

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

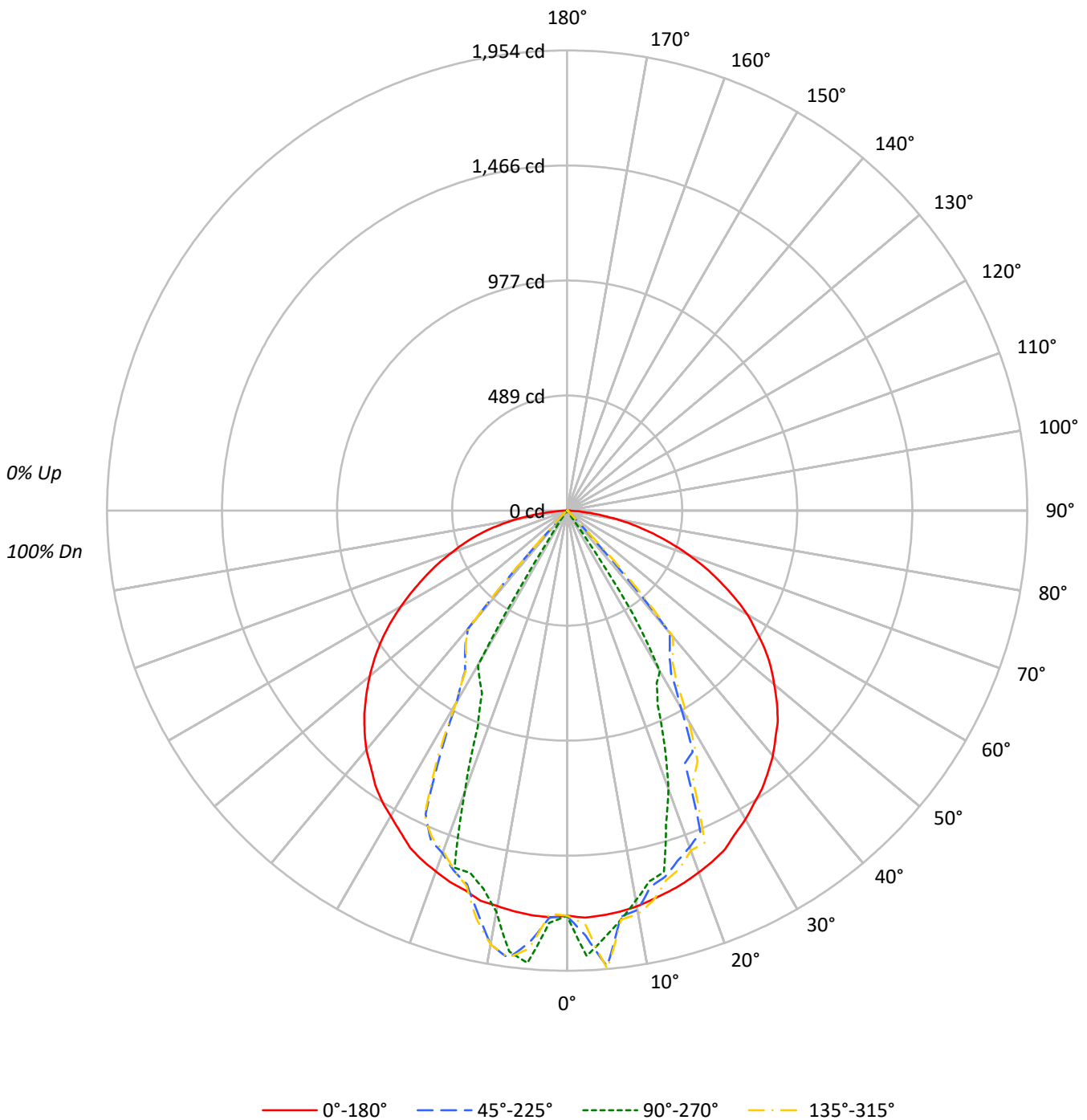
Lumens per Lamp: N/A
Luminaire Lumens: 2445.9 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13901	13901	13901	13901
5°	13958	14297	13954	15141
10°	13925	12937	13916	13311
15°	13886	12076	13852	12107
20°	13902	9511	13863	9628
25°	13943	6883	13875	6495
30°	13879	6038	13732	5805
35°	13920	133	13716	162
40°	13968	29	13634	29
45°	14018	17	13491	12
50°	13911	13	13272	13
55°	13828	9	12978	9
60°	13567	10	12506	10
65°	12860	16	11944	11
70°	11931	17	11356	17
75°	10553	20	10726	20
80°	8570	22	9060	22
85°	5042	26	5151	26



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	7.1
10°-20°	470.7	19.2
20°-30°	599.0	24.5
30°-40°	506.0	20.7
40°-50°	330.8	13.5
50°-60°	208.4	8.5
60°-70°	110.9	4.5
70°-80°	40.4	1.7
80°-90°	6.9	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°	1242.4	50.8
0°-40°	1748.4	71.5
0°-60°	2287.6	93.5
0°-90°	2445.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1720	1720	1720	1720	1720	
5°	1725	1820	1725	1928	1725	164
15°	1674	1589	1670	1593	1674	473
25°	1586	907	1579	856	1586	730
35°	1442	17	1421	21	1442	902
45°	1265	2	1217	2	1265	973
55°	1025	1	962	1	1025	914
65°	718	2	666	1	718	711
75°	377	2	384	2	377	401
85°	74	2	75	2	74	93
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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1730.0	1731.1	1731.6	1732.6	1734.1	1734.7	1735.7	1734.7	1734.7	1734.7	1734.7
5°	1725.4	1727.4	1729.0	1731.1	1734.7	1735.2	1739.3	1739.8	1741.9	1746.0	1749.1
7.5°	1717.6	1719.7	1722.8	1728.0	1733.1	1738.8	1746.0	1753.8	1764.6	1774.9	1787.8
10°	1706.3	1708.9	1712.5	1717.1	1742.4	1746.0	1762.0	1784.2	1790.4	1822.9	1847.2
12.5°	1689.8	1698.5	1707.8	1711.9	1736.2	1774.4	1828.1	1817.3	1805.4	1911.7	1910.2
15°	1673.7	1685.6	1681.0	1714.5	1736.7	1803.3	1780.6	1829.1	1917.9	1896.3	1897.3
17.5°	1656.7	1659.3	1685.1	1713.0	1752.7	1786.8	1814.7	1881.3	1898.8	1900.4	1881.3
20°	1635.0	1647.4	1685.1	1710.4	1777.5	1793.5	1853.9	1888.0	1880.8	1863.2	1830.7
22.5°	1612.8	1650.5	1688.7	1724.3	1771.3	1814.2	1844.1	1860.1	1822.4	1753.3	1716.1
25°	1586.5	1608.7	1658.8	1710.9	1769.8	1794.6	1812.1	1786.3	1737.2	1675.3	1612.8
27.5°	1545.7	1581.3	1645.4	1704.2	1757.4	1787.3	1758.9	1697.0	1618.0	1577.2	1548.8
30°	1514.2	1560.7	1613.3	1670.1	1725.4	1742.9	1670.6	1599.9	1545.7	1504.9	1498.7
32.5°	1476.0	1542.1	1592.2	1646.4	1692.8	1669.6	1599.4	1508.0	1463.1	1447.6	1453.8
35°	1441.9	1492.0	1557.6	1610.8	1644.3	1592.2	1481.2	1424.4	1402.7	1411.5	1400.1
37.5°	1401.2	1467.2	1527.6	1573.6	1562.2	1483.8	1389.8	1353.7	1356.2	1349.0	1327.3
40°	1358.8	1421.8	1484.8	1528.2	1488.4	1368.6	1306.2	1298.4	1300.0	1276.7	1245.8
42.5°	1309.3	1366.6	1429.6	1468.8	1383.1	1289.6	1247.3	1248.3	1234.9	1202.4	1185.9
45°	1264.9	1317.5	1383.1	1386.7	1281.4	1203.4	1191.0	1177.6	1147.7	1136.8	1124.4
47.5°	1208.1	1266.4	1320.6	1301.0	1181.7	1133.2	1123.9	1094.5	1079.5	1071.3	1060.9
50°	1147.7	1206.5	1256.1	1200.3	1087.8	1076.4	1046.0	1022.7	1012.4	1003.6	994.3
52.5°	1090.4	1138.9	1189.5	1093.5	1015.5	1004.7	970.1	956.6	946.3	936.5	934.4
55°	1025.3	1068.2	1102.8	991.8	946.3	921.0	896.2	887.0	877.1	872.5	880.2
57.5°	951.5	1000.0	994.9	891.6	871.5	834.8	825.5	819.3	812.1	815.2	750.7
60°	884.9	922.1	896.8	818.3	784.2	759.4	751.2	747.0	751.2	688.2	605.1
62.5°	802.8	844.6	793.5	732.6	696.4	684.6	677.3	683.0	622.6	553.4	533.3
65°	717.6	763.0	687.7	640.7	618.0	607.6	607.1	559.1	499.7	472.9	472.9
67.5°	635.5	682.5	585.4	546.2	537.4	538.5	508.5	435.7	419.2	401.1	349.0
70°	548.3	589.6	483.7	460.0	454.8	451.2	378.4	358.8	339.2	291.2	287.0
72.5°	461.5	481.7	388.8	383.1	382.0	317.5	303.1	269.5	246.8	241.1	238.5
75°	377.4	371.2	307.2	312.3	263.3	240.6	217.3	197.7	194.6	192.6	48.0
77.5°	297.9	266.9	242.1	210.6	188.4	160.0	155.4	152.3	100.2	36.1	29.4
80°	216.8	173.0	161.1	136.8	116.7	112.0	114.6	35.1	27.9	23.2	20.1
82.5°	137.8	110.5	90.3	79.0	76.9	33.6	24.8	20.1	17.6	15.0	12.4
85°	73.8	49.0	45.4	38.2	22.7	15.5	12.9	9.8	8.3	6.7	6.2
87.5°	23.2	19.6	16.0	12.9	7.7	5.2	4.1	3.6	3.1	2.6	2.6
