

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: **2SNLED-LD5-40HL-RW-UNV-L940-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 (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

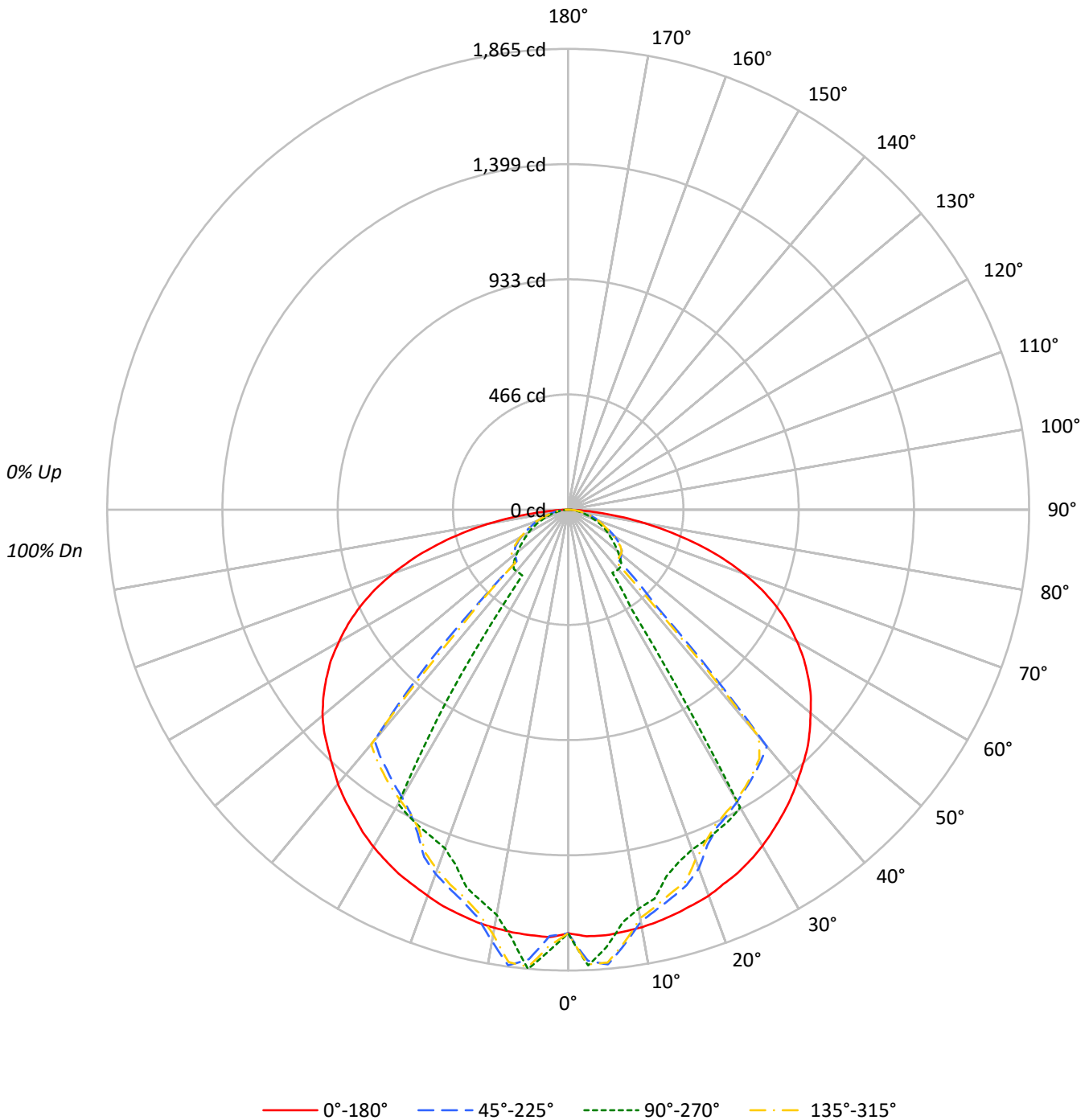
Lumens per Lamp: N/A
Luminaire Lumens: 3433.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27708	27708	27708	27708
5°	27903	27916	27890	29298
10°	27853	25239	27892	25627
15°	27838	23352	27902	24092
20°	27958	22149	27958	22065
25°	28113	21725	28154	21523
30°	28305	21342	28375	21088
35°	28530	4861	28589	5070
40°	28869	5056	29044	5219
45°	29426	5027	29527	5210
50°	29951	4545	30355	4668
55°	30670	4036	30913	4092
60°	31188	3587	31258	3632
65°	31396	3129	31318	3081
70°	30481	2522	30388	2431
75°	27647	1940	27849	1860
80°	21543	1380	22408	1261
85°	10622	827	11217	634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.9
10°-20°	463.8	13.5
20°-30°	686.9	20.0
30°-40°	692.1	20.2
40°-50°	540.7	15.7
50°-60°	417.6	12.2
60°-70°	280.4	8.2
70°-80°	143.0	4.2
80°-90°	39.8	1.2
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°	1319.4	38.4
0°-40°	2011.5	58.6
0°-60°	2969.8	86.5
0°-90°	3433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3433.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1714	1714	1714	1714	1714	
5°	1729	1777	1728	1865	1729	164
15°	1692	1536	1696	1585	1692	478
25°	1622	1432	1625	1418	1622	748
35°	1509	311	1512	324	1509	946
45°	1368	302	1373	314	1368	1055
55°	1186	220	1195	223	1186	1059
65°	931	148	929	145	931	916
75°	546	75	550	72	546	571
85°	98	24	104	18	98	135
90°	0	0	0	0	0	



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CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1727.7	1734.0	1738.7	1741.9	1743.4	1743.4	1744.2	1745.0	1755.2	1759.9	1763.1
5°	1729.3	1735.6	1745.0	1757.6	1768.6	1778.0	1785.8	1796.8	1807.8	1819.6	1823.6
7.5°	1722.2	1730.1	1748.9	1771.7	1792.9	1807.8	1818.1	1825.1	1830.6	1831.4	1835.3
10°	1715.9	1730.1	1756.0	1785.8	1812.6	1830.6	1830.6	1826.7	1832.2	1811.0	1789.8
12.5°	1704.9	1720.6	1756.0	1795.3	1820.4	1827.5	1824.3	1808.6	1776.4	1750.5	1738.7
15°	1691.6	1712.8	1756.8	1800.8	1822.0	1824.3	1794.5	1754.4	1730.1	1714.4	1694.7
17.5°	1676.6	1704.9	1757.6	1801.6	1809.4	1798.4	1741.9	1716.7	1691.6	1654.6	1627.9
20°	1662.5	1690.0	1751.3	1790.6	1795.3	1745.8	1701.8	1675.1	1632.6	1600.4	1588.6
22.5°	1640.5	1672.7	1745.8	1775.6	1757.6	1700.2	1657.8	1615.4	1576.9	1567.4	1553.3
25°	1622.4	1656.2	1733.2	1757.6	1709.6	1658.6	1609.1	1559.6	1541.5	1528.1	1515.6
27.5°	1598.1	1639.7	1716.7	1724.6	1658.6	1613.8	1541.5	1519.5	1503.0	1488.1	1482.6
30°	1571.4	1622.4	1693.9	1679.0	1616.1	1550.1	1496.7	1476.3	1464.5	1448.8	1442.5
32.5°	1540.7	1596.5	1668.8	1626.4	1570.6	1488.1	1453.5	1437.8	1422.1	1410.3	1371.0
35°	1509.3	1573.7	1638.9	1576.1	1515.6	1440.9	1410.3	1396.2	1381.2	1338.0	1297.2
37.5°	1477.1	1548.6	1602.8	1521.9	1442.5	1392.2	1366.3	1350.6	1316.8	1261.8	1241.4
40°	1440.1	1517.9	1556.4	1466.1	1378.9	1342.7	1318.4	1302.7	1226.4	1202.1	1195.8
42.5°	1403.2	1488.1	1499.9	1411.9	1326.2	1290.1	1269.7	1217.8	1165.9	1153.4	1155.7
45°	1367.9	1455.9	1437.8	1334.9	1271.2	1241.4	1206.8	1135.3	1107.8	1114.1	1115.7
47.5°	1325.4	1417.4	1372.6	1257.9	1214.7	1184.8	1107.8	1064.6	1060.7	1069.3	1074.0
50°	1279.9	1374.2	1303.4	1187.9	1153.4	1118.0	1030.8	1008.8	1013.5	1022.2	1027.7
52.5°	1237.4	1325.4	1231.9	1122.7	1092.9	1012.0	953.0	957.0	964.8	975.0	978.2
55°	1185.6	1266.5	1155.7	1056.7	1028.5	922.4	895.7	905.1	913.0	921.6	927.9
57.5°	1131.4	1198.9	1065.4	982.9	937.3	843.0	845.4	851.7	857.2	867.4	358.3
60°	1069.3	1121.9	966.4	914.5	824.2	780.2	782.5	793.5	799.0	446.3	246.7
62.5°	1004.9	1032.4	876.8	836.7	720.5	717.3	728.3	733.0	498.9	235.7	231.0
65°	931.0	925.5	788.8	725.2	649.8	652.9	664.7	641.1	220.8	220.8	219.2
67.5°	849.3	816.3	703.2	600.3	581.4	588.5	601.0	209.8	204.3	205.8	200.3
70°	755.8	709.5	614.4	508.3	514.6	521.7	202.7	190.1	187.8	183.8	172.8
72.5°	656.8	593.2	502.8	441.6	445.5	279.7	177.6	171.3	163.4	155.6	143.8
75°	546.0	463.6	369.3	369.3	374.8	159.5	154.8	144.6	135.9	125.7	118.6
77.5°	428.2	356.7	286.8	297.8	145.4	133.6	124.9	113.9	106.9	100.6	96.6
80°	313.5	249.1	216.1	193.3	113.1	101.4	92.7	86.4	83.3	79.4	74.6
82.5°	205.8	150.1	150.1	91.1	79.4	69.9	67.6	62.9	59.7	57.4	55.0
85°	98.2	87.2	66.0	55.8	49.5	44.8	43.2	40.9	40.9	40.1	39.3
87.5°	36.1	39.3	29.1	28.3	26.7	25.9	26.7	26.7	27.5	26.7	25.9
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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CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1770.9	1777.2	1781.9	1789.8	1800.0	1808.6	1816.5	1827.5	1844.8	1849.5	1853.4
5°	1823.6	1825.9	1831.4	1837.7	1839.3	1843.2	1842.4	1847.1	1849.5	1855.0	1843.2
