

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: P1427976

Luminaire Tested: SQ2W-PH1-K-150U-100D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427976  
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-L835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

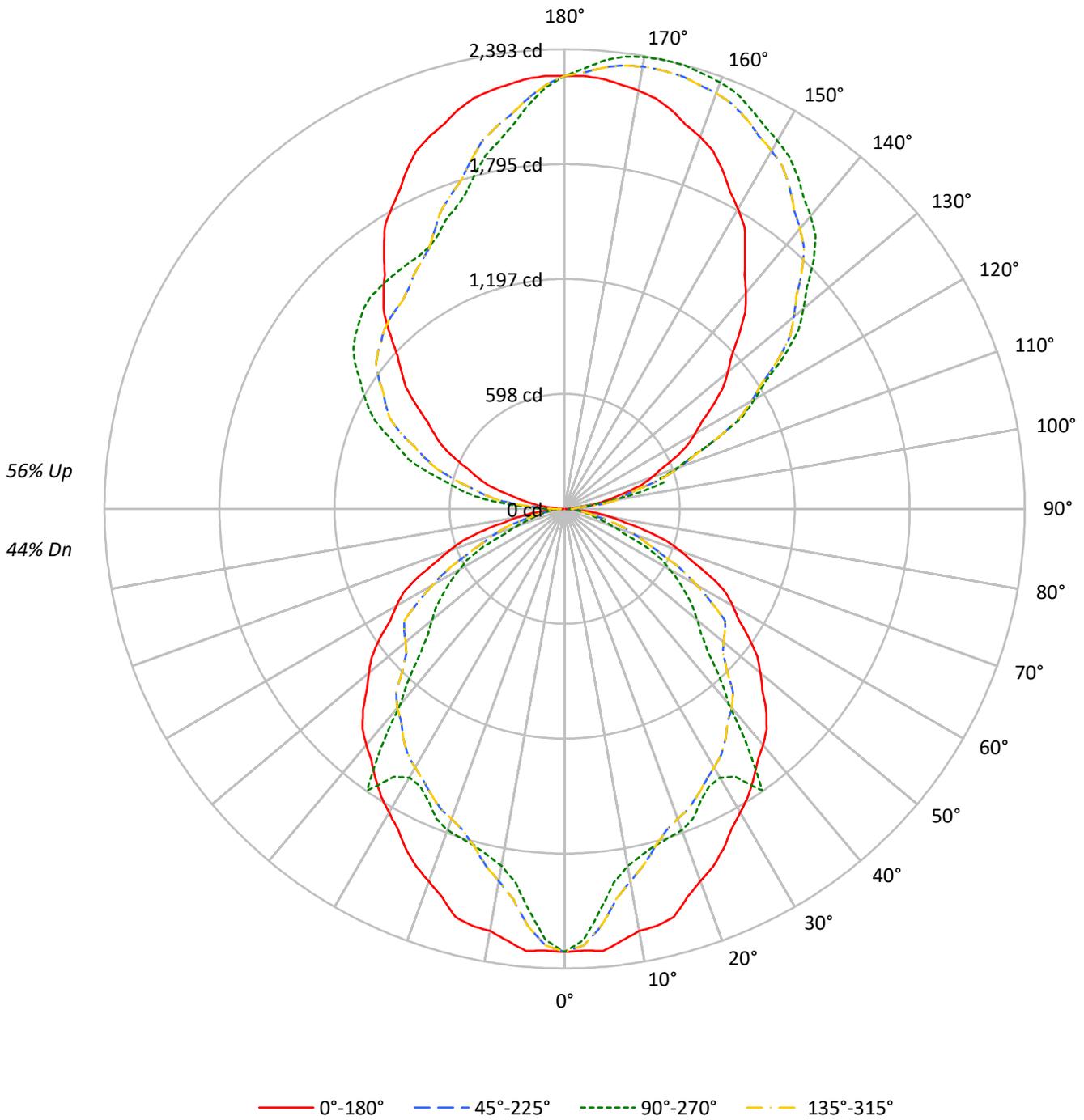
Lumens per Lamp: N/A  
Luminaire Lumens: 11690.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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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CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L835-UNV-STD-W-WM-4

### 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°	37246	37246	37246	37246
5°	37460	34045	37460	34045
10°	36596	30946	36596	30946
15°	36762	30341	36762	30341
20°	35449	30585	35449	30585
25°	34801	29873	34801	29873
30°	34046	30118	34046	30118
35°	33787	35303	33787	35303
40°	33817	27988	33817	27988
45°	33830	24107	33830	24107
50°	33354	22604	33354	22604
55°	32931	21686	32931	21686
60°	32604	20340	32604	20340
65°	32034	17692	32034	17692
70°	30255	12642	30255	12642
75°	26974	9582	26974	9582
80°	22045	8982	22045	8982
85°	13820	6095	13820	6095

