

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: P1427971

Luminaire Tested: SQ2W-PH1-K-150U-075D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427971
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-075D-L840-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

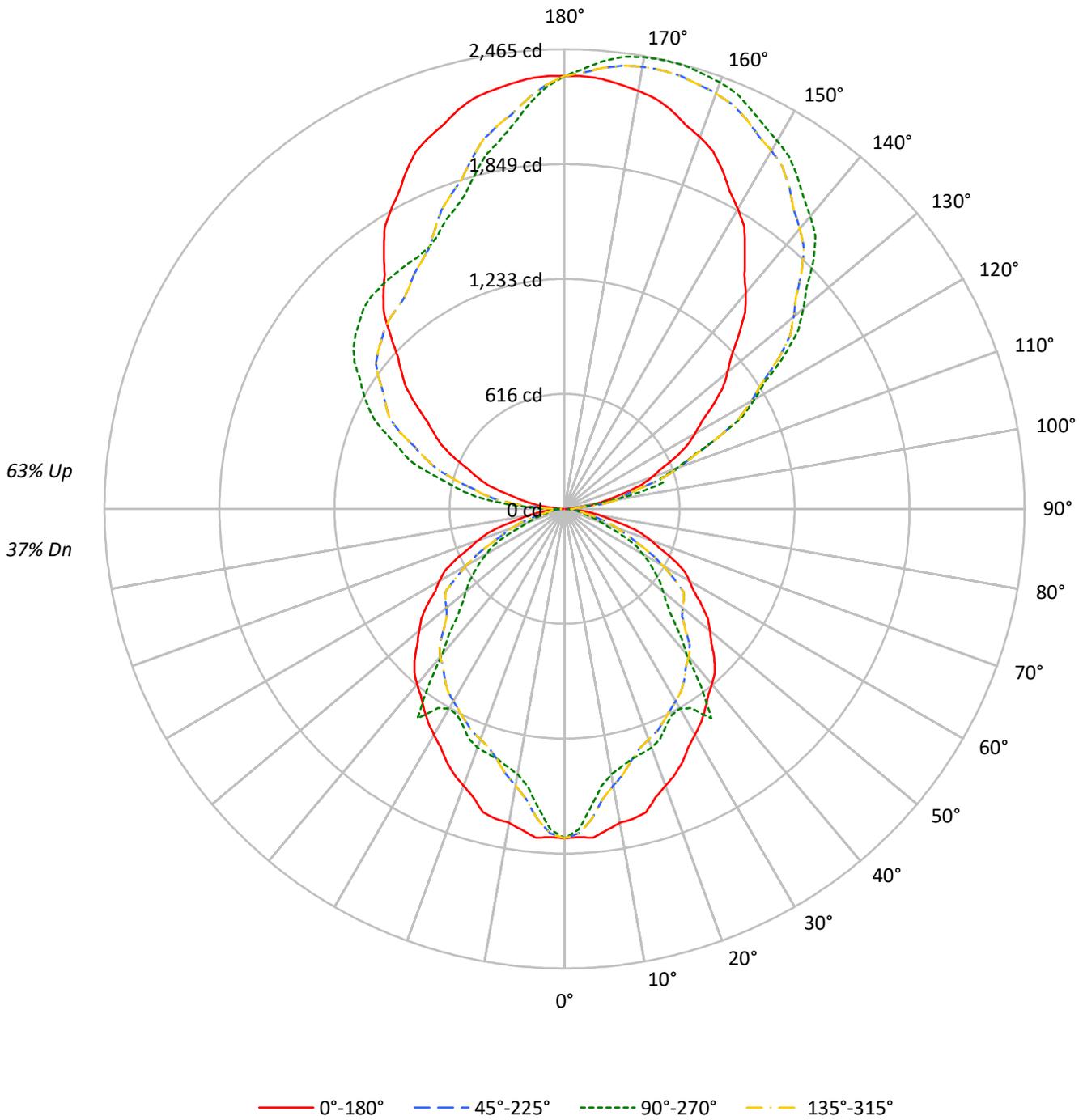
Lumens per Lamp: N/A
Luminaire Lumens: 10692.6 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 81.8
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	50	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28528	28528	28528	28528
5°	28692	26076	28692	26076
10°	28032	23703	28032	23703
15°	28157	23239	28157	23239
20°	27152	23426	27152	23426
25°	26656	22881	26656	22881
30°	26076	23069	26076	23069
35°	25879	27038	25879	27038
40°	25901	21437	25901	21437
45°	25911	18463	25911	18463
50°	25548	17314	25548	17314
55°	25224	16611	25224	16611
60°	24971	15580	24971	15580
65°	24534	13551	24534	13551
70°	23174	9682	23174	9682
75°	20661	7342	20661	7342
80°	16885	6880	16885	6880
85°	10596	4668	10596	4668

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.5
10°-20°	409.0	3.8
20°-30°	599.6	5.6
30°-40°	726.0	6.8
40°-50°	713.9	6.7
50°-60°	621.0	5.8
60°-70°	431.9	4.0
70°-80°	204.8	1.9
80°-90°	54.8	0.5
90°-100°	184.7	1.7
100°-110°	538.6	5.0
110°-120°	879.0	8.2
120°-130°	1115.4	10.4
130°-140°	1193.5	11.2
140°-150°	1114.5	10.4
150°-160°	917.1	8.6
160°-170°	615.0	5.8
170°-180°	218.4	2.0
0°-30°	1164.0	10.9
0°-40°	1890.0	17.7
0°-60°	3224.9	30.2
0°-90°	3916.4	36.6
90°-120°	1602.3	15.0
90°-150°	5025.7	47.0
90°-180°	6776.0	63.4
0°-180°	10692.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1767	1767	1767	1767	1767	
5°	1770	1609	1770	1609	1770	166
15°	1684	1390	1684	1390	1684	470
25°	1496	1284	1496	1284	1496	688
35°	1313	1372	1313	1372	1313	822
45°	1135	809	1135	809	1135	872
55°	896	590	896	590	896	800
65°	642	355	642	355	642	631
75°	331	118	331	118	331	351
85°	57	25	57	25	57	77
90°	7	52	7	101	7	7
95°	73	54	73	316	73	88
105°	342	548	342	755	342	364
115°	656	910	656	1120	656	647
125°	970	1442	970	1374	970	868
135°	1320	1887	1320	1521	1320	1020
145°	1686	2175	1686	1554	1686	1055
155°	2002	2363	2002	1613	2002	920
