

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-LD5-23SL-RM-UNV-L950-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: 2SNLED-LD5-23SL-RM-UNV-L950-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

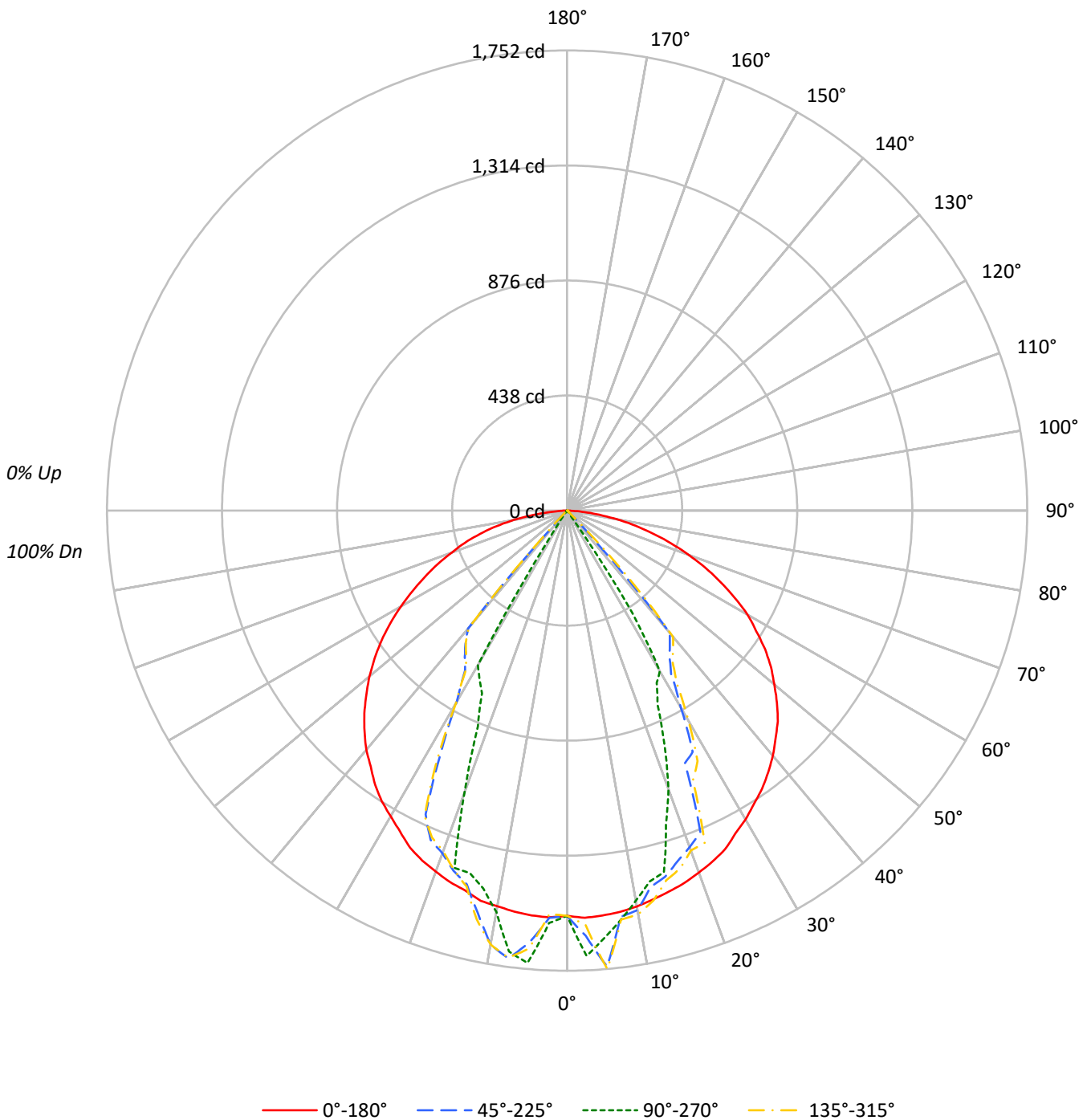
Lumens per Lamp: N/A  
Luminaire Lumens: 2194.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 18  
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



TEST NUMBER: P#  
CATALOG NUMBER: 2SNLED-LD5-23SL-RM-UNV-L950-CD1-U

### 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	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°	24938	24938	24938	24938
5°	24971	25648	24965	27161
10°	24844	23209	24829	23878
15°	24706	21663	24645	21719
20°	24663	17063	24593	17273
25°	24657	12347	24538	11652
30°	24464	10832	24207	10413
35°	24449	239	24090	289
40°	24433	51	23850	51
45°	24405	32	23489	23
50°	24089	24	22984	24
55°	23791	17	22330	17
60°	23150	18	21341	18
65°	21707	30	20159	19
70°	19834	33	18882	33
75°	17140	36	17423	36
80°	13365	42	14128	42
85°	7161	49	7312	49



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	7.1
10°-20°	422.2	19.2
20°-30°	537.3	24.5
30°-40°	453.9	20.7
40°-50°	296.7	13.5
50°-60°	187.0	8.5
60°-70°	99.5	4.5
70°-80°	36.3	1.7
80°-90°	6.3	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°	1114.4	50.8
0°-40°	1568.2	71.5
0°-60°	2051.9	93.5
0°-90°	2194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1543	1543	1543	1543	1543	
5°	1548	1633	1547	1729	1548	147
15°	1501	1425	1498	1429	1501	424
25°	1423	814	1416	768	1423	654
35°	1293	15	1274	18	1293	809
45°	1134	2	1092	1	1134	872
55°	920	1	863	1	920	819
65°	644	1	598	1	644	638
75°	338	1	344	1	338	359
85°	66	1	68	1	66	84
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1551.8	1552.7	1553.2	1554.1	1555.5	1556.0	1556.9	1556.0	1556.0	1556.0	1556.0
5°	1547.6	1549.5	1550.9	1552.7	1556.0	1556.4	1560.1	1560.6	1562.4	1566.1	1568.9
7.5°	1540.7	1542.5	1545.3	1549.9	1554.6	1559.7	1566.1	1573.1	1582.8	1592.1	1603.6
10°	1530.5	1532.8	1536.0	1540.2	1562.9	1566.1	1580.5	1600.4	1606.0	1635.1	1656.9
12.5°	1515.7	1523.5	1531.9	1535.6	1557.3	1591.6	1639.8	1630.0	1619.4	1714.8	1713.4
15°	1501.3	1512.0	1507.8	1537.9	1557.8	1617.5	1597.2	1640.7	1720.3	1700.9	1701.8
17.5°	1486.0	1488.3	1511.5	1536.5	1572.2	1602.7	1627.7	1687.5	1703.2	1704.6	1687.5
20°	1466.6	1477.7	1511.5	1534.2	1594.4	1608.7	1662.9	1693.5	1687.0	1671.3	1642.1
22.5°	1446.7	1480.5	1514.7	1546.7	1588.8	1627.3	1654.1	1668.5	1634.7	1572.6	1539.3
25°	1423.0	1443.0	1487.9	1534.6	1587.4	1609.7	1625.4	1602.3	1558.3	1502.7	1446.7
27.5°	1386.5	1418.4	1475.8	1528.6	1576.3	1603.2	1577.7	1522.1	1451.3	1414.7	1389.2
30°	1358.2	1399.9	1447.1	1498.1	1547.6	1563.4	1498.5	1435.1	1386.5	1349.9	1344.3
32.5°	1323.9	1383.2	1428.1	1476.8	1518.4	1497.6	1434.6	1352.7	1312.4	1298.5	1304.0
35°	1293.4	1338.3	1397.1	1444.8	1474.9	1428.1	1328.6	1277.6	1258.2	1266.1	1255.9
37.5°	1256.8	1316.1	1370.3	1411.5	1401.3	1330.9	1246.6	1214.2	1216.5	1210.0	1190.6
40°	1218.8	1275.3	1331.8	1370.7	1335.1	1227.6	1171.6	1164.6	1166.0	1145.2	1117.4
42.5°	1174.4	1225.8	1282.3	1317.5	1240.6	1156.8	1118.8	1119.7	1107.7	1078.5	1063.7
45°	1134.5	1181.8	1240.6	1243.8	1149.4	1079.4	1068.3	1056.3	1029.4	1019.7	1008.6
47.5°	1083.6	1135.9	1184.6	1167.0	1060.0	1016.5	1008.1	981.7	968.3	960.9	951.6
50°	1029.4	1082.2	1126.7	1076.7	975.7	965.5	938.2	917.4	908.1	900.2	891.9
52.5°	978.0	1021.6	1066.9	980.8	910.9	901.2	870.1	858.1	848.8	840.0	838.2
55°	919.7	958.1	989.1	889.6	848.8	826.1	803.9	795.6	786.8	782.6	789.6
57.5°	853.5	897.0	892.4	799.7	781.7	748.8	740.5	734.9	728.4	731.2	673.3
60°	793.7	827.1	804.4	734.0	703.4	681.2	673.8	670.1	673.8	617.3	542.7
62.5°	720.1	757.6	711.8	657.1	624.7	614.0	607.6	612.7	558.5	496.4	478.4
65°	643.7	684.4	616.8	574.7	554.3	545.0	544.6	501.5	448.3	424.2	424.2
67.5°	570.1	612.2	525.1	489.9	482.1	483.0	456.1	390.8	376.0	359.8	313.0
70°	491.8	528.8	433.9	412.6	408.0	404.7	339.4	321.8	304.2	261.2	257.5
72.5°	414.0	432.1	348.7	343.6	342.7	284.8	271.8	241.7	221.4	216.3	213.9
75°	338.5	333.0	275.5	280.2	236.2	215.8	195.0	177.4	174.6	172.7	43.1
77.5°	267.2	239.4	217.2	188.9	169.0	143.6	139.4	136.6	89.8	32.4	26.4