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33830 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.0	1.7
10°-20°	533.9	4.6
20°-30°	782.8	6.7
30°-40°	947.9	8.1
40°-50°	932.1	8.0
50°-60°	810.8	6.9
60°-70°	563.9	4.8
70°-80°	267.4	2.3
80°-90°	68.3	0.6
90°-100°	179.4	1.5
100°-110°	523.0	4.5
110°-120°	853.6	7.3
120°-130°	1083.1	9.3
130°-140°	1158.9	9.9
140°-150°	1082.2	9.3
150°-160°	890.5	7.6
160°-170°	597.2	5.1
170°-180°	212.1	1.8
0°-30°	1519.7	13.0
0°-40°	2467.6	21.1
0°-60°	4210.4	36.0
0°-90°	5110.0	43.7
90°-120°	1556.0	13.3
90°-150°	4880.2	41.7
90°-180°	6580.0	56.3
0°-180°	11690.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2307	2307	2307	2307	2307	
5°	2311	2101	2311	2101	2311	217
15°	2199	1815	2199	1815	2199	613
25°	1954	1677	1954	1677	1954	898
35°	1714	1791	1714	1791	1714	1074
45°	1482	1056	1482	1056	1482	1139
55°	1170	770	1170	770	1170	1045
65°	838	463	838	463	838	824
75°	432	154	432	154	432	458
85°	75	33	75	33	75	100
90°	7	50	7	98	7	8
95°	71	52	71	307	71	85
105°	332	533	332	733	332	353
115°	637	883	637	1088	637	628
125°	942	1400	942	1334	942	843
135°	1282	1832	1282	1477	1282	990
145°	1637	2112	1637	1509	1637	1024
155°	1944	2294	1944	1566	1944	894
165°	2149	2392	2149	1803	2149	605
175°	2247	2342	2247	2115	2247	213
180°	2254	2254	2254	2254	2254	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2301.6	2312.5	2323.5	2308.0	2283.9	2267.1	2257.7	2250.3	2248.7	2247.2	2248.7
5°	2311.3	2310.3	2309.3	2263.7	2203.2	2157.9	2127.6	2104.5	2102.5	2100.6	2102.5
7.5°	2269.1	2238.9	2208.6	2147.4	2075.8	2023.3	1989.9	1964.5	1963.0	1961.4	1963.0
10°	2232.2	2186.4	2140.5	2071.3	1994.2	1940.6	1910.3	1887.6	1887.6	1887.6	1887.6
12.5°	2223.5	2151.1	2078.7	2002.8	1925.7	1876.0	1853.5	1837.9	1842.6	1847.3	1842.6
15°	2199.3	2090.1	1980.8	1903.7	1837.4	1801.3	1795.5	1793.7	1804.5	1815.2	1804.5
17.5°	2119.4	2001.8	1884.1	1816.4	1765.3	1745.9	1758.4	1770.9	1783.4	1795.9	1783.4
20°	2063.2	1947.2	1831.1	1768.4	1723.5	1712.8	1736.2	1756.7	1768.4	1780.1	1768.4
22.5°	2015.8	1898.2	1780.5	1725.1	1690.3	1685.9	1711.6	1732.5	1738.7	1745.0	1738.7
25°	1953.5	1820.8	1688.1	1647.7	1637.9	1644.3	1666.7	1682.8	1679.9	1676.9	1679.9
27.5°	1878.9	1740.3	1601.8	1575.8	1587.3	1599.9	1613.6	1624.3	1626.0	1627.8	1626.0
30°	1826.2	1687.7	1549.1	1528.4	1546.9	1563.0	1576.7	1590.1	1602.8	1615.5	1602.8
32.5°	1775.3	1632.1	1488.8	1474.0	1501.9	1532.0	1564.4	1596.0	1625.0	1654.1	1625.0
35°	1714.2	1565.0	1415.7	1404.0	1438.2	1482.1	1535.7	1599.9	1695.5	1791.1	1695.5
37.5°	1650.2	1490.2	1330.2	1324.9	1371.1	1417.3	1463.6	1505.9	1536.3	1566.7	1536.3
40°	1604.5	1436.7	1268.9	1268.7	1324.3	1381.8	1441.3	1468.4	1398.2	1327.9	1398.2
42.5°	1555.3	1387.5	1219.7	1214.8	1264.2	1327.6	1405.1	1433.5	1314.9	1196.2	1314.9
45°	1481.6	1307.0	1132.3	1126.0	1175.8	1210.9	1231.4	1225.5	1140.6	1055.8	1140.6
47.5°	1394.7	1228.2	1061.8	1060.4	1114.1	1118.0	1072.2	1029.5	996.3	963.1	996.3
50°	1327.9	1170.9	1013.8	1020.6	1082.1	1076.2	1003.1	942.8	921.4	899.9	921.4
52.5°	1263.0	1113.7	964.5	982.6	1056.5	1044.8	947.5	870.9	856.4	842.0	856.4
55°	1169.9	1026.5	883.1	924.1	1026.5	1010.9	877.2	776.3	773.3	770.4	773.3
57.5°	1071.1	935.5	799.9	828.4	911.5	895.1	779.2	693.6	698.6	703.7	698.6
60°	1009.7	878.0	746.3	749.9	798.7	783.1	703.1	641.7	635.8	629.9	635.8
62.5°	944.7	819.2	693.8	675.6	693.2	674.8	620.6	578.4	572.6	566.7	572.6
65°	838.5	724.3	610.2	575.8	568.0	541.7	496.8	463.1	463.1	463.1	463.1
