

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-LD5-23SL-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: 4SNLED-LD5-23SL-RM-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

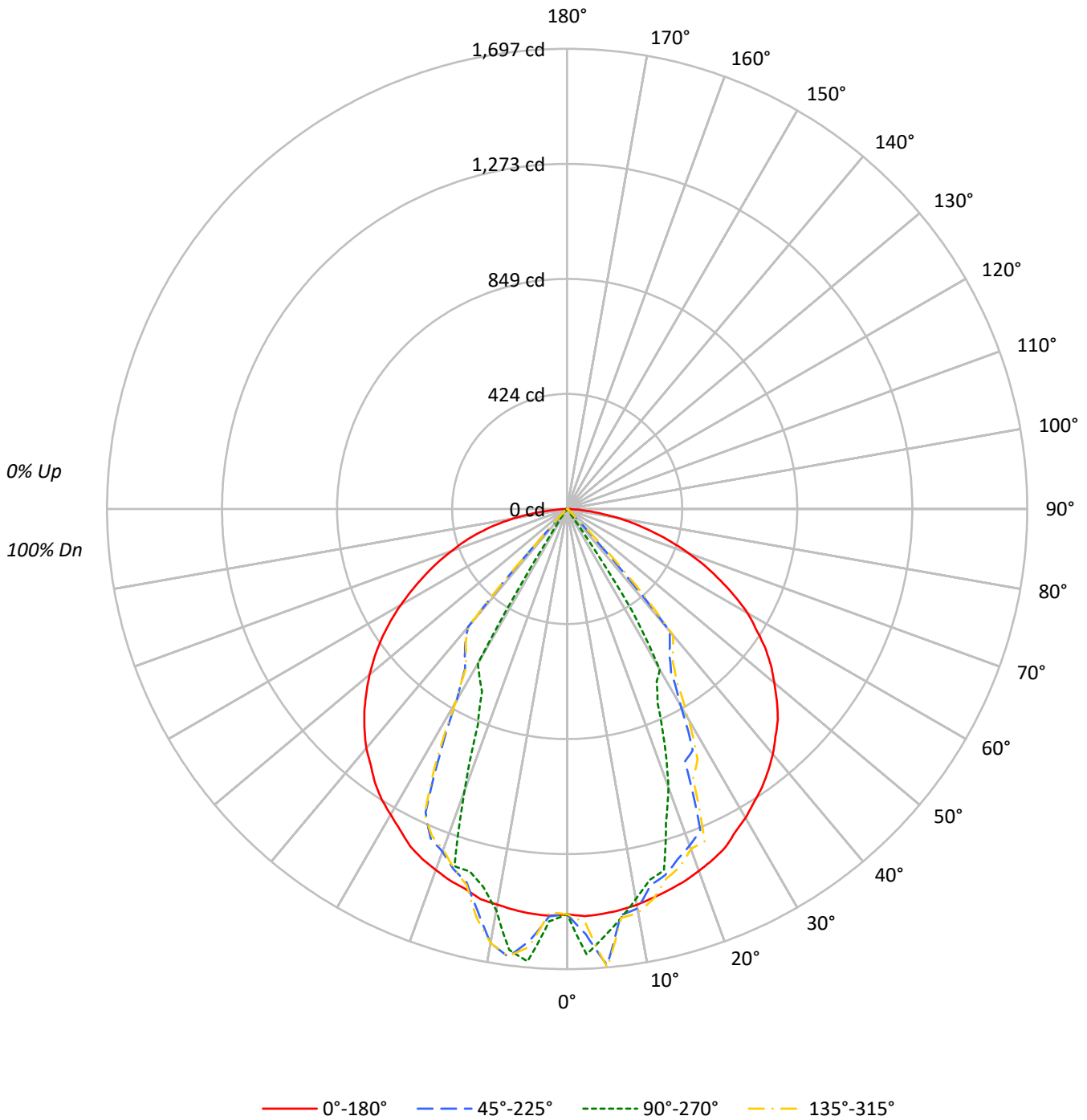
Lumens per Lamp: N/A
Luminaire Lumens: 2124.9 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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: 4SNLED-LD5-23SL-RM-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

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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°	12077	12077	12077	12077
5°	12126	12421	12123	13154
10°	12097	11240	12090	11564
15°	12064	10491	12034	10518
20°	12078	8263	12044	8365
25°	12113	5979	12054	5643
30°	12058	5246	11930	5042
35°	12093	116	11916	140
40°	12135	25	11844	25
45°	12178	15	11720	11
50°	12085	11	11530	11
55°	12014	8	11275	8
60°	11787	9	10866	9
65°	11172	14	10376	10
70°	10364	15	9868	15
75°	9169	17	9317	17
80°	7448	19	7871	19
85°	4379	23	4475	23



TEST NUMBER: P#

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	7.1
10°-20°	409.0	19.2
20°-30°	520.4	24.5
30°-40°	439.6	20.7
40°-50°	287.4	13.5
50°-60°	181.1	8.5
60°-70°	96.4	4.5
70°-80°	35.1	1.7
80°-90°	6.0	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°	1079.3	50.8
0°-40°	1518.9	71.5
0°-60°	1987.4	93.5
0°-90°	2124.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1494	1494	1494	1494	1494	
5°	1499	1582	1498	1675	1499	143
15°	1454	1380	1450	1384	1454	411
25°	1378	788	1372	744	1378	634
35°	1253	15	1234	18	1253	784
45°	1099	2	1058	1	1099	845
55°	891	1	836	1	891	794
65°	623	1	579	1	623	617
75°	328	1	333	1	328	348
85°	64	1	66	1	64	81
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1503.0	1503.9	1504.3	1505.2	1506.6	1507.0	1507.9	1507.0	1507.0	1507.0	1507.0
5°	1498.9	1500.7	1502.1	1503.9	1507.0	1507.5	1511.1	1511.5	1513.3	1516.9	1519.6
7.5°	1492.2	1494.0	1496.7	1501.2	1505.7	1510.6	1516.9	1523.6	1533.0	1542.0	1553.2
10°	1482.3	1484.6	1487.7	1491.8	1513.7	1516.9	1530.8	1550.1	1555.5	1583.7	1604.8
12.5°	1468.0	1475.6	1483.7	1487.3	1508.4	1541.6	1588.2	1578.8	1568.5	1660.9	1659.5
15°	1454.1	1464.4	1460.4	1489.5	1508.8	1566.7	1546.9	1589.1	1666.2	1647.4	1648.3
17.5°	1439.3	1441.5	1464.0	1488.2	1522.7	1552.3	1576.5	1634.4	1649.6	1651.0	1634.4
20°	1420.5	1431.2	1464.0	1485.9	1544.2	1558.1	1610.6	1640.2	1633.9	1618.7	1590.4
22.5°	1401.2	1433.9	1467.1	1498.0	1538.9	1576.1	1602.1	1616.0	1583.3	1523.2	1490.9
25°	1378.3	1397.6	1441.1	1486.4	1537.5	1559.0	1574.3	1551.9	1509.3	1455.4	1401.2
27.5°	1342.9	1373.8	1429.4	1480.6	1526.8	1552.8	1528.1	1474.3	1405.7	1370.2	1345.6
30°	1315.5	1355.9	1401.6	1451.0	1498.9	1514.2	1451.4	1390.0	1342.9	1307.4	1302.0
32.5°	1282.3	1339.7	1383.2	1430.3	1470.7	1450.5	1389.5	1310.1	1271.1	1257.6	1263.0
35°	1252.7	1296.2	1353.2	1399.4	1428.5	1383.2	1286.8	1237.5	1218.6	1226.2	1216.4
37.5°	1217.3	1274.7	1327.2	1367.1	1357.2	1289.0	1207.4	1176.0	1178.3	1172.0	1153.1
40°	1180.5	1235.2	1289.9	1327.6	1293.1	1189.0	1134.7	1128.0	1129.4	1109.2	1082.3
42.5°	1137.4	1187.2	1241.9	1276.0	1201.6	1120.4	1083.6	1084.5	1072.9	1044.6	1030.2
45°	1098.9	1144.6	1201.6	1204.7	1113.2	1045.5	1034.7	1023.1	997.1	987.6	976.9
47.5°	1049.5	1100.2	1147.3	1130.3	1026.7	984.5	976.4	950.9	937.8	930.7	921.7
50°	997.1	1048.2	1091.2	1042.8	945.0	935.2	908.7	888.5	879.5	871.9	863.8
52.5°	947.3	989.4	1033.4	950.0	882.2	872.8	842.8	831.1	822.1	813.6	811.8
55°	890.8	928.0	958.0	861.6	822.1	800.2	778.6	770.6	762.0	758.0	764.7
57.5°	826.6	868.8	864.3	774.6	757.1	725.3	717.2	711.8	705.5	708.2	652.1
60°	768.8	801.1	779.1	710.9	681.3	659.8	652.6	649.0	652.6	597.9	525.7
62.5°	697.4	733.8	689.4	636.4	605.0	594.7	588.5	593.4	540.9	480.8	463.3
65°	623.4	662.9	597.4	556.6	536.9	527.9	527.5	485.7	434.2	410.8	410.8
67.5°	552.1	592.9	508.6	474.5	466.9	467.8	441.8	378.5	364.2	348.5	303.2
70°	476.3	512.2	420.3	399.6	395.1	392.0	328.8	311.7	294.7	253.0	249.4
72.5°	401.0	418.5	337.7	332.8	331.9	275.8	263.3	234.1	214.4	209.5	207.2
75°	327.9	322.5	266.9	271.4	228.7	209.0	188.8	171.8	169.1	167.3	41.7
77.5°	258.8	231.9	210.4	183.0	163.7	139.0	135.0	132.3	87.0	31.4	25.6