80°	194.5	155.1	144.5	122.7	104.7	100.5	102.8	31.5	25.0	20.8	18.1
82.5°	123.6	99.1	81.0	70.9	69.0	30.1	22.2	18.1	15.7	13.4	11.1
85°	66.2	44.0	40.8	34.3	20.4	13.9	11.6	8.8	7.4	6.0	5.6
87.5°	20.8	17.6	14.4	11.6	6.9	4.6	3.7	3.2	2.8	2.3	2.3
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°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1555.0	1556.0	1555.5	1556.9	1556.9	1558.7	1560.1	1561.5	1564.3	1565.7	1576.3
5°	1574.9	1577.3	1584.2	1590.7	1598.6	1600.9	1614.3	1617.5	1633.3	1635.1	1687.0
7.5°	1619.4	1628.2	1644.9	1661.5	1678.2	1688.9	1707.4	1719.0	1731.5	1742.6	1783.8
10°	1673.1	1687.9	1704.1	1720.8	1730.5	1750.9	1762.0	1763.9	1760.6	1742.6	1675.9
12.5°	1725.9	1740.7	1733.8	1737.0	1748.6	1712.5	1717.6	1691.6	1709.7	1620.3	1554.1
15°	1718.5	1717.6	1700.4	1644.9	1654.1	1585.1	1557.3	1536.0	1553.2	1543.9	1533.7
17.5°	1696.3	1654.1	1624.5	1557.8	1529.6	1510.1	1510.6	1511.0	1502.7	1511.5	1485.6
20°	1602.3	1555.0	1511.0	1487.4	1479.1	1465.2	1472.1	1465.2	1465.7	1468.4	1428.6
22.5°	1477.2	1462.9	1437.4	1444.8	1442.0	1454.5	1445.3	1430.9	1435.6	1414.7	1384.6
25°	1426.8	1410.1	1409.2	1411.9	1407.8	1402.2	1393.9	1372.1	1370.7	1364.2	1350.3
27.5°	1375.8	1376.7	1379.5	1371.2	1356.4	1345.2	1332.7	1322.1	1326.3	1318.9	1299.9
30°	1340.6	1340.2	1323.5	1316.1	1288.8	1289.2	1286.0	1279.5	1275.3	1275.8	1263.7
32.5°	1290.6	1276.3	1257.3	1248.0	1245.7	1237.4	1230.9	1232.3	1235.5	1223.9	1236.4
35°	1239.2	1209.6	1206.8	1198.9	1191.5	1185.9	1188.3	1179.0	1178.5	1177.2	1075.3
37.5°	1170.2	1155.8	1154.5	1146.1	1141.0	1139.6	1130.8	1132.2	1136.4	1143.8	916.9
40°	1113.2	1100.3	1097.0	1096.6	1085.5	1084.5	1086.9	1095.6	1101.7	1055.4	873.8
42.5°	1052.1	1053.0	1042.9	1036.4	1037.8	1041.9	1053.0	1022.5	885.9	844.2	798.8
45°	999.8	995.2	989.6	987.8	999.8	991.5	869.2	802.1	785.8	784.0	656.6
47.5°	945.1	943.8	941.4	942.8	874.3	779.4	751.6	742.8	745.6	743.7	564.0
50°	890.0	891.9	891.9	778.9	715.0	699.3	701.6	709.4	660.4	616.4	525.6
52.5°	842.3	828.0	709.4	668.7	654.3	661.3	644.6	583.0	538.6	512.6	486.2
55°	753.9	648.3	621.9	615.4	620.5	558.9	521.0	481.1	469.6	466.8	451.5
57.5°	593.2	571.9	574.2	548.3	489.5	454.7	439.5	433.9	428.8	425.1	37.0
60°	524.7	530.7	485.8	430.2	406.6	402.0	398.2	393.2	392.2	385.7	23.6
62.5°	480.2	422.3	383.4	369.5	364.0	362.6	355.6	353.3	300.1	41.2	17.6
65°	362.1	338.5	331.1	327.9	321.8	321.8	267.2	42.1	34.3	29.6	15.7
67.5°	295.4	293.6	289.9	285.7	194.5	40.8	35.7	31.0	26.9	23.6	13.9
70°	250.1	249.1	226.9	41.7	34.7	30.6	26.9	24.1	22.2	19.9	12.5
72.5°	205.1	41.7	35.2	30.6	26.4	24.1	21.8	19.4	17.6	16.2	10.2
75°	32.0	28.2	25.0	22.7	20.8	18.5	16.7	15.3	14.8	13.0	6.9
77.5°	23.2	19.9	18.1	16.2	14.4	13.0	11.1	9.7	8.8	7.4	5.1
80°	16.2	14.4	13.0	10.7	9.3	7.9	6.9	6.0	5.6	4.6	2.3
82.5°	9.3	7.9	6.9	5.6	5.1	4.2	3.7	3.2	3.2	2.3	2.3
85°	4.2	4.2	3.2	2.8	2.3	2.3	2.3	1.9	1.9	1.4	1.4
87.5°	1.9	1.9	1.9	1.9	1.9	1.4	1.4	1.4	1.4	1.4	0.9
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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**CANDELA DISTRIBUTION (continued):**

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1591.1	1597.2	1608.7	1620.8	1607.4	1655.5	1651.8	1668.0	1676.8	1681.0	1690.7
5°	1732.8	1759.7	1768.5	1742.1	1726.8	1711.1	1675.4	1648.6	1651.8	1643.0	1611.1
7.5°	1730.1	1672.6	1595.3	1560.1	1557.3	1553.2	1564.3	1570.8	1571.7	1571.2	1570.3
10°	1583.7	1554.1	1549.0	1544.4	1546.2	1529.1	1521.2	1499.0	1511.0	1504.5	1506.9
12.5°	1539.3	1532.3	1505.0	1467.0	1489.7	1472.6	1462.9	1469.4	1461.9	1455.0	1452.7
15°	1512.9	1468.0	1452.7	1443.4	1436.9	1433.2	1436.5	1429.1	1426.8	1425.4	1428.6
17.5°	1458.2	1440.2	1423.5	1399.0	1399.4	1398.0	1407.3	1421.2	1422.1	1350.8	1286.4
20°	1415.2	1400.4	1379.1	1363.8	1384.6	1347.6	1204.5	1136.4	1125.7	1125.7	1127.6
22.5°	1380.9	1348.0	1349.4	1325.3	1130.4	1090.6	1091.5	1095.6	1076.7	1011.8	1004.9
25°	1334.1	1329.0	1227.6	1060.9	1062.3	1031.3	983.6	916.4	843.7	843.7	831.7
27.5°	1298.9	1191.0	1042.9	1035.9	931.7	866.0	825.2	763.6	755.3	747.4	748.3
30°	1268.8	1007.7	1011.4	866.0	789.1	734.4	731.2	721.0	715.9	714.5	709.4
32.5°	1003.0	981.3	846.5	737.2	707.1	698.3	694.2	682.6	682.1	673.3	612.2
35°	940.5	861.3	708.5	678.9	670.1	661.7	654.8	439.5	51.9	20.8	18.1
