

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: P861208

Luminaire Tested: **8APVTLD-SL3C3 LO POWER 3500K 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: P861208
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: 8APVTLD-SL3C3 LO POWER 3500K 277V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

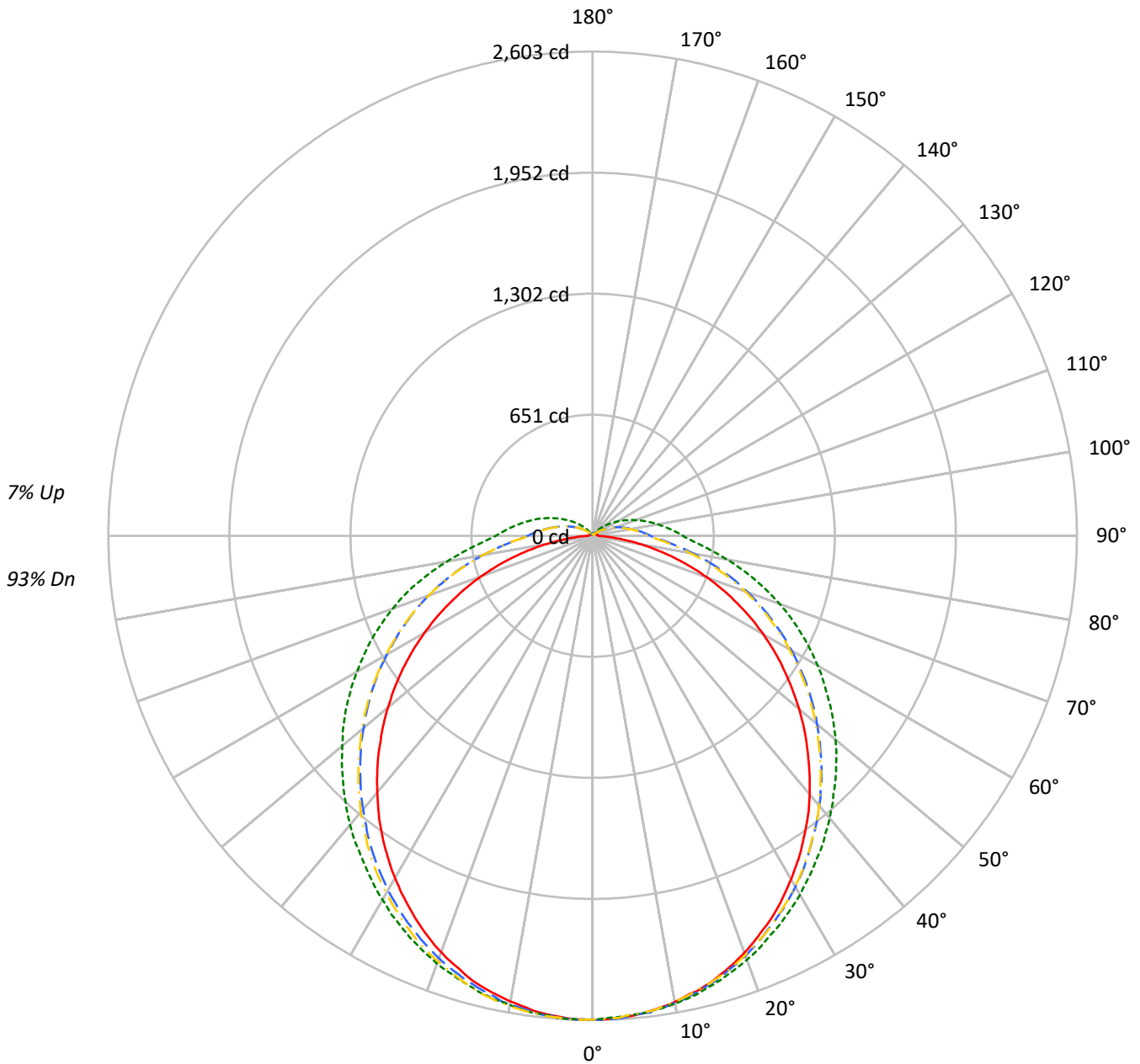
Lumens per Lamp: N/A
Luminaire Lumens: 8835.3 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 60
Input Voltage (V): 277
Input Current (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: 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				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	66	63	63	63	63	60
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	43	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10499	10499	10499	10499
5°	10475	10242	10472	10273
10°	10412	10027	10401	10052
15°	10340	9788	10332	9839
20°	10207	9550	10194	9638
25°	10062	9305	10030	9419
30°	9881	9079	9843	9201
35°	9685	8838	9644	8996
40°	9482	8636	9402	8834
45°	9234	8434	9168	8658
50°	8984	8247	8906	8505
55°	8699	8050	8637	8393
60°	8399	7873	8276	8245
65°	8013	7673	7846	8135
70°	7503	7476	7305	7988
75°	6772	7260	6548	7834
80°	5772	7057	5448	7630
85°	4486	7038	3994	7650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	2.8
10°-20°	703.4	8.0
20°-30°	1063.9	12.0
30°-40°	1286.0	14.6
40°-50°	1353.4	15.3
50°-60°	1271.4	14.4
60°-70°	1060.4	12.0
70°-80°	756.3	8.6
80°-90°	442.9	5.0
90°-100°	275.6	3.1
100°-110°	181.2	2.1
110°-120°	106.4	1.2
120°-130°	54.2	0.6
130°-140°	20.7	0.2
140°-150°	6.5	0.1
150°-160°	3.7	0.0
160°-170°	2.4	0.0
170°-180°	0.9	0.0
0°-30°	2013.3	22.8
0°-40°	3299.3	37.3
0°-60°	5924.2	67.1
0°-90°	8183.7	92.6
90°-120°	563.2	6.4
90°-150°	644.7	7.3
90°-180°	652.0	7.4
0°-180°	8835.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2601	2601	2601	2601	2601	
5°	2588	2583	2587	2591	2588	246
15°	2481	2499	2479	2512	2481	699
25°	2270	2333	2263	2361	2270	1045
35°	1980	2108	1972	2145	1980	1239
45°	1634	1847	1623	1896	1634	1261
55°	1254	1552	1246	1618	1254	1122
65°	858	1234	840	1308	858	848
75°	451	900	436	971	451	478
85°	108	586	96	637	108	120
90°	32	486	24	521	32	20
95°	28	418	22	450	28	22
105°	23	299	19	332	23	25
115°	19	198	16	222	19	19
125°	14	115	12	133	14	13
135°	11	51	8	63	11	9
145°	8	8	7	14	8	5
155°	7	7	7	10	7	3
165°	8	7	10	9	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°	2601.1	2601.1	2601.1	2601.1	2601.1	2601.1	2601.1	2601.1	2601.1	2601.1	2601.1
1°	2601.3	2597.5	2603.3	2597.9	2597.7	2603.3	2600.5	2597.3	2601.1	2600.1	2602.1
2°	2598.9	2597.7	2601.9	2595.1	2592.9	2597.5	2597.5	2595.1	2601.1	2596.9	2602.3
3°	2597.7	2599.9	2599.3	2594.5	2591.3	2600.5	2596.9	2594.3	2597.1	2596.1	2601.3
4°	2592.7	2595.9	2594.7	2589.3	2587.1	2591.3	2585.3	2587.3	2591.5	2590.5	2593.3
5°	2587.5	2592.7	2586.1	2584.9	2583.1	2585.5	2584.1	2581.5	2586.9	2586.5	2590.1
6°	2581.9	2584.5	2581.7	2581.5	2580.3	2582.3	2578.1	2575.1	2580.3	2581.9	2589.5
7°	2572.7	2575.5	2581.3	2575.9	2574.5	2574.3	2573.7	2566.3	2574.1	2577.1	2578.1