67.5°	721.7	622.2	522.7	484.2	466.1	439.9	405.8	374.3	350.9	327.5	350.9
70°	640.9	553.1	465.3	425.1	400.7	369.5	331.4	299.0	283.4	267.8	283.4
72.5°	554.9	479.6	404.3	363.0	333.2	302.8	271.7	244.0	226.0	208.1	226.0
75°	432.4	371.9	311.4	271.4	238.3	207.5	179.3	157.5	155.6	153.6	155.6
77.5°	312.6	268.5	224.4	192.0	163.5	142.1	127.9	117.3	117.5	117.6	117.5
80°	237.1	203.9	170.7	140.5	111.2	96.1	95.1	94.6	95.6	96.6	95.6
82.5°	166.8	142.2	117.6	98.3	80.8	72.7	74.0	75.1	75.3	75.5	75.3
85°	74.6	62.9	51.2	46.8	44.9	41.9	38.0	34.9	33.9	32.9	33.9
87.5°	17.2	18.2	19.7	19.6	18.6	17.9	17.9	18.3	18.8	18.8	18.8
90°	6.8	15.9	27.3	36.4	43.3	45.5	45.5	47.8	50.1	50.1	50.1
92.5°	25.0	39.6	40.1	40.1	48.7	52.8	56.5	56.9	59.2	59.2	59.2
95°	70.6	77.4	116.1	113.8	77.4	61.5	52.4	52.4	52.4	52.4	52.4
97.5°	134.8	144.8	151.1	202.6	214.0	206.7	168.4	141.6	126.6	119.7	126.6
100°	191.2	195.8	209.4	211.7	268.6	323.2	295.9	261.8	250.4	243.6	250.4
102.5°	247.7	250.4	271.3	280.9	294.1	325.1	419.8	409.3	401.5	400.2	401.5
105°	332.3	334.6	373.3	391.5	400.6	400.6	398.4	443.9	516.7	532.7	516.7
107.5°	422.9	433.4	478.9	527.7	538.1	540.9	529.0	522.2	519.5	521.3	519.5
110°	484.9	500.8	555.4	616.9	632.8	637.4	632.8	626.0	621.4	621.4	621.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	545.0	568.2	630.1	700.7	727.5	741.2	731.2	726.1	721.6	725.2	721.6
115°	637.4	671.5	753.5	826.3	880.9	887.8	885.5	885.5	883.2	883.2	883.2
117.5°	723.0	777.6	869.6	954.2	1017.5	1035.7	1044.8	1042.1	1039.4	1043.9	1039.4
120°	783.1	846.8	951.5	1047.1	1108.6	1135.9	1145.0	1140.4	1145.0	1140.4	1145.0
122.5°	846.8	925.1	1028.0	1127.2	1199.6	1230.6	1241.5	1242.4	1243.3	1240.6	1243.3
125°	942.4	1038.0	1158.6	1261.1	1336.2	1372.6	1381.7	1384.0	1388.6	1399.9	1388.6
127.5°	1038.9	1147.3	1279.7	1378.5	1455.5	1499.6	1513.8	1518.8	1528.3	1533.3	1528.3
130°	1106.3	1229.2	1363.5	1456.8	1532.0	1579.8	1604.8	1611.6	1623.0	1620.7	1623.0
132.5°	1177.3	1305.7	1441.8	1538.8	1608.4	1659.9	1681.3	1700.9	1705.0	1708.2	1705.0
135°	1281.6	1420.4	1557.0	1652.6	1718.6	1768.7	1796.0	1814.2	1825.6	1832.4	1825.6
137.5°	1391.3	1537.9	1669.0	1754.1	1820.6	1863.9	1894.8	1913.9	1925.8	1931.2	1925.8
140°	1466.0	1607.1	1734.6	1823.3	1882.5	1925.8	1953.1	1975.8	1989.5	1989.5	1989.5
142.5°	1537.0	1676.3	1800.1	1888.9	1940.8	1980.4	2009.5	2026.8	2042.3	2042.3	2042.3
145°	1636.7	1775.5	1889.3	1978.1	2021.4	2057.8	2089.7	2103.3	2112.4	2112.4	2112.4
147.5°	1740.9	1863.9	1967.7	2052.8	2089.2	2132.0	2157.0	2168.0	2179.4	2174.3	2179.4
150°	1802.8	1916.7	2016.8	2096.5	2132.9	2173.9	2198.9	2208.0	2219.4	2212.6	2219.4
152.5°	1862.9	1971.3	2062.3	2136.6	2167.5	2208.5	2237.2	2246.3	2254.0	2249.0	2254.0
155°	1944.0	2039.6	2123.8	2192.1	2219.4	2258.1	2285.4	2296.8	2305.9	2294.5	2305.9
157.5°	2016.4	2098.8	2172.1	2234.9	2264.0	2297.3	2322.8	2336.9	2346.0	2341.0	2346.0
160°	2060.1	2135.2	2201.2	2260.4	2287.7	2317.3	2344.6	2360.5	2369.7	2362.8	2369.7
162.5°	2096.5	2164.3	2226.7	2280.4	2304.1	2330.0	2362.8	2376.9	2386.0	2377.4	2386.0
165°	2148.8	2203.5	2258.1	2303.6	2324.1	2344.6	2378.8	2394.7	2401.5	2392.4	2401.5
167.5°	2188.5	2230.3	2274.5	2313.7	2328.7	2348.7	2382.9	2396.1	2404.7	2393.3	2404.7
170°	2210.3	2246.7	2285.4	2317.3	2328.7	2346.9	2381.0	2392.4	2399.2	2387.9	2399.2
172.5°	2228.5	2255.8	2287.2	2315.5	2321.4	2336.0	2368.3	2379.7	2384.7	2375.1	2384.7
175°	2246.7	2262.7	2285.4	2303.6	2301.4	2310.5	2337.8	2346.9	2356.0	2342.3	2356.0
