

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213737

Luminaire Tested: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

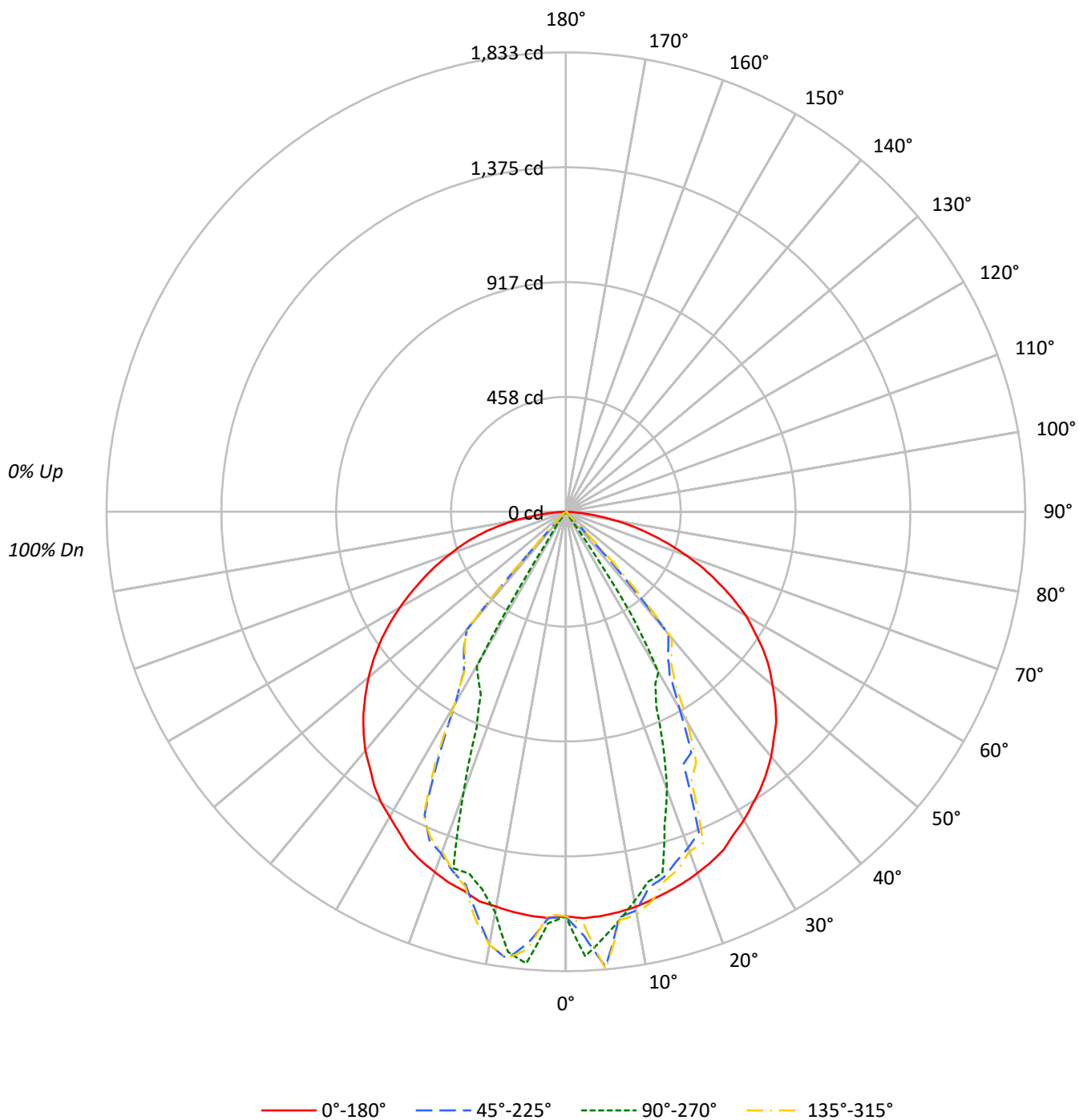
Lumens per Lamp: N/A
Luminaire Lumens: 2295.1 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 24 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
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°	13043	13043	13043	13043
5°	13097	13415	13092	14205
10°	13064	12139	13057	12489
15°	13029	11330	12997	11360
20°	13044	8924	13007	9034
25°	13082	6458	13018	6094
30°	13022	5665	12884	5446
35°	13061	125	12870	152
40°	13105	27	12792	27
45°	13152	16	12658	12
50°	13051	13	12453	13
55°	12974	9	12177	9
60°	12730	10	11734	10
65°	12066	16	11207	11
70°	11193	17	10655	17
75°	9901	20	10063	20
80°	8041	22	8503	22
85°	4734	26	4830	26

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 14201 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	7.1
10°-20°	441.7	19.2
20°-30°	562.0	24.5
30°-40°	474.8	20.7
40°-50°	310.4	13.5
50°-60°	195.6	8.5
60°-70°	104.1	4.5
70°-80°	38.0	1.7
80°-90°	6.5	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°	1165.7	50.8
0°-40°	1640.4	71.5
0°-60°	2146.4	93.5
0°-90°	2295.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2295.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1614	1614	1614	1614	1614	
5°	1619	1708	1618	1809	1619	154
15°	1570	1490	1566	1494	1570	444
25°	1489	851	1481	803	1489	685
35°	1353	16	1333	19	1353	846
45°	1187	2	1142	2	1187	913
55°	962	1	903	1	962	857
65°	673	2	625	1	673	667
75°	354	2	360	2	354	376
85°	69	2	71	2	69	88
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°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1623.2	1624.2	1624.7	1625.6	1627.1	1627.6	1628.5	1627.6	1627.6	1627.6	1627.6
5°	1618.9	1620.8	1622.3	1624.2	1627.6	1628.1	1631.9	1632.4	1634.4	1638.2	1641.1
7.5°	1611.6	1613.5	1616.4	1621.3	1626.1	1631.5	1638.2	1645.5	1655.7	1665.4	1677.5
10°	1600.9	1603.4	1606.7	1611.1	1634.8	1638.2	1653.3	1674.1	1679.9	1710.4	1733.2
12.5°	1585.4	1593.7	1602.4	1606.3	1629.0	1664.9	1715.3	1705.1	1693.9	1793.7	1792.3
15°	1570.4	1581.6	1577.2	1608.7	1629.5	1692.0	1670.7	1716.2	1799.5	1779.2	1780.2
17.5°	1554.4	1556.9	1581.1	1607.2	1644.5	1676.5	1702.7	1765.1	1781.6	1783.1	1765.1
20°	1534.1	1545.7	1581.1	1604.8	1667.8	1682.8	1739.5	1771.4	1764.7	1748.2	1717.7
22.5°	1513.3	1548.6	1584.5	1617.9	1662.0	1702.2	1730.3	1745.3	1709.9	1645.0	1610.1
25°	1488.6	1509.4	1556.4	1605.3	1660.5	1683.8	1700.2	1676.0	1630.0	1571.9	1513.3
27.5°	1450.3	1483.7	1543.8	1599.0	1648.9	1677.0	1650.3	1592.2	1518.1	1479.8	1453.2
30°	1420.7	1464.3	1513.7	1567.0	1618.9	1635.3	1567.5	1501.2	1450.3	1412.0	1406.2
32.5°	1384.9	1446.9	1493.9	1544.7	1588.3	1566.5	1500.7	1414.9	1372.8	1358.3	1364.1
35°	1352.9	1399.9	1461.4	1511.3	1542.8	1493.9	1389.7	1336.5	1316.1	1324.3	1313.7
37.5°	1314.7	1376.7	1433.3	1476.4	1465.8	1392.2	1304.0	1270.1	1272.5	1265.7	1245.4
40°	1274.9	1334.0	1393.1	1433.8	1396.5	1284.1	1225.5	1218.3	1219.7	1197.9	1168.9
42.5°	1228.4	1282.2	1341.3	1378.1	1297.7	1210.0	1170.3	1171.3	1158.7	1128.2	1112.7
45°	1186.8	1236.2	1297.7	1301.1	1202.3	1129.1	1117.5	1104.9	1076.8	1066.6	1055.0
47.5°	1133.5	1188.2	1239.1	1220.7	1108.8	1063.3	1054.5	1026.9	1012.9	1005.1	995.4
50°	1076.8	1132.0	1178.5	1126.2	1020.6	1010.0	981.4	959.6	949.9	941.7	933.0
52.5°	1023.0	1068.6	1116.1	1026.0	952.8	942.6	910.2	897.6	887.9	878.7	876.8
55°	962.0	1002.2	1034.7	930.5	887.9	864.2	840.9	832.2	823.0	818.6	825.9
57.5°	892.7	938.3	933.4	836.6	817.7	783.3	774.6	768.7	762.0	764.9	704.3
60°	830.3	865.1	841.4	767.8	735.8	712.6	704.8	700.9	704.8	645.7	567.7
62.5°	753.2	792.5	744.5	687.4	653.5	642.3	635.5	640.9	584.2	519.3	500.4
65°	673.3	715.9	645.2	601.1	579.8	570.1	569.7	524.6	468.9	443.7	443.7
67.5°	596.3	640.4	549.3	512.5	504.3	505.2	477.1	408.8	393.3	376.4	327.5
70°	514.4	553.2	453.9	431.6	426.8	423.4	355.1	336.7	318.2	273.2	269.3
72.5°	433.1	451.9	364.8	359.4	358.5	297.9	284.3	252.9	231.5	226.2	223.8
75°	354.1	348.3	288.2	293.1	247.0	225.7	203.9	185.5	182.6	180.7	45.0
77.5°	279.5	250.4	227.2	197.6	176.8	150.2	145.8	142.9	94.0	33.9	27.6
