

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: **2SNLED-LD5-40HL-RW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

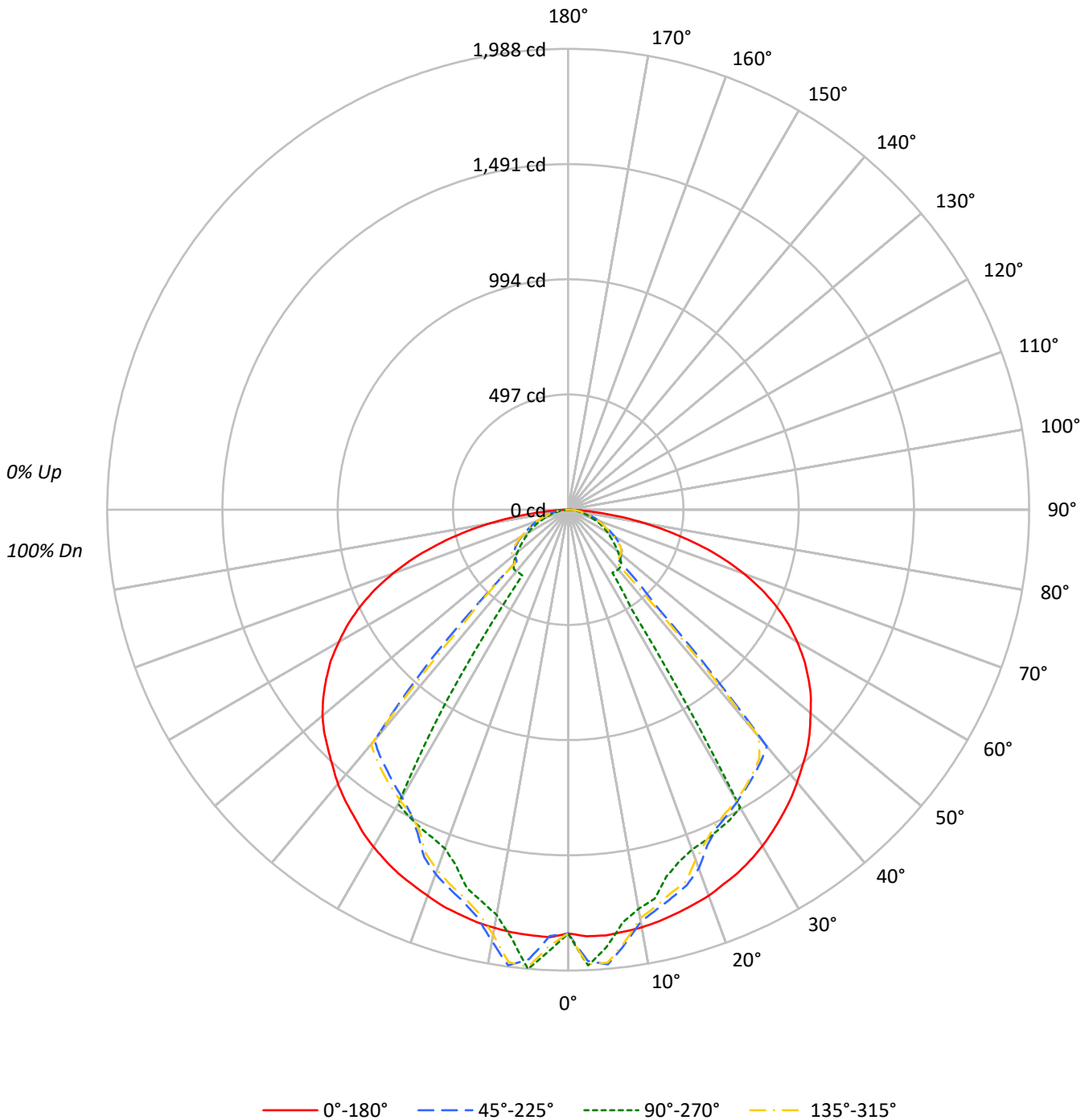
Lumens per Lamp: N/A
Luminaire Lumens: 3660.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#
CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89					87				
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77					75				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67					65				
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59					57				
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53					51				
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47					46				
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43					41				
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39					37				
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36					34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29539	29539	29539	29539
5°	29747	29762	29735	31235
10°	29696	26908	29736	27320
15°	29678	24896	29747	25686
20°	29806	23613	29806	23524
25°	29972	23162	30015	22945
30°	30176	22753	30250	22484
35°	30417	5182	30479	5404
40°	30780	5389	30964	5564
45°	31371	5359	31479	5554
50°	31930	4845	32361	4977
55°	32698	4302	32957	4364
60°	33250	3824	33323	3873
65°	33473	3337	33389	3284
70°	32497	2689	32397	2591
75°	29479	2070	29687	1982
80°	22965	1469	23886	1345
85°	11325	880	11963	676



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	4.9
10°-20°	494.4	13.5
20°-30°	732.4	20.0
30°-40°	737.9	20.2
40°-50°	576.4	15.7
50°-60°	445.2	12.2
60°-70°	298.9	8.2
70°-80°	152.5	4.2
80°-90°	42.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1406.6	38.4
0°-40°	2144.5	58.6
0°-60°	3166.2	86.5
0°-90°	3660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3660.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1828	1828	1828	1828	1828	
5°	1844	1895	1843	1988	1844	175
15°	1803	1638	1808	1690	1803	510
25°	1730	1526	1732	1512	1730	798
35°	1609	332	1612	346	1609	1008
45°	1458	322	1463	334	1458	1125
55°	1264	234	1274	238	1264	1129
65°	993	158	990	155	993	976
75°	582	80	586	76	582	609
85°	105	25	111	19	105	144
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1841.9	1848.7	1853.7	1857.0	1858.7	1858.7	1859.5	1860.4	1871.3	1876.3	1879.6
