	161.1
77.5°	162.3	169.1	175.9	161.4	139.8	127.7	125.1	123.0	122.0	121.1	122.0
80°	127.2	130.1	133.0	122.8	108.2	100.4	99.4	98.4	97.5	96.5	97.5
82.5°	95.6	94.6	93.7	87.7	80.1	75.8	74.9	73.7	71.9	70.2	71.9
85°	50.4	48.5	46.5	44.6	42.6	39.7	35.8	32.2	29.2	26.3	29.2
87.5°	17.2	19.0	21.2	20.1	17.6	15.7	14.9	14.8	15.3	15.3	15.3
90°	6.8	15.9	27.3	36.4	43.2	45.5	45.5	47.8	50.0	50.0	50.0
92.5°	25.0	39.6	40.0	40.0	48.7	52.8	56.4	56.9	59.1	59.1	59.1
95°	70.5	77.3	116.0	113.7	77.3	61.4	52.3	52.3	52.3	52.3	52.3
97.5°	134.6	144.6	151.0	202.4	213.8	206.5	168.3	141.5	126.4	119.6	126.4
100°	191.0	195.6	209.2	211.5	268.4	322.9	295.7	261.5	250.2	243.3	250.2
102.5°	247.4	250.2	271.1	280.6	293.8	324.8	419.4	408.9	401.2	399.8	401.2
105°	332.0	334.3	373.0	391.2	400.3	400.3	398.0	443.5	516.3	532.2	516.3
107.5°	422.6	433.0	478.5	527.2	537.6	540.4	528.5	521.7	519.0	520.8	519.0
110°	484.4	500.3	554.9	616.3	632.2	636.8	632.2	625.4	620.9	620.9	620.9



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	544.5	567.7	629.5	700.0	726.9	740.5	730.5	725.5	720.9	724.6	720.9
115°	636.8	670.9	752.8	825.6	880.1	887.0	884.7	884.7	882.4	882.4	882.4
117.5°	722.3	776.9	868.8	953.4	1016.6	1034.8	1043.9	1041.2	1038.4	1043.0	1038.4
120°	782.3	846.0	950.6	1046.2	1107.6	1134.9	1144.0	1139.4	1144.0	1139.4	1144.0
122.5°	846.0	924.3	1027.1	1126.2	1198.5	1229.5	1240.4	1241.3	1242.2	1239.5	1242.2
125°	941.5	1037.1	1157.6	1259.9	1335.0	1371.4	1380.5	1382.8	1387.3	1398.7	1387.3
127.5°	1038.0	1146.2	1278.6	1377.3	1454.2	1498.3	1512.4	1517.4	1526.9	1531.9	1526.9
130°	1105.3	1228.1	1362.3	1455.5	1530.6	1578.3	1603.4	1610.2	1621.6	1619.3	1621.6
132.5°	1176.3	1304.5	1440.5	1537.4	1607.0	1658.4	1679.8	1699.3	1703.4	1706.6	1703.4
135°	1280.4	1419.1	1555.6	1651.1	1717.1	1767.1	1794.4	1812.6	1824.0	1830.8	1824.0
137.5°	1390.0	1536.5	1667.5	1752.6	1819.0	1862.2	1893.1	1912.2	1924.0	1929.5	1924.0
140°	1464.6	1605.6	1733.0	1821.7	1880.8	1924.0	1951.3	1974.1	1987.7	1987.7	1987.7
142.5°	1535.6	1674.8	1798.5	1887.2	1939.0	1978.6	2007.7	2025.0	2040.5	2040.5	2040.5
145°	1635.2	1773.9	1887.6	1976.3	2019.6	2055.9	2087.8	2101.4	2110.5	2110.5	2110.5
147.5°	1739.4	1862.2	1965.9	2050.9	2087.3	2130.1	2155.1	2166.0	2177.4	2172.4	2177.4
150°	1801.2	1914.9	2015.0	2094.6	2131.0	2171.9	2196.9	2206.0	2217.4	2210.6	2217.4