7.5°	1826.7	1814.1	1799.2	1785.8	1776.4	1767.8	1762.3	1770.9	1775.6	1779.6	1767.8
10°	1760.7	1745.8	1737.1	1729.3	1719.9	1706.5	1688.4	1692.4	1690.8	1690.8	1686.9
12.5°	1719.1	1697.9	1675.9	1656.2	1647.6	1646.8	1647.6	1656.2	1656.2	1655.4	1650.7
15°	1653.9	1633.4	1622.4	1617.7	1617.7	1615.4	1615.4	1624.8	1622.4	1622.4	1620.1
17.5°	1610.6	1596.5	1588.6	1583.1	1580.8	1584.7	1589.4	1593.4	1594.1	1591.0	1578.4
20°	1575.3	1561.9	1552.5	1554.1	1553.3	1555.6	1558.0	1544.6	1528.1	1506.1	1495.9
22.5°	1538.4	1528.1	1521.1	1521.1	1511.6	1496.7	1474.7	1470.0	1467.6	1457.4	1448.8
25°	1503.0	1491.2	1481.0	1449.6	1429.9	1432.3	1428.4	1420.5	1419.7	1418.9	1422.1
27.5°	1467.6	1437.0	1397.7	1393.0	1385.2	1384.4	1389.1	1393.0	1393.0	1396.2	1400.1
30°	1394.6	1359.2	1352.2	1343.5	1346.7	1357.7	1360.0	1365.5	1367.1	1372.6	1375.7
32.5°	1327.8	1312.1	1305.8	1309.7	1319.9	1329.4	1334.9	1337.2	1341.2	1345.9	1349.8
35°	1273.6	1268.9	1274.4	1283.0	1293.2	1301.1	1305.8	1310.5	1314.4	1318.4	1321.5
37.5°	1233.5	1236.7	1244.5	1255.5	1265.7	1272.0	1275.9	1281.4	1286.9	1291.7	1272.8
40°	1195.8	1203.7	1212.3	1224.1	1232.7	1239.0	1242.9	1250.0	1202.9	544.5	298.6
42.5°	1162.8	1171.4	1177.7	1187.2	1196.6	1201.3	1166.7	520.9	294.6	293.1	297.0
45°	1122.7	1129.8	1140.0	1147.1	1155.7	759.0	289.9	293.1	288.3	291.5	293.1
47.5°	1081.9	1092.9	1098.4	1048.1	311.9	288.3	285.2	288.3	285.2	289.1	286.8
50°	1035.5	1048.9	746.4	282.1	279.7	278.1	281.3	279.7	282.1	285.2	278.9
52.5°	988.4	612.0	273.4	271.8	273.4	271.8	277.3	273.4	274.2	271.1	263.2
55°	334.7	264.8	262.4	261.6	266.3	266.3	266.3	260.1	256.1	248.3	242.8
57.5°	256.1	256.1	255.3	256.1	254.6	253.0	245.9	240.4	234.9	223.9	220.8
60°	242.8	242.8	242.8	242.8	235.7	232.6	221.6	216.8	207.4	201.9	198.8
62.5°	231.8	230.2	223.1	220.8	212.9	204.3	198.0	193.3	183.8	180.7	178.3
65°	216.1	210.6	201.9	192.5	188.6	179.1	176.0	168.9	164.2	161.8	160.3
67.5°	190.1	182.3	175.2	168.9	161.8	158.7	154.8	149.3	146.1	144.6	143.0
70°	162.6	157.1	150.1	146.1	141.4	139.1	133.6	132.0	129.6	127.3	124.9
72.5°	135.9	132.8	129.6	124.1	122.6	121.0	115.5	112.4	109.2	106.1	104.5
75°	113.9	111.6	110.0	105.3	102.9	98.2	94.3	91.9	89.6	87.2	85.6
77.5°	93.5	91.9	87.2	84.1	82.5	78.6	77.0	77.8	76.2	73.1	71.5
80°	73.1	71.5	67.6	67.6	66.0	64.4	62.9	61.3	59.7	57.4	55.8
82.5°	55.8	54.2	52.6	51.1	49.5	48.7	47.9	46.4	44.8	43.2	42.4
85°	39.3	38.5	37.7	36.9	36.1	35.4	34.6	33.0	31.4	30.6	29.9
87.5°	26.7	25.9	25.1	24.4	23.6	22.8	22.0	21.2	19.6	18.9	18.1
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1853.4	1857.3	1853.4	1844.8	1839.3	1836.9	1841.6	1841.6	1844.8	1848.7	1849.5
5°	1824.3	1814.9	1803.9	1792.9	1787.4	1784.3	1775.6	1777.2	1779.6	1781.1	1782.7
7.5°	1752.1	1739.5	1724.6	1710.4	1704.9	1700.2	1690.0	1690.0	1690.0	1690.8	1695.5
10°	1678.2	1672.7	1666.4	1657.0	1649.9	1647.6	1638.9	1641.3	1639.7	1642.1	1647.6
12.5°	1643.6	1637.4	1631.9	1622.4	1614.6	1611.4	1607.5	1609.9	1609.1	1613.0	1617.7
15°	1612.2	1609.1	1602.8	1595.7	1588.6	1582.4	1568.2	1563.5	1560.4	1556.4	1561.9
17.5°	1560.4	1538.4	1523.4	1512.4	1504.6	1499.1	1495.1	1495.1	1497.5	1499.9	1504.6
20°	1489.6	1483.4	1476.3	1464.5	1456.6	1453.5	1451.1	1451.1	1455.1	1458.2	1466.9
22.5°	1440.9	1440.1	1437.8	1432.3	1428.4	1428.4	1429.2	1430.7	1436.2	1440.9	1449.6
25°	1418.2	1421.3	1419.7	1416.6	1414.2	1415.0	1413.4	1415.0	1420.5	1425.2	1432.3
27.5°	1400.1	1404.8	1403.2	1398.5	1394.6	1396.2	1398.5	1396.9	1401.7	1407.2	1412.7
30°	1375.7	1376.5	1379.7	1374.2	1372.6	1374.9	1375.7	1377.3	1382.0	1385.9	1390.7
32.5°	1348.2	1354.5	1353.7	1348.2	1348.2	1350.6	1351.4	1298.7	1200.5	1034.0	988.4
35°	1321.5	1328.6	1316.8	1110.2	768.4	410.1	316.6	305.6	308.0	309.6	311.1
37.5°	977.4	463.6	295.4	297.8	300.1	302.5	304.8	307.2	309.6	311.9	312.7
40°	293.8	293.1	295.4	298.6	300.9	302.5	305.6	308.0	310.3	312.7	313.5
42.5°	290.7	292.3	294.6	297.8	300.9	304.1	306.4	309.6	311.1	312.7	313.5
45°	289.1	292.3	295.4	297.8	300.1	301.7	303.3	304.1	303.3	303.3	304.8
47.5°	286.8	289.9	290.7	289.9	290.7	289.9	289.9	289.9	287.6	286.8	286.8
50°	278.1	278.1	276.6	273.4	272.6	271.8	270.3	269.5	266.3	265.6	265.6
52.5°	260.1	259.3	256.9	253.0	251.4	249.8	249.1	248.3	245.1	243.6	244.3
55°	238.8	237.3	234.9	230.2	229.4	227.8	227.1	226.3	223.1	224.7	222.3
57.5°	219.2	216.1	212.9	212.1	209.0	208.2	207.4	206.6	204.3	205.1	203.5
60°	195.6	194.8	193.3	190.1	190.1	189.3	189.3	187.8	186.2	185.4	185.4
62.5°	178.3	176.0	174.4	174.4	172.1	172.1	172.1	170.5	168.9	169.7	168.9
65°	159.5	158.7	157.9	156.4	156.4	155.6	155.6	154.0	151.6	152.4	150.9
67.5°	143.8	142.2	140.6	139.9	136.7	135.1	134.4	133.6	130.4	131.2	129.6