80°	188.4	150.3	139.9	118.9	101.4	97.3	99.6	30.5	24.2	20.2	17.5
82.5°	119.8	96.0	78.5	68.6	66.8	29.2	21.5	17.5	15.2	13.0	10.8
85°	64.1	42.6	39.5	33.2	19.7	13.5	11.2	8.5	7.2	5.8	5.4
87.5°	20.2	17.0	13.9	11.2	6.7	4.5	3.6	3.1	2.7	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



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1506.1	1507.0	1506.6	1507.9	1507.9	1509.7	1511.1	1512.4	1515.1	1516.4	1526.8
5°	1525.4	1527.6	1534.4	1540.7	1548.3	1550.5	1563.5	1566.7	1581.9	1583.7	1633.9
7.5°	1568.5	1577.0	1593.1	1609.3	1625.4	1635.7	1653.7	1664.9	1677.0	1687.8	1727.7
10°	1620.5	1634.8	1650.5	1666.7	1676.1	1695.8	1706.6	1708.4	1705.3	1687.8	1623.2
12.5°	1671.6	1686.0	1679.2	1682.4	1693.6	1658.6	1663.5	1638.4	1655.9	1569.4	1505.2
15°	1664.4	1663.5	1647.0	1593.1	1602.1	1535.3	1508.4	1487.7	1504.3	1495.4	1485.5
17.5°	1642.9	1602.1	1573.4	1508.8	1481.5	1462.6	1463.1	1463.5	1455.4	1464.0	1438.8
20°	1551.9	1506.1	1463.5	1440.6	1432.6	1419.1	1425.8	1419.1	1419.6	1422.2	1383.7
22.5°	1430.8	1416.9	1392.2	1399.4	1396.7	1408.8	1399.8	1385.9	1390.4	1370.2	1341.1
25°	1381.9	1365.7	1364.8	1367.5	1363.5	1358.1	1350.0	1329.0	1327.6	1321.3	1307.9
27.5°	1332.5	1333.4	1336.1	1328.1	1313.7	1302.9	1290.8	1280.5	1284.6	1277.4	1259.0
30°	1298.5	1298.0	1281.9	1274.7	1248.2	1248.7	1245.5	1239.3	1235.2	1235.7	1224.0
32.5°	1250.0	1236.1	1217.7	1208.8	1206.5	1198.4	1192.2	1193.5	1196.6	1185.4	1197.5
35°	1200.2	1171.5	1168.8	1161.2	1154.0	1148.7	1150.9	1141.9	1141.5	1140.1	1041.5
37.5°	1133.4	1119.5	1118.2	1110.1	1105.1	1103.8	1095.3	1096.6	1100.7	1107.8	888.1
40°	1078.2	1065.7	1062.5	1062.1	1051.3	1050.4	1052.7	1061.2	1067.0	1022.2	846.4
42.5°	1019.0	1019.9	1010.1	1003.8	1005.1	1009.2	1019.9	990.3	858.0	817.6	773.7
45°	968.3	963.9	958.5	956.7	968.3	960.3	841.9	776.8	761.1	759.3	636.0
47.5°	915.4	914.1	911.8	913.2	846.8	754.9	727.9	719.4	722.1	720.3	546.3
50°	862.0	863.8	863.8	754.4	692.5	677.3	679.5	687.1	639.6	597.0	509.1
52.5°	815.9	801.9	687.1	647.7	633.8	640.5	624.3	564.7	521.6	496.5	470.9
55°	730.2	627.9	602.4	596.1	601.0	541.4	504.6	466.0	454.8	452.1	437.3
57.5°	574.6	553.9	556.2	531.0	474.1	440.4	425.6	420.3	415.3	411.7	35.9
60°	508.2	514.0	470.5	416.7	393.8	389.3	385.7	380.8	379.9	373.6	22.9
62.5°	465.1	409.0	371.4	357.9	352.5	351.2	344.5	342.2	290.6	39.9	17.0
65°	350.7	327.9	320.7	317.6	311.7	311.7	258.8	40.8	33.2	28.7	15.2
67.5°	286.2	284.4	280.8	276.7	188.4	39.5	34.5	30.1	26.0	22.9	13.5
70°	242.2	241.3	219.8	40.4	33.6	29.6	26.0	23.3	21.5	19.3	12.1
72.5°	198.7	40.4	34.1	29.6	25.6	23.3	21.1	18.8	17.0	15.7	9.9
75°	30.9	27.4	24.2	22.0	20.2	17.9	16.1	14.8	14.4	12.6	6.7
77.5°	22.4	19.3	17.5	15.7	13.9	12.6	10.8	9.4	8.5	7.2	4.9
80°	15.7	13.9	12.6	10.3	9.0	7.6	6.7	5.8	5.4	4.5	2.2
82.5°	9.0	7.6	6.7	5.4	4.9	4.0	3.6	3.1	3.1	2.2	2.2
85°	4.0	4.0	3.1	2.7	2.2	2.2	2.2	1.8	1.8	1.3	1.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.3	1.3	1.3	1.3	1.3	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°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1541.1	1546.9	1558.1	1569.8	1556.8	1603.4	1599.9	1615.6	1624.1	1628.1	1637.5
5°	1678.4	1704.4	1712.9	1687.3	1672.5	1657.3	1622.7	1596.7	1599.9	1591.3	1560.4
7.5°	1675.7	1620.0	1545.1	1511.1	1508.4	1504.3	1515.1	1521.4	1522.3	1521.8	1520.9
10°	1533.9	1505.2	1500.3	1495.8	1497.6	1481.0	1473.4	1451.8	1463.5	1457.2	1459.5
12.5°	1490.9	1484.1	1457.7	1420.9	1442.9	1426.3	1416.9	1423.1	1416.0	1409.2	1407.0
15°	1465.3	1421.8	1407.0	1398.0	1391.7	1388.2	1391.3	1384.1	1381.9	1380.5	1383.7
17.5°	1412.4	1394.9	1378.7	1355.0	1355.4	1354.1	1363.0	1376.5	1377.4	1308.3	1246.0
20°	1370.7	1356.3	1335.7	1320.9	1341.1	1305.2	1166.6	1100.7	1090.3	1090.3	1092.1
22.5°	1337.5	1305.6	1307.0	1283.7	1094.8	1056.3	1057.2	1061.2	1042.8	980.0	973.3
25°	1292.2	1287.2	1189.0	1027.6	1028.9	998.8	952.7	887.6	817.2	817.2	805.5
27.5°	1258.1	1153.6	1010.1	1003.3	902.4	838.7	799.3	739.6	731.5	723.9	724.8
30°	1228.9	976.0	979.6	838.7	764.3	711.3	708.2	698.3	693.4	692.1	687.1
32.5°	971.5	950.4	819.9	714.0	684.9	676.4	672.3	661.1	660.7	652.1	592.9
35°	910.9	834.2	686.2	657.5	649.0	640.9	634.2	425.6	50.2	20.2	17.5
37.5°	841.9	697.0	634.7	621.6	613.6	453.5	45.3	15.7	11.2	8.1	7.2