8°	2563.9	2568.9	2570.5	2567.3	2568.7	2567.7	2566.1	2558.5	2561.5	2567.5	2572.5
9°	2555.7	2560.1	2560.7	2556.9	2561.5	2561.5	2553.1	2551.7	2551.9	2558.5	2565.1
10°	2544.9	2546.7	2548.5	2550.5	2554.1	2554.5	2542.7	2543.9	2542.3	2549.7	2558.7
11°	2532.3	2537.9	2542.3	2540.5	2544.7	2540.5	2533.9	2530.9	2531.1	2537.9	2551.3
12°	2517.9	2520.5	2527.7	2528.3	2535.9	2529.7	2521.1	2518.7	2518.7	2524.7	2534.3
13°	2510.1	2510.1	2514.9	2516.3	2525.3	2520.9	2505.1	2502.3	2506.3	2507.5	2521.3
14°	2494.7	2497.3	2500.3	2505.1	2510.5	2506.5	2495.3	2489.1	2493.1	2494.1	2509.9
15°	2481.3	2479.7	2488.1	2492.1	2499.1	2491.5	2483.5	2475.1	2479.3	2482.1	2494.9
16°	2462.1	2465.9	2474.9	2476.9	2486.3	2478.3	2466.1	2453.1	2460.3	2465.5	2483.5
17°	2443.9	2447.5	2454.1	2462.1	2470.9	2466.1	2454.5	2438.3	2439.1	2449.7	2466.1
18°	2426.1	2432.7	2437.1	2444.5	2456.1	2451.1	2436.1	2419.9	2420.9	2430.9	2451.1
19°	2405.5	2411.1	2421.5	2433.3	2442.1	2434.3	2417.5	2396.7	2403.7	2411.7	2434.5
20°	2385.3	2389.7	2403.9	2415.3	2425.5	2417.3	2399.5	2379.5	2382.1	2389.1	2416.7
21°	2363.7	2365.5	2381.7	2395.9	2409.5	2397.7	2379.3	2358.7	2360.7	2369.5	2397.3
22°	2340.1	2345.3	2363.1	2380.1	2391.9	2381.7	2359.7	2339.3	2337.5	2350.1	2378.3
23°	2316.7	2322.9	2340.1	2358.5	2370.5	2361.9	2340.3	2317.1	2312.9	2326.9	2358.3
24°	2293.7	2302.5	2317.7	2338.5	2350.1	2339.7	2320.7	2292.7	2288.3	2302.9	2337.3
25°	2270.3	2278.3	2296.5	2321.5	2332.9	2319.5	2295.5	2267.7	2262.9	2280.3	2315.3
26°	2245.5	2251.9	2273.5	2298.5	2313.7	2300.7	2271.7	2243.5	2235.1	2255.1	2295.3
27°	2219.3	2225.9	2252.5	2276.1	2290.9	2281.9	2249.3	2214.7	2207.9	2227.1	2271.7
28°	2190.1	2201.7	2228.1	2253.7	2270.9	2258.5	2226.3	2188.7	2181.5	2201.3	2247.7
29°	2161.5	2175.5	2203.9	2234.1	2250.9	2235.3	2200.3	2162.1	2152.1	2175.7	2223.5
30°	2132.7	2143.3	2178.9	2211.1	2229.1	2211.1	2176.1	2135.5	2124.5	2146.5	2199.3
31°	2103.1	2116.3	2154.3	2188.3	2202.7	2188.7	2151.7	2104.3	2096.3	2118.3	2172.5
32°	2074.3	2087.7	2127.5	2162.5	2179.9	2165.3	2124.1	2075.1	2065.5	2090.9	2146.7
33°	2045.1	2058.5	2100.1	2137.7	2157.9	2136.9	2095.5	2048.9	2033.3	2060.7	2121.3
34°	2012.5	2027.3	2070.1	2113.9	2132.3	2112.7	2068.1	2014.9	2002.9	2031.7	2094.1
35°	1979.7	1997.6	2041.1	2088.5	2107.5	2086.1	2040.1	1983.3	1971.5	2000.7	2067.1
36°	1947.8	1968.6	2012.1	2062.1	2086.7	2063.1	2010.3	1953.2	1938.1	1969.9	2037.5
37°	1916.9	1939.2	1983.5	2035.9	2061.7	2035.5	1979.9	1923.9	1905.7	1939.0	2010.9
38°	1885.1	1903.3	1955.3	2009.1	2032.1	2007.5	1953.4	1886.8	1870.4	1908.2	1977.9
39°	1848.7	1872.3	1925.6	1981.8	2007.9	1982.7	1924.4	1852.3	1835.7	1877.5	1950.4
40°	1815.2	1839.6	1895.0	1957.4	1982.8	1955.5	1893.9	1820.9	1800.0	1845.6	1919.0
41°	1777.9	1805.8	1866.1	1930.7	1954.5	1928.0	1860.5	1788.5	1766.4	1813.6	1889.5
42°	1743.0	1770.6	1832.1	1901.3	1929.6	1899.4	1827.7	1753.8	1731.1	1778.3	1861.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1634.5	1668.1	1740.5	1818.6	1846.9	1812.9	1730.8	1646.7	1622.7	1676.6	1765.5
46°	1598.2	1631.5	1705.6	1788.8	1818.4	1784.0	1699.6	1611.6	1584.2	1641.6	1735.9