177.5°	2255.4	2262.7	2269.9	2280.9	2273.6	2273.6	2293.6	2299.1	2300.9	2293.6	2300.9
180°	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2250.3	2257.7	2267.1	2283.9	2308.0	2323.5	2312.5	2301.6	2312.5	2323.5	2308.0
5°	2104.5	2127.6	2157.9	2203.2	2263.7	2309.3	2310.3	2311.3	2310.3	2309.3	2263.7
7.5°	1964.5	1989.9	2023.3	2075.8	2147.4	2208.6	2238.9	2269.1	2238.9	2208.6	2147.4
10°	1887.6	1910.3	1940.6	1994.2	2071.3	2140.5	2186.4	2232.2	2186.4	2140.5	2071.3
12.5°	1837.9	1853.5	1876.0	1925.7	2002.8	2078.7	2151.1	2223.5	2151.1	2078.7	2002.8
15°	1793.7	1795.5	1801.3	1837.4	1903.7	1980.8	2090.1	2199.3	2090.1	1980.8	1903.7
17.5°	1770.9	1758.4	1745.9	1765.3	1816.4	1884.1	2001.8	2119.4	2001.8	1884.1	1816.4
20°	1756.7	1736.2	1712.8	1723.5	1768.4	1831.1	1947.2	2063.2	1947.2	1831.1	1768.4
22.5°	1732.5	1711.6	1685.9	1690.3	1725.1	1780.5	1898.2	2015.8	1898.2	1780.5	1725.1
25°	1682.8	1666.7	1644.3	1637.9	1647.7	1688.1	1820.8	1953.5	1820.8	1688.1	1647.7
27.5°	1624.3	1613.6	1599.9	1587.3	1575.8	1601.8	1740.3	1878.9	1740.3	1601.8	1575.8
30°	1590.1	1576.7	1563.0	1546.9	1528.4	1549.1	1687.7	1826.2	1687.7	1549.1	1528.4
32.5°	1596.0	1564.4	1532.0	1501.9	1474.0	1488.8	1632.1	1775.3	1632.1	1488.8	1474.0
35°	1599.9	1535.7	1482.1	1438.2	1404.0	1415.7	1565.0	1714.2	1565.0	1415.7	1404.0
37.5°	1505.9	1463.6	1417.3	1371.1	1324.9	1330.2	1490.2	1650.2	1490.2	1330.2	1324.9
40°	1468.4	1441.3	1381.8	1324.3	1268.7	1268.9	1436.7	1604.5	1436.7	1268.9	1268.7
42.5°	1433.5	1405.1	1327.6	1264.2	1214.8	1219.7	1387.5	1555.3	1387.5	1219.7	1214.8
45°	1225.5	1231.4	1210.9	1175.8	1126.0	1132.3	1307.0	1481.6	1307.0	1132.3	1126.0
47.5°	1029.5	1072.2	1118.0	1114.1	1060.4	1061.8	1228.2	1394.7	1228.2	1061.8	1060.4
50°	942.8	1003.1	1076.2	1082.1	1020.6	1013.8	1170.9	1327.9	1170.9	1013.8	1020.6
52.5°	870.9	947.5	1044.8	1056.5	982.6	964.5	1113.7	1263.0	1113.7	964.5	982.6
55°	776.3	877.2	1010.9	1026.5	924.1	883.1	1026.5	1169.9	1026.5	883.1	924.1
57.5°	693.6	779.2	895.1	911.5	828.4	799.9	935.5	1071.1	935.5	799.9	828.4
60°	641.7	703.1	783.1	798.7	749.9	746.3	878.0	1009.7	878.0	746.3	749.9
62.5°	578.4	620.6	674.8	693.2	675.6	693.8	819.2	944.7	819.2	693.8	675.6
65°	463.1	496.8	541.7	568.0	575.8	610.2	724.3	838.5	724.3	610.2	575.8
67.5°	374.3	405.8	439.9	466.1	484.2	522.7	622.2	721.7	622.2	522.7	484.2
70°	299.0	331.4	369.5	400.7	425.1	465.3	553.1	640.9	553.1	465.3	425.1
72.5°	244.0	271.7	302.8	333.2	363.0	404.3	479.6	554.9	479.6	404.3	363.0
75°	157.5	179.3	207.5	238.3	271.4	311.4	371.9	432.4	371.9	311.4	271.4
77.5°	117.3	127.9	142.1	163.5	192.0	224.4	268.5	312.6	268.5	224.4	192.0
80°	94.6	95.1	96.1	111.2	140.5	170.7	203.9	237.1	203.9	170.7	140.5
82.5°	75.1	74.0	72.7	80.8	98.3	117.6	142.2	166.8	142.2	117.6	98.3
85°	34.9	38.0	41.9	44.9	46.8	51.2	62.9	74.6	62.9	51.2	46.8
87.5°	18.3	17.9	17.9	18.6	19.6	19.7	18.2	17.2	18.2	19.3	20.5
90°	47.8	45.5	45.5	43.3	36.4	27.3	15.9	6.8	15.9	25.0	41.0
92.5°	56.9	56.5	52.8	48.7	40.1	40.1	39.6	25.0	43.3	61.5	88.3
95°	52.4	52.4	61.5	77.4	113.8	116.1	77.4	70.6	100.2	141.1	177.6
97.5°	141.6	168.4	206.7	214.0	202.6	151.1	144.8	134.8	183.5	224.0	282.7
100°	261.8	295.9	323.2	268.6	211.7	209.4	195.8	191.2	243.6	282.3	339.2
102.5°	409.3	419.8	325.1	294.1	280.9	271.3	250.4	247.7	300.0	353.3	401.1
105°	443.9	398.4	400.6	400.6	391.5	373.3	334.6	332.3	391.5	453.0	512.2
107.5°	522.2	529.0	540.9	538.1	527.7	478.9	433.4	422.9	476.2	550.0	615.1
110°	626.0	632.8	637.4	632.8	616.9	555.4	500.8	484.9	532.7	610.1	680.6