152.5°	1861.3	1969.5	2060.5	2134.6	2165.6	2206.5	2235.2	2244.2	2252.0	2247.0	2252.0
155°	1942.2	2037.7	2121.9	2190.1	2217.4	2256.1	2283.4	2294.7	2303.8	2292.5	2303.8
157.5°	2014.5	2096.9	2170.1	2232.9	2262.0	2295.2	2320.7	2334.8	2343.9	2338.9	2343.9
160°	2058.2	2133.3	2199.2	2258.3	2285.6	2315.2	2342.5	2358.4	2367.5	2360.7	2367.5
162.5°	2094.6	2162.4	2224.7	2278.4	2302.0	2327.9	2360.7	2374.8	2383.9	2375.2	2383.9
165°	2146.9	2201.5	2256.1	2301.6	2322.0	2342.5	2376.6	2392.5	2399.4	2390.3	2399.4
167.5°	2186.5	2228.3	2272.5	2311.6	2326.6	2346.6	2380.7	2393.9	2402.5	2391.2	2402.5
170°	2208.3	2244.7	2283.4	2315.2	2326.6	2344.8	2378.9	2390.3	2397.1	2385.7	2397.1
172.5°	2226.5	2253.8	2285.2	2313.4	2319.3	2333.9	2366.2	2377.5	2382.5	2373.0	2382.5
175°	2244.7	2260.6	2283.4	2301.6	2299.3	2308.4	2335.7	2344.8	2353.9	2340.2	2353.9
177.5°	2253.3	2260.6	2267.9	2278.8	2271.5	2271.5	2291.6	2297.0	2298.8	2291.6	2298.8
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	2073.2	2071.6	2070.1	2073.6	2082.1	2085.3	2072.0	2058.7	2072.0	2085.3	2082.1
5°	2074.0	2070.9	2068.9	2072.3	2081.1	2083.6	2067.0	2050.4	2067.0	2083.6	2081.1
7.5°	2070.9	2066.3	2063.0	2065.7	2074.2	2076.4	2059.5	2042.5	2059.5	2076.4	2074.2
10°	2065.3	2059.9	2055.0	2056.5	2064.3	2066.5	2051.9	2037.3	2051.9	2066.5	2064.3
12.5°	2052.8	2046.5	2040.0	2040.3	2047.3	2049.1	2035.3	2021.5	2035.3	2049.1	2047.3
15°	2034.1	2026.3	2017.5	2015.1	2019.0	2018.7	2006.1	1993.4	2006.1	2018.7	2019.0
17.5°	2018.3	2007.7	1995.2	1989.2	1989.6	1986.0	1970.6	1955.2	1970.6	1986.0	1989.6
20°	2009.0	1994.9	1979.3	1970.5	1968.5	1962.5	1943.9	1925.4	1943.9	1962.5	1968.5
22.5°	2007.2	1985.5	1962.1	1948.7	1945.2	1937.1	1915.5	1893.8	1915.5	1937.1	1945.2
25°	2008.5	1976.6	1942.5	1918.6	1904.9	1889.4	1867.9	1846.5	1867.9	1889.4	1904.9
27.5°	1994.9	1961.1	1922.7	1889.2	1860.5	1833.7	1812.5	1791.2	1812.5	1833.7	1860.5
30°	1971.7	1937.1	1897.1	1860.1	1826.0	1795.3	1774.8	1754.4	1774.8	1795.3	1826.0
32.5°	1939.7	1903.2	1860.1	1820.3	1783.9	1751.2	1730.0	1708.8	1730.0	1751.2	1783.9
35°	1884.0	1847.9	1803.1	1758.7	1714.9	1676.9	1656.4	1635.9	1656.4	1676.9	1714.9
37.5°	1771.6	1752.6	1727.5	1690.3	1641.2	1598.6	1575.4	1552.2	1575.4	1598.6	1641.2
40°	1670.1	1669.6	1664.7	1638.9	1592.1	1549.4	1519.2	1489.0	1519.2	1549.4	1592.1
