

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: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-31SL-RM-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

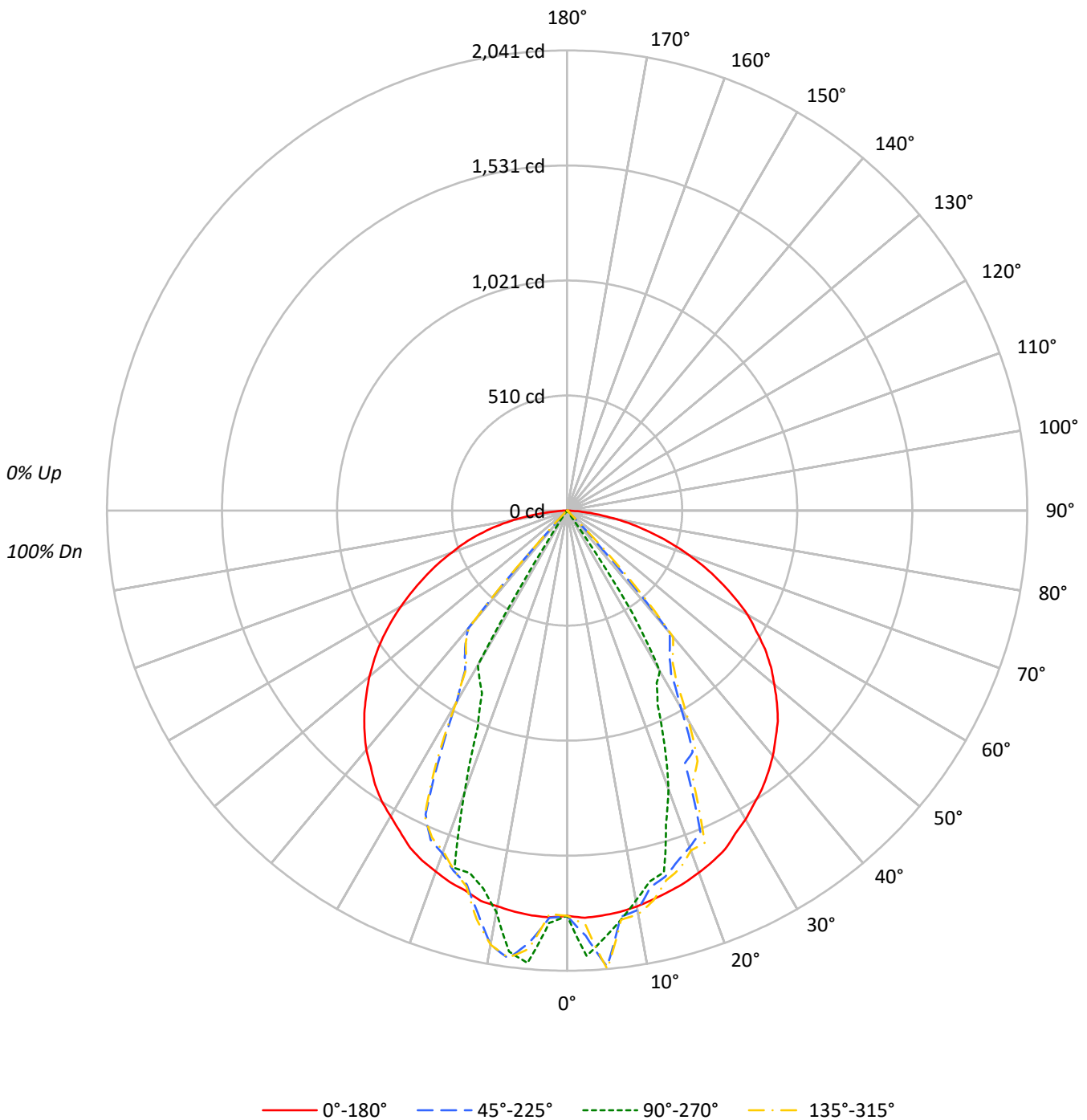
Lumens per Lamp: N/A
Luminaire Lumens: 2556.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
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					
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14526	14526	14526	14526
5°	14586	14940	14581	15821
10°	14551	13519	14542	13909
15°	14511	12619	14475	12651
20°	14528	9939	14486	10061
25°	14569	7193	14499	6788
30°	14503	6309	14350	6065
35°	14546	139	14333	169
40°	14596	30	14246	30
45°	14647	18	14097	13
50°	14536	14	13869	14
55°	14450	10	13562	10
60°	14178	11	13069	11
65°	13438	17	12482	12
70°	12466	19	11867	19
75°	11028	21	11207	21
80°	8958	24	9468	24
85°	5267	28	5383	28



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	7.1
10°-20°	491.9	19.2
20°-30°	626.0	24.5
30°-40°	528.8	20.7
40°-50°	345.7	13.5
50°-60°	217.8	8.5
60°-70°	116.0	4.5
70°-80°	42.3	1.7
80°-90°	7.3	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1298.2	50.8
0°-40°	1827.0	71.5
0°-60°	2390.5	93.5
0°-90°	2556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2556.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1798	1798	1798	1798	1798	
5°	1803	1902	1802	2014	1803	171
15°	1749	1660	1745	1664	1749	494
25°	1658	948	1650	894	1658	762
35°	1507	18	1485	22	1507	943
45°	1322	2	1272	2	1322	1016
55°	1071	1	1006	1	1071	955
65°	750	2	696	1	750	743
75°	394	2	401	2	394	419
85°	77	2	79	2	77	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1807.8	1808.9	1809.4	1810.5	1812.1	1812.7	1813.8	1812.7	1812.7	1812.7	1812.7
5°	1803.0	1805.1	1806.7	1808.9	1812.7	1813.2	1817.5	1818.1	1820.2	1824.5	1827.8
7.5°	1794.9	1797.0	1800.3	1805.7	1811.1	1817.0	1824.5	1832.6	1844.0	1854.8	1868.2
10°	1783.0	1785.7	1789.5	1794.3	1820.8	1824.5	1841.3	1864.5	1870.9	1904.9	1930.3
12.5°	1765.7	1774.9	1784.6	1788.9	1814.3	1854.2	1910.3	1899.0	1886.6	1997.7	1996.1
15°	1749.0	1761.4	1756.6	1791.6	1814.8	1884.4	1860.7	1911.4	2004.2	1981.5	1982.6
17.5°	1731.2	1733.9	1760.9	1790.0	1831.6	1867.2	1896.3	1965.9	1984.2	1985.9	1965.9
20°	1708.6	1721.5	1760.9	1787.3	1857.5	1874.2	1937.3	1972.9	1965.4	1947.0	1913.0
22.5°	1685.4	1724.7	1764.7	1801.9	1851.0	1895.8	1927.0	1943.8	1904.4	1832.1	1793.3
25°	1657.8	1681.0	1733.4	1787.9	1849.4	1875.3	1893.6	1866.6	1815.4	1750.6	1685.4
27.5°	1615.2	1652.4	1719.3	1780.8	1836.4	1867.7	1838.0	1773.3	1690.8	1648.1	1618.5
30°	1582.3	1630.9	1685.9	1745.2	1803.0	1821.3	1745.8	1671.9	1615.2	1572.6	1566.1
32.5°	1542.4	1611.4	1663.8	1720.4	1769.0	1744.7	1671.3	1575.8	1528.9	1512.7	1519.2
35°	1506.8	1559.1	1627.6	1683.2	1718.3	1663.8	1547.8	1488.4	1465.8	1475.0	1463.1
37.5°	1464.2	1533.2	1596.3	1644.4	1632.5	1550.5	1452.3	1414.5	1417.2	1409.7	1387.0
40°	1419.9	1485.7	1551.6	1596.9	1555.3	1430.2	1364.9	1356.8	1358.4	1334.2	1301.8
42.5°	1368.1	1428.0	1493.8	1534.8	1445.3	1347.6	1303.4	1304.5	1290.5	1256.5	1239.2
45°	1321.7	1376.8	1445.3	1449.1	1339.0	1257.5	1244.6	1230.6	1199.3	1188.0	1175.0
47.5°	1262.4	1323.4	1380.0	1359.5	1234.9	1184.2	1174.5	1143.7	1128.1	1119.4	1108.6
50°	1199.3	1260.8	1312.6	1254.3	1136.7	1124.8	1093.0	1068.7	1057.9	1048.8	1039.1
52.5°	1139.4	1190.1	1243.0	1142.6	1061.2	1049.8	1013.7	999.7	988.9	978.6	976.5
55°	1071.4	1116.2	1152.3	1036.4	988.9	962.4	936.5	926.8	916.6	911.7	919.8
57.5°	994.3	1045.0	1039.6	931.7	910.7	872.4	862.6	856.2	848.6	851.8	784.4
60°	924.7	963.5	937.1	855.1	819.5	793.6	785.0	780.6	785.0	719.1	632.3
62.5°	838.9	882.6	829.2	765.5	727.8	715.4	707.8	713.7	650.6	578.3	557.3
65°	749.9	797.4	718.6	669.5	645.8	635.0	634.4	584.3	522.2	494.2	494.2
67.5°	664.1	713.2	611.8	570.8	561.6	562.7	531.4	455.3	438.1	419.2	364.7
70°	572.9	616.1	505.5	480.7	475.3	471.5	395.4	374.9	354.4	304.3	300.0
72.5°	482.3	503.3	406.2	400.3	399.2	331.8	316.7	281.6	257.9	251.9	249.2
75°	394.4	387.9	321.0	326.4	275.1	251.4	227.1	206.6	203.4	201.2	50.2
77.5°	311.3	278.9	253.0	220.1	196.9	167.2	162.4	159.1	104.7	37.8	30.8
80°	226.6	180.7	168.3	143.0	121.9	117.1	119.8	36.7	29.1	24.3	21.0