165°	2213	2464	2213	1857	2213	623
175°	2314	2412	2314	2178	2314	220
180°	2321	2321	2321	2321	2321	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1762.9	1771.3	1779.6	1767.8	1749.3	1736.4	1729.3	1723.6	1722.4	1721.2	1722.4
5°	1770.3	1769.5	1768.8	1733.9	1687.5	1652.8	1629.6	1611.9	1610.4	1608.9	1610.4
7.5°	1738.0	1714.8	1691.7	1644.8	1589.9	1549.7	1524.2	1504.7	1503.5	1502.3	1503.5
10°	1709.8	1674.6	1639.5	1586.5	1527.4	1486.4	1463.2	1445.8	1445.8	1445.8	1445.8
12.5°	1703.0	1647.6	1592.2	1534.0	1475.0	1436.9	1419.7	1407.7	1411.3	1414.9	1411.3
15°	1684.5	1600.9	1517.2	1458.1	1407.3	1379.7	1375.2	1373.9	1382.1	1390.3	1382.1
17.5°	1623.4	1533.2	1443.1	1391.2	1352.1	1337.3	1346.9	1356.4	1366.0	1375.5	1366.0
20°	1580.3	1491.4	1402.5	1354.5	1320.1	1311.9	1329.8	1345.5	1354.5	1363.4	1354.5
22.5°	1544.0	1453.9	1363.8	1321.3	1294.7	1291.3	1311.0	1327.0	1331.8	1336.5	1331.8
25°	1496.3	1394.6	1293.0	1262.0	1254.5	1259.4	1276.6	1288.9	1286.7	1284.4	1286.7
27.5°	1439.1	1333.0	1226.9	1207.0	1215.8	1225.4	1235.9	1244.1	1245.4	1246.8	1245.4
30°	1398.7	1292.6	1186.5	1170.7	1184.9	1197.2	1207.7	1217.9	1227.6	1237.4	1227.6
32.5°	1359.7	1250.1	1140.4	1129.0	1150.3	1173.4	1198.2	1222.4	1244.7	1266.9	1244.7
35°	1313.0	1198.7	1084.4	1075.4	1101.5	1135.2	1176.3	1225.4	1298.6	1371.8	1298.6
37.5°	1263.9	1141.4	1018.8	1014.8	1050.2	1085.6	1121.0	1153.4	1176.7	1200.0	1176.7
40°	1228.9	1100.4	971.9	971.7	1014.3	1058.4	1104.0	1124.7	1070.9	1017.1	1070.9
42.5°	1191.3	1062.8	934.3	930.5	968.3	1016.9	1076.2	1098.0	1007.1	916.2	1007.1
45°	1134.8	1001.1	867.3	862.4	900.6	927.5	943.1	938.7	873.7	808.6	873.7
47.5°	1068.2	940.8	813.3	812.2	853.3	856.3	821.2	788.5	763.1	737.7	763.1
50°	1017.1	896.8	776.5	781.8	828.8	824.3	768.3	722.2	705.7	689.3	705.7
52.5°	967.4	853.0	738.7	752.6	809.2	800.3	725.7	667.0	656.0	644.9	656.0
55°	896.1	786.2	676.4	707.8	786.2	774.3	671.9	594.6	592.3	590.1	592.3
57.5°	820.4	716.6	612.7	634.5	698.1	685.6	596.8	531.2	535.1	539.0	535.1
60°	773.3	672.5	571.6	574.4	611.8	599.8	538.5	491.5	487.0	482.5	487.0
62.5°	723.6	627.5	531.4	517.5	530.9	516.9	475.3	443.0	438.6	434.1	438.6
65°	642.2	554.8	467.4	441.0	435.1	414.9	380.5	354.7	354.7	354.7	354.7
