

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-LD5-36SL-RW-UNV-L930-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-LD5-36SL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

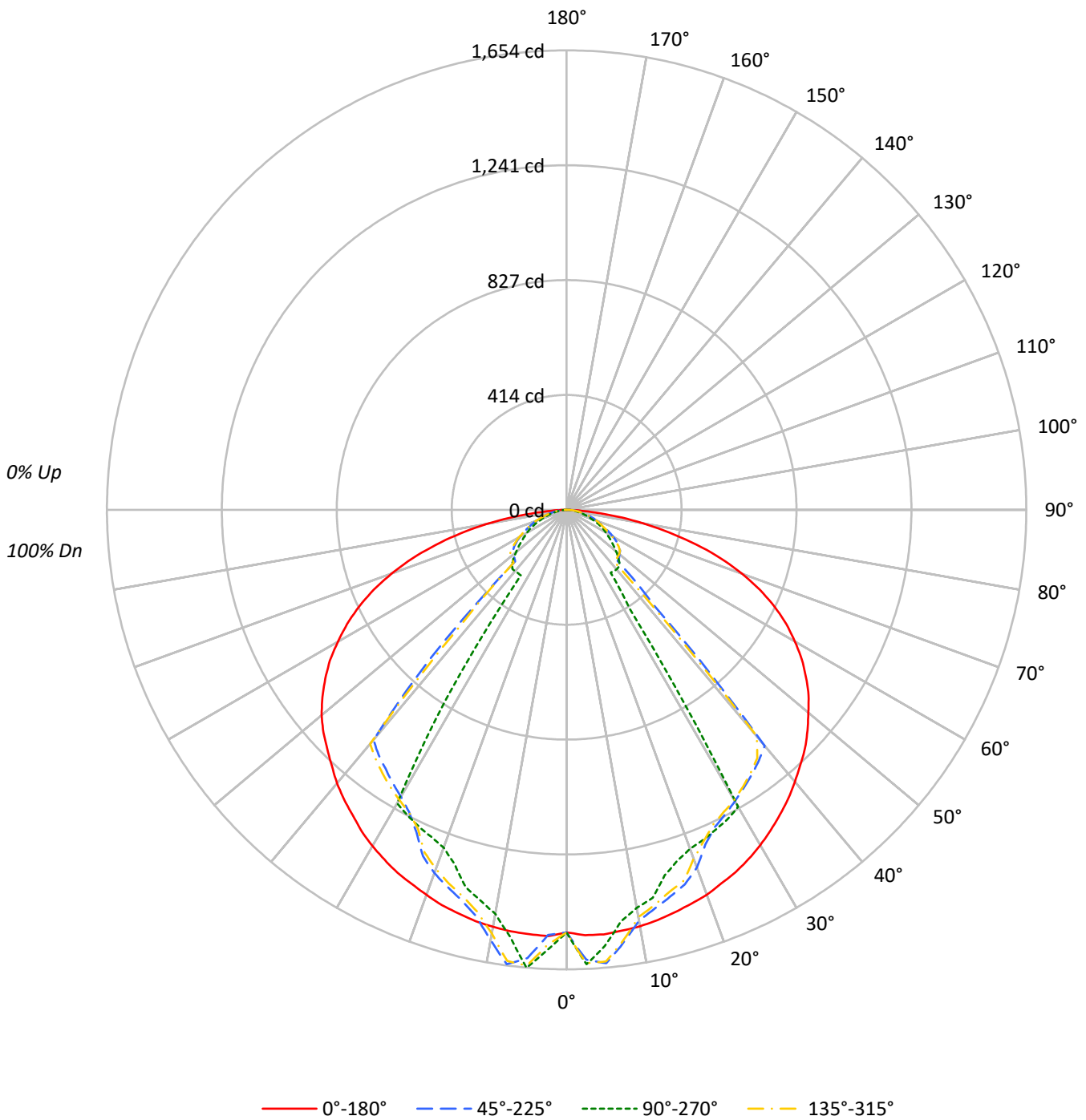
Lumens per Lamp: N/A
Luminaire Lumens: 3045.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	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°	12288	12288	12288	12288
5°	12408	12380	12402	12994
10°	12421	11193	12438	11365
15°	12448	10356	12477	10685
20°	12538	9823	12538	9786
25°	12647	9635	12666	9545
30°	12775	9465	12806	9352
35°	12924	2156	12951	2248
40°	13131	2241	13209	2314
45°	13446	2229	13492	2311
50°	13759	2016	13946	2070
55°	14183	1789	14296	1815
60°	14543	1591	14573	1611
65°	14799	1388	14761	1366
70°	14587	1119	14542	1078
75°	13542	861	13640	824
80°	10994	611	11432	559
85°	5950	366	6285	280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	4.9
10°-20°	411.3	13.5
20°-30°	609.3	20.0
30°-40°	613.9	20.2
40°-50°	479.6	15.7
50°-60°	370.4	12.2
60°-70°	248.7	8.2
70°-80°	126.9	4.2
80°-90°	35.3	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°	1170.2	38.4
0°-40°	1784.2	58.6
0°-60°	2634.1	86.5
0°-90°	3045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3045.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1521	1521	1521	1521	1521	
5°	1534	1576	1533	1654	1534	146
15°	1500	1362	1504	1406	1500	424
25°	1439	1270	1441	1258	1439	664
35°	1339	276	1342	288	1339	839
45°	1213	268	1218	278	1213	936
55°	1052	195	1060	198	1052	939
65°	826	131	824	129	826	812
75°	484	66	488	63	484	507
85°	87	21	92	16	87	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1532.4	1538.0	1542.2	1545.0	1546.4	1546.4	1547.1	1547.8	1556.8	1561.0	1563.8
5°	1533.8	1539.4	1547.8	1558.9	1568.7	1577.0	1584.0	1593.8	1603.5	1614.0	1617.5
7.5°	1527.6	1534.5	1551.3	1571.5	1590.3	1603.5	1612.6	1618.9	1623.7	1624.4	1627.9
10°	1522.0	1534.5	1557.5	1584.0	1607.7	1623.7	1623.7	1620.2	1625.1	1606.3	1587.5
12.5°	1512.2	1526.2	1557.5	1592.4	1614.7	1620.9	1618.2	1604.2	1575.6	1552.7	1542.2
15°	1500.4	1519.2	1558.2	1597.3	1616.1	1618.2	1591.7	1556.1	1534.5	1520.6	1503.2
17.5°	1487.1	1512.2	1558.9	1597.9	1604.9	1595.2	1545.0	1522.7	1500.4	1467.6	1443.9
20°	1474.6	1499.0	1553.3	1588.2	1592.4	1548.5	1509.4	1485.8	1448.1	1419.5	1409.1
22.5°	1455.1	1483.7	1548.5	1575.0	1558.9	1508.1	1470.4	1432.8	1398.6	1390.3	1377.7
25°	1439.1	1469.0	1537.3	1558.9	1516.4	1471.1	1427.2	1383.3	1367.3	1355.4	1344.3
27.5°	1417.5	1454.4	1522.7	1529.7	1471.1	1431.4	1367.3	1347.8	1333.1	1319.9	1315.0
30°	1393.8	1439.1	1502.5	1489.2	1433.5	1374.9	1327.6	1309.4	1299.0	1285.0	1279.5
32.5°	1366.6	1416.1	1480.2	1442.5	1393.1	1319.9	1289.2	1275.3	1261.4	1250.9	1216.1
35°	1338.7	1395.9	1453.7	1397.9	1344.3	1278.1	1250.9	1238.4	1225.1	1186.8	1150.6
37.5°	1310.1	1373.6	1421.6	1349.9	1279.5	1234.9	1211.9	1197.9	1168.0	1119.2	1101.1
40°	1277.4	1346.4	1380.5	1300.4	1223.0	1191.0	1169.4	1155.4	1087.8	1066.2	1060.7
42.5°	1244.6	1319.9	1330.3	1252.3	1176.3	1144.3	1126.2	1080.2	1034.2	1023.0	1025.1
45°	1213.3	1291.3	1275.3	1184.0	1127.6	1101.1	1070.4	1007.0	982.6	988.2	989.6
47.5°	1175.6	1257.2	1217.5	1115.7	1077.4	1050.9	982.6	944.3	940.8	948.5	952.6
50°	1135.2	1218.8	1156.1	1053.7	1023.0	991.7	914.3	894.8	899.0	906.6	911.5
52.5°	1097.6	1175.6	1092.7	995.8	969.4	897.6	845.3	848.8	855.8	864.8	867.6
55°	1051.6	1123.4	1025.1	937.3	912.2	818.1	794.4	802.8	809.8	817.4	823.0
57.5°	1003.5	1063.4	945.0	871.8	831.4	747.8	749.8	755.4	760.3	769.4	317.8
60°	948.5	995.1	857.2	811.2	731.0	692.0	694.1	703.8	708.7	395.8	218.8
62.5°	891.3	915.7	777.7	742.2	639.0	636.3	646.0	650.2	442.5	209.1	204.9
65°	825.8	820.9	699.7	643.2	576.3	579.1	589.6	568.7	195.8	195.8	194.4
67.5°	753.3	724.1	623.7	532.4	515.7	522.0	533.1	186.1	181.2	182.6	177.7
70°	670.4	629.3	545.0	450.9	456.5	462.7	179.8	168.6	166.6	163.1	153.3
72.5°	582.6	526.1	446.0	391.6	395.1	248.1	157.5	151.9	145.0	138.0	127.5
75°	484.3	411.2	327.5	327.5	332.4	141.5	137.3	128.2	120.6	111.5	105.2
77.5°	379.8	316.4	254.4	264.1	128.9	118.5	110.8	101.0	94.8	89.2	85.7
80°	278.1	220.9	191.6	171.4	100.4	89.9	82.2	76.7	73.9	70.4	66.2
82.5°	182.6	133.1	133.1	80.8	70.4	62.0	59.9	55.8	53.0	50.9	48.8
85°	87.1	77.4	58.5	49.5	43.9	39.7	38.3	36.2	36.2	35.5	34.8
87.5°	32.1	34.8	25.8	25.1	23.7	23.0	23.7	23.7	24.4	23.7	23.0
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°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1570.8	1576.3	1580.5	1587.5	1596.6	1604.2	1611.2	1620.9	1636.3	1640.5	1643.9
5°	1617.5	1619.6	1624.4	1630.0	1631.4	1634.9	1634.2	1638.4	1640.5	1645.3	1634.9
7.5°	1620.2	1609.1	1595.9	1584.0	1575.6	1568.0	1563.1	1570.8	1575.0	1578.4	1568.0