82.5°	144.0	115.5	94.4	82.5	80.4	35.1	25.9	21.0	18.3	15.6	12.9
85°	77.1	51.3	47.5	39.9	23.7	16.2	13.5	10.3	8.6	7.0	6.5
87.5°	24.3	20.5	16.7	13.5	8.1	5.4	4.3	3.8	3.2	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1811.6	1812.7	1812.1	1813.8	1813.8	1815.9	1817.5	1819.1	1822.4	1824.0	1836.4
5°	1834.8	1837.5	1845.6	1853.1	1862.3	1865.0	1880.7	1884.4	1902.8	1904.9	1965.4
7.5°	1886.6	1896.8	1916.3	1935.7	1955.1	1967.5	1989.1	2002.6	2017.1	2030.1	2078.1
10°	1949.2	1966.4	1985.3	2004.7	2016.1	2039.8	2052.7	2054.9	2051.1	2030.1	1952.4
12.5°	2010.7	2027.9	2019.8	2023.6	2037.1	1995.0	2001.0	1970.7	1991.8	1887.7	1810.5
15°	2002.0	2001.0	1981.0	1916.3	1927.0	1846.7	1814.3	1789.5	1809.4	1798.6	1786.8
17.5°	1976.1	1927.0	1892.5	1814.8	1781.9	1759.3	1759.8	1760.3	1750.6	1760.9	1730.7
20°	1866.6	1811.6	1760.3	1732.8	1723.1	1706.9	1715.0	1706.9	1707.5	1710.7	1664.3
22.5°	1721.0	1704.2	1674.6	1683.2	1680.0	1694.5	1683.7	1667.0	1672.4	1648.1	1613.1
25°	1662.2	1642.7	1641.7	1644.9	1640.0	1633.6	1623.9	1598.5	1596.9	1589.3	1573.1
27.5°	1602.8	1603.9	1607.1	1597.4	1580.2	1567.2	1552.6	1540.2	1545.1	1536.5	1514.3
30°	1561.8	1561.3	1541.9	1533.2	1501.4	1501.9	1498.2	1490.6	1485.7	1486.3	1472.3
32.5°	1503.6	1486.8	1464.7	1453.9	1451.2	1441.5	1434.0	1435.6	1439.4	1425.9	1440.4
35°	1443.7	1409.1	1405.9	1396.7	1388.1	1381.6	1384.3	1373.5	1373.0	1371.4	1252.7
37.5°	1363.3	1346.6	1344.9	1335.2	1329.3	1327.7	1317.4	1319.0	1323.9	1332.5	1068.2
40°	1296.9	1281.8	1278.0	1277.5	1264.6	1263.5	1266.2	1276.4	1283.4	1229.5	1018.0
42.5°	1225.7	1226.8	1214.9	1207.4	1209.0	1213.8	1226.8	1191.2	1032.0	983.5	930.6
45°	1164.8	1159.4	1152.9	1150.7	1164.8	1155.0	1012.6	934.4	915.5	913.4	765.0
47.5°	1101.1	1099.5	1096.8	1098.4	1018.6	908.0	875.6	865.3	868.6	866.4	657.1
50°	1036.9	1039.1	1039.1	907.4	833.0	814.6	817.3	826.5	769.3	718.1	612.3
52.5°	981.3	964.6	826.5	779.0	762.3	770.4	751.0	679.2	627.4	597.2	566.5
55°	878.3	755.3	724.5	717.0	722.9	651.2	606.9	560.5	547.0	543.8	526.0
57.5°	691.1	666.3	669.0	638.8	570.2	529.8	512.0	505.5	499.6	495.2	43.2
60°	611.2	618.3	565.9	501.2	473.7	468.3	464.0	458.0	456.9	449.4	27.5
62.5°	559.4	492.0	446.7	430.5	424.0	422.4	414.3	411.6	349.6	48.0	20.5
65°	421.9	394.4	385.7	382.0	374.9	374.9	311.3	49.1	39.9	34.5	18.3
67.5°	344.2	342.0	337.7	332.9	226.6	47.5	41.5	36.1	31.3	27.5	16.2
70°	291.3	290.2	264.3	48.6	40.5	35.6	31.3	28.1	25.9	23.2	14.6
72.5°	239.0	48.6	41.0	35.6	30.8	28.1	25.4	22.7	20.5	18.9	11.9
75°	37.2	32.9	29.1	26.4	24.3	21.6	19.4	17.8	17.3	15.1	8.1
77.5°	27.0	23.2	21.0	18.9	16.7	15.1	12.9	11.3	10.3	8.6	5.9
80°	18.9	16.7	15.1	12.4	10.8	9.2	8.1	7.0	6.5	5.4	2.7
82.5°	10.8	9.2	8.1	6.5	5.9	4.9	4.3	3.8	3.8	2.7	2.7
85°	4.9	4.9	3.8	3.2	2.7	2.7	2.7	2.2	2.2	1.6	1.6
87.5°	2.2	2.2	2.2	2.2	2.2	1.6	1.6	1.6	1.6	1.6	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1853.7	1860.7	1874.2	1888.2	1872.6	1928.7	1924.3	1943.2	1953.5	1958.3	1969.7
5°	2018.8	2050.1	2060.3	2029.5	2011.7	1993.4	1951.9	1920.6	1924.3	1914.1	1876.9
7.5°	2015.5	1948.6	1858.5	1817.5	1814.3	1809.4	1822.4	1829.9	1831.0	1830.5	1829.4
10°	1845.0	1810.5	1804.6	1799.2	1801.3	1781.4	1772.2	1746.3	1760.3	1752.8	1755.5
12.5°	1793.3	1785.2	1753.3	1709.1	1735.5	1715.6	1704.2	1711.8	1703.2	1695.1	1692.4
15°	1762.5	1710.2	1692.4	1681.6	1674.0	1669.7	1673.5	1664.9	1662.2	1660.5	1664.3
17.5°	1698.8	1677.8	1658.4	1629.8	1630.3	1628.7	1639.5	1655.7	1656.8	1573.7	1498.7
20°	1648.7	1631.4	1606.6	1588.8	1613.1	1569.9	1403.2	1323.9	1311.5	1311.5	1313.7
22.5°	1608.7	1570.4	1572.1	1544.0	1316.9	1270.5	1271.6	1276.4	1254.3	1178.8	1170.7
25°	1554.3	1548.3	1430.2	1236.0	1237.6	1201.4	1145.9	1067.6	982.9	982.9	968.9
27.5°	1513.3	1387.6	1214.9	1206.8	1085.4	1008.8	961.4	889.6	879.9	870.7	871.8
30°	1478.2	1173.9	1178.2	1008.8	919.3	855.6	851.8	840.0	834.0	832.4	826.5
32.5°	1168.5	1143.2	986.2	858.9	823.8	813.5	808.7	795.2	794.7	784.4	713.2
35°	1095.7	1003.4	825.4	790.9	780.6	770.9	762.8	512.0	60.4	24.3	21.0
37.5°	1012.6	838.4	763.4	747.7	738.0	545.4	54.5	18.9	13.5	9.7	8.6
40°	858.3	748.8	725.1	707.8	291.9	18.9	11.9	9.2	5.4	4.9	4.3
42.5°	724.0	705.6	680.3	207.2	21.6	9.2	5.9	4.3	3.8	3.8	3.2
