

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-LD5-27SL-RM-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 (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-27SL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

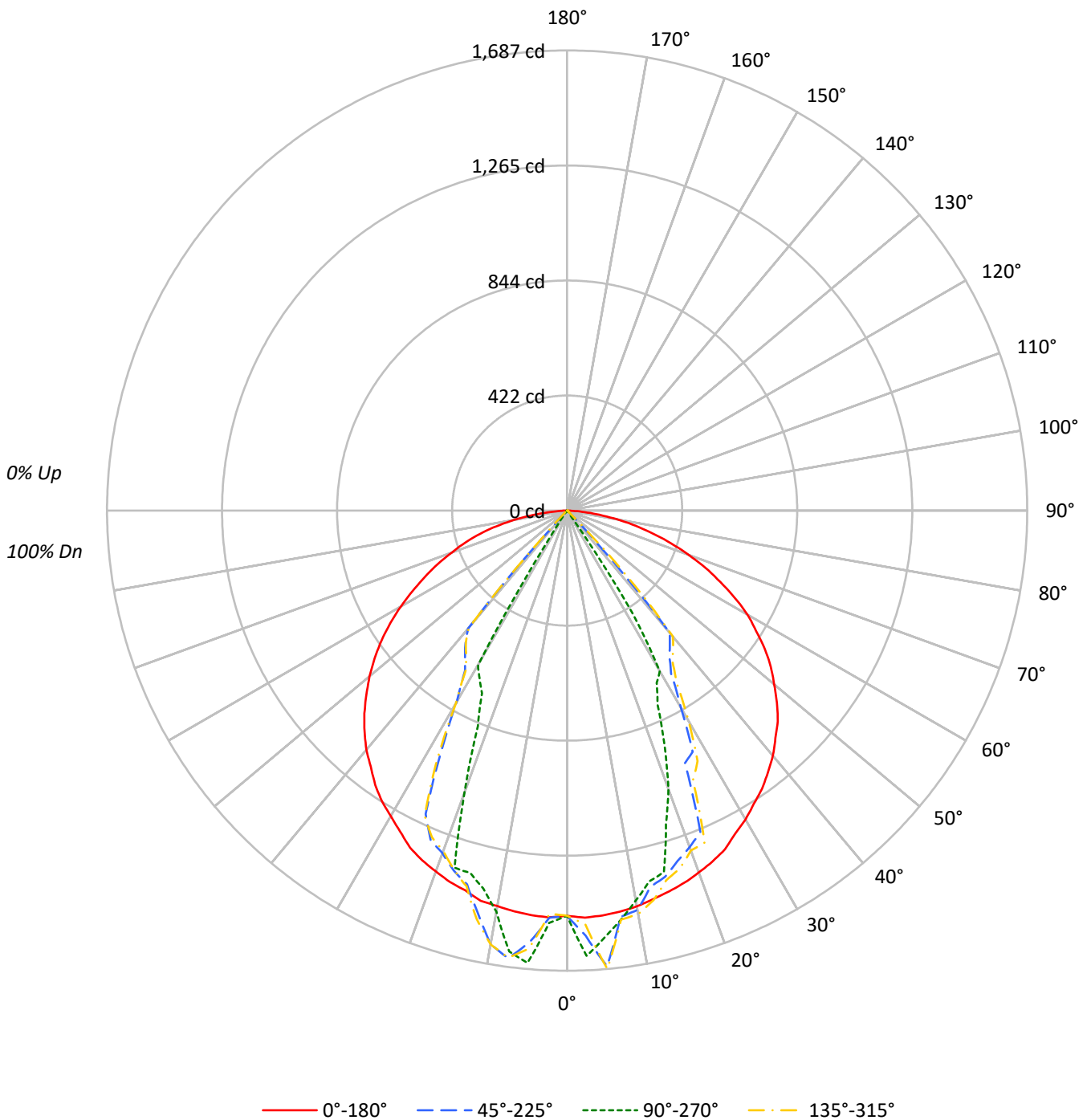
Lumens per Lamp: N/A
Luminaire Lumens: 2112.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L930-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12003	12003	12003	12003
5°	12052	12345	12048	13073
10°	12023	11170	12016	11493
15°	11990	10426	11960	10454
20°	12004	8213	11970	8313
25°	12039	5943	11980	5608
30°	11984	5213	11857	5012
35°	12019	115	11843	139
40°	12061	25	11772	25
45°	12103	15	11648	11
50°	12011	11	11460	11
55°	11940	8	11206	8
60°	11715	9	10798	9
65°	11103	14	10313	10
70°	10301	15	9807	15
75°	9113	17	9261	17
80°	7400	19	7823	19
85°	4352	23	4447	23



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	7.1
10°-20°	406.5	19.2
20°-30°	517.2	24.5
30°-40°	436.9	20.7
40°-50°	285.6	13.5
50°-60°	180.0	8.5
60°-70°	95.8	4.5
70°-80°	34.9	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°	1072.7	50.8
0°-40°	1509.6	71.5
0°-60°	1975.2	93.5
0°-90°	2112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1485	1485	1485	1485	1485	
5°	1490	1572	1489	1664	1490	142
15°	1445	1372	1442	1375	1445	409
25°	1370	783	1363	739	1370	630
35°	1245	15	1227	18	1245	779
45°	1092	2	1051	1	1092	840
55°	885	1	831	1	885	789
65°	620	1	576	1	620	614
75°	326	1	331	1	326	346
85°	64	1	65	1	64	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1493.8	1494.7	1495.1	1496.0	1497.4	1497.8	1498.7	1497.8	1497.8	1497.8	1497.8
5°	1489.8	1491.6	1492.9	1494.7	1497.8	1498.2	1501.8	1502.3	1504.0	1507.6	1510.3
7.5°	1483.1	1484.9	1487.5	1492.0	1496.5	1501.4	1507.6	1514.3	1523.7	1532.6	1543.7
10°	1473.3	1475.5	1478.6	1482.6	1504.5	1507.6	1521.4	1540.6	1545.9	1574.0	1595.0
12.5°	1459.0	1466.6	1474.6	1478.2	1499.1	1532.1	1578.5	1569.1	1558.9	1650.7	1649.4
15°	1445.2	1455.4	1451.4	1480.4	1499.6	1557.1	1537.5	1579.4	1656.0	1637.3	1638.2
17.5°	1430.5	1432.7	1455.0	1479.1	1513.4	1542.8	1566.9	1624.4	1639.6	1640.9	1624.4
20°	1411.8	1422.5	1455.0	1476.8	1534.8	1548.6	1600.8	1630.2	1624.0	1608.8	1580.7
22.5°	1392.6	1425.1	1458.1	1488.9	1529.4	1566.4	1592.3	1606.1	1573.6	1513.8	1481.8
25°	1369.9	1389.0	1432.3	1477.3	1528.1	1549.5	1564.7	1542.4	1500.0	1446.5	1392.6
27.5°	1334.6	1365.4	1420.7	1471.5	1517.4	1543.3	1518.7	1465.3	1397.1	1361.8	1337.3
30°	1307.5	1347.6	1393.0	1442.1	1489.8	1504.9	1442.5	1381.5	1334.6	1299.4	1294.1
32.5°	1274.5	1331.5	1374.8	1421.6	1461.7	1441.6	1381.0	1302.1	1263.3	1249.9	1255.3
35°	1245.0	1288.3	1344.9	1390.8	1419.8	1374.8	1278.9	1229.9	1211.2	1218.7	1208.9
37.5°	1209.8	1266.9	1319.0	1358.7	1348.9	1281.2	1200.0	1168.8	1171.0	1164.8	1146.1
40°	1173.3	1227.7	1282.0	1319.5	1285.2	1181.7	1127.8	1121.1	1122.5	1102.4	1075.7
42.5°	1130.5	1180.0	1234.3	1268.2	1194.2	1113.5	1077.0	1077.9	1066.3	1038.2	1023.9
45°	1092.1	1137.6	1194.2	1197.3	1106.4	1039.1	1028.4	1016.8	991.0	981.6	970.9
47.5°	1043.1	1093.5	1140.3	1123.3	1020.4	978.5	970.4	945.0	932.1	925.0	916.1
50°	991.0	1041.8	1084.6	1036.4	939.2	929.4	903.1	883.1	874.2	866.6	858.6
52.5°	941.5	983.4	1027.1	944.1	876.8	867.5	837.6	826.0	817.1	808.6	806.8
55°	885.3	922.3	952.2	856.3	817.1	795.3	773.9	765.8	757.4	753.4	760.0
57.5°	821.6	863.5	859.0	769.9	752.5	720.8	712.8	707.4	701.2	703.9	648.2
60°	764.1	796.2	774.3	706.6	677.1	655.7	648.6	645.0	648.6	594.2	522.4
62.5°	693.2	729.3	685.2	632.6	601.3	591.1	584.9	589.8	537.6	477.9	460.5
65°	619.6	658.9	593.8	553.2	533.6	524.7	524.2	482.8	431.5	408.3	408.3
67.5°	548.7	589.3	505.5	471.6	464.0	464.9	439.1	376.2	362.0	346.4	301.3
70°	473.4	509.1	417.7	397.2	392.7	389.6	326.8	309.8	292.9	251.4	247.8
72.5°	398.5	415.9	335.7	330.8	329.9	274.2	261.7	232.7	213.1	208.2	205.9
75°	325.9	320.5	265.2	269.7	227.3	207.7	187.7	170.7	168.1	166.3	41.5