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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1733.6	1734.7	1734.1	1735.7	1735.7	1737.8	1739.3	1740.9	1744.0	1745.5	1757.4
5°	1755.8	1758.4	1766.2	1773.4	1782.2	1784.7	1799.7	1803.3	1820.9	1822.9	1880.8
7.5°	1805.4	1815.2	1833.8	1852.4	1871.0	1882.8	1903.5	1916.4	1930.3	1942.7	1988.7
10°	1865.3	1881.8	1899.9	1918.5	1929.3	1952.0	1964.4	1966.5	1962.9	1942.7	1868.4
12.5°	1924.1	1940.7	1932.9	1936.5	1949.4	1909.2	1914.8	1885.9	1906.1	1806.4	1732.6
15°	1915.9	1914.8	1895.7	1833.8	1844.1	1767.2	1736.2	1712.5	1731.6	1721.2	1709.9
17.5°	1891.1	1844.1	1811.1	1736.7	1705.2	1683.6	1684.1	1684.6	1675.3	1685.1	1656.2
20°	1786.3	1733.6	1684.6	1658.3	1649.0	1633.5	1641.2	1633.5	1634.0	1637.1	1592.7
22.5°	1646.9	1630.9	1602.5	1610.8	1607.7	1621.6	1611.3	1595.3	1600.4	1577.2	1543.6
25°	1590.6	1572.0	1571.0	1574.1	1569.5	1563.3	1554.0	1529.7	1528.2	1520.9	1505.4
27.5°	1533.8	1534.9	1538.0	1528.7	1512.2	1499.8	1485.8	1473.9	1478.6	1470.3	1449.2
30°	1494.6	1494.1	1475.5	1467.2	1436.8	1437.3	1433.7	1426.5	1421.8	1422.3	1408.9
32.5°	1438.8	1422.8	1401.7	1391.3	1388.8	1379.5	1372.2	1373.8	1377.4	1364.5	1378.4
35°	1381.5	1348.5	1345.4	1336.6	1328.4	1322.2	1324.7	1314.4	1313.9	1312.4	1198.8
37.5°	1304.6	1288.6	1287.1	1277.8	1272.1	1270.5	1260.7	1262.3	1266.9	1275.2	1022.2
40°	1241.1	1226.7	1223.0	1222.5	1210.1	1209.1	1211.7	1221.5	1228.2	1176.6	974.2
42.5°	1173.0	1174.0	1162.6	1155.4	1157.0	1161.6	1174.0	1139.9	987.6	941.2	890.6
45°	1114.6	1109.5	1103.3	1101.2	1114.6	1105.3	969.0	894.2	876.1	874.0	732.1
47.5°	1053.7	1052.2	1049.6	1051.1	974.7	868.9	837.9	828.1	831.2	829.1	628.8
50°	992.3	994.3	994.3	868.4	797.1	779.6	782.1	790.9	736.2	687.2	586.0
52.5°	939.1	923.1	790.9	745.5	729.5	737.2	718.6	650.0	600.4	571.5	542.1
55°	840.5	722.8	693.4	686.1	691.8	623.1	580.8	536.4	523.5	520.4	503.4
57.5°	661.3	637.6	640.2	611.3	545.7	507.0	489.9	483.7	478.1	473.9	41.3
60°	584.9	591.6	541.6	479.6	453.3	448.1	444.0	438.3	437.3	430.1	26.3
62.5°	535.4	470.8	427.5	412.0	405.8	404.2	396.5	393.9	334.5	45.9	19.6
65°	403.7	377.4	369.1	365.5	358.8	358.8	297.9	47.0	38.2	33.0	17.6
67.5°	329.4	327.3	323.2	318.5	216.8	45.4	39.8	34.6	29.9	26.3	15.5
70°	278.8	277.8	253.0	46.5	38.7	34.1	29.9	26.8	24.8	22.2	13.9
72.5°	228.7	46.5	39.2	34.1	29.4	26.8	24.3	21.7	19.6	18.1	11.4
75°	35.6	31.5	27.9	25.3	23.2	20.7	18.6	17.0	16.5	14.5	7.7
77.5°	25.8	22.2	20.1	18.1	16.0	14.5	12.4	10.8	9.8	8.3	5.7
80°	18.1	16.0	14.5	11.9	10.3	8.8	7.7	6.7	6.2	5.2	2.6
82.5°	10.3	8.8	7.7	6.2	5.7	4.6	4.1	3.6	3.6	2.6	2.6
85°	4.6	4.6	3.6	3.1	2.6	2.6	2.6	2.1	2.1	1.5	1.5
87.5°	2.1	2.1	2.1	2.1	2.1	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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1773.9	1780.6	1793.5	1806.9	1792.0	1845.7	1841.5	1859.6	1869.4	1874.1	1884.9
5°	1931.9	1961.8	1971.6	1942.2	1925.2	1907.6	1867.9	1837.9	1841.5	1831.7	1796.1
7.5°	1928.8	1864.8	1778.5	1739.3	1736.2	1731.6	1744.0	1751.2	1752.2	1751.7	1750.7
10°	1765.6	1732.6	1726.9	1721.8	1723.8	1704.7	1695.9	1671.2	1684.6	1677.4	1679.9
12.5°	1716.1	1708.3	1677.9	1635.5	1660.8	1641.7	1630.9	1638.1	1629.9	1622.1	1619.5
15°	1686.7	1636.6	1619.5	1609.2	1602.0	1597.9	1601.5	1593.2	1590.6	1589.1	1592.7
17.5°	1625.7	1605.6	1587.0	1559.7	1560.2	1558.6	1568.9	1584.4	1585.5	1506.0	1434.2
20°	1577.7	1561.2	1537.5	1520.4	1543.6	1502.3	1342.8	1266.9	1255.1	1255.1	1257.1
22.5°	1539.5	1502.9	1504.4	1477.6	1260.2	1215.8	1216.8	1221.5	1200.3	1128.0	1120.3
25°	1487.4	1481.7	1368.6	1182.8	1184.3	1149.7	1096.6	1021.7	940.6	940.6	927.2
27.5°	1448.1	1327.8	1162.6	1154.9	1038.7	965.4	920.0	851.3	842.0	833.3	834.3
30°	1414.6	1123.4	1127.5	965.4	879.7	818.8	815.2	803.8	798.2	796.6	790.9
32.5°	1118.2	1094.0	943.7	821.9	788.3	778.5	773.9	761.0	760.5	750.7	682.5
35°	1048.5	960.3	789.9	756.9	747.0	737.7	730.0	489.9	57.8	23.2	20.1
37.5°	969.0	802.3	730.5	715.5	706.3	521.9	52.1	18.1	12.9	9.3	8.3
40°	821.4	716.6	693.9	677.3	279.3	18.1	11.4	8.8	5.2	4.6	4.1
42.5°	692.8	675.3	651.0	198.2	20.7	8.8	5.7	4.1	3.6	3.6	3.1
45°	648.4	632.9	262.3	19.6	12.9	4.1	3.6	3.6	3.1	2.1	2.1
47.5°	607.1	534.3	23.7	12.4	8.3	3.6	3.1	2.1	2.1	2.1	1.5
50°	563.3	29.4	16.5	9.3	5.2	2.1	2.1	2.1	2.1	1.5	1.5