10°	1561.7	1548.5	1540.8	1533.8	1525.5	1513.6	1497.6	1501.1	1499.7	1499.7	1496.2
12.5°	1524.8	1506.0	1486.4	1469.0	1461.4	1460.7	1461.4	1469.0	1469.0	1468.3	1464.1
15°	1466.9	1448.8	1439.1	1434.9	1434.9	1432.8	1432.8	1441.2	1439.1	1439.1	1437.0
17.5°	1428.6	1416.1	1409.1	1404.2	1402.1	1405.6	1409.8	1413.3	1414.0	1411.2	1400.0
20°	1397.2	1385.4	1377.0	1378.4	1377.7	1379.8	1381.9	1370.1	1355.4	1335.9	1326.9
22.5°	1364.5	1355.4	1349.2	1349.2	1340.8	1327.6	1308.0	1303.9	1301.8	1292.7	1285.0
25°	1333.1	1322.7	1313.6	1285.7	1268.3	1270.4	1266.9	1260.0	1259.3	1258.6	1261.4
27.5°	1301.8	1274.6	1239.8	1235.6	1228.6	1227.9	1232.1	1235.6	1235.6	1238.4	1241.8
30°	1237.0	1205.6	1199.3	1191.7	1194.5	1204.2	1206.3	1211.2	1212.6	1217.5	1220.2
32.5°	1177.7	1163.8	1158.2	1161.7	1170.8	1179.1	1184.0	1186.1	1189.6	1193.8	1197.2
35°	1129.6	1125.5	1130.3	1138.0	1147.1	1154.0	1158.2	1162.4	1165.9	1169.4	1172.2
37.5°	1094.1	1096.9	1103.9	1113.6	1122.7	1128.3	1131.7	1136.6	1141.5	1145.7	1128.9
40°	1060.7	1067.6	1075.3	1085.7	1093.4	1099.0	1102.5	1108.7	1066.9	482.9	264.8
42.5°	1031.4	1039.0	1044.6	1053.0	1061.3	1065.5	1034.9	462.0	261.3	259.9	263.4
45°	995.8	1002.1	1011.2	1017.4	1025.1	673.2	257.1	259.9	255.8	258.5	259.9
47.5°	959.6	969.4	974.2	929.6	276.7	255.8	253.0	255.8	253.0	256.5	254.4
50°	918.5	930.3	662.0	250.2	248.1	246.7	249.5	248.1	250.2	253.0	247.4
52.5°	876.7	542.9	242.5	241.1	242.5	241.1	246.0	242.5	243.2	240.4	233.5
55°	296.9	234.8	232.8	232.1	236.2	236.2	236.2	230.7	227.2	220.2	215.3
57.5°	227.2	227.2	226.5	227.2	225.8	224.4	218.1	213.2	208.4	198.6	195.8
60°	215.3	215.3	215.3	215.3	209.1	206.3	196.5	192.3	184.0	179.1	176.3
62.5°	205.6	204.2	197.9	195.8	188.9	181.2	175.6	171.4	163.1	160.3	158.2
65°	191.6	186.8	179.1	170.7	167.3	158.9	156.1	149.8	145.6	143.6	142.2
67.5°	168.6	161.7	155.4	149.8	143.6	140.8	137.3	132.4	129.6	128.2	126.8
70°	144.3	139.4	133.1	129.6	125.4	123.3	118.5	117.1	115.0	112.9	110.8
72.5°	120.6	117.8	115.0	110.1	108.7	107.3	102.4	99.7	96.9	94.1	92.7
75°	101.0	99.0	97.6	93.4	91.3	87.1	83.6	81.5	79.4	77.4	76.0
77.5°	82.9	81.5	77.4	74.6	73.2	69.7	68.3	69.0	67.6	64.8	63.4
80°	64.8	63.4	59.9	59.9	58.5	57.1	55.8	54.4	53.0	50.9	49.5
82.5°	49.5	48.1	46.7	45.3	43.9	43.2	42.5	41.1	39.7	38.3	37.6
85°	34.8	34.1	33.5	32.8	32.1	31.4	30.7	29.3	27.9	27.2	26.5
87.5°	23.7	23.0	22.3	21.6	20.9	20.2	19.5	18.8	17.4	16.7	16.0
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°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1643.9	1647.4	1643.9	1636.3	1631.4	1629.3	1633.5	1633.5	1636.3	1639.8	1640.5
5°	1618.2	1609.8	1600.0	1590.3	1585.4	1582.6	1575.0	1576.3	1578.4	1579.8	1581.2
7.5°	1554.0	1542.9	1529.7	1517.1	1512.2	1508.1	1499.0	1499.0	1499.0	1499.7	1503.9
10°	1488.5	1483.7	1478.1	1469.7	1463.5	1461.4	1453.7	1455.8	1454.4	1456.5	1461.4
12.5°	1457.9	1452.3	1447.4	1439.1	1432.1	1429.3	1425.8	1427.9	1427.2	1430.7	1434.9
15°	1430.0	1427.2	1421.6	1415.4	1409.1	1403.5	1391.0	1386.8	1384.0	1380.5	1385.4
17.5°	1384.0	1364.5	1351.3	1341.5	1334.5	1329.6	1326.2	1326.2	1328.3	1330.3	1334.5
20°	1321.3	1315.7	1309.4	1299.0	1292.0	1289.2	1287.1	1287.1	1290.6	1293.4	1301.1
22.5°	1278.1	1277.4	1275.3	1270.4	1266.9	1266.9	1267.6	1269.0	1273.9	1278.1	1285.7
25°	1257.9	1260.7	1259.3	1256.5	1254.4	1255.1	1253.7	1255.1	1260.0	1264.1	1270.4
27.5°	1241.8	1246.0	1244.6	1240.4	1237.0	1238.4	1240.4	1239.1	1243.2	1248.1	1253.0
30°	1220.2	1220.9	1223.7	1218.8	1217.5	1219.5	1220.2	1221.6	1225.8	1229.3	1233.5
32.5°	1195.8	1201.4	1200.7	1195.8	1195.8	1197.9	1198.6	1151.9	1064.8	917.1	876.7
35°	1172.2	1178.4	1168.0	984.7	681.5	363.8	280.8	271.1	273.2	274.6	276.0
37.5°	866.9	411.2	262.0	264.1	266.2	268.3	270.4	272.5	274.6	276.7	277.4
40°	260.6	259.9	262.0	264.8	266.9	268.3	271.1	273.2	275.3	277.4	278.1
42.5°	257.8	259.2	261.3	264.1	266.9	269.7	271.8	274.6	276.0	277.4	278.1
45°	256.5	259.2	262.0	264.1	266.2	267.6	269.0	269.7	269.0	269.0	270.4
47.5°	254.4	257.1	257.8	257.1	257.8	257.1	257.1	257.1	255.1	254.4	254.4
50°	246.7	246.7	245.3	242.5	241.8	241.1	239.7	239.0	236.2	235.5	235.5
52.5°	230.7	230.0	227.9	224.4	223.0	221.6	220.9	220.2	217.4	216.0	216.7
55°	211.9	210.5	208.4	204.2	203.5	202.1	201.4	200.7	197.9	199.3	197.2
57.5°	194.4	191.6	188.9	188.2	185.4	184.7	184.0	183.3	181.2	181.9	180.5
60°	173.5	172.8	171.4	168.6	168.6	167.9	167.9	166.6	165.2	164.5	164.5
62.5°	158.2	156.1	154.7	154.7	152.6	152.6	152.6	151.2	149.8	150.5	149.8
65°	141.5	140.8	140.1	138.7	138.7	138.0	138.0	136.6	134.5	135.2	133.8
67.5°	127.5	126.1	124.7	124.0	121.3	119.9	119.2	118.5	115.7	116.4	115.0
70°	110.1	108.0	106.6	105.2	103.1	101.7	101.7	100.4	98.3	99.0	97.6
72.5°	92.0	90.6	89.2	88.5	86.4	85.7	85.0	84.3	82.2	82.9	82.2