TEST NUMBER: P1427976

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	726.1	731.2	741.2	727.5	700.7	630.1	568.2	545.0	592.8	672.0	744.4
115°	885.5	885.5	887.8	880.9	826.3	753.5	671.5	637.4	678.3	751.2	830.9
117.5°	1042.1	1044.8	1035.7	1017.5	954.2	869.6	777.6	723.0	755.3	832.2	914.2
120°	1140.4	1145.0	1135.9	1108.6	1047.1	951.5	846.8	783.1	808.1	883.2	965.2
122.5°	1242.4	1241.5	1230.6	1199.6	1127.2	1028.0	925.1	846.8	857.3	926.9	1007.0
125°	1384.0	1381.7	1372.6	1336.2	1261.1	1158.6	1038.0	942.4	928.7	987.9	1069.9
127.5°	1518.8	1513.8	1499.6	1455.5	1378.5	1279.7	1147.3	1038.9	1008.4	1045.7	1120.9
130°	1611.6	1604.8	1579.8	1532.0	1456.8	1363.5	1229.2	1106.3	1063.0	1085.8	1151.8
132.5°	1700.9	1681.3	1659.9	1608.4	1538.8	1441.8	1305.7	1177.3	1117.7	1127.7	1179.1
135°	1814.2	1796.0	1768.7	1718.6	1652.6	1557.0	1420.4	1281.6	1199.6	1190.5	1220.1
137.5°	1913.9	1894.8	1863.9	1820.6	1754.1	1669.0	1537.9	1391.3	1287.9	1257.4	1268.8
140°	1975.8	1953.1	1925.8	1882.5	1823.3	1734.6	1607.1	1466.0	1349.9	1306.6	1299.8
142.5°	2026.8	2009.5	1980.4	1940.8	1888.9	1800.1	1676.3	1537.0	1413.6	1357.6	1341.7
145°	2103.3	2089.7	2057.8	2021.4	1978.1	1889.3	1775.5	1636.7	1513.8	1440.9	1406.8
147.5°	2168.0	2157.0	2132.0	2089.2	2052.8	1967.7	1863.9	1740.9	1614.8	1524.7	1480.5
150°	2208.0	2198.9	2173.9	2132.9	2096.5	2016.8	1916.7	1802.8	1682.2	1586.6	1529.7
152.5°	2246.3	2237.2	2208.5	2167.5	2136.6	2062.3	1971.3	1862.9	1740.5	1644.9	1586.1
155°	2296.8	2285.4	2258.1	2219.4	2192.1	2123.8	2039.6	1944.0	1839.3	1739.1	1673.1
157.5°	2336.9	2322.8	2297.3	2264.0	2234.9	2172.1	2098.8	2016.4	1924.9	1829.3	1761.9
160°	2360.5	2344.6	2317.3	2287.7	2260.4	2201.2	2135.2	2060.1	1975.8	1889.3	1816.5
162.5°	2376.9	2362.8	2330.0	2304.1	2280.4	2226.7	2164.3	2096.5	2021.4	1945.8	1878.4
165°	2394.7	2378.8	2344.6	2324.1	2303.6	2258.1	2203.5	2148.8	2085.1	2023.7	1969.0
167.5°	2396.1	2382.9	2348.7	2328.7	2313.7	2274.5	2230.3	2188.5	2138.8	2090.6	2045.0
170°	2392.4	2381.0	2346.9	2328.7	2317.3	2285.4	2246.7	2210.3	2171.6	2130.6	2094.2
172.5°	2379.7	2368.3	2336.0	2321.4	2315.5	2287.2	2255.8	2228.5	2195.3	2165.2	2136.1
175°	2346.9	2337.8	2310.5	2301.4	2303.6	2285.4	2262.7	2246.7	2226.2	2208.0	2192.1
177.5°	2299.1	2293.6	2273.6	2273.6	2280.9	2269.9	2262.7	2255.4	2246.3	2240.8	2235.3
180°	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6



