

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: P1428439

Luminaire Tested: SQ2W-PW1-K-100U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428439
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-100U-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 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

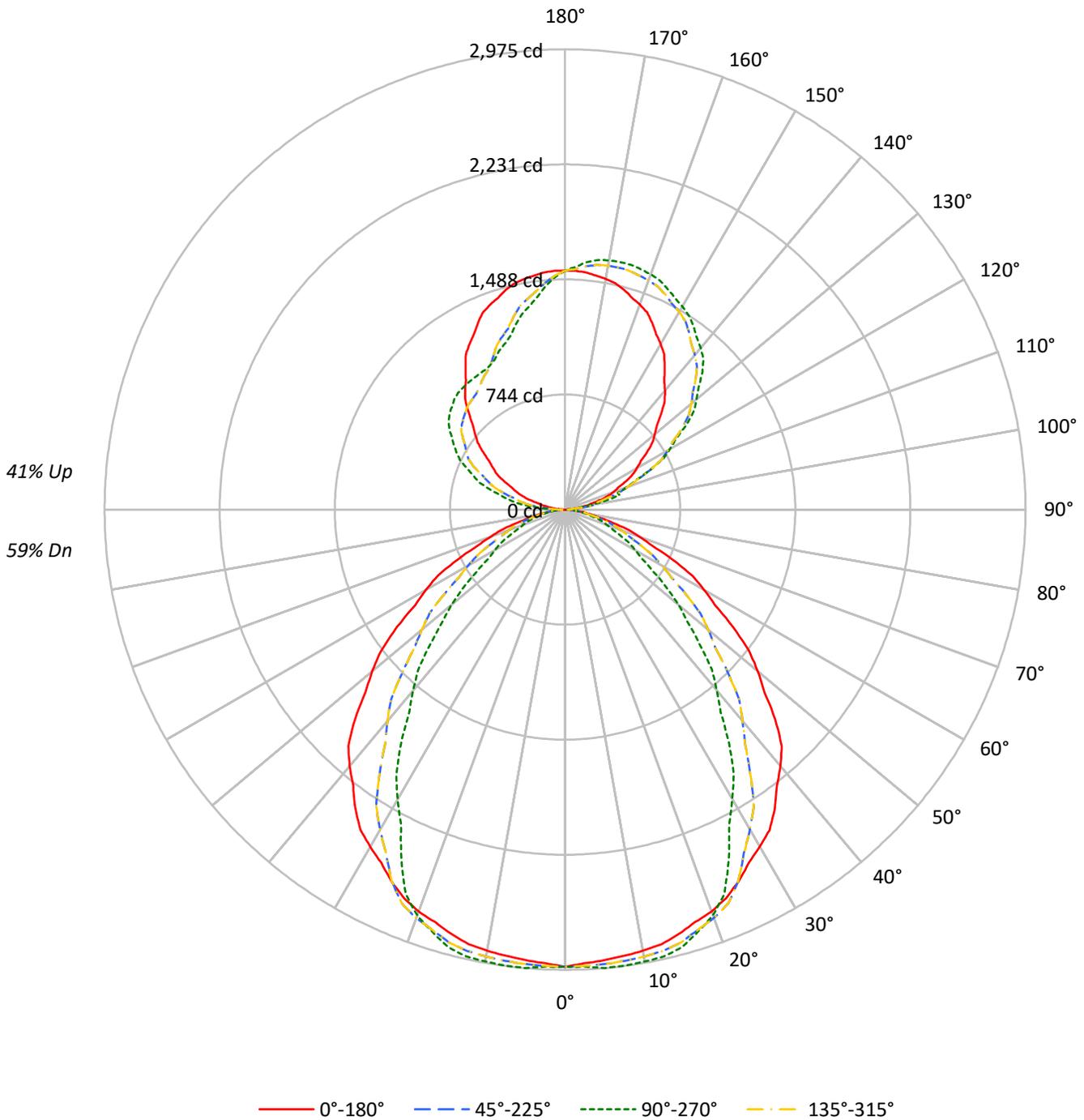
Lumens per Lamp: N/A
Luminaire Lumens: 11069.7 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59				
1	101	96	93	89	94	90	87	84	79	76	74	68	66	65	58	57	56	51				
2	92	85	79	74	86	80	75	70	70	66	62	61	58	55	52	50	48	44				
3	84	75	68	63	79	71	64	59	62	57	53	54	51	47	47	44	42	38				
4	78	67	59	54	72	63	56	51	56	50	46	49	45	41	42	39	37	33				
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	38	35	32	29				
6	66	54	46	41	62	51	44	39	45	40	35	40	35	32	35	31	29	26				
7	61	49	41	36	57	47	39	34	41	36	31	37	32	29	32	28	26	23				
8	57	45	37	32	53	43	36	31	38	32	28	34	29	26	30	26	23	21				
9	53	41	34	29	50	39	32	28	35	29	25	31	27	23	27	24	21	19				
10	50	38	31	26	47	36	29	25	32	27	23	29	24	21	26	22	19	17				