80°	203.4	162.3	151.1	128.4	109.5	105.1	107.5	32.9	26.2	21.8	18.9
82.5°	129.3	103.7	84.8	74.1	72.2	31.5	23.3	18.9	16.5	14.0	11.6
85°	69.3	46.0	42.6	35.8	21.3	14.5	12.1	9.2	7.8	6.3	5.8
87.5°	21.8	18.4	15.0	12.1	7.3	4.8	3.9	3.4	2.9	2.4	2.4
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°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1626.6	1627.6	1627.1	1628.5	1628.5	1630.5	1631.9	1633.4	1636.3	1637.8	1648.9
5°	1647.4	1649.9	1657.1	1663.9	1672.1	1674.6	1688.6	1692.0	1708.5	1710.4	1764.7
7.5°	1693.9	1703.1	1720.6	1738.0	1755.5	1766.6	1786.0	1798.1	1811.2	1822.8	1865.9
10°	1750.1	1765.6	1782.6	1800.0	1810.2	1831.5	1843.1	1845.1	1841.7	1822.8	1753.0
12.5°	1805.4	1820.9	1813.6	1817.0	1829.1	1791.3	1796.6	1769.5	1788.4	1694.9	1625.6
15°	1797.6	1796.6	1778.7	1720.6	1730.3	1658.1	1629.0	1606.7	1624.7	1615.0	1604.3
17.5°	1774.4	1730.3	1699.3	1629.5	1600.0	1579.6	1580.1	1580.6	1571.9	1581.1	1554.0
20°	1676.0	1626.6	1580.6	1555.9	1547.2	1532.6	1539.9	1532.6	1533.1	1536.0	1494.4
22.5°	1545.2	1530.2	1503.6	1511.3	1508.4	1521.5	1511.8	1496.8	1501.6	1479.8	1448.4
25°	1492.4	1475.0	1474.0	1476.9	1472.6	1466.8	1458.0	1435.3	1433.8	1427.0	1412.5
27.5°	1439.1	1440.1	1443.0	1434.3	1418.8	1407.2	1394.1	1383.0	1387.3	1379.6	1359.7
30°	1402.3	1401.8	1384.4	1376.7	1348.1	1348.6	1345.2	1338.4	1334.0	1334.5	1321.9
32.5°	1350.0	1335.0	1315.1	1305.5	1303.0	1294.3	1287.5	1289.0	1292.4	1280.3	1293.3
35°	1296.3	1265.2	1262.3	1254.1	1246.4	1240.5	1243.0	1233.3	1232.8	1231.3	1124.8
37.5°	1224.1	1209.1	1207.6	1198.9	1193.6	1192.1	1182.9	1184.4	1188.7	1196.5	959.1
40°	1164.5	1150.9	1147.5	1147.1	1135.4	1134.5	1136.9	1146.1	1152.4	1103.9	914.1
42.5°	1100.6	1101.5	1090.9	1084.1	1085.5	1089.9	1101.5	1069.6	926.7	883.1	835.6
45°	1045.8	1041.0	1035.2	1033.2	1045.8	1037.1	909.2	839.0	822.0	820.1	686.9
47.5°	988.7	987.2	984.8	986.2	914.5	815.2	786.2	777.0	779.9	777.9	590.0
50°	931.0	933.0	933.0	814.8	747.9	731.4	733.9	742.1	690.8	644.7	549.8
52.5°	881.1	866.1	742.1	699.5	684.5	691.7	674.3	609.9	563.4	536.2	508.6
55°	788.6	678.2	650.5	643.8	649.1	584.7	544.9	503.3	491.2	488.3	472.3
57.5°	620.5	598.2	600.7	573.5	512.0	475.7	459.7	453.9	448.6	444.7	38.8
60°	548.8	555.1	508.1	450.0	425.3	420.5	416.6	411.3	410.3	403.5	24.7
62.5°	502.3	441.8	401.1	386.5	380.7	379.3	372.0	369.6	313.9	43.1	18.4
65°	378.8	354.1	346.3	343.0	336.7	336.7	279.5	44.1	35.8	31.0	16.5
67.5°	309.0	307.1	303.2	298.9	203.4	42.6	37.3	32.5	28.1	24.7	14.5
70°	261.6	260.6	237.4	43.6	36.3	32.0	28.1	25.2	23.3	20.8	13.1
72.5°	214.6	43.6	36.8	32.0	27.6	25.2	22.8	20.3	18.4	17.0	10.7
75°	33.4	29.5	26.2	23.7	21.8	19.4	17.4	16.0	15.5	13.6	7.3
77.5°	24.2	20.8	18.9	17.0	15.0	13.6	11.6	10.2	9.2	7.8	5.3
80°	17.0	15.0	13.6	11.1	9.7	8.2	7.3	6.3	5.8	4.8	2.4
82.5°	9.7	8.2	7.3	5.8	5.3	4.4	3.9	3.4	3.4	2.4	2.4
85°	4.4	4.4	3.4	2.9	2.4	2.4	2.4	1.9	1.9	1.5	1.5
87.5°	1.9	1.9	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.0
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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1664.4	1670.7	1682.8	1695.4	1681.3	1731.7	1727.8	1744.8	1754.0	1758.4	1768.5
5°	1812.6	1840.7	1849.9	1822.3	1806.3	1789.9	1752.6	1724.5	1727.8	1718.6	1685.2
7.5°	1809.7	1749.6	1668.8	1631.9	1629.0	1624.7	1636.3	1643.1	1644.0	1643.6	1642.6
10°	1656.6	1625.6	1620.3	1615.5	1617.4	1599.5	1591.2	1568.0	1580.6	1573.8	1576.2
12.5°	1610.1	1602.9	1574.3	1534.6	1558.3	1540.4	1530.2	1537.0	1529.2	1522.0	1519.6
15°	1582.5	1535.5	1519.6	1509.9	1503.1	1499.2	1502.6	1494.9	1492.4	1491.0	1494.4
17.5°	1525.4	1506.5	1489.0	1463.4	1463.9	1462.4	1472.1	1486.6	1487.6	1413.0	1345.7
20°	1480.3	1464.8	1442.5	1426.6	1448.4	1409.6	1259.9	1188.7	1177.6	1177.6	1179.5
22.5°	1444.5	1410.1	1411.5	1386.3	1182.4	1140.8	1141.7	1146.1	1126.2	1058.4	1051.1
25°	1395.6	1390.2	1284.1	1109.8	1111.2	1078.8	1028.9	958.6	882.6	882.6	870.0
27.5°	1358.7	1245.9	1090.9	1083.6	974.6	905.8	863.2	798.8	790.1	781.8	782.8
30°	1327.3	1054.1	1057.9	905.8	825.4	768.3	764.9	754.2	748.9	747.4	742.1
32.5°	1049.2	1026.4	885.5	771.2	739.7	730.5	726.1	714.0	713.5	704.3	640.4
35°	983.8	901.0	741.1	710.1	700.9	692.2	684.9	459.7	54.3	21.8	18.9