70°	124.1	121.8	120.2	118.6	116.3	114.7	114.7	113.1	110.8	111.6	110.0
72.5°	103.7	102.1	100.6	99.8	97.4	96.6	95.9	95.1	92.7	93.5	92.7
75°	86.4	86.4	85.6	84.9	82.5	80.1	78.6	77.8	76.2	77.0	75.4
77.5°	71.5	69.9	68.4	68.4	66.0	64.4	62.9	62.9	62.9	62.1	61.3
80°	55.8	54.2	54.2	53.4	51.9	50.3	49.5	49.5	48.7	48.7	47.9
82.5°	42.4	40.9	40.1	40.1	38.5	37.7	36.9	36.1	36.1	36.1	35.4
85°	29.9	28.3	27.5	27.5	25.9	25.1	25.1	24.4	24.4	23.6	23.6
87.5°	18.1	17.3	16.5	16.5	14.9	14.1	14.1	14.1	13.4	13.4	12.6
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1849.5	1849.5	1844.0	1845.6	1843.2	1846.3	1842.4	1842.4	1847.1	1847.1	1850.3
5°	1783.5	1779.6	1778.8	1777.2	1769.3	1772.5	1768.6	1764.6	1770.1	1770.1	1777.2
7.5°	1693.1	1686.1	1689.2	1684.5	1679.8	1672.7	1675.1	1671.9	1675.9	1681.4	1688.4
10°	1646.8	1640.5	1644.4	1639.7	1642.1	1631.9	1632.6	1633.4	1637.4	1638.9	1645.2
12.5°	1616.9	1615.4	1613.8	1612.2	1613.8	1608.3	1605.1	1605.9	1607.5	1608.3	1613.0
15°	1554.1	1543.9	1547.0	1536.0	1536.8	1537.6	1531.3	1537.6	1536.8	1547.0	1556.4
17.5°	1503.0	1503.0	1497.5	1492.8	1489.6	1488.9	1484.1	1487.3	1484.1	1490.4	1492.8
20°	1467.6	1466.9	1466.1	1463.7	1455.9	1456.6	1459.0	1451.9	1451.1	1450.4	1455.1
22.5°	1451.1	1451.9	1448.8	1448.8	1441.7	1443.3	1444.1	1436.2	1437.0	1434.7	1437.0
25°	1433.9	1435.4	1431.5	1431.5	1429.9	1429.2	1425.2	1426.8	1422.1	1418.2	1422.1
27.5°	1413.4	1416.6	1413.4	1415.0	1411.9	1410.3	1407.9	1406.4	1401.7	1400.9	1403.2
30°	1394.6	1396.2	1395.4	1391.4	1390.7	1385.9	1388.3	1383.6	1378.9	1379.7	1381.2
32.5°	715.0	682.8	526.4	475.3	470.6	487.9	578.3	704.0	912.2	1114.1	1259.4
35°	311.9	311.9	311.9	311.1	311.1	310.3	309.6	308.8	308.0	307.2	306.4
37.5°	313.5	313.5	313.5	313.5	312.7	311.9	311.9	310.3	309.6	308.8	308.0
40°	314.3	315.1	315.1	315.1	314.3	314.3	313.5	311.9	311.1	309.6	308.0
42.5°	313.5	314.3	314.3	313.5	313.5	312.7	312.7	311.9	311.1	310.3	309.6
45°	303.3	304.1	302.5	302.5	301.7	301.7	301.7	301.7	301.7	302.5	302.5
47.5°	285.2	285.2	284.4	283.6	283.6	282.8	283.6	282.8	284.4	285.2	286.8
50°	264.0	264.0	262.4	261.6	261.6	261.6	261.6	262.4	263.2	264.8	266.3
52.5°	242.0	242.0	241.2	240.4	239.6	239.6	242.0	241.2	242.0	242.8	245.1
55°	220.8	221.6	220.0	220.0	219.2	219.2	219.2	220.0	220.8	221.6	223.9
57.5°	202.7	202.7	201.1	201.1	201.1	200.3	202.7	201.1	201.9	202.7	204.3
60°	184.6	183.8	183.8	183.1	183.1	183.1	184.6	183.8	183.8	184.6	186.2
62.5°	168.1	168.1	167.3	167.3	166.6	166.6	168.1	167.3	167.3	168.1	168.9
65°	149.3	149.3	148.5	147.7	150.1	147.7	150.1	148.5	150.1	150.9	152.4
67.5°	128.1	128.1	128.1	127.3	127.3	128.9	129.6	128.1	128.9	130.4	131.2
70°	109.2	109.2	108.4	108.4	108.4	110.0	110.8	109.2	110.0	110.8	112.4
72.5°	92.7	91.1	91.1	90.4	91.9	91.9	92.7	91.9	92.7	92.7	94.3
75°	76.2	74.6	74.6	74.6	76.2	75.4	76.2	75.4	76.2	76.2	77.0
77.5°	61.3	60.5	59.7	59.7	61.3	61.3	61.3	60.5	61.3	62.1	62.9
80°	47.9	47.1	46.4	46.4	47.9	47.9	47.9	48.7	47.9	48.7	49.5
82.5°	35.4	34.6	33.8	35.4	35.4	35.4	35.4	36.1	35.4	36.1	36.9
85°	23.6	22.8	22.0	23.6	23.6	23.6	23.6	24.4	23.6	24.4	25.1
87.5°	12.6	11.8	11.8	12.6	12.6	12.6	13.4	13.4	13.4	14.1	14.1
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1855.0	1857.3	1856.6	1851.8	1847.1	1841.6	1837.7	1838.5	1846.3	1848.7	1841.6
5°	1777.2	1792.1	1792.1	1802.3	1796.8	1792.1	1795.3	1812.6	1821.2	1834.6	1839.3
7.5°	1697.1	1704.1	1703.4	1713.6	1712.0	1712.0	1714.4	1737.1	1748.1	1759.1	1762.3
10°	1652.3	1659.4	1658.6	1659.4	1657.0	1651.5	1651.5	1661.7	1671.1	1676.6	1678.2
12.5°	1620.1	1624.0	1623.2	1623.2	1621.6	1616.9	1616.1	1624.8	1635.0	1642.1	1642.9
15°	1572.1	1583.1	1585.5	1595.7	1593.4	1587.1	1588.6	1595.7	1602.0	1608.3	1605.9
17.5°	1500.6	1506.1	1506.9	1510.9	1509.3	1509.3	1518.7	1544.6	1561.9	1576.9	1578.4
20°	1459.8	1463.7	1462.1	1470.8	1466.9	1466.1	1468.4	1479.4	1487.3	1494.4	1506.9
22.5°	1440.1	1443.3	1440.9	1441.7	1434.7	1428.4	1426.8	1435.4	1444.1	1453.5	1453.5
25°	1423.7	1426.0	1425.2	1423.7	1418.2	1409.5	1407.9	1409.5	1412.7	1413.4	1407.9
27.5°	1404.0	1405.6	1405.6	1406.4	1399.3	1391.4	1389.9	1388.3	1391.4	1390.7	1382.0
30°	1383.6	1381.2	1382.0	1382.8	1376.5	1369.4	1366.3	1365.5	1368.7	1367.9	1359.2
32.5°	1334.9	1352.9	1354.5	1356.1	1350.6	1344.3	1341.2	1338.8	1340.4	1339.6	1331.7
35°	305.6	311.1	381.1	862.7	1171.4	1297.2	1310.5	1307.4	1308.2	1308.2	1301.9
37.5°	306.4	305.6	304.8	302.5	300.1	298.6	516.2	1100.7	1275.2	1275.9	1270.4
40°	306.4	305.6	304.8	303.3	300.1	297.8	293.8	290.7	297.8	655.3	1198.9
42.5°	308.0	306.4	304.8	303.3	300.1	297.0	293.8	289.9	292.3	290.7	286.8
45°	303.3	302.5	302.5	301.7	300.1	297.0	293.1	288.3	286.0	288.3	284.4
47.5°	288.3	289.1	291.5	292.3	292.3	293.1	290.7	287.6	283.6	286.0	281.3