47°	1562.0	1595.9	1672.2	1760.2	1790.2	1754.0	1663.7	1575.6	1550.2	1604.2	1703.0
48°	1525.0	1559.7	1642.0	1730.4	1763.2	1726.3	1630.3	1538.5	1511.8	1569.2	1675.8
49°	1487.3	1524.2	1607.6	1701.1	1734.7	1695.0	1596.3	1500.5	1475.1	1531.5	1639.3
50°	1448.4	1486.3	1573.7	1669.4	1704.6	1664.0	1564.7	1465.0	1435.8	1495.5	1606.2
51°	1410.5	1446.8	1543.3	1637.4	1674.9	1635.0	1531.5	1428.1	1397.3	1458.4	1576.9
52°	1371.2	1412.8	1509.7	1608.6	1643.5	1602.0	1495.6	1389.8	1359.8	1424.8	1543.2
53°	1332.3	1375.8	1476.0	1579.8	1614.4	1571.7	1464.1	1353.0	1320.4	1386.8	1511.0
54°	1293.3	1339.0	1442.1	1547.0	1583.0	1540.1	1428.1	1315.1	1282.0	1349.9	1479.1
55°	1254.5	1301.4	1407.7	1513.0	1552.3	1510.1	1394.4	1277.6	1245.6	1312.5	1446.1
56°	1218.2	1262.9	1374.0	1481.3	1518.6	1475.2	1359.5	1240.9	1203.6	1275.8	1411.4
57°	1178.0	1225.0	1338.0	1452.1	1489.3	1445.3	1325.3	1202.7	1164.2	1239.4	1378.3
58°	1138.5	1187.7	1304.0	1417.2	1458.9	1412.6	1290.0	1165.7	1123.5	1199.5	1345.8
59°	1099.0	1148.4	1270.0	1386.2	1429.8	1380.3	1256.2	1126.6	1083.7	1163.4	1310.6
60°	1059.1	1108.8	1234.8	1354.1	1397.6	1345.5	1220.6	1085.9	1043.6	1127.2	1277.2
61°	1018.4	1070.5	1201.1	1319.7	1364.3	1314.1	1188.1	1048.7	1003.2	1088.9	1242.8
62°	979.8	1032.7	1167.6	1288.3	1333.8	1282.0	1152.9	1009.5	964.1	1050.5	1208.3
63°	938.9	995.2	1129.9	1251.8	1300.8	1246.2	1115.3	972.2	922.0	1015.3	1175.0
64°	897.4	957.7	1095.3	1220.0	1269.3	1214.6	1080.5	934.3	879.9	977.3	1140.5
65°	857.7	918.7	1061.1	1188.5	1234.1	1178.5	1046.2	896.5	839.8	939.0	1105.8
66°	816.8	882.1	1027.2	1155.5	1202.4	1147.1	1012.0	857.0	800.2	902.6	1074.0
67°	776.6	843.8	990.4	1123.6	1168.7	1113.1	975.7	820.9	760.4	865.8	1041.0
68°	735.5	806.6	955.0	1087.1	1137.2	1078.8	940.8	783.4	719.0	827.9	1006.3
69°	695.3	769.1	921.7	1053.7	1102.1	1045.1	905.7	746.2	679.3	790.5	971.7
70°	653.9	731.9	887.2	1017.8	1068.5	1010.7	869.7	709.1	636.7	754.8	937.6
71°	611.8	695.4	851.9	985.0	1035.5	976.2	834.4	671.6	595.7	717.7	902.1
72°	571.5	657.9	819.7	951.1	1001.5	942.9	799.7	635.1	556.7	680.9	869.4
73°	530.7	620.8	784.8	913.3	966.7	909.4	765.4	597.1	516.7	644.2	833.8
74°	491.3	585.5	750.2	878.2	932.3	876.1	731.1	564.2	475.8	608.5	800.6
75°	451.1	549.2	715.4	843.4	899.8	843.2	696.7	526.4	436.2	571.8	764.7
76°	412.4	514.4	682.3	812.0	864.1	807.2	662.6	490.3	397.4	537.3	731.2
77°	373.7	480.7	648.7	780.6	832.3	777.0	630.6	456.0	358.7	502.1	697.6
78°	335.6	446.9	614.9	747.4	797.8	739.7	594.7	423.0	320.7	467.8	663.1
79°	298.5	413.9	581.9	714.7	767.3	711.5	565.1	390.3	283.7	434.5	630.1
80°	263.0	381.8	550.7	680.9	734.0	676.7	532.1	358.2	248.2	401.0	597.0
81°	228.1	351.3	519.0	650.8	702.2	647.8	503.1	327.9	214.0	370.4	566.9
82°	195.2	321.4	488.8	619.1	670.3	617.1	472.3	297.9	180.5	337.9	535.3
83°	163.9	292.9	459.8	589.5	640.8	588.3	444.1	270.1	148.9	309.8	506.3
84°	134.9	265.1	432.6	560.2	614.6	558.8	417.3	244.1	120.6	281.6	478.6
85°	108.4	239.5	407.3	534.2	586.2	533.6	393.1	220.3	96.5	255.2	452.6
86°	84.4	215.1	382.5	508.8	562.2	509.5	369.6	198.0	74.4	231.8	428.3
87°	63.4	193.9	358.4	483.8	537.5	486.4	347.4	177.8	54.6	211.0	404.6