37.5°	909.2	752.8	685.4	671.4	662.7	489.7	48.9	17.0	12.1	8.7	7.8
40°	770.7	672.3	651.0	635.5	262.1	17.0	10.7	8.2	4.8	4.4	3.9
42.5°	650.1	633.6	610.8	186.0	19.4	8.2	5.3	3.9	3.4	3.4	2.9
45°	608.4	593.9	246.1	18.4	12.1	3.9	3.4	3.4	2.9	1.9	1.9
47.5°	569.7	501.4	22.3	11.6	7.8	3.4	2.9	1.9	1.9	1.9	1.5
50°	528.5	27.6	15.5	8.7	4.8	1.9	1.9	1.9	1.9	1.5	1.5
52.5°	98.8	19.4	12.6	7.8	2.4	1.9	1.9	1.9	1.5	1.5	1.5
55°	23.3	15.5	11.6	6.8	1.9	1.9	1.9	1.5	1.5	1.5	1.0
57.5°	17.4	11.6	9.2	6.3	1.9	1.5	1.5	1.5	1.5	1.5	1.0
60°	14.5	8.2	7.3	5.8	1.5	1.5	1.5	1.5	1.5	1.5	1.0
62.5°	10.2	6.8	5.3	4.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	8.2	5.3	4.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	7.3	4.4	2.9	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	5.8	1.5	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	4.8	1.5	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	4.8	2.4	1.0	1.0	1.5	1.5	1.9	1.9	1.5	1.5	1.5
77.5°	3.4	2.4	1.0	1.0	1.5	1.5	1.9	1.9	1.5	1.5	1.5
80°	1.9	2.4	1.0	1.5	1.5	2.9	3.4	1.9	1.5	1.5	1.5
82.5°	1.9	2.4	2.9	2.9	1.5	2.4	2.9	2.4	1.9	1.5	1.5
85°	1.9	1.5	1.9	2.4	1.5	2.4	2.4	1.9	1.9	1.5	1.5
87.5°	1.0	1.5	1.5	1.9	1.9	1.9	2.4	1.9	1.9	1.9	1.5
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1773.4	1775.3	1744.8	1734.1	1743.4	1741.4	1733.2	1702.7	1699.3	1678.9	1649.4
5°	1694.9	1708.0	1692.0	1719.6	1706.5	1719.6	1759.3	1777.7	1807.8	1826.2	1833.0
7.5°	1640.2	1643.1	1643.1	1645.5	1647.9	1648.4	1645.5	1643.6	1635.3	1625.2	1643.6
10°	1573.8	1577.2	1583.0	1582.0	1581.6	1591.7	1594.2	1615.0	1614.0	1617.9	1631.9
12.5°	1539.4	1513.3	1537.0	1530.7	1539.4	1525.9	1551.0	1546.7	1548.1	1559.8	1589.8
15°	1482.3	1490.5	1496.3	1496.3	1499.7	1496.8	1493.9	1513.7	1525.9	1526.3	1524.4
17.5°	1372.3	1309.8	1373.8	1357.3	1488.6	1491.9	1480.8	1471.6	1471.6	1478.9	1494.4
20°	1178.1	1179.5	1180.0	1186.3	1194.0	1193.6	1194.0	1384.9	1475.5	1454.6	1440.6
22.5°	1032.7	1014.8	1048.2	1045.8	1087.5	1133.5	1177.6	1173.2	1176.1	1310.8	1431.9
25°	827.8	851.1	832.2	840.4	887.4	942.2	976.1	1064.7	1161.1	1154.3	1185.8
27.5°	779.4	773.1	781.8	781.8	788.1	795.4	814.3	864.2	949.9	1040.0	1125.3
30°	733.4	738.7	739.7	748.4	753.2	758.1	761.0	779.9	799.3	861.7	966.9
32.5°	550.8	482.9	635.5	676.7	711.6	719.8	725.6	733.4	747.4	756.6	809.4
35°	16.0	16.0	17.0	19.4	24.7	166.6	634.6	699.5	708.7	720.3	730.0
37.5°	7.8	5.8	6.8	7.3	8.7	12.1	17.4	54.3	604.0	683.0	693.7
40°	3.4	3.4	3.4	3.4	3.9	4.8	7.3	12.1	18.4	485.9	655.4
42.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.4	4.4	8.7	20.8	343.9
45°	1.9	1.9	1.5	1.9	1.9	2.4	2.9	2.9	3.9	13.1	23.7
47.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.9	8.7	12.6
50°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	6.8	8.7
52.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	7.8
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.9	6.8
57.5°	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.5	1.5	6.3
60°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	5.8
62.5°	1.5	1.5	1.0	1.5	1.0	1.0	1.5	1.5	1.5	1.5	3.9
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.5
67.5°	1.5	1.5	1.5	1.5	1.0	1.5	1.0	1.5	1.5	1.0	1.0
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.0	1.0	1.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.9	2.4	2.4	1.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	3.4
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9	1.9	2.4
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9	1.5	1.9
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.5	1.5	1.5
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1651.8	1635.3	1630.0	1618.9	1617.9	1618.9	1616.4	1613.0	1615.0	1611.6	1608.7
5°	1836.8	1792.8	1764.2	1725.9	1673.1	1661.5	1658.6	1642.1	1636.3	1634.4	1626.6
7.5°	1687.2	1767.6	1816.0	1832.5	1770.5	1755.9	1739.0	1725.4	1712.3	1687.6	1672.6
10°	1620.8	1624.7	1671.2	1725.4	1813.6	1825.7	1834.9	1805.4	1797.1	1734.1	1720.6
12.5°	1605.3	1605.8	1611.1	1644.0	1713.3	1721.1	1753.5	1771.0	1792.3	1804.4	1794.7
15°	1534.6	1573.8	1602.9	1605.8	1612.1	1625.6	1635.3	1695.9	1721.6	1790.3	1786.5
17.5°	1501.6	1514.2	1556.4	1590.8	1585.0	1580.1	1587.9	1596.1	1620.8	1689.6	1688.6