77.5°	257.2	230.5	209.1	181.9	162.7	138.2	134.2	131.5	86.5	31.2	25.4
80°	187.2	149.3	139.1	118.1	100.7	96.7	99.0	30.3	24.1	20.1	17.4
82.5°	119.0	95.4	78.0	68.2	66.4	29.0	21.4	17.4	15.2	12.9	10.7
85°	63.7	42.3	39.2	33.0	19.6	13.4	11.1	8.5	7.1	5.8	5.3
87.5°	20.1	16.9	13.8	11.1	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°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1496.9	1497.8	1497.4	1498.7	1498.7	1500.5	1501.8	1503.1	1505.8	1507.2	1517.4
5°	1516.1	1518.3	1525.0	1531.2	1538.8	1541.0	1554.0	1557.1	1572.2	1574.0	1624.0
7.5°	1558.9	1567.3	1583.4	1599.4	1615.5	1625.7	1643.6	1654.7	1666.7	1677.4	1717.1
10°	1610.6	1624.8	1640.4	1656.5	1665.9	1685.5	1696.2	1698.0	1694.8	1677.4	1613.3
12.5°	1661.4	1675.7	1669.0	1672.1	1683.2	1648.5	1653.4	1628.4	1645.8	1559.8	1496.0
15°	1654.3	1653.4	1636.9	1583.4	1592.3	1525.9	1499.1	1478.6	1495.1	1486.2	1476.4
17.5°	1632.9	1592.3	1563.8	1499.6	1472.4	1453.7	1454.1	1454.6	1446.5	1455.0	1430.0
20°	1542.4	1496.9	1454.6	1431.8	1423.8	1410.4	1417.1	1410.4	1410.9	1413.5	1375.2
22.5°	1422.0	1408.2	1383.7	1390.8	1388.1	1400.2	1391.3	1377.4	1381.9	1361.8	1332.9
25°	1373.4	1357.4	1356.5	1359.2	1355.2	1349.8	1341.8	1320.8	1319.5	1313.2	1299.9
27.5°	1324.4	1325.3	1328.0	1319.9	1305.7	1295.0	1282.9	1272.7	1276.7	1269.6	1251.3
30°	1290.5	1290.1	1274.0	1266.9	1240.6	1241.0	1237.9	1231.7	1227.7	1228.1	1216.5
32.5°	1242.4	1228.6	1210.3	1201.4	1199.1	1191.1	1184.9	1186.2	1189.3	1178.2	1190.2
35°	1192.9	1164.4	1161.7	1154.1	1147.0	1141.6	1143.9	1134.9	1134.5	1133.2	1035.1
37.5°	1126.5	1112.6	1111.3	1103.3	1098.4	1097.0	1088.6	1089.9	1093.9	1101.1	882.6
40°	1071.6	1059.2	1056.0	1055.6	1044.9	1044.0	1046.2	1054.7	1060.5	1015.9	841.2
42.5°	1012.8	1013.7	1003.9	997.6	999.0	1003.0	1013.7	984.3	852.8	812.6	769.0
45°	962.4	958.0	952.6	950.8	962.4	954.4	836.7	772.1	756.5	754.7	632.1
47.5°	909.8	908.5	906.3	907.6	841.6	750.2	723.5	715.0	717.7	715.9	543.0
50°	856.8	858.6	858.6	749.8	688.3	673.1	675.3	682.9	635.7	593.3	506.0
52.5°	810.9	797.0	682.9	643.7	629.9	636.6	620.5	561.2	518.4	493.5	468.1
55°	725.7	624.1	598.7	592.4	597.3	538.0	501.5	463.2	452.0	449.3	434.6
57.5°	571.0	550.5	552.8	527.8	471.2	437.7	423.0	417.7	412.8	409.2	35.7
60°	505.1	510.9	467.6	414.1	391.4	386.9	383.4	378.5	377.6	371.3	22.7
62.5°	462.3	406.5	369.1	355.7	350.4	349.0	342.4	340.1	288.9	39.7	16.9
65°	348.6	325.9	318.7	315.6	309.8	309.8	257.2	40.6	33.0	28.5	15.2
67.5°	284.4	282.6	279.1	275.0	187.2	39.2	34.3	29.9	25.9	22.7	13.4
70°	240.7	239.8	218.4	40.1	33.4	29.4	25.9	23.2	21.4	19.2	12.0
72.5°	197.5	40.1	33.9	29.4	25.4	23.2	21.0	18.7	16.9	15.6	9.8
75°	30.8	27.2	24.1	21.8	20.1	17.8	16.0	14.7	14.3	12.5	6.7
77.5°	22.3	19.2	17.4	15.6	13.8	12.5	10.7	9.4	8.5	7.1	4.9
80°	15.6	13.8	12.5	10.3	8.9	7.6	6.7	5.8	5.3	4.5	2.2
82.5°	8.9	7.6	6.7	5.3	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°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1531.7	1537.5	1548.6	1560.2	1547.3	1593.6	1590.1	1605.7	1614.1	1618.2	1627.5
5°	1668.1	1693.9	1702.4	1677.0	1662.3	1647.1	1612.8	1587.0	1590.1	1581.6	1550.8
7.5°	1665.4	1610.1	1535.7	1501.8	1499.1	1495.1	1505.8	1512.1	1513.0	1512.5	1511.6
10°	1524.5	1496.0	1491.1	1486.7	1488.4	1471.9	1464.4	1443.0	1454.6	1448.3	1450.5
12.5°	1481.8	1475.1	1448.8	1412.2	1434.1	1417.6	1408.2	1414.4	1407.3	1400.6	1398.4
15°	1456.3	1413.1	1398.4	1389.5	1383.2	1379.7	1382.8	1375.7	1373.4	1372.1	1375.2
17.5°	1403.7	1386.4	1370.3	1346.7	1347.1	1345.8	1354.7	1368.1	1369.0	1300.3	1238.4
20°	1362.3	1348.0	1327.5	1312.8	1332.9	1297.2	1159.5	1093.9	1083.7	1083.7	1085.5
22.5°	1329.3	1297.6	1299.0	1275.8	1088.1	1049.8	1050.7	1054.7	1036.4	974.0	967.3
25°	1284.3	1279.4	1181.7	1021.3	1022.6	992.7	946.8	882.2	812.2	812.2	800.6
27.5°	1250.4	1146.5	1003.9	997.2	896.9	833.6	794.4	735.1	727.1	719.5	720.4
30°	1221.4	970.0	973.6	833.6	759.6	707.0	703.9	694.1	689.2	687.8	682.9