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	2.5
10°-20°	815.4	7.4
20°-30°	1199.9	10.8
30°-40°	1311.9	11.9
40°-50°	1176.9	10.6
50°-60°	877.9	7.9
60°-70°	554.9	5.0
70°-80°	274.9	2.5
80°-90°	70.7	0.6
90°-100°	122.8	1.1
100°-110°	358.2	3.2
110°-120°	584.5	5.3
120°-130°	741.7	6.7
130°-140°	793.6	7.2
140°-150°	741.1	6.7
150°-160°	609.8	5.5
160°-170°	409.0	3.7
170°-180°	145.2	1.3
0°-30°	2296.7	20.7
0°-40°	3608.6	32.6
0°-60°	5663.4	51.2
0°-90°	6563.9	59.3
90°-120°	1065.5	9.6
90°-150°	3341.8	30.2
90°-180°	4506.0	40.7
0°-180°	11069.7	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°	5	34	5	67	5	6
95°	48	36	48	210	48	58
105°	228	365	228	502	228	242
115°	436	605	436	745	436	430
125°	645	959	645	913	645	577
135°	878	1255	878	1012	878	678
145°	1121	1446	1121	1034	1121	701
155°	1331	1571	1331	1072	1331	612
165°	1472	1638	1472	1235	1472	414
175°	1538	1604	1538	1448	1538	146
180°	1543	1543	1543	1543	1543	



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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°	14.4	18.7	23.3	21.5	17.4	14.7	13.7	13.3	13.6	13.6	13.6
90°	4.7	10.9	18.7	24.9	29.6	31.2	31.2	32.7	34.3	34.3	34.3
92.5°	17.1	27.1	27.4	27.4	33.4	36.2	38.7	39.0	40.5	40.5	40.5
95°	48.3	53.0	79.5	77.9	53.0	42.1	35.9	35.9	35.9	35.9	35.9
97.5°	92.3	99.1	103.5	138.7	146.5	141.5	115.3	97.0	86.7	82.0	86.7
100°	130.9	134.1	143.4	145.0	183.9	221.3	202.6	179.3	171.5	166.8	171.5
102.5°	169.6	171.5	185.8	192.4	201.4	222.6	287.4	280.3	275.0	274.0	275.0
105°	227.6	229.1	255.6	268.1	274.3	274.3	272.8	304.0	353.8	364.8	353.8
107.5°	289.6	296.8	328.0	361.3	368.5	370.4	362.3	357.6	355.7	357.0	355.7
110°	332.0	342.9	380.3	422.4	433.3	436.5	433.3	428.7	425.5	425.5	425.5