75°	76.7	76.7	76.0	75.3	73.2	71.1	69.7	69.0	67.6	68.3	66.9
77.5°	63.4	62.0	60.6	60.6	58.5	57.1	55.8	55.8	55.8	55.1	54.4
80°	49.5	48.1	48.1	47.4	46.0	44.6	43.9	43.9	43.2	43.2	42.5
82.5°	37.6	36.2	35.5	35.5	34.1	33.5	32.8	32.1	32.1	32.1	31.4
85°	26.5	25.1	24.4	24.4	23.0	22.3	22.3	21.6	21.6	20.9	20.9
87.5°	16.0	15.3	14.6	14.6	13.2	12.5	12.5	12.5	11.8	11.8	11.2
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-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1640.5	1640.5	1635.6	1637.0	1634.9	1637.7	1634.2	1634.2	1638.4	1638.4	1641.2
5°	1581.9	1578.4	1577.7	1576.3	1569.4	1572.2	1568.7	1565.2	1570.1	1570.1	1576.3
7.5°	1501.8	1495.5	1498.3	1494.1	1489.9	1483.7	1485.8	1483.0	1486.4	1491.3	1497.6
10°	1460.7	1455.1	1458.6	1454.4	1456.5	1447.4	1448.1	1448.8	1452.3	1453.7	1459.3
12.5°	1434.2	1432.8	1431.4	1430.0	1431.4	1426.5	1423.7	1424.4	1425.8	1426.5	1430.7
15°	1378.4	1369.4	1372.2	1362.4	1363.1	1363.8	1358.2	1363.8	1363.1	1372.2	1380.5
17.5°	1333.1	1333.1	1328.3	1324.1	1321.3	1320.6	1316.4	1319.2	1316.4	1322.0	1324.1
20°	1301.8	1301.1	1300.4	1298.3	1291.3	1292.0	1294.1	1287.8	1287.1	1286.4	1290.6
22.5°	1287.1	1287.8	1285.0	1285.0	1278.8	1280.2	1280.9	1273.9	1274.6	1272.5	1274.6
25°	1271.8	1273.2	1269.7	1269.7	1268.3	1267.6	1264.1	1265.5	1261.4	1257.9	1261.4
27.5°	1253.7	1256.5	1253.7	1255.1	1252.3	1250.9	1248.8	1247.4	1243.2	1242.5	1244.6
30°	1237.0	1238.4	1237.7	1234.2	1233.5	1229.3	1231.4	1227.2	1223.0	1223.7	1225.1
32.5°	634.2	605.6	466.9	421.6	417.4	432.8	512.9	624.4	809.1	988.2	1117.1
35°	276.7	276.7	276.7	276.0	276.0	275.3	274.6	273.9	273.2	272.5	271.8
37.5°	278.1	278.1	278.1	278.1	277.4	276.7	276.7	275.3	274.6	273.9	273.2
40°	278.8	279.4	279.4	279.4	278.8	278.8	278.1	276.7	276.0	274.6	273.2
42.5°	278.1	278.8	278.8	278.1	278.1	277.4	277.4	276.7	276.0	275.3	274.6
45°	269.0	269.7	268.3	268.3	267.6	267.6	267.6	267.6	267.6	268.3	268.3
47.5°	253.0	253.0	252.3	251.6	251.6	250.9	251.6	250.9	252.3	253.0	254.4
50°	234.2	234.2	232.8	232.1	232.1	232.1	232.1	232.8	233.5	234.8	236.2
52.5°	214.6	214.6	213.9	213.2	212.5	212.5	214.6	213.9	214.6	215.3	217.4
55°	195.8	196.5	195.1	195.1	194.4	194.4	194.4	195.1	195.8	196.5	198.6
57.5°	179.8	179.8	178.4	178.4	178.4	177.7	179.8	178.4	179.1	179.8	181.2
60°	163.8	163.1	163.1	162.4	162.4	162.4	163.8	163.1	163.1	163.8	165.2
62.5°	149.1	149.1	148.4	148.4	147.7	147.7	149.1	148.4	148.4	149.1	149.8
65°	132.4	132.4	131.7	131.0	133.1	131.0	133.1	131.7	133.1	133.8	135.2
67.5°	113.6	113.6	113.6	112.9	112.9	114.3	115.0	113.6	114.3	115.7	116.4
70°	96.9	96.9	96.2	96.2	96.2	97.6	98.3	96.9	97.6	98.3	99.7
72.5°	82.2	80.8	80.8	80.1	81.5	81.5	82.2	81.5	82.2	82.2	83.6
75°	67.6	66.2	66.2	66.2	67.6	66.9	67.6	66.9	67.6	67.6	68.3
77.5°	54.4	53.7	53.0	53.0	54.4	54.4	54.4	53.7	54.4	55.1	55.8
80°	42.5	41.8	41.1	41.1	42.5	42.5	42.5	43.2	42.5	43.2	43.9
82.5°	31.4	30.7	30.0	31.4	31.4	31.4	31.4	32.1	31.4	32.1	32.8
85°	20.9	20.2	19.5	20.9	20.9	20.9	20.9	21.6	20.9	21.6	22.3
87.5°	11.2	10.5	10.5	11.2	11.2	11.2	11.8	11.8	11.8	12.5	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-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1645.3	1647.4	1646.7	1642.5	1638.4	1633.5	1630.0	1630.7	1637.7	1639.8	1633.5
5°	1576.3	1589.6	1589.6	1598.6	1593.8	1589.6	1592.4	1607.7	1615.4	1627.2	1631.4
7.5°	1505.3	1511.5	1510.8	1519.9	1518.5	1518.5	1520.6	1540.8	1550.6	1560.3	1563.1
10°	1465.5	1471.8	1471.1	1471.8	1469.7	1464.8	1464.8	1473.9	1482.3	1487.1	1488.5
12.5°	1437.0	1440.5	1439.8	1439.8	1438.4	1434.2	1433.5	1441.2	1450.2	1456.5	1457.2
15°	1394.5	1404.2	1406.3	1415.4	1413.3	1407.7	1409.1	1415.4	1420.9	1426.5	1424.4
17.5°	1331.0	1335.9	1336.6	1340.1	1338.7	1338.7	1347.1	1370.1	1385.4	1398.6	1400.0
20°	1294.8	1298.3	1296.9	1304.6	1301.1	1300.4	1302.5	1312.2	1319.2	1325.5	1336.6
22.5°	1277.4	1280.2	1278.1	1278.8	1272.5	1266.9	1265.5	1273.2	1280.9	1289.2	1289.2
25°	1262.7	1264.8	1264.1	1262.7	1257.9	1250.2	1248.8	1250.2	1253.0	1253.7	1248.8
27.5°	1245.3	1246.7	1246.7	1247.4	1241.1	1234.2	1232.8	1231.4	1234.2	1233.5	1225.8
30°	1227.2	1225.1	1225.8	1226.5	1220.9	1214.7	1211.9	1211.2	1214.0	1213.3	1205.6
32.5°	1184.0	1200.0	1201.4	1202.8	1197.9	1192.4	1189.6	1187.5	1188.9	1188.2	1181.2
35°	271.1	276.0	338.0	765.2	1039.0	1150.6	1162.4	1159.6	1160.3	1160.3	1154.7
37.5°	271.8	271.1	270.4	268.3	266.2	264.8	457.9	976.3	1131.0	1131.7	1126.9
40°	271.8	271.1	270.4	269.0	266.2	264.1	260.6	257.8	264.1	581.2	1063.4
42.5°	273.2	271.8	270.4	269.0	266.2	263.4	260.6	257.1	259.2	257.8	254.4
45°	269.0	268.3	268.3	267.6	266.2	263.4	259.9	255.8	253.7	255.8	252.3
47.5°	255.8	256.5	258.5	259.2	259.2	259.9	257.8	255.1	251.6	253.7	249.5