TEST NUMBER: P1427976

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2283.9	2267.1	2257.7	2250.3	2248.7	2247.2	2248.7	2250.3	2257.7	2267.1	2283.9
5°	2203.2	2157.9	2127.6	2104.5	2102.5	2100.6	2102.5	2104.5	2127.6	2157.9	2203.2
7.5°	2075.8	2023.3	1989.9	1964.5	1963.0	1961.4	1963.0	1964.5	1989.9	2023.3	2075.8
10°	1994.2	1940.6	1910.3	1887.6	1887.6	1887.6	1887.6	1887.6	1910.3	1940.6	1994.2
12.5°	1925.7	1876.0	1853.5	1837.9	1842.6	1847.3	1842.6	1837.9	1853.5	1876.0	1925.7
15°	1837.4	1801.3	1795.5	1793.7	1804.5	1815.2	1804.5	1793.7	1795.5	1801.3	1837.4
17.5°	1765.3	1745.9	1758.4	1770.9	1783.4	1795.9	1783.4	1770.9	1758.4	1745.9	1765.3
20°	1723.5	1712.8	1736.2	1756.7	1768.4	1780.1	1768.4	1756.7	1736.2	1712.8	1723.5
22.5°	1690.3	1685.9	1711.6	1732.5	1738.7	1745.0	1738.7	1732.5	1711.6	1685.9	1690.3
25°	1637.9	1644.3	1666.7	1682.8	1679.9	1676.9	1679.9	1682.8	1666.7	1644.3	1637.9
27.5°	1587.3	1599.9	1613.6	1624.3	1626.0	1627.8	1626.0	1624.3	1613.6	1599.9	1587.3
30°	1546.9	1563.0	1576.7	1590.1	1602.8	1615.5	1602.8	1590.1	1576.7	1563.0	1546.9
32.5°	1501.9	1532.0	1564.4	1596.0	1625.0	1654.1	1625.0	1596.0	1564.4	1532.0	1501.9
35°	1438.2	1482.1	1535.7	1599.9	1695.5	1791.1	1695.5	1599.9	1535.7	1482.1	1438.2
37.5°	1371.1	1417.3	1463.6	1505.9	1536.3	1566.7	1536.3	1505.9	1463.6	1417.3	1371.1
40°	1324.3	1381.8	1441.3	1468.4	1398.2	1327.9	1398.2	1468.4	1441.3	1381.8	1324.3
42.5°	1264.2	1327.6	1405.1	1433.5	1314.9	1196.2	1314.9	1433.5	1405.1	1327.6	1264.2
45°	1175.8	1210.9	1231.4	1225.5	1140.6	1055.8	1140.6	1225.5	1231.4	1210.9	1175.8
47.5°	1114.1	1118.0	1072.2	1029.5	996.3	963.1	996.3	1029.5	1072.2	1118.0	1114.1
50°	1082.1	1076.2	1003.1	942.8	921.4	899.9	921.4	942.8	1003.1	1076.2	1082.1
52.5°	1056.5	1044.8	947.5	870.9	856.4	842.0	856.4	870.9	947.5	1044.8	1056.5
55°	1026.5	1010.9	877.2	776.3	773.3	770.4	773.3	776.3	877.2	1010.9	1026.5
57.5°	911.5	895.1	779.2	693.6	698.6	703.7	698.6	693.6	779.2	895.1	911.5
60°	798.7	783.1	703.1	641.7	635.8	629.9	635.8	641.7	703.1	783.1	798.7
62.5°	693.2	674.8	620.6	578.4	572.6	566.7	572.6	578.4	620.6	674.8	693.2
65°	568.0	541.7	496.8	463.1	463.1	463.1	463.1	463.1	496.8	541.7	568.0
67.5°	466.1	439.9	405.8	374.3	350.9	327.5	350.9	374.3	405.8	439.9	466.1
70°	400.7	369.5	331.4	299.0	283.4	267.8	283.4	299.0	331.4	369.5	400.7
72.5°	333.2	302.8	271.7	244.0	226.0	208.1	226.0	244.0	271.7	302.8	333.2
75°	238.3	207.5	179.3	157.5	155.6	153.6	155.6	157.5	179.3	207.5	238.3
77.5°	163.5	142.1	127.9	117.3	117.5	117.6	117.5	117.3	127.9	142.1	163.5
80°	111.2	96.1	95.1	94.6	95.6	96.6	95.6	94.6	95.1	96.1	111.2
82.5°	80.8	72.7	74.0	75.1	75.3	75.5	75.3	75.1	74.0	72.7	80.8
85°	44.9	41.9	38.0	34.9	33.9	32.9	33.9	34.9	38.0	41.9	44.9
87.5°	20.4	22.4	25.6	27.4	29.3	28.4	29.3	27.4	25.6	22.4	20.4
90°	52.4	68.3	84.2	93.3	102.4	97.9	102.4	93.3	84.2	68.3	52.4
92.5°	105.2	132.0	151.6	168.0	175.3	174.4	175.3	168.0	151.6	132.0	105.2
95°	211.7	243.6	275.4	298.2	311.9	307.3	311.9	298.2	275.4	243.6	211.7
97.5°	326.4	369.2	404.7	426.1	439.8	448.9	439.8	426.1	404.7	369.2	326.4
100°	402.9	443.9	484.9	509.9	532.7	541.8	532.7	509.9	484.9	443.9	402.9
102.5°	464.8	518.5	563.2	590.0	609.1	618.2	609.1	590.0	563.2	518.5	464.8
105°	566.8	623.7	671.5	705.7	726.1	733.0	726.1	705.7	671.5	623.7	566.8
107.5°	668.8	727.5	771.7	809.5	834.5	849.1	834.5	809.5	771.7	727.5	668.8
110°	748.9	796.7	844.5	878.7	903.7	912.8	903.7	878.7	844.5	796.7	748.9