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CATALOG NUMBER: SQ2W-PW1-K-100U-125D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	373.2	389.1	431.5	479.8	498.2	507.5	500.7	497.2	494.1	496.6	494.1
115°	436.5	459.8	516.0	565.8	603.2	607.9	606.4	606.4	604.8	604.8	604.8
117.5°	495.1	532.5	595.5	653.4	696.8	709.2	715.5	713.6	711.7	714.9	711.7
120°	536.2	579.9	651.6	717.0	759.1	777.8	784.1	780.9	784.1	780.9	784.1
122.5°	579.9	633.5	703.9	771.9	821.5	842.7	850.2	850.8	851.4	849.5	851.4
125°	645.3	710.8	793.4	863.6	915.0	939.9	946.2	947.7	950.9	958.6	950.9
127.5°	711.4	785.6	876.3	944.0	996.7	1026.9	1036.6	1040.0	1046.6	1050.0	1046.6
130°	757.6	841.7	933.7	997.6	1049.1	1081.8	1098.9	1103.6	1111.4	1109.8	1111.4
132.5°	806.2	894.1	987.3	1053.7	1101.4	1136.7	1151.3	1164.7	1167.5	1169.7	1167.5
135°	877.6	972.7	1066.2	1131.7	1176.9	1211.2	1229.9	1242.3	1250.1	1254.8	1250.1
137.5°	952.7	1053.1	1142.9	1201.2	1246.7	1276.3	1297.5	1310.6	1318.7	1322.5	1318.7
140°	1003.9	1100.5	1187.8	1248.6	1289.1	1318.7	1337.4	1353.0	1362.4	1362.4	1362.4
142.5°	1052.5	1147.9	1232.7	1293.5	1329.0	1356.1	1376.1	1387.9	1398.5	1398.5	1398.5
145°	1120.8	1215.8	1293.8	1354.6	1384.2	1409.1	1431.0	1440.3	1446.5	1446.5	1446.5
147.5°	1192.2	1276.3	1347.4	1405.7	1430.6	1459.9	1477.1	1484.6	1492.4	1488.9	1492.4
150°	1234.6	1312.5	1381.1	1435.6	1460.6	1488.6	1505.8	1512.0	1519.8	1515.1	1519.8
152.5°	1275.7	1349.9	1412.3	1463.1	1484.3	1512.3	1532.0	1538.2	1543.5	1540.1	1543.5
155°	1331.2	1396.7	1454.3	1501.1	1519.8	1546.3	1565.0	1572.8	1579.0	1571.2	1579.0
157.5°	1380.8	1437.2	1487.4	1530.4	1550.4	1573.1	1590.6	1600.2	1606.5	1603.0	1606.5
160°	1410.7	1462.1	1507.3	1547.9	1566.6	1586.8	1605.5	1616.5	1622.7	1618.0	1622.7
162.5°	1435.6	1482.1	1524.8	1561.6	1577.8	1595.6	1618.0	1627.7	1633.9	1628.0	1633.9
165°	1471.5	1508.9	1546.3	1577.5	1591.5	1605.5	1628.9	1639.8	1644.5	1638.3	1644.5
167.5°	1498.6	1527.3	1557.5	1584.3	1594.6	1608.3	1631.7	1640.8	1646.7	1638.9	1646.7
170°	1513.6	1538.5	1565.0	1586.8	1594.6	1607.1	1630.5	1638.3	1643.0	1635.2	1643.0
172.5°	1526.0	1544.7	1566.3	1585.6	1589.6	1599.6	1621.8	1629.5	1633.0	1626.4	1633.0
175°	1538.5	1549.4	1565.0	1577.5	1575.9	1582.2	1600.9	1607.1	1613.3	1604.0	1613.3
177.5°	1544.4	1549.4	1554.4	1561.9	1556.9	1556.9	1570.6	1574.4	1575.6	1570.6	1575.6
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



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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°	13.3	13.7	14.7	17.4	21.5	23.3	18.7	14.4	18.7	22.9	22.1
90°	32.7	31.2	31.2	29.6	24.9	18.7	10.9	4.7	10.9	17.1	28.1
92.5°	39.0	38.7	36.2	33.4	27.4	27.4	27.1	17.1	29.6	42.1	60.5
95°	35.9	35.9	42.1	53.0	77.9	79.5	53.0	48.3	68.6	96.6	121.6
97.5°	97.0	115.3	141.5	146.5	138.7	103.5	99.1	92.3	125.6	153.4	193.6
100°	179.3	202.6	221.3	183.9	145.0	143.4	134.1	130.9	166.8	193.3	232.3
102.5°	280.3	287.4	222.6	201.4	192.4	185.8	171.5	169.6	205.4	241.9	274.7
105°	304.0	272.8	274.3	274.3	268.1	255.6	229.1	227.6	268.1	310.2	350.7
107.5°	357.6	362.3	370.4	368.5	361.3	328.0	296.8	289.6	326.1	376.6	421.2
110°	428.7	433.3	436.5	433.3	422.4	380.3	342.9	332.0	364.8	417.8	466.1