42.5°	1531.1	1559.6	1578.9	1572.2	1539.5	1505.2	1466.4	1427.6	1466.4	1505.2	1539.5
45°	1233.7	1317.2	1415.7	1458.6	1445.9	1424.9	1379.1	1333.3	1379.1	1424.9	1445.9
47.5°	1035.8	1122.8	1229.8	1294.7	1317.5	1323.3	1278.1	1232.9	1278.1	1323.3	1317.5
50°	925.7	1000.0	1090.6	1163.7	1219.3	1250.2	1207.3	1164.5	1207.3	1250.2	1219.3
52.5°	817.1	886.0	964.9	1041.9	1116.9	1163.7	1125.5	1087.3	1125.5	1163.7	1116.9
55°	635.5	714.2	806.8	891.6	968.6	1019.7	993.4	967.1	993.4	1019.7	968.6
57.5°	474.3	566.2	675.0	759.3	819.1	859.4	840.9	822.4	840.9	859.4	819.1
60°	391.8	477.3	584.5	665.0	718.6	755.1	740.5	725.9	740.5	755.1	718.6
62.5°	342.5	410.7	499.2	571.0	626.2	664.3	651.2	638.1	651.2	664.3	626.2
65°	293.6	334.8	389.4	445.4	502.9	542.9	530.2	517.5	530.2	542.9	502.9
67.5°	256.3	277.6	305.7	347.1	401.9	439.5	425.7	411.8	425.7	439.5	401.9
70°	229.8	242.0	257.6	291.2	342.8	377.9	363.3	348.7	363.3	377.9	342.8
72.5°	201.9	209.8	219.9	247.7	293.1	323.7	309.9	296.0	309.9	323.7	293.1
75°	162.0	165.9	170.8	189.8	223.0	245.1	234.4	223.7	234.4	245.1	223.0
77.5°	123.0	125.1	127.7	139.8	161.4	175.9	169.1	162.3	169.1	175.9	161.4
80°	98.4	99.4	100.4	108.2	122.8	133.0	130.1	127.2	130.1	133.0	122.8
82.5°	73.7	74.9	75.8	80.1	87.7	93.7	94.6	95.6	94.6	93.7	87.7
85°	32.2	35.8	39.7	42.6	44.6	46.5	48.5	50.4	48.5	46.5	44.6
87.5°	14.8	14.9	15.7	17.6	20.1	21.2	19.0	17.2	19.0	20.8	21.1
90°	47.8	45.5	45.5	43.2	36.4	27.3	15.9	6.8	15.9	25.0	40.9
92.5°	56.9	56.4	52.8	48.7	40.0	40.0	39.6	25.0	43.2	61.4	88.2
95°	52.3	52.3	61.4	77.3	113.7	116.0	77.3	70.5	100.1	141.0	177.4
97.5°	141.5	168.3	206.5	213.8	202.4	151.0	144.6	134.6	183.3	223.8	282.5
100°	261.5	295.7	322.9	268.4	211.5	209.2	195.6	191.0	243.3	282.0	338.9
102.5°	408.9	419.4	324.8	293.8	280.6	271.1	250.2	247.4	299.7	353.0	400.7
105°	443.5	398.0	400.3	400.3	391.2	373.0	334.3	332.0	391.2	452.6	511.7
107.5°	521.7	528.5	540.4	537.6	527.2	478.5	433.0	422.6	475.8	549.5	614.5
110°	625.4	632.2	636.8	632.2	616.3	554.9	500.3	484.4	532.2	609.5	680.0



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	725.5	730.5	740.5	726.9	700.0	629.5	567.7	544.5	592.2	671.4	743.7
115°	884.7	884.7	887.0	880.1	825.6	752.8	670.9	636.8	677.7	750.5	830.1
117.5°	1041.2	1043.9	1034.8	1016.6	953.4	868.8	776.9	722.3	754.6	831.5	913.3