TEST NUMBER: P1427976

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	816.3	869.6	917.4	951.5	980.2	992.9	980.2	951.5	917.4	869.6	816.3
115°	910.5	981.1	1024.3	1056.2	1076.7	1088.1	1076.7	1056.2	1024.3	981.1	910.5
117.5°	988.8	1062.6	1109.9	1134.5	1144.1	1152.3	1144.1	1134.5	1109.9	1062.6	988.8
120°	1038.0	1106.3	1160.9	1192.8	1204.2	1208.7	1204.2	1192.8	1160.9	1106.3	1038.0
122.5°	1083.5	1148.2	1201.0	1240.1	1258.8	1263.4	1258.8	1240.1	1201.0	1148.2	1083.5
125°	1147.3	1208.7	1263.4	1302.1	1322.5	1333.9	1322.5	1302.1	1263.4	1208.7	1147.3
127.5°	1202.8	1269.3	1319.4	1354.4	1374.4	1383.5	1374.4	1354.4	1319.4	1269.3	1202.8
130°	1233.8	1302.1	1352.1	1390.8	1409.0	1418.1	1409.0	1390.8	1352.1	1302.1	1233.8
132.5°	1257.4	1329.4	1381.3	1416.3	1436.4	1445.5	1436.4	1416.3	1381.3	1329.4	1257.4
135°	1286.1	1361.2	1415.9	1450.0	1468.2	1477.3	1468.2	1450.0	1415.9	1361.2	1286.1
137.5°	1311.2	1379.5	1436.4	1472.3	1488.7	1494.6	1488.7	1472.3	1436.4	1379.5	1311.2
140°	1329.4	1388.6	1445.5	1479.6	1497.8	1500.1	1497.8	1479.6	1445.5	1388.6	1329.4
142.5°	1353.0	1399.5	1449.1	1483.3	1501.5	1505.6	1501.5	1483.3	1449.1	1399.5	1353.0
145°	1395.4	1422.7	1456.8	1488.7	1504.6	1509.2	1504.6	1488.7	1456.8	1422.7	1395.4
147.5°	1448.7	1457.3	1475.1	1496.0	1511.5	1514.7	1511.5	1496.0	1475.1	1457.3	1448.7
150°	1488.7	1486.4	1493.3	1506.9	1520.6	1518.3	1520.6	1506.9	1493.3	1486.4	1488.7
152.5°	1534.2	1521.0	1520.6	1527.0	1533.3	1532.9	1533.3	1527.0	1520.6	1521.0	1534.2
155°	1611.6	1586.6	1572.9	1568.4	1568.4	1566.1	1568.4	1568.4	1572.9	1586.6	1611.6
157.5°	1696.8	1661.7	1641.2	1630.3	1627.1	1622.1	1627.1	1630.3	1641.2	1661.7	1696.8
160°	1755.0	1716.3	1695.9	1677.6	1670.8	1664.0	1670.8	1677.6	1695.9	1716.3	1755.0
162.5°	1809.7	1772.8	1750.5	1734.1	1727.3	1716.8	1727.3	1734.1	1750.5	1772.8	1809.7
165°	1898.5	1859.8	1834.7	1821.1	1812.0	1802.8	1812.0	1821.1	1834.7	1859.8	1898.5
167.5°	1987.2	1944.9	1928.5	1913.0	1904.4	1888.0	1904.4	1913.0	1928.5	1944.9	1987.2
170°	2041.9	2003.2	1994.1	1980.4	1964.5	1946.3	1964.5	1980.4	1994.1	2003.2	2041.9
172.5°	2089.2	2063.3	2054.2	2040.5	2035.5	2020.9	2035.5	2040.5	2054.2	2063.3	2089.2
175°	2158.0	2137.5	2137.5	2135.2	2128.4	2114.7	2128.4	2135.2	2137.5	2137.5	2158.0
177.5°	2215.3	2204.4	2211.7	2211.7	2209.9	2197.1	2209.9	2211.7	2211.7	2204.4	2215.3
180°	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6	2253.6