45°	677.6	661.4	274.1	20.5	13.5	4.3	3.8	3.8	3.2	2.2	2.2
47.5°	634.4	558.4	24.8	12.9	8.6	3.8	3.2	2.2	2.2	2.2	1.6
50°	588.6	30.8	17.3	9.7	5.4	2.2	2.2	2.2	2.2	1.6	1.6
52.5°	110.1	21.6	14.0	8.6	2.7	2.2	2.2	2.2	1.6	1.6	1.6
55°	25.9	17.3	12.9	7.6	2.2	2.2	2.2	1.6	1.6	1.6	1.1
57.5°	19.4	12.9	10.3	7.0	2.2	1.6	1.6	1.6	1.6	1.6	1.1
60°	16.2	9.2	8.1	6.5	1.6	1.6	1.6	1.6	1.6	1.6	1.1
62.5°	11.3	7.6	5.9	4.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	9.2	5.9	4.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	8.1	4.9	3.2	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	6.5	1.6	1.6	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	5.4	1.6	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	5.4	2.7	1.1	1.1	1.6	1.6	2.2	2.2	1.6	1.6	1.6
77.5°	3.8	2.7	1.1	1.1	1.6	1.6	2.2	2.2	1.6	1.6	1.6
80°	2.2	2.7	1.1	1.6	1.6	3.2	3.8	2.2	1.6	1.6	1.6
82.5°	2.2	2.7	3.2	3.2	1.6	2.7	3.2	2.7	2.2	1.6	1.6
85°	2.2	1.6	2.2	2.7	1.6	2.7	2.7	2.2	2.2	1.6	1.6
87.5°	1.1	1.6	1.6	2.2	2.2	2.2	2.7	2.2	2.2	2.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1975.1	1977.2	1943.2	1931.4	1941.6	1939.5	1930.3	1896.3	1892.5	1869.9	1837.0
5°	1887.7	1902.2	1884.4	1915.2	1900.6	1915.2	1959.4	1979.9	2013.4	2033.9	2041.4
7.5°	1826.7	1829.9	1829.9	1832.6	1835.3	1835.9	1832.6	1830.5	1821.3	1810.0	1830.5
10°	1752.8	1756.6	1763.0	1762.0	1761.4	1772.8	1775.5	1798.6	1797.6	1801.9	1817.5
12.5°	1714.5	1685.4	1711.8	1704.8	1714.5	1699.4	1727.4	1722.6	1724.2	1737.1	1770.6
15°	1650.8	1660.0	1666.5	1666.5	1670.3	1667.0	1663.8	1685.9	1699.4	1699.9	1697.8
17.5°	1528.4	1458.8	1530.0	1511.6	1657.8	1661.6	1649.2	1639.0	1639.0	1647.1	1664.3
20°	1312.0	1313.7	1314.2	1321.2	1329.8	1329.3	1329.8	1542.4	1643.3	1620.1	1604.4
22.5°	1150.2	1130.2	1167.4	1164.8	1211.1	1262.4	1311.5	1306.6	1309.9	1459.9	1594.7
25°	922.0	947.9	926.8	936.0	988.3	1049.3	1087.1	1185.8	1293.2	1285.6	1320.7
27.5°	868.0	861.0	870.7	870.7	877.7	885.8	906.9	962.4	1057.9	1158.3	1253.2
30°	816.8	822.7	823.8	833.5	838.9	844.3	847.5	868.6	890.2	959.7	1076.8
32.5°	613.4	537.9	707.8	753.7	792.5	801.7	808.2	816.8	832.4	842.7	901.5
35°	17.8	17.8	18.9	21.6	27.5	185.6	706.7	779.0	789.3	802.2	813.0
37.5°	8.6	6.5	7.6	8.1	9.7	13.5	19.4	60.4	672.7	760.7	772.5
40°	3.8	3.8	3.8	3.8	4.3	5.4	8.1	13.5	20.5	541.1	729.9
42.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.8	4.9	9.7	23.2	383.0
45°	2.2	2.2	1.6	2.2	2.2	2.7	3.2	3.2	4.3	14.6	26.4
47.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.7	3.2	9.7	14.0
50°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	7.6	9.7
52.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	8.6
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.2	7.6
57.5°	1.1	1.1	1.1	1.1	1.1	1.6	1.1	1.1	1.6	1.6	7.0
60°	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	6.5
62.5°	1.6	1.6	1.1	1.6	1.1	1.1	1.6	1.6	1.6	1.6	4.3
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.6
67.5°	1.6	1.6	1.6	1.6	1.1	1.6	1.1	1.6	1.6	1.1	1.1
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1
75°	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	1.1	1.1	1.1
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.7	3.2	2.7	2.7	1.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	2.7	2.7	2.7	2.7	3.8
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2	2.7
85°	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2	1.6	2.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1839.7	1821.3	1815.4	1803.0	1801.9	1803.0	1800.3	1796.5	1798.6	1794.9	1791.6
5°	2045.7	1996.6	1964.8	1922.2	1863.4	1850.4	1847.2	1828.9	1822.4	1820.2	1811.6
7.5°	1879.0	1968.6	2022.5	2040.9	1971.8	1955.6	1936.8	1921.7	1907.1	1879.6	1862.8
10°	1805.1	1809.4	1861.2	1921.7	2019.8	2033.3	2043.6	2010.7	2001.5	1931.4	1916.3
12.5°	1787.9	1788.4	1794.3	1831.0	1908.2	1916.8	1952.9	1972.4	1996.1	2009.6	1998.8
15°	1709.1	1752.8	1785.2	1788.4	1795.4	1810.5	1821.3	1888.7	1917.3	1993.9	1989.6
17.5°	1672.4	1686.4	1733.4	1771.7	1765.2	1759.8	1768.4	1777.6	1805.1	1881.7	1880.7
20°	1611.4	1656.2	1681.6	1721.5	1757.6	1759.3	1749.6	1744.2	1733.4	1745.8	1757.1
22.5°	1585.6	1592.6	1640.0	1668.1	1709.1	1723.7	1725.8	1726.4	1720.4	1713.9	1710.7