67.5°	552.8	476.6	400.3	370.9	357.0	336.9	310.8	286.7	268.8	250.8	268.8
70°	490.9	423.7	356.4	325.6	306.9	283.0	253.9	229.0	217.1	205.1	217.1
72.5°	425.0	367.3	309.6	278.1	255.2	231.9	208.1	186.9	173.1	159.4	173.1
75°	331.2	284.9	238.5	207.9	182.5	159.0	137.3	120.7	119.2	117.7	119.2
77.5°	239.4	205.6	171.9	147.0	125.2	108.9	98.0	89.8	90.0	90.1	90.0
80°	181.6	156.2	130.8	107.6	85.2	73.6	72.9	72.5	73.2	74.0	73.2
82.5°	127.8	108.9	90.1	75.3	61.9	55.7	56.7	57.5	57.7	57.8	57.7
85°	57.2	48.2	39.2	35.9	34.4	32.1	29.1	26.7	26.0	25.2	26.0
87.5°	13.5	14.8	16.5	16.9	16.5	16.1	16.1	16.6	17.0	17.0	17.0
90°	7.0	16.4	28.1	37.5	44.5	46.9	46.9	49.2	51.6	51.6	51.6
92.5°	25.8	40.8	41.3	41.3	50.2	54.4	58.1	58.6	60.9	60.9	60.9
95°	72.7	79.7	119.6	117.2	79.7	63.3	53.9	53.9	53.9	53.9	53.9
97.5°	138.8	149.1	155.7	208.6	220.4	212.9	173.5	145.8	130.3	123.3	130.3
100°	196.9	201.6	215.7	218.0	276.6	332.9	304.7	269.6	257.9	250.8	257.9
102.5°	255.0	257.9	279.4	289.3	302.9	334.7	432.3	421.5	413.5	412.1	413.5
105°	342.3	344.6	384.4	403.2	412.6	412.6	410.2	457.1	532.1	548.5	532.1
107.5°	435.5	446.3	493.2	543.4	554.2	557.0	544.8	537.8	534.9	536.8	534.9
110°	499.3	515.7	572.0	635.3	651.7	656.4	651.7	644.7	640.0	640.0	640.0



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1723.6	1729.3	1736.4	1749.3	1767.8	1779.6	1771.3	1762.9	1771.3	1779.6	1767.8
5°	1611.9	1629.6	1652.8	1687.5	1733.9	1768.8	1769.5	1770.3	1769.5	1768.8	1733.9
7.5°	1504.7	1524.2	1549.7	1589.9	1644.8	1691.7	1714.8	1738.0	1714.8	1691.7	1644.8
10°	1445.8	1463.2	1486.4	1527.4	1586.5	1639.5	1674.6	1709.8	1674.6	1639.5	1586.5
12.5°	1407.7	1419.7	1436.9	1475.0	1534.0	1592.2	1647.6	1703.0	1647.6	1592.2	1534.0
15°	1373.9	1375.2	1379.7	1407.3	1458.1	1517.2	1600.9	1684.5	1600.9	1517.2	1458.1
17.5°	1356.4	1346.9	1337.3	1352.1	1391.2	1443.1	1533.2	1623.4	1533.2	1443.1	1391.2
20°	1345.5	1329.8	1311.9	1320.1	1354.5	1402.5	1491.4	1580.3	1491.4	1402.5	1354.5
22.5°	1327.0	1311.0	1291.3	1294.7	1321.3	1363.8	1453.9	1544.0	1453.9	1363.8	1321.3
25°	1288.9	1276.6	1259.4	1254.5	1262.0	1293.0	1394.6	1496.3	1394.6	1293.0	1262.0
27.5°	1244.1	1235.9	1225.4	1215.8	1207.0	1226.9	1333.0	1439.1	1333.0	1226.9	1207.0