20°	1446.9	1487.1	1509.9	1545.7	1578.2	1579.6	1570.9	1566.1	1556.4	1567.5	1577.7
22.5°	1423.6	1429.9	1472.6	1497.8	1534.6	1547.7	1549.6	1550.1	1544.7	1538.9	1536.0
25°	1421.2	1401.4	1423.2	1454.6	1481.8	1495.8	1511.8	1517.1	1515.2	1515.2	1512.3
27.5°	1163.0	1395.1	1383.4	1404.3	1437.2	1446.9	1455.1	1471.6	1481.8	1489.0	1492.4
30°	1107.8	1149.5	1352.4	1355.3	1388.8	1387.8	1397.0	1410.6	1423.6	1440.6	1445.0
32.5°	979.9	1082.1	1238.1	1306.4	1341.3	1344.7	1349.5	1353.4	1365.5	1384.4	1400.9
35°	785.2	985.8	1060.8	1283.2	1289.5	1296.3	1299.2	1308.4	1312.2	1320.0	1334.5
37.5°	710.6	814.8	1017.7	1109.8	1229.9	1235.7	1251.2	1255.1	1261.4	1267.7	1278.8
40°	667.5	696.1	847.2	991.1	1181.9	1185.8	1191.1	1200.8	1201.3	1208.6	1218.7
42.5°	633.1	651.5	695.6	946.5	1148.0	1147.5	1134.9	1141.2	1144.1	1151.9	1165.9
45°	505.7	611.3	639.4	773.1	914.1	979.9	1106.4	1085.5	1085.1	1088.0	1103.0
47.5°	25.7	575.0	594.8	638.0	863.2	865.6	882.1	1020.6	1041.9	1035.2	1036.6
50°	17.4	39.7	554.2	574.0	744.0	804.1	816.2	822.5	902.4	991.6	977.0
52.5°	13.6	22.8	339.6	532.8	604.5	648.6	726.6	771.2	776.0	811.9	933.4
55°	12.1	17.4	36.8	491.7	513.9	523.6	569.2	647.2	710.1	729.0	730.5
57.5°	10.7	16.0	25.2	222.3	467.4	469.4	477.1	504.3	560.9	612.8	671.4
60°	9.7	14.0	19.9	38.3	424.8	429.7	431.1	438.4	445.2	480.5	547.9
62.5°	5.8	11.1	17.4	27.6	336.2	386.1	385.6	390.4	396.7	400.6	414.2
65°	4.8	8.7	15.0	23.3	41.2	51.3	312.0	346.8	350.7	356.0	358.5
67.5°	4.4	7.8	11.1	18.4	31.0	35.4	40.7	50.4	275.1	310.0	314.9
70°	3.9	5.3	9.2	15.5	25.2	27.1	30.5	34.9	41.2	50.9	249.0
72.5°	2.4	3.9	6.3	11.1	19.4	21.8	23.7	26.6	29.5	35.4	40.7
75°	1.0	2.9	5.3	8.2	15.0	16.5	17.9	19.9	22.3	26.2	29.1
77.5°	1.0	2.4	4.4	5.8	9.7	11.1	13.1	14.5	16.5	18.4	21.3
80°	3.4	1.9	2.9	4.4	6.8	7.3	8.2	9.2	10.7	12.1	14.0
82.5°	2.4	2.9	3.4	2.9	3.4	4.4	4.8	5.8	6.3	7.3	7.8
85°	1.9	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.9	3.4	4.4
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1608.7	1607.7	1604.8	1604.8	1604.3	1606.3	1607.7	1609.2	1608.7	1611.6	1608.7
5°	1620.8	1618.4	1614.0	1610.1	1608.7	1609.7	1608.2	1609.7	1607.7	1610.1	1605.8
7.5°	1654.2	1646.0	1629.0	1622.3	1613.5	1613.0	1608.7	1607.7	1604.8	1604.8	1599.5
10°	1713.3	1673.6	1668.8	1648.4	1641.1	1605.8	1613.5	1600.5	1599.0	1592.7	1590.3
12.5°	1761.8	1730.8	1721.6	1703.6	1683.3	1611.6	1627.6	1599.5	1598.0	1585.4	1572.4
15°	1762.7	1780.6	1755.5	1706.1	1701.7	1652.3	1619.8	1610.1	1597.5	1559.8	1566.1
17.5°	1706.1	1747.2	1759.3	1748.7	1717.7	1684.3	1638.7	1619.3	1581.6	1564.6	1553.0
20°	1614.0	1655.7	1707.5	1710.9	1730.3	1706.5	1647.0	1615.5	1569.9	1540.4	1530.7
22.5°	1540.9	1571.4	1631.0	1658.6	1682.3	1690.6	1652.8	1606.3	1549.6	1521.0	1515.2
25°	1502.1	1508.9	1526.8	1559.3	1611.6	1649.4	1654.7	1605.3	1575.7	1513.3	1480.3
27.5°	1488.1	1482.3	1475.0	1491.5	1530.7	1576.7	1607.2	1615.5	1541.8	1482.3	1449.3
30°	1452.2	1455.6	1444.5	1438.7	1464.3	1511.8	1566.1	1579.6	1522.9	1461.4	1423.6
32.5°	1408.1	1414.0	1415.9	1405.7	1400.4	1433.3	1491.9	1524.4	1521.5	1431.9	1389.7
35°	1352.9	1369.4	1373.8	1374.2	1365.5	1360.2	1394.1	1461.4	1487.1	1418.3	1357.3
37.5°	1294.8	1299.6	1323.4	1329.7	1329.7	1313.7	1338.9	1392.6	1428.5	1387.8	1317.6
40°	1222.1	1237.6	1259.9	1271.1	1282.2	1283.7	1269.6	1307.4	1366.5	1356.3	1280.3
42.5°	1169.3	1179.5	1193.1	1208.1	1230.9	1236.7	1222.1	1228.9	1290.4	1317.1	1231.8
45°	1107.8	1121.4	1125.3	1141.7	1165.5	1182.4	1181.9	1167.9	1217.3	1250.2	1196.5
47.5°	1044.8	1057.9	1064.7	1072.9	1090.4	1112.2	1124.3	1118.0	1127.7	1192.1	1149.5
50°	979.9	987.2	1000.8	1010.0	1021.6	1034.2	1063.3	1069.1	1055.5	1106.9	1097.6
52.5°	918.4	920.8	930.0	939.2	954.7	964.0	987.2	1004.6	1003.7	1018.7	1040.0
55°	870.5	859.8	861.7	869.0	879.2	893.2	906.3	933.4	942.6	945.5	979.5
57.5°	680.1	789.6	799.3	798.8	810.9	817.2	829.3	847.2	880.2	872.9	910.7
60°	618.1	630.2	721.8	732.4	736.8	742.6	757.1	773.6	797.8	813.3	829.8
62.5°	471.3	544.9	572.6	653.5	666.0	669.4	679.1	686.9	712.1	747.4	740.6
65°	364.8	396.2	480.5	513.5	582.2	591.0	604.5	612.8	620.0	660.7	662.7
67.5°	315.3	320.2	343.0	406.4	450.0	517.3	525.6	532.8	544.0	573.0	591.0
70°	269.3	275.1	281.4	286.8	343.4	388.0	450.5	452.9	460.2	479.6	520.2