40°	713.6	622.5	602.8	588.5	242.6	15.7	9.9	7.6	4.5	4.0	3.6
42.5°	601.9	586.7	565.6	172.2	17.9	7.6	4.9	3.6	3.1	3.1	2.7
45°	563.3	549.9	227.8	17.0	11.2	3.6	3.1	3.1	2.7	1.8	1.8
47.5°	527.5	464.2	20.6	10.8	7.2	3.1	2.7	1.8	1.8	1.8	1.3
50°	489.3	25.6	14.4	8.1	4.5	1.8	1.8	1.8	1.8	1.3	1.3
52.5°	91.5	17.9	11.7	7.2	2.2	1.8	1.8	1.8	1.3	1.3	1.3
55°	21.5	14.4	10.8	6.3	1.8	1.8	1.8	1.3	1.3	1.3	0.9
57.5°	16.1	10.8	8.5	5.8	1.8	1.3	1.3	1.3	1.3	1.3	0.9
60°	13.5	7.6	6.7	5.4	1.3	1.3	1.3	1.3	1.3	1.3	0.9
62.5°	9.4	6.3	4.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	7.6	4.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	6.7	4.0	2.7	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	5.4	1.3	1.3	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	4.5	1.3	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	4.5	2.2	0.9	0.9	1.3	1.3	1.8	1.8	1.3	1.3	1.3
77.5°	3.1	2.2	0.9	0.9	1.3	1.3	1.8	1.8	1.3	1.3	1.3
80°	1.8	2.2	0.9	1.3	1.3	2.7	3.1	1.8	1.3	1.3	1.3
82.5°	1.8	2.2	2.7	2.7	1.3	2.2	2.7	2.2	1.8	1.3	1.3
85°	1.8	1.3	1.8	2.2	1.3	2.2	2.2	1.8	1.8	1.3	1.3
87.5°	0.9	1.3	1.3	1.8	1.8	1.8	2.2	1.8	1.8	1.8	1.3
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1642.0	1643.8	1615.6	1605.7	1614.2	1612.4	1604.8	1576.5	1573.4	1554.6	1527.2
5°	1569.4	1581.5	1566.7	1592.2	1580.1	1592.2	1629.0	1646.1	1673.9	1690.9	1697.2
7.5°	1518.7	1521.4	1521.4	1523.6	1525.9	1526.3	1523.6	1521.8	1514.2	1504.8	1521.8
10°	1457.2	1460.4	1465.8	1464.9	1464.4	1473.8	1476.1	1495.4	1494.5	1498.0	1511.1
12.5°	1425.4	1401.2	1423.1	1417.3	1425.4	1412.8	1436.2	1432.1	1433.5	1444.2	1472.0
15°	1372.5	1380.1	1385.5	1385.5	1388.6	1385.9	1383.2	1401.6	1412.8	1413.3	1411.5
17.5°	1270.6	1212.8	1272.0	1256.7	1378.3	1381.4	1371.1	1362.6	1362.6	1369.3	1383.7
20°	1090.8	1092.1	1092.6	1098.4	1105.6	1105.1	1105.6	1282.3	1366.2	1346.9	1333.9
22.5°	956.2	939.6	970.6	968.3	1006.9	1049.5	1090.3	1086.3	1089.0	1213.7	1325.8
25°	766.5	788.0	770.6	778.2	821.7	872.4	903.8	985.8	1075.1	1068.8	1098.0
27.5°	721.7	715.8	723.9	723.9	729.7	736.5	754.0	800.2	879.5	963.0	1041.9
30°	679.1	684.0	684.9	693.0	697.4	701.9	704.6	722.1	740.1	797.9	895.2
32.5°	510.0	447.2	588.5	626.6	658.9	666.5	671.9	679.1	692.1	700.6	749.5
35°	14.8	14.8	15.7	17.9	22.9	154.3	587.6	647.7	656.2	666.9	675.9
37.5°	7.2	5.4	6.3	6.7	8.1	11.2	16.1	50.2	559.3	632.4	642.3
40°	3.1	3.1	3.1	3.1	3.6	4.5	6.7	11.2	17.0	449.9	606.8
42.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.1	4.0	8.1	19.3	318.4
45°	1.8	1.8	1.3	1.8	1.8	2.2	2.7	2.7	3.6	12.1	22.0
47.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.7	8.1	11.7
50°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	6.3	8.1
52.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	7.2
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	6.3
57.5°	0.9	0.9	0.9	0.9	0.9	1.3	0.9	0.9	1.3	1.3	5.8
60°	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	5.4
62.5°	1.3	1.3	0.9	1.3	0.9	0.9	1.3	1.3	1.3	1.3	3.6
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	1.3
67.5°	1.3	1.3	1.3	1.3	0.9	1.3	0.9	1.3	1.3	0.9	0.9
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	0.9	0.9	0.9
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.7	2.2	2.2	0.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.2	2.2	2.2	3.1
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8	2.2
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.3	1.8
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.3	1.3	1.3
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1529.4	1514.2	1509.3	1498.9	1498.0	1498.9	1496.7	1493.6	1495.4	1492.2	1489.5
5°	1700.8	1660.0	1633.5	1598.1	1549.2	1538.4	1535.7	1520.5	1515.1	1513.3	1506.1
7.5°	1562.2	1636.6	1681.5	1696.7	1639.3	1625.9	1610.2	1597.6	1585.5	1562.6	1548.7
10°	1500.7	1504.3	1547.4	1597.6	1679.2	1690.5	1699.0	1671.6	1664.0	1605.7	1593.1
12.5°	1486.4	1486.8	1491.8	1522.3	1586.4	1593.6	1623.6	1639.8	1659.5	1670.7	1661.8
15°	1420.9	1457.2	1484.1	1486.8	1492.7	1505.2	1514.2	1570.3	1594.0	1657.7	1654.1
17.5°	1390.4	1402.1	1441.1	1472.9	1467.5	1463.1	1470.2	1477.9	1500.7	1564.4	1563.5
20°	1339.7	1376.9	1398.0	1431.2	1461.3	1462.6	1454.5	1450.1	1441.1	1451.4	1460.8
22.5°	1318.2	1324.0	1363.5	1386.8	1420.9	1433.0	1434.8	1435.3	1430.3	1424.9	1422.2