37.5°	869.2	719.6	655.3	641.8	633.5	468.2	46.8	16.2	11.6	8.3	7.4
40°	736.8	642.8	622.4	607.6	250.5	16.2	10.2	7.9	4.6	4.2	3.7
42.5°	621.5	605.7	583.9	177.8	18.5	7.9	5.1	3.7	3.2	3.2	2.8
45°	581.6	567.7	235.2	17.6	11.6	3.7	3.2	3.2	2.8	1.9	1.9
47.5°	544.6	479.3	21.3	11.1	7.4	3.2	2.8	1.9	1.9	1.9	1.4
50°	505.2	26.4	14.8	8.3	4.6	1.9	1.9	1.9	1.9	1.4	1.4
52.5°	94.5	18.5	12.0	7.4	2.3	1.9	1.9	1.9	1.4	1.4	1.4
55°	22.2	14.8	11.1	6.5	1.9	1.9	1.9	1.4	1.4	1.4	0.9
57.5°	16.7	11.1	8.8	6.0	1.9	1.4	1.4	1.4	1.4	1.4	0.9
60°	13.9	7.9	6.9	5.6	1.4	1.4	1.4	1.4	1.4	1.4	0.9
62.5°	9.7	6.5	5.1	4.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	7.9	5.1	4.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	6.9	4.2	2.8	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	5.6	1.4	1.4	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	4.6	1.4	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	4.6	2.3	0.9	0.9	1.4	1.4	1.9	1.9	1.4	1.4	1.4
77.5°	3.2	2.3	0.9	0.9	1.4	1.4	1.9	1.9	1.4	1.4	1.4
80°	1.9	2.3	0.9	1.4	1.4	2.8	3.2	1.9	1.4	1.4	1.4
82.5°	1.9	2.3	2.8	2.8	1.4	2.3	2.8	2.3	1.9	1.4	1.4
85°	1.9	1.4	1.9	2.3	1.4	2.3	2.3	1.9	1.9	1.4	1.4
87.5°	0.9	1.4	1.4	1.9	1.9	1.9	2.3	1.9	1.9	1.9	1.4
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1695.3	1697.2	1668.0	1657.8	1666.6	1664.8	1656.9	1627.7	1624.5	1605.0	1576.8
5°	1620.3	1632.8	1617.5	1643.9	1631.4	1643.9	1681.9	1699.5	1728.2	1745.8	1752.3
7.5°	1568.0	1570.8	1570.8	1573.1	1575.4	1575.9	1573.1	1571.2	1563.4	1553.6	1571.2
10°	1504.5	1507.8	1513.3	1512.4	1512.0	1521.7	1524.0	1543.9	1543.0	1546.7	1560.1
12.5°	1471.7	1446.7	1469.4	1463.3	1471.7	1458.7	1482.8	1478.6	1480.0	1491.1	1519.8
15°	1417.0	1424.9	1430.5	1430.5	1433.7	1430.9	1428.1	1447.1	1458.7	1459.2	1457.3
17.5°	1311.9	1252.2	1313.3	1297.6	1423.0	1426.3	1415.6	1406.8	1406.8	1413.8	1428.6
20°	1126.2	1127.6	1128.1	1134.1	1141.5	1141.0	1141.5	1323.9	1410.5	1390.6	1377.2
22.5°	987.3	970.2	1002.1	999.8	1039.6	1083.6	1125.7	1121.6	1124.4	1253.1	1368.9
25°	791.4	813.6	795.6	803.4	848.4	900.7	933.1	1017.9	1110.0	1103.5	1133.6
27.5°	745.1	739.1	747.4	747.4	753.4	760.4	778.4	826.1	908.1	994.2	1075.7
30°	701.1	706.2	707.1	715.5	720.1	724.7	727.5	745.6	764.1	823.8	924.3
32.5°	526.5	461.7	607.6	646.9	680.3	688.1	693.7	701.1	714.5	723.3	773.8
35°	15.3	15.3	16.2	18.5	23.6	159.3	606.6	668.7	677.5	688.6	697.9
37.5°	7.4	5.6	6.5	6.9	8.3	11.6	16.7	51.9	577.5	652.9	663.1
40°	3.2	3.2	3.2	3.2	3.7	4.6	6.9	11.6	17.6	464.5	626.5
42.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.2	4.2	8.3	19.9	328.8
45°	1.9	1.9	1.4	1.9	1.9	2.3	2.8	2.8	3.7	12.5	22.7
47.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.8	8.3	12.0
50°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	6.5	8.3
52.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	7.4
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	6.5
57.5°	0.9	0.9	0.9	0.9	0.9	1.4	0.9	0.9	1.4	1.4	6.0
60°	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4	5.6
62.5°	1.4	1.4	0.9	1.4	0.9	0.9	1.4	1.4	1.4	1.4	3.7
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	1.4
67.5°	1.4	1.4	1.4	1.4	0.9	1.4	0.9	1.4	1.4	0.9	0.9
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	0.9	0.9	0.9
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.8	2.3	2.3	0.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.3	2.3	2.3	3.2
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9	2.3
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.4	1.9
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.4	1.4	1.4
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1579.1	1563.4	1558.3	1547.6	1546.7	1547.6	1545.3	1542.1	1543.9	1540.7	1537.9
5°	1756.0	1713.9	1686.5	1650.0	1599.5	1588.4	1585.6	1569.8	1564.3	1562.4	1555.0
7.5°	1612.9	1689.8	1736.1	1751.8	1692.6	1678.7	1662.5	1649.5	1637.0	1613.4	1599.0
10°	1549.5	1553.2	1597.6	1649.5	1733.8	1745.4	1754.1	1725.9	1718.0	1657.8	1644.9
12.5°	1534.6	1535.1	1540.2	1571.7	1637.9	1645.3	1676.4	1693.0	1713.4	1725.0	1715.7
15°	1467.0	1504.5	1532.3	1535.1	1541.1	1554.1	1563.4	1621.2	1645.8	1711.5	1707.8
17.5°	1435.6	1447.6	1487.9	1520.8	1515.2	1510.6	1518.0	1525.9	1549.5	1615.2	1614.3