5°	1843.6	1850.3	1860.4	1873.8	1885.5	1895.6	1903.9	1915.7	1927.4	1940.0	1944.1
7.5°	1836.1	1844.5	1864.6	1888.9	1911.5	1927.4	1938.3	1945.8	1951.7	1952.5	1956.7
10°	1829.4	1844.5	1872.1	1903.9	1932.4	1951.7	1951.7	1947.5	1953.4	1930.7	1908.1
12.5°	1817.7	1834.4	1872.1	1914.0	1940.8	1948.3	1945.0	1928.2	1893.9	1866.2	1853.7
15°	1803.4	1826.0	1872.9	1919.8	1942.5	1945.0	1913.1	1870.4	1844.5	1827.7	1806.8
17.5°	1787.5	1817.7	1873.8	1920.7	1929.1	1917.3	1857.0	1830.2	1803.4	1764.0	1735.6
20°	1772.4	1801.7	1867.1	1909.0	1914.0	1861.2	1814.3	1785.8	1740.6	1706.3	1693.7
22.5°	1749.0	1783.3	1861.2	1893.0	1873.8	1812.6	1767.4	1722.2	1681.1	1671.1	1656.0
25°	1729.7	1765.7	1847.8	1873.8	1822.7	1768.2	1715.5	1662.7	1643.4	1629.2	1615.8
27.5°	1703.7	1748.1	1830.2	1838.6	1768.2	1720.5	1643.4	1620.0	1602.4	1586.5	1580.6
30°	1675.3	1729.7	1805.9	1790.0	1723.0	1652.6	1595.7	1573.9	1561.3	1544.6	1537.9
32.5°	1642.6	1702.1	1779.1	1733.9	1674.4	1586.5	1549.6	1532.9	1516.1	1503.5	1461.7
35°	1609.1	1677.8	1747.3	1680.3	1615.8	1536.2	1503.5	1488.5	1472.6	1426.5	1382.9
37.5°	1574.7	1651.0	1708.8	1622.5	1537.9	1484.3	1456.6	1439.9	1403.9	1345.2	1323.5
40°	1535.4	1618.3	1659.3	1563.0	1470.0	1431.5	1405.5	1388.8	1307.5	1281.6	1274.9
42.5°	1496.0	1586.5	1599.0	1505.2	1413.9	1375.4	1353.6	1298.3	1243.0	1229.6	1232.2
45°	1458.3	1552.1	1532.9	1423.1	1355.3	1323.5	1286.6	1210.4	1181.1	1187.8	1189.4
47.5°	1413.1	1511.1	1463.3	1341.0	1295.0	1263.1	1181.1	1135.0	1130.8	1140.0	1145.0
50°	1364.5	1465.0	1389.6	1266.5	1229.6	1191.9	1099.0	1075.5	1080.5	1089.8	1095.6
52.5°	1319.3	1413.1	1313.4	1197.0	1165.1	1078.9	1016.0	1020.2	1028.6	1039.5	1042.9
55°	1264.0	1350.3	1232.2	1126.6	1096.5	983.4	954.9	965.0	973.3	982.5	989.2
57.5°	1206.2	1278.2	1135.8	1047.9	999.3	898.8	901.3	908.0	913.9	924.7	382.0
60°	1140.0	1196.1	1030.3	975.0	878.7	831.8	834.3	846.0	851.9	475.8	263.0
62.5°	1071.3	1100.6	934.8	892.1	768.1	764.8	776.5	781.5	531.9	251.3	246.3
65°	992.6	986.7	841.0	773.1	692.7	696.1	708.6	683.5	235.4	235.4	233.7
67.5°	905.5	870.3	749.7	639.9	619.8	627.4	640.8	223.6	217.8	219.5	213.6
70°	805.8	756.4	655.0	541.9	548.6	556.2	216.1	202.7	200.2	196.0	184.3
72.5°	700.3	632.4	536.1	470.7	474.9	298.2	189.3	182.6	174.2	165.9	153.3