52.5°	105.3	20.7	13.4	8.3	2.6	2.1	2.1	2.1	1.5	1.5	1.5
55°	24.8	16.5	12.4	7.2	2.1	2.1	2.1	1.5	1.5	1.5	1.0
57.5°	18.6	12.4	9.8	6.7	2.1	1.5	1.5	1.5	1.5	1.5	1.0
60°	15.5	8.8	7.7	6.2	1.5	1.5	1.5	1.5	1.5	1.5	1.0
62.5°	10.8	7.2	5.7	4.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	8.8	5.7	4.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	7.7	4.6	3.1	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	6.2	1.5	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	5.2	1.5	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	5.2	2.6	1.0	1.0	1.5	1.5	2.1	2.1	1.5	1.5	1.5
77.5°	3.6	2.6	1.0	1.0	1.5	1.5	2.1	2.1	1.5	1.5	1.5
80°	2.1	2.6	1.0	1.5	1.5	3.1	3.6	2.1	1.5	1.5	1.5
82.5°	2.1	2.6	3.1	3.1	1.5	2.6	3.1	2.6	2.1	1.5	1.5
85°	2.1	1.5	2.1	2.6	1.5	2.6	2.6	2.1	2.1	1.5	1.5
87.5°	1.0	1.5	1.5	2.1	2.1	2.1	2.6	2.1	2.1	2.1	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: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1890.1	1892.1	1859.6	1848.2	1858.1	1856.0	1847.2	1814.7	1811.1	1789.4	1757.9
5°	1806.4	1820.4	1803.3	1832.8	1818.8	1832.8	1875.1	1894.7	1926.7	1946.3	1953.6
7.5°	1748.1	1751.2	1751.2	1753.8	1756.3	1756.9	1753.8	1751.7	1742.9	1732.1	1751.7
10°	1677.4	1681.0	1687.2	1686.1	1685.6	1696.5	1699.0	1721.2	1720.2	1724.3	1739.3
12.5°	1640.7	1612.8	1638.1	1631.4	1640.7	1626.2	1653.1	1648.4	1650.0	1662.4	1694.4
15°	1579.8	1588.6	1594.8	1594.8	1598.4	1595.3	1592.2	1613.3	1626.2	1626.8	1624.7
17.5°	1462.6	1396.0	1464.1	1446.6	1586.5	1590.1	1578.2	1568.4	1568.4	1576.2	1592.7
20°	1255.6	1257.1	1257.6	1264.3	1272.6	1272.1	1272.6	1476.0	1572.6	1550.4	1535.4
22.5°	1100.7	1081.6	1117.2	1114.6	1159.0	1208.1	1255.1	1250.4	1253.5	1397.0	1526.1
25°	882.3	907.1	887.0	895.7	945.8	1004.1	1040.3	1134.8	1237.5	1230.3	1263.8
27.5°	830.7	824.0	833.3	833.3	840.0	847.7	867.8	921.0	1012.4	1108.4	1199.3
30°	781.6	787.3	788.3	797.6	802.8	808.0	811.1	831.2	851.8	918.4	1030.5
32.5°	587.0	514.7	677.3	721.2	758.4	767.2	773.4	781.6	796.6	806.4	862.7
35°	17.0	17.0	18.1	20.7	26.3	177.6	676.3	745.5	755.3	767.7	778.0
37.5°	8.3	6.2	7.2	7.7	9.3	12.9	18.6	57.8	643.8	727.9	739.3
40°	3.6	3.6	3.6	3.6	4.1	5.2	7.7	12.9	19.6	517.8	698.5
42.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.6	4.6	9.3	22.2	366.6
45°	2.1	2.1	1.5	2.1	2.1	2.6	3.1	3.1	4.1	13.9	25.3
47.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.6	3.1	9.3	13.4
50°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	7.2	9.3
52.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	8.3
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.1	7.2
57.5°	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.5	1.5	6.7
60°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	6.2
62.5°	1.5	1.5	1.0	1.5	1.0	1.0	1.5	1.5	1.5	1.5	4.1
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	2.1	2.1	1.0	1.0	1.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.6	3.1	2.6	2.6	1.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.6	2.6	2.6	2.6	3.6
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	2.1	2.1	2.6
85°	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	2.1	1.5	2.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	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: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1760.5	1742.9	1737.2	1725.4	1724.3	1725.4	1722.8	1719.2	1721.2	1717.6	1714.5
5°	1957.7	1910.7	1880.3	1839.5	1783.2	1770.8	1767.7	1750.2	1744.0	1741.9	1733.6
7.5°	1798.2	1883.9	1935.5	1953.0	1887.0	1871.5	1853.4	1839.0	1825.0	1798.7	1782.7
10°	1727.4	1731.6	1781.1	1839.0	1932.9	1945.8	1955.6	1924.1	1915.4	1848.2	1833.8
12.5°	1710.9	1711.4	1717.1	1752.2	1826.0	1834.3	1868.9	1887.5	1910.2	1923.1	1912.8
15°	1635.5	1677.4	1708.3	1711.4	1718.1	1732.6	1742.9	1807.5	1834.8	1908.1	1904.0
17.5°	1600.4	1613.9	1658.8	1695.4	1689.2	1684.1	1692.3	1701.1	1727.4	1800.7	1799.7
20°	1542.1	1584.9	1609.2	1647.4	1682.0	1683.6	1674.3	1669.1	1658.8	1670.6	1681.5
22.5°	1517.3	1524.0	1569.5	1596.3	1635.5	1649.5	1651.5	1652.1	1646.4	1640.2	1637.1
25°	1514.7	1493.6	1516.8	1550.4	1579.3	1594.2	1611.3	1617.0	1614.9	1614.9	1611.8
27.5°	1239.6	1486.9	1474.5	1496.7	1531.8	1542.1	1550.9	1568.4	1579.3	1587.0	1590.6