TEST NUMBER: P1428439

CATALOG NUMBER: SQ2W-PW1-K-100U-125D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	497.2	500.7	507.5	498.2	479.8	431.5	389.1	373.2	405.9	460.2	509.7
115°	606.4	606.4	607.9	603.2	565.8	516.0	459.8	436.5	464.5	514.4	569.0
117.5°	713.6	715.5	709.2	696.8	653.4	595.5	532.5	495.1	517.2	569.9	626.0
120°	780.9	784.1	777.8	759.1	717.0	651.6	579.9	536.2	553.4	604.8	660.9
122.5°	850.8	850.2	842.7	821.5	771.9	703.9	633.5	579.9	587.0	634.7	689.6
125°	947.7	946.2	939.9	915.0	863.6	793.4	710.8	645.3	636.0	676.5	732.6
127.5°	1040.0	1036.6	1026.9	996.7	944.0	876.3	785.6	711.4	690.5	716.1	767.5
130°	1103.6	1098.9	1081.8	1049.1	997.6	933.7	841.7	757.6	727.9	743.5	788.7
132.5°	1164.7	1151.3	1136.7	1101.4	1053.7	987.3	894.1	806.2	765.4	772.2	807.4
135°	1242.3	1229.9	1211.2	1176.9	1131.7	1066.2	972.7	877.6	821.5	815.2	835.5
137.5°	1310.6	1297.5	1276.3	1246.7	1201.2	1142.9	1053.1	952.7	882.0	861.1	868.9
140°	1353.0	1337.4	1318.7	1289.1	1248.6	1187.8	1100.5	1003.9	924.4	894.7	890.1
142.5°	1387.9	1376.1	1356.1	1329.0	1293.5	1232.7	1147.9	1052.5	968.0	929.7	918.7
145°	1440.3	1431.0	1409.1	1384.2	1354.6	1293.8	1215.8	1120.8	1036.6	986.7	963.3
147.5°	1484.6	1477.1	1459.9	1430.6	1405.7	1347.4	1276.3	1192.2	1105.8	1044.1	1013.8
150°	1512.0	1505.8	1488.6	1460.6	1435.6	1381.1	1312.5	1234.6	1151.9	1086.5	1047.5
152.5°	1538.2	1532.0	1512.3	1484.3	1463.1	1412.3	1349.9	1275.7	1191.8	1126.4	1086.2
155°	1572.8	1565.0	1546.3	1519.8	1501.1	1454.3	1396.7	1331.2	1259.5	1190.9	1145.7
157.5°	1600.2	1590.6	1573.1	1550.4	1530.4	1487.4	1437.2	1380.8	1318.1	1252.6	1206.5
160°	1616.5	1605.5	1586.8	1566.6	1547.9	1507.3	1462.1	1410.7	1353.0	1293.8	1243.9
162.5°	1627.7	1618.0	1595.6	1577.8	1561.6	1524.8	1482.1	1435.6	1384.2	1332.4	1286.3
165°	1639.8	1628.9	1605.5	1591.5	1577.5	1546.3	1508.9	1471.5	1427.8	1385.8	1348.3
167.5°	1640.8	1631.7	1608.3	1594.6	1584.3	1557.5	1527.3	1498.6	1464.6	1431.6	1400.4
170°	1638.3	1630.5	1607.1	1594.6	1586.8	1565.0	1538.5	1513.6	1487.1	1459.0	1434.1
172.5°	1629.5	1621.8	1599.6	1589.6	1585.6	1566.3	1544.7	1526.0	1503.3	1482.7	1462.8
175°	1607.1	1600.9	1582.2	1575.9	1577.5	1565.0	1549.4	1538.5	1524.5	1512.0	1501.1
177.5°	1574.4	1570.6	1556.9	1556.9	1561.9	1554.4	1549.4	1544.4	1538.2	1534.5	1530.7
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428439

CATALOG NUMBER: SQ2W-PW1-K-100U-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°	18.7	17.9	19.0	19.5	20.8	20.2	20.8	19.5	19.0	17.9	18.7
90°	35.9	46.8	57.7	63.9	70.1	67.0	70.1	63.9	57.7	46.8	35.9
92.5°	72.0	90.4	103.8	115.0	120.0	119.4	120.0	115.0	103.8	90.4	72.0
95°	145.0	166.8	188.6	204.2	213.6	210.4	213.6	204.2	188.6	166.8	145.0
97.5°	223.5	252.8	277.2	291.8	301.2	307.4	301.2	291.8	277.2	252.8	223.5
100°	275.9	304.0	332.0	349.2	364.8	371.0	364.8	349.2	332.0	304.0	275.9
102.5°	318.3	355.1	385.6	404.0	417.1	423.4	417.1	404.0	385.6	355.1	318.3
105°	388.1	427.1	459.8	483.2	497.2	501.9	497.2	483.2	459.8	427.1	388.1
107.5°	458.0	498.2	528.4	554.3	571.4	581.4	571.4	554.3	528.4	498.2	458.0
110°	512.8	545.6	578.3	601.7	618.8	625.1	618.8	601.7	578.3	545.6	512.8