120°	1139.4	1144.0	1134.9	1107.6	1046.2	950.6	846.0	782.3	807.4	882.4	964.3
122.5°	1241.3	1240.4	1229.5	1198.5	1126.2	1027.1	924.3	846.0	856.5	926.1	1006.1
125°	1382.8	1380.5	1371.4	1335.0	1259.9	1157.6	1037.1	941.5	927.9	987.0	1068.9
127.5°	1517.4	1512.4	1498.3	1454.2	1377.3	1278.6	1146.2	1038.0	1007.5	1044.8	1119.9
130°	1610.2	1603.4	1578.3	1530.6	1455.5	1362.3	1228.1	1105.3	1062.1	1084.8	1150.8
132.5°	1699.3	1679.8	1658.4	1607.0	1537.4	1440.5	1304.5	1176.3	1116.7	1126.7	1178.1
135°	1812.6	1794.4	1767.1	1717.1	1651.1	1555.6	1419.1	1280.4	1198.5	1189.4	1219.0
137.5°	1912.2	1893.1	1862.2	1819.0	1752.6	1667.5	1536.5	1390.0	1286.8	1256.3	1267.7
140°	1974.1	1951.3	1924.0	1880.8	1821.7	1733.0	1605.6	1464.6	1348.6	1305.4	1298.6
142.5°	2025.0	2007.7	1978.6	1939.0	1887.2	1798.5	1674.8	1535.6	1412.3	1356.4	1340.5
145°	2101.4	2087.8	2055.9	2019.6	1976.3	1887.6	1773.9	1635.2	1512.4	1439.6	1405.5
147.5°	2166.0	2155.1	2130.1	2087.3	2050.9	1965.9	1862.2	1739.4	1613.4	1523.3	1479.2
150°	2206.0	2196.9	2171.9	2131.0	2094.6	2015.0	1914.9	1801.2	1680.7	1585.2	1528.3
152.5°	2244.2	2235.2	2206.5	2165.6	2134.6	2060.5	1969.5	1861.3	1738.9	1643.4	1584.7
155°	2294.7	2283.4	2256.1	2217.4	2190.1	2121.9	2037.7	1942.2	1837.6	1737.5	1671.6
157.5°	2334.8	2320.7	2295.2	2262.0	2232.9	2170.1	2096.9	2014.5	1923.1	1827.6	1760.3
160°	2358.4	2342.5	2315.2	2285.6	2258.3	2199.2	2133.3	2058.2	1974.1	1887.6	1814.9
162.5°	2374.8	2360.7	2327.9	2302.0	2278.4	2224.7	2162.4	2094.6	2019.6	1944.0	1876.7
165°	2392.5	2376.6	2342.5	2322.0	2301.6	2256.1	2201.5	2146.9	2083.2	2021.8	1967.2
167.5°	2393.9	2380.7	2346.6	2326.6	2311.6	2272.5	2228.3	2186.5	2136.9	2088.7	2043.2
170°	2390.3	2378.9	2344.8	2326.6	2315.2	2283.4	2244.7	2208.3	2169.7	2128.7	2092.3
172.5°	2377.5	2366.2	2333.9	2319.3	2313.4	2285.2	2253.8	2226.5	2193.3	2163.3	2134.2
175°	2344.8	2335.7	2308.4	2299.3	2301.6	2283.4	2260.6	2244.7	2224.2	2206.0	2190.1
177.5°	2297.0	2291.6	2271.5	2271.5	2278.8	2267.9	2260.6	2253.3	2244.2	2238.8	2233.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	2073.6	2070.1	2071.6	2073.2	2074.7	2076.3	2074.7	2073.2	2071.6	2070.1	2073.6
5°	2072.3	2068.9	2070.9	2074.0	2080.9	2087.7	2080.9	2074.0	2070.9	2068.9	2072.3
7.5°	2065.7	2063.0	2066.3	2070.9	2079.3	2087.7	2079.3	2070.9	2066.3	2063.0	2065.7