TEST NUMBER: P861208

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	32.2	150.7	311.2	432.3	485.9	436.2	301.4	135.6	24.4	162.9	349.7
91°	30.7	142.7	300.5	418.6	470.2	420.8	288.7	127.2	23.4	153.3	336.4
92°	30.0	134.5	289.5	406.2	458.3	409.9	281.0	120.1	23.0	144.9	324.6
93°	29.2	127.0	279.1	394.8	442.9	395.6	270.3	112.3	22.5	136.3	312.4
94°	28.5	119.9	268.8	382.4	430.8	384.6	259.9	106.0	22.5	127.7	301.2
95°	27.8	113.0	259.0	371.4	418.2	371.3	249.8	99.2	22.0	119.5	288.8
96°	27.5	105.7	249.4	359.9	404.4	360.5	241.1	93.2	20.5	112.4	278.0
97°	26.6	99.9	239.9	347.9	393.0	346.9	230.3	87.5	20.3	105.1	266.6
98°	26.1	94.1	230.0	337.7	379.3	336.9	221.7	82.0	19.8	98.5	256.4
99°	25.6	88.4	221.2	327.6	367.8	326.2	212.5	77.1	19.6	92.0	246.0
100°	25.1	83.3	211.7	316.4	355.1	315.6	203.2	72.4	18.9	85.9	235.2
101°	24.9	78.8	203.3	305.7	344.3	304.2	194.6	67.2	18.8	80.0	226.1
102°	24.9	74.3	194.7	293.9	331.1	293.4	186.5	63.0	18.8	75.4	215.1
103°	24.4	69.7	186.2	283.9	322.2	282.5	179.5	58.6	18.8	70.4	206.5
104°	23.9	65.4	178.1	273.1	308.8	271.1	171.1	54.2	18.8	65.6	197.7
105°	23.4	61.3	170.4	262.7	299.4	261.6	163.4	50.4	18.7	61.0	188.5
106°	23.0	56.9	162.7	252.2	287.2	250.9	155.4	46.7	18.7	56.6	180.2
107°	22.2	53.5	155.3	243.1	277.6	242.3	148.2	43.1	18.6	52.4	171.3
108°	21.8	49.9	147.5	232.9	265.8	231.9	140.4	39.8	18.4	48.1	163.0
109°	21.5	46.0	140.7	223.3	256.8	224.0	133.5	36.4	18.1	44.4	156.0
110°	21.3	42.6	133.7	214.2	244.9	214.2	126.2	33.2	17.4	40.4	147.0
111°	20.8	39.2	127.0	205.2	236.4	205.2	119.9	30.6	17.2	37.0	140.3
112°	20.1	36.3	120.3	196.8	225.6	195.8	113.3	27.2	17.2	33.8	132.1
113°	19.8	33.1	113.9	187.6	216.6	186.6	107.0	24.6	16.7	30.0	124.9
114°	19.6	30.8	107.9	178.8	207.0	177.0	100.9	22.0	16.4	27.3	118.6
115°	19.1	28.1	101.6	170.2	198.4	169.3	94.9	20.3	16.0	24.2	111.5
116°	18.6	25.7	95.9	162.4	188.7	159.8	88.7	18.8	15.5	22.0	104.8
117°	18.1	23.5	90.2	154.0	179.5	152.6	83.5	16.4	15.7	19.4	98.8
118°	17.9	22.0	84.7	146.3	171.3	144.3	78.5	15.7	15.4	17.4	92.2
119°	17.4	20.6	79.8	138.8	163.0	136.8	73.1	14.7	15.0	15.5	86.3
120°	17.2	19.8	74.4	131.2	155.4	129.2	68.0	14.7	14.7	14.8	80.0
121°	16.9	19.1	69.4	124.6	145.8	122.1	62.6	14.9	14.4	14.5	74.7
122°	16.4	18.9	64.4	117.1	139.3	115.1	57.9	14.5	14.0	14.5	69.9
123°	15.9	18.4	59.7	110.3	130.4	108.2	53.2	14.5	13.5	14.0	63.8
124°	15.2	17.9	54.8	103.6	123.5	101.0	48.2	13.3	12.6	13.8	58.8
125°	14.5	17.9	50.0	96.9	114.8	94.7	43.7	13.0	12.3	13.4	54.2
126°	14.3	17.4	45.6	90.5	108.8	87.8	39.2	12.5	12.1	13.0	48.6
127°	13.8	16.9	41.1	84.4	100.6	81.6	34.9	12.0	11.4	12.6	43.7
128°	13.5	16.5	36.9	78.9	94.9	76.0	31.5	11.6	11.0	12.3	39.0
129°	13.1	16.0	33.1	72.7	87.0	69.8	27.0	11.3	10.6	11.9	34.6
130°	12.8	15.6	29.4	66.8	81.7	64.1	23.9	11.1	10.2	11.6	30.4
131°	12.3	15.1	25.7	61.3	74.6	58.4	20.2	10.8	9.8	11.2	26.0
132°	12.1	14.7	22.3	55.6	69.6	52.6	17.1	10.6	9.4	11.0	23.3