TEST NUMBER: P1428439

CATALOG NUMBER: SQ2W-PW1-K-100U-125D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	559.0	595.5	628.2	651.6	671.2	679.9	671.2	651.6	628.2	595.5	559.0
115°	623.5	671.8	701.4	723.3	737.3	745.1	737.3	723.3	701.4	671.8	623.5
117.5°	677.1	727.6	760.1	776.9	783.4	789.1	783.4	776.9	760.1	727.6	677.1
120°	710.8	757.6	795.0	816.8	824.6	827.7	824.6	816.8	795.0	757.6	710.8
122.5°	742.0	786.2	822.4	849.2	862.0	865.1	862.0	849.2	822.4	786.2	742.0
125°	785.6	827.7	865.1	891.6	905.6	913.4	905.6	891.6	865.1	827.7	785.6
127.5°	823.7	869.2	903.5	927.5	941.2	947.4	941.2	927.5	903.5	869.2	823.7
130°	844.9	891.6	925.9	952.4	964.9	971.1	964.9	952.4	925.9	891.6	844.9
132.5°	861.1	910.3	945.9	969.9	983.6	989.8	983.6	969.9	945.9	910.3	861.1
135°	880.7	932.1	969.6	992.9	1005.4	1011.6	1005.4	992.9	969.6	932.1	880.7
137.5°	897.9	944.6	983.6	1008.2	1019.4	1023.5	1019.4	1008.2	983.6	944.6	897.9
140°	910.3	950.9	989.8	1013.2	1025.7	1027.2	1025.7	1013.2	989.8	950.9	910.3
142.5°	926.5	958.3	992.3	1015.7	1028.2	1031.0	1028.2	1015.7	992.3	958.3	926.5
145°	955.5	974.2	997.6	1019.4	1030.4	1033.5	1030.4	1019.4	997.6	974.2	955.5
147.5°	992.0	997.9	1010.1	1024.4	1035.0	1037.2	1035.0	1024.4	1010.1	997.9	992.0
150°	1019.4	1017.9	1022.6	1031.9	1041.3	1039.7	1041.3	1031.9	1022.6	1017.9	1019.4
152.5°	1050.6	1041.6	1041.3	1045.6	1050.0	1049.7	1050.0	1045.6	1041.3	1041.6	1050.6
155°	1103.6	1086.5	1077.1	1074.0	1074.0	1072.4	1074.0	1074.0	1077.1	1086.5	1103.6
157.5°	1161.9	1137.9	1123.9	1116.4	1114.2	1110.8	1114.2	1116.4	1123.9	1137.9	1161.9
160°	1201.8	1175.3	1161.3	1148.8	1144.1	1139.5	1144.1	1148.8	1161.3	1175.3	1201.8
162.5°	1239.2	1214.0	1198.7	1187.5	1182.8	1175.6	1182.8	1187.5	1198.7	1214.0	1239.2
165°	1300.0	1273.5	1256.4	1247.0	1240.8	1234.6	1240.8	1247.0	1256.4	1273.5	1300.0
167.5°	1360.8	1331.8	1320.6	1310.0	1304.1	1292.8	1304.1	1310.0	1320.6	1331.8	1360.8
170°	1398.2	1371.7	1365.5	1356.1	1345.2	1332.8	1345.2	1356.1	1365.5	1371.7	1398.2
172.5°	1430.6	1412.9	1406.6	1397.3	1393.9	1383.9	1393.9	1397.3	1406.6	1412.9	1430.6
175°	1477.7	1463.7	1463.7	1462.1	1457.5	1448.1	1457.5	1462.1	1463.7	1463.7	1477.7
177.5°	1517.0	1509.5	1514.5	1514.5	1513.3	1504.5	1513.3	1514.5	1514.5	1509.5	1517.0
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428439