30°	1180.7	1225.1	1441.4	1444.5	1480.1	1479.1	1488.9	1503.4	1517.3	1535.4	1540.0
32.5°	1044.4	1153.3	1319.6	1392.4	1429.6	1433.2	1438.3	1442.5	1455.4	1475.5	1493.1
35°	836.9	1050.6	1130.6	1367.6	1374.3	1381.5	1384.6	1394.4	1398.6	1406.8	1422.3
37.5°	757.4	868.4	1084.7	1182.8	1310.8	1317.0	1333.5	1337.7	1344.4	1351.1	1363.0
40°	711.4	741.9	903.0	1056.3	1259.7	1263.8	1269.5	1279.8	1280.3	1288.1	1298.9
42.5°	674.8	694.4	741.4	1008.8	1223.6	1223.0	1209.6	1216.3	1219.4	1227.7	1242.7
45°	539.0	651.5	681.5	824.0	974.2	1044.4	1179.2	1157.0	1156.4	1159.5	1175.5
47.5°	27.4	612.8	634.0	679.9	920.0	922.6	940.1	1087.8	1110.5	1103.3	1104.8
50°	18.6	42.3	590.6	611.8	793.0	857.0	869.9	876.6	961.8	1056.8	1041.3
52.5°	14.5	24.3	361.9	567.9	644.3	691.3	774.4	821.9	827.1	865.3	994.9
55°	12.9	18.6	39.2	524.0	547.8	558.1	606.6	689.7	756.9	777.0	778.5
57.5°	11.4	17.0	26.8	237.0	498.2	500.3	508.5	537.4	597.8	653.1	715.5
60°	10.3	15.0	21.2	40.8	452.8	457.9	459.5	467.2	474.5	512.1	583.9
62.5°	6.2	11.9	18.6	29.4	358.3	411.5	411.0	416.1	422.8	427.0	441.4
65°	5.2	9.3	16.0	24.8	43.9	54.7	332.5	369.6	373.8	379.5	382.0
67.5°	4.6	8.3	11.9	19.6	33.0	37.7	43.4	53.7	293.2	330.4	335.6
70°	4.1	5.7	9.8	16.5	26.8	28.9	32.5	37.2	43.9	54.2	265.4
72.5°	2.6	4.1	6.7	11.9	20.7	23.2	25.3	28.4	31.5	37.7	43.4
75°	1.0	3.1	5.7	8.8	16.0	17.6	19.1	21.2	23.7	27.9	31.0
77.5°	1.0	2.6	4.6	6.2	10.3	11.9	13.9	15.5	17.6	19.6	22.7
80°	3.6	2.1	3.1	4.6	7.2	7.7	8.8	9.8	11.4	12.9	15.0
82.5°	2.6	3.1	3.6	3.1	3.6	4.6	5.2	6.2	6.7	7.7	8.3
85°	2.1	2.1	2.6	2.6	2.6	2.6	2.6	2.6	3.1	3.6	4.6
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1714.5	1713.5	1710.4	1710.4	1709.9	1711.9	1713.5	1715.0	1714.5	1717.6	1714.5
5°	1727.4	1724.9	1720.2	1716.1	1714.5	1715.6	1714.0	1715.6	1713.5	1716.1	1711.4
7.5°	1763.1	1754.3	1736.2	1729.0	1719.7	1719.2	1714.5	1713.5	1710.4	1710.4	1704.7
10°	1826.0	1783.7	1778.5	1756.9	1749.1	1711.4	1719.7	1705.8	1704.2	1697.5	1694.9
12.5°	1877.7	1844.6	1834.8	1815.7	1794.0	1717.6	1734.7	1704.7	1703.2	1689.8	1675.8
15°	1878.7	1897.8	1871.0	1818.3	1813.7	1761.0	1726.4	1716.1	1702.7	1662.4	1669.1
17.5°	1818.3	1862.2	1875.1	1863.7	1830.7	1795.1	1746.5	1725.9	1685.6	1667.6	1655.2
20°	1720.2	1764.6	1819.9	1823.5	1844.1	1818.8	1755.3	1721.8	1673.2	1641.7	1631.4
22.5°	1642.3	1674.8	1738.3	1767.7	1793.0	1801.8	1761.5	1711.9	1651.5	1621.1	1614.9
25°	1601.0	1608.2	1627.3	1661.9	1717.6	1757.9	1763.6	1710.9	1679.4	1612.8	1577.7
27.5°	1586.0	1579.8	1572.0	1589.6	1631.4	1680.5	1713.0	1721.8	1643.3	1579.8	1544.7
30°	1547.8	1551.4	1539.5	1533.3	1560.7	1611.3	1669.1	1683.6	1623.2	1557.6	1517.3
32.5°	1500.8	1507.0	1509.1	1498.2	1492.5	1527.6	1590.1	1624.7	1621.6	1526.1	1481.2
35°	1441.9	1459.5	1464.1	1464.7	1455.4	1449.7	1485.8	1557.6	1584.9	1511.6	1446.6
37.5°	1380.0	1385.2	1410.4	1417.2	1417.2	1400.1	1427.0	1484.3	1522.5	1479.1	1404.3
40°	1302.5	1319.1	1342.8	1354.7	1366.6	1368.1	1353.1	1393.4	1456.4	1445.6	1364.5
42.5°	1246.3	1257.1	1271.6	1287.6	1311.8	1318.0	1302.5	1309.8	1375.3	1403.7	1312.9
45°	1180.7	1195.2	1199.3	1216.8	1242.1	1260.2	1259.7	1244.7	1297.4	1332.5	1275.2
47.5°	1113.6	1127.5	1134.8	1143.5	1162.1	1185.4	1198.3	1191.6	1201.9	1270.5	1225.1
50°	1044.4	1052.2	1066.6	1076.4	1088.8	1102.2	1133.2	1139.4	1125.0	1179.7	1169.9
52.5°	978.8	981.4	991.2	1001.0	1017.6	1027.4	1052.2	1070.7	1069.7	1085.7	1108.4
55°	927.7	916.4	918.4	926.2	937.0	952.0	965.9	994.9	1004.7	1007.8	1043.9
57.5°	724.8	841.5	851.8	851.3	864.2	870.9	883.9	903.0	938.1	930.3	970.6
60°	658.8	671.7	769.2	780.6	785.2	791.4	806.9	824.5	850.3	866.8	884.4
62.5°	502.3	580.8	610.2	696.4	709.9	713.5	723.8	732.1	758.9	796.6	789.4
65°	388.8	422.3	512.1	547.2	620.6	629.8	644.3	653.1	660.8	704.2	706.3
67.5°	336.1	341.3	365.5	433.2	479.6	551.4	560.2	567.9	579.8	610.7	629.8
70°	287.0	293.2	300.0	305.6	366.0	413.5	480.1	482.7	490.5	511.1	554.5
72.5°	54.2	245.2	249.4	253.0	259.7	291.2	354.7	406.3	409.4	419.2	459.0
75°	36.7	42.9	58.9	202.4	209.1	211.2	222.0	286.5	334.0	336.1	353.6
77.5°	26.3	29.4	35.6	42.3	107.9	162.1	164.7	176.6	225.6	261.2	264.3
80°	18.1	20.1	23.7	26.8	33.0	43.4	119.8	123.4	129.6	178.6	187.9
