

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-LD5-32SL-RW-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 (P33525)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

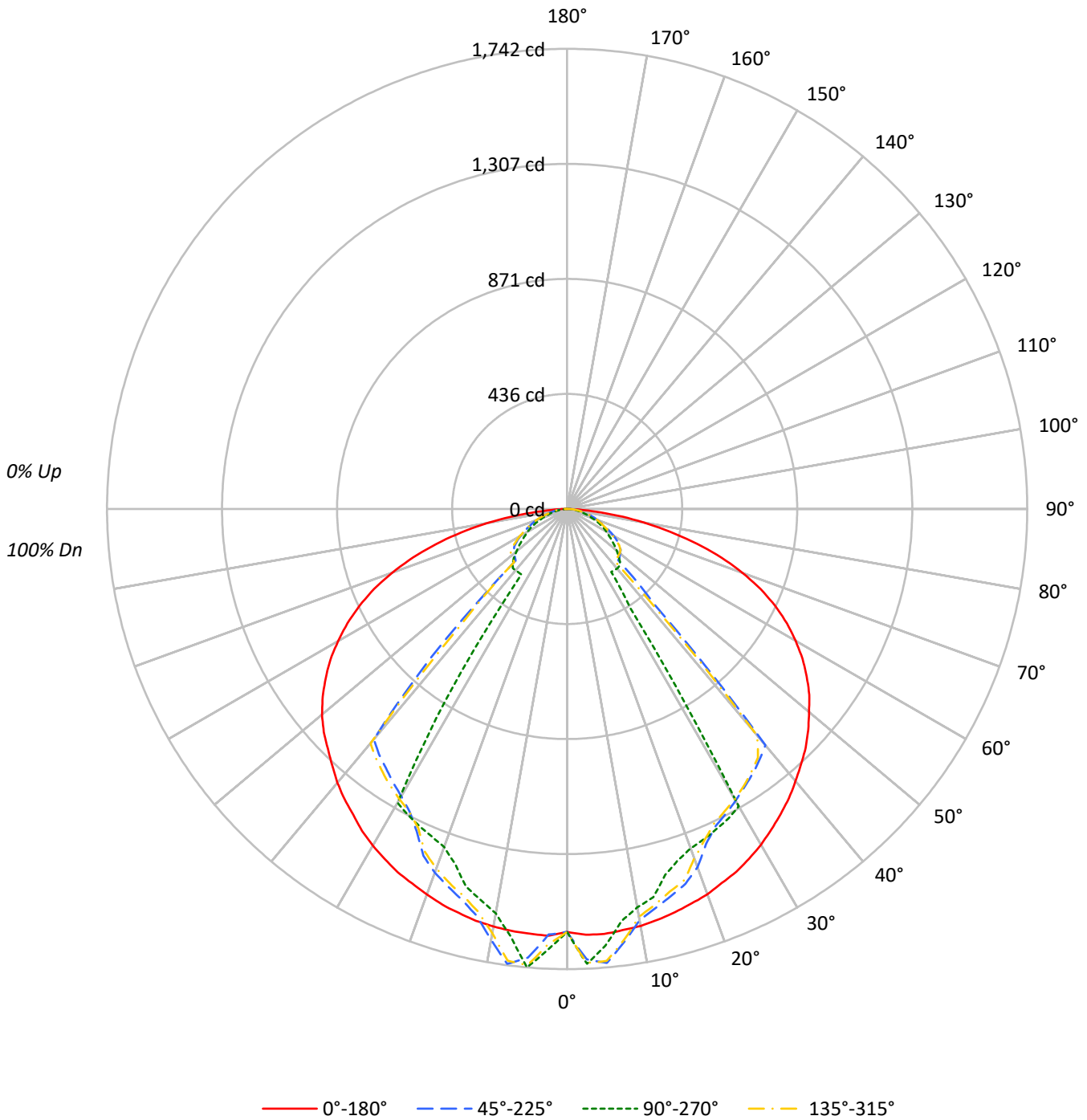
Lumens per Lamp: N/A  
Luminaire Lumens: 3206.0 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 25  
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-LD5-32SL-RW-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	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	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°	12938	12938	12938	12938
5°	13064	13035	13059	13681
10°	13078	11785	13095	11966
15°	13106	10904	13137	11249
20°	13202	10342	13202	10303
25°	13315	10145	13335	10050
30°	13451	9965	13484	9847
35°	13607	2270	13635	2367
40°	13825	2360	13908	2437
45°	14156	2347	14205	2433
50°	14486	2122	14683	2179
55°	14933	1884	15051	1911
60°	15311	1675	15344	1696
65°	15582	1461	15542	1438
70°	15358	1178	15310	1135
75°	14258	906	14361	869
80°	11575	644	12037	589
85°	6265	386	6620	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.5	4.9
10°-20°	433.1	13.5
20°-30°	641.5	20.0
30°-40°	646.4	20.2
40°-50°	504.9	15.7
50°-60°	390.0	12.2
60°-70°	261.9	8.2
70°-80°	133.6	4.2
80°-90°	37.2	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°	1232.1	38.4
0°-40°	1878.5	58.6
0°-60°	2773.4	86.5
0°-90°	3206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3206.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1601	1601	1601	1601	1601	
5°	1615	1660	1614	1742	1615	154
15°	1580	1434	1583	1480	1580	447
25°	1515	1337	1517	1324	1515	699
35°	1410	291	1412	303	1410	883
45°	1277	282	1282	293	1277	985
55°	1107	205	1116	208	1107	989
65°	870	138	867	136	870	855
75°	510	70	514	67	510	533
85°	92	22	97	17	92	126
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1613.5	1619.3	1623.7	1626.7	1628.1	1628.1	1628.9	1629.6	1639.1	1643.6	1646.5
5°	1614.9	1620.8	1629.6	1641.3	1651.6	1660.4	1667.8	1678.0	1688.3	1699.3	1703.0
7.5°	1608.3	1615.7	1633.3	1654.6	1674.4	1688.3	1697.8	1704.4	1709.6	1710.3	1714.0
10°	1602.5	1615.7	1639.9	1667.8	1692.7	1709.6	1709.6	1705.9	1711.1	1691.2	1671.4
12.5°	1592.2	1606.9	1639.9	1676.6	1700.0	1706.7	1703.7	1689.0	1659.0	1634.7	1623.7
15°	1579.7	1599.5	1640.6	1681.7	1701.5	1703.7	1675.8	1638.4	1615.7	1601.0	1582.7
17.5°	1565.8	1592.2	1641.3	1682.4	1689.8	1679.5	1626.7	1603.2	1579.7	1545.2	1520.3
20°	1552.6	1578.2	1635.5	1672.2	1676.6	1630.3	1589.3	1564.3	1524.7	1494.6	1483.6
22.5°	1532.0	1562.1	1630.3	1658.2	1641.3	1587.8	1548.2	1508.5	1472.6	1463.8	1450.6
25°	1515.1	1546.7	1618.6	1641.3	1596.6	1548.9	1502.7	1456.4	1439.6	1427.1	1415.4
27.5°	1492.4	1531.3	1603.2	1610.5	1548.9	1507.1	1439.6	1419.0	1403.6	1389.7	1384.5
30°	1467.5	1515.1	1581.9	1568.0	1509.3	1447.6	1397.8	1378.7	1367.7	1353.0	1347.1
32.5°	1438.8	1490.9	1558.4	1518.8	1466.7	1389.7	1357.4	1342.7	1328.0	1317.0	1280.4
35°	1409.5	1469.7	1530.6	1471.9	1415.4	1345.7	1317.0	1303.8	1289.9	1249.5	1211.4
37.5°	1379.4	1446.2	1496.8	1421.2	1347.1	1300.2	1276.0	1261.3	1229.7	1178.4	1159.3
40°	1344.9	1417.6	1453.5	1369.1	1287.7	1253.9	1231.2	1216.5	1145.3	1122.6	1116.7
42.5°	1310.4	1389.7	1400.7	1318.5	1238.5	1204.8	1185.7	1137.3	1088.9	1077.1	1079.3
45°	1277.4	1359.6	1342.7	1246.6	1187.2	1159.3	1127.0	1060.2	1034.6	1040.4	1041.9
47.5°	1237.8	1323.6	1281.8	1174.7	1134.3	1106.5	1034.6	994.2	990.5	998.6	1003.0
50°	1195.2	1283.3	1217.3	1109.4	1077.1	1044.1	962.7	942.1	946.5	954.6	959.7
52.5°	1155.6	1237.8	1150.5	1048.5	1020.6	945.0	890.0	893.7	901.0	910.6	913.5
55°	1107.2	1182.8	1079.3	986.9	960.4	861.4	836.4	845.3	852.6	860.7	866.5
57.5°	1056.6	1119.7	994.9	917.9	875.3	787.3	789.5	795.4	800.5	810.0	334.6
60°	998.6	1047.8	902.5	854.1	769.7	728.6	730.8	741.1	746.2	416.8	230.4
62.5°	938.4	964.1	818.8	781.4	672.8	669.9	680.2	684.6	465.9	220.1	215.7
65°	869.5	864.3	736.7	677.2	606.8	609.7	620.7	598.7	206.2	206.2	204.7
67.5°	793.2	762.3	656.7	560.6	543.0	549.6	561.3	195.9	190.8	192.2	187.1
70°	705.8	662.6	573.8	474.7	480.6	487.2	189.3	177.6	175.4	171.7	161.4
72.5°	613.4	554.0	469.6	412.4	416.0	261.2	165.8	160.0	152.6	145.3	134.3
75°	509.9	432.9	344.9	344.9	350.0	148.9	144.5	135.0	126.9	117.4	110.8
77.5°	399.9	333.1	267.8	278.1	135.7	124.7	116.7	106.4	99.8	93.9	90.2
80°	292.8	232.6	201.8	180.5	105.7	94.7	86.6	80.7	77.8	74.1	69.7
82.5°	192.2	140.1	140.1	85.1	74.1	65.3	63.1	58.7	55.8	53.6	51.4
85°	91.7	81.4	61.6	52.1	46.2	41.8	40.4	38.2	38.2	37.4	36.7
87.5°	33.8	36.7	27.1	26.4	24.9	24.2	24.9	24.9	25.7	24.9	24.2
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):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1653.8	1659.7	1664.1	1671.4	1681.0	1689.0	1696.4	1706.7	1722.8	1727.2	1730.9