20°	1383.2	1421.7	1443.4	1477.7	1508.7	1510.1	1501.8	1497.1	1487.9	1498.5	1508.3
22.5°	1361.0	1367.0	1407.8	1431.8	1467.0	1479.5	1481.4	1481.9	1476.8	1471.2	1468.4
25°	1358.7	1339.7	1360.5	1390.6	1416.6	1430.0	1445.3	1450.4	1448.5	1448.5	1445.7
27.5°	1111.9	1333.7	1322.6	1342.5	1374.0	1383.2	1391.1	1406.8	1416.6	1423.5	1426.8
30°	1059.1	1098.9	1292.9	1295.7	1327.7	1326.7	1335.5	1348.5	1361.0	1377.2	1381.4
32.5°	936.8	1034.5	1183.6	1248.9	1282.3	1285.5	1290.1	1293.8	1305.4	1323.5	1339.2
35°	750.7	942.4	1014.1	1226.7	1232.7	1239.2	1242.0	1250.8	1254.5	1261.9	1275.8
37.5°	679.3	778.9	972.9	1060.9	1175.8	1181.3	1196.1	1199.8	1205.9	1211.9	1222.5
40°	638.1	665.4	809.9	947.5	1129.9	1133.6	1138.7	1148.0	1148.4	1155.4	1165.1
42.5°	605.2	622.8	665.0	904.9	1097.5	1097.0	1085.0	1091.0	1093.8	1101.2	1114.6
45°	483.5	584.4	611.3	739.1	873.8	936.8	1057.7	1037.8	1037.3	1040.1	1054.4
47.5°	24.5	549.7	568.7	609.9	825.2	827.5	843.3	975.7	996.1	989.6	991.0
50°	16.7	38.0	529.8	548.8	711.3	768.7	780.3	786.3	862.7	947.9	934.0
52.5°	13.0	21.8	324.6	509.4	577.9	620.1	694.6	737.2	741.9	776.1	892.4
55°	11.6	16.7	35.2	470.0	491.3	500.6	544.1	618.7	678.9	696.9	698.3
57.5°	10.2	15.3	24.1	212.6	446.9	448.7	456.1	482.1	536.2	585.8	641.8
60°	9.3	13.4	19.0	36.6	406.1	410.8	412.1	419.1	425.6	459.4	523.7
62.5°	5.6	10.7	16.7	26.4	321.4	369.1	368.6	373.2	379.3	383.0	395.9
65°	4.6	8.3	14.4	22.2	39.4	49.1	298.2	331.6	335.3	340.4	342.7
67.5°	4.2	7.4	10.7	17.6	29.6	33.8	38.9	48.2	263.0	296.4	301.0
70°	3.7	5.1	8.8	14.8	24.1	25.9	29.2	33.3	39.4	48.6	238.0
72.5°	2.3	3.7	6.0	10.7	18.5	20.8	22.7	25.5	28.2	33.8	38.9
75°	0.9	2.8	5.1	7.9	14.4	15.7	17.1	19.0	21.3	25.0	27.8
77.5°	0.9	2.3	4.2	5.6	9.3	10.7	12.5	13.9	15.7	17.6	20.4
80°	3.2	1.9	2.8	4.2	6.5	6.9	7.9	8.8	10.2	11.6	13.4
82.5°	2.3	2.8	3.2	2.8	3.2	4.2	4.6	5.6	6.0	6.9	7.4
85°	1.9	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.8	3.2	4.2
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1537.9	1537.0	1534.2	1534.2	1533.7	1535.6	1537.0	1538.4	1537.9	1540.7	1537.9
5°	1549.5	1547.2	1543.0	1539.3	1537.9	1538.8	1537.4	1538.8	1537.0	1539.3	1535.1
7.5°	1581.4	1573.5	1557.3	1550.9	1542.5	1542.1	1537.9	1537.0	1534.2	1534.2	1529.1
10°	1637.9	1599.9	1595.3	1575.9	1568.9	1535.1	1542.5	1530.0	1528.6	1522.6	1520.3
12.5°	1684.2	1654.6	1645.8	1628.7	1609.2	1540.7	1556.0	1529.1	1527.7	1515.7	1503.2
15°	1685.2	1702.3	1678.2	1631.0	1626.8	1579.6	1548.5	1539.3	1527.2	1491.1	1497.1
17.5°	1631.0	1670.3	1681.9	1671.7	1642.1	1610.1	1566.6	1548.1	1512.0	1495.8	1484.6
20°	1543.0	1582.8	1632.4	1635.6	1654.1	1631.4	1574.5	1544.4	1500.8	1472.6	1463.3
22.5°	1473.1	1502.2	1559.2	1585.6	1608.3	1616.2	1580.0	1535.6	1481.4	1454.1	1448.5
25°	1436.0	1442.5	1459.6	1490.7	1540.7	1576.8	1581.9	1534.6	1506.4	1446.7	1415.2
27.5°	1422.6	1417.0	1410.1	1425.8	1463.3	1507.3	1536.5	1544.4	1474.0	1417.0	1385.5
30°	1388.3	1391.6	1380.9	1375.3	1399.9	1445.3	1497.1	1510.1	1455.9	1397.1	1361.0
32.5°	1346.2	1351.7	1353.6	1343.9	1338.8	1370.3	1426.3	1457.3	1454.5	1368.9	1328.6
35°	1293.4	1309.1	1313.3	1313.8	1305.4	1300.3	1332.7	1397.1	1421.7	1355.9	1297.6
37.5°	1237.8	1242.4	1265.1	1271.2	1271.2	1255.9	1280.0	1331.4	1365.6	1326.7	1259.6
40°	1168.4	1183.2	1204.5	1215.1	1225.8	1227.2	1213.7	1249.9	1306.4	1296.6	1223.9
42.5°	1117.9	1127.6	1140.6	1154.9	1176.7	1182.2	1168.4	1174.8	1233.6	1259.1	1177.6
45°	1059.1	1072.0	1075.7	1091.5	1114.2	1130.4	1129.9	1116.5	1163.7	1195.2	1143.8
47.5°	998.9	1011.4	1017.9	1025.7	1042.4	1063.2	1074.8	1068.8	1078.1	1139.6	1098.9
50°	936.8	943.8	956.7	965.5	976.6	988.7	1016.5	1022.0	1009.1	1058.1	1049.3
52.5°	878.0	880.3	889.1	897.9	912.7	921.5	943.8	960.4	959.5	973.9	994.2
55°	832.2	822.0	823.8	830.8	840.5	853.9	866.4	892.4	901.2	903.9	936.3
57.5°	650.2	754.8	764.1	763.6	775.2	781.2	792.8	809.9	841.4	834.5	870.6
60°	590.9	602.5	690.0	700.2	704.3	709.9	723.8	739.5	762.7	777.5	793.3
62.5°	450.6	521.0	547.4	624.7	636.7	640.0	649.2	656.6	680.7	714.5	708.1
65°	348.7	378.8	459.4	490.9	556.6	565.0	577.9	585.8	592.7	631.6	633.5
67.5°	301.5	306.1	327.9	388.5	430.2	494.6	502.4	509.4	520.0	547.8	565.0
70°	257.5	263.0	269.0	274.1	328.3	370.9	430.7	433.0	439.9	458.4	497.3
72.5°	48.6	220.0	223.7	226.9	232.9	261.2	318.1	364.4	367.2	376.0	411.7