30°	1217.9	1207.7	1197.2	1184.9	1170.7	1186.5	1292.6	1398.7	1292.6	1186.5	1170.7
32.5°	1222.4	1198.2	1173.4	1150.3	1129.0	1140.4	1250.1	1359.7	1250.1	1140.4	1129.0
35°	1225.4	1176.3	1135.2	1101.5	1075.4	1084.4	1198.7	1313.0	1198.7	1084.4	1075.4
37.5°	1153.4	1121.0	1085.6	1050.2	1014.8	1018.8	1141.4	1263.9	1141.4	1018.8	1014.8
40°	1124.7	1104.0	1058.4	1014.3	971.7	971.9	1100.4	1228.9	1100.4	971.9	971.7
42.5°	1098.0	1076.2	1016.9	968.3	930.5	934.3	1062.8	1191.3	1062.8	934.3	930.5
45°	938.7	943.1	927.5	900.6	862.4	867.3	1001.1	1134.8	1001.1	867.3	862.4
47.5°	788.5	821.2	856.3	853.3	812.2	813.3	940.8	1068.2	940.8	813.3	812.2
50°	722.2	768.3	824.3	828.8	781.8	776.5	896.8	1017.1	896.8	776.5	781.8
52.5°	667.0	725.7	800.3	809.2	752.6	738.7	853.0	967.4	853.0	738.7	752.6
55°	594.6	671.9	774.3	786.2	707.8	676.4	786.2	896.1	786.2	676.4	707.8
57.5°	531.2	596.8	685.6	698.1	634.5	612.7	716.6	820.4	716.6	612.7	634.5
60°	491.5	538.5	599.8	611.8	574.4	571.6	672.5	773.3	672.5	571.6	574.4
62.5°	443.0	475.3	516.9	530.9	517.5	531.4	627.5	723.6	627.5	531.4	517.5
65°	354.7	380.5	414.9	435.1	441.0	467.4	554.8	642.2	554.8	467.4	441.0
67.5°	286.7	310.8	336.9	357.0	370.9	400.3	476.6	552.8	476.6	400.3	370.9
70°	229.0	253.9	283.0	306.9	325.6	356.4	423.7	490.9	423.7	356.4	325.6
72.5°	186.9	208.1	231.9	255.2	278.1	309.6	367.3	425.0	367.3	309.6	278.1
75°	120.7	137.3	159.0	182.5	207.9	238.5	284.9	331.2	284.9	238.5	207.9
77.5°	89.8	98.0	108.9	125.2	147.0	171.9	205.6	239.4	205.6	171.9	147.0
80°	72.5	72.9	73.6	85.2	107.6	130.8	156.2	181.6	156.2	130.8	107.6
82.5°	57.5	56.7	55.7	61.9	75.3	90.1	108.9	127.8	108.9	90.1	75.3
85°	26.7	29.1	32.1	34.4	35.9	39.2	48.2	57.2	48.2	39.2	35.9
87.5°	16.6	16.1	16.1	16.5	16.9	16.5	14.8	13.5	14.8	16.1	17.9
90°	49.2	46.9	46.9	44.5	37.5	28.1	16.4	7.0	16.4	25.8	42.2
92.5°	58.6	58.1	54.4	50.2	41.3	41.3	40.8	25.8	44.5	63.3	91.0
95°	53.9	53.9	63.3	79.7	117.2	119.6	79.7	72.7	103.1	145.3	182.8
97.5°	145.8	173.5	212.9	220.4	208.6	155.7	149.1	138.8	188.9	230.7	291.1
100°	269.6	304.7	332.9	276.6	218.0	215.7	201.6	196.9	250.8	290.7	349.3
102.5°	421.5	432.3	334.7	302.9	289.3	279.4	257.9	255.0	309.0	363.8	413.0
105°	457.1	410.2	412.6	412.6	403.2	384.4	344.6	342.3	403.2	466.5	527.4