25°	1582.9	1560.7	1585.0	1620.1	1650.3	1665.9	1683.7	1689.7	1687.5	1687.5	1684.3
27.5°	1295.3	1553.7	1540.8	1564.0	1600.7	1611.4	1620.6	1639.0	1650.3	1658.4	1662.2
30°	1233.8	1280.2	1506.2	1509.5	1546.7	1545.6	1555.9	1571.0	1585.6	1604.4	1609.3
32.5°	1091.4	1205.2	1378.9	1455.0	1493.8	1497.6	1503.0	1507.3	1520.8	1541.9	1560.2
35°	874.5	1097.9	1181.5	1429.1	1436.1	1443.7	1446.9	1457.2	1461.5	1470.1	1486.3
37.5°	791.4	907.4	1133.5	1236.0	1369.8	1376.2	1393.5	1397.8	1404.8	1411.8	1424.2
40°	743.4	775.2	943.6	1103.8	1316.3	1320.7	1326.6	1337.4	1337.9	1346.0	1357.3
42.5°	705.1	725.6	774.7	1054.2	1278.6	1278.0	1264.0	1271.0	1274.3	1282.9	1298.5
45°	563.2	680.8	712.1	861.0	1018.0	1091.4	1232.2	1209.0	1208.5	1211.7	1228.4
47.5°	28.6	640.4	662.5	710.5	961.4	964.1	982.4	1136.7	1160.4	1152.9	1154.5
50°	19.4	44.2	617.2	639.3	828.7	895.5	909.0	916.0	1005.1	1104.3	1088.1
52.5°	15.1	25.4	378.2	593.4	673.3	722.4	809.2	858.9	864.3	904.2	1039.6
55°	13.5	19.4	41.0	547.6	572.4	583.2	633.9	720.8	790.9	811.9	813.5
57.5°	11.9	17.8	28.1	247.6	520.6	522.8	531.4	561.6	624.7	682.5	747.7
60°	10.8	15.6	22.1	42.6	473.1	478.5	480.1	488.2	495.8	535.2	610.2
62.5°	6.5	12.4	19.4	30.8	374.4	430.0	429.4	434.8	441.8	446.2	461.3
65°	5.4	9.7	16.7	25.9	45.9	57.2	347.4	386.3	390.6	396.5	399.2
67.5°	4.9	8.6	12.4	20.5	34.5	39.4	45.3	56.1	306.4	345.3	350.7
70°	4.3	5.9	10.3	17.3	28.1	30.2	34.0	38.8	45.9	56.6	277.3
72.5°	2.7	4.3	7.0	12.4	21.6	24.3	26.4	29.7	32.9	39.4	45.3
75°	1.1	3.2	5.9	9.2	16.7	18.3	20.0	22.1	24.8	29.1	32.4
77.5°	1.1	2.7	4.9	6.5	10.8	12.4	14.6	16.2	18.3	20.5	23.7
80°	3.8	2.2	3.2	4.9	7.6	8.1	9.2	10.3	11.9	13.5	15.6
82.5°	2.7	3.2	3.8	3.2	3.8	4.9	5.4	6.5	7.0	8.1	8.6
85°	2.2	2.2	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.8	4.9
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1791.6	1790.6	1787.3	1787.3	1786.8	1788.9	1790.6	1792.2	1791.6	1794.9	1791.6
5°	1805.1	1802.4	1797.6	1793.3	1791.6	1792.7	1791.1	1792.7	1790.6	1793.3	1788.4
7.5°	1842.3	1833.2	1814.3	1806.7	1797.0	1796.5	1791.6	1790.6	1787.3	1787.3	1781.4
10°	1908.2	1863.9	1858.5	1835.9	1827.8	1788.4	1797.0	1782.5	1780.8	1773.8	1771.1
12.5°	1962.1	1927.6	1917.3	1897.4	1874.7	1794.9	1812.7	1781.4	1779.8	1765.7	1751.2
15°	1963.2	1983.2	1955.1	1900.1	1895.2	1840.2	1804.0	1793.3	1779.2	1737.1	1744.2
17.5°	1900.1	1945.9	1959.4	1947.5	1913.0	1875.8	1825.1	1803.5	1761.4	1742.5	1729.6
20°	1797.6	1844.0	1901.7	1905.5	1927.0	1900.6	1834.3	1799.2	1748.5	1715.6	1704.8
22.5°	1716.1	1750.1	1816.5	1847.2	1873.6	1882.8	1840.7	1788.9	1725.8	1694.0	1687.5
25°	1672.9	1680.5	1700.5	1736.6	1794.9	1837.0	1842.9	1787.9	1755.0	1685.4	1648.7
27.5°	1657.3	1650.8	1642.7	1661.1	1704.8	1756.0	1790.0	1799.2	1717.2	1650.8	1614.1
30°	1617.4	1621.2	1608.7	1602.3	1630.9	1683.7	1744.2	1759.3	1696.1	1627.6	1585.6
32.5°	1568.3	1574.8	1576.9	1565.6	1559.7	1596.3	1661.6	1697.8	1694.5	1594.7	1547.8
35°	1506.8	1525.1	1530.0	1530.5	1520.8	1514.9	1552.6	1627.6	1656.2	1579.6	1511.6
37.5°	1442.0	1447.4	1473.9	1480.9	1480.9	1463.1	1491.1	1551.0	1590.9	1545.6	1467.4
40°	1361.1	1378.4	1403.2	1415.6	1428.0	1429.6	1414.0	1456.1	1521.9	1510.6	1425.9
42.5°	1302.3	1313.7	1328.8	1345.5	1370.8	1377.3	1361.1	1368.7	1437.2	1466.9	1371.9
45°	1233.8	1248.9	1253.2	1271.6	1298.0	1316.9	1316.3	1300.7	1355.7	1392.4	1332.5
47.5°	1163.7	1178.2	1185.8	1195.0	1214.4	1238.7	1252.1	1245.1	1255.9	1327.7	1280.2
50°	1091.4	1099.5	1114.6	1124.8	1137.8	1151.8	1184.2	1190.6	1175.5	1232.7	1222.5
52.5°	1022.9	1025.6	1035.8	1046.1	1063.3	1073.6	1099.5	1118.9	1117.8	1134.5	1158.3
55°	969.5	957.6	959.7	967.8	979.2	994.8	1009.4	1039.6	1049.8	1053.1	1090.8
57.5°	757.4	879.4	890.2	889.6	903.1	910.1	923.6	943.6	980.2	972.2	1014.2
60°	688.4	701.9	803.8	815.7	820.6	827.0	843.2	861.6	888.5	905.8	924.1
62.5°	524.9	606.9	637.7	727.8	741.8	745.6	756.4	765.0	793.0	832.4	824.9
65°	406.2	441.3	535.2	571.9	648.5	658.2	673.3	682.5	690.5	735.9	738.0
67.5°	351.2	356.6	382.0	452.6	501.2	576.2	585.3	593.4	605.8	638.2	658.2
70°	300.0	306.4	313.4	319.4	382.5	432.1	501.7	504.4	512.5	534.1	579.4
72.5°	56.6	256.3	260.6	264.3	271.4	304.3	370.6	424.6	427.8	438.1	479.6
75°	38.3	44.8	61.5	211.5	218.5	220.7	232.0	299.4	349.0	351.2	369.5