10°	2056.5	2055.0	2059.9	2065.3	2072.1	2078.9	2072.1	2065.3	2059.9	2055.0	2056.5
12.5°	2040.3	2040.0	2046.5	2052.8	2058.8	2064.9	2058.8	2052.8	2046.5	2040.0	2040.3
15°	2015.1	2017.5	2026.3	2034.1	2039.0	2043.8	2039.0	2034.1	2026.3	2017.5	2015.1
17.5°	1989.2	1995.2	2007.7	2018.3	2023.4	2028.5	2023.4	2018.3	2007.7	1995.2	1989.2
20°	1970.5	1979.3	1994.9	2009.0	2018.7	2028.5	2018.7	2009.0	1994.9	1979.3	1970.5
22.5°	1948.7	1962.1	1985.5	2007.2	2024.0	2040.8	2024.0	2007.2	1985.5	1962.1	1948.7
25°	1918.6	1942.5	1976.6	2008.5	2033.8	2059.2	2033.8	2008.5	1976.6	1942.5	1918.6
27.5°	1889.2	1922.7	1961.1	1994.9	2015.0	2035.1	2015.0	1994.9	1961.1	1922.7	1889.2
30°	1860.1	1897.1	1937.1	1971.7	1990.2	2008.7	1990.2	1971.7	1937.1	1897.1	1860.1
32.5°	1820.3	1860.1	1903.2	1939.7	1956.7	1973.7	1956.7	1939.7	1903.2	1860.1	1820.3
35°	1758.7	1803.1	1847.9	1884.0	1893.7	1903.5	1893.7	1884.0	1847.9	1803.1	1758.7
37.5°	1690.3	1727.5	1752.6	1771.6	1772.2	1772.8	1772.2	1771.6	1752.6	1727.5	1690.3
40°	1638.9	1664.7	1669.6	1670.1	1657.4	1644.7	1657.4	1670.1	1669.6	1664.7	1638.9
42.5°	1572.2	1578.9	1559.6	1531.1	1474.7	1418.4	1474.7	1531.1	1559.6	1578.9	1572.2
45°	1458.6	1415.7	1317.2	1233.7	1194.7	1155.7	1194.7	1233.7	1317.2	1415.7	1458.6
47.5°	1294.7	1229.8	1122.8	1035.8	1008.9	982.0	1008.9	1035.8	1122.8	1229.8	1294.7
50°	1163.7	1090.6	1000.0	925.7	900.3	875.0	900.3	925.7	1000.0	1090.6	1163.7
52.5°	1041.9	964.9	886.0	817.1	778.5	739.9	778.5	817.1	886.0	964.9	1041.9
55°	891.6	806.8	714.2	635.5	598.4	561.4	598.4	635.5	714.2	806.8	891.6
57.5°	759.3	675.0	566.2	474.3	432.7	391.2	432.7	474.3	566.2	675.0	759.3
60°	665.0	584.5	477.3	391.8	371.3	350.9	371.3	391.8	477.3	584.5	665.0
62.5°	571.0	499.2	410.7	342.5	335.3	328.1	335.3	342.5	410.7	499.2	571.0
65°	445.4	389.4	334.8	293.6	292.6	291.7	292.6	293.6	334.8	389.4	445.4
67.5°	347.1	305.7	277.6	256.3	255.1	253.9	255.1	256.3	277.6	305.7	347.1
70°	291.2	257.6	242.0	229.8	227.8	225.9	227.8	229.8	242.0	257.6	291.2
72.5°	247.7	219.9	209.8	201.9	200.7	199.6	200.7	201.9	209.8	219.9	247.7
75°	189.8	170.8	165.9	162.0	161.1	160.1	161.1	162.0	165.9	170.8	189.8
77.5°	139.8	127.7	125.1	123.0	122.0	121.1	122.0	123.0	125.1	127.7	139.8
80°	108.2	100.4	99.4	98.4	97.5	96.5	97.5	98.4	99.4	100.4	108.2
82.5°	80.1	75.8	74.9	73.7	71.9	70.2	71.9	73.7	74.9	75.8	80.1