32.5°	965.5	944.6	814.9	709.7	680.7	672.2	668.2	657.1	656.6	648.2	589.3
35°	905.4	829.1	682.0	653.5	645.0	637.0	630.3	423.0	49.9	20.1	17.4
37.5°	836.7	692.7	630.8	617.8	609.8	450.7	45.0	15.6	11.1	8.0	7.1
40°	709.2	618.7	599.1	584.9	241.2	15.6	9.8	7.6	4.5	4.0	3.6
42.5°	598.2	583.1	562.1	171.2	17.8	7.6	4.9	3.6	3.1	3.1	2.7
45°	559.9	546.5	226.5	16.9	11.1	3.6	3.1	3.1	2.7	1.8	1.8
47.5°	524.2	461.4	20.5	10.7	7.1	3.1	2.7	1.8	1.8	1.8	1.3
50°	486.3	25.4	14.3	8.0	4.5	1.8	1.8	1.8	1.8	1.3	1.3
52.5°	90.9	17.8	11.6	7.1	2.2	1.8	1.8	1.8	1.3	1.3	1.3
55°	21.4	14.3	10.7	6.2	1.8	1.8	1.8	1.3	1.3	1.3	0.9
57.5°	16.0	10.7	8.5	5.8	1.8	1.3	1.3	1.3	1.3	1.3	0.9
60°	13.4	7.6	6.7	5.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9
62.5°	9.4	6.2	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°	5.3	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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1632.0	1633.8	1605.7	1595.9	1604.3	1602.6	1595.0	1566.9	1563.8	1545.0	1517.9
5°	1559.8	1571.8	1557.1	1582.5	1570.5	1582.5	1619.0	1636.0	1663.6	1680.6	1686.8
7.5°	1509.4	1512.1	1512.1	1514.3	1516.5	1517.0	1514.3	1512.5	1504.9	1495.6	1512.5
10°	1448.3	1451.4	1456.8	1455.9	1455.4	1464.8	1467.0	1486.2	1485.3	1488.9	1501.8
12.5°	1416.7	1392.6	1414.4	1408.6	1416.7	1404.2	1427.4	1423.4	1424.7	1435.4	1463.0
15°	1364.1	1371.6	1377.0	1377.0	1380.1	1377.4	1374.8	1393.0	1404.2	1404.6	1402.8
17.5°	1262.9	1205.4	1264.2	1249.1	1369.9	1373.0	1362.7	1354.3	1354.3	1360.9	1375.2
20°	1084.1	1085.5	1085.9	1091.7	1098.8	1098.4	1098.8	1274.5	1357.8	1338.7	1325.7
22.5°	950.4	933.9	964.7	962.4	1000.8	1043.1	1083.7	1079.7	1082.3	1206.3	1317.7
25°	761.8	783.2	765.8	773.4	816.7	867.0	898.2	979.8	1068.5	1062.3	1091.3
27.5°	717.2	711.5	719.5	719.5	725.3	732.0	749.3	795.3	874.2	957.1	1035.5
30°	674.9	679.8	680.7	688.7	693.2	697.6	700.3	717.7	735.5	793.0	889.8
32.5°	506.8	444.4	584.9	622.7	654.8	662.4	667.8	674.9	687.8	696.3	744.9
35°	14.7	14.7	15.6	17.8	22.7	153.3	584.0	643.7	652.2	662.9	671.8
37.5°	7.1	5.3	6.2	6.7	8.0	11.1	16.0	49.9	555.9	628.5	638.3
40°	3.1	3.1	3.1	3.1	3.6	4.5	6.7	11.1	16.9	447.1	603.1
42.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.1	4.0	8.0	19.2	316.5
45°	1.8	1.8	1.3	1.8	1.8	2.2	2.7	2.7	3.6	12.0	21.8
47.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.2	2.7	8.0	11.6
50°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	6.2	8.0
52.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	7.1
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	6.2
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	5.3
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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1520.1	1504.9	1500.0	1489.8	1488.9	1489.8	1487.5	1484.4	1486.2	1483.1	1480.4
5°	1690.4	1649.8	1623.5	1588.3	1539.7	1529.0	1526.3	1511.2	1505.8	1504.0	1496.9
7.5°	1552.6	1626.6	1671.2	1686.4	1629.3	1615.9	1600.3	1587.8	1575.8	1553.1	1539.3
10°	1491.6	1495.1	1537.9	1587.8	1669.0	1680.1	1688.6	1661.4	1653.8	1595.9	1583.4
12.5°	1477.3	1477.7	1482.6	1513.0	1576.7	1583.8	1613.7	1629.7	1649.4	1660.5	1651.6
15°	1412.2	1448.3	1475.1	1477.7	1483.5	1496.0	1504.9	1560.7	1584.3	1647.6	1644.0
17.5°	1381.9	1393.5	1432.3	1463.9	1458.6	1454.1	1461.2	1468.8	1491.6	1554.9	1554.0
20°	1331.5	1368.5	1389.5	1422.5	1452.3	1453.7	1445.6	1441.2	1432.3	1442.5	1451.9
22.5°	1310.1	1315.9	1355.2	1378.3	1412.2	1424.2	1426.0	1426.5	1421.6	1416.2	1413.5
25°	1307.9	1289.6	1309.7	1338.7	1363.6	1376.5	1391.3	1396.2	1394.4	1394.4	1391.7
27.5°	1070.3	1283.8	1273.1	1292.3	1322.6	1331.5	1339.1	1354.3	1363.6	1370.3	1373.4
30°	1019.5	1057.8	1244.6	1247.3	1278.0	1277.1	1285.6	1298.1	1310.1	1325.7	1329.7
32.5°	901.8	995.9	1139.4	1202.3	1234.3	1237.5	1241.9	1245.5	1256.6	1274.0	1289.2
35°	722.6	907.1	976.2	1180.9	1186.6	1192.9	1195.6	1204.0	1207.6	1214.7	1228.1
37.5°	653.9	749.8	936.6	1021.3	1131.8	1137.2	1151.4	1155.0	1160.8	1166.6	1176.8