77.5°	27.5	30.8	37.2	44.2	112.8	169.4	172.1	184.5	235.8	273.0	276.2
80°	18.9	21.0	24.8	28.1	34.5	45.3	125.2	128.9	135.4	186.7	196.4
82.5°	10.8	12.4	14.6	17.8	20.5	25.9	33.4	43.2	87.9	93.9	124.6
85°	5.4	5.9	7.0	8.6	10.3	12.4	16.7	20.5	28.1	50.7	52.3
87.5°	2.7	2.7	2.7	2.7	4.3	4.9	5.9	7.6	9.7	14.6	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1792.2	1799.7	1806.2	1807.8	1807.8	1808.9	1810.5	1811.6	1812.7	1813.8	1812.7
5°	1788.9	1797.0	1802.4	1804.0	1804.0	1807.3	1810.0	1813.2	1814.8	1814.8	1813.8
7.5°	1780.8	1786.8	1793.8	1798.1	1798.6	1804.0	1808.9	1808.4	1810.5	1811.6	1814.3
10°	1770.1	1770.1	1781.9	1785.2	1787.9	1793.8	1795.4	1798.6	1806.2	1807.3	1814.3
12.5°	1764.7	1759.3	1773.3	1774.9	1784.1	1776.5	1786.2	1789.5	1781.9	1792.2	1778.7
15°	1740.4	1746.9	1744.7	1749.6	1765.7	1757.1	1783.5	1774.9	1794.3	1771.1	1812.1
17.5°	1720.4	1719.3	1728.0	1732.3	1735.5	1753.9	1760.9	1770.6	1778.1	1771.7	1787.9
20°	1705.9	1697.2	1703.7	1708.6	1719.9	1733.9	1738.2	1723.7	1749.0	1792.2	1802.4
22.5°	1678.3	1672.4	1680.0	1680.0	1697.2	1695.1	1711.3	1702.1	1725.8	1776.0	1828.3
25°	1641.1	1641.7	1649.8	1659.5	1662.7	1687.0	1695.6	1707.5	1737.1	1797.0	1828.9
27.5°	1603.4	1600.1	1605.0	1624.9	1641.7	1659.5	1662.2	1702.6	1743.1	1784.1	1812.1
30°	1565.6	1562.4	1565.6	1580.2	1600.1	1612.0	1641.7	1695.6	1733.4	1761.4	1787.9
32.5°	1525.1	1521.9	1529.4	1540.2	1575.3	1576.9	1635.7	1686.4	1716.1	1736.6	1731.8
35°	1482.0	1477.7	1484.7	1501.4	1533.8	1545.6	1607.1	1644.9	1678.3	1688.1	1665.4
37.5°	1430.2	1422.6	1431.3	1454.5	1488.4	1523.0	1574.2	1617.9	1635.7	1609.8	1582.9
40°	1376.2	1370.8	1385.9	1397.8	1437.7	1485.7	1544.6	1575.3	1564.0	1534.3	1504.6
42.5°	1328.2	1316.9	1330.4	1353.0	1398.4	1452.8	1500.3	1517.6	1490.6	1446.9	1412.4
45°	1269.4	1255.9	1272.1	1302.3	1350.9	1412.9	1450.1	1444.2	1398.4	1360.6	1313.1
47.5°	1207.9	1191.7	1207.9	1244.1	1298.5	1364.4	1391.3	1364.4	1306.6	1259.2	1220.9
50°	1147.5	1128.6	1144.3	1198.7	1252.1	1302.9	1302.3	1250.0	1215.5	1163.7	1130.2
52.5°	1087.6	1060.6	1076.3	1135.6	1189.0	1246.8	1204.1	1155.6	1114.0	1068.7	1057.9
55°	1013.7	984.6	1005.6	1091.9	1132.9	1166.9	1098.9	1056.3	1015.3	992.7	979.2
57.5°	943.6	911.7	930.1	1032.0	1062.2	1070.9	1008.3	947.9	923.6	916.0	896.6
60°	871.3	835.1	852.4	970.0	991.0	956.0	894.5	847.5	842.7	827.6	812.5
62.5°	802.2	762.3	773.1	892.9	902.6	838.9	782.3	769.8	758.0	742.9	734.8
65°	722.9	681.4	696.5	810.8	801.7	719.7	687.8	685.1	669.5	657.1	669.0
67.5°	650.1	601.0	622.0	721.3	679.8	612.9	599.9	593.4	581.0	588.0	463.4
70°	570.2	516.8	545.4	624.7	563.2	519.0	514.1	504.4	505.0	401.4	338.3
72.5°	481.2	434.8	476.4	519.0	445.6	432.7	425.7	424.6	342.6	278.4	262.7
75°	403.0	356.1	400.8	417.0	355.0	346.4	345.8	285.9	225.0	214.7	209.9
77.5°	314.5	278.4	321.0	296.7	272.4	262.7	235.8	177.0	169.4	162.4	61.0
80°	212.0	214.7	239.5	204.5	194.2	165.6	130.6	125.2	107.9	43.2	34.0
82.5°	128.9	161.8	152.7	127.9	125.2	90.1	82.5	42.1	31.3	24.8	21.6
85°	66.9	82.0	78.8	69.6	51.8	46.4	25.9	20.0	16.2	12.4	10.3
87.5°	22.7	30.2	29.1	23.2	17.8	14.0	9.2	7.6	5.4	4.3	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1811.6	1811.6	1810.5	1811.6	1812.1	1811.1	1811.1	1812.1	1812.7	1813.2	1815.9
5°	1814.3	1815.4	1817.0	1820.2	1820.8	1827.2	1829.9	1831.6	1833.2	1833.7	1829.9
7.5°	1820.2	1824.0	1827.2	1826.7	1822.9	1812.7	1809.4	1806.7	1811.6	1824.0	1838.6
10°	1825.6	1808.4	1776.0	1820.2	1806.7	1819.1	1855.8	1863.9	1888.7	1923.8	1934.1
12.5°	1788.4	1835.9	1846.1	1796.5	1888.2	1854.2	1894.7	1930.3	1940.5	1976.1	1954.6
15°	1828.3	1851.5	1867.2	1916.8	1911.4	1940.5	1951.9	1944.9	1946.5	1955.6	1979.9
17.5°	1827.8	1874.2	1884.4	1917.9	1940.5	1941.1	1937.8	1934.6	1943.2	1950.2	1935.7
20°	1859.1	1874.2	1894.1	1907.6	1911.9	1917.3	1927.6	1919.5	1903.3	1887.7	1881.2
22.5°	1843.4	1877.4	1894.7	1896.8	1894.1	1877.4	1862.3	1839.7	1832.1	1824.0	1826.7
25°	1846.7	1862.3	1860.2	1851.5	1840.2	1808.9	1801.3	1791.6	1777.1	1742.0	1710.2
27.5°	1823.5	1815.4	1805.7	1784.6	1764.1	1747.4	1728.5	1697.2	1671.3	1633.6	1619.5
30°	1784.6	1752.3	1728.5	1716.1	1696.1	1668.1	1639.5	1601.2	1568.3	1560.7	1553.7