72.5°	50.9	230.1	234.0	237.4	243.7	273.2	332.8	381.2	384.1	393.3	430.6
75°	34.4	40.2	55.2	189.9	196.2	198.1	208.3	268.8	313.4	315.3	331.8
77.5°	24.7	27.6	33.4	39.7	101.2	152.1	154.5	165.7	211.7	245.1	248.0
80°	17.0	18.9	22.3	25.2	31.0	40.7	112.4	115.8	121.6	167.6	176.3
82.5°	9.7	11.1	13.1	16.0	18.4	23.3	30.0	38.8	79.0	84.3	111.9
85°	4.8	5.3	6.3	7.8	9.2	11.1	15.0	18.4	25.2	45.5	47.0
87.5°	2.4	2.4	2.4	2.4	3.9	4.4	5.3	6.8	8.7	13.1	17.0
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1609.2	1616.0	1621.8	1623.2	1623.2	1624.2	1625.6	1626.6	1627.6	1628.5	1627.6
5°	1606.3	1613.5	1618.4	1619.8	1619.8	1622.7	1625.2	1628.1	1629.5	1629.5	1628.5
7.5°	1599.0	1604.3	1610.6	1614.5	1615.0	1619.8	1624.2	1623.7	1625.6	1626.6	1629.0
10°	1589.3	1589.3	1600.0	1602.9	1605.3	1610.6	1612.1	1615.0	1621.8	1622.7	1629.0
12.5°	1584.5	1579.6	1592.2	1593.7	1601.9	1595.1	1603.8	1606.7	1600.0	1609.2	1597.1
15°	1562.7	1568.5	1566.5	1570.9	1585.4	1577.7	1601.4	1593.7	1611.1	1590.3	1627.1
17.5°	1544.7	1543.8	1551.5	1555.4	1558.3	1574.8	1581.1	1589.8	1596.6	1590.8	1605.3
20°	1531.7	1523.9	1529.7	1534.1	1544.3	1556.9	1560.7	1547.7	1570.4	1609.2	1618.4
22.5°	1507.0	1501.6	1508.4	1508.4	1523.9	1522.0	1536.5	1528.3	1549.6	1594.6	1641.6
25°	1473.5	1474.0	1481.3	1490.0	1492.9	1514.7	1522.5	1533.1	1559.8	1613.5	1642.1
27.5°	1439.6	1436.7	1441.1	1459.0	1474.0	1490.0	1492.4	1528.8	1565.1	1601.9	1627.1
30°	1405.7	1402.8	1405.7	1418.8	1436.7	1447.4	1474.0	1522.5	1556.4	1581.6	1605.3
32.5°	1369.4	1366.5	1373.3	1383.0	1414.4	1415.9	1468.7	1514.2	1540.9	1559.3	1554.9
35°	1330.6	1326.8	1333.1	1348.1	1377.1	1387.8	1443.0	1476.9	1507.0	1515.7	1495.3
37.5°	1284.1	1277.4	1285.1	1305.9	1336.5	1367.5	1413.5	1452.7	1468.7	1445.4	1421.2
40°	1235.7	1230.9	1244.4	1255.1	1290.9	1334.0	1386.8	1414.4	1404.3	1377.6	1351.0
42.5°	1192.6	1182.4	1194.5	1214.9	1255.6	1304.5	1347.1	1362.6	1338.4	1299.2	1268.2
45°	1139.8	1127.7	1142.2	1169.3	1212.9	1268.6	1302.1	1296.7	1255.6	1221.7	1179.0
47.5°	1084.6	1070.0	1084.6	1117.0	1165.9	1225.0	1249.3	1225.0	1173.2	1130.6	1096.2
50°	1030.3	1013.4	1027.4	1076.3	1124.3	1169.8	1169.3	1122.4	1091.3	1044.8	1014.8
52.5°	976.5	952.3	966.4	1019.7	1067.6	1119.4	1081.2	1037.6	1000.3	959.6	949.9
55°	910.2	884.0	902.9	980.4	1017.2	1047.8	986.7	948.5	911.6	891.3	879.2
57.5°	847.2	818.6	835.1	926.7	953.8	961.5	905.3	851.1	829.3	822.5	805.1
60°	782.3	749.8	765.3	870.9	889.8	858.4	803.1	761.0	756.6	743.1	729.5
62.5°	720.3	684.5	694.1	801.7	810.4	753.2	702.4	691.2	680.6	667.0	659.8
65°	649.1	611.8	625.4	728.1	719.8	646.2	617.6	615.2	601.1	590.0	600.7
67.5°	583.7	539.6	558.5	647.6	610.3	550.3	538.7	532.8	521.7	528.0	416.1
70°	512.0	464.1	489.7	560.9	505.7	466.0	461.6	452.9	453.4	360.4	303.7
72.5°	432.1	390.4	427.7	466.0	400.1	388.5	382.2	381.2	307.6	249.9	235.9
75°	361.8	319.7	359.9	374.4	318.7	311.0	310.5	256.7	202.0	192.8	188.4
77.5°	282.4	249.9	288.2	266.4	244.6	235.9	211.7	158.9	152.1	145.8	54.7
80°	190.4	192.8	215.1	183.6	174.4	148.7	117.2	112.4	96.9	38.8	30.5
82.5°	115.8	145.3	137.1	114.8	112.4	80.9	74.1	37.8	28.1	22.3	19.4
85°	60.1	73.6	70.7	62.5	46.5	41.7	23.3	17.9	14.5	11.1	9.2
87.5°	20.3	27.1	26.2	20.8	16.0	12.6	8.2	6.8	4.8	3.9	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1626.6	1626.6	1625.6	1626.6	1627.1	1626.1	1626.1	1627.1	1627.6	1628.1	1630.5
5°	1629.0	1630.0	1631.5	1634.4	1634.8	1640.7	1643.1	1644.5	1646.0	1646.5	1643.1
7.5°	1634.4	1637.8	1640.7	1640.2	1636.8	1627.6	1624.7	1622.3	1626.6	1637.8	1650.8
10°	1639.2	1623.7	1594.6	1634.4	1622.3	1633.4	1666.3	1673.6	1695.9	1727.4	1736.6
12.5°	1605.8	1648.4	1657.6	1613.0	1695.4	1664.9	1701.2	1733.2	1742.4	1774.4	1755.0
15°	1641.6	1662.5	1676.5	1721.1	1716.2	1742.4	1752.6	1746.3	1747.7	1755.9	1777.7
17.5°	1641.1	1682.8	1692.0	1722.0	1742.4	1742.9	1740.0	1737.1	1744.8	1751.1	1738.0
20°	1669.2	1682.8	1700.7	1712.8	1716.7	1721.6	1730.8	1723.5	1709.0	1694.9	1689.1
22.5°	1655.2	1685.7	1701.2	1703.1	1700.7	1685.7	1672.1	1651.8	1645.0	1637.8	1640.2
25°	1658.1	1672.1	1670.2	1662.5	1652.3	1624.2	1617.4	1608.7	1595.6	1564.1	1535.5
27.5°	1637.3	1630.0	1621.3	1602.4	1584.0	1569.0	1552.0	1523.9	1500.7	1466.8	1454.2