40°	614.3	640.6	779.7	912.1	1087.7	1091.3	1096.2	1105.1	1105.5	1112.2	1121.6
42.5°	582.6	599.6	640.1	871.0	1056.5	1056.0	1044.4	1050.2	1052.9	1060.0	1073.0
45°	465.4	562.6	588.4	711.5	841.2	901.8	1018.1	999.0	998.5	1001.2	1015.0
47.5°	23.6	529.1	547.4	587.1	794.4	796.6	811.8	939.2	958.9	952.6	954.0
50°	16.0	36.6	510.0	528.2	684.7	740.0	751.1	756.9	830.5	912.5	899.1
52.5°	12.5	21.0	312.5	490.4	556.3	596.9	668.7	709.7	714.1	747.1	859.0
55°	11.1	16.0	33.9	452.5	473.0	481.9	523.8	595.6	653.5	670.9	672.2
57.5°	9.8	14.7	23.2	204.6	430.2	432.0	439.1	464.0	516.2	563.9	617.8
60°	8.9	12.9	18.3	35.2	390.9	395.4	396.7	403.4	409.7	442.2	504.2
62.5°	5.3	10.3	16.0	25.4	309.4	355.3	354.8	359.3	365.1	368.7	381.1
65°	4.5	8.0	13.8	21.4	37.9	47.3	287.1	319.2	322.7	327.6	329.9
67.5°	4.0	7.1	10.3	16.9	28.5	32.5	37.4	46.4	253.2	285.3	289.8
70°	3.6	4.9	8.5	14.3	23.2	25.0	28.1	32.1	37.9	46.8	229.1
72.5°	2.2	3.6	5.8	10.3	17.8	20.1	21.8	24.5	27.2	32.5	37.4
75°	0.9	2.7	4.9	7.6	13.8	15.2	16.5	18.3	20.5	24.1	26.7
77.5°	0.9	2.2	4.0	5.3	8.9	10.3	12.0	13.4	15.2	16.9	19.6
80°	3.1	1.8	2.7	4.0	6.2	6.7	7.6	8.5	9.8	11.1	12.9
82.5°	2.2	2.7	3.1	2.7	3.1	4.0	4.5	5.3	5.8	6.7	7.1
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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1480.4	1479.5	1476.8	1476.8	1476.4	1478.2	1479.5	1480.9	1480.4	1483.1	1480.4
5°	1491.6	1489.3	1485.3	1481.8	1480.4	1481.3	1480.0	1481.3	1479.5	1481.8	1477.7
7.5°	1522.3	1514.7	1499.1	1492.9	1484.9	1484.4	1480.4	1479.5	1476.8	1476.8	1471.9
10°	1576.7	1540.1	1535.7	1517.0	1510.3	1477.7	1484.9	1472.8	1471.5	1465.7	1463.5
12.5°	1621.3	1592.7	1584.3	1567.8	1549.1	1483.1	1497.8	1471.9	1470.6	1459.0	1447.0
15°	1622.2	1638.7	1615.5	1570.0	1566.0	1520.5	1490.7	1481.8	1470.2	1435.4	1441.2
17.5°	1570.0	1607.9	1619.0	1609.2	1580.7	1550.0	1508.1	1490.2	1455.4	1439.8	1429.1
20°	1485.3	1523.7	1571.4	1574.5	1592.3	1570.5	1515.6	1486.7	1444.8	1417.6	1408.6
22.5°	1418.0	1446.1	1500.9	1526.3	1548.2	1555.7	1521.0	1478.2	1426.0	1399.7	1394.4
25°	1382.3	1388.6	1405.1	1434.9	1483.1	1517.9	1522.8	1477.3	1450.1	1392.6	1362.3
27.5°	1369.4	1364.1	1357.4	1372.5	1408.6	1451.0	1479.1	1486.7	1418.9	1364.1	1333.8
30°	1336.4	1339.5	1329.3	1323.9	1347.6	1391.3	1441.2	1453.7	1401.5	1344.9	1310.1
32.5°	1295.9	1301.2	1303.0	1293.6	1288.7	1319.0	1373.0	1402.8	1400.2	1317.7	1278.9
35°	1245.0	1260.2	1264.2	1264.7	1256.6	1251.7	1282.9	1344.9	1368.5	1305.2	1249.1
37.5°	1191.6	1196.0	1217.9	1223.6	1223.6	1208.9	1232.1	1281.6	1314.6	1277.1	1212.5
40°	1124.7	1139.0	1159.5	1169.7	1180.0	1181.3	1168.4	1203.1	1257.5	1248.2	1178.2
42.5°	1076.1	1085.5	1097.9	1111.8	1132.7	1138.1	1124.7	1130.9	1187.5	1212.1	1133.6
45°	1019.5	1032.0	1035.5	1050.7	1072.5	1088.1	1087.7	1074.8	1120.2	1150.5	1101.1
47.5°	961.5	973.6	979.8	987.4	1003.4	1023.5	1034.6	1028.8	1037.8	1097.0	1057.8
50°	901.8	908.5	921.0	929.4	940.1	951.7	978.5	983.8	971.3	1018.6	1010.1
52.5°	845.2	847.4	855.9	864.4	878.6	887.1	908.5	924.5	923.6	937.5	957.1
55°	801.1	791.2	793.0	799.7	809.1	822.0	834.0	859.0	867.5	870.1	901.4
57.5°	625.9	726.6	735.5	735.1	746.2	752.0	763.2	779.7	810.0	803.3	838.1
60°	568.8	580.0	664.2	674.0	678.0	683.4	696.7	711.9	734.2	748.5	763.6
62.5°	433.7	501.5	526.9	601.3	612.9	616.1	625.0	632.1	655.3	687.8	681.6
65°	335.7	364.6	442.2	472.5	535.8	543.8	556.3	563.9	570.6	608.0	609.8
67.5°	290.2	294.7	315.6	374.0	414.1	476.1	483.7	490.4	500.6	527.3	543.8
70°	247.8	253.2	259.0	263.9	316.1	357.1	414.6	416.8	423.5	441.3	478.8
72.5°	46.8	211.7	215.3	218.4	224.2	251.4	306.2	350.8	353.5	362.0	396.3
75°	31.6	37.0	50.8	174.7	180.5	182.3	191.7	247.4	288.4	290.2	305.4
77.5°	22.7	25.4	30.8	36.6	93.2	140.0	142.2	152.5	194.8	225.6	228.2
80°	15.6	17.4	20.5	23.2	28.5	37.4	103.4	106.5	111.9	154.2	162.3
82.5°	8.9	10.3	12.0	14.7	16.9	21.4	27.6	35.7	72.7	77.6	103.0
85°	4.5	4.9	5.8	7.1	8.5	10.3	13.8	16.9	23.2	41.9	43.2