75°	32.9	38.4	52.8	181.5	187.5	189.4	199.1	257.0	299.6	301.5	317.2
77.5°	23.6	26.4	32.0	38.0	96.8	145.4	147.7	158.4	202.4	234.3	237.1
80°	16.2	18.1	21.3	24.1	29.6	38.9	107.4	110.7	116.2	160.2	168.6
82.5°	9.3	10.7	12.5	15.3	17.6	22.2	28.7	37.0	75.5	80.6	107.0
85°	4.6	5.1	6.0	7.4	8.8	10.7	14.4	17.6	24.1	43.5	44.9
87.5°	2.3	2.3	2.3	2.3	3.7	4.2	5.1	6.5	8.3	12.5	16.2
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: 2SNLED-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1538.4	1544.8	1550.4	1551.8	1551.8	1552.7	1554.1	1555.0	1556.0	1556.9	1556.0
5°	1535.6	1542.5	1547.2	1548.5	1548.5	1551.3	1553.6	1556.4	1557.8	1557.8	1556.9
7.5°	1528.6	1533.7	1539.7	1543.4	1543.9	1548.5	1552.7	1552.2	1554.1	1555.0	1557.3
10°	1519.4	1519.4	1529.6	1532.3	1534.6	1539.7	1541.1	1543.9	1550.4	1551.3	1557.3
12.5°	1514.7	1510.1	1522.1	1523.5	1531.4	1524.9	1533.3	1536.0	1529.6	1538.4	1526.8
15°	1493.9	1499.5	1497.6	1501.8	1515.7	1508.3	1530.9	1523.5	1540.2	1520.3	1555.5
17.5°	1476.8	1475.8	1483.2	1487.0	1489.7	1505.5	1511.5	1519.8	1526.3	1520.8	1534.6
20°	1464.3	1456.9	1462.4	1466.6	1476.3	1488.3	1492.0	1479.5	1501.3	1538.4	1547.2
22.5°	1440.6	1435.6	1442.0	1442.0	1456.9	1455.0	1468.9	1461.0	1481.4	1524.5	1569.4
25°	1408.7	1409.2	1416.1	1424.4	1427.2	1448.1	1455.5	1465.7	1491.1	1542.5	1569.8
27.5°	1376.3	1373.5	1377.7	1394.8	1409.2	1424.4	1426.8	1461.5	1496.2	1531.4	1555.5
30°	1343.9	1341.1	1343.9	1356.4	1373.5	1383.7	1409.2	1455.5	1487.9	1512.0	1534.6
32.5°	1309.1	1306.4	1312.8	1322.1	1352.2	1353.6	1404.1	1447.6	1473.1	1490.7	1486.5
35°	1272.1	1268.4	1274.4	1288.8	1316.5	1326.7	1379.5	1411.9	1440.6	1449.0	1429.5
37.5°	1227.6	1221.1	1228.6	1248.5	1277.6	1307.3	1351.3	1388.8	1404.1	1381.8	1358.7
40°	1181.3	1176.7	1189.7	1199.8	1234.1	1275.3	1325.8	1352.2	1342.5	1317.0	1291.5
42.5°	1140.1	1130.4	1142.0	1161.4	1200.3	1247.1	1287.8	1302.6	1279.5	1242.0	1212.3
45°	1089.6	1078.1	1091.9	1117.9	1159.6	1212.8	1244.8	1239.7	1200.3	1167.9	1127.1
47.5°	1036.8	1022.9	1036.8	1067.9	1114.6	1171.1	1194.3	1171.1	1121.6	1080.8	1048.0
50°	985.0	968.8	982.2	1029.0	1074.8	1118.3	1117.9	1073.0	1043.3	998.9	970.2
52.5°	933.6	910.4	923.8	974.8	1020.6	1070.2	1033.6	991.9	956.3	917.4	908.1
55°	870.1	845.1	863.2	937.3	972.5	1001.6	943.3	906.7	871.5	852.1	840.5
57.5°	809.9	782.6	798.4	885.9	911.8	919.2	865.5	813.6	792.8	786.3	769.6
60°	747.9	716.8	731.7	832.6	850.7	820.6	767.8	727.5	723.3	710.4	697.4
62.5°	688.6	654.3	663.6	766.4	774.7	720.1	671.5	660.8	650.6	637.7	630.7
65°	620.5	584.9	597.8	696.0	688.1	617.7	590.4	588.1	574.7	564.0	574.2
67.5°	558.0	515.9	533.9	619.1	583.5	526.1	514.9	509.4	498.7	504.8	397.8
70°	489.5	443.6	468.2	536.2	483.5	445.5	441.3	433.0	433.4	344.5	290.4
72.5°	413.1	373.2	408.9	445.5	382.5	371.4	365.4	364.4	294.1	238.9	225.5
75°	345.9	305.6	344.1	358.0	304.7	297.3	296.8	245.4	193.1	184.3	180.1
77.5°	270.0	238.9	275.5	254.7	233.9	225.5	202.4	151.9	145.4	139.4	52.3
80°	182.0	184.3	205.6	175.5	166.7	142.2	112.1	107.4	92.6	37.0	29.2
82.5°	110.7	138.9	131.1	109.8	107.4	77.3	70.9	36.1	26.9	21.3	18.5
85°	57.4	70.4	67.6	59.7	44.5	39.8	22.2	17.1	13.9	10.7	8.8
87.5°	19.4	25.9	25.0	19.9	15.3	12.0	7.9	6.5	4.6	3.7	3.2
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: 2SNLED-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1555.0	1555.0	1554.1	1555.0	1555.5	1554.6	1554.6	1555.5	1556.0	1556.4	1558.7
5°	1557.3	1558.3	1559.7	1562.4	1562.9	1568.5	1570.8	1572.2	1573.5	1574.0	1570.8
7.5°	1562.4	1565.7	1568.5	1568.0	1564.7	1556.0	1553.2	1550.9	1555.0	1565.7	1578.2
10°	1567.1	1552.2	1524.5	1562.4	1550.9	1561.5	1593.0	1599.9	1621.2	1651.3	1660.1
12.5°	1535.1	1575.9	1584.7	1542.1	1620.8	1591.6	1626.3	1656.9	1665.7	1696.3	1677.7
15°	1569.4	1589.3	1602.7	1645.3	1640.7	1665.7	1675.4	1669.4	1670.8	1678.7	1699.5
17.5°	1568.9	1608.7	1617.5	1646.3	1665.7	1666.2	1663.4	1660.6	1668.0	1674.0	1661.5
20°	1595.8	1608.7	1625.9	1637.5	1641.2	1645.8	1654.6	1647.6	1633.7	1620.3	1614.8
22.5°	1582.3	1611.5	1626.3	1628.2	1625.9	1611.5	1598.6	1579.1	1572.6	1565.7	1568.0
25°	1585.1	1598.6	1596.7	1589.3	1579.6	1552.7	1546.2	1537.9	1525.4	1495.3	1468.0
27.5°	1565.2	1558.3	1549.9	1531.9	1514.3	1499.9	1483.7	1456.9	1434.6	1402.2	1390.2