107.5°	537.8	544.8	557.0	554.2	543.4	493.2	446.3	435.5	490.4	566.4	633.4
110°	644.7	651.7	656.4	651.7	635.3	572.0	515.7	499.3	548.5	628.2	700.9



TEST NUMBER: P1427971

CATALOG NUMBER: SQ2W-PH1-K-150U-075D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1749.3	1736.4	1729.3	1723.6	1722.4	1721.2	1722.4	1723.6	1729.3	1736.4	1749.3
5°	1687.5	1652.8	1629.6	1611.9	1610.4	1608.9	1610.4	1611.9	1629.6	1652.8	1687.5
7.5°	1589.9	1549.7	1524.2	1504.7	1503.5	1502.3	1503.5	1504.7	1524.2	1549.7	1589.9
10°	1527.4	1486.4	1463.2	1445.8	1445.8	1445.8	1445.8	1445.8	1463.2	1486.4	1527.4
12.5°	1475.0	1436.9	1419.7	1407.7	1411.3	1414.9	1411.3	1407.7	1419.7	1436.9	1475.0
15°	1407.3	1379.7	1375.2	1373.9	1382.1	1390.3	1382.1	1373.9	1375.2	1379.7	1407.3
17.5°	1352.1	1337.3	1346.9	1356.4	1366.0	1375.5	1366.0	1356.4	1346.9	1337.3	1352.1
20°	1320.1	1311.9	1329.8	1345.5	1354.5	1363.4	1354.5	1345.5	1329.8	1311.9	1320.1
22.5°	1294.7	1291.3	1311.0	1327.0	1331.8	1336.5	1331.8	1327.0	1311.0	1291.3	1294.7
25°	1254.5	1259.4	1276.6	1288.9	1286.7	1284.4	1286.7	1288.9	1276.6	1259.4	1254.5
27.5°	1215.8	1225.4	1235.9	1244.1	1245.4	1246.8	1245.4	1244.1	1235.9	1225.4	1215.8
30°	1184.9	1197.2	1207.7	1217.9	1227.6	1237.4	1227.6	1217.9	1207.7	1197.2	1184.9
32.5°	1150.3	1173.4	1198.2	1222.4	1244.7	1266.9	1244.7	1222.4	1198.2	1173.4	1150.3
35°	1101.5	1135.2	1176.3	1225.4	1298.6	1371.8	1298.6	1225.4	1176.3	1135.2	1101.5
37.5°	1050.2	1085.6	1121.0	1153.4	1176.7	1200.0	1176.7	1153.4	1121.0	1085.6	1050.2
40°	1014.3	1058.4	1104.0	1124.7	1070.9	1017.1	1070.9	1124.7	1104.0	1058.4	1014.3
42.5°	968.3	1016.9	1076.2	1098.0	1007.1	916.2	1007.1	1098.0	1076.2	1016.9	968.3
45°	900.6	927.5	943.1	938.7	873.7	808.6	873.7	938.7	943.1	927.5	900.6
47.5°	853.3	856.3	821.2	788.5	763.1	737.7	763.1	788.5	821.2	856.3	853.3
50°	828.8	824.3	768.3	722.2	705.7	689.3	705.7	722.2	768.3	824.3	828.8
52.5°	809.2	800.3	725.7	667.0	656.0	644.9	656.0	667.0	725.7	800.3	809.2
55°	786.2	774.3	671.9	594.6	592.3	590.1	592.3	594.6	671.9	774.3	786.2
57.5°	698.1	685.6	596.8	531.2	535.1	539.0	535.1	531.2	596.8	685.6	698.1
60°	611.8	599.8	538.5	491.5	487.0	482.5	487.0	491.5	538.5	599.8	611.8