82.5°	10.3	11.9	13.9	17.0	19.6	24.8	32.0	41.3	84.2	89.8	119.3
85°	5.2	5.7	6.7	8.3	9.8	11.9	16.0	19.6	26.8	48.5	50.1
87.5°	2.6	2.6	2.6	2.6	4.1	4.6	5.7	7.2	9.3	13.9	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-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1715.0	1722.3	1728.5	1730.0	1730.0	1731.1	1732.6	1733.6	1734.7	1735.7	1734.7
5°	1711.9	1719.7	1724.9	1726.4	1726.4	1729.5	1732.1	1735.2	1736.7	1736.7	1735.7
7.5°	1704.2	1709.9	1716.6	1720.7	1721.2	1726.4	1731.1	1730.5	1732.6	1733.6	1736.2
10°	1693.9	1693.9	1705.2	1708.3	1710.9	1716.6	1718.1	1721.2	1728.5	1729.5	1736.2
12.5°	1688.7	1683.6	1697.0	1698.5	1707.3	1700.1	1709.4	1712.5	1705.2	1715.0	1702.1
15°	1665.5	1671.7	1669.6	1674.3	1689.8	1681.5	1706.8	1698.5	1717.1	1694.9	1734.1
17.5°	1646.4	1645.4	1653.6	1657.7	1660.8	1678.4	1685.1	1694.4	1701.6	1695.4	1710.9
20°	1632.4	1624.2	1630.4	1635.0	1645.9	1659.3	1663.4	1649.5	1673.7	1715.0	1724.9
22.5°	1606.1	1600.4	1607.7	1607.7	1624.2	1622.1	1637.6	1628.8	1651.5	1699.6	1749.6
25°	1570.5	1571.0	1578.8	1588.0	1591.1	1614.4	1622.6	1634.0	1662.4	1719.7	1750.2
27.5°	1534.4	1531.3	1535.9	1555.0	1571.0	1588.0	1590.6	1629.3	1668.1	1707.3	1734.1
30°	1498.2	1495.1	1498.2	1512.2	1531.3	1542.6	1571.0	1622.6	1658.8	1685.6	1710.9
32.5°	1459.5	1456.4	1463.6	1473.9	1507.5	1509.1	1565.3	1613.9	1642.3	1661.9	1657.2
35°	1418.2	1414.1	1420.8	1436.8	1467.8	1479.1	1538.0	1574.1	1606.1	1615.4	1593.7
37.5°	1368.6	1361.4	1369.7	1391.9	1424.4	1457.4	1506.5	1548.3	1565.3	1540.5	1514.7
40°	1317.0	1311.8	1326.3	1337.7	1375.9	1421.8	1478.1	1507.5	1496.7	1468.3	1439.9
42.5°	1271.1	1260.2	1273.1	1294.8	1338.2	1390.3	1435.7	1452.3	1426.5	1384.6	1351.6
45°	1214.8	1201.9	1217.4	1246.3	1292.7	1352.1	1387.7	1382.1	1338.2	1302.0	1256.6
47.5°	1155.9	1140.4	1155.9	1190.5	1242.7	1305.6	1331.5	1305.6	1250.4	1205.0	1168.3
50°	1098.1	1080.0	1095.0	1147.2	1198.3	1246.8	1246.3	1196.2	1163.2	1113.6	1081.6
52.5°	1040.8	1015.0	1030.0	1086.7	1137.9	1193.1	1152.3	1105.8	1066.1	1022.7	1012.4
55°	970.1	942.2	962.3	1044.9	1084.2	1116.7	1051.6	1010.9	971.6	949.9	937.0
57.5°	903.0	872.5	890.0	987.6	1016.5	1024.8	964.9	907.1	883.9	876.6	858.0
60°	833.8	799.2	815.7	928.3	948.4	914.8	856.0	811.1	806.4	792.0	777.5
62.5°	767.7	729.5	739.8	854.4	863.7	802.8	748.6	736.7	725.4	710.9	703.2
65°	691.8	652.0	666.5	776.0	767.2	688.7	658.2	655.7	640.7	628.8	640.2
67.5°	622.1	575.1	595.3	690.3	650.5	586.5	574.1	567.9	556.0	562.7	443.5
70°	545.7	494.6	521.9	597.8	539.0	496.7	492.0	482.7	483.2	384.1	323.7
72.5°	460.5	416.1	455.9	496.7	426.4	414.0	407.3	406.3	327.8	266.4	251.4
75°	385.7	340.7	383.6	399.1	339.7	331.4	330.9	273.6	215.3	205.5	200.8
77.5°	301.0	266.4	307.2	283.9	260.7	251.4	225.6	169.3	162.1	155.4	58.3
80°	202.9	205.5	229.2	195.7	185.9	158.5	124.9	119.8	103.3	41.3	32.5
82.5°	123.4	154.9	146.1	122.4	119.8	86.2	79.0	40.3	29.9	23.7	20.7
85°	64.0	78.5	75.4	66.6	49.6	44.4	24.8	19.1	15.5	11.9	9.8
87.5°	21.7	28.9	27.9	22.2	17.0	13.4	8.8	7.2	5.2	4.1	3.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1733.6	1733.6	1732.6	1733.6	1734.1	1733.1	1733.1	1734.1	1734.7	1735.2	1737.8
5°	1736.2	1737.2	1738.8	1741.9	1742.4	1748.6	1751.2	1752.7	1754.3	1754.8	1751.2
7.5°	1741.9	1745.5	1748.6	1748.1	1744.5	1734.7	1731.6	1729.0	1733.6	1745.5	1759.4
10°	1747.1	1730.5	1699.6	1741.9	1729.0	1740.9	1776.0	1783.7	1807.5	1841.0	1850.8
12.5°	1711.4	1756.9	1766.7	1719.2	1806.9	1774.4	1813.1	1847.2	1857.0	1891.1	1870.4
15°	1749.6	1771.8	1786.8	1834.3	1829.1	1857.0	1867.9	1861.2	1862.7	1871.5	1894.7
17.5°	1749.1	1793.5	1803.3	1835.3	1857.0	1857.5	1854.4	1851.3	1859.6	1866.3	1852.4
20°	1779.1	1793.5	1812.6	1825.5	1829.7	1834.8	1844.6	1836.9	1821.4	1806.4	1800.2
22.5°	1764.1	1796.6	1813.1	1815.2	1812.6	1796.6	1782.2	1760.5	1753.3	1745.5	1748.1
25°	1767.2	1782.2	1780.1	1771.8	1761.0	1731.1	1723.8	1714.5	1700.6	1667.0	1636.6
27.5°	1745.0	1737.2	1728.0	1707.8	1688.2	1672.2	1654.1	1624.2	1599.4	1563.3	1549.8
30°	1707.8	1676.8	1654.1	1642.3	1623.2	1596.3	1568.9	1532.3	1500.8	1493.6	1486.9
32.5°	1636.6	1606.1	1587.5	1558.6	1526.1	1494.1	1462.6	1448.1	1441.4	1442.5	1436.3