50°	267.9	269.5	270.3	274.2	275.8	278.9	279.7	279.7	278.9	282.1	278.9
52.5°	245.9	247.5	251.4	253.0	254.6	259.3	260.8	263.2	264.8	269.5	272.6
55°	224.7	225.5	227.1	230.2	232.6	236.5	238.8	241.2	245.1	247.5	256.9
57.5°	205.1	205.8	209.0	209.8	211.3	214.5	216.8	220.0	223.1	224.7	235.7
60°	186.2	187.0	189.3	190.1	190.9	194.1	196.4	198.8	201.1	202.7	210.6
62.5°	169.7	169.7	172.1	172.1	172.8	175.2	176.8	178.3	180.7	181.5	185.4
65°	153.2	154.0	155.6	155.6	156.4	157.9	158.7	159.5	161.8	161.8	165.0
67.5°	132.8	133.6	135.9	137.5	138.3	141.4	142.2	143.0	144.6	145.4	146.9
70°	113.1	113.9	116.3	117.1	117.9	120.2	121.8	124.1	126.5	128.9	130.4
72.5°	95.1	95.9	98.2	98.2	100.6	101.4	102.9	103.7	106.1	107.6	110.0
75°	77.8	78.6	80.9	80.9	83.3	84.1	84.9	85.6	87.2	88.8	90.4
77.5°	63.6	63.6	66.8	68.4	69.9	69.9	70.7	70.7	70.7	71.5	73.1
80°	50.3	50.3	52.6	54.2	55.8	55.8	56.6	57.4	58.1	58.1	58.9
82.5°	37.7	37.7	40.1	40.9	42.4	42.4	42.4	43.2	44.0	43.2	44.8
85°	25.9	25.9	27.5	28.3	29.9	29.9	29.9	30.6	31.4	30.6	31.4
87.5°	14.9	15.7	16.5	17.3	18.1	18.9	18.9	18.9	19.6	19.6	20.4
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1833.8	1824.3	1823.6	1812.6	1809.4	1810.2	1801.6	1798.4	1784.3	1781.1	1766.2
5°	1840.8	1845.6	1843.2	1842.4	1844.8	1843.2	1836.9	1833.8	1831.4	1825.1	1812.6
7.5°	1763.1	1766.2	1768.6	1778.8	1787.4	1802.3	1818.1	1828.3	1836.1	1837.7	1827.5
10°	1683.7	1698.6	1708.9	1724.6	1737.1	1745.8	1755.2	1763.8	1786.6	1809.4	1822.8
12.5°	1642.9	1646.8	1646.0	1654.6	1663.3	1686.1	1708.1	1720.6	1737.9	1748.1	1772.5
15°	1608.3	1609.1	1611.4	1617.7	1622.4	1630.3	1640.5	1659.4	1693.9	1709.6	1723.0
17.5°	1576.9	1576.9	1578.4	1583.9	1590.2	1597.3	1603.6	1611.4	1628.7	1654.6	1687.6
20°	1526.6	1548.6	1550.9	1550.1	1553.3	1566.6	1568.2	1582.4	1591.0	1601.2	1633.4
22.5°	1451.9	1465.3	1484.1	1513.2	1524.2	1530.5	1535.2	1541.5	1554.9	1566.6	1580.0
25°	1411.1	1419.7	1425.2	1433.9	1456.6	1493.6	1500.6	1507.7	1516.4	1525.0	1541.5
27.5°	1374.9	1374.2	1378.1	1385.9	1392.2	1411.9	1446.4	1473.9	1475.5	1488.1	1502.2
30°	1349.0	1344.3	1338.8	1337.2	1345.9	1356.1	1366.3	1409.5	1439.4	1445.6	1460.6
32.5°	1324.7	1316.8	1308.9	1302.7	1297.2	1305.8	1312.1	1330.9	1369.4	1405.6	1413.4
35°	1294.8	1286.9	1277.5	1270.4	1261.8	1261.0	1260.2	1278.3	1290.9	1334.1	1371.8
37.5°	1264.2	1255.5	1247.7	1239.8	1231.2	1224.9	1220.9	1225.7	1237.4	1256.3	1319.2
40°	1231.9	1221.7	1213.9	1207.6	1195.8	1191.1	1183.2	1180.1	1180.9	1197.4	1230.4
42.5°	736.2	1173.8	1177.7	1170.7	1160.4	1154.2	1145.5	1141.6	1133.7	1141.6	1160.4
45°	283.6	286.8	858.7	1134.5	1121.9	1114.1	1106.2	1102.3	1093.7	1087.4	1104.7
47.5°	278.1	281.3	275.0	389.7	1070.9	1073.2	1063.8	1059.9	1051.2	1046.5	1041.8
50°	274.2	276.6	271.8	273.4	267.9	981.3	1020.6	1015.9	1006.5	1001.0	991.5
52.5°	270.3	270.3	267.1	263.2	261.6	262.4	825.7	971.1	960.1	954.6	942.0
55°	257.7	259.3	262.4	256.1	254.6	253.8	251.4	786.5	909.0	902.7	891.7
57.5°	238.8	242.0	250.6	249.1	249.1	242.8	241.2	241.2	729.9	850.1	839.1
60°	216.8	220.0	229.4	232.6	234.9	233.3	231.8	231.0	227.8	769.2	783.3
62.5°	194.1	197.2	200.3	210.6	213.7	217.6	222.3	220.0	216.8	216.8	724.4
65°	169.7	174.4	176.0	185.4	189.3	196.4	200.3	205.8	204.3	203.5	207.4
67.5°	148.5	154.0	154.8	158.7	165.8	168.9	173.6	183.8	188.6	190.1	191.7
70°	130.4	133.6	135.9	137.5	142.2	143.0	151.6	158.7	165.8	173.6	176.0
72.5°	112.4	114.7	119.4	117.9	119.4	122.6	127.3	132.0	139.1	150.1	157.1
75°	91.9	93.5	96.6	98.2	101.4	103.7	106.9	110.8	117.1	122.6	132.0
77.5°	73.9	74.6	77.0	77.8	80.9	83.3	88.8	91.1	95.1	99.0	104.5
80°	59.7	59.7	60.5	60.5	62.9	65.2	69.1	71.5	76.2	79.4	79.4
82.5°	45.6	45.6	47.9	47.9	49.5	49.5	51.9	51.9	54.2	55.8	57.4
85°	32.2	33.0	34.6	33.8	35.4	34.6	36.1	37.7	38.5	37.7	36.9
87.5°	21.2	21.2	22.8	22.0	22.8	22.8	24.4	24.4	25.1	25.1	24.4
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1760.7	1748.9	1741.9	1733.2	1730.9	1728.5	1731.6	1731.6	1726.9	1723.0	1715.9
5°	1801.6	1789.0	1775.6	1761.5	1748.1	1734.0	1728.5	1727.7	1719.1	1714.4	1712.0
7.5°	1822.8	1816.5	1801.6	1781.9	1761.5	1736.4	1725.4	1719.1	1710.4	1708.9	1708.9
10°	1825.1	1818.1	1810.2	1796.1	1772.5	1739.5	1718.3	1705.7	1697.9	1703.4	1713.6
12.5°	1802.3	1815.7	1808.6	1799.2	1780.3	1740.3	1709.6	1690.8	1688.4	1702.6	1729.3
15°	1744.2	1783.5	1803.1	1793.7	1778.8	1738.7	1695.5	1673.5	1673.5	1702.6	1737.1
17.5°	1700.2	1730.9	1778.8	1786.6	1769.3	1735.6	1682.1	1656.2	1663.3	1705.7	1742.6
20°	1664.1	1682.9	1729.3	1773.3	1756.8	1728.5	1662.5	1635.8	1649.9	1701.0	1750.5
22.5°	1607.5	1645.2	1673.5	1738.7	1744.2	1715.1	1642.9	1610.6	1638.9	1701.0	1746.6
25°	1552.5	1598.1	1627.9	1691.6	1725.4	1698.6	1624.8	1583.9	1627.1	1698.6	1743.4