25°	1315.9	1297.6	1317.7	1346.9	1372.0	1385.0	1399.8	1404.8	1403.0	1403.0	1400.3
27.5°	1076.9	1291.7	1281.0	1300.3	1330.8	1339.7	1347.3	1362.6	1372.0	1378.7	1381.9
30°	1025.8	1064.3	1252.3	1255.0	1285.9	1285.0	1293.5	1306.1	1318.2	1333.9	1337.9
32.5°	907.4	1002.0	1146.4	1209.7	1241.9	1245.1	1249.6	1253.2	1264.4	1281.9	1297.1
35°	727.0	912.7	982.3	1188.1	1194.0	1200.2	1202.9	1211.4	1215.0	1222.2	1235.7
37.5°	658.0	754.4	942.3	1027.6	1138.8	1144.2	1158.5	1162.1	1167.9	1173.8	1184.1
40°	618.1	644.5	784.5	917.7	1094.4	1098.0	1102.9	1111.9	1112.3	1119.1	1128.5
42.5°	586.2	603.3	644.1	876.4	1063.0	1062.5	1050.9	1056.7	1059.4	1066.6	1079.6
45°	468.3	566.0	592.0	715.8	846.4	907.4	1024.4	1005.1	1004.7	1007.4	1021.3
47.5°	23.8	532.4	550.8	590.7	799.3	801.5	816.7	945.0	964.8	958.5	959.8
50°	16.1	36.8	513.1	531.5	688.9	744.5	755.8	761.6	835.6	918.1	904.7
52.5°	12.6	21.1	314.4	493.4	559.7	600.6	672.8	714.0	718.5	751.7	864.3
55°	11.2	16.1	34.1	455.2	475.9	484.8	527.0	599.2	657.5	675.0	676.4
57.5°	9.9	14.8	23.3	205.9	432.8	434.6	441.8	466.9	519.4	567.4	621.6
60°	9.0	13.0	18.4	35.4	393.3	397.8	399.2	405.9	412.2	444.9	507.3
62.5°	5.4	10.3	16.1	25.6	311.3	357.5	357.0	361.5	367.3	370.9	383.5
65°	4.5	8.1	13.9	21.5	38.1	47.5	288.8	321.1	324.7	329.7	331.9
67.5°	4.0	7.2	10.3	17.0	28.7	32.7	37.7	46.6	254.8	287.1	291.5
70°	3.6	4.9	8.5	14.4	23.3	25.1	28.3	32.3	38.1	47.1	230.5
72.5°	2.2	3.6	5.8	10.3	17.9	20.2	22.0	24.7	27.4	32.7	37.7
75°	0.9	2.7	4.9	7.6	13.9	15.2	16.6	18.4	20.6	24.2	26.9
77.5°	0.9	2.2	4.0	5.4	9.0	10.3	12.1	13.5	15.2	17.0	19.7
80°	3.1	1.8	2.7	4.0	6.3	6.7	7.6	8.5	9.9	11.2	13.0
82.5°	2.2	2.7	3.1	2.7	3.1	4.0	4.5	5.4	5.8	6.7	7.2
85°	1.8	1.8	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.1	4.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1489.5	1488.6	1485.9	1485.9	1485.5	1487.3	1488.6	1490.0	1489.5	1492.2	1489.5
5°	1500.7	1498.5	1494.5	1490.9	1489.5	1490.4	1489.1	1490.4	1488.6	1490.9	1486.8
7.5°	1531.7	1524.1	1508.4	1502.1	1494.0	1493.6	1489.5	1488.6	1485.9	1485.9	1481.0
10°	1586.4	1549.6	1545.1	1526.3	1519.6	1486.8	1494.0	1481.9	1480.6	1474.7	1472.5
12.5°	1631.3	1602.6	1594.0	1577.4	1558.6	1492.2	1507.0	1481.0	1479.7	1468.0	1455.9
15°	1632.2	1648.7	1625.4	1579.7	1575.6	1529.9	1499.8	1490.9	1479.2	1444.2	1450.1
17.5°	1579.7	1617.8	1629.0	1619.1	1590.4	1559.5	1517.3	1499.4	1464.4	1448.7	1437.9
20°	1494.5	1533.0	1581.0	1584.2	1602.1	1580.1	1525.0	1495.8	1453.6	1426.3	1417.3
22.5°	1426.7	1455.0	1510.2	1535.7	1557.7	1565.3	1530.3	1487.3	1434.8	1408.3	1403.0
25°	1390.9	1397.1	1413.7	1443.8	1492.2	1527.2	1532.1	1486.4	1459.0	1401.2	1370.7
27.5°	1377.8	1372.5	1365.7	1381.0	1417.3	1459.9	1488.2	1495.8	1427.6	1372.5	1342.0
30°	1344.7	1347.8	1337.5	1332.1	1355.9	1399.8	1450.1	1462.6	1410.1	1353.2	1318.2
32.5°	1303.8	1309.2	1311.0	1301.6	1296.7	1327.2	1381.4	1411.5	1408.8	1325.8	1286.8
35°	1252.7	1268.0	1272.0	1272.4	1264.4	1259.4	1290.8	1353.2	1376.9	1313.3	1256.7
37.5°	1198.9	1203.4	1225.3	1231.2	1231.2	1216.4	1239.7	1289.5	1322.7	1285.0	1220.0
40°	1131.6	1146.0	1166.6	1176.9	1187.2	1188.6	1175.6	1210.5	1265.3	1255.8	1185.4
42.5°	1082.7	1092.1	1104.7	1118.6	1139.7	1145.1	1131.6	1137.9	1194.8	1219.5	1140.6
45°	1025.8	1038.3	1041.9	1057.2	1079.1	1094.8	1094.4	1081.4	1127.1	1157.6	1107.8
47.5°	967.5	979.6	985.8	993.5	1009.6	1029.8	1041.0	1035.2	1044.1	1103.8	1064.3
50°	907.4	914.1	926.6	935.2	945.9	957.6	984.5	989.9	977.3	1024.9	1016.3
52.5°	850.4	852.6	861.2	869.7	884.0	892.5	914.1	930.2	929.3	943.2	963.0
55°	806.0	796.1	797.9	804.6	814.1	827.1	839.2	864.3	872.8	875.5	906.9
57.5°	629.7	731.1	740.1	739.6	750.8	756.6	767.9	784.5	815.0	808.2	843.2
60°	572.3	583.5	668.3	678.2	682.2	687.6	701.0	716.3	738.7	753.1	768.3
62.5°	436.4	504.6	530.1	605.0	616.7	619.9	628.8	636.0	659.3	692.1	685.8
65°	337.7	366.9	444.9	475.4	539.1	547.2	559.7	567.4	574.1	611.8	613.6
67.5°	292.0	296.5	317.6	376.3	416.7	479.0	486.6	493.4	503.7	530.6	547.2
70°	249.4	254.8	260.6	265.5	318.0	359.3	417.1	419.4	426.1	444.0	481.7
72.5°	47.1	213.0	216.6	219.8	225.6	253.0	308.1	353.0	355.7	364.2	398.7
75°	31.8	37.2	51.1	175.8	181.6	183.4	192.9	248.9	290.2	292.0	307.2
