

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P861210

Luminaire Tested: **8APVTLD-SL3C3 LO POWER 4000K 277V**

Issue Date: 1/11/2023

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P861210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( NTCLR22090026)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 8APVTLTD-SL3C3 LO POWER 4000K 277V  
Description: LOW POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No. Condition Description

**Summary**

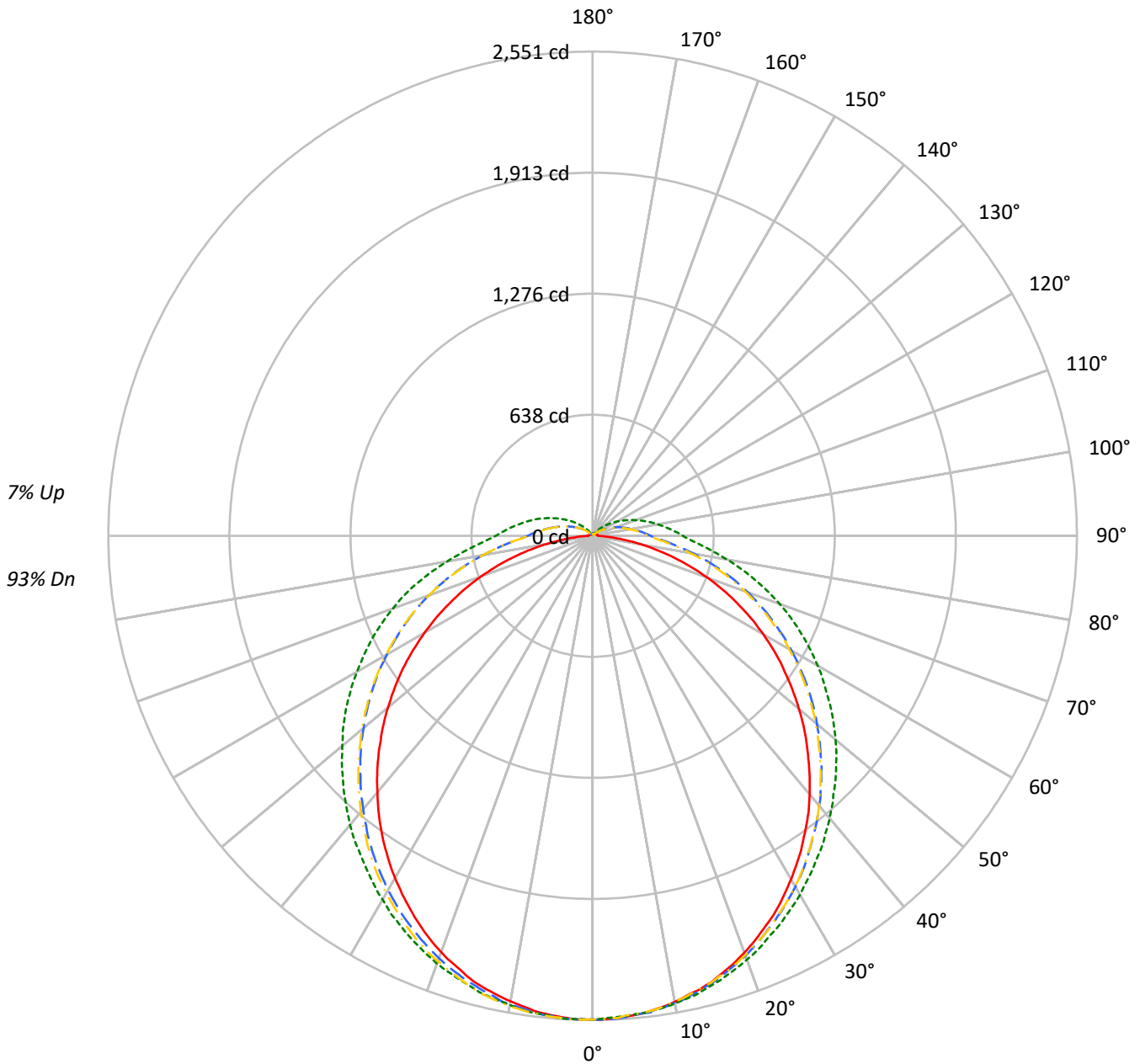
Lumens per Lamp: N/A  
Luminaire Lumens: 8657.9 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 60  
Input Voltage (V): 277  
Input Current (A<sub>in</sub>): 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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93																			
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	74																			
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	66	63	60																			
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50																			
4	79	66	57	50	76	65	56	49	61	54	48	58	52	46	55	49	45	43																			
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	43	39	37																			
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	44	39	34	32																			
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28																			
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27	25																			
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	34	29	24	22																			
10	50	37	29	24	49	36	29	23	35	28	23	33	27	22	32	26	22	20																			