30°	1531.9	1504.1	1483.7	1473.1	1455.9	1431.8	1407.3	1374.4	1346.2	1339.7	1333.7
32.5°	1468.0	1440.6	1424.0	1398.0	1368.9	1340.2	1311.9	1298.9	1292.9	1293.8	1288.3
35°	1402.7	1378.6	1353.6	1314.7	1292.9	1264.2	1254.0	1251.2	1245.7	1239.7	1233.2
37.5°	1333.2	1305.0	1267.5	1244.3	1222.5	1211.0	1205.9	1201.7	1192.0	1181.3	1173.9
40°	1266.1	1215.1	1194.3	1171.6	1165.1	1160.0	1152.6	1142.4	1129.0	1127.1	1123.9
42.5°	1176.2	1139.6	1121.6	1117.0	1109.1	1100.3	1093.8	1082.7	1077.1	1080.8	1083.6
45°	1091.0	1072.5	1066.5	1060.9	1046.1	1033.6	1029.4	1025.7	1030.4	1050.7	1002.1
47.5°	1022.0	1014.6	1007.2	997.9	984.0	974.8	979.0	982.7	986.8	837.2	764.1
50°	962.3	952.1	940.5	930.3	922.0	921.1	942.8	877.5	734.9	731.2	657.1
52.5°	897.0	881.7	874.8	868.7	872.4	886.3	733.5	680.7	652.9	567.3	529.3
55°	826.6	813.2	813.2	818.7	798.8	647.4	639.5	552.9	500.6	485.8	479.8
57.5°	756.2	754.8	762.7	697.4	587.6	563.6	473.7	454.7	446.4	444.6	434.8
60°	691.8	704.8	590.0	542.7	471.9	425.6	412.6	410.3	401.5	398.2	389.5
62.5°	640.4	531.2	494.6	403.8	380.2	374.2	367.2	364.0	356.1	314.4	92.2
65°	462.6	437.1	354.7	339.4	337.6	328.8	326.0	293.1	69.0	46.3	39.4
67.5°	349.2	309.8	299.2	296.4	287.6	270.0	80.1	45.8	39.4	34.3	30.1
70°	268.1	261.2	253.3	246.8	72.7	45.4	39.4	33.3	28.7	25.5	23.2
72.5°	219.5	214.9	125.0	47.7	38.9	32.9	29.2	25.5	22.2	20.4	18.5
75°	171.8	47.7	39.4	32.9	28.2	24.1	21.3	19.0	17.1	15.7	14.4
77.5°	38.9	31.5	26.9	22.7	20.4	18.1	16.2	13.9	12.5	11.1	9.3
80°	24.1	20.8	17.6	16.2	13.9	11.6	10.2	9.3	7.4	6.9	6.0
82.5°	15.7	12.5	11.1	9.3	7.4	6.9	6.0	4.6	4.2	3.7	3.2
85°	6.9	6.0	5.1	4.2	3.2	2.8	2.3	1.9	1.9	1.9	1.9
87.5°	2.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1559.7	1568.0	1575.9	1573.5	1565.2	1552.2	1548.5	1543.4	1547.2	1555.0	1558.3
5°	1570.8	1566.1	1582.8	1607.4	1647.2	1650.9	1678.7	1685.2	1707.4	1721.3	1720.8
7.5°	1586.5	1652.3	1679.6	1709.2	1722.7	1719.4	1723.6	1720.3	1715.3	1712.9	1710.2
10°	1666.6	1716.6	1726.8	1726.8	1706.0	1677.7	1665.7	1644.9	1603.2	1604.1	1597.2
12.5°	1713.4	1731.0	1706.9	1686.5	1602.7	1570.3	1535.1	1518.4	1508.7	1493.9	1499.5
15°	1688.9	1663.8	1649.5	1583.7	1532.3	1474.0	1474.9	1464.7	1454.1	1455.0	1448.1
17.5°	1652.7	1632.8	1530.9	1485.6	1460.6	1437.9	1433.7	1420.3	1413.3	1411.0	1410.5
20°	1603.2	1531.4	1455.5	1444.3	1414.2	1388.3	1384.1	1388.3	1409.6	1371.6	1242.9
22.5°	1545.3	1442.0	1419.8	1388.3	1367.9	1357.8	1383.2	1267.5	1092.4	1113.7	1091.0
25°	1447.1	1402.2	1364.2	1340.2	1337.8	1275.3	1062.8	1040.5	928.0	867.8	800.2
27.5°	1375.3	1355.9	1316.1	1311.9	1281.8	1042.9	932.2	809.9	765.0	758.1	743.2
30°	1331.8	1304.0	1280.0	1174.8	1022.9	839.6	747.9	730.7	722.9	714.5	701.6
32.5°	1279.5	1253.1	1264.7	987.8	815.5	722.9	704.3	691.8	677.5	671.9	625.2
35°	1226.2	1214.2	988.2	830.3	701.1	678.9	665.0	652.0	518.7	125.5	42.6
37.5°	1169.3	1166.5	888.2	689.1	656.6	635.8	596.4	123.2	29.2	19.9	14.8
40°	1124.8	888.7	702.0	646.0	619.6	586.7	82.4	20.4	13.0	7.9	5.1
42.5°	1095.2	799.3	628.4	606.2	548.8	60.7	20.8	8.8	5.1	4.2	3.2
45°	844.2	631.2	587.2	564.0	69.5	20.8	12.0	4.2	3.2	2.8	1.9
47.5°	778.9	573.3	547.4	123.2	23.2	11.1	8.3	2.8	1.9	1.9	1.9
50°	590.0	529.8	435.8	30.1	14.8	7.9	6.0	1.9	1.9	1.9	1.4
52.5°	517.3	489.0	46.8	19.9	11.6	6.0	3.7	1.4	1.4	1.4	1.4
55°	472.8	310.3	27.8	15.3	9.7	5.6	2.3	1.4	1.4	1.4	0.9
57.5°	432.5	41.7	20.4	13.0	8.8	5.1	1.4	1.4	1.4	1.4	0.9
60°	366.8	30.1	16.7	11.6	8.3	4.6	1.4	1.4	1.4	1.4	1.4
62.5°	47.7	23.6	14.4	10.2	6.0	3.7	0.9	1.4	1.4	1.4	1.4
65°	34.7	18.5	13.0	6.9	3.7	1.4	0.9	1.4	1.4	1.4	1.4
67.5°	26.9	15.3	9.7	6.0	3.2	0.9	0.9	1.4	1.4	1.4	1.4
70°	21.3	13.0	7.9	5.1	2.8	0.9	0.9	1.4	1.4	1.4	1.4
72.5°	16.7	9.3	5.6	2.8	1.9	0.9	0.9	1.4	1.4	1.4	1.4
75°	12.5	7.4	4.2	2.3	0.9	0.9	0.9	1.4	1.4	1.4	1.4
77.5°	8.3	4.6	3.2	1.9	1.9	1.9	2.3	2.3	1.4	1.4	1.4
80°	5.6	3.2	2.3	2.3	2.3	1.9	2.3	2.3	1.4	2.3	1.4
82.5°	2.8	2.3	2.3	1.9	1.9	1.4	1.9	1.9	1.9	1.9	1.4
85°	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.4
87.5°	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.9	1.9	1.4
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1554.1	1555.5	1551.8	1571.7	1561.5	1562.4	1566.6	1556.0	1558.3	1550.9	1545.8