85°	42.6	39.7	35.8	32.2	29.2	26.3	29.2	32.2	35.8	39.7	42.6
87.5°	19.4	20.3	22.7	23.9	25.7	24.8	25.7	23.9	22.7	20.3	19.4
90°	52.3	68.2	84.1	93.2	102.3	97.8	102.3	93.2	84.1	68.2	52.3
92.5°	105.1	131.9	151.5	167.8	175.1	174.2	175.1	167.8	151.5	131.9	105.1
95°	211.5	243.3	275.2	297.9	311.6	307.0	311.6	297.9	275.2	243.3	211.5
97.5°	326.1	368.9	404.4	425.7	439.4	448.5	439.4	425.7	404.4	368.9	326.1
100°	402.5	443.5	484.4	509.4	532.2	541.3	532.2	509.4	484.4	443.5	402.5
102.5°	464.4	518.1	562.7	589.5	608.6	617.7	608.6	589.5	562.7	518.1	464.4
105°	566.3	623.1	670.9	705.0	725.5	732.3	725.5	705.0	670.9	623.1	566.3
107.5°	668.2	726.9	771.0	808.7	833.7	848.3	833.7	808.7	771.0	726.9	668.2
110°	748.2	796.0	843.8	877.9	902.9	912.0	902.9	877.9	843.8	796.0	748.2



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	815.6	868.8	916.5	950.6	979.3	992.0	979.3	950.6	916.5	868.8	815.6
115°	909.7	980.2	1023.4	1055.3	1075.7	1087.1	1075.7	1055.3	1023.4	980.2	909.7
117.5°	987.9	1061.6	1108.9	1133.5	1143.0	1151.2	1143.0	1133.5	1108.9	1061.6	987.9
120°	1037.1	1105.3	1159.9	1191.7	1203.1	1207.6	1203.1	1191.7	1159.9	1105.3	1037.1
122.5°	1082.6	1147.1	1199.9	1239.0	1257.7	1262.2	1257.7	1239.0	1199.9	1147.1	1082.6
125°	1146.2	1207.6	1262.2	1300.9	1321.4	1332.7	1321.4	1300.9	1262.2	1207.6	1146.2
127.5°	1201.7	1268.1	1318.2	1353.2	1373.2	1382.3	1373.2	1353.2	1318.2	1268.1	1201.7
130°	1232.7	1300.9	1350.9	1389.6	1407.8	1416.9	1407.8	1389.6	1350.9	1300.9	1232.7
132.5°	1256.3	1328.2	1380.0	1415.1	1435.1	1444.2	1435.1	1415.1	1380.0	1328.2	1256.3
135°	1285.0	1360.0	1414.6	1448.7	1466.9	1476.0	1466.9	1448.7	1414.6	1360.0	1285.0
137.5°	1310.0	1378.2	1435.1	1471.0	1487.4	1493.3	1487.4	1471.0	1435.1	1378.2	1310.0
140°	1328.2	1387.3	1444.2	1478.3	1496.5	1498.7	1496.5	1478.3	1444.2	1387.3	1328.2
142.5°	1351.8	1398.2	1447.8	1481.9	1500.1	1504.2	1500.1	1481.9	1447.8	1398.2	1351.8
145°	1394.1	1421.4	1455.5	1487.4	1503.3	1507.8	1503.3	1487.4	1455.5	1421.4	1394.1
147.5°	1447.3	1456.0	1473.7	1494.6	1510.1	1513.3	1510.1	1494.6	1473.7	1456.0	1447.3
150°	1487.4	1485.1	1491.9	1505.6	1519.2	1516.9	1519.2	1505.6	1491.9	1485.1	1487.4
152.5°	1532.9	1519.7	1519.2	1525.6	1531.9	1531.5	1531.9	1525.6	1519.2	1519.7	1532.9
155°	1610.2	1585.2	1571.5	1567.0	1567.0	1564.7	1567.0	1567.0	1571.5	1585.2	1610.2