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

	0°	90°	180°	270°
0°	10289	10289	10289	10289
5°	10264	10037	10262	10066
10°	10203	9825	10192	9850
15°	10133	9591	10124	9642
20°	10002	9358	9989	9444
25°	9860	9119	9828	9230
30°	9683	8897	9645	9016
35°	9490	8660	9451	8816
40°	9291	8463	9213	8657
45°	9049	8265	8983	8484
50°	8803	8082	8727	8334
55°	8524	7889	8464	8225
60°	8230	7715	8110	8079
65°	7851	7519	7688	7972
70°	7352	7325	7159	7827
75°	6635	7114	6418	7677
80°	5656	6915	5338	7476
85°	4399	6896	3911	7497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.1	2.8
10°-20°	689.3	8.0
20°-30°	1042.5	12.0
30°-40°	1260.2	14.6
40°-50°	1326.3	15.3
50°-60°	1245.9	14.4
60°-70°	1039.1	12.0
70°-80°	741.1	8.6
80°-90°	434.0	5.0
90°-100°	270.1	3.1
100°-110°	177.5	2.1
110°-120°	104.3	1.2
120°-130°	53.1	0.6
130°-140°	20.3	0.2
140°-150°	6.4	0.1
150°-160°	3.7	0.0
160°-170°	2.3	0.0
170°-180°	0.8	0.0
0°-30°	1972.9	22.8
0°-40°	3233.0	37.3
0°-60°	5805.2	67.1
0°-90°	8019.4	92.6
90°-120°	551.9	6.4
90°-150°	631.7	7.3
90°-180°	639.0	7.4
0°-180°	8657.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2549	2549	2549	2549	2549	
5°	2536	2531	2535	2539	2536	241
15°	2432	2449	2430	2462	2432	685
25°	2225	2286	2218	2314	2225	1024
35°	1940	2065	1932	2102	1940	1214
45°	1602	1810	1590	1858	1602	1236
55°	1229	1521	1221	1586	1229	1100
65°	840	1209	823	1282	840	831
75°	442	882	428	952	442	469
85°	106	574	94	624	106	118
90°	32	476	24	510	32	19
95°	27	410	22	441	27	22
105°	23	293	18	325	23	24
115°	19	194	16	218	19	19
125°	14	112	12	131	14	13
135°	11	50	8	62	11	9
145°	8	8	6	14	8	5
155°	7	7	7	10	7	3
165°	8	6	10	8	8	2
175°	10	7	11	7	10	1
180°	10	10	10	10	10	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9
1°	2549.1	2545.3	2551.0	2545.7	2545.5	2551.0	2548.3	2545.1	2548.9	2547.9	2549.8
2°	2546.7	2545.5	2549.6	2543.0	2540.8	2545.3	2545.3	2543.0	2548.9	2544.7	2550.0
3°	2545.5	2547.7	2547.1	2542.4	2539.3	2548.3	2544.7	2542.2	2544.9	2544.0	2549.1
4°	2540.6	2543.8	2542.6	2537.3	2535.1	2539.3	2533.4	2535.3	2539.4	2538.5	2541.2
5°	2535.5	2540.6	2534.2	2533.0	2531.2	2533.6	2532.2	2529.6	2534.9	2534.5	2538.1
6°	2530.0	2532.6	2529.8	2529.6	2528.5	2530.4	2526.3	2523.4	2528.5	2530.0	2537.5
7°	2521.0	2523.8	2529.5	2524.2	2522.8	2522.6	2522.0	2514.8	2522.4	2525.3	2526.3
8°	2512.4	2517.3	2518.9	2515.7	2517.1	2516.1	2514.6	2507.1	2510.1	2515.9	2520.8
9°	2504.4	2508.7	2509.3	2505.5	2510.1	2510.1	2501.8	2500.4	2500.6	2507.1	2513.6
10°	2493.8	2495.5	2497.3	2499.3	2502.8	2503.2	2491.6	2492.8	2491.2	2498.5	2507.3
11°	2481.4	2486.9	2491.2	2489.5	2493.6	2489.5	2483.0	2480.1	2480.3	2486.9	2500.1
12°	2467.3	2469.9	2476.9	2477.5	2485.0	2478.9	2470.5	2468.1	2468.1	2474.0	2483.4
13°	2459.7	2459.7	2464.4	2465.8	2474.6	2470.3	2454.8	2452.0	2456.0	2457.1	2470.7
14°	2444.6	2447.1	2450.1	2454.8	2460.1	2456.2	2445.2	2439.1	2443.0	2444.0	2459.5
15°	2431.5	2429.9	2438.1	2442.0	2448.9	2441.5	2433.6	2425.4	2429.5	2432.2	2444.8
16°	2412.7	2416.4	2425.2	2427.2	2436.4	2428.5	2416.6	2403.8	2410.9	2416.0	2433.6
17°	2394.8	2398.3	2404.8	2412.7	2421.3	2416.6	2405.2	2389.3	2390.1	2400.5	2416.6
18°	2377.4	2383.8	2388.2	2395.4	2406.8	2401.9	2387.2	2371.3	2372.3	2382.1	2401.9
19°	2357.2	2362.7	2372.9	2384.4	2393.1	2385.4	2368.9	2348.6	2355.4	2363.3	2385.6
20°	2337.4	2341.7	2355.6	2366.8	2376.8	2368.8	2351.3	2331.7	2334.3	2341.1	2368.2
21°	2316.2	2318.0	2333.9	2347.8	2361.1	2349.5	2331.5	2311.3	2313.3	2321.9	2349.2
22°	2293.1	2298.2	2315.6	2332.3	2343.9	2333.9	2312.3	2292.3	2290.6	2302.9	2330.5
23°	2270.2	2276.3	2293.1	2311.1	2322.9	2314.5	2293.3	2270.6	2266.5	2280.2	2310.9
24°	2247.6	2256.3	2271.2	2291.5	2302.9	2292.7	2274.1	2246.7	2242.3	2256.7	2290.4
25°	2224.7	2232.6	2250.4	2274.9	2286.1	2272.9	2249.4	2222.2	2217.5	2234.5	2268.8
26°	2200.4	2206.7	2227.8	2252.3	2267.2	2254.5	2226.1	2198.5	2190.2	2209.8	2249.2
27°	2174.7	2181.2	2207.3	2230.4	2244.9	2236.1	2204.1	2170.2	2163.6	2182.4	2226.1
28°	2146.1	2157.5	2183.4	2208.4	2225.3	2213.1	2181.6	2144.8	2137.7	2157.1	2202.6
29°	2118.1	2131.8	2159.6	2189.2	2205.7	2190.4	2156.1	2118.7	2108.9	2132.0	2178.9
30°	2089.9	2100.3	2135.2	2166.7	2184.3	2166.7	2132.4	2092.6	2081.8	2103.4	2155.1
31°	2060.9	2073.8	2111.0	2144.4	2158.5	2144.8	2108.5	2062.1	2054.2	2075.8	2128.9