87.5°	2.2	2.2	2.2	2.2	3.6	4.0	4.9	6.2	8.0	12.0	15.6
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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1480.9	1487.1	1492.4	1493.8	1493.8	1494.7	1496.0	1496.9	1497.8	1498.7	1497.8
5°	1478.2	1484.9	1489.3	1490.7	1490.7	1493.3	1495.6	1498.2	1499.6	1499.6	1498.7
7.5°	1471.5	1476.4	1482.2	1485.8	1486.2	1490.7	1494.7	1494.2	1496.0	1496.9	1499.1
10°	1462.6	1462.6	1472.4	1475.1	1477.3	1482.2	1483.5	1486.2	1492.4	1493.3	1499.1
12.5°	1458.1	1453.7	1465.3	1466.6	1474.2	1467.9	1476.0	1478.6	1472.4	1480.9	1469.7
15°	1438.1	1443.4	1441.6	1445.6	1459.0	1451.9	1473.7	1466.6	1482.6	1463.5	1497.4
17.5°	1421.6	1420.7	1427.8	1431.4	1434.1	1449.2	1455.0	1463.0	1469.3	1463.9	1477.3
20°	1409.5	1402.4	1407.8	1411.8	1421.1	1432.7	1436.3	1424.2	1445.2	1480.9	1489.3
22.5°	1386.8	1381.9	1388.1	1388.1	1402.4	1400.6	1414.0	1406.4	1426.0	1467.5	1510.7
25°	1356.0	1356.5	1363.2	1371.2	1373.9	1393.9	1401.1	1410.9	1435.4	1484.9	1511.2
27.5°	1324.8	1322.2	1326.2	1342.7	1356.5	1371.2	1373.4	1406.9	1440.3	1474.2	1497.4
30°	1293.6	1291.0	1293.6	1305.7	1322.2	1332.0	1356.5	1401.1	1432.3	1455.4	1477.3
32.5°	1260.2	1257.5	1263.8	1272.7	1301.7	1303.0	1351.6	1393.5	1418.0	1434.9	1430.9
35°	1224.5	1221.0	1226.8	1240.6	1267.3	1277.1	1328.0	1359.2	1386.8	1394.8	1376.1
37.5°	1181.7	1175.5	1182.6	1201.8	1229.9	1258.4	1300.8	1336.9	1351.6	1330.2	1307.9
40°	1137.2	1132.7	1145.2	1155.0	1188.0	1227.7	1276.2	1301.7	1292.3	1267.8	1243.3
42.5°	1097.5	1088.1	1099.3	1118.0	1155.4	1200.5	1239.7	1254.0	1231.7	1195.6	1167.0
45°	1048.9	1037.8	1051.1	1076.1	1116.2	1167.5	1198.2	1193.3	1155.4	1124.2	1085.0
47.5°	998.1	984.7	998.1	1028.0	1073.0	1127.4	1149.6	1127.4	1079.7	1040.4	1008.8
50°	948.2	932.6	945.5	990.5	1034.6	1076.5	1076.1	1032.9	1004.3	961.5	933.9
52.5°	898.7	876.4	889.3	938.4	982.5	1030.2	995.0	954.8	920.5	883.1	874.2
55°	837.6	813.5	830.9	902.2	936.1	964.2	908.0	872.8	838.9	820.2	809.1
57.5°	779.7	753.4	768.5	852.8	877.7	884.9	833.2	783.2	763.2	756.9	740.9
60°	719.9	690.1	704.3	801.5	818.9	789.9	739.1	700.3	696.3	683.8	671.3
62.5°	662.9	629.9	638.8	737.8	745.8	693.2	646.4	636.1	626.3	613.8	607.1
65°	597.3	563.0	575.5	670.0	662.4	594.7	568.4	566.1	553.2	543.0	552.8
67.5°	537.2	496.6	514.0	596.0	561.7	506.4	495.7	490.4	480.1	485.9	382.9
70°	471.2	427.1	450.7	516.2	465.4	428.8	424.8	416.8	417.2	331.7	279.5
72.5°	397.6	359.3	393.6	428.8	368.2	357.5	351.7	350.8	283.1	230.0	217.1
75°	333.0	294.2	331.2	344.6	293.3	286.2	285.7	236.3	185.9	177.4	173.4
77.5°	259.9	230.0	265.2	245.2	225.1	217.1	194.8	146.2	140.0	134.2	50.4
80°	175.2	177.4	197.9	168.9	160.5	136.9	107.9	103.4	89.2	35.7	28.1
82.5°	106.5	133.7	126.2	105.6	103.4	74.4	68.2	34.8	25.9	20.5	17.8
85°	55.3	67.8	65.1	57.5	42.8	38.3	21.4	16.5	13.4	10.3	8.5
87.5°	18.7	25.0	24.1	19.2	14.7	11.6	7.6	6.2	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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1496.9	1496.9	1496.0	1496.9	1497.4	1496.5	1496.5	1497.4	1497.8	1498.2	1500.5
5°	1499.1	1500.0	1501.4	1504.0	1504.5	1509.8	1512.1	1513.4	1514.7	1515.2	1512.1
7.5°	1504.0	1507.2	1509.8	1509.4	1506.3	1497.8	1495.1	1492.9	1496.9	1507.2	1519.2
10°	1508.5	1494.2	1467.5	1504.0	1492.9	1503.1	1533.5	1540.1	1560.7	1589.6	1598.1
12.5°	1477.7	1517.0	1525.4	1484.4	1560.2	1532.1	1565.6	1595.0	1603.4	1632.9	1615.0
15°	1510.7	1529.9	1542.8	1583.8	1579.4	1603.4	1612.8	1607.0	1608.3	1615.9	1636.0
17.5°	1510.3	1548.6	1557.1	1584.7	1603.4	1603.9	1601.2	1598.5	1605.7	1611.5	1599.4
20°	1536.1	1548.6	1565.1	1576.3	1579.8	1584.3	1592.7	1586.1	1572.7	1559.8	1554.4
22.5°	1523.2	1551.3	1565.6	1567.3	1565.1	1551.3	1538.8	1520.1	1513.8	1507.2	1509.4
25°	1525.9	1538.8	1537.0	1529.9	1520.5	1494.7	1488.4	1480.4	1468.4	1439.4	1413.1
27.5°	1506.7	1500.0	1492.0	1474.6	1457.7	1443.9	1428.3	1402.4	1381.0	1349.8	1338.2