75°	582.2	494.2	393.7	393.7	399.5	170.0	165.0	154.1	144.9	134.0	126.5
77.5°	456.5	380.3	305.7	317.5	155.0	142.4	133.2	121.5	113.9	107.2	103.0
80°	334.2	265.5	230.3	206.1	120.6	108.1	98.8	92.1	88.8	84.6	79.6
82.5°	219.5	160.0	160.0	97.2	84.6	74.5	72.0	67.0	63.7	61.1	58.6
85°	104.7	93.0	70.4	59.5	52.8	47.7	46.1	43.6	43.6	42.7	41.9
87.5°	38.5	41.9	31.0	30.2	28.5	27.6	28.5	28.5	29.3	28.5	27.6
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1888.0	1894.7	1899.7	1908.1	1919.0	1928.2	1936.6	1948.3	1966.8	1971.8	1976.0
5°	1944.1	1946.7	1952.5	1959.2	1960.9	1965.1	1964.2	1969.3	1971.8	1977.6	1965.1
7.5°	1947.5	1934.1	1918.2	1903.9	1893.9	1884.7	1878.8	1888.0	1893.0	1897.2	1884.7
10°	1877.1	1861.2	1852.0	1843.6	1833.6	1819.3	1800.1	1804.3	1802.6	1802.6	1798.4
12.5°	1832.7	1810.1	1786.7	1765.7	1756.5	1755.7	1756.5	1765.7	1765.7	1764.9	1759.9
15°	1763.2	1741.4	1729.7	1724.7	1724.7	1722.2	1722.2	1732.2	1729.7	1729.7	1727.2
17.5°	1717.1	1702.1	1693.7	1687.8	1685.3	1689.5	1694.5	1698.7	1699.6	1696.2	1682.8
20°	1679.4	1665.2	1655.2	1656.8	1656.0	1658.5	1661.0	1646.8	1629.2	1605.7	1594.8
22.5°	1640.1	1629.2	1621.7	1621.7	1611.6	1595.7	1572.2	1567.2	1564.7	1553.8	1544.6
25°	1602.4	1589.8	1578.9	1545.4	1524.5	1527.0	1522.8	1514.4	1513.6	1512.8	1516.1
27.5°	1564.7	1532.0	1490.1	1485.1	1476.7	1475.9	1480.9	1485.1	1485.1	1488.5	1492.7
30°	1486.8	1449.1	1441.6	1432.3	1435.7	1447.4	1449.9	1455.8	1457.5	1463.3	1466.7
32.5°	1415.6	1398.8	1392.1	1396.3	1407.2	1417.3	1423.1	1425.6	1429.8	1434.9	1439.0
35°	1357.8	1352.8	1358.6	1367.9	1378.7	1387.1	1392.1	1397.2	1401.4	1405.5	1408.9
37.5°	1315.1	1318.4	1326.8	1338.5	1349.4	1356.1	1360.3	1366.2	1372.0	1377.1	1357.0
40°	1274.9	1283.2	1292.5	1305.0	1314.2	1320.9	1325.1	1332.7	1282.4	580.5	318.3
42.5°	1239.7	1248.9	1255.6	1265.7	1275.7	1280.7	1243.9	555.3	314.1	312.4	316.6
45°	1197.0	1204.5	1215.4	1222.9	1232.2	809.2	309.1	312.4	307.4	310.8	312.4
47.5°	1153.4	1165.1	1171.0	1117.4	332.5	307.4	304.1	307.4	304.1	308.2	305.7
50°	1104.0	1118.2	795.7	300.7	298.2	296.5	299.9	298.2	300.7	304.1	297.4
52.5°	1053.7	652.5	291.5	289.8	291.5	289.8	295.7	291.5	292.3	289.0	280.6
55°	356.8	282.3	279.8	278.9	284.0	284.0	284.0	277.3	273.1	264.7	258.8
57.5°	273.1	273.1	272.2	273.1	271.4	269.7	262.2	256.3	250.5	238.7	235.4