27.5°	1514.0	1535.2	1589.4	1635.0	1697.1	1676.6	1600.4	1554.9	1612.2	1686.1	1725.4
30°	1473.1	1487.3	1540.7	1583.9	1659.4	1651.5	1575.3	1522.6	1593.4	1674.3	1678.2
32.5°	1428.4	1444.1	1471.6	1534.4	1606.7	1627.9	1547.0	1490.4	1572.9	1656.2	1623.2
35°	1382.8	1394.6	1416.6	1484.1	1545.4	1592.6	1512.4	1453.5	1558.8	1628.7	1570.6
37.5°	1337.2	1349.8	1368.7	1425.2	1481.0	1559.6	1482.6	1416.6	1532.9	1580.0	1515.6
40°	1294.0	1301.1	1320.7	1356.1	1427.6	1525.8	1448.8	1378.1	1506.1	1517.9	1440.9
42.5°	1214.7	1250.0	1268.1	1296.4	1367.1	1479.4	1409.5	1337.2	1476.3	1455.9	1366.3
45°	1129.0	1206.0	1213.9	1242.2	1313.7	1429.9	1372.6	1297.2	1448.0	1402.4	1295.6
47.5°	1059.1	1114.9	1160.4	1184.0	1250.0	1371.8	1338.0	1263.4	1405.6	1334.9	1226.4
50°	997.0	1026.9	1109.4	1126.7	1173.8	1301.9	1297.2	1224.1	1346.7	1250.0	1158.9
52.5°	936.5	957.7	1032.4	1069.3	1107.8	1226.4	1248.4	1185.6	1282.2	1165.2	1090.5
55°	883.9	891.0	931.8	1009.6	1044.2	1150.2	1195.0	1140.8	1200.5	1084.2	1024.5
57.5°	829.7	823.4	853.2	953.0	978.2	1072.5	1138.4	1095.2	1134.5	1001.7	956.2
60°	773.1	764.5	777.0	843.0	908.2	995.5	1071.7	1045.0	1054.4	920.0	880.0
62.5°	714.2	705.5	701.6	743.3	839.9	916.1	1004.1	989.2	956.2	845.4	785.7
65°	652.9	644.3	638.0	654.5	764.5	813.2	928.7	924.7	848.5	766.8	661.5
67.5°	198.8	586.1	572.8	572.0	644.3	719.7	847.0	840.7	740.1	682.8	569.6
70°	179.1	475.3	505.2	498.1	529.5	624.6	753.5	748.8	634.8	547.6	503.6
72.5°	164.2	168.1	446.3	438.4	445.5	531.1	656.0	643.5	538.2	432.1	435.3
75°	140.6	147.7	154.0	370.1	360.6	440.0	550.0	530.3	443.9	356.7	363.8
77.5°	114.7	123.4	128.1	269.5	291.5	313.5	439.2	413.3	305.6	285.2	135.9
80°	85.6	92.7	100.6	107.6	221.6	219.2	326.1	300.1	212.9	177.6	106.1
82.5°	62.9	65.2	69.9	77.8	88.0	146.9	209.8	184.6	147.7	80.9	73.1
85°	39.3	42.4	44.8	47.1	53.4	88.0	103.7	82.5	62.1	49.5	46.4
87.5°	25.1	25.1	24.4	25.1	25.9	31.4	35.4	33.8	26.7	25.1	25.1
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1708.1	1697.1	1697.1	1693.9	1696.3	1696.3	1695.5	1696.3	1701.8	1704.9	1710.4
5°	1707.3	1704.1	1711.2	1719.9	1730.1	1742.6	1745.8	1756.8	1767.0	1780.3	1794.5
7.5°	1717.5	1728.5	1741.9	1756.0	1776.4	1791.3	1804.7	1818.1	1827.5	1840.1	1847.9
10°	1732.4	1754.4	1777.2	1795.3	1817.3	1829.8	1838.5	1840.1	1826.7	1805.5	1788.2
12.5°	1753.6	1779.6	1800.8	1818.1	1828.3	1823.6	1798.4	1772.5	1757.6	1735.6	1704.9
15°	1771.7	1795.3	1817.3	1810.2	1782.7	1756.8	1737.1	1706.5	1676.6	1656.2	1642.9
17.5°	1779.6	1802.3	1794.5	1757.6	1731.6	1701.8	1661.7	1638.1	1618.5	1602.8	1594.9
20°	1784.3	1780.3	1737.9	1711.2	1660.9	1633.4	1607.5	1585.5	1570.6	1562.7	1561.1
22.5°	1771.7	1723.8	1687.6	1639.7	1602.8	1580.0	1559.6	1541.5	1531.3	1525.0	1521.1
25°	1730.1	1674.3	1620.9	1583.1	1551.7	1532.1	1516.4	1501.4	1488.9	1485.7	1477.9
27.5°	1671.9	1626.4	1555.6	1526.6	1499.1	1489.6	1472.4	1457.4	1446.4	1437.0	1411.9
30°	1624.0	1551.7	1500.6	1473.9	1457.4	1446.4	1426.8	1411.1	1392.2	1357.7	1343.5
32.5°	1565.1	1493.6	1444.9	1429.9	1409.5	1400.1	1378.1	1343.5	1314.4	1300.3	1299.5
35°	1488.9	1429.9	1394.6	1381.2	1364.7	1349.0	1303.4	1272.0	1257.9	1259.4	1271.2
37.5°	1425.2	1372.6	1349.8	1330.9	1312.1	1272.0	1233.5	1218.6	1222.5	1230.4	1235.9
40°	1360.8	1320.7	1294.8	1279.9	1237.4	1198.2	1177.7	1183.2	1190.3	1195.8	1202.9
42.5°	1297.9	1269.7	1243.7	1214.7	1156.5	1135.3	1140.0	1147.1	1153.4	1161.2	1168.3
45°	1238.2	1213.1	1183.2	1117.2	1088.2	1093.7	1100.7	1106.2	1115.7	1121.2	1128.2
47.5°	1181.7	1154.9	1102.3	1044.2	1041.0	1052.0	1058.3	1065.4	1072.5	1058.3	583.8
50°	1118.0	1090.5	1010.4	988.4	995.5	1005.7	1013.5	1020.6	909.0	361.4	278.1
52.5°	1055.2	985.2	934.2	940.5	947.5	959.3	964.8	716.5	285.2	271.8	272.6
55°	985.2	895.7	880.7	888.6	894.9	906.7	601.0	263.2	261.6	260.8	267.1
57.5°	875.2	821.0	827.3	835.2	841.5	594.0	256.1	254.6	255.3	256.1	256.9
60°	777.0	765.3	772.3	779.4	551.5	247.5	242.8	243.6	246.7	244.3	238.1
62.5°	699.3	708.7	715.8	627.0	234.9	232.6	234.9	232.6	227.1	223.1	215.3
65°	639.5	649.0	654.5	220.8	220.0	223.1	220.8	212.9	204.3	193.3	190.9
67.5°	576.7	586.1	209.8	204.3	207.4	203.5	194.1	184.6	178.3	168.9	165.0
70°	511.5	219.2	190.1	189.3	183.8	177.6	167.3	157.9	150.1	146.1	142.2
72.5°	369.3	173.6	171.3	165.0	155.6	146.9	138.3	132.8	128.9	126.5	124.1
75°	154.0	150.9	143.8	132.8	123.4	119.4	113.1	109.2	107.6	102.9	101.4
77.5°	128.9	122.6	112.4	104.5	99.0	96.6	91.9	87.2	84.9	84.1	80.9
80°	99.0	90.4	85.6	81.7	80.1	74.6	69.1	66.8	65.2	64.4	62.1
82.5°	67.6	64.4	61.3	55.8	55.8	53.4	51.1	49.5	47.9	47.9	46.4
85°	44.0	41.6	40.9	38.5	38.5	36.9	36.1	35.4	34.6	33.8	33.0
87.5°	25.1	25.1	25.9	25.1	25.1	24.4	23.6	22.8	22.0	22.0	20.4
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1717.5	1725.4	1726.9	1753.6	1768.6	1767.8	1763.1	1777.2	1768.6	1763.8	1768.6