30°	1474.6	1447.9	1428.3	1418.0	1401.5	1378.3	1354.7	1323.1	1295.9	1289.6	1283.8
32.5°	1413.1	1386.8	1370.8	1345.8	1317.7	1290.1	1262.9	1250.4	1244.6	1245.5	1240.1
35°	1350.2	1327.1	1303.0	1265.6	1244.6	1217.0	1207.2	1204.5	1199.1	1193.3	1187.1
37.5°	1283.4	1256.2	1220.1	1197.8	1176.8	1165.7	1160.8	1156.8	1147.4	1137.2	1130.0
40°	1218.7	1169.7	1149.6	1127.8	1121.6	1116.7	1109.5	1099.7	1086.8	1085.0	1081.9
42.5°	1132.3	1097.0	1079.7	1075.2	1067.6	1059.2	1052.9	1042.2	1036.9	1040.4	1043.1
45°	1050.2	1032.4	1026.6	1021.3	1007.0	995.0	991.0	987.4	991.8	1011.5	964.7
47.5°	983.8	976.7	969.6	960.6	947.3	938.4	942.4	945.9	949.9	806.0	735.5
50°	926.3	916.5	905.4	895.6	887.5	886.6	907.6	844.7	707.4	703.9	632.6
52.5°	863.5	848.8	842.1	836.3	839.8	853.2	706.1	655.3	628.5	546.1	509.5
55°	795.7	782.8	782.8	788.1	769.0	623.2	615.6	532.3	481.9	467.6	461.8
57.5°	727.9	726.6	734.2	671.3	565.7	542.5	456.0	437.7	429.7	427.9	418.6
60°	666.0	678.5	567.9	522.4	454.2	409.7	397.2	395.0	386.5	383.4	374.9
62.5°	616.5	511.3	476.1	388.7	366.0	360.2	353.5	350.4	342.8	302.7	88.7
65°	445.3	420.8	341.5	326.8	325.0	316.5	313.8	282.2	66.4	44.6	37.9
67.5°	336.1	298.2	288.0	285.3	276.8	259.9	77.1	44.1	37.9	33.0	29.0
70°	258.1	251.4	243.8	237.6	70.0	43.7	37.9	32.1	27.6	24.5	22.3
72.5°	211.3	206.8	120.4	45.9	37.4	31.6	28.1	24.5	21.4	19.6	17.8
75°	165.4	45.9	37.9	31.6	27.2	23.2	20.5	18.3	16.5	15.2	13.8
77.5°	37.4	30.3	25.9	21.8	19.6	17.4	15.6	13.4	12.0	10.7	8.9
80°	23.2	20.1	16.9	15.6	13.4	11.1	9.8	8.9	7.1	6.7	5.8
82.5°	15.2	12.0	10.7	8.9	7.1	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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1501.4	1509.4	1517.0	1514.7	1506.7	1494.2	1490.7	1485.8	1489.3	1496.9	1500.0
5°	1512.1	1507.6	1523.7	1547.3	1585.6	1589.2	1615.9	1622.2	1643.6	1656.9	1656.5
7.5°	1527.2	1590.5	1616.8	1645.3	1658.3	1655.2	1659.2	1656.0	1651.1	1648.9	1646.2
10°	1604.3	1652.5	1662.3	1662.3	1642.2	1615.0	1603.4	1583.4	1543.3	1544.2	1537.5
12.5°	1649.4	1666.3	1643.1	1623.5	1542.8	1511.6	1477.7	1461.7	1452.3	1438.1	1443.4
15°	1625.7	1601.7	1587.8	1524.5	1475.1	1418.9	1419.8	1410.0	1399.7	1400.6	1393.9
17.5°	1591.0	1571.8	1473.7	1430.0	1406.0	1384.1	1380.1	1367.2	1360.5	1358.3	1357.8
20°	1543.3	1474.2	1401.1	1390.4	1361.4	1336.4	1332.4	1336.4	1356.9	1320.4	1196.5
22.5°	1487.5	1388.1	1366.7	1336.4	1316.8	1307.0	1331.5	1220.1	1051.6	1072.1	1050.2
25°	1393.0	1349.8	1313.2	1290.1	1287.8	1227.7	1023.0	1001.7	893.3	835.4	770.3
27.5°	1323.9	1305.2	1266.9	1262.9	1233.9	1003.9	897.3	779.7	736.4	729.7	715.5
30°	1282.0	1255.3	1232.1	1130.9	984.7	808.2	719.9	703.4	695.9	687.8	675.3
32.5°	1231.7	1206.3	1217.4	950.8	785.0	695.9	678.0	666.0	652.2	646.8	601.8
35°	1180.4	1168.8	951.3	799.3	674.9	653.5	640.1	627.6	499.3	120.8	41.0
37.5°	1125.6	1122.9	855.0	663.3	632.1	612.0	574.2	118.6	28.1	19.2	14.3
40°	1082.8	855.4	675.8	621.9	596.4	564.8	79.3	19.6	12.5	7.6	4.9
42.5°	1054.3	769.4	604.9	583.5	528.2	58.4	20.1	8.5	4.9	4.0	3.1
45°	812.6	607.6	565.2	543.0	66.9	20.1	11.6	4.0	3.1	2.7	1.8
47.5°	749.8	551.9	526.9	118.6	22.3	10.7	8.0	2.7	1.8	1.8	1.8
50°	567.9	510.0	419.5	29.0	14.3	7.6	5.8	1.8	1.8	1.8	1.3
52.5°	497.9	470.7	45.0	19.2	11.1	5.8	3.6	1.3	1.3	1.3	1.3
55°	455.1	298.7	26.7	14.7	9.4	5.3	2.2	1.3	1.3	1.3	0.9
57.5°	416.4	40.1	19.6	12.5	8.5	4.9	1.3	1.3	1.3	1.3	0.9
60°	353.1	29.0	16.0	11.1	8.0	4.5	1.3	1.3	1.3	1.3	1.3
62.5°	45.9	22.7	13.8	9.8	5.8	3.6	0.9	1.3	1.3	1.3	1.3
65°	33.4	17.8	12.5	6.7	3.6	1.3	0.9	1.3	1.3	1.3	1.3
67.5°	25.9	14.7	9.4	5.8	3.1	0.9	0.9	1.3	1.3	1.3	1.3
70°	20.5	12.5	7.6	4.9	2.7	0.9	0.9	1.3	1.3	1.3	1.3
72.5°	16.0	8.9	5.3	2.7	1.8	0.9	0.9	1.3	1.3	1.3	1.3
75°	12.0	7.1	4.0	2.2	0.9	0.9	0.9	1.3	1.3	1.3	1.3
77.5°	8.0	4.5	3.1	1.8	1.8	1.8	2.2	2.2	1.3	1.3	1.3
80°	5.3	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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1496.0	1497.4	1493.8	1513.0	1503.1	1504.0	1508.1	1497.8	1500.0	1492.9	1488.0