TEST NUMBER: P861208

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	11.4	13.5	14.8	40.5	51.1	37.6	10.7	9.9	8.2	10.4	12.4
136°	11.1	13.1	13.8	35.8	45.9	32.9	10.0	9.2	8.1	10.1	11.2
137°	10.6	13.1	13.1	31.3	40.1	28.3	9.5	8.9	8.0	9.2	11.2
138°	10.4	12.4	13.1	27.3	35.6	24.1	9.0	8.4	8.0	8.7	9.5
139°	10.2	12.3	12.6	23.1	30.1	20.1	8.3	8.0	7.9	8.5	8.8
140°	9.9	11.9	12.2	19.4	26.1	16.5	8.0	7.7	7.9	8.0	8.8
141°	9.7	11.1	12.2	16.0	21.2	13.1	7.8	7.2	7.8	7.7	8.5
142°	9.4	10.9	11.7	13.6	17.1	10.8	7.3	7.0	7.7	7.5	8.4
143°	9.1	10.4	11.4	12.2	13.2	9.1	7.2	7.2	7.5	7.7	8.2
144°	8.8	10.4	10.9	11.9	10.7	8.6	7.1	7.0	6.8	7.5	8.1
145°	8.5	10.4	10.4	11.4	8.3	8.1	7.0	7.2	6.7	7.5	7.9
146°	8.2	9.9	10.2	11.2	7.8	7.8	6.9	6.7	6.6	7.5	7.8
147°	8.1	9.2	10.0	11.0	7.7	7.7	6.8	6.7	6.5	7.5	7.8
148°	7.9	9.2	9.7	10.8	7.6	7.6	6.8	6.7	6.5	7.5	8.0
149°	7.8	8.7	9.2	10.6	7.5	7.5	6.3	6.7	6.6	7.5	7.8
150°	7.6	8.7	9.5	10.5	7.4	7.4	6.1	6.7	6.6	7.5	7.8
151°	7.5	8.5	9.3	10.0	7.3	7.2	6.1	6.7	6.6	7.5	7.7
152°	7.5	8.0	9.1	10.0	7.1	7.1	6.2	6.7	6.7	7.5	7.6
153°	7.3	8.0	8.9	9.5	7.1	7.0	6.2	6.7	6.7	7.5	7.5
154°	7.3	8.1	8.7	9.2	7.0	6.9	6.3	6.7	6.8	7.5	7.4
155°	7.3	8.1	8.5	9.2	7.0	6.8	6.4	6.7	6.8	7.5	7.3
156°	7.3	8.1	8.5	9.0	7.0	6.8	6.5	6.7	6.8	7.5	7.2
157°	7.3	8.2	8.5	8.9	6.9	6.8	6.5	6.7	6.9	7.5	7.1
158°	7.3	8.2	8.5	8.8	6.9	6.8	6.6	6.7	6.9	7.5	7.0
159°	7.3	8.5	8.5	8.8	6.8	6.9	6.7	6.7	6.9	7.5	6.9
160°	7.3	8.5	8.5	8.7	6.8	6.9	6.7	6.7	7.0	7.5	6.8
161°	7.4	8.5	8.5	8.6	6.8	6.9	6.8	7.0	7.0	8.0	7.8
162°	7.5	8.5	8.5	8.5	6.7	7.0	6.9	7.7	7.7	8.2	8.7
163°	7.5	8.6	8.5	8.5	6.7	7.0	7.0	7.9	8.7	8.9	9.0
164°	7.6	8.6	8.5	8.0	6.7	7.0	7.1	8.2	9.2	9.2	9.5
165°	7.7	8.6	8.5	8.0	6.6	7.0	7.2	8.4	9.7	9.2	9.7
166°	7.8	8.6	8.5	8.0	6.6	7.1	7.3	8.9	9.9	9.4	9.7
167°	8.0	8.6	8.5	7.9	6.6	7.1	7.4	9.2	10.4	9.5	10.4
168°	8.2	8.7	8.5	7.8	6.5	7.1	7.5	9.1	11.1	9.5	10.9
169°	8.4	8.7	8.5	7.8	6.5	7.2	7.6	9.1	11.1	9.5	10.9
170°	8.5	8.7	8.5	7.7	6.4	7.2	7.8	9.1	11.1	9.5	11.2
171°	8.7	9.2	8.5	7.7	6.5	7.2	7.8	9.1	11.0	9.5	11.2
172°	8.9	9.9	8.5	7.7	6.6	7.3	7.9	9.0	11.0	9.6	11.7
173°	9.2	10.4	8.5	7.7	6.7	7.3	8.0	9.0	11.0	9.6	12.4
174°	9.4	11.6	8.5	7.7	6.8	7.3	8.1	9.0	11.0	9.6	12.2
175°	9.7	11.4	8.5	7.8	6.9	7.3	8.2	9.0	10.9	9.6	12.2
176°	9.9	11.6	8.5	7.8	6.9	7.6	8.3	8.9	10.9	9.7	11.9
177°	9.7	11.9	8.5	7.8	6.9	7.8	8.3	8.9	10.9	9.7	12.2