60°	258.8	258.8	258.8	258.8	251.3	247.9	236.2	231.2	221.1	215.3	211.9
62.5°	247.1	245.4	237.9	235.4	227.0	217.8	211.1	206.1	196.0	192.7	190.1
65°	230.3	224.5	215.3	205.2	201.0	191.0	187.6	180.1	175.1	172.6	170.9
67.5°	202.7	194.3	186.8	180.1	172.6	169.2	165.0	159.1	155.8	154.1	152.4
70°	173.4	167.5	160.0	155.8	150.8	148.3	142.4	140.7	138.2	135.7	133.2
72.5°	144.9	141.6	138.2	132.3	130.7	129.0	123.1	119.8	116.4	113.1	111.4
75°	121.5	118.9	117.3	112.2	109.7	104.7	100.5	98.0	95.5	93.0	91.3
77.5°	99.7	98.0	93.0	89.6	88.0	83.8	82.1	82.9	81.3	77.9	76.2
80°	77.9	76.2	72.0	72.0	70.4	68.7	67.0	65.3	63.7	61.1	59.5
82.5°	59.5	57.8	56.1	54.4	52.8	51.9	51.1	49.4	47.7	46.1	45.2
85°	41.9	41.0	40.2	39.4	38.5	37.7	36.9	35.2	33.5	32.7	31.8
87.5°	28.5	27.6	26.8	26.0	25.1	24.3	23.5	22.6	20.9	20.1	19.3
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1976.0	1980.2	1976.0	1966.8	1960.9	1958.4	1963.4	1963.4	1966.8	1970.9	1971.8
5°	1945.0	1934.9	1923.2	1911.5	1905.6	1902.3	1893.0	1894.7	1897.2	1898.9	1900.6
7.5°	1867.9	1854.5	1838.6	1823.5	1817.7	1812.6	1801.7	1801.7	1801.7	1802.6	1807.6
10°	1789.2	1783.3	1776.6	1766.6	1759.0	1756.5	1747.3	1749.8	1748.1	1750.6	1756.5
12.5°	1752.3	1745.6	1739.8	1729.7	1721.3	1718.0	1713.8	1716.3	1715.5	1719.7	1724.7
15°	1718.8	1715.5	1708.8	1701.2	1693.7	1687.0	1671.9	1666.9	1663.5	1659.3	1665.2
17.5°	1663.5	1640.1	1624.2	1612.4	1604.1	1598.2	1594.0	1594.0	1596.5	1599.0	1604.1
20°	1588.1	1581.4	1573.9	1561.3	1553.0	1549.6	1547.1	1547.1	1551.3	1554.6	1563.9
22.5°	1536.2	1535.4	1532.9	1527.0	1522.8	1522.8	1523.6	1525.3	1531.2	1536.2	1545.4
25°	1511.9	1515.3	1513.6	1510.2	1507.7	1508.6	1506.9	1508.6	1514.4	1519.5	1527.0
27.5°	1492.7	1497.7	1496.0	1491.0	1486.8	1488.5	1491.0	1489.3	1494.3	1500.2	1506.1
30°	1466.7	1467.5	1470.9	1465.0	1463.3	1465.9	1466.7	1468.4	1473.4	1477.6	1482.6
32.5°	1437.4	1444.1	1443.2	1437.4	1437.4	1439.9	1440.7	1384.6	1279.9	1102.3	1053.7
35°	1408.9	1416.4	1403.9	1183.6	819.2	437.2	337.6	325.8	328.4	330.0	331.7
37.5°	1042.0	494.2	314.9	317.5	320.0	322.5	325.0	327.5	330.0	332.5	333.4
40°	313.3	312.4	314.9	318.3	320.8	322.5	325.8	328.4	330.9	333.4	334.2
42.5°	309.9	311.6	314.1	317.5	320.8	324.2	326.7	330.0	331.7	333.4	334.2
45°	308.2	311.6	314.9	317.5	320.0	321.7	323.3	324.2	323.3	323.3	325.0