30°	1602.4	1573.3	1552.0	1540.9	1522.9	1497.8	1472.1	1437.7	1408.1	1401.4	1395.1
32.5°	1535.5	1507.0	1489.5	1462.4	1431.9	1401.8	1372.3	1358.7	1352.4	1353.4	1347.6
35°	1467.2	1442.1	1415.9	1375.2	1352.4	1322.4	1311.8	1308.8	1303.0	1296.7	1290.0
37.5°	1394.6	1365.0	1325.8	1301.6	1278.8	1266.7	1261.4	1257.0	1246.8	1235.7	1228.0
40°	1324.3	1271.1	1249.3	1225.5	1218.7	1213.4	1205.7	1195.0	1181.0	1179.0	1175.6
42.5°	1230.4	1192.1	1173.2	1168.4	1160.1	1150.9	1144.1	1132.5	1126.7	1130.6	1133.5
45°	1141.2	1121.9	1115.6	1109.8	1094.3	1081.2	1076.8	1072.9	1077.8	1099.1	1048.2
47.5°	1069.1	1061.3	1053.6	1043.9	1029.3	1019.7	1024.0	1027.9	1032.3	875.8	799.3
50°	1006.6	995.9	983.8	973.2	964.4	963.5	986.2	917.9	768.7	764.9	687.4
52.5°	938.3	922.3	915.0	908.7	912.6	927.1	767.3	712.1	683.0	593.4	553.7
55°	864.7	850.6	850.6	856.4	835.6	677.2	669.0	578.4	523.6	508.1	501.8
57.5°	791.0	789.6	797.8	729.5	614.7	589.5	495.5	475.7	467.0	465.0	454.9
60°	723.7	737.3	617.1	567.7	493.6	445.2	431.6	429.2	420.0	416.6	407.4
62.5°	669.9	555.6	517.3	422.4	397.7	391.4	384.1	380.7	372.5	328.9	96.4
65°	483.9	457.3	371.0	355.1	353.1	343.9	341.0	306.6	72.2	48.4	41.2
67.5°	365.2	324.1	312.9	310.0	300.8	282.4	83.8	48.0	41.2	35.8	31.5
70°	280.5	273.2	265.0	258.2	76.1	47.5	41.2	34.9	30.0	26.6	24.2
72.5°	229.6	224.8	130.8	49.9	40.7	34.4	30.5	26.6	23.3	21.3	19.4
75°	179.7	49.9	41.2	34.4	29.5	25.2	22.3	19.9	17.9	16.5	15.0
77.5°	40.7	32.9	28.1	23.7	21.3	18.9	17.0	14.5	13.1	11.6	9.7
80°	25.2	21.8	18.4	17.0	14.5	12.1	10.7	9.7	7.8	7.3	6.3
82.5°	16.5	13.1	11.6	9.7	7.8	7.3	6.3	4.8	4.4	3.9	3.4
85°	7.3	6.3	5.3	4.4	3.4	2.9	2.4	1.9	1.9	1.9	1.9
87.5°	2.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1631.5	1640.2	1648.4	1646.0	1637.3	1623.7	1619.8	1614.5	1618.4	1626.6	1630.0
5°	1643.1	1638.2	1655.7	1681.3	1723.0	1726.9	1755.9	1762.7	1786.0	1800.5	1800.0
7.5°	1659.5	1728.3	1756.9	1787.9	1802.0	1798.6	1802.9	1799.5	1794.2	1791.8	1788.9
10°	1743.4	1795.7	1806.3	1806.3	1784.5	1755.0	1742.4	1720.6	1677.0	1678.0	1670.7
12.5°	1792.3	1810.7	1785.5	1764.2	1676.5	1642.6	1605.8	1588.3	1578.2	1562.7	1568.5
15°	1766.6	1740.4	1725.4	1656.6	1602.9	1541.8	1542.8	1532.2	1521.0	1522.0	1514.7
17.5°	1728.8	1708.0	1601.4	1554.0	1527.8	1504.1	1499.7	1485.7	1478.4	1476.0	1475.5
20°	1677.0	1601.9	1522.5	1510.8	1479.4	1452.2	1447.9	1452.2	1474.5	1434.8	1300.1
22.5°	1616.4	1508.4	1485.2	1452.2	1430.9	1420.3	1446.9	1325.8	1142.7	1165.0	1141.2
25°	1513.7	1466.8	1427.0	1401.8	1399.4	1334.0	1111.7	1088.4	970.7	907.8	837.0
27.5°	1438.7	1418.3	1376.7	1372.3	1340.8	1090.9	975.1	847.2	800.2	793.0	777.5
30°	1393.1	1364.1	1338.9	1228.9	1070.0	878.2	782.3	764.4	756.1	747.4	733.9
32.5°	1338.4	1310.8	1322.9	1033.2	853.0	756.1	736.8	723.7	708.7	702.9	653.9
35°	1282.7	1270.1	1033.7	868.5	733.4	710.1	695.6	682.0	542.5	131.3	44.6
37.5°	1223.1	1220.2	929.1	720.8	686.9	665.1	623.9	128.8	30.5	20.8	15.5
40°	1176.6	929.6	734.3	675.7	648.1	613.7	86.2	21.3	13.6	8.2	5.3
42.5°	1145.6	836.1	657.3	634.1	574.0	63.5	21.8	9.2	5.3	4.4	3.4
45°	883.1	660.2	614.2	590.0	72.7	21.8	12.6	4.4	3.4	2.9	1.9
47.5°	814.8	599.7	572.6	128.8	24.2	11.6	8.7	2.9	1.9	1.9	1.9
50°	617.1	554.2	455.8	31.5	15.5	8.2	6.3	1.9	1.9	1.9	1.5
52.5°	541.1	511.5	48.9	20.8	12.1	6.3	3.9	1.5	1.5	1.5	1.5
55°	494.6	324.5	29.1	16.0	10.2	5.8	2.4	1.5	1.5	1.5	1.0
57.5°	452.4	43.6	21.3	13.6	9.2	5.3	1.5	1.5	1.5	1.5	1.0
60°	383.6	31.5	17.4	12.1	8.7	4.8	1.5	1.5	1.5	1.5	1.5
62.5°	49.9	24.7	15.0	10.7	6.3	3.9	1.0	1.5	1.5	1.5	1.5
65°	36.3	19.4	13.6	7.3	3.9	1.5	1.0	1.5	1.5	1.5	1.5
67.5°	28.1	16.0	10.2	6.3	3.4	1.0	1.0	1.5	1.5	1.5	1.5
70°	22.3	13.6	8.2	5.3	2.9	1.0	1.0	1.5	1.5	1.5	1.5
72.5°	17.4	9.7	5.8	2.9	1.9	1.0	1.0	1.5	1.5	1.5	1.5
75°	13.1	7.8	4.4	2.4	1.0	1.0	1.0	1.5	1.5	1.5	1.5
77.5°	8.7	4.8	3.4	1.9	1.9	1.9	2.4	2.4	1.5	1.5	1.5
80°	5.8	3.4	2.4	2.4	2.4	1.9	2.4	2.4	1.5	2.4	1.5
82.5°	2.9	2.4	2.4	1.9	1.9	1.5	1.9	1.9	1.9	1.9	1.5
85°	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.5
87.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.9	1.9	1.5
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1625.6	1627.1	1623.2	1644.0	1633.4	1634.4	1638.7	1627.6	1630.0	1622.3	1616.9