50°	237.6	239.0	239.7	243.2	244.6	247.4	248.1	248.1	247.4	250.2	247.4
52.5°	218.1	219.5	223.0	224.4	225.8	230.0	231.4	233.5	234.8	239.0	241.8
55°	199.3	200.0	201.4	204.2	206.3	209.8	211.9	213.9	217.4	219.5	227.9
57.5°	181.9	182.6	185.4	186.1	187.5	190.2	192.3	195.1	197.9	199.3	209.1
60°	165.2	165.9	167.9	168.6	169.3	172.1	174.2	176.3	178.4	179.8	186.8
62.5°	150.5	150.5	152.6	152.6	153.3	155.4	156.8	158.2	160.3	161.0	164.5
65°	135.9	136.6	138.0	138.0	138.7	140.1	140.8	141.5	143.6	143.6	146.3
67.5°	117.8	118.5	120.6	122.0	122.7	125.4	126.1	126.8	128.2	128.9	130.3
70°	100.4	101.0	103.1	103.8	104.5	106.6	108.0	110.1	112.2	114.3	115.7
72.5°	84.3	85.0	87.1	87.1	89.2	89.9	91.3	92.0	94.1	95.5	97.6
75°	69.0	69.7	71.8	71.8	73.9	74.6	75.3	76.0	77.4	78.7	80.1
77.5°	56.4	56.4	59.2	60.6	62.0	62.0	62.7	62.7	62.7	63.4	64.8
80°	44.6	44.6	46.7	48.1	49.5	49.5	50.2	50.9	51.6	51.6	52.3
82.5°	33.5	33.5	35.5	36.2	37.6	37.6	37.6	38.3	39.0	38.3	39.7
85°	23.0	23.0	24.4	25.1	26.5	26.5	26.5	27.2	27.9	27.2	27.9
87.5°	13.2	13.9	14.6	15.3	16.0	16.7	16.7	16.7	17.4	17.4	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1626.5	1618.2	1617.5	1607.7	1604.9	1605.6	1597.9	1595.2	1582.6	1579.8	1566.6
5°	1632.8	1637.0	1634.9	1634.2	1636.3	1634.9	1629.3	1626.5	1624.4	1618.9	1607.7
7.5°	1563.8	1566.6	1568.7	1577.7	1585.4	1598.6	1612.6	1621.6	1628.6	1630.0	1620.9
10°	1493.4	1506.7	1515.7	1529.7	1540.8	1548.5	1556.8	1564.5	1584.7	1604.9	1616.8
12.5°	1457.2	1460.7	1460.0	1467.6	1475.3	1495.5	1515.0	1526.2	1541.5	1550.6	1572.2
15°	1426.5	1427.2	1429.3	1434.9	1439.1	1446.0	1455.1	1471.8	1502.5	1516.4	1528.3
17.5°	1398.6	1398.6	1400.0	1404.9	1410.5	1416.8	1422.3	1429.3	1444.6	1467.6	1496.9
20°	1354.0	1373.6	1375.6	1374.9	1377.7	1389.6	1391.0	1403.5	1411.2	1420.2	1448.8
22.5°	1287.8	1299.7	1316.4	1342.2	1351.9	1357.5	1361.7	1367.3	1379.1	1389.6	1401.4
25°	1251.6	1259.3	1264.1	1271.8	1292.0	1324.8	1331.0	1337.3	1345.0	1352.6	1367.3
27.5°	1219.5	1218.8	1222.3	1229.3	1234.9	1252.3	1283.0	1307.3	1308.7	1319.9	1332.4
30°	1196.5	1192.4	1187.5	1186.1	1193.8	1202.8	1211.9	1250.2	1276.7	1282.3	1295.5
32.5°	1174.9	1168.0	1161.0	1155.4	1150.6	1158.2	1163.8	1180.5	1214.7	1246.7	1253.7
35°	1148.5	1141.5	1133.1	1126.9	1119.2	1118.5	1117.8	1133.8	1145.0	1183.3	1216.8
37.5°	1121.3	1113.6	1106.6	1099.7	1092.0	1086.4	1083.0	1087.1	1097.6	1114.3	1170.1
40°	1092.7	1083.7	1076.7	1071.1	1060.7	1056.5	1049.5	1046.7	1047.4	1062.0	1091.3
42.5°	653.0	1041.1	1044.6	1038.4	1029.3	1023.7	1016.1	1012.6	1005.6	1012.6	1029.3
45°	251.6	254.4	761.7	1006.3	995.1	988.2	981.2	977.7	970.1	964.5	979.8
47.5°	246.7	249.5	243.9	345.7	949.8	951.9	943.6	940.1	932.4	928.2	924.1
50°	243.2	245.3	241.1	242.5	237.6	870.4	905.2	901.1	892.7	887.8	879.5
52.5°	239.7	239.7	236.9	233.5	232.1	232.8	732.4	861.3	851.6	846.7	835.6
55°	228.6	230.0	232.8	227.2	225.8	225.1	223.0	697.6	806.3	800.7	791.0
57.5°	211.9	214.6	222.3	220.9	220.9	215.3	213.9	213.9	647.4	754.0	744.3
60°	192.3	195.1	203.5	206.3	208.4	207.0	205.6	204.9	202.1	682.2	694.8
62.5°	172.1	174.9	177.7	186.8	189.6	193.0	197.2	195.1	192.3	192.3	642.5
65°	150.5	154.7	156.1	164.5	167.9	174.2	177.7	182.6	181.2	180.5	184.0
67.5°	131.7	136.6	137.3	140.8	147.0	149.8	154.0	163.1	167.3	168.6	170.0
70°	115.7	118.5	120.6	122.0	126.1	126.8	134.5	140.8	147.0	154.0	156.1
72.5°	99.7	101.7	105.9	104.5	105.9	108.7	112.9	117.1	123.3	133.1	139.4
75°	81.5	82.9	85.7	87.1	89.9	92.0	94.8	98.3	103.8	108.7	117.1
77.5°	65.5	66.2	68.3	69.0	71.8	73.9	78.7	80.8	84.3	87.8	92.7
80°	53.0	53.0	53.7	53.7	55.8	57.8	61.3	63.4	67.6	70.4	70.4
82.5°	40.4	40.4	42.5	42.5	43.9	43.9	46.0	46.0	48.1	49.5	50.9
85°	28.6	29.3	30.7	30.0	31.4	30.7	32.1	33.5	34.1	33.5	32.8
87.5°	18.8	18.8	20.2	19.5	20.2	20.2	21.6	21.6	22.3	22.3	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1561.7	1551.3	1545.0	1537.3	1535.2	1533.1	1535.9	1535.9	1531.7	1528.3	1522.0
5°	1597.9	1586.8	1575.0	1562.4	1550.6	1538.0	1533.1	1532.4	1524.8	1520.6	1518.5
7.5°	1616.8	1611.2	1597.9	1580.5	1562.4	1540.1	1530.4	1524.8	1517.1	1515.7	1515.7
10°	1618.9	1612.6	1605.6	1593.1	1572.2	1542.9	1524.1	1512.9	1506.0	1510.8	1519.9
12.5°	1598.6	1610.5	1604.2	1595.9	1579.1	1543.6	1516.4	1499.7	1497.6	1510.1	1533.8
15°	1547.1	1581.9	1599.3	1591.0	1577.7	1542.2	1503.9	1484.4	1484.4	1510.1	1540.8
17.5°	1508.1	1535.2	1577.7	1584.7	1569.4	1539.4	1492.0	1469.0	1475.3	1512.9	1545.7
20°	1476.0	1492.7	1533.8	1572.9	1558.2	1533.1	1474.6	1450.9	1463.5	1508.7	1552.7
22.5°	1425.8	1459.3	1484.4	1542.2	1547.1	1521.3	1457.2	1428.6	1453.7	1508.7	1549.2
25°	1377.0	1417.5	1443.9	1500.4	1530.4	1506.7	1441.2	1404.9	1443.2	1506.7	1546.4
27.5°	1342.9	1361.7	1409.8	1450.2	1505.3	1487.1	1419.5	1379.1	1430.0	1495.5	1530.4