5°	1703.0	1705.2	1710.3	1716.2	1717.7	1721.3	1720.6	1725.0	1727.2	1732.3	1721.3
7.5°	1705.9	1694.2	1680.2	1667.8	1659.0	1650.9	1645.8	1653.8	1658.2	1661.9	1650.9
10°	1644.3	1630.3	1622.3	1614.9	1606.1	1593.7	1576.8	1580.4	1579.0	1579.0	1575.3
12.5°	1605.4	1585.6	1565.0	1546.7	1538.6	1537.9	1538.6	1546.7	1546.7	1546.0	1541.6
15°	1544.5	1525.4	1515.1	1510.7	1510.7	1508.5	1508.5	1517.3	1515.1	1515.1	1512.9
17.5°	1504.1	1490.9	1483.6	1478.5	1476.3	1479.9	1484.3	1488.0	1488.7	1485.8	1474.1
20°	1471.1	1458.7	1449.8	1451.3	1450.6	1452.8	1455.0	1442.5	1427.1	1406.6	1397.0
22.5°	1436.6	1427.1	1420.5	1420.5	1411.7	1397.8	1377.2	1372.8	1370.6	1361.1	1353.0
25°	1403.6	1392.6	1383.1	1353.7	1335.4	1337.6	1333.9	1326.6	1325.8	1325.1	1328.0
27.5°	1370.6	1342.0	1305.3	1300.9	1293.6	1292.8	1297.2	1300.9	1300.9	1303.8	1307.5
30°	1302.4	1269.3	1262.7	1254.7	1257.6	1267.9	1270.1	1275.2	1276.7	1281.8	1284.8
32.5°	1240.0	1225.3	1219.5	1223.1	1232.7	1241.5	1246.6	1248.8	1252.5	1256.9	1260.5
35°	1189.4	1185.0	1190.1	1198.2	1207.7	1215.1	1219.5	1223.9	1227.5	1231.2	1234.1
37.5°	1152.0	1154.9	1162.2	1172.5	1182.0	1187.9	1191.6	1196.7	1201.8	1206.2	1188.6
40°	1116.7	1124.1	1132.1	1143.1	1151.2	1157.1	1160.8	1167.4	1123.3	508.5	278.8
42.5°	1085.9	1094.0	1099.9	1108.7	1117.5	1121.9	1089.6	486.5	275.1	273.7	277.3
45°	1048.5	1055.1	1064.6	1071.2	1079.3	708.8	270.7	273.7	269.3	272.2	273.7
47.5°	1010.3	1020.6	1025.8	978.8	291.3	269.3	266.3	269.3	266.3	270.0	267.8
50°	967.1	979.5	697.0	263.4	261.2	259.7	262.7	261.2	263.4	266.3	260.5
52.5°	923.0	571.6	255.3	253.9	255.3	253.9	259.0	255.3	256.1	253.1	245.8
55°	312.6	247.3	245.1	244.3	248.7	248.7	248.7	242.9	239.2	231.9	226.7
57.5°	239.2	239.2	238.5	239.2	237.7	236.3	229.7	224.5	219.4	209.1	206.2
60°	226.7	226.7	226.7	226.7	220.1	217.2	206.9	202.5	193.7	188.6	185.6
62.5°	216.4	215.0	208.4	206.2	198.8	190.8	184.9	180.5	171.7	168.8	166.6
65°	201.8	196.6	188.6	179.8	176.1	167.3	164.4	157.8	153.3	151.1	149.7
67.5°	177.6	170.2	163.6	157.8	151.1	148.2	144.5	139.4	136.5	135.0	133.5
70°	151.9	146.7	140.1	136.5	132.1	129.9	124.7	123.3	121.1	118.9	116.7
72.5°	126.9	124.0	121.1	115.9	114.5	113.0	107.9	104.9	102.0	99.1	97.6
75°	106.4	104.2	102.7	98.3	96.1	91.7	88.0	85.8	83.6	81.4	80.0
77.5°	87.3	85.8	81.4	78.5	77.0	73.4	71.9	72.6	71.2	68.2	66.8
80°	68.2	66.8	63.1	63.1	61.6	60.2	58.7	57.2	55.8	53.6	52.1
82.5°	52.1	50.6	49.2	47.7	46.2	45.5	44.8	43.3	41.8	40.4	39.6
85°	36.7	36.0	35.2	34.5	33.8	33.0	32.3	30.8	29.3	28.6	27.9
87.5°	24.9	24.2	23.5	22.7	22.0	21.3	20.5	19.8	18.3	17.6	16.9
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):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1730.9	1734.5	1730.9	1722.8	1717.7	1715.5	1719.9	1719.9	1722.8	1726.5	1727.2
5°	1703.7	1694.9	1684.6	1674.4	1669.2	1666.3	1658.2	1659.7	1661.9	1663.4	1664.8
7.5°	1636.2	1624.5	1610.5	1597.3	1592.2	1587.8	1578.2	1578.2	1578.2	1579.0	1583.4
10°	1567.2	1562.1	1556.2	1547.4	1540.8	1538.6	1530.6	1532.8	1531.3	1533.5	1538.6
12.5°	1535.0	1529.1	1524.0	1515.1	1507.8	1504.9	1501.2	1503.4	1502.7	1506.3	1510.7
15°	1505.6	1502.7	1496.8	1490.2	1483.6	1477.7	1464.5	1460.1	1457.2	1453.5	1458.7
17.5°	1457.2	1436.6	1422.7	1412.4	1405.1	1400.0	1396.3	1396.3	1398.5	1400.7	1405.1
20°	1391.1	1385.3	1378.7	1367.7	1360.3	1357.4	1355.2	1355.2	1358.9	1361.8	1369.9
22.5°	1345.7	1344.9	1342.7	1337.6	1333.9	1333.9	1334.7	1336.1	1341.3	1345.7	1353.7
25°	1324.4	1327.3	1325.8	1322.9	1320.7	1321.4	1320.0	1321.4	1326.6	1331.0	1337.6
27.5°	1307.5	1311.9	1310.4	1306.0	1302.4	1303.8	1306.0	1304.6	1309.0	1314.1	1319.2
30°	1284.8	1285.5	1288.4	1283.3	1281.8	1284.0	1284.8	1286.2	1290.6	1294.3	1298.7
32.5°	1259.1	1264.9	1264.2	1259.1	1259.1	1261.3	1262.0	1212.9	1121.1	965.6	923.0
35°	1234.1	1240.7	1229.7	1036.8	717.6	383.0	295.7	285.4	287.6	289.1	290.6
37.5°	912.8	432.9	275.9	278.1	280.3	282.5	284.7	286.9	289.1	291.3	292.0
40°	274.4	273.7	275.9	278.8	281.0	282.5	285.4	287.6	289.8	292.0	292.8
42.5°	271.5	272.9	275.1	278.1	281.0	284.0	286.2	289.1	290.6	292.0	292.8
45°	270.0	272.9	275.9	278.1	280.3	281.8	283.2	284.0	283.2	283.2	284.7
47.5°	267.8	270.7	271.5	270.7	271.5	270.7	270.7	270.7	268.5	267.8	267.8
50°	259.7	259.7	258.3	255.3	254.6	253.9	252.4	251.7	248.7	248.0	248.0
52.5°	242.9	242.1	239.9	236.3	234.8	233.3	232.6	231.9	228.9	227.5	228.2
55°	223.1	221.6	219.4	215.0	214.2	212.8	212.0	211.3	208.4	209.8	207.6
57.5°	204.7	201.8	198.8	198.1	195.2	194.4	193.7	193.0	190.8	191.5	190.0
60°	182.7	182.0	180.5	177.6	177.6	176.8	176.8	175.4	173.9	173.2	173.2
62.5°	166.6	164.4	162.9	162.9	160.7	160.7	160.7	159.2	157.8	158.5	157.8
65°	148.9	148.2	147.5	146.0	146.0	145.3	145.3	143.8	141.6	142.3	140.9