5°	1802.0	1804.9	1807.8	1808.7	1810.7	1813.1	1810.2	1808.7	1805.8	1796.1	1786.0
7.5°	1774.4	1771.0	1769.5	1771.4	1774.8	1776.3	1773.9	1777.3	1789.9	1795.2	1798.6
10°	1629.0	1613.5	1624.2	1622.7	1610.6	1651.3	1640.2	1646.5	1650.8	1695.4	1722.5
12.5°	1559.8	1569.5	1551.0	1541.8	1554.0	1562.2	1570.4	1553.0	1577.2	1566.1	1601.9
15°	1501.6	1495.8	1493.9	1494.4	1491.9	1503.6	1506.5	1510.4	1513.7	1528.8	1534.6
17.5°	1475.5	1485.2	1489.0	1491.9	1487.1	1481.8	1476.4	1468.7	1471.1	1467.2	1478.4
20°	1209.5	1177.1	1175.2	1194.0	1173.2	1184.8	1212.9	1400.9	1394.6	1467.7	1443.0
22.5°	1009.5	979.0	952.8	930.0	962.5	976.1	1028.4	1087.5	1183.4	1168.4	1272.5
25°	824.4	813.3	806.5	803.1	805.6	804.6	816.2	843.8	887.4	990.1	1122.8
27.5°	771.2	765.8	763.4	755.7	761.5	759.5	768.7	774.6	787.6	797.8	840.9
30°	729.0	722.7	718.4	710.1	715.9	716.4	719.3	734.3	739.7	748.4	762.0
32.5°	266.4	156.9	147.3	140.0	153.1	199.6	350.2	612.3	698.5	705.3	720.8
35°	26.2	21.8	19.4	19.4	19.9	21.8	29.1	76.5	140.0	541.1	677.2
37.5°	10.2	8.7	7.3	6.8	7.3	8.2	11.1	14.5	19.9	41.2	183.6
40°	4.4	3.9	3.4	3.4	3.4	3.4	3.9	4.8	7.3	13.6	21.3
42.5°	2.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.4	4.4	8.7
45°	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.4	3.9
47.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
50°	1.5	1.5	1.5	1.5	1.0	1.5	1.0	1.5	1.5	1.5	1.5
52.5°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.5	1.5	1.0	1.5	1.0	1.0	1.5	1.5	1.5	1.0	1.0
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	2.9	1.9
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.9	2.4
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1607.7	1607.2	1617.4	1625.2	1622.3	1625.2	1628.5	1629.0	1630.0	1626.1	1624.7
5°	1766.6	1751.6	1722.5	1701.7	1677.5	1633.4	1611.6	1614.0	1614.5	1613.0	1615.0
7.5°	1797.1	1795.7	1785.5	1781.1	1764.7	1733.2	1682.8	1674.1	1652.8	1639.2	1628.1
10°	1720.6	1755.5	1764.7	1780.2	1789.9	1784.0	1741.4	1735.1	1721.6	1706.1	1709.4
12.5°	1637.8	1666.3	1667.8	1752.1	1771.0	1772.9	1756.4	1765.1	1767.1	1732.2	1711.9
15°	1536.0	1549.6	1578.2	1656.6	1713.8	1749.6	1760.3	1765.1	1741.4	1740.0	1731.7
17.5°	1491.5	1500.2	1513.3	1557.3	1644.0	1696.8	1741.9	1738.5	1747.7	1740.9	1720.1
20°	1435.3	1442.5	1465.8	1488.1	1530.7	1600.9	1685.2	1691.5	1703.6	1702.2	1708.0
22.5°	1434.3	1408.6	1412.5	1429.9	1474.5	1537.5	1627.1	1647.9	1655.7	1661.0	1667.3
25°	1137.9	1341.8	1379.1	1390.2	1419.3	1456.1	1561.7	1569.5	1584.0	1607.7	1625.2
27.5°	985.8	1124.3	1273.5	1351.0	1369.4	1399.9	1462.9	1474.5	1523.9	1529.7	1556.9
30°	777.9	885.0	1107.8	1294.3	1324.8	1346.1	1390.7	1414.0	1435.3	1458.5	1487.1
32.5°	731.9	748.9	872.4	1071.0	1308.4	1292.4	1325.3	1339.4	1362.6	1383.0	1403.8
35°	689.8	701.4	727.6	877.2	1065.7	1248.3	1270.6	1279.8	1292.9	1308.4	1323.4
37.5°	645.7	663.1	681.1	721.3	985.8	1213.4	1212.9	1223.6	1231.3	1244.4	1257.0
40°	117.2	608.9	638.0	664.1	764.4	967.8	1158.7	1163.5	1168.9	1177.1	1190.2
42.5°	18.9	101.7	597.7	622.9	651.5	866.6	1134.0	1114.1	1110.7	1116.5	1128.2
45°	9.7	24.7	120.1	581.8	607.4	691.2	927.1	1079.7	1076.3	1065.2	1067.6
47.5°	7.3	15.5	29.5	201.0	568.7	593.4	855.4	846.2	910.7	1034.2	1015.3
50°	6.3	10.7	17.4	41.2	502.3	546.4	658.8	769.7	803.6	808.0	956.2
52.5°	5.8	7.3	12.6	26.6	105.6	505.2	535.7	574.5	631.7	754.2	751.3
55°	5.3	6.8	10.7	17.9	36.8	455.3	486.8	494.1	506.2	564.8	642.3
57.5°	2.9	6.3	10.2	15.5	27.6	83.3	441.8	447.6	457.3	459.7	487.3
60°	1.5	5.8	9.2	13.6	20.3	38.8	397.2	404.0	409.8	410.8	419.5
62.5°	1.0	5.3	7.8	12.6	17.0	27.6	94.0	191.8	364.8	364.8	374.9
65°	1.0	3.9	4.8	8.2	15.5	22.8	39.7	46.0	89.6	220.4	328.9
67.5°	1.0	1.5	4.4	6.8	11.6	17.4	29.1	33.9	40.7	46.5	86.2
70°	1.0	1.0	3.9	4.4	7.3	13.1	20.8	23.7	27.6	31.5	36.3
72.5°	1.0	1.0	3.4	3.4	4.8	8.7	16.0	17.4	19.9	22.3	25.7
75°	2.4	1.9	2.9	2.9	3.4	6.8	12.1	13.6	14.5	16.5	18.9
77.5°	2.4	2.4	2.4	2.4	2.4	4.4	7.8	8.7	10.2	11.1	13.1
80°	1.9	1.9	1.9	2.4	2.4	2.9	4.8	5.3	5.8	7.3	7.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	3.4	4.4
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9	1.9