30°	1306.7	1319.2	1366.6	1404.9	1471.8	1464.8	1397.2	1350.6	1413.3	1485.1	1488.5
32.5°	1266.9	1280.9	1305.3	1361.0	1425.1	1443.9	1372.2	1322.0	1395.2	1469.0	1439.8
35°	1226.5	1237.0	1256.5	1316.4	1370.8	1412.6	1341.5	1289.2	1382.6	1444.6	1393.1
37.5°	1186.1	1197.2	1214.0	1264.1	1313.6	1383.3	1315.0	1256.5	1359.6	1401.4	1344.3
40°	1147.8	1154.0	1171.5	1202.8	1266.2	1353.3	1285.0	1222.3	1335.9	1346.4	1278.1
42.5°	1077.4	1108.7	1124.8	1149.9	1212.6	1312.2	1250.2	1186.1	1309.4	1291.3	1211.9
45°	1001.4	1069.7	1076.7	1101.8	1165.2	1268.3	1217.5	1150.6	1284.4	1243.9	1149.2
47.5°	939.4	988.9	1029.3	1050.2	1108.7	1216.8	1186.8	1120.6	1246.7	1184.0	1087.8
50°	884.3	910.8	984.0	999.3	1041.1	1154.7	1150.6	1085.7	1194.5	1108.7	1027.9
52.5°	830.7	849.5	915.7	948.5	982.6	1087.8	1107.3	1051.6	1137.3	1033.5	967.3
55°	784.0	790.3	826.5	895.5	926.2	1020.2	1060.0	1011.9	1064.8	961.7	908.7
57.5°	735.9	730.3	756.8	845.3	867.6	951.2	1009.8	971.5	1006.3	888.5	848.1
60°	685.7	678.1	689.2	747.8	805.6	882.9	950.5	926.9	935.2	816.0	780.5
62.5°	633.5	625.8	622.3	659.2	745.0	812.6	890.6	877.4	848.1	749.8	696.9
65°	579.1	571.4	565.9	580.5	678.1	721.3	823.7	820.2	752.6	680.2	586.8
67.5°	176.3	519.9	508.0	507.3	571.4	638.3	751.2	745.7	656.5	605.6	505.2
70°	158.9	421.6	448.1	441.8	469.7	554.0	668.3	664.1	563.1	485.7	446.7
72.5°	145.6	149.1	395.8	388.9	395.1	471.1	581.9	570.7	477.4	383.3	386.1
75°	124.7	131.0	136.6	328.2	319.9	390.3	487.8	470.4	393.7	316.4	322.7
77.5°	101.7	109.4	113.6	239.0	258.5	278.1	389.6	366.6	271.1	253.0	120.6
80°	76.0	82.2	89.2	95.5	196.5	194.4	289.2	266.2	188.9	157.5	94.1
82.5°	55.8	57.8	62.0	69.0	78.1	130.3	186.1	163.8	131.0	71.8	64.8
85°	34.8	37.6	39.7	41.8	47.4	78.1	92.0	73.2	55.1	43.9	41.1
87.5°	22.3	22.3	21.6	22.3	23.0	27.9	31.4	30.0	23.7	22.3	22.3
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-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1515.0	1505.3	1505.3	1502.5	1504.6	1504.6	1503.9	1504.6	1509.4	1512.2	1517.1
5°	1514.3	1511.5	1517.8	1525.5	1534.5	1545.7	1548.5	1558.2	1567.3	1579.1	1591.7
7.5°	1523.4	1533.1	1545.0	1557.5	1575.6	1588.9	1600.7	1612.6	1620.9	1632.1	1639.1
10°	1536.6	1556.1	1576.3	1592.4	1611.9	1623.0	1630.7	1632.1	1620.2	1601.4	1586.1
12.5°	1555.4	1578.4	1597.3	1612.6	1621.6	1617.5	1595.2	1572.2	1558.9	1539.4	1512.2
15°	1571.5	1592.4	1611.9	1605.6	1581.2	1558.2	1540.8	1513.6	1487.1	1469.0	1457.2
17.5°	1578.4	1598.6	1591.7	1558.9	1535.9	1509.4	1473.9	1453.0	1435.6	1421.6	1414.7
20°	1582.6	1579.1	1541.5	1517.8	1473.2	1448.8	1425.8	1406.3	1393.1	1386.1	1384.7
22.5°	1571.5	1529.0	1496.9	1454.4	1421.6	1401.4	1383.3	1367.3	1358.2	1352.6	1349.2
25°	1534.5	1485.1	1437.7	1404.2	1376.3	1358.9	1345.0	1331.7	1320.6	1317.8	1310.8
27.5°	1483.0	1442.5	1379.8	1354.0	1329.6	1321.3	1306.0	1292.7	1283.0	1274.6	1252.3
30°	1440.5	1376.3	1331.0	1307.3	1292.7	1283.0	1265.5	1251.6	1234.9	1204.2	1191.7
32.5°	1388.2	1324.8	1281.6	1268.3	1250.2	1241.8	1222.3	1191.7	1165.9	1153.3	1152.6
35°	1320.6	1268.3	1237.0	1225.1	1210.5	1196.5	1156.1	1128.3	1115.7	1117.1	1127.6
37.5°	1264.1	1217.5	1197.2	1180.5	1163.8	1128.3	1094.1	1080.9	1084.3	1091.3	1096.2
40°	1207.0	1171.5	1148.5	1135.2	1097.6	1062.7	1044.6	1049.5	1055.8	1060.7	1066.9
42.5°	1151.2	1126.2	1103.2	1077.4	1025.8	1007.0	1011.2	1017.4	1023.0	1030.0	1036.3
45°	1098.3	1076.0	1049.5	991.0	965.2	970.1	976.3	981.2	989.6	994.4	1000.7
47.5°	1048.1	1024.4	977.7	926.2	923.4	933.1	938.7	945.0	951.2	938.7	517.8
50°	991.7	967.3	896.2	876.7	882.9	892.0	899.0	905.2	806.3	320.6	246.7
52.5°	935.9	873.9	828.6	834.2	840.4	850.9	855.8	635.6	253.0	241.1	241.8
55°	873.9	794.4	781.2	788.2	793.7	804.2	533.1	233.5	232.1	231.4	236.9
57.5°	776.3	728.2	733.8	740.8	746.4	526.8	227.2	225.8	226.5	227.2	227.9
60°	689.2	678.8	685.0	691.3	489.2	219.5	215.3	216.0	218.8	216.7	211.2
62.5°	620.2	628.6	634.9	556.1	208.4	206.3	208.4	206.3	201.4	197.9	190.9
65°	567.3	575.6	580.5	195.8	195.1	197.9	195.8	188.9	181.2	171.4	169.3
67.5°	511.5	519.9	186.1	181.2	184.0	180.5	172.1	163.8	158.2	149.8	146.3
70°	453.7	194.4	168.6	167.9	163.1	157.5	148.4	140.1	133.1	129.6	126.1
72.5°	327.5	154.0	151.9	146.3	138.0	130.3	122.7	117.8	114.3	112.2	110.1
75°	136.6	133.8	127.5	117.8	109.4	105.9	100.4	96.9	95.5	91.3	89.9
77.5°	114.3	108.7	99.7	92.7	87.8	85.7	81.5	77.4	75.3	74.6	71.8
80°	87.8	80.1	76.0	72.5	71.1	66.2	61.3	59.2	57.8	57.1	55.1
82.5°	59.9	57.1	54.4	49.5	49.5	47.4	45.3	43.9	42.5	42.5	41.1
85°	39.0	36.9	36.2	34.1	34.1	32.8	32.1	31.4	30.7	30.0	29.3
87.5°	22.3	22.3	23.0	22.3	22.3	21.6	20.9	20.2	19.5	19.5	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1523.4	1530.4	1531.7	1555.4	1568.7	1568.0	1563.8	1576.3	1568.7	1564.5	1568.7