5°	1658.3	1661.0	1663.6	1664.5	1666.3	1668.5	1665.9	1664.5	1661.8	1652.9	1643.6
7.5°	1632.9	1629.7	1628.4	1630.2	1633.3	1634.7	1632.4	1635.5	1647.1	1652.0	1655.2
10°	1499.1	1484.9	1494.7	1493.3	1482.2	1519.6	1509.4	1515.2	1519.2	1560.2	1585.2
12.5°	1435.4	1444.3	1427.4	1418.9	1430.0	1437.6	1445.2	1429.1	1451.4	1441.2	1474.2
15°	1381.9	1376.5	1374.8	1375.2	1373.0	1383.7	1386.4	1389.9	1393.0	1406.9	1412.2
17.5°	1357.8	1366.7	1370.3	1373.0	1368.5	1363.6	1358.7	1351.6	1353.8	1350.2	1360.5
20°	1113.1	1083.2	1081.4	1098.8	1079.7	1090.4	1116.2	1289.2	1283.4	1350.7	1328.0
22.5°	929.0	900.9	876.8	855.9	885.8	898.2	946.4	1000.8	1089.0	1075.2	1171.0
25°	758.7	748.5	742.2	739.1	741.3	740.4	751.1	776.5	816.7	911.2	1033.3
27.5°	709.7	704.8	702.5	695.4	700.8	699.0	707.4	712.8	724.8	734.2	773.9
30°	670.9	665.1	661.1	653.5	658.9	659.3	662.0	675.8	680.7	688.7	701.2
32.5°	245.2	144.4	135.5	128.8	140.9	183.7	322.3	563.5	642.8	649.0	663.3
35°	24.1	20.1	17.8	17.8	18.3	20.1	26.7	70.4	128.8	497.9	623.2
37.5°	9.4	8.0	6.7	6.2	6.7	7.6	10.3	13.4	18.3	37.9	168.9
40°	4.0	3.6	3.1	3.1	3.1	3.1	3.6	4.5	6.7	12.5	19.6
42.5°	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.1	4.0	8.0
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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1479.5	1479.1	1488.4	1495.6	1492.9	1495.6	1498.7	1499.1	1500.0	1496.5	1495.1
5°	1625.7	1611.9	1585.2	1566.0	1543.7	1503.1	1483.1	1485.3	1485.8	1484.4	1486.2
7.5°	1653.8	1652.5	1643.1	1639.1	1624.0	1595.0	1548.6	1540.6	1521.0	1508.5	1498.2
10°	1583.4	1615.5	1624.0	1638.2	1647.1	1641.8	1602.6	1596.8	1584.3	1570.0	1573.1
12.5°	1507.2	1533.5	1534.8	1612.4	1629.7	1631.5	1616.4	1624.4	1626.2	1594.1	1575.4
15°	1413.5	1426.0	1452.3	1524.5	1577.1	1610.1	1619.9	1624.4	1602.6	1601.2	1593.6
17.5°	1372.5	1380.6	1392.6	1433.2	1513.0	1561.5	1603.0	1599.9	1608.3	1602.1	1582.9
20°	1320.8	1327.5	1348.9	1369.4	1408.6	1473.3	1550.8	1556.6	1567.8	1566.4	1571.8
22.5°	1319.9	1296.3	1299.9	1315.9	1356.9	1414.9	1497.4	1516.5	1523.7	1528.6	1534.4
25°	1047.1	1234.8	1269.1	1279.4	1306.1	1340.0	1437.2	1444.3	1457.7	1479.5	1495.6
27.5°	907.1	1034.6	1171.9	1243.3	1260.2	1288.3	1346.2	1356.9	1402.4	1407.8	1432.7
30°	715.9	814.4	1019.5	1191.1	1219.2	1238.8	1279.8	1301.2	1320.8	1342.2	1368.5
32.5°	673.6	689.2	802.8	985.6	1204.0	1189.3	1219.6	1232.6	1254.0	1272.7	1291.9
35°	634.8	645.5	669.6	807.3	980.7	1148.8	1169.3	1177.7	1189.8	1204.0	1217.9
37.5°	594.2	610.3	626.8	663.8	907.1	1116.7	1116.2	1126.0	1133.2	1145.2	1156.8
40°	107.9	560.3	587.1	611.2	703.4	890.7	1066.3	1070.7	1075.7	1083.2	1095.3
42.5°	17.4	93.6	550.1	573.3	599.6	797.5	1043.6	1025.3	1022.2	1027.5	1038.2
45°	8.9	22.7	110.6	535.4	559.0	636.1	853.2	993.6	990.5	980.3	982.5
47.5°	6.7	14.3	27.2	185.0	523.3	546.1	787.2	778.8	838.1	951.7	934.3
50°	5.8	9.8	16.0	37.9	462.3	502.8	606.3	708.3	739.5	743.5	880.0
52.5°	5.3	6.7	11.6	24.5	97.2	464.9	493.0	528.7	581.3	694.1	691.4
55°	4.9	6.2	9.8	16.5	33.9	419.0	448.0	454.7	465.8	519.8	591.1
57.5°	2.7	5.8	9.4	14.3	25.4	76.7	406.5	411.9	420.8	423.0	448.4
60°	1.3	5.3	8.5	12.5	18.7	35.7	365.5	371.8	377.1	378.0	386.0
62.5°	0.9	4.9	7.1	11.6	15.6	25.4	86.5	176.5	335.7	335.7	345.0
65°	0.9	3.6	4.5	7.6	14.3	21.0	36.6	42.3	82.5	202.8	302.7
67.5°	0.9	1.3	4.0	6.2	10.7	16.0	26.7	31.2	37.4	42.8	79.3
70°	0.9	0.9	3.6	4.0	6.7	12.0	19.2	21.8	25.4	29.0	33.4
72.5°	0.9	0.9	3.1	3.1	4.5	8.0	14.7	16.0	18.3	20.5	23.6
75°	2.2	1.8	2.7	2.7	3.1	6.2	11.1	12.5	13.4	15.2	17.4
77.5°	2.2	2.2	2.2	2.2	2.2	4.0	7.1	8.0	9.4	10.3	12.0
80°	1.8	1.8	1.8	2.2	2.2	2.7	4.5	4.9	5.3	6.7	7.1
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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1494.7	1492.0	1489.8	1491.1	1487.1	1485.3	1486.7	1487.1	1488.0	1490.2	1490.7
5°	1490.7	1489.8	1493.8	1496.0	1495.1	1496.0	1496.0	1494.2	1491.6	1493.3	1489.3