CATALOG NUMBER: SQ2W-PW1-K-100U-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°	22.1	22.9	18.7	14.4
90°	28.1	17.1	10.9	4.7
92.5°	60.5	42.1	29.6	17.1
95°	121.6	96.6	68.6	48.3
97.5°	193.6	153.4	125.6	92.3
100°	232.3	193.3	166.8	130.9
102.5°	274.7	241.9	205.4	169.6
105°	350.7	310.2	268.1	227.6
107.5°	421.2	376.6	326.1	289.6
110°	466.1	417.8	364.8	332.0



TEST NUMBER: P1428439

CATALOG NUMBER: SQ2W-PW1-K-100U-125D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	509.7	460.2	405.9	373.2
115°	569.0	514.4	464.5	436.5
117.5°	626.0	569.9	517.2	495.1
120°	660.9	604.8	553.4	536.2
122.5°	689.6	634.7	587.0	579.9
125°	732.6	676.5	636.0	645.3
127.5°	767.5	716.1	690.5	711.4
130°	788.7	743.5	727.9	757.6
132.5°	807.4	772.2	765.4	806.2
135°	835.5	815.2	821.5	877.6
137.5°	868.9	861.1	882.0	952.7
140°	890.1	894.7	924.4	1003.9
142.5°	918.7	929.7	968.0	1052.5
145°	963.3	986.7	1036.6	1120.8
147.5°	1013.8	1044.1	1105.8	1192.2
150°	1047.5	1086.5	1151.9	1234.6
152.5°	1086.2	1126.4	1191.8	1275.7
155°	1145.7	1190.9	1259.5	1331.2
157.5°	1206.5	1252.6	1318.1	1380.8
160°	1243.9	1293.8	1353.0	1410.7
162.5°	1286.3	1332.4	1384.2	1435.6
165°	1348.3	1385.8	1427.8	1471.5
167.5°	1400.4	1431.6	1464.6	1498.6
170°	1434.1	1459.0	1487.1	1513.6
172.5°	1462.8	1482.7	1503.3	1526.0
175°	1501.1	1512.0	1524.5	1538.5
177.5°	1530.7	1534.5	1538.2	1544.4
180°	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428439
 CATALOG NUMBER: SQ2W-PW1-K-100U-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	21.17	22.08	22.05	22.97	24.11	17.42	18.32	18.30	19.22	20.36
	3H	22.48	23.29	23.37	24.19	25.35	18.69	19.50	19.59	20.41	21.57
	4H	22.89	23.65	23.80	24.56	25.73	19.20	19.96	20.11	20.88	22.05
	6H	23.07	23.77	23.99	24.69	25.87	19.51	20.21	20.43	21.13	22.32
	8H	23.11	23.78	24.04	24.72	25.90	19.63	20.29	20.56	21.23	22.41
	12H	23.12	23.75	24.05	24.68	25.89	19.66	20.29	20.59	21.22	22.43
4H	2H	21.31	22.07	22.22	22.98	24.15	18.24	19.00	19.15	19.91	21.08
	3H	22.85	23.48	23.78	24.43	25.61	19.69	20.32	20.61	21.26	22.45
	4H	23.40	23.98	24.34	24.91	26.13	20.27	20.84	21.20	21.78	22.99
	6H	23.71	24.21	24.66	25.17	26.38	20.65	21.15	21.60	22.11	23.32
	8H	23.81	24.27	24.76	25.22	26.45	20.80	21.27	21.75	22.22	23.45
	12H	23.83	24.25	24.80	25.22	26.45	20.85	21.26	21.82	22.24	23.47
8H	4H	23.44	23.90	24.39	24.86	26.08	20.61	21.07	21.56	22.03	23.26
	6H	23.87	24.25	24.84	25.24	26.47	21.11	21.49	22.08	22.49	23.71
	8H	24.04	24.37	25.02	25.36	26.60	21.33	21.66	22.31	22.65	23.89
	12H	24.12	24.41	25.10	25.39	26.68	21.41	21.71	22.40	22.69	23.98
12H	4H	23.40	23.82	24.37	24.79	26.02	20.63	21.05	21.60	22.02	23.25
	6H	23.86	24.20	24.84	25.18	26.43	21.18	21.52	22.17	22.51	23.75
	8H	24.05	24.35	25.04	25.33	26.62	21.43	21.72	22.42	22.70	23.99