5°	1604.2	1612.6	1619.6	1645.3	1654.4	1658.6	1657.9	1664.8	1659.3	1654.4	1654.4
7.5°	1643.9	1646.7	1649.5	1643.2	1639.1	1632.1	1621.6	1606.3	1598.6	1590.3	1579.8
10°	1578.4	1569.4	1572.9	1560.3	1549.9	1542.2	1532.4	1519.9	1509.4	1501.8	1489.9
12.5°	1498.3	1497.6	1499.0	1501.1	1490.6	1484.4	1476.7	1467.6	1460.0	1451.6	1441.8
15°	1449.5	1450.2	1455.8	1453.7	1450.2	1446.7	1438.4	1435.6	1428.6	1419.5	1414.0
17.5°	1414.7	1418.2	1423.7	1420.9	1415.4	1411.9	1405.6	1399.3	1393.1	1386.1	1377.7
20°	1384.0	1387.5	1391.0	1387.5	1377.0	1372.2	1363.8	1344.3	1330.3	1316.4	1303.9
22.5°	1350.6	1352.6	1349.9	1338.7	1312.2	1299.7	1289.9	1284.4	1272.5	1264.8	1257.2
25°	1308.7	1296.9	1278.8	1266.2	1255.8	1250.2	1246.0	1245.3	1243.9	1242.5	1239.1
27.5°	1240.4	1236.3	1226.5	1221.6	1222.3	1224.4	1225.1	1227.2	1225.1	1222.3	1219.5
30°	1189.6	1191.7	1192.4	1193.8	1197.2	1199.3	1200.0	1202.8	1201.4	1199.3	1197.9
32.5°	1157.5	1162.4	1165.2	1169.4	1171.5	1174.9	1174.9	1179.1	1174.9	1174.2	1172.9
35°	1131.0	1135.2	1136.6	1142.9	1145.0	1148.5	1148.5	1151.9	1148.5	1112.9	878.8
37.5°	1104.6	1108.7	1111.5	1117.1	1117.8	1119.9	1033.5	756.1	487.8	377.7	288.5
40°	1073.2	1078.1	1080.9	1083.0	761.0	482.9	332.4	270.4	270.4	272.5	274.6
42.5°	1039.7	1043.2	726.8	423.0	263.4	262.7	264.8	266.9	269.0	271.8	274.6
45°	817.4	412.6	262.0	255.8	257.8	260.6	263.4	266.2	269.7	272.5	273.9
47.5°	268.3	251.6	255.1	252.3	255.8	259.2	262.0	264.8	265.5	266.2	265.5
50°	248.1	248.1	250.2	250.2	253.0	254.4	254.4	254.4	251.6	250.9	248.8
52.5°	239.7	245.3	242.5	243.9	242.5	240.4	238.3	236.2	232.1	230.7	227.9
55°	235.5	237.6	230.7	228.6	225.8	220.2	217.4	214.6	211.2	209.8	206.3
57.5°	225.8	220.9	213.2	209.8	204.9	199.3	196.5	194.4	190.9	189.6	187.5
60°	207.7	197.9	193.0	188.9	183.3	178.4	176.3	174.9	172.1	171.4	169.3
62.5°	185.4	177.0	172.8	167.3	163.1	160.3	158.2	157.5	154.7	154.7	153.3
65°	161.0	156.8	153.3	147.7	145.6	142.9	142.2	141.5	140.1	139.4	138.0
67.5°	141.5	138.7	133.8	131.0	129.6	127.5	126.1	124.7	122.0	120.6	118.5
70°	124.0	122.0	117.1	115.0	112.2	108.7	106.6	105.2	103.1	101.7	99.7
72.5°	107.3	101.0	97.6	95.5	93.4	89.9	89.2	87.8	85.7	85.0	82.9
75°	86.4	81.5	79.4	78.1	76.0	73.9	73.9	73.9	71.8	71.1	70.4
77.5°	69.0	66.2	64.8	63.4	62.7	61.3	59.2	58.5	56.4	56.4	55.8
80°	53.0	51.6	50.2	49.5	48.8	47.4	46.0	45.3	43.2	43.2	42.5
82.5°	39.0	38.3	37.6	36.9	36.2	35.5	33.5	32.8	31.4	31.4	30.7
85°	27.9	27.2	25.8	25.1	25.1	24.4	22.3	21.6	20.2	20.2	20.2
87.5°	17.4	16.7	16.0	15.3	14.6	13.9	12.5	11.8	11.8	10.5	9.8
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-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1560.3	1572.2	1570.8	1579.1	1581.2	1585.4	1586.8	1587.5	1577.0	1585.4	1586.1
5°	1652.3	1654.4	1655.8	1659.3	1662.8	1663.5	1660.0	1655.8	1657.2	1654.4	1647.4
7.5°	1578.4	1568.0	1565.9	1563.1	1561.7	1560.3	1554.0	1559.6	1553.3	1550.6	1540.8
10°	1487.8	1478.1	1477.4	1477.4	1479.5	1478.8	1477.4	1474.6	1480.2	1476.7	1474.6
12.5°	1440.5	1437.0	1439.1	1437.7	1443.2	1444.6	1443.2	1443.2	1441.8	1439.1	1440.5
15°	1411.9	1409.1	1411.2	1409.1	1413.3	1414.0	1410.5	1412.6	1409.1	1405.6	1404.2
17.5°	1374.2	1368.0	1363.1	1356.1	1356.8	1355.4	1351.3	1351.3	1347.8	1338.7	1339.4
20°	1301.8	1295.5	1292.7	1292.7	1296.2	1297.6	1296.9	1298.3	1294.8	1293.4	1287.8
22.5°	1256.5	1255.8	1257.2	1260.7	1266.2	1273.9	1274.6	1274.6	1274.6	1273.9	1266.9
25°	1240.4	1240.4	1241.8	1246.7	1250.9	1256.5	1257.9	1259.3	1257.9	1257.9	1251.6
27.5°	1222.3	1220.9	1223.7	1228.6	1233.5	1237.7	1241.1	1241.8	1239.8	1239.8	1241.8
30°	1200.0	1199.3	1202.8	1207.7	1211.9	1216.1	1219.5	1222.3	1219.5	1219.5	1217.5
32.5°	1177.0	1177.0	1178.4	1149.2	1065.5	959.6	961.7	900.4	857.9	804.2	875.3
35°	734.5	534.5	459.2	388.9	339.4	307.3	306.6	296.2	291.3	287.8	287.1
37.5°	277.4	278.8	281.5	282.9	285.0	286.4	287.1	287.1	287.1	287.1	286.4
40°	276.7	279.4	281.5	283.6	285.7	287.1	287.1	287.8	288.5	288.5	288.5
42.5°	277.4	280.1	282.9	285.0	286.4	287.1	287.8	288.5	288.5	288.5	288.5
45°	276.7	278.1	278.1	278.8	278.8	278.8	279.4	279.4	278.8	278.1	279.4
47.5°	266.2	266.2	264.1	263.4	262.7	261.3	262.0	261.3	260.6	259.9	261.3
50°	248.1	245.3	243.9	242.5	241.8	240.4	241.1	240.4	239.7	238.3	240.4
52.5°	226.5	225.8	223.0	221.6	220.9	221.6	220.2	219.5	218.8	218.1	218.8
55°	205.6	202.8	202.1	200.7	200.0	200.7	200.0	199.3	198.6	197.9	198.6
57.5°	186.8	184.7	184.0	182.6	182.6	182.6	182.6	181.9	181.2	180.5	181.2
60°	168.6	167.3	166.6	166.6	165.9	165.9	165.9	165.2	164.5	164.5	165.2
62.5°	153.3	153.3	151.2	150.5	150.5	151.2	150.5	149.8	149.1	148.4	149.8
65°	137.3	134.5	133.8	132.4	131.0	131.7	131.0	130.3	129.6	128.9	130.3
67.5°	117.8	117.1	114.3	112.9	112.2	112.9	112.2	111.5	110.8	110.1	111.5