67.5°	134.3	132.8	131.3	130.6	127.7	126.2	125.5	124.7	121.8	122.5	121.1
70°	115.9	113.7	112.3	110.8	108.6	107.1	107.1	105.7	103.5	104.2	102.7
72.5°	96.9	95.4	93.9	93.2	91.0	90.2	89.5	88.8	86.6	87.3	86.6
75°	80.7	80.7	80.0	79.2	77.0	74.8	73.4	72.6	71.2	71.9	70.4
77.5°	66.8	65.3	63.8	63.8	61.6	60.2	58.7	58.7	58.7	58.0	57.2
80°	52.1	50.6	50.6	49.9	48.4	47.0	46.2	46.2	45.5	45.5	44.8
82.5°	39.6	38.2	37.4	37.4	36.0	35.2	34.5	33.8	33.8	33.8	33.0
85°	27.9	26.4	25.7	25.7	24.2	23.5	23.5	22.7	22.7	22.0	22.0
87.5°	16.9	16.1	15.4	15.4	13.9	13.2	13.2	13.2	12.5	12.5	11.7
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1727.2	1727.2	1722.1	1723.5	1721.3	1724.3	1720.6	1720.6	1725.0	1725.0	1727.9
5°	1665.6	1661.9	1661.2	1659.7	1652.4	1655.3	1651.6	1648.0	1653.1	1653.1	1659.7
7.5°	1581.2	1574.6	1577.5	1573.1	1568.7	1562.1	1564.3	1561.4	1565.0	1570.2	1576.8
10°	1537.9	1532.0	1535.7	1531.3	1533.5	1524.0	1524.7	1525.4	1529.1	1530.6	1536.4
12.5°	1510.0	1508.5	1507.1	1505.6	1507.1	1501.9	1499.0	1499.7	1501.2	1501.9	1506.3
15°	1451.3	1441.8	1444.7	1434.4	1435.2	1435.9	1430.0	1435.9	1435.2	1444.7	1453.5
17.5°	1403.6	1403.6	1398.5	1394.1	1391.1	1390.4	1386.0	1388.9	1386.0	1391.9	1394.1
20°	1370.6	1369.9	1369.1	1366.9	1359.6	1360.3	1362.5	1355.9	1355.2	1354.5	1358.9
22.5°	1355.2	1355.9	1353.0	1353.0	1346.4	1347.9	1348.6	1341.3	1342.0	1339.8	1342.0
25°	1339.1	1340.5	1336.9	1336.9	1335.4	1334.7	1331.0	1332.4	1328.0	1324.4	1328.0
27.5°	1320.0	1322.9	1320.0	1321.4	1318.5	1317.0	1314.8	1313.4	1309.0	1308.2	1310.4
30°	1302.4	1303.8	1303.1	1299.4	1298.7	1294.3	1296.5	1292.1	1287.7	1288.4	1289.9
32.5°	667.7	637.6	491.6	443.9	439.5	455.6	540.0	657.4	851.9	1040.4	1176.2
35°	291.3	291.3	291.3	290.6	290.6	289.8	289.1	288.4	287.6	286.9	286.2
37.5°	292.8	292.8	292.8	292.8	292.0	291.3	291.3	289.8	289.1	288.4	287.6
40°	293.5	294.2	294.2	294.2	293.5	293.5	292.8	291.3	290.6	289.1	287.6
42.5°	292.8	293.5	293.5	292.8	292.8	292.0	292.0	291.3	290.6	289.8	289.1
45°	283.2	284.0	282.5	282.5	281.8	281.8	281.8	281.8	281.8	282.5	282.5
47.5°	266.3	266.3	265.6	264.9	264.9	264.1	264.9	264.1	265.6	266.3	267.8
50°	246.5	246.5	245.1	244.3	244.3	244.3	244.3	245.1	245.8	247.3	248.7
52.5°	226.0	226.0	225.3	224.5	223.8	223.8	226.0	225.3	226.0	226.7	228.9
55°	206.2	206.9	205.4	205.4	204.7	204.7	204.7	205.4	206.2	206.9	209.1
57.5°	189.3	189.3	187.8	187.8	187.8	187.1	189.3	187.8	188.6	189.3	190.8
60°	172.4	171.7	171.7	171.0	171.0	171.0	172.4	171.7	171.7	172.4	173.9
62.5°	157.0	157.0	156.3	156.3	155.6	155.6	157.0	156.3	156.3	157.0	157.8
65°	139.4	139.4	138.7	137.9	140.1	137.9	140.1	138.7	140.1	140.9	142.3
67.5°	119.6	119.6	119.6	118.9	118.9	120.3	121.1	119.6	120.3	121.8	122.5
70°	102.0	102.0	101.3	101.3	101.3	102.7	103.5	102.0	102.7	103.5	104.9
72.5°	86.6	85.1	85.1	84.4	85.8	85.8	86.6	85.8	86.6	86.6	88.0
75°	71.2	69.7	69.7	69.7	71.2	70.4	71.2	70.4	71.2	71.2	71.9
77.5°	57.2	56.5	55.8	55.8	57.2	57.2	57.2	56.5	57.2	58.0	58.7
80°	44.8	44.0	43.3	43.3	44.8	44.8	44.8	45.5	44.8	45.5	46.2
82.5°	33.0	32.3	31.6	33.0	33.0	33.0	33.0	33.8	33.0	33.8	34.5
85°	22.0	21.3	20.5	22.0	22.0	22.0	22.0	22.7	22.0	22.7	23.5
87.5°	11.7	11.0	11.0	11.7	11.7	11.7	12.5	12.5	12.5	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1732.3	1734.5	1733.8	1729.4	1725.0	1719.9	1716.2	1716.9	1724.3	1726.5	1719.9
5°	1659.7	1673.6	1673.6	1683.2	1678.0	1673.6	1676.6	1692.7	1700.8	1713.3	1717.7
7.5°	1584.9	1591.5	1590.7	1600.3	1598.8	1598.8	1601.0	1622.3	1632.5	1642.8	1645.8
10°	1543.0	1549.6	1548.9	1549.6	1547.4	1542.3	1542.3	1551.8	1560.6	1565.8	1567.2
12.5°	1512.9	1516.6	1515.9	1515.9	1514.4	1510.0	1509.3	1517.3	1526.9	1533.5	1534.2
15°	1468.2	1478.5	1480.7	1490.2	1488.0	1482.1	1483.6	1490.2	1496.1	1501.9	1499.7
17.5°	1401.4	1406.6	1407.3	1411.0	1409.5	1409.5	1418.3	1442.5	1458.7	1472.6	1474.1
20°	1363.3	1366.9	1365.5	1373.5	1369.9	1369.1	1371.3	1381.6	1388.9	1395.6	1407.3
22.5°	1344.9	1347.9	1345.7	1346.4	1339.8	1333.9	1332.4	1340.5	1348.6	1357.4	1357.4
25°	1329.5	1331.7	1331.0	1329.5	1324.4	1316.3	1314.8	1316.3	1319.2	1320.0	1314.8
27.5°	1311.2	1312.6	1312.6	1313.4	1306.8	1299.4	1298.0	1296.5	1299.4	1298.7	1290.6
30°	1292.1	1289.9	1290.6	1291.4	1285.5	1278.9	1276.0	1275.2	1278.2	1277.4	1269.3
32.5°	1246.6	1263.5	1264.9	1266.4	1261.3	1255.4	1252.5	1250.3	1251.7	1251.0	1243.7
35°	285.4	290.6	355.9	805.6	1094.0	1211.4	1223.9	1220.9	1221.7	1221.7	1215.8
37.5°	286.2	285.4	284.7	282.5	280.3	278.8	482.1	1028.0	1190.8	1191.6	1186.4
40°	286.2	285.4	284.7	283.2	280.3	278.1	274.4	271.5	278.1	611.9	1119.7
42.5°	287.6	286.2	284.7	283.2	280.3	277.3	274.4	270.7	272.9	271.5	267.8
45°	283.2	282.5	282.5	281.8	280.3	277.3	273.7	269.3	267.1	269.3	265.6