TEST NUMBER: P861208

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7



TEST NUMBER: P861208

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2601.1	2601.1	2601.1	2601.1	2601.1	2601.1
1°	2598.9	2600.5	2604.3	2602.7	2601.1	2601.3
2°	2599.1	2600.1	2603.5	2602.5	2601.3	2598.9
3°	2596.1	2600.5	2603.9	2602.7	2599.9	2597.7
4°	2594.3	2599.9	2601.7	2596.7	2593.9	2592.7
5°	2590.9	2590.7	2601.7	2595.5	2590.7	2587.5
6°	2585.9	2588.3	2595.9	2592.3	2587.5	2581.9
7°	2583.3	2585.3	2589.5	2584.3	2579.1	2572.7
8°	2574.1	2579.7	2587.1	2581.1	2570.9	2563.9
9°	2568.5	2572.7	2578.3	2573.3	2562.1	2555.7
10°	2563.1	2560.5	2570.3	2568.9	2551.9	2544.9
11°	2554.5	2553.3	2560.3	2560.5	2541.1	2532.3
12°	2544.7	2547.7	2551.1	2549.3	2531.3	2517.9
13°	2533.9	2536.5	2542.7	2539.9	2516.5	2510.1
14°	2524.1	2527.9	2530.5	2530.3	2502.5	2494.7
15°	2512.1	2512.3	2521.1	2515.3	2489.3	2481.3
16°	2497.7	2499.7	2508.9	2497.9	2474.1	2462.1
17°	2485.3	2487.3	2494.9	2482.5	2458.7	2443.9
18°	2470.5	2473.9	2481.1	2465.9	2439.5	2426.1
19°	2453.3	2461.9	2466.9	2449.7	2418.3	2405.5
20°	2439.7	2447.9	2449.9	2433.9	2397.1	2385.3
21°	2419.9	2429.7	2435.5	2417.9	2377.9	2363.7
22°	2401.1	2415.5	2416.3	2398.1	2355.7	2340.1
23°	2381.9	2396.5	2402.3	2380.1	2333.1	2316.7
24°	2365.1	2380.7	2381.3	2357.7	2310.5	2293.7
25°	2341.1	2361.3	2359.5	2335.7	2286.9	2270.3
26°	2322.7	2342.1	2340.5	2314.9	2263.1	2245.5
27°	2304.1	2322.1	2323.1	2290.5	2239.5	2219.3
28°	2284.7	2305.1	2300.7	2266.7	2210.5	2190.1
29°	2266.5	2280.9	2277.9	2242.9	2183.3	2161.5
30°	2243.3	2258.9	2254.9	2218.7	2157.1	2132.7
31°	2220.3	2239.1	2234.3	2192.9	2128.5	2103.1
32°	2197.7	2216.1	2212.7	2168.1	2096.1	2074.3
33°	2173.3	2191.7	2189.9	2142.5	2071.5	2045.1
34°	2149.7	2168.7	2166.7	2114.1	2041.9	2012.5
35°	2123.5	2145.3	2141.5	2085.5	2008.3	1979.7
36°	2098.9	2122.1	2115.7	2058.7	1980.4	1947.8
37°	2071.5	2099.1	2089.9	2025.7	1948.0	1916.9
38°	2046.7	2078.3	2063.3	1998.7	1916.0	1885.1
39°	2021.7	2054.3	2038.9	1968.6	1885.6	1848.7
40°	1997.0	2028.3	2011.5	1937.9	1853.5	1815.2
41°	1969.2	2002.1	1984.2	1906.8	1819.0	1777.9
42°	1943.8	1976.0	1958.6	1876.2	1786.1	1743.0