87.5°	1.5	1.5	1.5	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1624.2	1621.3	1618.9	1620.3	1616.0	1614.0	1615.5	1616.0	1616.9	1619.3	1619.8
5°	1619.8	1618.9	1623.2	1625.6	1624.7	1625.6	1625.6	1623.7	1620.8	1622.7	1618.4
7.5°	1616.9	1610.6	1605.8	1606.7	1601.9	1607.7	1613.0	1620.8	1623.2	1623.2	1618.4
10°	1666.8	1660.0	1632.9	1614.5	1602.4	1591.7	1616.9	1591.2	1603.4	1557.3	1610.1
12.5°	1708.0	1717.2	1705.1	1654.7	1646.0	1614.0	1632.4	1600.9	1591.7	1538.9	1555.9
15°	1724.5	1707.0	1703.1	1689.1	1670.2	1661.0	1611.6	1606.3	1591.2	1597.1	1574.8
17.5°	1709.9	1718.6	1707.0	1697.8	1678.4	1656.6	1627.1	1600.9	1580.1	1533.6	1572.8
20°	1695.9	1707.5	1672.6	1678.4	1680.4	1655.2	1639.7	1617.9	1591.7	1548.1	1514.2
22.5°	1672.6	1664.4	1667.3	1658.6	1651.3	1654.7	1633.4	1618.4	1574.3	1554.4	1508.4
25°	1634.8	1631.9	1639.7	1638.7	1621.3	1615.5	1604.8	1588.8	1571.4	1539.4	1501.6
27.5°	1573.3	1588.3	1601.9	1608.2	1599.0	1583.5	1577.7	1568.5	1556.4	1523.9	1495.8
30°	1508.4	1525.4	1540.9	1554.4	1562.7	1555.9	1550.6	1545.2	1526.8	1505.5	1474.0
32.5°	1434.3	1456.6	1477.9	1494.4	1512.3	1517.6	1513.7	1509.4	1493.9	1474.5	1449.3
35°	1348.6	1379.1	1410.1	1439.6	1447.4	1460.0	1472.6	1465.3	1457.1	1437.7	1414.4
37.5°	1275.9	1297.7	1320.0	1357.3	1384.4	1400.4	1422.7	1425.6	1411.5	1402.3	1371.8
40°	1200.8	1220.7	1253.1	1274.9	1312.2	1330.6	1354.4	1365.0	1361.6	1356.3	1329.7
42.5°	1141.7	1151.4	1172.7	1192.1	1228.9	1266.7	1287.5	1299.2	1311.3	1306.9	1293.3
45°	1078.8	1087.5	1094.7	1111.7	1147.5	1181.0	1206.6	1224.1	1245.9	1256.0	1239.6
47.5°	1016.3	1018.7	1027.4	1041.5	1062.8	1088.4	1131.6	1157.7	1178.1	1197.9	1187.3
50°	968.3	959.6	961.0	969.8	987.2	1012.4	1043.4	1080.2	1103.5	1127.7	1130.1
52.5°	846.2	917.0	900.0	904.9	914.1	926.2	958.6	995.0	1023.5	1044.4	1065.2
55°	710.1	724.2	860.3	840.9	846.7	857.4	872.4	908.7	936.3	965.4	994.5
57.5°	550.8	655.4	660.7	786.7	783.8	784.7	797.3	818.1	845.8	882.1	906.8
60°	428.2	472.3	558.0	601.6	712.1	715.9	723.2	735.3	759.1	793.4	832.7
62.5°	377.8	383.6	414.2	479.6	551.2	638.0	653.5	655.4	666.0	700.4	746.0
65°	331.8	335.7	344.9	351.7	411.7	495.5	570.1	582.2	589.0	609.4	648.1
67.5°	228.6	289.2	297.4	302.3	308.1	346.8	439.3	500.9	508.6	526.5	560.4
70°	44.1	91.6	250.4	255.8	258.7	267.4	282.4	380.3	431.6	448.6	464.1
72.5°	30.0	35.4	42.6	100.8	213.1	218.0	221.4	234.0	320.7	370.1	378.3
75°	21.8	24.2	28.6	35.4	43.6	141.9	175.8	182.1	188.4	260.1	301.8
77.5°	15.5	17.4	19.4	22.8	26.6	34.4	49.4	136.1	142.4	145.8	205.9
80°	8.7	10.7	13.1	15.0	17.0	19.4	25.2	31.5	70.2	102.7	108.0
82.5°	4.8	5.8	6.8	8.2	9.2	11.6	14.0	17.0	22.3	32.9	69.8
85°	2.4	2.4	2.4	3.4	3.9	5.3	6.3	7.3	10.2	14.0	19.4
87.5°	1.5	1.5	1.9	1.9	1.9	2.4	2.4	2.4	2.9	4.4	6.3
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: P1213737

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1620.3	1618.9	1618.9	1624.7	1623.2
5°	1617.4	1616.0	1615.5	1621.8	1618.9
7.5°	1615.0	1609.7	1608.2	1614.0	1611.6
10°	1605.3	1601.4	1603.8	1601.9	1600.9
12.5°	1588.8	1586.4	1576.2	1577.2	1585.4
15°	1559.3	1569.0	1551.5	1567.0	1570.4
17.5°	1505.0	1526.8	1543.8	1553.0	1554.4
20°	1529.2	1536.5	1527.8	1528.3	1534.1
22.5°	1497.8	1501.2	1503.6	1500.7	1513.3
25°	1447.4	1434.3	1462.4	1468.2	1488.6
27.5°	1431.9	1421.2	1434.3	1433.3	1450.3
30°	1419.3	1384.9	1390.7	1399.9	1420.7
32.5°	1401.4	1347.1	1341.3	1361.6	1384.9
35°	1369.9	1318.5	1305.0	1318.0	1352.9
37.5°	1343.2	1278.8	1251.7	1269.1	1314.7
40°	1303.5	1247.8	1205.7	1221.2	1274.9
42.5°	1256.0	1221.2	1156.3	1166.9	1228.4
45°	1208.1	1177.1	1108.3	1113.6	1186.8
47.5°	1159.2	1130.6	1058.4	1059.4	1133.5
50°	1111.2	1073.4	1013.8	996.9	1076.8
52.5°	1048.7	1013.8	968.8	941.2	1023.0
55°	989.6	950.4	917.5	874.8	962.0
57.5°	932.0	888.4	866.1	811.4	892.7
60°	853.0	832.2	799.3	746.9	830.3
62.5°	772.1	765.3	731.9	677.7	753.2
65°	677.7	693.7	659.3	612.8	673.3
67.5°	588.5	617.1	579.3	550.8	596.3
70°	493.6	526.5	505.2	495.1	514.4
72.5°	400.1	432.1	434.0	426.8	433.1
75°	309.0	344.4	363.8	352.6	354.1
77.5°	234.4	251.4	272.7	281.4	279.5
80°	144.8	174.4	191.8	209.7	203.4
82.5°	73.1	97.8	119.2	138.5	129.3
85°	30.5	39.2	54.7	72.2	69.3
87.5°	9.2	15.5	16.5	23.3	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)