47.5°	305.7	309.1	309.9	309.1	309.9	309.1	309.1	309.1	306.6	305.7	305.7
50°	296.5	296.5	294.8	291.5	290.7	289.8	288.1	287.3	284.0	283.1	283.1
52.5°	277.3	276.4	273.9	269.7	268.0	266.4	265.5	264.7	261.3	259.7	260.5
55°	254.6	253.0	250.5	245.4	244.6	242.9	242.1	241.2	237.9	239.6	237.0
57.5°	233.7	230.3	227.0	226.2	222.8	222.0	221.1	220.3	217.8	218.6	216.9
60°	208.6	207.7	206.1	202.7	202.7	201.9	201.9	200.2	198.5	197.7	197.7
62.5°	190.1	187.6	186.0	186.0	183.4	183.4	183.4	181.8	180.1	180.9	180.1
65°	170.0	169.2	168.4	166.7	166.7	165.9	165.9	164.2	161.7	162.5	160.8
67.5°	153.3	151.6	149.9	149.1	145.7	144.1	143.2	142.4	139.0	139.9	138.2
70°	132.3	129.8	128.2	126.5	124.0	122.3	122.3	120.6	118.1	118.9	117.3
72.5°	110.6	108.9	107.2	106.4	103.9	103.0	102.2	101.4	98.8	99.7	98.8
75°	92.1	92.1	91.3	90.5	88.0	85.4	83.8	82.9	81.3	82.1	80.4
77.5°	76.2	74.5	72.9	72.9	70.4	68.7	67.0	67.0	67.0	66.2	65.3
80°	59.5	57.8	57.8	57.0	55.3	53.6	52.8	52.8	51.9	51.9	51.1
82.5°	45.2	43.6	42.7	42.7	41.0	40.2	39.4	38.5	38.5	38.5	37.7
85°	31.8	30.2	29.3	29.3	27.6	26.8	26.8	26.0	26.0	25.1	25.1
87.5°	19.3	18.4	17.6	17.6	15.9	15.1	15.1	15.1	14.2	14.2	13.4
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: P#

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1971.8	1971.8	1965.9	1967.6	1965.1	1968.4	1964.2	1964.2	1969.3	1969.3	1972.6
5°	1901.4	1897.2	1896.4	1894.7	1886.3	1889.7	1885.5	1881.3	1887.2	1887.2	1894.7
7.5°	1805.1	1797.6	1800.9	1795.9	1790.9	1783.3	1785.8	1782.5	1786.7	1792.5	1800.1
10°	1755.7	1749.0	1753.2	1748.1	1750.6	1739.8	1740.6	1741.4	1745.6	1747.3	1754.0
12.5°	1723.8	1722.2	1720.5	1718.8	1720.5	1714.6	1711.3	1712.1	1713.8	1714.6	1719.7
15°	1656.8	1645.9	1649.3	1637.6	1638.4	1639.2	1632.5	1639.2	1638.4	1649.3	1659.3
17.5°	1602.4	1602.4	1596.5	1591.5	1588.1	1587.3	1582.3	1585.6	1582.3	1589.0	1591.5
20°	1564.7	1563.9	1563.0	1560.5	1552.1	1553.0	1555.5	1547.9	1547.1	1546.3	1551.3
22.5°	1547.1	1547.9	1544.6	1544.6	1537.1	1538.7	1539.6	1531.2	1532.0	1529.5	1532.0
25°	1528.7	1530.4	1526.2	1526.2	1524.5	1523.6	1519.5	1521.1	1516.1	1511.9	1516.1
27.5°	1506.9	1510.2	1506.9	1508.6	1505.2	1503.5	1501.0	1499.4	1494.3	1493.5	1496.0
30°	1486.8	1488.5	1487.6	1483.4	1482.6	1477.6	1480.1	1475.1	1470.0	1470.9	1472.6