32°	2032.7	2045.8	2084.8	2119.1	2136.1	2121.8	2081.5	2033.4	2024.0	2048.9	2103.6
33°	2004.0	2017.2	2057.9	2094.8	2114.6	2094.0	2053.4	2007.8	1992.5	2019.3	2078.7
34°	1972.1	1986.6	2028.5	2071.5	2089.5	2070.3	2026.6	1974.5	1962.7	1990.9	2052.1
35°	1939.9	1957.5	2000.1	2046.6	2065.2	2044.2	1999.1	1943.5	1931.9	1960.5	2025.6
36°	1908.7	1929.1	1971.7	2020.7	2044.8	2021.7	1969.9	1914.0	1899.2	1930.4	1996.6
37°	1878.4	1900.3	1943.7	1995.0	2020.3	1994.6	1940.1	1885.3	1867.4	1900.1	1970.5
38°	1847.3	1865.1	1916.0	1968.8	1991.3	1967.2	1914.2	1848.9	1832.9	1869.9	1938.2
39°	1811.6	1834.7	1886.9	1942.0	1967.6	1942.9	1885.8	1815.1	1798.8	1839.8	1911.2
40°	1778.7	1802.7	1856.9	1918.1	1943.0	1916.2	1855.9	1784.4	1763.8	1808.5	1880.5
41°	1742.2	1769.5	1828.7	1891.9	1915.2	1889.3	1823.1	1752.6	1730.9	1777.2	1851.6
42°	1708.0	1735.0	1795.3	1863.2	1890.8	1861.3	1791.1	1718.6	1696.3	1742.6	1823.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1601.7	1634.6	1705.6	1782.1	1809.9	1776.5	1696.1	1613.6	1590.1	1642.9	1730.1
46°	1566.1	1598.7	1671.3	1752.9	1781.9	1748.2	1665.5	1579.2	1552.4	1608.6	1701.0
47°	1530.7	1563.8	1638.6	1724.9	1754.2	1718.8	1630.3	1544.0	1519.1	1572.0	1668.8
48°	1494.4	1528.4	1609.1	1695.6	1727.8	1691.6	1597.6	1507.6	1481.5	1537.7	1642.2
49°	1457.5	1493.6	1575.3	1666.9	1699.9	1660.9	1564.3	1470.4	1445.5	1500.8	1606.4
50°	1419.3	1456.5	1542.1	1635.9	1670.4	1630.6	1533.3	1435.6	1407.0	1465.5	1574.0
51°	1382.2	1417.8	1512.3	1604.5	1641.3	1602.2	1500.8	1399.4	1369.3	1429.1	1545.2
52°	1343.6	1384.5	1479.4	1576.3	1610.5	1569.8	1465.5	1361.9	1332.5	1396.2	1512.2
53°	1305.6	1348.2	1446.4	1548.1	1582.0	1540.1	1434.7	1325.9	1293.8	1359.0	1480.7
54°	1267.4	1312.1	1413.1	1515.9	1551.2	1509.1	1399.5	1288.7	1256.3	1322.8	1449.4
55°	1229.3	1275.3	1379.4	1482.6	1521.2	1479.8	1366.4	1252.0	1220.6	1286.2	1417.1
56°	1193.8	1237.5	1346.5	1451.6	1488.1	1445.6	1332.2	1216.0	1179.5	1250.2	1383.1
57°	1154.4	1200.4	1311.2	1422.9	1459.4	1416.3	1298.7	1178.6	1140.8	1214.5	1350.7
58°	1115.7	1163.9	1277.9	1388.8	1429.7	1384.2	1264.1	1142.3	1100.9	1175.4	1318.8
59°	1076.9	1125.3	1244.5	1358.4	1401.1	1352.6	1231.0	1104.0	1062.0	1140.0	1284.3
60°	1037.8	1086.5	1210.0	1326.9	1369.5	1318.5	1196.1	1064.1	1022.7	1104.6	1251.5
61°	998.0	1049.0	1177.0	1293.2	1336.9	1287.7	1164.2	1027.6	983.1	1067.1	1217.9
62°	960.1	1012.0	1144.1	1262.5	1307.0	1256.2	1129.8	989.3	944.8	1029.4	1184.0
63°	920.0	975.2	1107.2	1226.7	1274.7	1221.2	1092.9	952.7	903.5	994.9	1151.4
64°	879.4	938.4	1073.3	1195.5	1243.8	1190.2	1058.8	915.5	862.3	957.7	1117.6
65°	840.4	900.2	1039.8	1164.7	1209.3	1154.8	1025.2	878.5	822.9	920.1	1083.6
66°	800.4	864.3	1006.6	1132.3	1178.3	1124.1	991.7	839.8	784.2	884.5	1052.5
67°	761.0	826.9	970.5	1101.0	1145.2	1090.8	956.1	804.5	745.2	848.4	1020.1
68°	720.7	790.4	935.8	1065.3	1114.4	1057.2	921.9	767.6	704.6	811.3	986.1
69°	681.3	753.7	903.2	1032.5	1079.9	1024.1	887.5	731.2	665.7	774.7	952.2
70°	640.8	717.2	869.4	997.4	1047.0	990.4	852.2	694.8	624.0	739.7	918.8
71°	599.6	681.5	834.8	965.2	1014.7	956.6	817.7	658.1	583.7	703.3	884.0
72°	560.0	644.7	803.2	932.0	981.4	924.0	783.7	622.4	545.5	667.2	851.9
73°	520.1	608.3	769.0	895.0	947.3	891.1	750.0	585.1	506.3	631.3	817.0
74°	481.4	573.8	735.2	860.6	913.5	858.5	716.4	552.8	466.2	596.3	784.5
75°	442.0	538.2	701.0	826.5	881.7	826.2	682.7	515.8	427.5	560.3	749.3
76°	404.1	504.0	668.6	795.7	846.7	791.0	649.3	480.5	389.4	526.5	716.6
77°	366.2	471.0	635.7	764.9	815.6	761.4	618.0	446.9	351.5	492.1	683.6
78°	328.9	438.0	602.6	732.4	781.8	724.9	582.8	414.5	314.2	458.4	649.8
79°	292.6	405.6	570.2	700.3	751.9	697.2	553.7	382.5	278.0	425.8	617.5
80°	257.7	374.2	539.6	667.2	719.3	663.1	521.4	351.1	243.2	393.0	585.0
81°	223.5	344.3	508.6	637.7	688.1	634.8	493.0	321.3	209.7	362.9	555.5
82°	191.2	315.0	479.0	606.6	656.8	604.8	462.8	291.9	176.9	331.1	524.5
83°	160.6	287.0	450.6	577.7	628.0	576.5	435.2	264.7	145.9	303.6	496.1
84°	132.2	259.8	423.9	549.0	602.3	547.6	408.9	239.2	118.2	275.9	469.0
85°	106.3	234.7	399.1	523.5	574.4	522.9	385.2	215.9	94.5	250.1	443.6
86°	82.7	210.8	374.8	498.6	550.9	499.3	362.2	194.1	72.9	227.2	419.7
87°	62.1	190.0	351.2	474.1	526.7	476.7	340.4	174.3	53.5	206.8	396.4



TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	31.5	147.7	305.0	423.6	476.2	427.4	295.4	132.9	23.9	159.6	342.6
91°	30.1	139.8	294.5	410.2	460.8	412.4	282.9	124.7	23.0	150.2	329.6
92°	29.4	131.8	283.7	398.0	449.1	401.7	275.3	117.7	22.5	142.0	318.1
93°	28.7	124.5	273.5	386.8	434.0	387.6	264.9	110.1	22.0	133.5	306.1
94°	27.9	117.5	263.4	374.7	422.2	376.9	254.7	103.9	22.0	125.1	295.2
95°	27.2	110.7	253.8	363.9	409.8	363.8	244.8	97.2	21.6	117.1	283.0
96°	27.0	103.6	244.4	352.7	396.2	353.3	236.3	91.4	20.1	110.2	272.5
97°	26.0	97.9	235.1	340.9	385.2	340.0	225.6	85.8	19.9	103.0	261.2
98°	25.6	92.2	225.4	330.9	371.7	330.2	217.3	80.3	19.4	96.5	251.2
99°	25.1	86.6	216.7	321.0	360.4	319.6	208.3	75.6	19.2	90.2	241.0
100°	24.6	81.7	207.5	310.1	347.9	309.3	199.1	71.0	18.5	84.2	230.4
101°	24.4	77.3	199.2	299.5	337.4	298.1	190.7	65.8	18.5	78.4	221.5
102°	24.4	72.8	190.8	288.0	324.5	287.5	182.8	61.7	18.5	73.9	210.8
103°	23.9	68.3	182.4	278.2	315.8	276.9	175.9	57.4	18.4	69.0	202.3
104°	23.4	64.1	174.5	267.7	302.6	265.7	167.7	53.1	18.4	64.3	193.8
105°	23.0	60.1	167.0	257.4	293.4	256.4	160.1	49.4	18.3	59.8	184.7
106°	22.5	55.8	159.4	247.1	281.4	245.8	152.2	45.8	18.3	55.5	176.6
107°	21.8	52.4	152.2	238.2	272.1	237.5	145.2	42.2	18.2	51.4	167.9
108°	21.3	48.9	144.6	228.2	260.5	227.2	137.6	39.0	18.0	47.1	159.8
109°	21.1	45.1	137.9	218.8	251.6	219.5	130.9	35.7	17.8	43.6	152.9
110°	20.8	41.8	131.0	209.9	240.0	209.9	123.6	32.6	17.1	39.6	144.1
111°	20.4	38.4	124.4	201.1	231.6	201.1	117.5	30.0	16.8	36.2	137.5
112°	19.7	35.6	117.9	192.8	221.0	191.9	111.0	26.7	16.8	33.1	129.5
113°	19.4	32.5	111.6	183.8	212.2	182.9	104.9	24.1	16.3	29.4	122.4
114°	19.2	30.1	105.7	175.2	202.8	173.4	98.9	21.5	16.1	26.8	116.2
115°	18.7	27.5	99.6	166.8	194.4	165.9	93.0	19.8	15.6	23.7	109.2
116°	18.2	25.1	94.0	159.1	184.9	156.6	86.9	18.4	15.2	21.5	102.7
117°	17.8	23.0	88.4	151.0	175.9	149.5	81.8	16.0	15.4	19.0	96.8
118°	17.5	21.6	83.0	143.4	167.9	141.4	77.0	15.4	15.1	17.1	90.3
119°	17.0	20.2	78.2	136.0	159.7	134.1	71.6	14.4	14.7	15.2	84.6
120°	16.8	19.4	72.9	128.6	152.3	126.6	66.7	14.4	14.4	14.5	78.4
121°	16.6	18.7	68.0	122.1	142.9	119.6	61.4	14.6	14.1	14.2	73.2
122°	16.1	18.5	63.1	114.7	136.5	112.8	56.7	14.2	13.7	14.2	68.5
123°	15.6	18.0	58.5	108.1	127.8	106.0	52.1	14.2	13.3	13.8	62.5
124°	14.9	17.6	53.7	101.6	121.0	99.0	47.3	13.0	12.3	13.5	57.6
125°	14.2	17.5	49.0	95.0	112.5	92.8	42.8	12.7	12.1	13.1	53.1
126°	14.0	17.1	44.7	88.7	106.6	86.0	38.5	12.3	11.8	12.8	47.6
127°	13.5	16.6	40.2	82.7	98.6	79.9	34.2	11.8	11.1	12.4	42.9
128°	13.3	16.1	36.1	77.4	93.0	74.5	30.8	11.3	10.8	12.0	38.2
129°	12.8	15.7	32.4	71.2	85.3	68.4	26.5	11.1	10.4	11.7	33.9
130°	12.6	15.3	28.8	65.4	80.0	62.8	23.4	10.9	10.0	11.4	29.8
131°	12.1	14.8	25.2	60.1	73.1	57.2	19.8	10.6	9.6	11.0	25.5
132°	11.8	14.4	21.9	54.5	68.2	51.5	16.8	10.4	9.2	10.8	22.8





TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	11.1	13.3	14.5	39.7	50.1	36.9	10.5	9.7	8.0	10.2	12.2
136°	10.9	12.8	13.6	35.0	45.0	32.2	9.8	9.0	7.9	9.9	11.0
137°	10.4	12.8	12.9	30.7	39.3	27.7	9.3	8.7	7.9	9.0	11.0
138°	10.2	12.1	12.9	26.7	34.9	23.6	8.8	8.3	7.8	8.5	9.3
139°	9.9	12.1	12.4	22.6	29.5	19.7	8.1	7.8	7.8	8.3	8.6
140°	9.7	11.6	11.9	19.0	25.6	16.2	7.9	7.6	7.7	7.8	8.6
141°	9.5	10.9	11.9	15.7	20.8	12.8	7.6	7.1	7.6	7.6	8.3
142°	9.2	10.7	11.4	13.3	16.8	10.6	7.2	6.8	7.6	7.4	8.2
143°	8.9	10.2	11.2	11.9	13.0	8.9	7.1	7.1	7.3	7.6	8.1
144°	8.6	10.2	10.7	11.7	10.5	8.4	7.0	6.8	6.6	7.3	7.9
145°	8.3	10.2	10.2	11.2	8.2	7.9	6.9	7.1	6.5	7.3	7.8
146°	8.1	9.7	10.0	11.0	7.7	7.7	6.8	6.6	6.4	7.3	7.6
147°	7.9	9.0	9.8	10.8	7.6	7.6	6.7	6.6	6.4	7.3	7.6
148°	7.8	9.0	9.5	10.6	7.5	7.5	6.7	6.6	6.4	7.3	7.9
149°	7.6	8.5	9.1	10.4	7.4	7.3	6.2	6.6	6.4	7.3	7.6
150°	7.5	8.5	9.3	10.2	7.3	7.2	6.0	6.6	6.5	7.3	7.6
151°	7.3	8.3	9.1	9.8	7.2	7.1	6.0	6.6	6.5	7.3	7.5
152°	7.3	7.8	8.9	9.8	7.0	7.0	6.0	6.6	6.5	7.3	7.4
153°	7.1	7.9	8.7	9.3	6.9	6.9	6.1	6.6	6.6	7.3	7.3
154°	7.1	7.9	8.5	9.1	6.9	6.7	6.2	6.6	6.6	7.3	7.2
155°	7.1	7.9	8.3	9.1	6.8	6.6	6.3	6.6	6.7	7.3	7.1
156°	7.1	8.0	8.3	8.8	6.8	6.6	6.3	6.6	6.7	7.3	7.1
157°	7.1	8.0	8.3	8.7	6.8	6.7	6.4	6.6	6.7	7.4	7.0
158°	7.1	8.1	8.3	8.7	6.7	6.7	6.5	6.6	6.8	7.4	6.9
159°	7.1	8.3	8.3	8.6	6.7	6.7	6.5	6.6	6.8	7.4	6.8
160°	7.2	8.3	8.3	8.5	6.7	6.8	6.6	6.6	6.8	7.4	6.7
161°	7.2	8.3	8.3	8.4	6.6	6.8	6.7	6.8	6.9	7.8	7.6
162°	7.3	8.4	8.3	8.3	6.6	6.8	6.8	7.5	7.6	8.1	8.6
163°	7.4	8.4	8.3	8.3	6.6	6.8	6.9	7.8	8.5	8.8	8.8
164°	7.4	8.4	8.3	7.9	6.5	6.9	7.0	8.0	9.0	9.0	9.3
165°	7.5	8.4	8.3	7.9	6.5	6.9	7.0	8.3	9.5	9.0	9.5
166°	7.7	8.4	8.3	7.8	6.5	6.9	7.1	8.7	9.7	9.3	9.5
167°	7.8	8.5	8.3	7.7	6.4	7.0	7.2	9.0	10.2	9.3	10.2
168°	8.0	8.5	8.3	7.7	6.4	7.0	7.3	8.9	10.9	9.3	10.7
169°	8.2	8.5	8.3	7.6	6.3	7.0	7.4	8.9	10.9	9.3	10.7
170°	8.4	8.5	8.3	7.5	6.3	7.0	7.6	8.9	10.8	9.3	11.0
171°	8.5	9.0	8.3	7.5	6.4	7.1	7.6	8.9	10.8	9.4	11.0
172°	8.8	9.7	8.3	7.6	6.5	7.1	7.7	8.9	10.8	9.4	11.4
173°	9.0	10.2	8.3	7.6	6.6	7.1	7.8	8.8	10.8	9.4	12.1
174°	9.2	11.4	8.3	7.6	6.6	7.2	7.9	8.8	10.7	9.4	11.9
175°	9.5	11.1	8.3	7.6	6.7	7.2	8.0	8.8	10.7	9.4	11.9
176°	9.7	11.4	8.3	7.6	6.7	7.4	8.1	8.8	10.7	9.5	11.7
177°	9.5	11.6	8.3	7.6	6.7	7.7	8.1	8.7	10.7	9.5	11.9



TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5



TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9
1°	2546.7	2548.3	2552.0	2550.4	2548.9	2549.1
2°	2546.9	2547.9	2551.2	2550.2	2549.1	2546.7
3°	2544.0	2548.3	2551.6	2550.4	2547.7	2545.5
4°	2542.2	2547.7	2549.4	2544.5	2541.8	2540.6
5°	2538.9	2538.7	2549.4	2543.4	2538.7	2535.5
6°	2534.0	2536.3	2543.8	2540.2	2535.5	2530.0
7°	2531.4	2533.4	2537.5	2532.4	2527.3	2521.0
8°	2522.4	2527.9	2535.1	2529.3	2519.3	2512.4
9°	2516.9	2521.0	2526.5	2521.6	2510.6	2504.4
10°	2511.6	2509.1	2518.7	2517.3	2500.6	2493.8
11°	2503.2	2502.0	2508.9	2509.1	2490.1	2481.4
12°	2493.6	2496.5	2499.9	2498.1	2480.5	2467.3
13°	2483.0	2485.6	2491.6	2488.9	2466.0	2459.7
14°	2473.4	2477.1	2479.7	2479.5	2452.2	2444.6
15°	2461.6	2461.8	2470.5	2464.8	2439.3	2431.5
16°	2447.5	2449.5	2458.5	2447.7	2424.4	2412.7
17°	2435.4	2437.3	2444.8	2432.6	2409.3	2394.8
18°	2420.9	2424.2	2431.3	2416.4	2390.5	2377.4
19°	2404.0	2412.5	2417.4	2400.5	2369.7	2357.2
20°	2390.7	2398.7	2400.7	2385.0	2349.0	2337.4
21°	2371.3	2380.9	2386.6	2369.3	2330.1	2316.2
22°	2352.9	2367.0	2367.8	2349.9	2308.4	2293.1
23°	2334.1	2348.4	2354.1	2332.3	2286.2	2270.2
24°	2317.6	2332.9	2333.5	2310.4	2264.1	2247.6
25°	2294.1	2313.9	2312.1	2288.8	2241.0	2224.7
26°	2276.1	2295.1	2293.5	2268.4	2217.7	2200.4
27°	2257.8	2275.5	2276.4	2244.5	2194.5	2174.7
28°	2238.8	2258.8	2254.5	2221.2	2166.1	2146.1
29°	2221.0	2235.1	2232.2	2197.9	2139.5	2118.1
30°	2198.3	2213.5	2209.6	2174.1	2113.8	2089.9
31°	2175.7	2194.1	2189.4	2148.9	2085.8	2060.9
32°	2153.6	2171.6	2168.3	2124.6	2054.0	2032.7
33°	2129.7	2147.7	2145.9	2099.5	2029.9	2004.0
34°	2106.5	2125.2	2123.2	2071.7	2000.9	1972.1
35°	2080.9	2102.2	2098.5	2043.6	1968.0	1939.9
36°	2056.8	2079.5	2073.2	2017.4	1940.7	1908.7
37°	2029.9	2057.0	2047.9	1985.0	1908.9	1878.4
38°	2005.6	2036.6	2021.9	1958.6	1877.5	1847.3
39°	1981.1	2013.1	1998.0	1929.1	1847.8	1811.6
40°	1956.9	1987.6	1971.1	1899.0	1816.3	1778.7
41°	1929.6	1961.9	1944.4	1868.5	1782.5	1742.2
42°	1904.8	1936.3	1919.3	1838.5	1750.3	1708.0



TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1822.8	1857.8	1838.0	1744.7	1650.2	1601.7
46°	1791.9	1829.1	1810.4	1714.0	1615.1	1566.1
47°	1765.0	1805.1	1782.0	1683.2	1579.3	1530.7
48°	1737.9	1777.5	1752.7	1649.0	1544.7	1494.4
49°	1712.1	1747.0	1721.5	1617.2	1510.2	1457.5
50°	1680.6	1722.5	1693.8	1585.9	1474.1	1419.3
51°	1655.0	1693.3	1663.0	1555.5	1438.4	1382.2
52°	1624.2	1669.7	1632.2	1522.8	1401.7	1343.6
53°	1594.6	1641.3	1604.1	1488.6	1365.6	1305.6
54°	1564.5	1612.1	1575.2	1456.1	1331.3	1267.4
55°	1536.5	1586.0	1544.8	1425.5	1293.2	1229.3
56°	1504.5	1554.5	1511.6	1390.2	1258.4	1193.8
57°	1474.4	1524.3	1480.2	1356.5	1222.1	1154.4
58°	1444.4	1497.1	1448.5	1322.5	1185.3	1115.7
59°	1414.2	1463.9	1416.8	1291.5	1149.7	1076.9
60°	1383.1	1434.1	1386.1	1256.6	1112.5	1037.8
61°	1348.7	1402.4	1352.8	1223.4	1073.8	998.0
62°	1318.5	1371.7	1323.4	1190.3	1037.9	960.1
63°	1289.1	1342.2	1291.4	1157.8	999.6	920.0
64°	1257.2	1312.0	1261.6	1122.1	962.6	879.4
65°	1221.9	1282.2	1228.0	1089.1	925.7	840.4
66°	1191.6	1248.1	1193.8	1054.8	888.8	800.4
67°	1158.1	1216.7	1162.8	1021.4	850.9	761.0
68°	1126.9	1185.1	1126.9	987.7	813.1	720.7
69°	1092.7	1152.4	1096.1	953.4	776.9	681.3
70°	1059.3	1118.8	1064.3	918.4	742.0	640.8
71°	1025.0	1087.3	1030.3	883.3	704.5	599.6
72°	993.7	1056.5	997.9	849.4	668.8	560.0
73°	958.9	1021.0	963.0	814.8	632.4	520.1
74°	927.0	989.1	932.5	782.0	596.1	481.4
75°	894.6	951.5	897.7	747.7	561.7	442.0
76°	862.1	918.3	866.2	714.9	527.7	404.1
77°	831.2	881.1	833.3	682.2	492.9	366.2
78°	798.0	846.3	800.5	649.2	458.6	328.9
79°	767.1	812.3	768.6	616.9	426.1	292.6
80°	733.8	777.6	736.5	585.9	393.7	257.7
81°	702.6	745.7	705.1	555.5	362.5	223.5
82°	671.2	712.4	672.5	526.0	332.6	191.2
83°	643.8	682.4	643.0	497.4	303.5	160.6
84°	614.7	652.7	613.5	469.2	276.4	132.2
85°	587.2	624.4	584.2	443.3	250.4	106.3
86°	563.4	596.2	559.0	418.2	226.5	82.7
87°	540.1	571.6	533.6	393.7	202.5	62.1



TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	481.8	510.3	472.4	337.2	155.9	31.5
91°	464.8	496.2	457.5	324.8	146.2	30.1
92°	452.6	481.1	444.6	312.5	138.2	29.4
93°	437.6	467.9	430.2	301.6	129.7	28.7
94°	424.6	454.0	417.5	289.7	122.3	27.9
95°	410.2	441.4	404.4	278.5	115.1	27.2
96°	397.4	428.5	390.8	268.6	108.0	27.0
97°	383.4	416.3	378.4	257.9	101.0	26.0
98°	371.4	404.3	366.5	248.4	94.4	25.6
99°	357.7	391.5	354.3	238.8	88.8	25.1
100°	347.0	379.5	343.5	228.5	83.1	24.6
101°	333.3	368.2	331.3	218.5	78.6	24.4
102°	322.1	357.0	319.8	209.5	73.8	24.4
103°	310.0	345.3	308.3	200.4	68.9	23.9
104°	299.4	335.1	296.7	191.9	64.5	23.4
105°	287.7	325.2	285.9	183.4	60.5	23.0
106°	276.6	314.4	275.3	174.7	55.9	22.5
107°	265.4	303.5	265.6	166.5	51.9	21.8
108°	254.3	292.5	255.6	158.1	48.4	21.3
109°	244.6	280.7	245.9	150.6	44.9	21.1
110°	235.2	270.0	235.7	143.1	41.5	20.8
111°	223.6	258.7	225.3	135.5	38.0	20.4
112°	214.5	248.0	215.3	128.4	35.4	19.7
113°	205.1	237.7	205.8	121.8	32.5	19.4
114°	196.0	228.0	196.8	115.0	29.8	19.2
115°	187.0	217.9	187.1	108.5	27.4	18.7
116°	178.1	208.2	178.4	102.2	25.0	18.2
117°	169.5	199.2	169.6	96.2	22.9	17.8
118°	161.0	189.7	161.9	90.5	21.7	17.5
119°	152.3	180.7	153.4	84.8	20.8	17.0
120°	144.5	171.5	145.4	80.0	20.5	16.8
121°	136.1	163.3	137.7	74.5	19.8	16.6
122°	128.9	155.1	129.7	69.2	19.4	16.1
123°	121.1	146.5	122.5	64.0	19.4	15.6
124°	113.4	138.0	114.8	58.8	19.1	14.9
125°	107.1	130.6	108.4	54.2	18.4	14.2
126°	99.5	122.2	101.1	49.3	18.2	14.0
127°	92.9	115.4	94.1	44.7	17.9	13.5
128°	86.3	107.6	87.7	40.4	17.2	13.3
129°	79.3	100.7	80.9	36.1	17.0	12.8
130°	73.8	93.7	75.2	32.0	16.8	12.6
131°	67.7	86.6	68.9	28.2	16.1	12.1
132°	61.4	80.3	63.1	24.8	15.6	11.8



TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	44.7	61.5	46.4	16.5	14.4	11.1
136°	39.5	55.6	41.0	15.3	13.9	10.9
137°	33.9	50.0	36.4	14.6	13.2	10.4
138°	29.4	44.6	31.5	14.1	13.0	10.2
139°	24.6	39.2	27.3	13.7	12.5	9.9
140°	20.3	34.1	23.0	13.3	12.0	9.7
141°	16.3	29.4	19.2	13.0	11.8	9.5
142°	12.2	25.0	15.8	12.6	11.6	9.2
143°	10.1	20.8	13.9	12.2	11.3	8.9
144°	9.1	16.9	13.2	11.9	10.4	8.6
145°	8.3	13.9	12.7	11.7	10.6	8.3
146°	8.1	12.5	12.5	11.0	10.3	8.1
147°	7.9	12.2	12.2	10.8	10.1	7.9
148°	7.6	11.8	11.8	10.5	9.8	7.8
149°	7.2	11.5	11.5	10.0	9.5	7.6
150°	7.4	11.1	11.5	9.8	9.2	7.5
151°	7.2	10.8	11.0	9.8	9.0	7.3
152°	6.9	10.6	10.6	9.6	8.8	7.3
153°	6.9	10.3	10.6	9.5	8.6	7.1
154°	6.9	10.1	10.4	9.5	8.7	7.1
155°	7.0	9.8	10.3	9.5	8.7	7.1
156°	7.0	9.4	10.1	9.4	8.7	7.1
157°	7.0	9.4	10.0	9.4	8.7	7.1
158°	7.0	9.1	9.8	9.4	8.8	7.1
159°	7.1	9.4	9.6	9.4	8.8	7.1
160°	7.1	8.9	9.4	9.3	8.8	7.2
161°	7.1	9.1	9.1	9.3	8.8	7.2
162°	7.1	8.9	9.4	9.3	8.9	7.3
163°	7.6	8.9	9.3	9.2	8.9	7.4
164°	7.4	8.6	9.2	9.2	8.9	7.4
165°	7.6	8.4	9.1	9.2	8.9	7.5
166°	7.9	8.2	9.0	9.2	8.9	7.7
167°	8.3	8.2	9.0	9.1	9.0	7.8
168°	8.6	8.4	8.9	9.1	9.2	8.0
169°	8.6	7.9	8.6	9.1	9.7	8.2
170°	8.5	7.7	8.4	9.0	9.7	8.4
171°	8.5	7.7	8.4	9.0	9.9	8.5
172°	8.5	7.9	8.3	9.0	10.4	8.8
173°	8.4	7.4	8.3	9.0	10.4	9.0
174°	8.4	7.4	8.2	8.9	10.4	9.2
175°	8.4	7.2	8.2	8.9	10.6	9.5
176°	8.4	7.2	8.2	8.9	10.6	9.7
177°	8.3	7.2	8.2	8.8	10.6	9.5



TEST NUMBER: P861210

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	9.5	9.5	9.5	9.5	9.5	9.5



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°







43°	1671.7	1701.5	1767.0	1836.7	1859.9	1833.6	1760.5	1684.8	1662.0	1708.2	1792.2
44°	1636.6	1668.6	1734.5	1808.1	1835.9	1805.3	1730.1	1648.1	1626.0	1678.4	1760.8



88°	46.7	172.6	332.1	454.4	509.3	459.2	323.5	156.5	38.6	189.0	375.0
89°	36.2	158.1	318.2	437.2	489.1	439.9	307.5	142.7	28.4	172.5	356.7



133°	11.6	14.0	18.8	49.3	61.6	46.6	14.3	10.1	8.8	10.6	18.3
134°	11.1	13.5	16.2	44.6	56.4	41.2	11.5	9.9	8.1	10.4	14.8



178°	9.5	11.6	8.3	7.6	7.0	7.4	8.1	8.7	10.7	9.5	11.7
179°	9.5	11.6	8.3	7.6	7.2	7.4	8.1	8.7	10.7	9.5	11.7







43°	1876.0	1909.9	1892.0	1806.6	1717.2	1671.7
44°	1851.4	1884.6	1864.1	1776.8	1684.0	1636.6



88°	518.5	548.1	510.3	371.2	184.7	46.7
89°	498.0	528.9	491.3	353.9	168.3	36.2



133°	56.0	74.0	57.0	21.5	15.1	11.6
134°	49.8	67.6	51.6	18.4	14.9	11.1



178°	8.3	7.2	8.2	8.8	10.6	9.5
179°	8.3	7.2	8.2	8.8	10.6	9.5



(END OF REPORT)