7.5°	1488.0	1482.2	1477.7	1478.6	1474.2	1479.5	1484.4	1491.6	1493.8	1493.8	1489.3
10°	1533.9	1527.7	1502.7	1485.8	1474.6	1464.8	1488.0	1464.4	1475.5	1433.2	1481.8
12.5°	1571.8	1580.3	1569.1	1522.8	1514.7	1485.3	1502.3	1473.3	1464.8	1416.2	1431.8
15°	1587.0	1570.9	1567.3	1554.4	1537.0	1528.6	1483.1	1478.2	1464.4	1469.7	1449.2
17.5°	1573.6	1581.6	1570.9	1562.4	1544.6	1524.5	1497.4	1473.3	1454.1	1411.3	1447.4
20°	1560.7	1571.4	1539.3	1544.6	1546.4	1523.2	1508.9	1488.9	1464.8	1424.7	1393.5
22.5°	1539.3	1531.7	1534.4	1526.3	1519.6	1522.8	1503.1	1489.3	1448.8	1430.5	1388.1
25°	1504.5	1501.8	1508.9	1508.1	1492.0	1486.7	1476.8	1462.1	1446.1	1416.7	1381.9
27.5°	1447.9	1461.7	1474.2	1480.0	1471.5	1457.2	1451.9	1443.4	1432.3	1402.4	1376.5
30°	1388.1	1403.7	1418.0	1430.5	1438.1	1431.8	1426.9	1422.0	1405.1	1385.5	1356.5
32.5°	1319.9	1340.4	1360.1	1375.2	1391.7	1396.6	1393.0	1389.0	1374.8	1356.9	1333.8
35°	1241.0	1269.1	1297.6	1324.8	1332.0	1343.6	1355.2	1348.5	1340.9	1323.1	1301.7
37.5°	1174.2	1194.2	1214.7	1249.1	1274.0	1288.7	1309.2	1311.9	1299.0	1290.5	1262.4
40°	1105.1	1123.3	1153.2	1173.3	1207.6	1224.5	1246.4	1256.2	1253.1	1248.2	1223.6
42.5°	1050.7	1059.6	1079.2	1097.0	1130.9	1165.7	1184.9	1195.6	1206.7	1202.7	1190.2
45°	992.7	1000.8	1007.4	1023.0	1056.0	1086.8	1110.4	1126.5	1146.5	1155.9	1140.7
47.5°	935.2	937.5	945.5	958.4	978.0	1001.7	1041.3	1065.4	1084.1	1102.4	1092.6
50°	891.1	883.1	884.4	892.4	908.5	931.7	960.2	994.1	1015.5	1037.8	1040.0
52.5°	778.8	843.8	828.2	832.7	841.2	852.3	882.2	915.6	941.9	961.1	980.3
55°	653.5	666.4	791.7	773.9	779.2	789.0	802.8	836.3	861.7	888.4	915.2
57.5°	506.8	603.1	608.0	723.9	721.3	722.2	733.7	752.9	778.3	811.8	834.5
60°	394.1	434.6	513.5	553.7	655.3	658.9	665.5	676.7	698.5	730.2	766.3
62.5°	347.7	353.1	381.1	441.3	507.3	587.1	601.3	603.1	612.9	644.6	686.5
65°	305.4	308.9	317.4	323.6	378.9	456.0	524.7	535.8	542.1	560.8	596.4
67.5°	210.4	266.1	273.7	278.2	283.5	319.2	404.3	460.9	468.1	484.6	515.8
70°	40.6	84.3	230.5	235.4	238.0	246.1	259.9	349.9	397.2	412.8	427.1
72.5°	27.6	32.5	39.2	92.7	196.1	200.6	203.7	215.3	295.1	340.6	348.1
75°	20.1	22.3	26.3	32.5	40.1	130.6	161.8	167.6	173.4	239.4	277.7
77.5°	14.3	16.0	17.8	21.0	24.5	31.6	45.5	125.3	131.1	134.2	189.5
80°	8.0	9.8	12.0	13.8	15.6	17.8	23.2	29.0	64.6	94.5	99.4
82.5°	4.5	5.3	6.2	7.6	8.5	10.7	12.9	15.6	20.5	30.3	64.2
85°	2.2	2.2	2.2	3.1	3.6	4.9	5.8	6.7	9.4	12.9	17.8
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-LD5-27SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1491.1	1489.8	1489.8	1495.1	1493.8
5°	1488.4	1487.1	1486.7	1492.4	1489.8
7.5°	1486.2	1481.3	1480.0	1485.3	1483.1
10°	1477.3	1473.7	1476.0	1474.2	1473.3
12.5°	1462.1	1459.9	1450.5	1451.4	1459.0
15°	1434.9	1443.9	1427.8	1442.1	1445.2
17.5°	1385.0	1405.1	1420.7	1429.1	1430.5
20°	1407.3	1414.0	1406.0	1406.4	1411.8
22.5°	1378.3	1381.5	1383.7	1381.0	1392.6
25°	1332.0	1319.9	1345.8	1351.1	1369.9
27.5°	1317.7	1307.9	1319.9	1319.0	1334.6
30°	1306.1	1274.5	1279.8	1288.3	1307.5
32.5°	1289.6	1239.7	1234.3	1253.1	1274.5
35°	1260.6	1213.4	1200.9	1212.9	1245.0
37.5°	1236.1	1176.8	1151.9	1167.9	1209.8
40°	1199.6	1148.3	1109.5	1123.8	1173.3
42.5°	1155.9	1123.8	1064.1	1073.9	1130.5
45°	1111.8	1083.2	1019.9	1024.8	1092.1
47.5°	1066.7	1040.4	974.0	974.9	1043.1
50°	1022.6	987.8	933.0	917.4	991.0
52.5°	965.1	933.0	891.5	866.1	941.5
55°	910.7	874.6	844.3	805.1	885.3
57.5°	857.7	817.5	797.0	746.7	821.6
60°	785.0	765.8	735.5	687.4	764.1
62.5°	710.6	704.3	673.6	623.6	693.2
65°	623.6	638.3	606.7	563.9	619.6
67.5°	541.6	567.9	533.1	506.8	548.7
70°	454.2	484.6	464.9	455.6	473.4
72.5°	368.2	397.6	399.4	392.7	398.5
75°	284.4	316.9	334.8	324.5	325.9
77.5°	215.8	231.4	251.0	259.0	257.2
80°	133.3	160.5	176.5	193.0	187.2
82.5°	67.3	90.0	109.7	127.5	119.0
85°	28.1	36.1	50.4	66.4	63.7
87.5°	8.5	14.3	15.2	21.4	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)