35°	1563.8	1536.9	1509.1	1465.7	1441.4	1409.4	1398.1	1395.0	1388.8	1382.1	1374.8
37.5°	1486.3	1454.8	1413.0	1387.2	1363.0	1350.0	1344.4	1339.7	1328.9	1317.0	1308.7
40°	1411.5	1354.7	1331.5	1306.2	1298.9	1293.3	1285.0	1273.6	1258.7	1256.6	1253.0
42.5°	1311.3	1270.5	1250.4	1245.2	1236.5	1226.7	1219.4	1207.0	1200.8	1205.0	1208.1
45°	1216.3	1195.7	1189.0	1182.8	1166.3	1152.3	1147.7	1143.5	1148.7	1171.4	1117.2
47.5°	1139.4	1131.1	1122.9	1112.6	1097.1	1086.7	1091.4	1095.5	1100.2	933.4	851.8
50°	1072.8	1061.5	1048.5	1037.2	1027.9	1026.9	1051.1	978.3	819.3	815.2	732.6
52.5°	1000.0	983.0	975.2	968.5	972.7	988.1	817.8	758.9	727.9	632.4	590.1
55°	921.5	906.6	906.6	912.8	890.6	721.7	713.0	616.4	558.1	541.6	534.9
57.5°	843.1	841.5	850.3	777.5	655.1	628.3	528.1	507.0	497.7	495.6	484.8
60°	771.3	785.8	657.7	605.1	526.1	474.5	460.0	457.4	447.6	444.0	434.2
62.5°	714.0	592.2	551.4	450.2	423.9	417.1	409.4	405.8	397.0	350.5	102.7
65°	515.8	487.4	395.5	378.4	376.4	366.6	363.5	326.8	76.9	51.6	43.9
67.5°	389.3	345.4	333.5	330.4	320.6	301.0	89.3	51.1	43.9	38.2	33.6
70°	298.9	291.2	282.4	275.2	81.1	50.6	43.9	37.2	32.0	28.4	25.8
72.5°	244.7	239.5	139.4	53.2	43.4	36.7	32.5	28.4	24.8	22.7	20.7
75°	191.5	53.2	43.9	36.7	31.5	26.8	23.7	21.2	19.1	17.6	16.0
77.5°	43.4	35.1	29.9	25.3	22.7	20.1	18.1	15.5	13.9	12.4	10.3
80°	26.8	23.2	19.6	18.1	15.5	12.9	11.4	10.3	8.3	7.7	6.7
82.5°	17.6	13.9	12.4	10.3	8.3	7.7	6.7	5.2	4.6	4.1	3.6
85°	7.7	6.7	5.7	4.6	3.6	3.1	2.6	2.1	2.1	2.1	2.1
87.5°	2.6	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: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1738.8	1748.1	1756.9	1754.3	1745.0	1730.5	1726.4	1720.7	1724.9	1733.6	1737.2
5°	1751.2	1746.0	1764.6	1792.0	1836.4	1840.5	1871.5	1878.7	1903.5	1919.0	1918.5
7.5°	1768.7	1842.0	1872.5	1905.6	1920.5	1916.9	1921.6	1917.9	1912.3	1909.7	1906.6
10°	1858.1	1913.8	1925.2	1925.2	1901.9	1870.4	1857.0	1833.8	1787.3	1788.4	1780.6
12.5°	1910.2	1929.8	1903.0	1880.3	1786.8	1750.7	1711.4	1692.8	1682.0	1665.5	1671.7
15°	1882.8	1855.0	1839.0	1765.6	1708.3	1643.3	1644.3	1633.0	1621.1	1622.1	1614.4
17.5°	1842.6	1820.4	1706.8	1656.2	1628.3	1603.0	1598.4	1583.4	1575.7	1573.1	1572.6
20°	1787.3	1707.3	1622.6	1610.2	1576.7	1547.8	1543.1	1547.8	1571.5	1529.2	1385.7
22.5°	1722.8	1607.7	1582.9	1547.8	1525.1	1513.7	1542.1	1413.0	1217.9	1241.6	1216.3
25°	1613.3	1563.3	1520.9	1494.1	1491.5	1421.8	1184.8	1160.1	1034.6	967.5	892.1
27.5°	1533.3	1511.6	1467.2	1462.6	1429.0	1162.6	1039.3	903.0	852.9	845.1	828.6
30°	1484.8	1453.8	1427.0	1309.8	1140.4	936.0	833.8	814.7	805.9	796.6	782.1
32.5°	1426.5	1397.0	1409.9	1101.2	909.2	805.9	785.2	771.3	755.3	749.1	697.0
35°	1367.1	1353.7	1101.7	925.7	781.6	756.9	741.4	726.9	578.2	139.9	47.5
37.5°	1303.6	1300.5	990.2	768.2	732.1	708.8	665.0	137.3	32.5	22.2	16.5
40°	1254.0	990.7	782.7	720.2	690.8	654.1	91.9	22.7	14.5	8.8	5.7
42.5°	1221.0	891.1	700.6	675.8	611.8	67.6	23.2	9.8	5.7	4.6	3.6
45°	941.2	703.7	654.6	628.8	77.4	23.2	13.4	4.6	3.6	3.1	2.1
47.5°	868.4	639.1	610.2	137.3	25.8	12.4	9.3	3.1	2.1	2.1	2.1
50°	657.7	590.6	485.8	33.6	16.5	8.8	6.7	2.1	2.1	2.1	1.5
52.5°	576.7	545.2	52.1	22.2	12.9	6.7	4.1	1.5	1.5	1.5	1.5
55°	527.1	345.9	31.0	17.0	10.8	6.2	2.6	1.5	1.5	1.5	1.0
57.5°	482.2	46.5	22.7	14.5	9.8	5.7	1.5	1.5	1.5	1.5	1.0
60°	408.9	33.6	18.6	12.9	9.3	5.2	1.5	1.5	1.5	1.5	1.5
62.5°	53.2	26.3	16.0	11.4	6.7	4.1	1.0	1.5	1.5	1.5	1.5
65°	38.7	20.7	14.5	7.7	4.1	1.5	1.0	1.5	1.5	1.5	1.5
67.5°	29.9	17.0	10.8	6.7	3.6	1.0	1.0	1.5	1.5	1.5	1.5
70°	23.7	14.5	8.8	5.7	3.1	1.0	1.0	1.5	1.5	1.5	1.5
72.5°	18.6	10.3	6.2	3.1	2.1	1.0	1.0	1.5	1.5	1.5	1.5
75°	13.9	8.3	4.6	2.6	1.0	1.0	1.0	1.5	1.5	1.5	1.5
77.5°	9.3	5.2	3.6	2.1	2.1	2.1	2.6	2.6	1.5	1.5	1.5
80°	6.2	3.6	2.6	2.6	2.6	2.1	2.6	2.6	1.5	2.6	1.5
82.5°	3.1	2.6	2.6	2.1	2.1	1.5	2.1	2.1	2.1	2.1	1.5
85°	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	1.5
87.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	2.1	2.1	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: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1732.6	1734.1	1730.0	1752.2	1740.9	1741.9	1746.5	1734.7	1737.2	1729.0	1723.3
5°	1920.5	1923.6	1926.7	1927.8	1929.8	1932.4	1929.3	1927.8	1924.7	1914.3	1903.5