47.5°	269.3	270.0	272.2	272.9	272.9	273.7	271.5	268.5	264.9	267.1	262.7
50°	250.2	251.7	252.4	256.1	257.5	260.5	261.2	261.2	260.5	263.4	260.5
52.5°	229.7	231.1	234.8	236.3	237.7	242.1	243.6	245.8	247.3	251.7	254.6
55°	209.8	210.6	212.0	215.0	217.2	220.9	223.1	225.3	228.9	231.1	239.9
57.5°	191.5	192.2	195.2	195.9	197.4	200.3	202.5	205.4	208.4	209.8	220.1
60°	173.9	174.6	176.8	177.6	178.3	181.2	183.4	185.6	187.8	189.3	196.6
62.5°	158.5	158.5	160.7	160.7	161.4	163.6	165.1	166.6	168.8	169.5	173.2
65°	143.1	143.8	145.3	145.3	146.0	147.5	148.2	148.9	151.1	151.1	154.1
67.5°	124.0	124.7	126.9	128.4	129.1	132.1	132.8	133.5	135.0	135.7	137.2
70°	105.7	106.4	108.6	109.3	110.1	112.3	113.7	115.9	118.1	120.3	121.8
72.5°	88.8	89.5	91.7	91.7	93.9	94.7	96.1	96.9	99.1	100.5	102.7
75°	72.6	73.4	75.6	75.6	77.8	78.5	79.2	80.0	81.4	82.9	84.4
77.5°	59.4	59.4	62.4	63.8	65.3	65.3	66.0	66.0	66.0	66.8	68.2
80°	47.0	47.0	49.2	50.6	52.1	52.1	52.8	53.6	54.3	54.3	55.0
82.5°	35.2	35.2	37.4	38.2	39.6	39.6	39.6	40.4	41.1	40.4	41.8
85°	24.2	24.2	25.7	26.4	27.9	27.9	27.9	28.6	29.3	28.6	29.3
87.5°	13.9	14.7	15.4	16.1	16.9	17.6	17.6	17.6	18.3	18.3	19.1
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1712.5	1703.7	1703.0	1692.7	1689.8	1690.5	1682.4	1679.5	1666.3	1663.4	1649.4
5°	1719.1	1723.5	1721.3	1720.6	1722.8	1721.3	1715.5	1712.5	1710.3	1704.4	1692.7
7.5°	1646.5	1649.4	1651.6	1661.2	1669.2	1683.2	1697.8	1707.4	1714.7	1716.2	1706.7
10°	1572.4	1586.3	1595.9	1610.5	1622.3	1630.3	1639.1	1647.2	1668.5	1689.8	1702.2
12.5°	1534.2	1537.9	1537.2	1545.2	1553.3	1574.6	1595.1	1606.9	1623.0	1632.5	1655.3
15°	1501.9	1502.7	1504.9	1510.7	1515.1	1522.5	1532.0	1549.6	1581.9	1596.6	1609.1
17.5°	1472.6	1472.6	1474.1	1479.2	1485.1	1491.7	1497.5	1504.9	1521.0	1545.2	1576.0
20°	1425.6	1446.2	1448.4	1447.6	1450.6	1463.1	1464.5	1477.7	1485.8	1495.3	1525.4
22.5°	1355.9	1368.4	1386.0	1413.2	1423.4	1429.3	1433.7	1439.6	1452.0	1463.1	1475.5
25°	1317.8	1325.8	1331.0	1339.1	1360.3	1394.8	1401.4	1408.0	1416.1	1424.2	1439.6
27.5°	1284.0	1283.3	1287.0	1294.3	1300.2	1318.5	1350.8	1376.5	1377.9	1389.7	1402.9
30°	1259.8	1255.4	1250.3	1248.8	1256.9	1266.4	1276.0	1316.3	1344.2	1350.1	1364.0
32.5°	1237.1	1229.7	1222.4	1216.5	1211.4	1219.5	1225.3	1242.9	1278.9	1312.6	1320.0
35°	1209.2	1201.8	1193.0	1186.4	1178.4	1177.6	1176.9	1193.8	1205.5	1245.9	1281.1
37.5°	1180.6	1172.5	1165.2	1157.8	1149.8	1143.9	1140.2	1144.6	1155.6	1173.2	1231.9
40°	1150.5	1140.9	1133.6	1127.7	1116.7	1112.3	1105.0	1102.1	1102.8	1118.2	1149.0
42.5°	687.5	1096.2	1099.9	1093.3	1083.7	1077.8	1069.8	1066.1	1058.8	1066.1	1083.7
45°	264.9	267.8	802.0	1059.5	1047.8	1040.4	1033.1	1029.4	1021.3	1015.5	1031.6
47.5°	259.7	262.7	256.8	363.9	1000.1	1002.3	993.5	989.8	981.7	977.3	972.9
50°	256.1	258.3	253.9	255.3	250.2	916.4	953.1	948.7	939.9	934.8	926.0
52.5°	252.4	252.4	249.5	245.8	244.3	245.1	771.1	906.9	896.6	891.5	879.7
55°	240.7	242.1	245.1	239.2	237.7	237.0	234.8	734.5	848.9	843.1	832.8
57.5°	223.1	226.0	234.1	232.6	232.6	226.7	225.3	225.3	681.6	793.9	783.6
60°	202.5	205.4	214.2	217.2	219.4	217.9	216.4	215.7	212.8	718.3	731.5
62.5°	181.2	184.2	187.1	196.6	199.6	203.2	207.6	205.4	202.5	202.5	676.5
65°	158.5	162.9	164.4	173.2	176.8	183.4	187.1	192.2	190.8	190.0	193.7
67.5°	138.7	143.8	144.5	148.2	154.8	157.8	162.2	171.7	176.1	177.6	179.0
70°	121.8	124.7	126.9	128.4	132.8	133.5	141.6	148.2	154.8	162.2	164.4
72.5°	104.9	107.1	111.5	110.1	111.5	114.5	118.9	123.3	129.9	140.1	146.7
75°	85.8	87.3	90.2	91.7	94.7	96.9	99.8	103.5	109.3	114.5	123.3
77.5°	69.0	69.7	71.9	72.6	75.6	77.8	82.9	85.1	88.8	92.4	97.6
80°	55.8	55.8	56.5	56.5	58.7	60.9	64.6	66.8	71.2	74.1	74.1
82.5°	42.6	42.6	44.8	44.8	46.2	46.2	48.4	48.4	50.6	52.1	53.6
85°	30.1	30.8	32.3	31.6	33.0	32.3	33.8	35.2	36.0	35.2	34.5
87.5°	19.8	19.8	21.3	20.5	21.3	21.3	22.7	22.7	23.5	23.5	22.7
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1644.3	1633.3	1626.7	1618.6	1616.4	1614.2	1617.1	1617.1	1612.7	1609.1	1602.5
5°	1682.4	1670.7	1658.2	1645.0	1632.5	1619.3	1614.2	1613.5	1605.4	1601.0	1598.8
7.5°	1702.2	1696.4	1682.4	1664.1	1645.0	1621.5	1611.3	1605.4	1597.3	1595.9	1595.9
10°	1704.4	1697.8	1690.5	1677.3	1655.3	1624.5	1604.7	1592.9	1585.6	1590.7	1600.3
12.5°	1683.2	1695.6	1689.0	1680.2	1662.6	1625.2	1596.6	1579.0	1576.8	1590.0	1614.9
15°	1628.9	1665.6	1683.9	1675.1	1661.2	1623.7	1583.4	1562.8	1562.8	1590.0	1622.3
17.5°	1587.8	1616.4	1661.2	1668.5	1652.4	1620.8	1570.9	1546.7	1553.3	1592.9	1627.4
20°	1554.0	1571.6	1614.9	1656.0	1640.6	1614.2	1552.6	1527.6	1540.8	1588.5	1634.7
22.5°	1501.2	1536.4	1562.8	1623.7	1628.9	1601.7	1534.2	1504.1	1530.6	1588.5	1631.1