32.5°	1710.2	1678.3	1658.9	1628.7	1594.7	1561.3	1528.4	1513.3	1506.2	1507.3	1500.9
35°	1634.1	1606.1	1576.9	1531.6	1506.2	1472.8	1460.9	1457.7	1451.2	1444.2	1436.7
37.5°	1553.2	1520.3	1476.6	1449.6	1424.2	1410.8	1404.8	1400.0	1388.6	1376.2	1367.6
40°	1475.0	1415.6	1391.3	1364.9	1357.3	1351.4	1342.8	1330.9	1315.3	1313.1	1309.3
42.5°	1370.3	1327.7	1306.6	1301.2	1292.1	1281.8	1274.3	1261.3	1254.8	1259.2	1262.4
45°	1271.0	1249.5	1242.4	1236.0	1218.7	1204.1	1199.3	1195.0	1200.4	1224.1	1167.4
47.5°	1190.6	1182.0	1173.4	1162.6	1146.4	1135.6	1140.5	1144.8	1149.6	975.4	890.2
50°	1121.1	1109.2	1095.7	1083.8	1074.1	1073.0	1098.4	1022.3	856.2	851.8	765.5
52.5°	1045.0	1027.2	1019.1	1012.1	1016.4	1032.6	854.5	793.0	760.7	660.9	616.6
55°	963.0	947.3	947.3	953.8	930.6	754.2	745.0	644.1	583.2	565.9	558.9
57.5°	881.0	879.4	888.5	812.5	684.6	656.6	551.9	529.8	520.1	517.9	506.6
60°	806.0	821.1	687.3	632.3	549.7	495.8	480.7	478.0	467.7	464.0	453.7
62.5°	746.1	618.8	576.2	470.4	442.9	435.9	427.8	424.0	414.9	366.3	107.4
65°	538.9	509.3	413.2	395.4	393.3	383.0	379.8	341.5	80.4	53.9	45.9
67.5°	406.8	360.9	348.5	345.3	335.0	314.5	93.3	53.4	45.9	39.9	35.1
70°	312.4	304.3	295.1	287.5	84.7	52.9	45.9	38.8	33.4	29.7	27.0
72.5°	255.7	250.3	145.7	55.6	45.3	38.3	34.0	29.7	25.9	23.7	21.6
75°	200.1	55.6	45.9	38.3	32.9	28.1	24.8	22.1	20.0	18.3	16.7
77.5°	45.3	36.7	31.3	26.4	23.7	21.0	18.9	16.2	14.6	12.9	10.8
80°	28.1	24.3	20.5	18.9	16.2	13.5	11.9	10.8	8.6	8.1	7.0
82.5°	18.3	14.6	12.9	10.8	8.6	8.1	7.0	5.4	4.9	4.3	3.8
85°	8.1	7.0	5.9	4.9	3.8	3.2	2.7	2.2	2.2	2.2	2.2
87.5°	2.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1817.0	1826.7	1835.9	1833.2	1823.5	1808.4	1804.0	1798.1	1802.4	1811.6	1815.4
5°	1829.9	1824.5	1844.0	1872.6	1919.0	1923.3	1955.6	1963.2	1989.1	2005.3	2004.7
7.5°	1848.3	1924.9	1956.7	1991.2	2006.9	2003.1	2008.0	2004.2	1998.3	1995.6	1992.3
10°	1941.6	1999.9	2011.7	2011.7	1987.5	1954.6	1940.5	1916.3	1867.7	1868.8	1860.7
12.5°	1996.1	2016.6	1988.5	1964.8	1867.2	1829.4	1788.4	1769.0	1757.6	1740.4	1746.9
15°	1967.5	1938.4	1921.7	1845.0	1785.2	1717.2	1718.3	1706.4	1694.0	1695.1	1687.0
17.5°	1925.4	1902.2	1783.5	1730.7	1701.5	1675.1	1670.3	1654.6	1646.5	1643.8	1643.3
20°	1867.7	1784.1	1695.6	1682.7	1647.6	1617.4	1612.5	1617.4	1642.2	1598.0	1448.0
22.5°	1800.3	1680.0	1654.1	1617.4	1593.6	1581.8	1611.4	1476.6	1272.6	1297.5	1271.0
25°	1685.9	1633.6	1589.3	1561.3	1558.6	1485.7	1238.1	1212.2	1081.1	1011.0	932.2
27.5°	1602.3	1579.6	1533.2	1528.4	1493.3	1214.9	1086.0	943.6	891.2	883.1	865.9
30°	1551.6	1519.2	1491.1	1368.7	1191.7	978.1	871.3	851.3	842.1	832.4	817.3
32.5°	1490.6	1459.9	1473.3	1150.7	950.0	842.1	820.6	806.0	789.3	782.8	728.3
35°	1428.6	1414.5	1151.3	967.3	816.8	790.9	774.7	759.6	604.2	146.2	49.6
37.5°	1362.2	1359.0	1034.7	802.8	765.0	740.7	694.9	143.5	34.0	23.2	17.3
40°	1310.4	1035.3	817.9	752.6	721.8	683.5	96.0	23.7	15.1	9.2	5.9
42.5°	1275.9	931.2	732.1	706.2	639.3	70.7	24.3	10.3	5.9	4.9	3.8
45°	983.5	735.3	684.1	657.1	80.9	24.3	14.0	4.9	3.8	3.2	2.2
47.5°	907.4	667.9	637.7	143.5	27.0	12.9	9.7	3.2	2.2	2.2	2.2
50°	687.3	617.2	507.7	35.1	17.3	9.2	7.0	2.2	2.2	2.2	1.6
52.5°	602.6	569.7	54.5	23.2	13.5	7.0	4.3	1.6	1.6	1.6	1.6
55°	550.8	361.5	32.4	17.8	11.3	6.5	2.7	1.6	1.6	1.6	1.1
57.5°	503.9	48.6	23.7	15.1	10.3	5.9	1.6	1.6	1.6	1.6	1.1
60°	427.3	35.1	19.4	13.5	9.7	5.4	1.6	1.6	1.6	1.6	1.6
62.5°	55.6	27.5	16.7	11.9	7.0	4.3	1.1	1.6	1.6	1.6	1.6
65°	40.5	21.6	15.1	8.1	4.3	1.6	1.1	1.6	1.6	1.6	1.6
67.5°	31.3	17.8	11.3	7.0	3.8	1.1	1.1	1.6	1.6	1.6	1.6
70°	24.8	15.1	9.2	5.9	3.2	1.1	1.1	1.6	1.6	1.6	1.6
72.5°	19.4	10.8	6.5	3.2	2.2	1.1	1.1	1.6	1.6	1.6	1.6
75°	14.6	8.6	4.9	2.7	1.1	1.1	1.1	1.6	1.6	1.6	1.6
77.5°	9.7	5.4	3.8	2.2	2.2	2.2	2.7	2.7	1.6	1.6	1.6
80°	6.5	3.8	2.7	2.7	2.7	2.2	2.7	2.7	1.6	2.7	1.6
82.5°	3.2	2.7	2.7	2.2	2.2	1.6	2.2	2.2	2.2	2.2	1.6
85°	2.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	1.6
87.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	2.2	2.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1810.5	1812.1	1807.8	1831.0	1819.1	1820.2	1825.1	1812.7	1815.4	1806.7	1800.8
5°	2006.9	2010.1	2013.4	2014.4	2016.6	2019.3	2016.1	2014.4	2011.2	2000.4	1989.1