5°	1722.7	1725.4	1728.2	1729.1	1731.0	1733.3	1730.5	1729.1	1726.4	1717.1	1707.4
7.5°	1696.3	1693.0	1691.6	1693.5	1696.7	1698.1	1695.8	1699.0	1711.1	1716.2	1719.4
10°	1557.3	1542.5	1552.7	1551.3	1539.7	1578.6	1568.0	1574.0	1578.2	1620.8	1646.7
12.5°	1491.1	1500.4	1482.8	1474.0	1485.6	1493.4	1501.3	1484.6	1507.8	1497.1	1531.4
15°	1435.6	1430.0	1428.1	1428.6	1426.3	1437.4	1440.2	1443.9	1447.1	1461.5	1467.0
17.5°	1410.5	1419.8	1423.5	1426.3	1421.7	1416.6	1411.5	1404.1	1406.4	1402.7	1413.3
20°	1156.3	1125.3	1123.4	1141.5	1121.6	1132.7	1159.6	1339.2	1333.2	1403.1	1379.5
22.5°	965.1	935.9	910.9	889.1	920.1	933.1	983.1	1039.6	1131.3	1117.0	1216.5
25°	788.2	777.5	771.0	767.8	770.1	769.2	780.3	806.7	848.4	946.5	1073.4
27.5°	737.2	732.1	729.8	722.4	728.0	726.1	734.9	740.5	753.0	762.7	803.9
30°	696.9	690.9	686.7	678.9	684.4	684.9	687.7	702.0	707.1	715.5	728.4
32.5°	254.7	150.0	140.8	133.8	146.3	190.8	334.8	585.3	667.8	674.2	689.1
35°	25.0	20.8	18.5	18.5	19.0	20.8	27.8	73.2	133.8	517.3	647.4
37.5°	9.7	8.3	6.9	6.5	6.9	7.9	10.7	13.9	19.0	39.4	175.5
40°	4.2	3.7	3.2	3.2	3.2	3.2	3.7	4.6	6.9	13.0	20.4
42.5°	2.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.2	4.2	8.3
45°	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.3	3.7
47.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9
50°	1.4	1.4	1.4	1.4	0.9	1.4	0.9	1.4	1.4	1.4	1.4
52.5°	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	1.4	1.4	0.9	1.4	0.9	0.9	1.4	1.4	1.4	0.9	0.9
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	1.9
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.8	2.3
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.3	2.3	2.3
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1537.0	1536.5	1546.2	1553.6	1550.9	1553.6	1556.9	1557.3	1558.3	1554.6	1553.2
5°	1688.9	1674.5	1646.7	1626.8	1603.6	1561.5	1540.7	1543.0	1543.4	1542.1	1543.9
7.5°	1718.0	1716.6	1706.9	1702.7	1687.0	1656.9	1608.7	1600.4	1580.0	1567.1	1556.4
10°	1644.9	1678.2	1687.0	1701.8	1711.1	1705.5	1664.8	1658.8	1645.8	1631.0	1634.2
12.5°	1565.7	1593.0	1594.4	1675.0	1693.0	1694.9	1679.1	1687.5	1689.3	1656.0	1636.5
15°	1468.4	1481.4	1508.7	1583.7	1638.4	1672.6	1682.8	1687.5	1664.8	1663.4	1655.5
17.5°	1425.8	1434.2	1446.7	1488.8	1571.7	1622.2	1665.2	1662.0	1670.8	1664.3	1644.4
20°	1372.1	1379.1	1401.3	1422.6	1463.3	1530.5	1611.1	1617.1	1628.7	1627.3	1632.8
22.5°	1371.2	1346.6	1350.3	1367.0	1409.6	1469.8	1555.5	1575.4	1582.8	1587.9	1593.9
25°	1087.8	1282.7	1318.4	1329.0	1356.8	1392.0	1493.0	1500.4	1514.3	1537.0	1553.6
27.5°	942.4	1074.8	1217.4	1291.5	1309.1	1338.3	1398.5	1409.6	1456.9	1462.4	1488.3
30°	743.7	846.0	1059.1	1237.4	1266.5	1286.9	1329.5	1351.7	1372.1	1394.3	1421.7
32.5°	699.7	715.9	834.0	1023.9	1250.8	1235.5	1267.0	1280.4	1302.6	1322.1	1342.0
35°	659.4	670.5	695.5	838.6	1018.8	1193.4	1214.7	1223.5	1236.0	1250.8	1265.1
37.5°	617.3	634.0	651.1	689.5	942.4	1160.0	1159.6	1169.7	1177.2	1189.7	1201.7
40°	112.1	582.1	609.9	634.9	730.7	925.2	1107.7	1112.3	1117.4	1125.3	1137.8
42.5°	18.1	97.2	571.4	595.5	622.8	828.5	1084.1	1065.1	1061.8	1067.4	1078.5
45°	9.3	23.6	114.8	556.2	580.7	660.8	886.3	1032.2	1029.0	1018.3	1020.6
47.5°	6.9	14.8	28.2	192.2	543.7	567.3	817.8	809.0	870.6	988.7	970.6
50°	6.0	10.2	16.7	39.4	480.2	522.4	629.8	735.8	768.3	772.4	914.1
52.5°	5.6	6.9	12.0	25.5	101.0	483.0	512.2	549.2	603.9	721.0	718.2
55°	5.1	6.5	10.2	17.1	35.2	435.3	465.4	472.3	483.9	540.0	614.0
57.5°	2.8	6.0	9.7	14.8	26.4	79.6	422.3	427.9	437.1	439.5	465.9
60°	1.4	5.6	8.8	13.0	19.4	37.0	379.7	386.2	391.8	392.7	401.0
62.5°	0.9	5.1	7.4	12.0	16.2	26.4	89.8	183.4	348.7	348.7	358.4
65°	0.9	3.7	4.6	7.9	14.8	21.8	38.0	44.0	85.7	210.7	314.4
67.5°	0.9	1.4	4.2	6.5	11.1	16.7	27.8	32.4	38.9	44.5	82.4
70°	0.9	0.9	3.7	4.2	6.9	12.5	19.9	22.7	26.4	30.1	34.7
72.5°	0.9	0.9	3.2	3.2	4.6	8.3	15.3	16.7	19.0	21.3	24.5
75°	2.3	1.9	2.8	2.8	3.2	6.5	11.6	13.0	13.9	15.7	18.1
77.5°	2.3	2.3	2.3	2.3	2.3	4.2	7.4	8.3	9.7	10.7	12.5
80°	1.9	1.9	1.9	2.3	2.3	2.8	4.6	5.1	5.6	6.9	7.4
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	3.2	4.2
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9
87.5°	1.4	1.4	1.4	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1552.7	1549.9	1547.6	1549.0	1544.8	1543.0	1544.4	1544.8	1545.8	1548.1	1548.5