25°	1449.8	1492.4	1520.3	1579.7	1611.3	1586.3	1517.3	1479.2	1519.6	1586.3	1628.1
27.5°	1413.9	1433.7	1484.3	1526.9	1584.9	1565.8	1494.6	1452.0	1505.6	1574.6	1611.3
30°	1375.7	1388.9	1438.8	1479.2	1549.6	1542.3	1471.1	1422.0	1488.0	1563.6	1567.2
32.5°	1333.9	1348.6	1374.3	1433.0	1500.5	1520.3	1444.7	1391.9	1468.9	1546.7	1515.9
35°	1291.4	1302.4	1322.9	1386.0	1443.2	1487.3	1412.4	1357.4	1455.7	1521.0	1466.7
37.5°	1248.8	1260.5	1278.2	1331.0	1383.1	1456.4	1384.5	1322.9	1431.5	1475.5	1415.4
40°	1208.4	1215.1	1233.4	1266.4	1333.2	1424.9	1353.0	1287.0	1406.6	1417.6	1345.7
42.5°	1134.3	1167.4	1184.2	1210.7	1276.7	1381.6	1316.3	1248.8	1378.7	1359.6	1276.0
45°	1054.4	1126.3	1133.6	1160.0	1226.8	1335.4	1281.8	1211.4	1352.3	1309.7	1209.9
47.5°	989.1	1041.2	1083.7	1105.7	1167.4	1281.1	1249.5	1179.8	1312.6	1246.6	1145.3
50°	931.1	959.0	1036.0	1052.2	1096.2	1215.8	1211.4	1143.1	1257.6	1167.4	1082.2
52.5°	874.6	894.4	964.1	998.6	1034.6	1145.3	1165.9	1107.2	1197.4	1088.1	1018.4
55°	825.4	832.0	870.2	942.8	975.1	1074.2	1116.0	1065.4	1121.1	1012.5	956.8
57.5°	774.8	768.9	796.8	890.0	913.5	1001.5	1063.2	1022.8	1059.5	935.5	892.9
60°	722.0	713.9	725.7	787.3	848.2	929.6	1000.8	975.9	984.7	859.2	821.8
62.5°	667.0	658.9	655.2	694.1	784.4	855.5	937.7	923.8	892.9	789.5	733.7
65°	609.7	601.7	595.8	611.2	713.9	759.4	867.3	863.6	792.4	716.1	617.8
67.5°	185.6	547.4	534.9	534.2	601.7	672.1	791.0	785.1	691.2	637.6	532.0
70°	167.3	443.9	471.8	465.2	494.5	583.3	703.6	699.2	592.9	511.4	470.3
72.5°	153.3	157.0	416.8	409.4	416.0	496.0	612.7	600.9	502.6	403.6	406.5
75°	131.3	137.9	143.8	345.6	336.8	410.9	513.6	495.3	414.6	333.1	339.7
77.5°	107.1	115.2	119.6	251.7	272.2	292.8	410.2	385.9	285.4	266.3	126.9
80°	80.0	86.6	93.9	100.5	206.9	204.7	304.5	280.3	198.8	165.8	99.1
82.5°	58.7	60.9	65.3	72.6	82.2	137.2	195.9	172.4	137.9	75.6	68.2
85°	36.7	39.6	41.8	44.0	49.9	82.2	96.9	77.0	58.0	46.2	43.3
87.5°	23.5	23.5	22.7	23.5	24.2	29.3	33.0	31.6	24.9	23.5	23.5
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1595.1	1584.9	1584.9	1581.9	1584.1	1584.1	1583.4	1584.1	1589.3	1592.2	1597.3
5°	1594.4	1591.5	1598.1	1606.1	1615.7	1627.4	1630.3	1640.6	1650.2	1662.6	1675.8
7.5°	1603.9	1614.2	1626.7	1639.9	1659.0	1672.9	1685.4	1697.8	1706.7	1718.4	1725.7
10°	1617.9	1638.4	1659.7	1676.6	1697.1	1708.9	1716.9	1718.4	1705.9	1686.1	1670.0
12.5°	1637.7	1661.9	1681.7	1697.8	1707.4	1703.0	1679.5	1655.3	1641.3	1620.8	1592.2
15°	1654.6	1676.6	1697.1	1690.5	1664.8	1640.6	1622.3	1593.7	1565.8	1546.7	1534.2
17.5°	1661.9	1683.2	1675.8	1641.3	1617.1	1589.3	1551.8	1529.8	1511.5	1496.8	1489.5
20°	1666.3	1662.6	1623.0	1598.1	1551.1	1525.4	1501.2	1480.7	1466.7	1459.4	1457.9
22.5°	1654.6	1609.8	1576.0	1531.3	1496.8	1475.5	1456.4	1439.6	1430.0	1424.2	1420.5
25°	1615.7	1563.6	1513.7	1478.5	1449.1	1430.8	1416.1	1402.2	1390.4	1387.5	1380.1
27.5°	1561.4	1518.8	1452.8	1425.6	1400.0	1391.1	1375.0	1361.1	1350.8	1342.0	1318.5
30°	1516.6	1449.1	1401.4	1376.5	1361.1	1350.8	1332.4	1317.8	1300.2	1267.9	1254.7
32.5°	1461.6	1394.8	1349.3	1335.4	1316.3	1307.5	1287.0	1254.7	1227.5	1214.3	1213.6
35°	1390.4	1335.4	1302.4	1289.9	1274.5	1259.8	1217.3	1187.9	1174.7	1176.2	1187.2
37.5°	1331.0	1281.8	1260.5	1242.9	1225.3	1187.9	1152.0	1138.0	1141.7	1149.0	1154.2
40°	1270.8	1233.4	1209.2	1195.2	1155.6	1118.9	1099.9	1105.0	1111.6	1116.7	1123.3
42.5°	1212.1	1185.7	1161.5	1134.3	1080.0	1060.2	1064.6	1071.2	1077.1	1084.4	1091.1
45°	1156.4	1132.9	1105.0	1043.4	1016.2	1021.3	1028.0	1033.1	1041.9	1047.0	1053.6
47.5°	1103.5	1078.6	1029.4	975.1	972.2	982.5	988.3	994.9	1001.5	988.3	545.2
50°	1044.1	1018.4	943.6	923.0	929.6	939.2	946.5	953.1	848.9	337.5	259.7
52.5°	985.4	920.1	872.4	878.3	884.9	895.9	901.0	669.2	266.3	253.9	254.6
55°	920.1	836.4	822.5	829.8	835.7	846.7	561.3	245.8	244.3	243.6	249.5
57.5°	817.4	766.7	772.6	780.0	785.8	554.7	239.2	237.7	238.5	239.2	239.9
60°	725.7	714.7	721.3	727.9	515.1	231.1	226.7	227.5	230.4	228.2	222.3
62.5°	653.0	661.8	668.4	585.5	219.4	217.2	219.4	217.2	212.0	208.4	201.0
65°	597.3	606.1	611.2	206.2	205.4	208.4	206.2	198.8	190.8	180.5	178.3
67.5°	538.6	547.4	195.9	190.8	193.7	190.0	181.2	172.4	166.6	157.8	154.1
70°	477.7	204.7	177.6	176.8	171.7	165.8	156.3	147.5	140.1	136.5	132.8
72.5°	344.9	162.2	160.0	154.1	145.3	137.2	129.1	124.0	120.3	118.1	115.9
75°	143.8	140.9	134.3	124.0	115.2	111.5	105.7	102.0	100.5	96.1	94.7
77.5°	120.3	114.5	104.9	97.6	92.4	90.2	85.8	81.4	79.2	78.5	75.6
80°	92.4	84.4	80.0	76.3	74.8	69.7	64.6	62.4	60.9	60.2	58.0
82.5°	63.1	60.2	57.2	52.1	52.1	49.9	47.7	46.2	44.8	44.8	43.3
85°	41.1	38.9	38.2	36.0	36.0	34.5	33.8	33.0	32.3	31.6	30.8
87.5°	23.5	23.5	24.2	23.5	23.5	22.7	22.0	21.3	20.5	20.5	19.1