157.5°	1695.2	1660.2	1639.7	1628.8	1625.6	1620.6	1625.6	1628.8	1639.7	1660.2	1695.2
160°	1753.5	1714.8	1694.3	1676.1	1669.3	1662.5	1669.3	1676.1	1694.3	1714.8	1753.5
162.5°	1808.0	1771.2	1748.9	1732.5	1725.7	1715.3	1725.7	1732.5	1748.9	1771.2	1808.0
165°	1896.7	1858.1	1833.1	1819.4	1810.3	1801.2	1810.3	1819.4	1833.1	1858.1	1896.7
167.5°	1985.4	1943.1	1926.8	1911.3	1902.7	1886.3	1902.7	1911.3	1926.8	1943.1	1985.4
170°	2040.0	2001.4	1992.3	1978.6	1962.7	1944.5	1962.7	1978.6	1992.3	2001.4	2040.0
172.5°	2087.3	2061.4	2052.3	2038.7	2033.7	2019.1	2033.7	2038.7	2052.3	2061.4	2087.3
175°	2156.0	2135.5	2135.5	2133.3	2126.4	2112.8	2126.4	2133.3	2135.5	2135.5	2156.0
177.5°	2213.3	2202.4	2209.7	2209.7	2207.9	2195.1	2207.9	2209.7	2209.7	2202.4	2213.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2074.5	2074.5	2074.5	2074.5
2.5°	2082.1	2085.3	2072.0	2058.7
5°	2081.1	2083.6	2067.0	2050.4
7.5°	2074.2	2076.4	2059.5	2042.5
10°	2064.3	2066.5	2051.9	2037.3
12.5°	2047.3	2049.1	2035.3	2021.5
15°	2019.0	2018.7	2006.1	1993.4
17.5°	1989.6	1986.0	1970.6	1955.2
20°	1968.5	1962.5	1943.9	1925.4
22.5°	1945.2	1937.1	1915.5	1893.8
25°	1904.9	1889.4	1867.9	1846.5
27.5°	1860.5	1833.7	1812.5	1791.2
30°	1826.0	1795.3	1774.8	1754.4
32.5°	1783.9	1751.2	1730.0	1708.8
35°	1714.9	1676.9	1656.4	1635.9
37.5°	1641.2	1598.6	1575.4	1552.2
40°	1592.1	1549.4	1519.2	1489.0
42.5°	1539.5	1505.2	1466.4	1427.6
45°	1445.9	1424.9	1379.1	1333.3
47.5°	1317.5	1323.3	1278.1	1232.9
50°	1219.3	1250.2	1207.3	1164.5
52.5°	1116.9	1163.7	1125.5	1087.3
55°	968.6	1019.7	993.4	967.1
57.5°	819.1	859.4	840.9	822.4
60°	718.6	755.1	740.5	725.9
62.5°	626.2	664.3	651.2	638.1
65°	502.9	542.9	530.2	517.5
67.5°	401.9	439.5	425.7	411.8
70°	342.8	377.9	363.3	348.7
72.5°	293.1	323.7	309.9	296.0
75°	223.0	245.1	234.4	223.7
77.5°	161.4	175.9	169.1	162.3
80°	122.8	133.0	130.1	127.2
82.5°	87.7	93.7	94.6	95.6
85°	44.6	46.5	48.5	50.4
87.5°	21.1	20.8	19.0	17.2
90°	40.9	25.0	15.9	6.8
92.5°	88.2	61.4	43.2	25.0
95°	177.4	141.0	100.1	70.5
97.5°	282.5	223.8	183.3	134.6
100°	338.9	282.0	243.3	191.0
102.5°	400.7	353.0	299.7	247.4
105°	511.7	452.6	391.2	332.0
107.5°	614.5	549.5	475.8	422.6
110°	680.0	609.5	532.2	484.4



TEST NUMBER: P1428143

CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	743.7	671.4	592.2	544.5