77.5°	22.9	25.6	30.9	36.8	93.7	140.8	143.1	153.4	196.0	226.9	229.6
80°	15.7	17.5	20.6	23.3	28.7	37.7	104.1	107.2	112.6	155.2	163.3
82.5°	9.0	10.3	12.1	14.8	17.0	21.5	27.8	35.9	73.1	78.0	103.6
85°	4.5	4.9	5.8	7.2	8.5	10.3	13.9	17.0	23.3	42.2	43.5
87.5°	2.2	2.2	2.2	2.2	3.6	4.0	4.9	6.3	8.1	12.1	15.7
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1490.0	1496.3	1501.6	1503.0	1503.0	1503.9	1505.2	1506.1	1507.0	1507.9	1507.0
5°	1487.3	1494.0	1498.5	1499.8	1499.8	1502.5	1504.8	1507.5	1508.8	1508.8	1507.9
7.5°	1480.6	1485.5	1491.3	1494.9	1495.4	1499.8	1503.9	1503.4	1505.2	1506.1	1508.4
10°	1471.6	1471.6	1481.5	1484.1	1486.4	1491.3	1492.7	1495.4	1501.6	1502.5	1508.4
12.5°	1467.1	1462.6	1474.3	1475.6	1483.2	1477.0	1485.0	1487.7	1481.5	1490.0	1478.8
15°	1446.9	1452.3	1450.5	1454.5	1468.0	1460.8	1482.8	1475.6	1491.8	1472.5	1506.6
17.5°	1430.3	1429.4	1436.6	1440.2	1442.9	1458.1	1464.0	1472.0	1478.3	1472.9	1486.4
20°	1418.2	1411.0	1416.4	1420.5	1429.9	1441.5	1445.1	1433.0	1454.1	1490.0	1498.5
22.5°	1395.3	1390.4	1396.7	1396.7	1411.0	1409.2	1422.7	1415.1	1434.8	1476.5	1520.0
25°	1364.4	1364.8	1371.6	1379.6	1382.3	1402.5	1409.7	1419.6	1444.2	1494.0	1520.5
27.5°	1333.0	1330.3	1334.3	1350.9	1364.8	1379.6	1381.9	1415.5	1449.2	1483.2	1506.6
30°	1301.6	1298.9	1301.6	1313.7	1330.3	1340.2	1364.8	1409.7	1441.1	1464.4	1486.4
32.5°	1268.0	1265.3	1271.5	1280.5	1309.7	1311.0	1359.9	1402.1	1426.7	1443.8	1439.7
35°	1232.1	1228.5	1234.3	1248.2	1275.1	1285.0	1336.1	1367.5	1395.3	1403.4	1384.6
37.5°	1189.0	1182.7	1189.9	1209.2	1237.5	1266.2	1308.8	1345.1	1359.9	1338.4	1315.9
40°	1144.2	1139.7	1152.2	1162.1	1195.3	1235.2	1284.1	1309.7	1300.3	1275.6	1250.9
42.5°	1104.2	1094.8	1106.0	1124.9	1162.6	1207.9	1247.3	1261.7	1239.3	1202.9	1174.2
45°	1055.4	1044.1	1057.6	1082.7	1123.1	1174.7	1205.6	1200.7	1162.6	1131.2	1091.7
47.5°	1004.2	990.8	1004.2	1034.3	1079.6	1134.3	1156.7	1134.3	1086.3	1046.8	1015.0
50°	954.0	938.3	951.3	996.6	1041.0	1083.2	1082.7	1039.2	1010.5	967.5	939.6
52.5°	904.2	881.8	894.8	944.1	988.5	1036.5	1001.1	960.7	926.2	888.5	879.5
55°	842.8	818.5	836.0	907.8	941.9	970.1	913.6	878.2	844.1	825.3	814.1
57.5°	784.5	758.0	773.2	858.0	883.1	890.3	838.3	788.0	767.9	761.6	745.4
60°	724.4	694.3	708.7	806.4	823.9	794.8	743.6	704.6	700.6	688.0	675.5
62.5°	666.9	633.8	642.7	742.3	750.4	697.4	650.3	640.0	630.2	617.6	610.9
65°	601.0	566.5	579.0	674.1	666.5	598.3	571.9	569.6	556.6	546.3	556.2
67.5°	540.5	499.6	517.1	599.7	565.1	509.5	498.8	493.4	483.1	488.9	385.3
70°	474.1	429.7	453.5	519.4	468.3	431.5	427.4	419.4	419.8	333.7	281.2
72.5°	400.1	361.5	396.0	431.5	370.5	359.7	353.9	353.0	284.8	231.4	218.4
75°	335.0	296.0	333.2	346.7	295.1	287.9	287.5	237.7	187.0	178.5	174.5
77.5°	261.5	231.4	266.9	246.7	226.5	218.4	196.0	147.1	140.8	135.0	50.7
80°	176.3	178.5	199.1	170.0	161.5	137.7	108.5	104.1	89.7	35.9	28.3
82.5°	107.2	134.6	126.9	106.3	104.1	74.9	68.6	35.0	26.0	20.6	17.9
85°	55.6	68.2	65.5	57.9	43.1	38.6	21.5	16.6	13.5	10.3	8.5
87.5°	18.8	25.1	24.2	19.3	14.8	11.7	7.6	6.3	4.5	3.6	3.1
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1506.1	1506.1	1505.2	1506.1	1506.6	1505.7	1505.7	1506.6	1507.0	1507.5	1509.7
5°	1508.4	1509.3	1510.6	1513.3	1513.7	1519.1	1521.4	1522.7	1524.1	1524.5	1521.4
7.5°	1513.3	1516.4	1519.1	1518.7	1515.5	1507.0	1504.3	1502.1	1506.1	1516.4	1528.5
10°	1517.8	1503.4	1476.5	1513.3	1502.1	1512.4	1542.9	1549.6	1570.3	1599.4	1607.9
12.5°	1486.8	1526.3	1534.8	1493.6	1569.8	1541.6	1575.2	1604.8	1613.3	1642.9	1625.0
15°	1520.0	1539.3	1552.3	1593.6	1589.1	1613.3	1622.7	1616.9	1618.2	1625.9	1646.1
17.5°	1519.6	1558.1	1566.7	1594.5	1613.3	1613.8	1611.1	1608.4	1615.6	1621.4	1609.3
20°	1545.6	1558.1	1574.7	1586.0	1589.5	1594.0	1602.6	1595.8	1582.4	1569.4	1564.0
22.5°	1532.6	1560.8	1575.2	1577.0	1574.7	1560.8	1548.3	1529.4	1523.2	1516.4	1518.7
25°	1535.3	1548.3	1546.5	1539.3	1529.9	1503.9	1497.6	1489.5	1477.4	1448.3	1421.8
27.5°	1516.0	1509.3	1501.2	1483.7	1466.7	1452.7	1437.0	1411.0	1389.5	1358.1	1346.4
30°	1483.7	1456.8	1437.0	1426.7	1410.1	1386.8	1363.0	1331.2	1303.8	1297.6	1291.7
32.5°	1421.8	1395.3	1379.2	1354.1	1325.8	1298.0	1270.6	1258.1	1252.3	1253.2	1247.8