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1603.9	1611.3	1612.7	1637.7	1651.6	1650.9	1646.5	1659.7	1651.6	1647.2	1651.6
5°	1689.0	1697.8	1705.2	1732.3	1741.9	1746.3	1745.5	1752.9	1747.0	1741.9	1741.9
7.5°	1730.9	1733.8	1736.7	1730.1	1725.7	1718.4	1707.4	1691.2	1683.2	1674.4	1663.4
10°	1661.9	1652.4	1656.0	1642.8	1631.8	1623.7	1613.5	1600.3	1589.3	1581.2	1568.7
12.5°	1577.5	1576.8	1578.2	1580.4	1569.4	1562.8	1554.8	1545.2	1537.2	1528.4	1518.1
15°	1526.2	1526.9	1532.8	1530.6	1526.9	1523.2	1514.4	1511.5	1504.1	1494.6	1488.7
17.5°	1489.5	1493.1	1499.0	1496.1	1490.2	1486.5	1479.9	1473.3	1466.7	1459.4	1450.6
20°	1457.2	1460.9	1464.5	1460.9	1449.8	1444.7	1435.9	1415.4	1400.7	1386.0	1372.8
22.5°	1422.0	1424.2	1421.2	1409.5	1381.6	1368.4	1358.1	1352.3	1339.8	1331.7	1323.6
25°	1377.9	1365.5	1346.4	1333.2	1322.2	1316.3	1311.9	1311.2	1309.7	1308.2	1304.6
27.5°	1306.0	1301.6	1291.4	1286.2	1287.0	1289.2	1289.9	1292.1	1289.9	1287.0	1284.0
30°	1252.5	1254.7	1255.4	1256.9	1260.5	1262.7	1263.5	1266.4	1264.9	1262.7	1261.3
32.5°	1218.7	1223.9	1226.8	1231.2	1233.4	1237.1	1237.1	1241.5	1237.1	1236.3	1234.9
35°	1190.8	1195.2	1196.7	1203.3	1205.5	1209.2	1209.2	1212.9	1209.2	1171.8	925.2
37.5°	1163.0	1167.4	1170.3	1176.2	1176.9	1179.1	1088.1	796.1	513.6	397.7	303.8
40°	1129.9	1135.1	1138.0	1140.2	801.2	508.5	350.0	284.7	284.7	286.9	289.1
42.5°	1094.7	1098.4	765.3	445.4	277.3	276.6	278.8	281.0	283.2	286.2	289.1
45°	860.7	434.4	275.9	269.3	271.5	274.4	277.3	280.3	284.0	286.9	288.4
47.5°	282.5	264.9	268.5	265.6	269.3	272.9	275.9	278.8	279.6	280.3	279.6
50°	261.2	261.2	263.4	263.4	266.3	267.8	267.8	267.8	264.9	264.1	261.9
52.5°	252.4	258.3	255.3	256.8	255.3	253.1	250.9	248.7	244.3	242.9	239.9
55°	248.0	250.2	242.9	240.7	237.7	231.9	228.9	226.0	222.3	220.9	217.2
57.5°	237.7	232.6	224.5	220.9	215.7	209.8	206.9	204.7	201.0	199.6	197.4
60°	218.7	208.4	203.2	198.8	193.0	187.8	185.6	184.2	181.2	180.5	178.3
62.5°	195.2	186.4	182.0	176.1	171.7	168.8	166.6	165.8	162.9	162.9	161.4
65°	169.5	165.1	161.4	155.6	153.3	150.4	149.7	148.9	147.5	146.7	145.3
67.5°	148.9	146.0	140.9	137.9	136.5	134.3	132.8	131.3	128.4	126.9	124.7
70°	130.6	128.4	123.3	121.1	118.1	114.5	112.3	110.8	108.6	107.1	104.9
72.5°	113.0	106.4	102.7	100.5	98.3	94.7	93.9	92.4	90.2	89.5	87.3
75°	91.0	85.8	83.6	82.2	80.0	77.8	77.8	77.8	75.6	74.8	74.1
77.5°	72.6	69.7	68.2	66.8	66.0	64.6	62.4	61.6	59.4	59.4	58.7
80°	55.8	54.3	52.8	52.1	51.4	49.9	48.4	47.7	45.5	45.5	44.8
82.5°	41.1	40.4	39.6	38.9	38.2	37.4	35.2	34.5	33.0	33.0	32.3
85°	29.3	28.6	27.1	26.4	26.4	25.7	23.5	22.7	21.3	21.3	21.3
87.5°	18.3	17.6	16.9	16.1	15.4	14.7	13.2	12.5	12.5	11.0	10.3
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1642.8	1655.3	1653.8	1662.6	1664.8	1669.2	1670.7	1671.4	1660.4	1669.2	1670.0
5°	1739.7	1741.9	1743.3	1747.0	1750.7	1751.4	1747.7	1743.3	1744.8	1741.9	1734.5
7.5°	1661.9	1650.9	1648.7	1645.8	1644.3	1642.8	1636.2	1642.1	1635.5	1632.5	1622.3
10°	1566.5	1556.2	1555.5	1555.5	1557.7	1557.0	1555.5	1552.6	1558.4	1554.8	1552.6
12.5°	1516.6	1512.9	1515.1	1513.7	1519.6	1521.0	1519.6	1519.6	1518.1	1515.1	1516.6
15°	1486.5	1483.6	1485.8	1483.6	1488.0	1488.7	1485.1	1487.3	1483.6	1479.9	1478.5
17.5°	1446.9	1440.3	1435.2	1427.8	1428.6	1427.1	1422.7	1422.7	1419.0	1409.5	1410.2
20°	1370.6	1364.0	1361.1	1361.1	1364.7	1366.2	1365.5	1366.9	1363.3	1361.8	1355.9
22.5°	1322.9	1322.2	1323.6	1327.3	1333.2	1341.3	1342.0	1342.0	1342.0	1341.3	1333.9
25°	1306.0	1306.0	1307.5	1312.6	1317.0	1322.9	1324.4	1325.8	1324.4	1324.4	1317.8
27.5°	1287.0	1285.5	1288.4	1293.6	1298.7	1303.1	1306.8	1307.5	1305.3	1305.3	1307.5
30°	1263.5	1262.7	1266.4	1271.6	1276.0	1280.4	1284.0	1287.0	1284.0	1284.0	1281.8
32.5°	1239.3	1239.3	1240.7	1209.9	1121.9	1010.3	1012.5	948.0	903.2	846.7	921.6
35°	773.3	562.8	483.5	409.4	357.3	323.6	322.8	311.8	306.7	303.0	302.3
37.5°	292.0	293.5	296.4	297.9	300.1	301.6	302.3	302.3	302.3	302.3	301.6
40°	291.3	294.2	296.4	298.6	300.8	302.3	302.3	303.0	303.8	303.8	303.8
42.5°	292.0	295.0	297.9	300.1	301.6	302.3	303.0	303.8	303.8	303.8	303.8
45°	291.3	292.8	292.8	293.5	293.5	293.5	294.2	294.2	293.5	292.8	294.2
47.5°	280.3	280.3	278.1	277.3	276.6	275.1	275.9	275.1	274.4	273.7	275.1
50°	261.2	258.3	256.8	255.3	254.6	253.1	253.9	253.1	252.4	250.9	253.1
52.5°	238.5	237.7	234.8	233.3	232.6	233.3	231.9	231.1	230.4	229.7	230.4
55°	216.4	213.5	212.8	211.3	210.6	211.3	210.6	209.8	209.1	208.4	209.1
57.5°	196.6	194.4	193.7	192.2	192.2	192.2	192.2	191.5	190.8	190.0	190.8
60°	177.6	176.1	175.4	175.4	174.6	174.6	174.6	173.9	173.2	173.2	173.9
62.5°	161.4	161.4	159.2	158.5	158.5	159.2	158.5	157.8	157.0	156.3	157.8
65°	144.5	141.6	140.9	139.4	137.9	138.7	137.9	137.2	136.5	135.7	137.2