5°	1548.5	1547.6	1551.8	1554.1	1553.2	1554.1	1554.1	1552.2	1549.5	1551.3	1547.2
7.5°	1545.8	1539.7	1535.1	1536.0	1531.4	1537.0	1542.1	1549.5	1551.8	1551.8	1547.2
10°	1593.5	1587.0	1561.0	1543.4	1531.9	1521.7	1545.8	1521.2	1532.8	1488.8	1539.3
12.5°	1632.8	1641.6	1630.0	1581.9	1573.5	1543.0	1560.6	1530.5	1521.7	1471.2	1487.4
15°	1648.6	1631.9	1628.2	1614.8	1596.7	1587.9	1540.7	1535.6	1521.2	1526.8	1505.5
17.5°	1634.7	1643.0	1631.9	1623.1	1604.6	1583.7	1555.5	1530.5	1510.6	1466.1	1503.6
20°	1621.2	1632.4	1599.0	1604.6	1606.4	1582.3	1567.5	1546.7	1521.7	1480.0	1447.6
22.5°	1599.0	1591.1	1593.9	1585.6	1578.6	1581.9	1561.5	1547.2	1505.0	1486.0	1442.0
25°	1562.9	1560.1	1567.5	1566.6	1549.9	1544.4	1534.2	1518.9	1502.2	1471.7	1435.6
27.5°	1504.1	1518.4	1531.4	1537.4	1528.6	1513.8	1508.3	1499.5	1487.9	1456.9	1430.0
30°	1442.0	1458.2	1473.1	1486.0	1493.9	1487.4	1482.3	1477.2	1459.6	1439.3	1409.2
32.5°	1371.2	1392.5	1412.9	1428.6	1445.7	1450.8	1447.1	1443.0	1428.1	1409.6	1385.5
35°	1289.2	1318.4	1348.0	1376.3	1383.7	1395.7	1407.8	1400.8	1392.9	1374.4	1352.2
37.5°	1219.8	1240.6	1261.9	1297.6	1323.5	1338.8	1360.1	1362.8	1349.4	1340.6	1311.4
40°	1148.0	1167.0	1198.0	1218.8	1254.5	1272.1	1294.8	1305.0	1301.7	1296.6	1271.2
42.5°	1091.5	1100.7	1121.1	1139.6	1174.8	1211.0	1230.9	1242.0	1253.6	1249.4	1236.4
45°	1031.3	1039.6	1046.6	1062.8	1097.0	1129.0	1153.5	1170.2	1191.0	1200.8	1185.0
47.5°	971.5	973.9	982.2	995.6	1016.0	1040.5	1081.8	1106.8	1126.2	1145.2	1135.0
50°	925.7	917.4	918.8	927.1	943.8	967.8	997.5	1032.7	1054.9	1078.1	1080.4
52.5°	809.0	876.6	860.4	865.0	873.8	885.4	916.4	951.2	978.5	998.4	1018.3
55°	678.9	692.3	822.4	803.9	809.5	819.7	834.0	868.7	895.1	922.9	950.7
57.5°	526.5	626.5	631.6	752.0	749.3	750.2	762.2	782.1	808.5	843.3	866.9
60°	409.4	451.5	533.5	575.1	680.7	684.4	691.4	703.0	725.6	758.5	796.0
62.5°	361.2	366.8	395.9	458.4	527.0	609.9	624.7	626.5	636.7	669.6	713.1
65°	317.2	320.9	329.7	336.2	393.6	473.7	545.0	556.6	563.1	582.6	619.6
67.5°	218.6	276.5	284.3	289.0	294.5	331.6	420.0	478.8	486.2	503.4	535.8
70°	42.1	87.5	239.4	244.5	247.3	255.6	270.0	363.5	412.6	428.8	443.6
72.5°	28.7	33.8	40.8	96.3	203.8	208.4	211.6	223.7	306.6	353.8	361.7
75°	20.8	23.2	27.3	33.8	41.7	135.7	168.1	174.1	180.1	248.7	288.5
77.5°	14.8	16.7	18.5	21.8	25.5	32.9	47.2	130.1	136.1	139.4	196.8
80°	8.3	10.2	12.5	14.4	16.2	18.5	24.1	30.1	67.1	98.2	103.3
82.5°	4.6	5.6	6.5	7.9	8.8	11.1	13.4	16.2	21.3	31.5	66.7
85°	2.3	2.3	2.3	3.2	3.7	5.1	6.0	6.9	9.7	13.4	18.5
87.5°	1.4	1.4	1.9	1.9	1.9	2.3	2.3	2.3	2.8	4.2	6.0
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-LD5-23SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	356°	357°	358°	359°	360°
0°	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1549.0	1547.6	1547.6	1553.2	1551.8
5°	1546.2	1544.8	1544.4	1550.4	1547.6
7.5°	1543.9	1538.8	1537.4	1543.0	1540.7
10°	1534.6	1530.9	1533.3	1531.4	1530.5
12.5°	1518.9	1516.6	1506.9	1507.8	1515.7
15°	1490.7	1499.9	1483.2	1498.1	1501.3
17.5°	1438.8	1459.6	1475.8	1484.6	1486.0
20°	1461.9	1468.9	1460.6	1461.0	1466.6
22.5°	1431.8	1435.1	1437.4	1434.6	1446.7
25°	1383.7	1371.2	1398.0	1403.6	1423.0
27.5°	1368.9	1358.7	1371.2	1370.3	1386.5
30°	1356.8	1323.9	1329.5	1338.3	1358.2
32.5°	1339.7	1287.8	1282.3	1301.7	1323.9
35°	1309.6	1260.5	1247.5	1260.0	1293.4
37.5°	1284.1	1222.5	1196.6	1213.3	1256.8
40°	1246.2	1192.9	1152.6	1167.4	1218.8
42.5°	1200.8	1167.4	1105.4	1115.6	1174.4
45°	1154.9	1125.3	1059.5	1064.6	1134.5
47.5°	1108.2	1080.8	1011.8	1012.8	1083.6
50°	1062.3	1026.2	969.2	953.0	1029.4
52.5°	1002.6	969.2	926.2	899.8	978.0
55°	946.1	908.6	877.1	836.3	919.7
57.5°	891.0	849.3	828.0	775.7	853.5
60°	815.5	795.6	764.1	714.1	793.7
62.5°	738.2	731.7	699.7	647.8	720.1
65°	647.8	663.1	630.3	585.8	643.7
67.5°	562.6	590.0	553.8	526.5	570.1
70°	471.9	503.4	483.0	473.3	491.8
72.5°	382.5	413.1	414.9	408.0	414.0
75°	295.4	329.3	347.8	337.1	338.5
77.5°	224.1	240.3	260.7	269.0	267.2
80°	138.5	166.7	183.4	200.5	194.5
82.5°	69.9	93.5	113.9	132.4	123.6
85°	29.2	37.5	52.3	69.0	66.2
87.5°	8.8	14.8	15.7	22.2	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)