70°	99.0	99.0	96.2	95.5	94.8	94.8	94.1	94.1	93.4	92.7	94.1
72.5°	82.2	82.2	81.5	80.1	79.4	78.7	78.1	77.4	77.4	78.1	78.1
75°	68.3	66.9	64.1	64.8	64.1	63.4	63.4	62.7	62.0	63.4	62.7
77.5°	53.7	53.0	50.9	51.6	50.9	50.2	50.2	49.5	48.8	49.5	49.5
80°	40.4	40.4	39.7	39.0	39.0	38.3	37.6	37.6	36.9	37.6	37.6
82.5°	29.3	29.3	28.6	27.9	27.2	27.2	26.5	26.5	26.5	26.5	26.5
85°	18.8	18.1	18.1	16.7	16.7	16.7	16.0	16.0	16.0	16.0	16.0
87.5°	9.1	9.1	8.4	8.4	7.7	7.0	7.0	6.3	6.3	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1573.6	1582.6	1575.0	1578.4	1579.1	1591.0	1590.3	1593.1	1588.2	1582.6	1575.0
5°	1653.7	1649.5	1643.9	1657.2	1650.2	1658.6	1661.4	1666.9	1666.9	1666.2	1660.0
7.5°	1551.3	1542.2	1549.2	1554.0	1556.1	1550.6	1561.7	1574.3	1584.7	1591.0	1591.7
10°	1471.1	1473.9	1473.2	1475.3	1480.2	1479.5	1486.4	1493.4	1496.2	1500.4	1501.8
12.5°	1433.5	1432.8	1434.2	1439.1	1441.8	1441.2	1448.1	1452.3	1453.7	1454.4	1453.7
15°	1403.5	1398.6	1402.1	1402.8	1404.9	1404.9	1413.3	1419.5	1422.3	1423.7	1422.3
17.5°	1347.1	1335.2	1346.4	1346.4	1354.0	1352.6	1365.9	1376.3	1381.9	1386.1	1386.1
20°	1291.3	1285.7	1289.9	1288.5	1294.1	1293.4	1301.8	1308.7	1313.6	1317.1	1321.3
22.5°	1269.0	1270.4	1264.1	1264.8	1264.8	1264.1	1268.3	1271.8	1273.2	1275.3	1273.9
25°	1254.4	1255.8	1253.7	1250.2	1248.8	1250.2	1252.3	1256.5	1257.2	1255.8	1250.9
27.5°	1239.8	1235.6	1239.1	1232.8	1231.4	1234.2	1237.0	1237.7	1238.4	1238.4	1234.2
30°	1217.5	1214.0	1217.5	1214.7	1211.9	1214.7	1216.8	1216.8	1218.1	1218.8	1214.0
32.5°	850.9	857.9	970.8	1039.0	1135.2	1184.0	1193.1	1193.1	1194.5	1194.5	1190.3
35°	289.9	290.6	314.3	340.8	397.2	466.9	558.2	605.6	765.9	957.5	1142.9
37.5°	286.4	285.7	285.0	284.3	283.6	282.9	281.5	280.8	285.0	338.0	458.5
40°	287.8	287.1	285.7	285.0	284.3	282.9	282.2	280.8	279.4	278.1	276.7
42.5°	287.8	287.1	286.4	285.7	285.0	284.3	282.9	281.5	280.1	278.1	276.0
45°	278.1	278.1	278.8	278.8	279.4	279.4	279.4	278.8	278.8	278.1	275.3
47.5°	259.9	259.9	262.0	262.0	263.4	264.8	264.8	266.2	268.3	269.7	270.4
50°	239.0	239.0	241.1	241.8	243.2	245.3	247.4	248.1	250.2	253.0	255.8
52.5°	218.1	218.1	220.2	220.2	221.6	223.7	225.8	226.5	229.3	232.1	235.5
55°	198.6	198.6	200.0	200.7	201.4	202.8	204.9	204.9	207.7	209.8	213.2
57.5°	181.2	182.6	182.6	182.6	183.3	184.7	186.1	186.1	188.2	190.2	193.0
60°	164.5	165.9	165.9	165.9	166.6	167.3	168.6	168.6	170.0	171.4	174.2
62.5°	149.1	150.5	150.5	151.2	151.2	151.9	153.3	152.6	154.0	154.7	156.8
65°	129.6	131.0	131.7	132.4	133.1	134.5	136.6	135.9	138.0	139.4	141.5
67.5°	110.8	112.2	112.2	112.9	113.6	115.0	116.4	116.4	118.5	119.9	122.7
70°	93.4	94.8	94.8	95.5	96.2	97.6	99.0	98.3	100.4	101.7	103.8
72.5°	77.4	78.7	78.7	79.4	79.4	80.8	82.2	83.6	83.6	85.0	86.4
75°	62.7	63.4	64.1	64.1	64.8	65.5	66.9	68.3	69.0	69.7	71.1
77.5°	49.5	50.2	50.9	50.9	51.6	52.3	53.0	55.8	57.1	57.8	57.8
80°	37.6	38.3	38.3	38.3	39.0	39.7	41.1	41.1	43.9	43.9	44.6
82.5°	26.5	27.2	27.2	27.2	27.9	29.3	30.0	30.7	32.1	32.8	32.8
85°	16.0	16.7	16.7	16.7	17.4	18.1	19.5	20.2	20.9	20.9	21.6
87.5°	6.3	7.0	7.7	7.7	8.4	9.1	9.8	10.5	11.2	11.2	11.8
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-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1566.6	1571.5	1566.6	1569.4	1572.9	1566.6	1552.0	1546.4	1544.3	1535.9	1530.4
5°	1653.7	1653.7	1651.6	1657.2	1656.5	1646.7	1631.4	1624.4	1617.5	1608.4	1601.4
7.5°	1591.7	1597.3	1600.7	1622.3	1636.3	1637.7	1647.4	1649.5	1652.3	1649.5	1645.3
10°	1502.5	1500.4	1510.1	1530.4	1542.2	1548.5	1567.3	1576.3	1584.0	1599.3	1615.4
12.5°	1452.3	1455.1	1459.3	1473.9	1485.1	1482.3	1489.9	1496.2	1505.3	1520.6	1543.6
15°	1418.9	1421.6	1425.8	1437.0	1443.9	1440.5	1444.6	1448.8	1455.1	1462.8	1476.7
17.5°	1382.6	1387.5	1392.4	1404.2	1410.5	1409.8	1413.3	1414.7	1416.8	1421.6	1431.4
20°	1326.2	1341.5	1351.3	1367.3	1376.3	1374.9	1381.2	1383.3	1386.1	1391.0	1395.2
22.5°	1274.6	1278.8	1283.7	1301.1	1316.4	1335.2	1339.4	1345.0	1351.9	1356.8	1361.0
25°	1245.3	1242.5	1244.6	1256.5	1264.8	1266.2	1272.5	1290.6	1309.4	1317.8	1327.6
27.5°	1227.9	1225.1	1224.4	1230.0	1231.4	1227.9	1226.5	1232.1	1246.0	1260.0	1289.2
30°	1209.1	1205.6	1202.8	1207.7	1209.8	1204.9	1195.8	1191.0	1199.3	1202.8	1214.7
32.5°	1186.8	1183.3	1181.9	1184.7	1186.1	1181.9	1172.2	1166.6	1165.2	1162.4	1165.2
35°	1161.7	1158.2	1156.1	1156.8	1159.6	1156.1	1147.8	1140.8	1137.3	1129.6	1124.1
37.5°	598.6	848.1	1101.1	1127.6	1130.3	1129.6	1121.3	1113.6	1110.1	1101.1	1098.3
40°	273.9	305.9	459.2	600.0	865.5	1099.7	1092.0	1084.3	1078.1	1075.3	1064.8
42.5°	273.2	273.9	274.6	271.1	335.9	572.1	844.6	1054.4	1050.2	1043.2	1035.6
45°	273.2	269.7	272.5	268.3	269.7	269.0	335.2	540.8	962.4	1005.6	1002.1
47.5°	270.4	268.3	271.1	267.6	263.4	265.5	262.7	266.2	415.3	704.5	965.2