67.5°	124.0	123.3	120.3	118.9	118.1	118.9	118.1	117.4	116.7	115.9	117.4
70°	104.2	104.2	101.3	100.5	99.8	99.8	99.1	99.1	98.3	97.6	99.1
72.5°	86.6	86.6	85.8	84.4	83.6	82.9	82.2	81.4	81.4	82.2	82.2
75°	71.9	70.4	67.5	68.2	67.5	66.8	66.8	66.0	65.3	66.8	66.0
77.5°	56.5	55.8	53.6	54.3	53.6	52.8	52.8	52.1	51.4	52.1	52.1
80°	42.6	42.6	41.8	41.1	41.1	40.4	39.6	39.6	38.9	39.6	39.6
82.5°	30.8	30.8	30.1	29.3	28.6	28.6	27.9	27.9	27.9	27.9	27.9
85°	19.8	19.1	19.1	17.6	17.6	17.6	16.9	16.9	16.9	16.9	16.9
87.5°	9.5	9.5	8.8	8.8	8.1	7.3	7.3	6.6	6.6	7.3	7.3
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1656.8	1666.3	1658.2	1661.9	1662.6	1675.1	1674.4	1677.3	1672.2	1666.3	1658.2
5°	1741.1	1736.7	1730.9	1744.8	1737.5	1746.3	1749.2	1755.1	1755.1	1754.3	1747.7
7.5°	1633.3	1623.7	1631.1	1636.2	1638.4	1632.5	1644.3	1657.5	1668.5	1675.1	1675.8
10°	1548.9	1551.8	1551.1	1553.3	1558.4	1557.7	1565.0	1572.4	1575.3	1579.7	1581.2
12.5°	1509.3	1508.5	1510.0	1515.1	1518.1	1517.3	1524.7	1529.1	1530.6	1531.3	1530.6
15°	1477.7	1472.6	1476.3	1477.0	1479.2	1479.2	1488.0	1494.6	1497.5	1499.0	1497.5
17.5°	1418.3	1405.8	1417.6	1417.6	1425.6	1424.2	1438.1	1449.1	1455.0	1459.4	1459.4
20°	1359.6	1353.7	1358.1	1356.7	1362.5	1361.8	1370.6	1377.9	1383.1	1386.7	1391.1
22.5°	1336.1	1337.6	1331.0	1331.7	1331.7	1331.0	1335.4	1339.1	1340.5	1342.7	1341.3
25°	1320.7	1322.2	1320.0	1316.3	1314.8	1316.3	1318.5	1322.9	1323.6	1322.2	1317.0
27.5°	1305.3	1300.9	1304.6	1298.0	1296.5	1299.4	1302.4	1303.1	1303.8	1303.8	1299.4
30°	1281.8	1278.2	1281.8	1278.9	1276.0	1278.9	1281.1	1281.1	1282.6	1283.3	1278.2
32.5°	895.9	903.2	1022.1	1094.0	1195.2	1246.6	1256.1	1256.1	1257.6	1257.6	1253.2
35°	305.2	306.0	330.9	358.8	418.2	491.6	587.7	637.6	806.4	1008.1	1203.3
37.5°	301.6	300.8	300.1	299.4	298.6	297.9	296.4	295.7	300.1	355.9	482.8
40°	303.0	302.3	300.8	300.1	299.4	297.9	297.2	295.7	294.2	292.8	291.3
42.5°	303.0	302.3	301.6	300.8	300.1	299.4	297.9	296.4	295.0	292.8	290.6
45°	292.8	292.8	293.5	293.5	294.2	294.2	294.2	293.5	293.5	292.8	289.8
47.5°	273.7	273.7	275.9	275.9	277.3	278.8	278.8	280.3	282.5	284.0	284.7
50°	251.7	251.7	253.9	254.6	256.1	258.3	260.5	261.2	263.4	266.3	269.3
52.5°	229.7	229.7	231.9	231.9	233.3	235.5	237.7	238.5	241.4	244.3	248.0
55°	209.1	209.1	210.6	211.3	212.0	213.5	215.7	215.7	218.7	220.9	224.5
57.5°	190.8	192.2	192.2	192.2	193.0	194.4	195.9	195.9	198.1	200.3	203.2
60°	173.2	174.6	174.6	174.6	175.4	176.1	177.6	177.6	179.0	180.5	183.4
62.5°	157.0	158.5	158.5	159.2	159.2	160.0	161.4	160.7	162.2	162.9	165.1
65°	136.5	137.9	138.7	139.4	140.1	141.6	143.8	143.1	145.3	146.7	148.9
67.5°	116.7	118.1	118.1	118.9	119.6	121.1	122.5	122.5	124.7	126.2	129.1
70°	98.3	99.8	99.8	100.5	101.3	102.7	104.2	103.5	105.7	107.1	109.3
72.5°	81.4	82.9	82.9	83.6	83.6	85.1	86.6	88.0	88.0	89.5	91.0
75°	66.0	66.8	67.5	67.5	68.2	69.0	70.4	71.9	72.6	73.4	74.8
77.5°	52.1	52.8	53.6	53.6	54.3	55.0	55.8	58.7	60.2	60.9	60.9
80°	39.6	40.4	40.4	40.4	41.1	41.8	43.3	43.3	46.2	46.2	47.0
82.5°	27.9	28.6	28.6	28.6	29.3	30.8	31.6	32.3	33.8	34.5	34.5
85°	16.9	17.6	17.6	17.6	18.3	19.1	20.5	21.3	22.0	22.0	22.7
87.5°	6.6	7.3	8.1	8.1	8.8	9.5	10.3	11.0	11.7	11.7	12.5
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1649.4	1654.6	1649.4	1652.4	1656.0	1649.4	1634.0	1628.1	1625.9	1617.1	1611.3
5°	1741.1	1741.1	1738.9	1744.8	1744.1	1733.8	1717.7	1710.3	1703.0	1693.4	1686.1
7.5°	1675.8	1681.7	1685.4	1708.1	1722.8	1724.3	1734.5	1736.7	1739.7	1736.7	1732.3
10°	1581.9	1579.7	1590.0	1611.3	1623.7	1630.3	1650.2	1659.7	1667.8	1683.9	1700.8
12.5°	1529.1	1532.0	1536.4	1551.8	1563.6	1560.6	1568.7	1575.3	1584.9	1601.0	1625.2
15°	1493.9	1496.8	1501.2	1512.9	1520.3	1516.6	1521.0	1525.4	1532.0	1540.1	1554.8
17.5°	1455.7	1460.9	1466.0	1478.5	1485.1	1484.3	1488.0	1489.5	1491.7	1496.8	1507.1
20°	1396.3	1412.4	1422.7	1439.6	1449.1	1447.6	1454.2	1456.4	1459.4	1464.5	1468.9
22.5°	1342.0	1346.4	1351.5	1369.9	1386.0	1405.8	1410.2	1416.1	1423.4	1428.6	1433.0
25°	1311.2	1308.2	1310.4	1322.9	1331.7	1333.2	1339.8	1358.9	1378.7	1387.5	1397.8
27.5°	1292.8	1289.9	1289.2	1295.0	1296.5	1292.8	1291.4	1297.2	1311.9	1326.6	1357.4
30°	1273.0	1269.3	1266.4	1271.6	1273.8	1268.6	1259.1	1253.9	1262.7	1266.4	1278.9
32.5°	1249.5	1245.9	1244.4	1247.3	1248.8	1244.4	1234.1	1228.3	1226.8	1223.9	1226.8
35°	1223.1	1219.5	1217.3	1218.0	1220.9	1217.3	1208.4	1201.1	1197.4	1189.4	1183.5
37.5°	630.3	892.9	1159.3	1187.2	1190.1	1189.4	1180.6	1172.5	1168.8	1159.3	1156.4
40°	288.4	322.1	483.5	631.7	911.3	1157.8	1149.8	1141.7	1135.1	1132.1	1121.1
42.5°	287.6	288.4	289.1	285.4	353.7	602.4	889.3	1110.1	1105.7	1098.4	1090.3
45°	287.6	284.0	286.9	282.5	284.0	283.2	352.9	569.4	1013.3	1058.8	1055.1