7.5°	1976.1	1972.4	1970.7	1972.9	1976.7	1978.3	1975.6	1979.4	1993.4	1999.3	2003.1
10°	1814.3	1797.0	1808.9	1807.3	1793.8	1839.1	1826.7	1833.7	1838.6	1888.2	1918.4
12.5°	1737.1	1747.9	1727.4	1717.2	1730.7	1739.8	1749.0	1729.6	1756.6	1744.2	1784.1
15°	1672.4	1665.9	1663.8	1664.3	1661.6	1674.6	1677.8	1682.1	1685.9	1702.6	1709.1
17.5°	1643.3	1654.1	1658.4	1661.6	1656.2	1650.3	1644.4	1635.7	1638.4	1634.1	1646.5
20°	1347.1	1311.0	1308.8	1329.8	1306.6	1319.6	1350.9	1560.2	1553.2	1634.6	1607.1
22.5°	1124.3	1090.3	1061.2	1035.8	1072.0	1087.1	1145.3	1211.1	1318.0	1301.2	1417.2
25°	918.2	905.8	898.2	894.5	897.2	896.1	909.0	939.8	988.3	1102.7	1250.5
27.5°	858.9	852.9	850.2	841.6	848.1	845.9	856.2	862.6	877.2	888.5	936.5
30°	811.9	804.9	800.1	790.9	797.4	797.9	801.1	817.9	823.8	833.5	848.6
32.5°	296.7	174.8	164.0	155.9	170.5	222.3	390.0	681.9	777.9	785.5	802.8
35°	29.1	24.3	21.6	21.6	22.1	24.3	32.4	85.2	155.9	602.6	754.2
37.5°	11.3	9.7	8.1	7.6	8.1	9.2	12.4	16.2	22.1	45.9	204.5
40°	4.9	4.3	3.8	3.8	3.8	3.8	4.3	5.4	8.1	15.1	23.7
42.5°	3.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.8	4.9	9.7
45°	2.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.7	4.3
47.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2
50°	1.6	1.6	1.6	1.6	1.1	1.6	1.1	1.6	1.6	1.6	1.6
52.5°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.6	1.6	1.1	1.6	1.1	1.1	1.6	1.6	1.6	1.1	1.1
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	2.2
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.7	3.2	2.7
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.7	2.7	2.7
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1790.6	1790.0	1801.3	1810.0	1806.7	1810.0	1813.8	1814.3	1815.4	1811.1	1809.4
5°	1967.5	1950.8	1918.4	1895.2	1868.2	1819.1	1794.9	1797.6	1798.1	1796.5	1798.6
7.5°	2001.5	1999.9	1988.5	1983.7	1965.4	1930.3	1874.2	1864.5	1840.7	1825.6	1813.2
10°	1916.3	1955.1	1965.4	1982.6	1993.4	1986.9	1939.5	1932.4	1917.3	1900.1	1903.8
12.5°	1824.0	1855.8	1857.5	1951.3	1972.4	1974.5	1956.2	1965.9	1968.0	1929.2	1906.5
15°	1710.7	1725.8	1757.6	1845.0	1908.7	1948.6	1960.5	1965.9	1939.5	1937.8	1928.7
17.5°	1661.1	1670.8	1685.4	1734.5	1831.0	1889.8	1940.0	1936.2	1946.5	1938.9	1915.7
20°	1598.5	1606.6	1632.5	1657.3	1704.8	1783.0	1876.9	1883.9	1897.4	1895.8	1902.2
22.5°	1597.4	1568.8	1573.1	1592.6	1642.2	1712.3	1812.1	1835.3	1844.0	1849.9	1856.9
25°	1267.3	1494.4	1535.9	1548.3	1580.7	1621.7	1739.3	1747.9	1764.1	1790.6	1810.0
27.5°	1097.9	1252.1	1418.3	1504.6	1525.1	1559.1	1629.3	1642.2	1697.2	1703.7	1733.9
30°	866.4	985.6	1233.8	1441.5	1475.5	1499.2	1548.9	1574.8	1598.5	1624.4	1656.2
32.5°	815.2	834.0	971.6	1192.8	1457.2	1439.4	1476.0	1491.7	1517.6	1540.2	1563.4
35°	768.2	781.2	810.3	977.0	1186.9	1390.3	1415.1	1425.3	1439.9	1457.2	1473.9
37.5°	719.1	738.6	758.5	803.3	1097.9	1351.4	1350.9	1362.7	1371.4	1385.9	1400.0
40°	130.6	678.1	710.5	739.6	851.3	1077.9	1290.5	1295.8	1301.8	1311.0	1325.5
42.5°	21.0	113.3	665.7	693.8	725.6	965.1	1262.9	1240.8	1237.0	1243.5	1256.5
45°	10.8	27.5	133.8	647.9	676.5	769.8	1032.6	1202.5	1198.7	1186.3	1189.0
47.5°	8.1	17.3	32.9	223.9	633.4	660.9	952.7	942.5	1014.2	1151.8	1130.8
50°	7.0	11.9	19.4	45.9	559.4	608.5	733.7	857.2	895.0	899.9	1064.9
52.5°	6.5	8.1	14.0	29.7	117.6	562.7	596.7	639.8	703.5	840.0	836.7
55°	5.9	7.6	11.9	20.0	41.0	507.1	542.2	550.3	563.8	629.0	715.4
57.5°	3.2	7.0	11.3	17.3	30.8	92.8	492.0	498.5	509.3	512.0	542.7
60°	1.6	6.5	10.3	15.1	22.7	43.2	442.4	449.9	456.4	457.5	467.2
62.5°	1.1	5.9	8.6	14.0	18.9	30.8	104.7	213.6	406.2	406.2	417.6
65°	1.1	4.3	5.4	9.2	17.3	25.4	44.2	51.3	99.8	245.5	366.3
67.5°	1.1	1.6	4.9	7.6	12.9	19.4	32.4	37.8	45.3	51.8	96.0
70°	1.1	1.1	4.3	4.9	8.1	14.6	23.2	26.4	30.8	35.1	40.5
72.5°	1.1	1.1	3.8	3.8	5.4	9.7	17.8	19.4	22.1	24.8	28.6
75°	2.7	2.2	3.2	3.2	3.8	7.6	13.5	15.1	16.2	18.3	21.0
77.5°	2.7	2.7	2.7	2.7	2.7	4.9	8.6	9.7	11.3	12.4	14.6
80°	2.2	2.2	2.2	2.7	2.7	3.2	5.4	5.9	6.5	8.1	8.6
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.8	4.9
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2
87.5°	1.6	1.6	1.6	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1808.9	1805.7	1803.0	1804.6	1799.7	1797.6	1799.2	1799.7	1800.8	1803.5	1804.0