35°	1358.6	1335.2	1311.0	1273.3	1252.3	1224.5	1214.6	1211.9	1206.5	1200.7	1194.4
37.5°	1291.3	1263.9	1227.6	1205.2	1184.1	1172.9	1167.9	1163.9	1154.5	1144.2	1137.0
40°	1226.2	1176.9	1156.7	1134.7	1128.5	1123.5	1116.4	1106.5	1093.5	1091.7	1088.6
42.5°	1139.2	1103.8	1086.3	1081.8	1074.2	1065.7	1059.4	1048.6	1043.3	1046.8	1049.5
45°	1056.7	1038.8	1032.9	1027.6	1013.2	1001.1	997.1	993.5	998.0	1017.7	970.6
47.5°	989.9	982.7	975.5	966.6	953.1	944.1	948.2	951.8	955.8	810.9	740.1
50°	932.0	922.2	910.9	901.1	893.0	892.1	913.2	849.9	711.8	708.2	636.4
52.5°	868.8	854.0	847.2	841.4	845.0	858.5	710.5	659.3	632.4	549.4	512.7
55°	800.6	787.6	787.6	793.0	773.7	627.0	619.4	535.5	484.8	470.5	464.7
57.5°	732.4	731.1	738.7	675.5	569.2	545.8	458.8	440.4	432.4	430.6	421.2
60°	670.1	682.6	571.4	525.7	457.0	412.2	399.6	397.4	388.9	385.7	377.2
62.5°	620.3	514.4	479.0	391.1	368.2	362.4	355.7	352.5	344.9	304.5	89.3
65°	448.1	423.4	343.6	328.8	327.0	318.4	315.8	283.9	66.8	44.9	38.1
67.5°	338.2	300.1	289.7	287.1	278.5	261.5	77.6	44.4	38.1	33.2	29.2
70°	259.7	253.0	245.3	239.1	70.4	44.0	38.1	32.3	27.8	24.7	22.4
72.5°	212.6	208.1	121.1	46.2	37.7	31.8	28.3	24.7	21.5	19.7	17.9
75°	166.4	46.2	38.1	31.8	27.4	23.3	20.6	18.4	16.6	15.2	13.9
77.5°	37.7	30.5	26.0	22.0	19.7	17.5	15.7	13.5	12.1	10.8	9.0
80°	23.3	20.2	17.0	15.7	13.5	11.2	9.9	9.0	7.2	6.7	5.8
82.5°	15.2	12.1	10.8	9.0	7.2	6.7	5.8	4.5	4.0	3.6	3.1
85°	6.7	5.8	4.9	4.0	3.1	2.7	2.2	1.8	1.8	1.8	1.8
87.5°	2.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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: 4SNLED-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1510.6	1518.7	1526.3	1524.1	1516.0	1503.4	1499.8	1494.9	1498.5	1506.1	1509.3
5°	1521.4	1516.9	1533.0	1556.8	1595.4	1599.0	1625.9	1632.2	1653.7	1667.1	1666.7
7.5°	1536.6	1600.3	1626.8	1655.5	1668.5	1665.3	1669.4	1666.2	1661.3	1659.1	1656.4
10°	1614.2	1662.7	1672.5	1672.5	1652.3	1625.0	1613.3	1593.1	1552.8	1553.7	1546.9
12.5°	1659.5	1676.6	1653.2	1633.5	1552.3	1520.9	1486.8	1470.7	1461.3	1446.9	1452.3
15°	1635.7	1611.5	1597.6	1533.9	1484.1	1427.6	1428.5	1418.7	1408.3	1409.2	1402.5
17.5°	1600.8	1581.5	1482.8	1438.8	1414.6	1392.6	1388.6	1375.6	1368.9	1366.6	1366.2
20°	1552.8	1483.2	1409.7	1398.9	1369.8	1344.7	1340.6	1344.7	1365.3	1328.5	1203.8
22.5°	1496.7	1396.7	1375.2	1344.7	1324.9	1315.1	1339.7	1227.6	1058.1	1078.7	1056.7
25°	1401.6	1358.1	1321.3	1298.0	1295.8	1235.2	1029.3	1007.8	898.8	840.5	775.0
27.5°	1332.1	1313.3	1274.7	1270.6	1241.5	1010.1	902.9	784.5	741.0	734.2	719.9
30°	1289.9	1263.0	1239.7	1137.9	990.8	813.2	724.4	707.8	700.1	692.1	679.5
32.5°	1239.3	1213.7	1224.9	956.7	789.8	700.1	682.2	670.1	656.2	650.8	605.5
35°	1187.7	1176.0	957.1	804.2	679.1	657.5	644.1	631.5	502.3	121.5	41.3
37.5°	1132.5	1129.8	860.3	667.4	636.0	615.8	577.7	119.3	28.3	19.3	14.4
40°	1089.4	860.7	680.0	625.7	600.1	568.3	79.8	19.7	12.6	7.6	4.9
42.5°	1060.7	774.1	608.6	587.1	531.5	58.8	20.2	8.5	4.9	4.0	3.1
45°	817.6	611.3	568.7	546.3	67.3	20.2	11.7	4.0	3.1	2.7	1.8
47.5°	754.4	555.3	530.1	119.3	22.4	10.8	8.1	2.7	1.8	1.8	1.8
50°	571.4	513.1	422.1	29.2	14.4	7.6	5.8	1.8	1.8	1.8	1.3
52.5°	501.0	473.6	45.3	19.3	11.2	5.8	3.6	1.3	1.3	1.3	1.3
55°	457.9	300.5	26.9	14.8	9.4	5.4	2.2	1.3	1.3	1.3	0.9
57.5°	418.9	40.4	19.7	12.6	8.5	4.9	1.3	1.3	1.3	1.3	0.9
60°	355.2	29.2	16.1	11.2	8.1	4.5	1.3	1.3	1.3	1.3	1.3
62.5°	46.2	22.9	13.9	9.9	5.8	3.6	0.9	1.3	1.3	1.3	1.3
65°	33.6	17.9	12.6	6.7	3.6	1.3	0.9	1.3	1.3	1.3	1.3
67.5°	26.0	14.8	9.4	5.8	3.1	0.9	0.9	1.3	1.3	1.3	1.3
70°	20.6	12.6	7.6	4.9	2.7	0.9	0.9	1.3	1.3	1.3	1.3
72.5°	16.1	9.0	5.4	2.7	1.8	0.9	0.9	1.3	1.3	1.3	1.3
75°	12.1	7.2	4.0	2.2	0.9	0.9	0.9	1.3	1.3	1.3	1.3
77.5°	8.1	4.5	3.1	1.8	1.8	1.8	2.2	2.2	1.3	1.3	1.3
80°	5.4	3.1	2.2	2.2	2.2	1.8	2.2	2.2	1.3	2.2	1.3
82.5°	2.7	2.2	2.2	1.8	1.8	1.3	1.8	1.8	1.8	1.8	1.3
85°	1.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.3
87.5°	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.8	1.8	1.3
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1505.2	1506.6	1503.0	1522.3	1512.4	1513.3	1517.3	1507.0	1509.3	1502.1	1497.2
5°	1668.5	1671.2	1673.9	1674.8	1676.6	1678.8	1676.1	1674.8	1672.1	1663.1	1653.7