62.5°	530.9	516.9	475.3	443.0	438.6	434.1	438.6	443.0	475.3	516.9	530.9
65°	435.1	414.9	380.5	354.7	354.7	354.7	354.7	354.7	380.5	414.9	435.1
67.5°	357.0	336.9	310.8	286.7	268.8	250.8	268.8	286.7	310.8	336.9	357.0
70°	306.9	283.0	253.9	229.0	217.1	205.1	217.1	229.0	253.9	283.0	306.9
72.5°	255.2	231.9	208.1	186.9	173.1	159.4	173.1	186.9	208.1	231.9	255.2
75°	182.5	159.0	137.3	120.7	119.2	117.7	119.2	120.7	137.3	159.0	182.5
77.5°	125.2	108.9	98.0	89.8	90.0	90.1	90.0	89.8	98.0	108.9	125.2
80°	85.2	73.6	72.9	72.5	73.2	74.0	73.2	72.5	72.9	73.6	85.2
82.5°	61.9	55.7	56.7	57.5	57.7	57.8	57.7	57.5	56.7	55.7	61.9
85°	34.4	32.1	29.1	26.7	26.0	25.2	26.0	26.7	29.1	32.1	34.4
87.5°	18.4	20.8	24.1	25.9	27.8	26.9	27.8	25.9	24.1	20.8	18.4
90°	53.9	70.3	86.7	96.1	105.5	100.8	105.5	96.1	86.7	70.3	53.9
92.5°	108.3	136.0	156.1	173.0	180.5	179.6	180.5	173.0	156.1	136.0	108.3
95°	218.0	250.8	283.6	307.1	321.2	316.5	321.2	307.1	283.6	250.8	218.0
97.5°	336.2	380.2	416.8	438.8	452.9	462.3	452.9	438.8	416.8	380.2	336.2
100°	414.9	457.1	499.3	525.1	548.5	557.9	548.5	525.1	499.3	457.1	414.9
102.5°	478.7	534.0	580.0	607.6	627.3	636.7	627.3	607.6	580.0	534.0	478.7
105°	583.7	642.3	691.5	726.7	747.8	754.8	747.8	726.7	691.5	642.3	583.7
107.5°	688.7	749.2	794.7	833.6	859.4	874.4	859.4	833.6	794.7	749.2	688.7
110°	771.2	820.5	869.7	904.9	930.6	940.0	930.6	904.9	869.7	820.5	771.2



TEST NUMBER: P1427971

CATALOG NUMBER: SQ2W-PH1-K-150U-075D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1427971

CATALOG NUMBER: SQ2W-PH1-K-150U-075D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1766.9	1766.9	1766.9	1766.9
2.5°	1767.8	1779.6	1771.3	1762.9
5°	1733.9	1768.8	1769.5	1770.3
7.5°	1644.8	1691.7	1714.8	1738.0
10°	1586.5	1639.5	1674.6	1709.8
12.5°	1534.0	1592.2	1647.6	1703.0
15°	1458.1	1517.2	1600.9	1684.5
17.5°	1391.2	1443.1	1533.2	1623.4
20°	1354.5	1402.5	1491.4	1580.3
22.5°	1321.3	1363.8	1453.9	1544.0
25°	1262.0	1293.0	1394.6	1496.3
27.5°	1207.0	1226.9	1333.0	1439.1
30°	1170.7	1186.5	1292.6	1398.7
32.5°	1129.0	1140.4	1250.1	1359.7
35°	1075.4	1084.4	1198.7	1313.0
37.5°	1014.8	1018.8	1141.4	1263.9
40°	971.7	971.9	1100.4	1228.9
42.5°	930.5	934.3	1062.8	1191.3