5°	1808.6	1818.1	1825.9	1855.0	1865.2	1869.9	1869.1	1877.0	1870.7	1865.2	1865.2
7.5°	1853.4	1856.6	1859.7	1852.6	1847.9	1840.1	1828.3	1811.0	1802.3	1792.9	1781.1
10°	1779.6	1769.3	1773.3	1759.1	1747.4	1738.7	1727.7	1713.6	1701.8	1693.1	1679.8
12.5°	1689.2	1688.4	1690.0	1692.4	1680.6	1673.5	1664.9	1654.6	1646.0	1636.6	1625.6
15°	1634.2	1635.0	1641.3	1638.9	1635.0	1631.1	1621.6	1618.5	1610.6	1600.4	1594.1
17.5°	1594.9	1598.9	1605.1	1602.0	1595.7	1591.8	1584.7	1577.6	1570.6	1562.7	1553.3
20°	1560.4	1564.3	1568.2	1564.3	1552.5	1547.0	1537.6	1515.6	1499.9	1484.1	1470.0
22.5°	1522.6	1525.0	1521.9	1509.3	1479.4	1465.3	1454.3	1448.0	1434.7	1426.0	1417.4
25°	1475.5	1462.1	1441.7	1427.6	1415.8	1409.5	1404.8	1404.0	1402.4	1400.9	1396.9
27.5°	1398.5	1393.8	1382.8	1377.3	1378.1	1380.4	1381.2	1383.6	1381.2	1378.1	1374.9
30°	1341.2	1343.5	1344.3	1345.9	1349.8	1352.2	1352.9	1356.1	1354.5	1352.2	1350.6
32.5°	1305.0	1310.5	1313.7	1318.4	1320.7	1324.7	1324.7	1329.4	1324.7	1323.9	1322.3
35°	1275.2	1279.9	1281.4	1288.5	1290.9	1294.8	1294.8	1298.7	1294.8	1254.7	990.7
37.5°	1245.3	1250.0	1253.2	1259.4	1260.2	1262.6	1165.2	852.5	550.0	425.8	325.3
40°	1209.9	1215.4	1218.6	1220.9	858.0	544.5	374.8	304.8	304.8	307.2	309.6
42.5°	1172.2	1176.2	819.5	476.9	297.0	296.2	298.6	300.9	303.3	306.4	309.6
45°	921.6	465.1	295.4	288.3	290.7	293.8	297.0	300.1	304.1	307.2	308.8
47.5°	302.5	283.6	287.6	284.4	288.3	292.3	295.4	298.6	299.3	300.1	299.3
50°	279.7	279.7	282.1	282.1	285.2	286.8	286.8	286.8	283.6	282.8	280.5
52.5°	270.3	276.6	273.4	275.0	273.4	271.1	268.7	266.3	261.6	260.1	256.9
55°	265.6	267.9	260.1	257.7	254.6	248.3	245.1	242.0	238.1	236.5	232.6
57.5°	254.6	249.1	240.4	236.5	231.0	224.7	221.6	219.2	215.3	213.7	211.3
60°	234.1	223.1	217.6	212.9	206.6	201.1	198.8	197.2	194.1	193.3	190.9
62.5°	209.0	199.6	194.8	188.6	183.8	180.7	178.3	177.6	174.4	174.4	172.8
65°	181.5	176.8	172.8	166.6	164.2	161.1	160.3	159.5	157.9	157.1	155.6
67.5°	159.5	156.4	150.9	147.7	146.1	143.8	142.2	140.6	137.5	135.9	133.6
70°	139.9	137.5	132.0	129.6	126.5	122.6	120.2	118.6	116.3	114.7	112.4
72.5°	121.0	113.9	110.0	107.6	105.3	101.4	100.6	99.0	96.6	95.9	93.5
75°	97.4	91.9	89.6	88.0	85.6	83.3	83.3	83.3	80.9	80.1	79.4
77.5°	77.8	74.6	73.1	71.5	70.7	69.1	66.8	66.0	63.6	63.6	62.9
80°	59.7	58.1	56.6	55.8	55.0	53.4	51.9	51.1	48.7	48.7	47.9
82.5°	44.0	43.2	42.4	41.6	40.9	40.1	37.7	36.9	35.4	35.4	34.6
85°	31.4	30.6	29.1	28.3	28.3	27.5	25.1	24.4	22.8	22.8	22.8
87.5°	19.6	18.9	18.1	17.3	16.5	15.7	14.1	13.4	13.4	11.8	11.0
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1759.1	1772.5	1770.9	1780.3	1782.7	1787.4	1789.0	1789.8	1778.0	1787.4	1788.2
5°	1862.8	1865.2	1866.8	1870.7	1874.6	1875.4	1871.5	1866.8	1868.3	1865.2	1857.3
7.5°	1779.6	1767.8	1765.4	1762.3	1760.7	1759.1	1752.1	1758.3	1751.3	1748.1	1737.1
10°	1677.4	1666.4	1665.6	1665.6	1668.0	1667.2	1665.6	1662.5	1668.8	1664.9	1662.5
12.5°	1624.0	1620.1	1622.4	1620.9	1627.1	1628.7	1627.1	1627.1	1625.6	1622.4	1624.0
15°	1591.8	1588.6	1591.0	1588.6	1593.4	1594.1	1590.2	1592.6	1588.6	1584.7	1583.1
17.5°	1549.4	1542.3	1536.8	1528.9	1529.7	1528.1	1523.4	1523.4	1519.5	1509.3	1510.1
20°	1467.6	1460.6	1457.4	1457.4	1461.4	1462.9	1462.1	1463.7	1459.8	1458.2	1451.9
22.5°	1416.6	1415.8	1417.4	1421.3	1427.6	1436.2	1437.0	1437.0	1437.0	1436.2	1428.4
25°	1398.5	1398.5	1400.1	1405.6	1410.3	1416.6	1418.2	1419.7	1418.2	1418.2	1411.1
27.5°	1378.1	1376.5	1379.7	1385.2	1390.7	1395.4	1399.3	1400.1	1397.7	1397.7	1400.1
30°	1352.9	1352.2	1356.1	1361.6	1366.3	1371.0	1374.9	1378.1	1374.9	1374.9	1372.6
32.5°	1327.0	1327.0	1328.6	1295.6	1201.3	1081.9	1084.2	1015.1	967.2	906.7	986.8
35°	828.1	602.6	517.8	438.4	382.6	346.5	345.7	333.9	328.4	324.5	323.7
37.5°	312.7	314.3	317.4	319.0	321.3	322.9	323.7	323.7	323.7	323.7	322.9
40°	311.9	315.1	317.4	319.8	322.1	323.7	323.7	324.5	325.3	325.3	325.3
42.5°	312.7	315.8	319.0	321.3	322.9	323.7	324.5	325.3	325.3	325.3	325.3
45°	311.9	313.5	313.5	314.3	314.3	314.3	315.1	315.1	314.3	313.5	315.1
47.5°	300.1	300.1	297.8	297.0	296.2	294.6	295.4	294.6	293.8	293.1	294.6
50°	279.7	276.6	275.0	273.4	272.6	271.1	271.8	271.1	270.3	268.7	271.1
52.5°	255.3	254.6	251.4	249.8	249.1	249.8	248.3	247.5	246.7	245.9	246.7
55°	231.8	228.6	227.8	226.3	225.5	226.3	225.5	224.7	223.9	223.1	223.9
57.5°	210.6	208.2	207.4	205.8	205.8	205.8	205.8	205.1	204.3	203.5	204.3
60°	190.1	188.6	187.8	187.8	187.0	187.0	187.0	186.2	185.4	185.4	186.2
62.5°	172.8	172.8	170.5	169.7	169.7	170.5	169.7	168.9	168.1	167.3	168.9
65°	154.8	151.6	150.9	149.3	147.7	148.5	147.7	146.9	146.1	145.4	146.9
67.5°	132.8	132.0	128.9	127.3	126.5	127.3	126.5	125.7	124.9	124.1	125.7