7.5°	1642.9	1639.8	1638.4	1640.2	1643.4	1644.7	1642.5	1645.6	1657.3	1662.2	1665.3
10°	1508.4	1494.0	1503.9	1502.5	1491.3	1529.0	1518.7	1524.5	1528.5	1569.8	1594.9
12.5°	1444.2	1453.2	1436.2	1427.6	1438.8	1446.5	1454.1	1437.9	1460.4	1450.1	1483.2
15°	1390.4	1385.0	1383.2	1383.7	1381.4	1392.2	1394.9	1398.5	1401.6	1415.5	1420.9
17.5°	1366.2	1375.2	1378.7	1381.4	1376.9	1372.0	1367.1	1359.9	1362.1	1358.6	1368.9
20°	1119.9	1089.9	1088.1	1105.6	1086.3	1097.1	1123.1	1297.1	1291.3	1359.0	1336.1
22.5°	934.7	906.5	882.2	861.2	891.2	903.8	952.2	1006.9	1095.7	1081.8	1178.3
25°	763.4	753.1	746.8	743.6	745.9	745.0	755.8	781.3	821.7	916.8	1039.7
27.5°	714.0	709.1	706.9	699.7	705.1	703.3	711.8	717.2	729.3	738.7	778.6
30°	675.0	669.2	665.2	657.5	662.9	663.4	666.0	680.0	684.9	693.0	705.5
32.5°	246.7	145.3	136.3	129.6	141.7	184.8	324.3	566.9	646.8	653.0	667.4
35°	24.2	20.2	17.9	17.9	18.4	20.2	26.9	70.9	129.6	501.0	627.0
37.5°	9.4	8.1	6.7	6.3	6.7	7.6	10.3	13.5	18.4	38.1	170.0
40°	4.0	3.6	3.1	3.1	3.1	3.1	3.6	4.5	6.7	12.6	19.7
42.5°	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.1	4.0	8.1
45°	1.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.2	3.6
47.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8
50°	1.3	1.3	1.3	1.3	0.9	1.3	0.9	1.3	1.3	1.3	1.3
52.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3
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	1.3	1.3	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	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°	1.3	1.3	0.9	1.3	0.9	0.9	1.3	1.3	1.3	0.9	0.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	1.8
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.7	2.2
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.2	2.2
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1488.6	1488.2	1497.6	1504.8	1502.1	1504.8	1507.9	1508.4	1509.3	1505.7	1504.3
5°	1635.7	1621.8	1594.9	1575.6	1553.2	1512.4	1492.2	1494.5	1494.9	1493.6	1495.4
7.5°	1664.0	1662.7	1653.2	1649.2	1633.9	1604.8	1558.1	1550.1	1530.3	1517.8	1507.5
10°	1593.1	1625.4	1633.9	1648.3	1657.3	1651.9	1612.4	1606.6	1594.0	1579.7	1582.8
12.5°	1516.4	1542.9	1544.2	1622.3	1639.8	1641.6	1626.3	1634.4	1636.2	1603.9	1585.1
15°	1422.2	1434.8	1461.3	1533.9	1586.9	1620.0	1629.9	1634.4	1612.4	1611.1	1603.4
17.5°	1381.0	1389.1	1401.2	1442.0	1522.3	1571.2	1612.9	1609.7	1618.2	1612.0	1592.7
20°	1329.0	1335.7	1357.2	1377.8	1417.3	1482.3	1560.4	1566.2	1577.4	1576.1	1581.5
22.5°	1328.1	1304.3	1307.9	1324.0	1365.3	1423.6	1506.6	1525.9	1533.0	1538.0	1543.8
25°	1053.6	1242.4	1276.9	1287.2	1314.2	1348.2	1446.0	1453.2	1466.7	1488.6	1504.8
27.5°	912.7	1041.0	1179.2	1250.9	1268.0	1296.2	1354.5	1365.3	1411.0	1416.4	1441.5
30°	720.3	819.4	1025.8	1198.4	1226.7	1246.4	1287.7	1309.2	1329.0	1350.5	1376.9
32.5°	677.7	693.4	807.8	991.7	1211.4	1196.6	1227.1	1240.1	1261.7	1280.5	1299.8
35°	638.7	649.5	673.7	812.3	986.7	1155.8	1176.5	1185.0	1197.1	1211.4	1225.3
37.5°	597.9	614.0	630.6	667.8	912.7	1123.5	1123.1	1133.0	1140.1	1152.2	1163.9
40°	108.5	563.8	590.7	614.9	707.8	896.1	1072.9	1077.3	1082.3	1089.9	1102.0
42.5°	17.5	94.2	553.5	576.8	603.3	802.4	1050.0	1031.6	1028.4	1033.8	1044.6
45°	9.0	22.9	111.2	538.7	562.4	640.0	858.5	999.7	996.6	986.3	988.5
47.5°	6.7	14.4	27.4	186.1	526.6	549.4	792.1	783.6	843.2	957.6	940.1
50°	5.8	9.9	16.1	38.1	465.1	505.9	610.0	712.7	744.1	748.1	885.4
52.5°	5.4	6.7	11.7	24.7	97.8	467.8	496.1	531.9	584.9	698.3	695.7
55°	4.9	6.3	9.9	16.6	34.1	421.6	450.8	457.5	468.7	523.0	594.7
57.5°	2.7	5.8	9.4	14.4	25.6	77.1	409.0	414.4	423.4	425.6	451.2
60°	1.3	5.4	8.5	12.6	18.8	35.9	367.8	374.1	379.4	380.3	388.4
62.5°	0.9	4.9	7.2	11.7	15.7	25.6	87.0	177.6	337.7	337.7	347.2
65°	0.9	3.6	4.5	7.6	14.4	21.1	36.8	42.6	83.0	204.1	304.5
67.5°	0.9	1.3	4.0	6.3	10.8	16.1	26.9	31.4	37.7	43.1	79.8
70°	0.9	0.9	3.6	4.0	6.7	12.1	19.3	22.0	25.6	29.2	33.6
72.5°	0.9	0.9	3.1	3.1	4.5	8.1	14.8	16.1	18.4	20.6	23.8
75°	2.2	1.8	2.7	2.7	3.1	6.3	11.2	12.6	13.5	15.2	17.5
77.5°	2.2	2.2	2.2	2.2	2.2	4.0	7.2	8.1	9.4	10.3	12.1
80°	1.8	1.8	1.8	2.2	2.2	2.7	4.5	4.9	5.4	6.7	7.2
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.1	4.0
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8