7.5°	1891.1	1887.5	1885.9	1888.0	1891.6	1893.2	1890.6	1894.2	1907.6	1913.3	1916.9
10°	1736.2	1719.7	1731.1	1729.5	1716.6	1760.0	1748.1	1754.8	1759.4	1806.9	1835.9
12.5°	1662.4	1672.7	1653.1	1643.3	1656.2	1665.0	1673.7	1655.2	1681.0	1669.1	1707.3
15°	1600.4	1594.2	1592.2	1592.7	1590.1	1602.5	1605.6	1609.7	1613.3	1629.3	1635.5
17.5°	1572.6	1582.9	1587.0	1590.1	1584.9	1579.3	1573.6	1565.3	1567.9	1563.8	1575.7
20°	1289.1	1254.5	1252.5	1272.6	1250.4	1262.8	1292.7	1493.1	1486.3	1564.3	1538.0
22.5°	1075.9	1043.4	1015.5	991.2	1025.8	1040.3	1096.0	1159.0	1261.2	1245.2	1356.2
25°	878.7	866.8	859.6	856.0	858.6	857.5	869.9	899.3	945.8	1055.3	1196.7
27.5°	821.9	816.2	813.6	805.4	811.6	809.5	819.3	825.5	839.5	850.3	896.2
30°	777.0	770.3	765.6	756.9	763.0	763.6	766.7	782.7	788.3	797.6	812.1
32.5°	283.9	167.3	156.9	149.2	163.1	212.7	373.3	652.6	744.5	751.7	768.2
35°	27.9	23.2	20.7	20.7	21.2	23.2	31.0	81.6	149.2	576.7	721.7
37.5°	10.8	9.3	7.7	7.2	7.7	8.8	11.9	15.5	21.2	43.9	195.7
40°	4.6	4.1	3.6	3.6	3.6	3.6	4.1	5.2	7.7	14.5	22.7
42.5°	3.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.6	4.6	9.3
45°	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.6	4.1
47.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1
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	3.1	3.1	2.1
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.6	3.1	2.6
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.6	2.6	2.6
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	2.1
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	2.1
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: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1713.5	1713.0	1723.8	1732.1	1729.0	1732.1	1735.7	1736.2	1737.2	1733.1	1731.6
5°	1882.8	1866.8	1835.9	1813.7	1787.8	1740.9	1717.6	1720.2	1720.7	1719.2	1721.2
7.5°	1915.4	1913.8	1903.0	1898.3	1880.8	1847.2	1793.5	1784.2	1761.5	1747.1	1735.2
10°	1833.8	1871.0	1880.8	1897.3	1907.6	1901.4	1856.0	1849.3	1834.8	1818.3	1821.9
12.5°	1745.5	1776.0	1777.5	1867.3	1887.5	1889.5	1872.0	1881.3	1883.4	1846.2	1824.5
15°	1637.1	1651.5	1682.0	1765.6	1826.6	1864.8	1876.1	1881.3	1856.0	1854.4	1845.7
17.5°	1589.6	1598.9	1612.8	1659.8	1752.2	1808.5	1856.5	1852.9	1862.7	1855.5	1833.3
20°	1529.7	1537.5	1562.2	1586.0	1631.4	1706.3	1796.1	1802.8	1815.7	1814.2	1820.4
22.5°	1528.7	1501.3	1505.4	1524.0	1571.5	1638.6	1734.1	1756.3	1764.6	1770.3	1777.0
25°	1212.7	1430.1	1469.8	1481.7	1512.7	1551.9	1664.5	1672.7	1688.2	1713.5	1732.1
27.5°	1050.6	1198.3	1357.3	1439.9	1459.5	1492.0	1559.1	1571.5	1624.2	1630.4	1659.3
30°	829.1	943.2	1180.7	1379.5	1412.0	1434.7	1482.2	1507.0	1529.7	1554.5	1584.9
32.5°	780.1	798.2	929.8	1141.5	1394.4	1377.4	1412.5	1427.5	1452.3	1473.9	1496.1
35°	735.2	747.6	775.4	935.0	1135.8	1330.4	1354.2	1364.0	1377.9	1394.4	1410.4
37.5°	688.2	706.8	725.9	768.7	1050.6	1293.3	1292.7	1304.1	1312.4	1326.3	1339.7
40°	124.9	649.0	679.9	707.8	814.7	1031.5	1234.9	1240.1	1245.8	1254.5	1268.5
42.5°	20.1	108.4	637.1	663.9	694.4	923.6	1208.6	1187.4	1183.8	1190.0	1202.4
45°	10.3	26.3	128.0	620.0	647.4	736.7	988.1	1150.8	1147.2	1135.3	1137.9
47.5°	7.7	16.5	31.5	214.3	606.1	632.4	911.7	901.9	970.6	1102.2	1082.1
50°	6.7	11.4	18.6	43.9	535.4	582.4	702.1	820.4	856.5	861.1	1019.1
52.5°	6.2	7.7	13.4	28.4	112.5	538.5	571.0	612.3	673.2	803.8	800.7
55°	5.7	7.2	11.4	19.1	39.2	485.3	518.9	526.6	539.5	602.0	684.6
57.5°	3.1	6.7	10.8	16.5	29.4	88.8	470.8	477.0	487.4	489.9	519.4
60°	1.5	6.2	9.8	14.5	21.7	41.3	423.3	430.6	436.8	437.8	447.1
62.5°	1.0	5.7	8.3	13.4	18.1	29.4	100.2	204.4	388.8	388.8	399.6
65°	1.0	4.1	5.2	8.8	16.5	24.3	42.3	49.0	95.5	234.9	350.5
67.5°	1.0	1.5	4.6	7.2	12.4	18.6	31.0	36.1	43.4	49.6	91.9
70°	1.0	1.0	4.1	4.6	7.7	13.9	22.2	25.3	29.4	33.6	38.7
72.5°	1.0	1.0	3.6	3.6	5.2	9.3	17.0	18.6	21.2	23.7	27.4
75°	2.6	2.1	3.1	3.1	3.6	7.2	12.9	14.5	15.5	17.6	20.1
77.5°	2.6	2.6	2.6	2.6	2.6	4.6	8.3	9.3	10.8	11.9	13.9
80°	2.1	2.1	2.1	2.6	2.6	3.1	5.2	5.7	6.2	7.7	8.3
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.6	4.6
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	2.1	2.1