TEST NUMBER: P861208

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1860.2	1895.9	1875.6	1780.4	1684.0	1634.5
46°	1828.6	1866.6	1847.5	1749.1	1648.2	1598.2
47°	1801.1	1842.1	1818.5	1717.7	1611.7	1562.0
48°	1773.5	1813.9	1788.6	1682.8	1576.3	1525.0
49°	1747.2	1782.8	1756.8	1650.4	1541.2	1487.3
50°	1715.0	1757.8	1728.5	1618.4	1504.3	1448.4
51°	1688.9	1728.0	1697.1	1587.4	1467.9	1410.5
52°	1657.5	1703.9	1665.6	1554.0	1430.4	1371.2
53°	1627.3	1674.9	1636.9	1519.1	1393.5	1332.3
54°	1596.6	1645.1	1607.4	1485.9	1358.6	1293.3
55°	1568.0	1618.5	1576.5	1454.7	1319.7	1254.5
56°	1535.4	1586.4	1542.6	1418.7	1284.2	1218.2
57°	1504.6	1555.5	1510.5	1384.3	1247.1	1178.0
58°	1474.0	1527.7	1478.2	1349.6	1209.6	1138.5
59°	1443.1	1493.9	1445.8	1317.9	1173.3	1099.0
60°	1411.4	1463.5	1414.5	1282.3	1135.3	1059.1
61°	1376.3	1431.1	1380.5	1248.4	1095.8	1018.4
62°	1345.5	1399.8	1350.5	1214.7	1059.2	979.8
63°	1315.5	1369.7	1317.9	1181.5	1020.1	938.9
64°	1283.0	1338.9	1287.5	1145.1	982.3	897.4
65°	1247.0	1308.4	1253.2	1111.4	944.7	857.7
66°	1216.1	1273.7	1218.3	1076.4	907.1	816.8
67°	1181.8	1241.6	1186.6	1042.3	868.3	776.6
68°	1149.9	1209.4	1150.0	1007.9	829.8	735.5
69°	1115.0	1176.0	1118.6	972.9	792.8	695.3
70°	1081.0	1141.8	1086.1	937.2	757.2	653.9
71°	1045.9	1109.6	1051.4	901.4	718.9	611.8
72°	1014.1	1078.1	1018.4	866.8	682.5	571.5
73°	978.5	1041.9	982.7	831.5	645.3	530.7
74°	946.0	1009.3	951.6	798.0	608.3	491.3
75°	912.9	971.0	916.1	763.1	573.2	451.1
76°	879.7	937.1	883.9	729.6	538.5	412.4
77°	848.2	899.1	850.4	696.2	503.0	373.7
78°	814.3	863.7	816.9	662.5	468.0	335.6
79°	782.8	829.0	784.4	629.6	434.9	298.5
80°	748.8	793.6	751.6	597.9	401.8	263.0
81°	717.0	761.0	719.6	566.9	369.9	228.1
82°	684.9	727.0	686.3	536.8	339.4	195.2
83°	657.0	696.4	656.2	507.6	309.7	163.9
84°	627.3	666.1	626.1	478.8	282.0	134.9
85°	599.2	637.2	596.2	452.4	255.5	108.4
86°	574.9	608.4	570.5	426.8	231.1	84.4
87°	551.1	583.3	544.5	401.8	206.7	63.4



TEST NUMBER: P861208

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	491.7	520.8	482.0	344.1	159.0	32.2
91°	474.3	506.3	466.9	331.4	149.2	30.7
92°	461.8	490.9	453.7	318.9	141.0	30.0
93°	446.6	477.5	439.0	307.8	132.4	29.2
94°	433.3	463.3	426.0	295.7	124.8	28.5
95°	418.6	450.5	412.7	284.2	117.4	27.8
96°	405.5	437.3	398.8	274.1	110.2	27.5
97°	391.3	424.8	386.2	263.2	103.0	26.6
98°	379.0	412.6	374.0	253.5	96.3	26.1
99°	365.1	399.6	361.6	243.6	90.6	25.6
100°	354.1	387.3	350.5	233.2	84.8	25.1
101°	340.1	375.8	338.1	222.9	80.3	24.9
102°	328.7	364.3	326.4	213.7	75.3	24.9
103°	316.4	352.4	314.6	204.5	70.3	24.4
104°	305.5	342.0	302.8	195.8	65.8	23.9
105°	293.5	331.9	291.7	187.1	61.7	23.4
106°	282.3	320.8	280.9	178.3	57.1	23.0
107°	270.9	309.8	271.0	169.9	53.0	22.2
108°	259.5	298.5	260.8	161.4	49.4	21.8
109°	249.6	286.4	250.9	153.7	45.8	21.5
110°	240.1	275.5	240.5	146.0	42.4	21.3
111°	228.2	264.0	229.9	138.3	38.8	20.8
112°	218.9	253.0	219.7	131.1	36.1	20.1
113°	209.3	242.6	210.0	124.3	33.2	19.8
114°	200.0	232.7	200.9	117.3	30.4	19.6
115°	190.9	222.3	191.0	110.7	27.9	19.1
116°	181.7	212.4	182.1	104.3	25.5	18.6
117°	172.9	203.3	173.0	98.2	23.4	18.1
118°	164.3	193.6	165.2	92.4	22.2	17.9
119°	155.4	184.4	156.5	86.6	21.2	17.4
120°	147.5	175.0	148.3	81.6	21.0	17.2
121°	138.9	166.6	140.5	76.0	20.2	16.9
122°	131.6	158.2	132.3	70.6	19.8	16.4
123°	123.6	149.5	125.0	65.3	19.8	15.9
124°	115.7	140.9	117.1	60.0	19.5	15.2
125°	109.3	133.3	110.6	55.3	18.8	14.5
126°	101.5	124.7	103.2	50.3	18.6	14.3
127°	94.8	117.8	96.0	45.6	18.3	13.8
128°	88.1	109.8	89.5	41.2	17.6	13.5
129°	81.0	102.8	82.5	36.9	17.3	13.1
130°	75.3	95.6	76.8	32.6	17.1	12.8
131°	69.1	88.4	70.3	28.8	16.4	12.3
132°	62.6	81.9	64.3	25.3	15.9	12.1