50°	257.8	259.2	264.1	263.4	259.9	262.7	257.8	262.0	258.5	283.6	546.4
52.5°	239.0	241.8	246.7	250.9	252.3	255.8	254.4	255.8	253.0	253.7	254.4
55°	216.7	220.2	224.4	230.7	233.5	239.0	243.2	245.3	248.8	248.1	242.5
57.5°	195.8	199.3	202.8	209.1	215.3	218.1	225.8	230.0	239.0	236.9	235.5
60°	176.3	179.1	182.6	184.0	191.6	196.5	203.5	207.7	219.5	222.3	226.5
62.5°	158.9	160.3	163.1	165.2	170.0	174.9	178.4	185.4	191.6	200.7	207.0
65°	142.9	144.3	146.3	147.7	148.4	155.4	157.5	165.2	167.3	177.0	182.6
67.5°	124.7	127.5	130.3	131.7	133.1	137.3	138.7	142.2	147.0	151.2	158.2
70°	105.9	108.0	110.8	112.9	115.7	118.5	122.7	124.7	128.2	131.0	136.6
72.5°	88.5	90.6	92.0	94.1	96.2	98.3	101.7	106.6	109.4	114.3	115.7
75°	71.8	73.9	75.3	76.7	78.7	80.1	81.5	86.4	89.2	93.4	97.6
77.5°	59.2	59.2	60.6	64.8	64.1	64.1	65.5	68.3	70.4	73.2	77.4
80°	46.0	46.7	47.4	50.9	51.6	52.3	51.6	53.7	55.8	56.4	59.2
82.5°	34.1	34.8	34.8	36.9	39.0	39.0	39.0	39.7	41.8	42.5	43.9
85°	23.0	23.7	24.4	25.1	26.5	27.2	27.9	27.9	29.3	30.0	30.7
87.5°	12.5	13.9	14.6	15.3	16.0	16.7	17.4	18.1	18.8	19.5	20.2
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-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1528.3	1524.8	1522.7	1517.1	1515.7	1506.7	1508.1	1506.7	1506.7	1508.7	1515.7
5°	1593.8	1577.0	1572.9	1561.0	1551.3	1534.5	1524.1	1518.5	1510.1	1506.7	1511.5
7.5°	1638.4	1625.8	1615.4	1604.9	1591.0	1571.5	1556.8	1540.1	1526.2	1512.9	1509.4
10°	1630.7	1644.6	1644.6	1638.4	1625.1	1605.6	1588.2	1567.3	1542.9	1522.0	1509.4
12.5°	1565.9	1590.3	1609.8	1624.4	1637.7	1624.4	1607.0	1590.3	1563.1	1532.4	1509.4
15°	1494.8	1519.9	1544.3	1575.0	1607.0	1620.2	1619.6	1600.0	1575.6	1543.6	1511.5
17.5°	1444.6	1462.1	1475.3	1508.7	1547.8	1581.9	1604.9	1606.3	1582.6	1554.0	1512.2
20°	1407.0	1419.5	1430.7	1449.5	1483.7	1525.5	1568.0	1591.7	1587.5	1556.1	1514.3
22.5°	1372.9	1381.9	1391.0	1404.9	1432.1	1459.3	1508.7	1557.5	1578.4	1552.7	1512.2
25°	1338.7	1348.5	1355.4	1365.2	1386.8	1409.1	1443.9	1504.6	1551.3	1549.9	1508.1
27.5°	1298.3	1311.5	1319.9	1333.1	1347.8	1364.5	1388.2	1445.3	1512.2	1535.9	1496.9
30°	1249.5	1269.0	1281.6	1296.2	1308.7	1323.4	1342.2	1377.0	1460.0	1508.7	1485.1
32.5°	1179.1	1214.0	1241.8	1255.8	1269.7	1282.3	1299.0	1328.3	1395.9	1471.8	1471.8
35°	1128.9	1145.0	1170.1	1210.5	1227.9	1240.4	1255.8	1278.8	1322.0	1427.9	1450.2
37.5°	1089.9	1096.2	1108.7	1148.5	1181.2	1201.4	1216.8	1231.4	1273.9	1368.0	1422.3
40°	1060.7	1058.6	1057.2	1076.0	1122.7	1154.7	1172.2	1186.8	1219.5	1296.2	1385.4
42.5°	1026.5	1024.4	1017.4	1022.3	1045.3	1099.0	1125.5	1141.5	1168.7	1220.9	1345.0
45°	991.0	987.5	984.7	979.8	988.2	1018.1	1072.5	1096.2	1111.5	1158.2	1294.1
47.5°	954.7	949.8	946.4	942.2	937.3	951.2	1002.8	1045.3	1071.8	1101.1	1232.8
50°	903.2	909.4	905.2	900.4	896.2	893.4	915.0	984.7	1017.4	1041.1	1158.2
52.5°	425.8	827.9	862.7	857.9	852.3	847.4	852.3	905.2	964.5	983.3	1068.3
55°	242.5	368.7	767.3	811.2	806.3	799.3	795.1	813.3	901.8	926.9	986.1
57.5°	233.5	234.2	338.7	731.0	758.2	751.9	747.1	751.2	826.5	869.0	914.3
60°	225.8	225.8	225.8	323.4	699.0	701.1	694.8	687.8	720.6	804.2	841.8
62.5°	209.1	213.2	215.3	215.3	319.2	647.4	641.1	639.0	640.4	726.2	769.4
65°	187.5	197.2	201.4	204.2	204.2	335.2	586.1	582.6	577.7	610.5	696.2
67.5°	163.8	173.5	182.6	188.2	188.9	195.1	349.8	524.8	517.8	518.5	618.1
70°	139.4	147.7	157.5	165.9	173.5	177.0	182.6	435.6	458.5	448.8	529.6
72.5°	120.6	124.0	131.0	139.4	148.4	156.8	161.7	173.5	397.9	387.5	402.8
75°	100.4	103.1	108.0	113.6	120.6	130.3	138.7	147.0	211.2	324.7	322.7
77.5°	78.1	82.9	88.5	92.0	95.5	102.4	113.6	122.0	130.3	219.5	258.5
80°	59.9	63.4	66.2	69.7	73.9	78.7	82.9	92.7	102.4	110.1	197.9
82.5°	44.6	46.7	48.8	50.2	51.6	54.4	62.0	65.5	71.8	78.7	93.4
85°	31.4	32.8	34.1	34.8	35.5	36.2	39.0	39.7	46.0	47.4	56.4
87.5°	20.2	20.9	22.3	23.0	23.0	23.7	24.4	24.4	24.4	23.0	27.9
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-LD5-36SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1520.6	1520.6
2.5°	1521.3	1532.4
5°	1519.2	1533.8
7.5°	1513.6	1527.6
10°	1505.3	1522.0
12.5°	1496.2	1512.2
15°	1488.5	1500.4
17.5°	1480.2	1487.1
20°	1469.0	1474.6
22.5°	1457.9	1455.1
25°	1445.3	1439.1
27.5°	1429.3	1417.5
30°	1414.7	1393.8
32.5°	1400.7	1366.6
35°	1381.9	1338.7
37.5°	1362.4	1310.1
40°	1339.4	1277.4
42.5°	1315.0	1244.6
45°	1284.4	1213.3
47.5°	1257.2	1175.6
50°	1219.5	1135.2
52.5°	1173.5	1097.6
55°	1119.2	1051.6
57.5°	1060.7	1003.5
60°	997.9	948.5
62.5°	922.0	891.3
65°	832.8	825.8
67.5°	716.4	753.3
70°	587.5	670.4
72.5°	491.3	582.6
75°	402.8	484.3
77.5°	319.2	379.8
80°	199.3	278.1
82.5°	133.8	182.6
85°	80.8	87.1
87.5°	31.4	32.1
90°	0.0	0.0

(END OF REPORT)