45°	862.4	867.3	1001.1	1134.8
47.5°	812.2	813.3	940.8	1068.2
50°	781.8	776.5	896.8	1017.1
52.5°	752.6	738.7	853.0	967.4
55°	707.8	676.4	786.2	896.1
57.5°	634.5	612.7	716.6	820.4
60°	574.4	571.6	672.5	773.3
62.5°	517.5	531.4	627.5	723.6
65°	441.0	467.4	554.8	642.2
67.5°	370.9	400.3	476.6	552.8
70°	325.6	356.4	423.7	490.9
72.5°	278.1	309.6	367.3	425.0
75°	207.9	238.5	284.9	331.2
77.5°	147.0	171.9	205.6	239.4
80°	107.6	130.8	156.2	181.6
82.5°	75.3	90.1	108.9	127.8
85°	35.9	39.2	48.2	57.2
87.5°	17.9	16.1	14.8	13.5
90°	42.2	25.8	16.4	7.0
92.5°	91.0	63.3	44.5	25.8
95°	182.8	145.3	103.1	72.7
97.5°	291.1	230.7	188.9	138.8
100°	349.3	290.7	250.8	196.9
102.5°	413.0	363.8	309.0	255.0
105°	527.4	466.5	403.2	342.3
107.5°	633.4	566.4	490.4	435.5
110°	700.9	628.2	548.5	499.3



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CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1427971
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.13	17.88	18.20	18.95	20.40	15.96	16.71	17.03	17.77	19.23
	3H	19.30	19.97	20.37	21.04	22.51	17.00	17.67	18.08	18.75	20.22
	4H	20.11	20.74	21.19	21.82	23.29	17.24	17.88	18.33	18.95	20.43
	6H	20.57	21.15	21.66	22.23	23.72	17.38	17.96	18.47	19.04	20.53
	8H	20.72	21.27	21.81	22.37	23.85	17.43	17.99	18.53	19.08	20.56
	12H	20.77	21.30	21.87	22.39	23.89	17.44	17.97	18.54	19.06	20.56
4H	2H	17.55	18.19	18.65	19.26	20.74	16.63	17.26	17.72	18.34	19.82
	3H	19.79	20.32	20.89	21.43	22.91	17.85	18.38	18.95	19.48	20.97
	4H	20.66	21.15	21.77	22.24	23.75	18.14	18.62	19.24	19.71	21.22
	6H	21.22	21.63	22.33	22.75	24.25	18.33	18.74	19.44	19.86	21.36
	8H	21.41	21.80	22.53	22.91	24.43	18.41	18.80	19.53	19.91	21.43
	12H	21.49	21.84	22.62	22.97	24.49	18.43	18.78	19.56	19.91	21.43
8H	4H	20.68	21.06	21.79	22.17	23.69	18.36	18.74	19.47	19.85	21.37
	6H	21.30	21.62	22.43	22.77	24.29	18.62	18.94	19.75	20.09	21.60
	8H	21.56	21.84	22.70	22.97	24.51	18.76	19.04	19.90	20.18	21.71
	12H	21.69	21.93	22.83	23.06	24.63	18.82	19.07	19.97	20.20	21.77
12H	4H	20.62	20.97	21.75	22.10	23.62	18.35	18.70	19.48	19.82	21.34
	6H	21.28	21.56	22.42	22.69	24.22	18.65	18.93	19.79	20.07	21.60
	8H	21.54	21.79	22.69	22.92	24.49	18.81	19.06	19.95	20.18	21.76