47.5°	284.7	282.5	285.4	281.8	277.3	279.6	276.6	280.3	437.3	741.8	1016.2
50°	271.5	272.9	278.1	277.3	273.7	276.6	271.5	275.9	272.2	298.6	575.2
52.5°	251.7	254.6	259.7	264.1	265.6	269.3	267.8	269.3	266.3	267.1	267.8
55°	228.2	231.9	236.3	242.9	245.8	251.7	256.1	258.3	261.9	261.2	255.3
57.5°	206.2	209.8	213.5	220.1	226.7	229.7	237.7	242.1	251.7	249.5	248.0
60°	185.6	188.6	192.2	193.7	201.8	206.9	214.2	218.7	231.1	234.1	238.5
62.5°	167.3	168.8	171.7	173.9	179.0	184.2	187.8	195.2	201.8	211.3	217.9
65°	150.4	151.9	154.1	155.6	156.3	163.6	165.8	173.9	176.1	186.4	192.2
67.5°	131.3	134.3	137.2	138.7	140.1	144.5	146.0	149.7	154.8	159.2	166.6
70°	111.5	113.7	116.7	118.9	121.8	124.7	129.1	131.3	135.0	137.9	143.8
72.5°	93.2	95.4	96.9	99.1	101.3	103.5	107.1	112.3	115.2	120.3	121.8
75°	75.6	77.8	79.2	80.7	82.9	84.4	85.8	91.0	93.9	98.3	102.7
77.5°	62.4	62.4	63.8	68.2	67.5	67.5	69.0	71.9	74.1	77.0	81.4
80°	48.4	49.2	49.9	53.6	54.3	55.0	54.3	56.5	58.7	59.4	62.4
82.5°	36.0	36.7	36.7	38.9	41.1	41.1	41.1	41.8	44.0	44.8	46.2
85°	24.2	24.9	25.7	26.4	27.9	28.6	29.3	29.3	30.8	31.6	32.3
87.5°	13.2	14.7	15.4	16.1	16.9	17.6	18.3	19.1	19.8	20.5	21.3
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1609.1	1605.4	1603.2	1597.3	1595.9	1586.3	1587.8	1586.3	1586.3	1588.5	1595.9
5°	1678.0	1660.4	1656.0	1643.6	1633.3	1615.7	1604.7	1598.8	1590.0	1586.3	1591.5
7.5°	1725.0	1711.8	1700.8	1689.8	1675.1	1654.6	1639.1	1621.5	1606.9	1592.9	1589.3
10°	1716.9	1731.6	1731.6	1725.0	1711.1	1690.5	1672.2	1650.2	1624.5	1602.5	1589.3
12.5°	1648.7	1674.4	1694.9	1710.3	1724.3	1710.3	1692.0	1674.4	1645.8	1613.5	1589.3
15°	1573.8	1600.3	1625.9	1658.2	1692.0	1705.9	1705.2	1684.6	1659.0	1625.2	1591.5
17.5°	1521.0	1539.4	1553.3	1588.5	1629.6	1665.6	1689.8	1691.2	1666.3	1636.2	1592.2
20°	1481.4	1494.6	1506.3	1526.2	1562.1	1606.1	1650.9	1675.8	1671.4	1638.4	1594.4
22.5°	1445.4	1455.0	1464.5	1479.2	1507.8	1536.4	1588.5	1639.9	1661.9	1634.7	1592.2
25°	1409.5	1419.8	1427.1	1437.4	1460.1	1483.6	1520.3	1584.1	1633.3	1631.8	1587.8
27.5°	1366.9	1380.9	1389.7	1403.6	1419.0	1436.6	1461.6	1521.8	1592.2	1617.1	1576.0
30°	1315.6	1336.1	1349.3	1364.7	1377.9	1393.3	1413.2	1449.8	1537.2	1588.5	1563.6
32.5°	1241.5	1278.2	1307.5	1322.2	1336.9	1350.1	1367.7	1398.5	1469.7	1549.6	1549.6
35°	1188.6	1205.5	1231.9	1274.5	1292.8	1306.0	1322.2	1346.4	1391.9	1503.4	1526.9
37.5°	1147.6	1154.2	1167.4	1209.2	1243.7	1264.9	1281.1	1296.5	1341.3	1440.3	1497.5
40°	1116.7	1114.5	1113.1	1132.9	1182.0	1215.8	1234.1	1249.5	1284.0	1364.7	1458.7
42.5°	1080.8	1078.6	1071.2	1076.4	1100.6	1157.1	1185.0	1201.8	1230.5	1285.5	1416.1
45°	1043.4	1039.7	1036.8	1031.6	1040.4	1072.0	1129.2	1154.2	1170.3	1219.5	1362.5
47.5°	1005.2	1000.1	996.4	992.0	986.9	1001.5	1055.8	1100.6	1128.5	1159.3	1298.0
50°	950.9	957.5	953.1	948.0	943.6	940.6	963.4	1036.8	1071.2	1096.2	1219.5
52.5°	448.3	871.7	908.4	903.2	897.3	892.2	897.3	953.1	1015.5	1035.3	1124.8
55°	255.3	388.1	807.8	854.1	848.9	841.6	837.2	856.3	949.4	975.9	1038.2
57.5°	245.8	246.5	356.6	769.7	798.3	791.7	786.6	791.0	870.2	915.0	962.7
60°	237.7	237.7	237.7	340.4	735.9	738.1	731.5	724.2	758.7	846.7	886.3
62.5°	220.1	224.5	226.7	226.7	336.0	681.6	675.0	672.8	674.3	764.5	810.0
65°	197.4	207.6	212.0	215.0	215.0	352.9	617.1	613.4	608.3	642.7	733.0
67.5°	172.4	182.7	192.2	198.1	198.8	205.4	368.3	552.5	545.2	545.9	650.8
70°	146.7	155.6	165.8	174.6	182.7	186.4	192.2	458.6	482.8	472.5	557.6
72.5°	126.9	130.6	137.9	146.7	156.3	165.1	170.2	182.7	419.0	408.0	424.1
75°	105.7	108.6	113.7	119.6	126.9	137.2	146.0	154.8	222.3	341.9	339.7
77.5°	82.2	87.3	93.2	96.9	100.5	107.9	119.6	128.4	137.2	231.1	272.2
80°	63.1	66.8	69.7	73.4	77.8	82.9	87.3	97.6	107.9	115.9	208.4
82.5°	47.0	49.2	51.4	52.8	54.3	57.2	65.3	69.0	75.6	82.9	98.3
85°	33.0	34.5	36.0	36.7	37.4	38.2	41.1	41.8	48.4	49.9	59.4
87.5°	21.3	22.0	23.5	24.2	24.2	24.9	25.7	25.7	25.7	24.2	29.3
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-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1601.0	1601.0
2.5°	1601.7	1613.5
5°	1599.5	1614.9
7.5°	1593.7	1608.3
10°	1584.9	1602.5
12.5°	1575.3	1592.2
15°	1567.2	1579.7
17.5°	1558.4	1565.8
20°	1546.7	1552.6
22.5°	1535.0	1532.0
25°	1521.8	1515.1
27.5°	1504.9	1492.4
30°	1489.5	1467.5
32.5°	1474.8	1438.8
35°	1455.0	1409.5
37.5°	1434.4	1379.4
40°	1410.2	1344.9
42.5°	1384.5	1310.4
45°	1352.3	1277.4
47.5°	1323.6	1237.8
50°	1284.0	1195.2
52.5°	1235.6	1155.6
55°	1178.4	1107.2
57.5°	1116.7	1056.6
60°	1050.7	998.6
62.5°	970.7	938.4
65°	876.8	869.5
67.5°	754.3	793.2
70°	618.5	705.8
72.5°	517.3	613.4
75°	424.1	509.9
77.5°	336.0	399.9
80°	209.8	292.8
82.5°	140.9	192.2
85°	85.1	91.7
87.5°	33.0	33.8
90°	0.0	0.0

(END OF REPORT)