70°	111.6	111.6	108.4	107.6	106.9	106.9	106.1	106.1	105.3	104.5	106.1
72.5°	92.7	92.7	91.9	90.4	89.6	88.8	88.0	87.2	87.2	88.0	88.0
75°	77.0	75.4	72.3	73.1	72.3	71.5	71.5	70.7	69.9	71.5	70.7
77.5°	60.5	59.7	57.4	58.1	57.4	56.6	56.6	55.8	55.0	55.8	55.8
80°	45.6	45.6	44.8	44.0	44.0	43.2	42.4	42.4	41.6	42.4	42.4
82.5°	33.0	33.0	32.2	31.4	30.6	30.6	29.9	29.9	29.9	29.9	29.9
85°	21.2	20.4	20.4	18.9	18.9	18.9	18.1	18.1	18.1	18.1	18.1
87.5°	10.2	10.2	9.4	9.4	8.6	7.9	7.9	7.1	7.1	7.9	7.9
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1774.1	1784.3	1775.6	1779.6	1780.3	1793.7	1792.9	1796.1	1790.6	1784.3	1775.6
5°	1864.4	1859.7	1853.4	1868.3	1860.5	1869.9	1873.1	1879.3	1879.3	1878.6	1871.5
7.5°	1748.9	1738.7	1746.6	1752.1	1754.4	1748.1	1760.7	1774.8	1786.6	1793.7	1794.5
10°	1658.6	1661.7	1660.9	1663.3	1668.8	1668.0	1675.9	1683.7	1686.9	1691.6	1693.1
12.5°	1616.1	1615.4	1616.9	1622.4	1625.6	1624.8	1632.6	1637.4	1638.9	1639.7	1638.9
15°	1582.4	1576.9	1580.8	1581.6	1583.9	1583.9	1593.4	1600.4	1603.6	1605.1	1603.6
17.5°	1518.7	1505.4	1517.9	1517.9	1526.6	1525.0	1539.9	1551.7	1558.0	1562.7	1562.7
20°	1455.9	1449.6	1454.3	1452.7	1459.0	1458.2	1467.6	1475.5	1481.0	1484.9	1489.6
22.5°	1430.7	1432.3	1425.2	1426.0	1426.0	1425.2	1429.9	1433.9	1435.4	1437.8	1436.2
25°	1414.2	1415.8	1413.4	1409.5	1407.9	1409.5	1411.9	1416.6	1417.4	1415.8	1410.3
27.5°	1397.7	1393.0	1396.9	1389.9	1388.3	1391.4	1394.6	1395.4	1396.2	1396.2	1391.4
30°	1372.6	1368.7	1372.6	1369.4	1366.3	1369.4	1371.8	1371.8	1373.4	1374.2	1368.7
32.5°	959.3	967.2	1094.5	1171.4	1279.9	1334.9	1345.1	1345.1	1346.7	1346.7	1341.9
35°	326.8	327.6	354.3	384.2	447.8	526.4	629.3	682.8	863.5	1079.5	1288.5
37.5°	322.9	322.1	321.3	320.6	319.8	319.0	317.4	316.6	321.3	381.1	517.0
40°	324.5	323.7	322.1	321.3	320.6	319.0	318.2	316.6	315.1	313.5	311.9
42.5°	324.5	323.7	322.9	322.1	321.3	320.6	319.0	317.4	315.8	313.5	311.1
45°	313.5	313.5	314.3	314.3	315.1	315.1	315.1	314.3	314.3	313.5	310.3
47.5°	293.1	293.1	295.4	295.4	297.0	298.6	298.6	300.1	302.5	304.1	304.8
50°	269.5	269.5	271.8	272.6	274.2	276.6	278.9	279.7	282.1	285.2	288.3
52.5°	245.9	245.9	248.3	248.3	249.8	252.2	254.6	255.3	258.5	261.6	265.6
55°	223.9	223.9	225.5	226.3	227.1	228.6	231.0	231.0	234.1	236.5	240.4
57.5°	204.3	205.8	205.8	205.8	206.6	208.2	209.8	209.8	212.1	214.5	217.6
60°	185.4	187.0	187.0	187.0	187.8	188.6	190.1	190.1	191.7	193.3	196.4
62.5°	168.1	169.7	169.7	170.5	170.5	171.3	172.8	172.1	173.6	174.4	176.8
65°	146.1	147.7	148.5	149.3	150.1	151.6	154.0	153.2	155.6	157.1	159.5
67.5°	124.9	126.5	126.5	127.3	128.1	129.6	131.2	131.2	133.6	135.1	138.3
70°	105.3	106.9	106.9	107.6	108.4	110.0	111.6	110.8	113.1	114.7	117.1
72.5°	87.2	88.8	88.8	89.6	89.6	91.1	92.7	94.3	94.3	95.9	97.4
75°	70.7	71.5	72.3	72.3	73.1	73.9	75.4	77.0	77.8	78.6	80.1
77.5°	55.8	56.6	57.4	57.4	58.1	58.9	59.7	62.9	64.4	65.2	65.2
80°	42.4	43.2	43.2	43.2	44.0	44.8	46.4	46.4	49.5	49.5	50.3
82.5°	29.9	30.6	30.6	30.6	31.4	33.0	33.8	34.6	36.1	36.9	36.9
85°	18.1	18.9	18.9	18.9	19.6	20.4	22.0	22.8	23.6	23.6	24.4
87.5°	7.1	7.9	8.6	8.6	9.4	10.2	11.0	11.8	12.6	12.6	13.4
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1766.2	1771.7	1766.2	1769.3	1773.3	1766.2	1749.7	1743.4	1741.1	1731.6	1725.4
5°	1864.4	1864.4	1862.1	1868.3	1867.6	1856.6	1839.3	1831.4	1823.6	1813.3	1805.5
7.5°	1794.5	1800.8	1804.7	1829.1	1844.8	1846.3	1857.3	1859.7	1862.8	1859.7	1855.0
10°	1693.9	1691.6	1702.6	1725.4	1738.7	1745.8	1767.0	1777.2	1785.8	1803.1	1821.2
12.5°	1637.4	1640.5	1645.2	1661.7	1674.3	1671.1	1679.8	1686.9	1697.1	1714.4	1740.3
15°	1599.6	1602.8	1607.5	1620.1	1627.9	1624.0	1628.7	1633.4	1640.5	1649.1	1664.9
17.5°	1558.8	1564.3	1569.8	1583.1	1590.2	1589.4	1593.4	1594.9	1597.3	1602.8	1613.8
20°	1495.1	1512.4	1523.4	1541.5	1551.7	1550.1	1557.2	1559.6	1562.7	1568.2	1572.9
22.5°	1437.0	1441.7	1447.2	1466.9	1484.1	1505.4	1510.1	1516.4	1524.2	1529.7	1534.4
25°	1404.0	1400.9	1403.2	1416.6	1426.0	1427.6	1434.7	1455.1	1476.3	1485.7	1496.7
27.5°	1384.4	1381.2	1380.4	1386.7	1388.3	1384.4	1382.8	1389.1	1404.8	1420.5	1453.5
30°	1363.2	1359.2	1356.1	1361.6	1363.9	1358.4	1348.2	1342.7	1352.2	1356.1	1369.4
32.5°	1338.0	1334.1	1332.5	1335.7	1337.2	1332.5	1321.5	1315.2	1313.7	1310.5	1313.7
35°	1309.7	1305.8	1303.4	1304.2	1307.4	1303.4	1294.0	1286.2	1282.2	1273.6	1267.3
37.5°	674.9	956.2	1241.4	1271.2	1274.4	1273.6	1264.2	1255.5	1251.6	1241.4	1238.2
40°	308.8	344.9	517.8	676.5	975.8	1239.8	1231.2	1222.5	1215.4	1212.3	1200.5
42.5°	308.0	308.8	309.6	305.6	378.7	645.0	952.2	1188.7	1184.0	1176.2	1167.5
45°	308.0	304.1	307.2	302.5	304.1	303.3	377.9	609.7	1085.0	1133.7	1129.8
47.5°	304.8	302.5	305.6	301.7	297.0	299.3	296.2	300.1	468.3	794.3	1088.2