115°	830.1	750.5	677.7	636.8
117.5°	913.3	831.5	754.6	722.3
120°	964.3	882.4	807.4	782.3
122.5°	1006.1	926.1	856.5	846.0
125°	1068.9	987.0	927.9	941.5
127.5°	1119.9	1044.8	1007.5	1038.0
130°	1150.8	1084.8	1062.1	1105.3
132.5°	1178.1	1126.7	1116.7	1176.3
135°	1219.0	1189.4	1198.5	1280.4
137.5°	1267.7	1256.3	1286.8	1390.0
140°	1298.6	1305.4	1348.6	1464.6
142.5°	1340.5	1356.4	1412.3	1535.6
145°	1405.5	1439.6	1512.4	1635.2
147.5°	1479.2	1523.3	1613.4	1739.4
150°	1528.3	1585.2	1680.7	1801.2
152.5°	1584.7	1643.4	1738.9	1861.3
155°	1671.6	1737.5	1837.6	1942.2
157.5°	1760.3	1827.6	1923.1	2014.5
160°	1814.9	1887.6	1974.1	2058.2
162.5°	1876.7	1944.0	2019.6	2094.6
165°	1967.2	2021.8	2083.2	2146.9
167.5°	2043.2	2088.7	2136.9	2186.5
170°	2092.3	2128.7	2169.7	2208.3
172.5°	2134.2	2163.3	2193.3	2226.5
175°	2190.1	2206.0	2224.2	2244.7
177.5°	2233.3	2238.8	2244.2	2253.3
180°	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1428143  
 CATALOG NUMBER: SQ2W-PP3-K-150U-100D-L830-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	19.10	19.88	20.11	20.90	22.25	14.87	15.66	15.88	16.67	18.02
	3H	20.15	20.85	21.17	21.88	23.25	16.17	16.87	17.19	17.90	19.27
	4H	20.52	21.18	21.55	22.21	23.59	16.73	17.39	17.76	18.42	19.80
	6H	20.71	21.32	21.75	22.35	23.74	17.09	17.70	18.13	18.73	20.12
	8H	20.77	21.35	21.82	22.40	23.78	17.21	17.79	18.26	18.84	20.23
	12H	20.79	21.34	21.84	22.38	23.79	17.25	17.80	18.30	18.84	20.25
4H	2H	19.21	19.87	20.25	20.90	22.28	15.77	16.43	16.81	17.46	18.84
	3H	20.49	21.04	21.54	22.10	23.49	17.18	17.74	18.23	18.79	20.19
	4H	21.00	21.50	22.05	22.55	23.97	17.80	18.31	18.86	19.35	20.77
	6H	21.31	21.74	22.37	22.81	24.22	18.25	18.68	19.31	19.75	21.16
	8H	21.42	21.82	22.48	22.88	24.31	18.41	18.82	19.48	19.88	21.31
	12H	21.46	21.82	22.54	22.90	24.33	18.46	18.82	19.54	19.90	21.33
8H	4H	21.01	21.42	22.08	22.48	23.91	18.11	18.51	19.17	19.57	21.00
	6H	21.42	21.76	22.51	22.86	24.29	18.66	19.00	19.75	20.10	21.53
	8H	21.60	21.90	22.70	22.98	24.43	18.91	19.20	20.01	20.29	21.74
	12H	21.70	21.95	22.79	23.04	24.52	19.01	19.27	20.11	20.35	21.83
12H	4H	20.97	21.33	22.05	22.41	23.84	18.12	18.48	19.20	19.56	20.99
	6H	21.42	21.71	22.51	22.80	24.24	18.73	19.02	19.82	20.11	21.55
	8H	21.61	21.87	22.71	22.95	24.43	19.00	19.26	20.10	20.34	21.83