TEST NUMBER: P861208

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	45.6	62.8	47.4	16.8	14.7	11.4
136°	40.3	56.8	41.9	15.6	14.2	11.1
137°	34.6	51.1	37.2	14.9	13.5	10.6
138°	30.0	45.5	32.1	14.4	13.3	10.4
139°	25.1	40.0	27.9	14.0	12.8	10.2
140°	20.7	34.8	23.4	13.6	12.3	9.9
141°	16.6	30.0	19.6	13.2	12.0	9.7
142°	12.5	25.5	16.1	12.8	11.8	9.4
143°	10.3	21.2	14.2	12.4	11.6	9.1
144°	9.2	17.2	13.5	12.2	10.6	8.8
145°	8.5	14.2	13.0	11.9	10.8	8.5
146°	8.3	12.8	12.7	11.2	10.5	8.2
147°	8.0	12.5	12.5	11.0	10.3	8.1
148°	7.8	12.0	12.0	10.7	10.0	7.9
149°	7.3	11.8	11.8	10.2	9.7	7.8
150°	7.5	11.3	11.8	10.0	9.4	7.6
151°	7.3	11.0	11.3	10.0	9.2	7.5
152°	7.1	10.8	10.8	9.7	9.0	7.5
153°	7.1	10.5	10.8	9.7	8.8	7.3
154°	7.1	10.3	10.6	9.7	8.8	7.3
155°	7.1	10.0	10.5	9.7	8.9	7.3
156°	7.1	9.6	10.3	9.6	8.9	7.3
157°	7.2	9.6	10.2	9.6	8.9	7.3
158°	7.2	9.3	10.0	9.6	8.9	7.3
159°	7.2	9.5	9.8	9.5	9.0	7.3
160°	7.2	9.1	9.6	9.5	9.0	7.3
161°	7.3	9.3	9.3	9.5	9.0	7.4
162°	7.3	9.1	9.6	9.5	9.0	7.5
163°	7.8	9.1	9.5	9.4	9.1	7.5
164°	7.5	8.8	9.4	9.4	9.1	7.6
165°	7.8	8.6	9.3	9.4	9.1	7.7
166°	8.0	8.3	9.2	9.3	9.1	7.8
167°	8.5	8.3	9.1	9.3	9.2	8.0
168°	8.8	8.6	9.1	9.3	9.4	8.2
169°	8.7	8.1	8.8	9.3	9.9	8.4
170°	8.7	7.8	8.6	9.2	9.9	8.5
171°	8.7	7.8	8.5	9.2	10.1	8.7
172°	8.6	8.1	8.5	9.2	10.6	8.9
173°	8.6	7.6	8.4	9.1	10.6	9.2
174°	8.6	7.6	8.4	9.1	10.6	9.4
175°	8.6	7.4	8.3	9.1	10.8	9.7
176°	8.5	7.3	8.3	9.1	10.8	9.9
177°	8.5	7.3	8.3	9.0	10.8	9.7



TEST NUMBER: P861208

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	9.7	9.7	9.7	9.7	9.7	9.7



Report Generated By 670246072 / DESKTOP-50001EG





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







43°	1706.0	1736.3	1803.2	1874.3	1898.0	1871.2	1796.5	1719.3	1696.1	1743.1	1828.9
44°	1670.1	1702.8	1770.0	1845.1	1873.5	1842.2	1765.5	1681.8	1659.4	1712.8	1796.9



88°	47.6	176.2	338.9	463.8	519.7	468.7	330.1	159.7	39.3	192.9	382.7
89°	36.9	161.3	324.7	446.2	499.1	448.9	313.8	145.6	29.0	176.1	364.0



133°	11.8	14.3	19.2	50.3	62.8	47.6	14.6	10.4	8.9	10.8	18.7
134°	11.4	13.8	16.5	45.5	57.5	42.1	11.8	10.1	8.2	10.6	15.1



178°	9.7	11.9	8.5	7.8	7.1	7.6	8.3	8.9	10.9	9.7	11.9
179°	9.7	11.9	8.5	7.8	7.3	7.6	8.3	8.9	10.9	9.7	11.9





43°	1914.4	1949.0	<i>1930.8</i>	1843.6	1752.4	1706.0
44°	1889.3	1923.2	<i>1902.3</i>	1813.2	1718.5	1670.1



88°	529.1	559.4	520.7	378.8	188.5	47.6
89°	508.2	539.7	501.3	361.1	171.7	36.9



133°	57.2	75.5	58.2	21.9	15.4	11.8
134°	50.8	69.0	52.7	18.8	15.2	11.4



178°	8.5	7.3	8.3	9.0	10.8	9.7
179°	8.5	7.3	8.3	9.0	10.8	9.7



(END OF REPORT)