TEST NUMBER: P1427976

CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2306.9	2306.9	2306.9	2306.9
2.5°	2308.0	2323.5	2312.5	2301.6
5°	2263.7	2309.3	2310.3	2311.3
7.5°	2147.4	2208.6	2238.9	2269.1
10°	2071.3	2140.5	2186.4	2232.2
12.5°	2002.8	2078.7	2151.1	2223.5
15°	1903.7	1980.8	2090.1	2199.3
17.5°	1816.4	1884.1	2001.8	2119.4
20°	1768.4	1831.1	1947.2	2063.2
22.5°	1725.1	1780.5	1898.2	2015.8
25°	1647.7	1688.1	1820.8	1953.5
27.5°	1575.8	1601.8	1740.3	1878.9
30°	1528.4	1549.1	1687.7	1826.2
32.5°	1474.0	1488.8	1632.1	1775.3
35°	1404.0	1415.7	1565.0	1714.2
37.5°	1324.9	1330.2	1490.2	1650.2
40°	1268.7	1268.9	1436.7	1604.5
42.5°	1214.8	1219.7	1387.5	1555.3
45°	1126.0	1132.3	1307.0	1481.6
47.5°	1060.4	1061.8	1228.2	1394.7
50°	1020.6	1013.8	1170.9	1327.9
52.5°	982.6	964.5	1113.7	1263.0
55°	924.1	883.1	1026.5	1169.9
57.5°	828.4	799.9	935.5	1071.1
60°	749.9	746.3	878.0	1009.7
62.5°	675.6	693.8	819.2	944.7
65°	575.8	610.2	724.3	838.5
67.5°	484.2	522.7	622.2	721.7
70°	425.1	465.3	553.1	640.9
72.5°	363.0	404.3	479.6	554.9
75°	271.4	311.4	371.9	432.4
77.5°	192.0	224.4	268.5	312.6
80°	140.5	170.7	203.9	237.1
82.5°	98.3	117.6	142.2	166.8
85°	46.8	51.2	62.9	74.6
87.5°	20.5	19.3	18.2	17.2
90°	41.0	25.0	15.9	6.8
92.5°	88.3	61.5	43.3	25.0
95°	177.6	141.1	100.2	70.6
97.5°	282.7	224.0	183.5	134.8
100°	339.2	282.3	243.6	191.2
102.5°	401.1	353.3	300.0	247.7
105°	512.2	453.0	391.5	332.3
107.5°	615.1	550.0	476.2	422.9
110°	680.6	610.1	532.7	484.9



TEST NUMBER: P1427976

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	744.4	672.0	592.8	545.0
115°	830.9	751.2	678.3	637.4
117.5°	914.2	832.2	755.3	723.0
120°	965.2	883.2	808.1	783.1
122.5°	1007.0	926.9	857.3	846.8
125°	1069.9	987.9	928.7	942.4
127.5°	1120.9	1045.7	1008.4	1038.9
130°	1151.8	1085.8	1063.0	1106.3
132.5°	1179.1	1127.7	1117.7	1177.3
135°	1220.1	1190.5	1199.6	1281.6
137.5°	1268.8	1257.4	1287.9	1391.3
140°	1299.8	1306.6	1349.9	1466.0
142.5°	1341.7	1357.6	1413.6	1537.0
145°	1406.8	1440.9	1513.8	1636.7
147.5°	1480.5	1524.7	1614.8	1740.9
150°	1529.7	1586.6	1682.2	1802.8
152.5°	1586.1	1644.9	1740.5	1862.9
155°	1673.1	1739.1	1839.3	1944.0
157.5°	1761.9	1829.3	1924.9	2016.4
160°	1816.5	1889.3	1975.8	2060.1
162.5°	1878.4	1945.8	2021.4	2096.5
165°	1969.0	2023.7	2085.1	2148.8
167.5°	2045.0	2090.6	2138.8	2188.5
170°	2094.2	2130.6	2171.6	2210.3
172.5°	2136.1	2165.2	2195.3	2228.5
175°	2192.1	2208.0	2226.2	2246.7
177.5°	2235.3	2240.8	2246.3	2255.4
180°	2253.6	2253.6	2253.6	2253.6



TEST NUMBER: P1427976  
 CATALOG NUMBER: SQ2W-PH1-K-150U-100D-L835-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	18.83	19.63	19.84	20.65	22.01	17.66	18.46	18.67	19.48	20.84
	3H	21.00	21.72	22.02	22.75	24.13	18.71	19.42	19.73	20.45	21.83
	4H	21.81	22.49	22.85	23.52	24.91	18.95	19.63	19.98	20.66	22.04
	6H	22.28	22.90	23.32	23.94	25.33	19.09	19.71	20.13	20.75	22.14
	8H	22.43	23.02	23.47	24.07	25.47	19.14	19.74	20.19	20.79	22.18
	12H	22.48	23.05	23.54	24.09	25.51	19.15	19.72	20.20	20.76	22.18
4H	2H	19.26	19.94	20.30	20.97	22.36	18.34	19.02	19.38	20.05	21.43
	3H	21.50	22.07	22.55	23.13	24.53	19.56	20.13	20.61	21.18	22.58
	4H	22.38	22.89	23.43	23.94	25.37	19.85	20.37	20.90	21.42	22.84
	6H	22.93	23.38	24.00	24.45	25.87	20.04	20.49	21.11	21.56	22.98
	8H	23.13	23.55	24.20	24.61	26.05	20.13	20.55	21.20	21.61	23.05
	12H	23.21	23.59	24.30	24.67	26.11	20.15	20.53	21.24	21.61	23.05
8H	4H	22.39	22.81	23.46	23.87	25.31	20.07	20.49	21.14	21.55	22.99
	6H	23.02	23.36	24.11	24.47	25.90	20.34	20.68	21.43	21.79	23.22
	8H	23.28	23.58	24.38	24.67	26.12	20.48	20.78	21.58	21.88	23.33
	12H	23.41	23.67	24.51	24.76	26.25	20.55	20.81	21.65	21.90	23.39
12H	4H	22.34	22.72	23.43	23.80	25.24	20.07	20.44	21.15	21.52	22.96
	6H	23.00	23.30	24.09	24.39	25.84	20.37	20.67	21.47	21.77	23.21
	8H	23.26	23.53	24.36	24.62	26.10	20.53	20.80	21.63	21.88	23.37