5°	1804.0	1803.0	1807.8	1810.5	1809.4	1810.5	1810.5	1808.4	1805.1	1807.3	1802.4
7.5°	1800.8	1793.8	1788.4	1789.5	1784.1	1790.6	1796.5	1805.1	1807.8	1807.8	1802.4
10°	1856.4	1848.8	1818.6	1798.1	1784.6	1772.8	1800.8	1772.2	1785.7	1734.5	1793.3
12.5°	1902.2	1912.5	1899.0	1842.9	1833.2	1797.6	1818.1	1783.0	1772.8	1713.9	1732.8
15°	1920.6	1901.2	1896.8	1881.2	1860.2	1849.9	1794.9	1788.9	1772.2	1778.7	1753.9
17.5°	1904.4	1914.1	1901.2	1890.9	1869.3	1845.0	1812.1	1783.0	1759.8	1708.0	1751.7
20°	1888.7	1901.7	1862.8	1869.3	1871.5	1843.4	1826.2	1801.9	1772.8	1724.2	1686.4
22.5°	1862.8	1853.7	1856.9	1847.2	1839.1	1842.9	1819.1	1802.4	1753.3	1731.2	1680.0
25°	1820.8	1817.5	1826.2	1825.1	1805.7	1799.2	1787.3	1769.5	1750.1	1714.5	1672.4
27.5°	1752.3	1769.0	1784.1	1791.1	1780.8	1763.6	1757.1	1746.9	1733.4	1697.2	1665.9
30°	1680.0	1698.8	1716.1	1731.2	1740.4	1732.8	1726.9	1721.0	1700.5	1676.7	1641.7
32.5°	1597.4	1622.2	1646.0	1664.3	1684.3	1690.2	1685.9	1681.0	1663.8	1642.2	1614.1
35°	1501.9	1535.9	1570.4	1603.4	1612.0	1626.0	1640.0	1631.9	1622.8	1601.2	1575.3
37.5°	1421.0	1445.3	1470.1	1511.6	1541.9	1559.7	1584.5	1587.7	1572.1	1561.8	1527.8
40°	1337.4	1359.5	1395.7	1419.9	1461.5	1482.0	1508.4	1520.3	1516.5	1510.6	1480.9
42.5°	1271.6	1282.4	1306.1	1327.7	1368.7	1410.8	1434.0	1446.9	1460.4	1455.5	1440.4
45°	1201.4	1211.1	1219.2	1238.1	1278.0	1315.3	1343.9	1363.3	1387.6	1398.9	1380.5
47.5°	1131.8	1134.5	1144.3	1159.9	1183.6	1212.2	1260.2	1289.4	1312.0	1334.2	1322.3
50°	1078.4	1068.7	1070.3	1080.1	1099.5	1127.5	1162.1	1203.1	1229.0	1255.9	1258.6
52.5°	942.5	1021.2	1002.4	1007.8	1018.0	1031.5	1067.6	1108.1	1139.9	1163.1	1186.3
55°	790.9	806.5	958.1	936.5	943.0	954.9	971.6	1012.1	1042.8	1075.2	1107.6
57.5°	613.4	729.9	735.9	876.1	872.9	874.0	888.0	911.2	941.9	982.4	1009.9
60°	476.9	526.0	621.5	670.0	793.0	797.4	805.5	818.9	845.4	883.7	927.4
62.5°	420.8	427.3	461.3	534.1	613.9	710.5	727.8	729.9	741.8	780.1	830.8
65°	369.5	373.9	384.1	391.7	458.6	551.9	635.0	648.5	656.0	678.7	721.8
67.5°	254.6	322.1	331.2	336.6	343.1	386.3	489.3	557.8	566.5	586.4	624.2
70°	49.1	102.0	278.9	284.8	288.1	297.8	314.5	423.5	480.7	499.6	516.8
72.5°	33.4	39.4	47.5	112.2	237.4	242.8	246.5	260.6	357.1	412.2	421.3
75°	24.3	27.0	31.8	39.4	48.6	158.1	195.8	202.8	209.9	289.7	336.1
77.5°	17.3	19.4	21.6	25.4	29.7	38.3	55.0	151.6	158.6	162.4	229.3
80°	9.7	11.9	14.6	16.7	18.9	21.6	28.1	35.1	78.2	114.4	120.3
82.5°	5.4	6.5	7.6	9.2	10.3	12.9	15.6	18.9	24.8	36.7	77.7
85°	2.7	2.7	2.7	3.8	4.3	5.9	7.0	8.1	11.3	15.6	21.6
87.5°	1.6	1.6	2.2	2.2	2.2	2.7	2.7	2.7	3.2	4.9	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-31SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1804.6	1803.0	1803.0	1809.4	1807.8
5°	1801.3	1799.7	1799.2	1806.2	1803.0
7.5°	1798.6	1792.7	1791.1	1797.6	1794.9
10°	1787.9	1783.5	1786.2	1784.1	1783.0
12.5°	1769.5	1766.8	1755.5	1756.6	1765.7
15°	1736.6	1747.4	1728.0	1745.2	1749.0
17.5°	1676.2	1700.5	1719.3	1729.6	1731.2
20°	1703.2	1711.3	1701.5	1702.1	1708.6
22.5°	1668.1	1671.9	1674.6	1671.3	1685.4
25°	1612.0	1597.4	1628.7	1635.2	1657.8
27.5°	1594.7	1582.9	1597.4	1596.3	1615.2
30°	1580.7	1542.4	1548.9	1559.1	1582.3
32.5°	1560.7	1500.3	1493.8	1516.5	1542.4
35°	1525.7	1468.5	1453.4	1467.9	1506.8
37.5°	1496.0	1424.2	1394.0	1413.5	1464.2
40°	1451.8	1389.7	1342.8	1360.0	1419.9
42.5°	1398.9	1360.0	1287.8	1299.6	1368.1
45°	1345.5	1311.0	1234.3	1240.3	1321.7
47.5°	1291.0	1259.2	1178.8	1179.9	1262.4
50°	1237.6	1195.5	1129.1	1110.3	1199.3
52.5°	1168.0	1129.1	1079.0	1048.2	1139.4
55°	1102.2	1058.5	1021.8	974.3	1071.4
57.5°	1038.0	989.4	964.6	903.6	994.3
60°	950.0	926.8	890.2	831.9	924.7
62.5°	859.9	852.4	815.2	754.7	838.9
65°	754.7	772.5	734.2	682.5	749.9
67.5°	655.5	687.3	645.2	613.4	664.1
70°	549.7	586.4	562.7	551.4	572.9
72.5°	445.6	481.2	483.4	475.3	482.3
75°	344.2	383.6	405.2	392.7	394.4
77.5°	261.1	280.0	303.7	313.4	311.3
80°	161.3	194.2	213.6	233.6	226.6
82.5°	81.5	109.0	132.7	154.3	144.0
85°	34.0	43.7	61.0	80.4	77.1
87.5°	10.3	17.3	18.3	25.9	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)