50°	290.7	292.3	297.8	297.0	293.1	296.2	290.7	295.4	291.5	319.8	616.0
52.5°	269.5	272.6	278.1	282.8	284.4	288.3	286.8	288.3	285.2	286.0	286.8
55°	244.3	248.3	253.0	260.1	263.2	269.5	274.2	276.6	280.5	279.7	273.4
57.5°	220.8	224.7	228.6	235.7	242.8	245.9	254.6	259.3	269.5	267.1	265.6
60°	198.8	201.9	205.8	207.4	216.1	221.6	229.4	234.1	247.5	250.6	255.3
62.5°	179.1	180.7	183.8	186.2	191.7	197.2	201.1	209.0	216.1	226.3	233.3
65°	161.1	162.6	165.0	166.6	167.3	175.2	177.6	186.2	188.6	199.6	205.8
67.5°	140.6	143.8	146.9	148.5	150.1	154.8	156.4	160.3	165.8	170.5	178.3
70°	119.4	121.8	124.9	127.3	130.4	133.6	138.3	140.6	144.6	147.7	154.0
72.5°	99.8	102.1	103.7	106.1	108.4	110.8	114.7	120.2	123.4	128.9	130.4
75°	80.9	83.3	84.9	86.4	88.8	90.4	91.9	97.4	100.6	105.3	110.0
77.5°	66.8	66.8	68.4	73.1	72.3	72.3	73.9	77.0	79.4	82.5	87.2
80°	51.9	52.6	53.4	57.4	58.1	58.9	58.1	60.5	62.9	63.6	66.8
82.5°	38.5	39.3	39.3	41.6	44.0	44.0	44.0	44.8	47.1	47.9	49.5
85°	25.9	26.7	27.5	28.3	29.9	30.6	31.4	31.4	33.0	33.8	34.6
87.5°	14.1	15.7	16.5	17.3	18.1	18.9	19.6	20.4	21.2	22.0	22.8
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1723.0	1719.1	1716.7	1710.4	1708.9	1698.6	1700.2	1698.6	1698.6	1701.0	1708.9
5°	1796.8	1778.0	1773.3	1759.9	1748.9	1730.1	1718.3	1712.0	1702.6	1698.6	1704.1
7.5°	1847.1	1833.0	1821.2	1809.4	1793.7	1771.7	1755.2	1736.4	1720.6	1705.7	1701.8
10°	1838.5	1854.2	1854.2	1847.1	1832.2	1810.2	1790.6	1767.0	1739.5	1715.9	1701.8
12.5°	1765.4	1792.9	1814.9	1831.4	1846.3	1831.4	1811.8	1792.9	1762.3	1727.7	1701.8
15°	1685.3	1713.6	1741.1	1775.6	1811.8	1826.7	1825.9	1803.9	1776.4	1740.3	1704.1
17.5°	1628.7	1648.4	1663.3	1701.0	1745.0	1783.5	1809.4	1811.0	1784.3	1752.1	1704.9
20°	1586.3	1600.4	1613.0	1634.2	1672.7	1719.9	1767.8	1794.5	1789.8	1754.4	1707.3
22.5°	1547.8	1558.0	1568.2	1583.9	1614.6	1645.2	1701.0	1756.0	1779.6	1750.5	1704.9
25°	1509.3	1520.3	1528.1	1539.1	1563.5	1588.6	1627.9	1696.3	1748.9	1747.4	1700.2
27.5°	1463.7	1478.6	1488.1	1503.0	1519.5	1538.4	1565.1	1629.5	1704.9	1731.6	1687.6
30°	1408.7	1430.7	1444.9	1461.4	1475.5	1492.0	1513.2	1552.5	1646.0	1701.0	1674.3
32.5°	1329.4	1368.7	1400.1	1415.8	1431.5	1445.6	1464.5	1497.5	1573.7	1659.4	1659.4
35°	1272.8	1290.9	1319.2	1364.7	1384.4	1398.5	1415.8	1441.7	1490.4	1609.9	1635.0
37.5°	1228.8	1235.9	1250.0	1294.8	1331.7	1354.5	1371.8	1388.3	1436.2	1542.3	1603.6
40°	1195.8	1193.4	1191.9	1213.1	1265.7	1301.9	1321.5	1338.0	1374.9	1461.4	1561.9
42.5°	1157.3	1154.9	1147.1	1152.6	1178.5	1239.0	1268.9	1286.9	1317.6	1376.5	1516.4
45°	1117.2	1113.3	1110.2	1104.7	1114.1	1147.9	1209.2	1235.9	1253.2	1305.8	1459.0
47.5°	1076.4	1070.9	1067.0	1062.2	1056.7	1072.5	1130.6	1178.5	1208.4	1241.4	1389.9
50°	1018.2	1025.3	1020.6	1015.1	1010.4	1007.2	1031.6	1110.2	1147.1	1173.8	1305.8
52.5°	480.0	933.4	972.7	967.2	960.9	955.4	960.9	1020.6	1087.4	1108.6	1204.4
55°	273.4	415.6	865.0	914.5	909.0	901.2	896.5	916.9	1016.7	1045.0	1111.7
57.5°	263.2	264.0	381.8	824.2	854.8	847.7	842.2	847.0	931.8	979.7	1030.8
60°	254.6	254.6	254.6	364.6	788.0	790.4	783.3	775.5	812.4	906.7	949.1
62.5°	235.7	240.4	242.8	242.8	359.8	729.9	722.8	720.5	722.0	818.7	867.4
65°	211.3	222.3	227.1	230.2	230.2	377.9	660.8	656.8	651.3	688.3	784.9
67.5°	184.6	195.6	205.8	212.1	212.9	220.0	394.4	591.6	583.8	584.5	696.9
70°	157.1	166.6	177.6	187.0	195.6	199.6	205.8	491.0	517.0	506.0	597.1
72.5°	135.9	139.9	147.7	157.1	167.3	176.8	182.3	195.6	448.6	436.8	454.1
75°	113.1	116.3	121.8	128.1	135.9	146.9	156.4	165.8	238.1	366.1	363.8
77.5°	88.0	93.5	99.8	103.7	107.6	115.5	128.1	137.5	146.9	247.5	291.5
80°	67.6	71.5	74.6	78.6	83.3	88.8	93.5	104.5	115.5	124.1	223.1
82.5°	50.3	52.6	55.0	56.6	58.1	61.3	69.9	73.9	80.9	88.8	105.3
85°	35.4	36.9	38.5	39.3	40.1	40.9	44.0	44.8	51.9	53.4	63.6
87.5°	22.8	23.6	25.1	25.9	25.9	26.7	27.5	27.5	27.5	25.9	31.4
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: 2SNLED-LD5-40HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1714.4	1714.4
2.5°	1715.1	1727.7
5°	1712.8	1729.3
7.5°	1706.5	1722.2
10°	1697.1	1715.9
12.5°	1686.9	1704.9
15°	1678.2	1691.6
17.5°	1668.8	1676.6
20°	1656.2	1662.5
22.5°	1643.6	1640.5
25°	1629.5	1622.4
27.5°	1611.4	1598.1
30°	1594.9	1571.4
32.5°	1579.2	1540.7
35°	1558.0	1509.3
37.5°	1536.0	1477.1
40°	1510.1	1440.1
42.5°	1482.6	1403.2
45°	1448.0	1367.9
47.5°	1417.4	1325.4
50°	1374.9	1279.9
52.5°	1323.1	1237.4
55°	1261.8	1185.6
57.5°	1195.8	1131.4
60°	1125.1	1069.3
62.5°	1039.5	1004.9
65°	938.9	931.0
67.5°	807.7	849.3
70°	662.3	755.8
72.5°	553.9	656.8
75°	454.1	546.0
77.5°	359.8	428.2
80°	224.7	313.5
82.5°	150.9	205.8
85°	91.1	98.2
87.5°	35.4	36.1
90°	0.0	0.0

(END OF REPORT)