87.5°	1.3	1.3	1.3	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1503.9	1501.2	1498.9	1500.3	1496.3	1494.5	1495.8	1496.3	1497.2	1499.4	1499.8
5°	1499.8	1498.9	1503.0	1505.2	1504.3	1505.2	1505.2	1503.4	1500.7	1502.5	1498.5
7.5°	1497.2	1491.3	1486.8	1487.7	1483.2	1488.6	1493.6	1500.7	1503.0	1503.0	1498.5
10°	1543.3	1537.1	1512.0	1494.9	1483.7	1473.8	1497.2	1473.4	1484.6	1442.0	1490.9
12.5°	1581.5	1590.0	1578.8	1532.1	1524.1	1494.5	1511.5	1482.3	1473.8	1424.9	1440.6
15°	1596.7	1580.6	1577.0	1564.0	1546.5	1538.0	1492.2	1487.3	1473.4	1478.8	1458.1
17.5°	1583.3	1591.3	1580.6	1572.1	1554.1	1533.9	1506.6	1482.3	1463.1	1420.0	1456.3
20°	1570.3	1581.0	1548.7	1554.1	1555.9	1532.6	1518.2	1498.0	1473.8	1433.5	1402.1
22.5°	1548.7	1541.1	1543.8	1535.7	1529.0	1532.1	1512.4	1498.5	1457.7	1439.3	1396.7
25°	1513.7	1511.1	1518.2	1517.3	1501.2	1495.8	1485.9	1471.1	1455.0	1425.4	1390.4
27.5°	1456.8	1470.7	1483.2	1489.1	1480.6	1466.2	1460.8	1452.3	1441.1	1411.0	1385.0
30°	1396.7	1412.4	1426.7	1439.3	1446.9	1440.6	1435.7	1430.8	1413.7	1394.0	1364.8
32.5°	1328.1	1348.7	1368.4	1383.7	1400.3	1405.2	1401.6	1397.6	1383.2	1365.3	1342.0
35°	1248.7	1276.9	1305.6	1333.0	1340.2	1351.8	1363.5	1356.8	1349.1	1331.2	1309.7
37.5°	1181.4	1201.6	1222.2	1256.7	1281.9	1296.7	1317.3	1320.0	1307.0	1298.5	1270.2
40°	1111.9	1130.3	1160.3	1180.5	1215.0	1232.1	1254.1	1263.9	1260.8	1255.8	1231.2
42.5°	1057.2	1066.1	1085.9	1103.8	1137.9	1172.9	1192.2	1202.9	1214.1	1210.1	1197.5
45°	998.8	1006.9	1013.6	1029.3	1062.5	1093.5	1117.3	1133.4	1153.6	1163.0	1147.8
47.5°	941.0	943.2	951.3	964.3	984.0	1007.8	1047.7	1072.0	1090.8	1109.2	1099.3
50°	896.6	888.5	889.9	897.9	914.1	937.4	966.1	1000.2	1021.7	1044.1	1046.4
52.5°	783.6	849.0	833.3	837.8	846.4	857.6	887.6	921.3	947.7	967.0	986.3
55°	657.5	670.5	796.6	778.6	784.0	793.9	807.8	841.4	867.0	893.9	920.8
57.5°	510.0	606.8	611.8	728.4	725.7	726.6	738.3	757.5	783.1	816.7	839.6
60°	396.5	437.3	516.7	557.1	659.3	662.9	669.6	680.8	702.8	734.7	771.0
62.5°	349.8	355.2	383.5	444.0	510.4	590.7	605.0	606.8	616.7	648.6	690.7
65°	307.2	310.8	319.3	325.6	381.2	458.8	527.9	539.1	545.4	564.2	600.1
67.5°	211.7	267.8	275.4	279.9	285.3	321.1	406.8	463.8	470.9	487.5	518.9
70°	40.8	84.8	231.9	236.8	239.5	247.6	261.5	352.1	399.6	415.3	429.7
72.5°	27.8	32.7	39.5	93.3	197.3	201.8	205.0	216.6	296.9	342.7	350.3
75°	20.2	22.4	26.5	32.7	40.4	131.4	162.8	168.6	174.5	240.9	279.4
77.5°	14.4	16.1	17.9	21.1	24.7	31.8	45.7	126.0	131.9	135.0	190.6
80°	8.1	9.9	12.1	13.9	15.7	17.9	23.3	29.2	65.0	95.1	100.0
82.5°	4.5	5.4	6.3	7.6	8.5	10.8	13.0	15.7	20.6	30.5	64.6
85°	2.2	2.2	2.2	3.1	3.6	4.9	5.8	6.7	9.4	13.0	17.9
87.5°	1.3	1.3	1.8	1.8	1.8	2.2	2.2	2.2	2.7	4.0	5.8
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-LD5-23SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1500.3	1498.9	1498.9	1504.3	1503.0
5°	1497.6	1496.3	1495.8	1501.6	1498.9
7.5°	1495.4	1490.4	1489.1	1494.5	1492.2
10°	1486.4	1482.8	1485.0	1483.2	1482.3
12.5°	1471.1	1468.9	1459.5	1460.4	1468.0
15°	1443.8	1452.7	1436.6	1451.0	1454.1
17.5°	1393.5	1413.7	1429.4	1437.9	1439.3
20°	1416.0	1422.7	1414.6	1415.1	1420.5
22.5°	1386.8	1390.0	1392.2	1389.5	1401.2
25°	1340.2	1328.1	1354.1	1359.5	1378.3
27.5°	1325.8	1315.9	1328.1	1327.2	1342.9
30°	1314.2	1282.3	1287.7	1296.2	1315.5
32.5°	1297.6	1247.3	1241.9	1260.8	1282.3
35°	1268.4	1220.9	1208.3	1220.4	1252.7
37.5°	1243.7	1184.1	1159.0	1175.1	1217.3
40°	1207.0	1155.4	1116.4	1130.7	1180.5
42.5°	1163.0	1130.7	1070.6	1080.5	1137.4
45°	1118.6	1089.9	1026.2	1031.1	1098.9
47.5°	1073.3	1046.8	980.0	980.9	1049.5
50°	1028.9	993.9	938.7	923.0	997.1
52.5°	971.0	938.7	897.0	871.5	947.3
55°	916.3	880.0	849.5	810.0	890.8
57.5°	862.9	822.6	801.9	751.3	826.6
60°	789.8	770.6	740.1	691.6	768.8
62.5°	714.9	708.7	677.7	627.5	697.4
65°	627.5	642.3	610.4	567.4	623.4
67.5°	544.9	571.4	536.4	510.0	552.1
70°	457.0	487.5	467.8	458.4	476.3
72.5°	370.5	400.1	401.9	395.1	401.0
75°	286.2	318.9	336.8	326.5	327.9
77.5°	217.1	232.8	252.5	260.6	258.8
80°	134.1	161.5	177.6	194.2	188.4
82.5°	67.7	90.6	110.3	128.3	119.8
85°	28.3	36.3	50.7	66.8	64.1
87.5°	8.5	14.4	15.2	21.5	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)