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: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1731.1	1728.0	1725.4	1726.9	1722.3	1720.2	1721.8	1722.3	1723.3	1725.9	1726.4
5°	1726.4	1725.4	1730.0	1732.6	1731.6	1732.6	1732.6	1730.5	1727.4	1729.5	1724.9
7.5°	1723.3	1716.6	1711.4	1712.5	1707.3	1713.5	1719.2	1727.4	1730.0	1730.0	1724.9
10°	1776.5	1769.3	1740.3	1720.7	1707.8	1696.5	1723.3	1695.9	1708.9	1659.8	1716.1
12.5°	1820.4	1830.2	1817.3	1763.6	1754.3	1720.2	1739.8	1706.3	1696.5	1640.2	1658.3
15°	1837.9	1819.3	1815.2	1800.2	1780.1	1770.3	1717.6	1711.9	1695.9	1702.1	1678.4
17.5°	1822.4	1831.7	1819.3	1809.5	1788.9	1765.6	1734.1	1706.3	1684.1	1634.5	1676.3
20°	1807.5	1819.9	1782.7	1788.9	1790.9	1764.1	1747.6	1724.3	1696.5	1650.0	1613.9
22.5°	1782.7	1773.9	1777.0	1767.7	1760.0	1763.6	1740.9	1724.9	1677.9	1656.7	1607.7
25°	1742.4	1739.3	1747.6	1746.5	1728.0	1721.8	1710.4	1693.4	1674.8	1640.7	1600.4
27.5°	1676.8	1692.8	1707.3	1714.0	1704.2	1687.7	1681.5	1671.7	1658.8	1624.2	1594.2
30°	1607.7	1625.7	1642.3	1656.7	1665.5	1658.3	1652.6	1646.9	1627.3	1604.6	1571.0
32.5°	1528.7	1552.4	1575.1	1592.7	1611.8	1617.5	1613.3	1608.7	1592.2	1571.5	1544.7
35°	1437.3	1469.8	1502.9	1534.4	1542.6	1556.0	1569.5	1561.7	1552.9	1532.3	1507.5
37.5°	1359.9	1383.1	1406.8	1446.6	1475.5	1492.5	1516.3	1519.4	1504.4	1494.6	1462.1
40°	1279.8	1301.0	1335.6	1358.8	1398.6	1418.2	1443.5	1454.8	1451.2	1445.6	1417.2
42.5°	1216.8	1227.2	1249.9	1270.5	1309.8	1350.0	1372.2	1384.6	1397.5	1392.9	1378.4
45°	1149.7	1159.0	1166.8	1184.8	1223.0	1258.7	1286.0	1304.6	1327.8	1338.7	1321.1
47.5°	1083.1	1085.7	1095.0	1110.0	1132.7	1160.1	1206.0	1233.9	1255.6	1276.7	1265.4
50°	1032.0	1022.7	1024.3	1033.6	1052.2	1079.0	1112.0	1151.3	1176.1	1201.9	1204.5
52.5°	901.9	977.3	959.2	964.4	974.2	987.1	1021.7	1060.4	1090.9	1113.1	1135.3
55°	756.9	771.8	916.9	896.2	902.4	913.8	929.8	968.5	997.9	1028.9	1059.9
57.5°	587.0	698.5	704.2	838.4	835.3	836.4	849.8	872.0	901.4	940.1	966.5
60°	456.4	503.4	594.7	641.2	758.9	763.0	770.8	783.7	809.0	845.6	887.5
62.5°	402.7	408.9	441.4	511.1	587.5	679.9	696.4	698.5	709.9	746.5	795.1
65°	353.6	357.8	367.6	374.8	438.8	528.1	607.6	620.6	627.8	649.5	690.8
67.5°	243.7	308.2	317.0	322.2	328.3	369.6	468.3	533.8	542.1	561.2	597.3
70°	47.0	97.6	266.9	272.6	275.7	285.0	301.0	405.3	460.0	478.1	494.6
72.5°	32.0	37.7	45.4	107.4	227.2	232.3	235.9	249.4	341.8	394.4	403.2
75°	23.2	25.8	30.5	37.7	46.5	151.3	187.4	194.1	200.8	277.2	321.6
77.5°	16.5	18.6	20.7	24.3	28.4	36.7	52.7	145.1	151.8	155.4	219.4
80°	9.3	11.4	13.9	16.0	18.1	20.7	26.8	33.6	74.9	109.4	115.1
82.5°	5.2	6.2	7.2	8.8	9.8	12.4	15.0	18.1	23.7	35.1	74.3
85°	2.6	2.6	2.6	3.6	4.1	5.7	6.7	7.7	10.8	15.0	20.7
87.5°	1.5	1.5	2.1	2.1	2.1	2.6	2.6	2.6	3.1	4.6	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1726.9	1725.4	1725.4	1731.6	1730.0
5°	1723.8	1722.3	1721.8	1728.5	1725.4
7.5°	1721.2	1715.6	1714.0	1720.2	1717.6
10°	1710.9	1706.8	1709.4	1707.3	1706.3
12.5°	1693.4	1690.8	1679.9	1681.0	1689.8
15°	1661.9	1672.2	1653.6	1670.1	1673.7
17.5°	1604.0	1627.3	1645.4	1655.2	1656.7
20°	1629.9	1637.6	1628.3	1628.8	1635.0
22.5°	1596.3	1599.9	1602.5	1599.4	1612.8
25°	1542.6	1528.7	1558.6	1564.8	1586.5
27.5°	1526.1	1514.7	1528.7	1527.6	1545.7
30°	1512.7	1476.0	1482.2	1492.0	1514.2
32.5°	1493.6	1435.7	1429.6	1451.2	1476.0
35°	1460.0	1405.3	1390.8	1404.8	1441.9
37.5°	1431.6	1363.0	1334.0	1352.6	1401.2
40°	1389.3	1329.9	1285.0	1301.5	1358.8
42.5°	1338.7	1301.5	1232.3	1243.7	1309.3
45°	1287.6	1254.5	1181.2	1186.9	1264.9
47.5°	1235.4	1205.0	1128.0	1129.1	1208.1
50°	1184.3	1144.1	1080.6	1062.5	1147.7
52.5°	1117.7	1080.6	1032.5	1003.1	1090.4
55°	1054.7	1012.9	977.8	932.4	1025.3
57.5°	993.3	946.8	923.1	864.8	951.5
60°	909.2	887.0	851.8	796.1	884.9
62.5°	822.9	815.7	780.1	722.3	802.8
65°	722.3	739.3	702.6	653.1	717.6
67.5°	627.3	657.7	617.5	587.0	635.5
70°	526.1	561.2	538.5	527.6	548.3
72.5°	426.4	460.5	462.6	454.8	461.5
75°	329.4	367.1	387.7	375.8	377.4
77.5°	249.9	267.9	290.7	300.0	297.9
80°	154.4	185.9	204.4	223.5	216.8
82.5°	78.0	104.3	127.0	147.7	137.8
85°	32.5	41.8	58.3	76.9	73.8
87.5°	9.8	16.5	17.6	24.8	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)