32.5°	762.2	727.9	561.2	506.8	501.7	520.2	616.5	750.5	972.5	1187.8	1342.7
35°	332.5	332.5	332.5	331.7	331.7	330.9	330.0	329.2	328.4	327.5	326.7
37.5°	334.2	334.2	334.2	334.2	333.4	332.5	332.5	330.9	330.0	329.2	328.4
40°	335.1	335.9	335.9	335.9	335.1	335.1	334.2	332.5	331.7	330.0	328.4
42.5°	334.2	335.1	335.1	334.2	334.2	333.4	333.4	332.5	331.7	330.9	330.0
45°	323.3	324.2	322.5	322.5	321.7	321.7	321.7	321.7	321.7	322.5	322.5
47.5°	304.1	304.1	303.2	302.4	302.4	301.5	302.4	301.5	303.2	304.1	305.7
50°	281.4	281.4	279.8	278.9	278.9	278.9	278.9	279.8	280.6	282.3	284.0
52.5°	258.0	258.0	257.2	256.3	255.5	255.5	258.0	257.2	258.0	258.8	261.3
55°	235.4	236.2	234.5	234.5	233.7	233.7	233.7	234.5	235.4	236.2	238.7
57.5°	216.1	216.1	214.4	214.4	214.4	213.6	216.1	214.4	215.3	216.1	217.8
60°	196.8	196.0	196.0	195.2	195.2	195.2	196.8	196.0	196.0	196.8	198.5
62.5°	179.3	179.3	178.4	178.4	177.6	177.6	179.3	178.4	178.4	179.3	180.1
65°	159.1	159.1	158.3	157.5	160.0	157.5	160.0	158.3	160.0	160.8	162.5
67.5°	136.5	136.5	136.5	135.7	135.7	137.4	138.2	136.5	137.4	139.0	139.9
70°	116.4	116.4	115.6	115.6	115.6	117.3	118.1	116.4	117.3	118.1	119.8
72.5°	98.8	97.2	97.2	96.3	98.0	98.0	98.8	98.0	98.8	98.8	100.5
75°	81.3	79.6	79.6	79.6	81.3	80.4	81.3	80.4	81.3	81.3	82.1
77.5°	65.3	64.5	63.7	63.7	65.3	65.3	65.3	64.5	65.3	66.2	67.0
80°	51.1	50.3	49.4	49.4	51.1	51.1	51.1	51.9	51.1	51.9	52.8
82.5°	37.7	36.9	36.0	37.7	37.7	37.7	37.7	38.5	37.7	38.5	39.4
85°	25.1	24.3	23.5	25.1	25.1	25.1	25.1	26.0	25.1	26.0	26.8
87.5°	13.4	12.6	12.6	13.4	13.4	13.4	14.2	14.2	14.2	15.1	15.1
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1977.6	1980.2	1979.3	1974.3	1969.3	1963.4	1959.2	1960.1	1968.4	1970.9	1963.4
5°	1894.7	1910.6	1910.6	1921.5	1915.7	1910.6	1914.0	1932.4	1941.6	1955.9	1960.9
7.5°	1809.3	1816.8	1816.0	1826.9	1825.2	1825.2	1827.7	1852.0	1863.7	1875.5	1878.8
10°	1761.5	1769.1	1768.2	1769.1	1766.6	1760.7	1760.7	1771.6	1781.6	1787.5	1789.2
12.5°	1727.2	1731.4	1730.5	1730.5	1728.9	1723.8	1723.0	1732.2	1743.1	1750.6	1751.5
15°	1676.1	1687.8	1690.3	1701.2	1698.7	1692.0	1693.7	1701.2	1707.9	1714.6	1712.1
17.5°	1599.9	1605.7	1606.6	1610.8	1609.1	1609.1	1619.1	1646.8	1665.2	1681.1	1682.8
20°	1556.3	1560.5	1558.8	1568.0	1563.9	1563.0	1565.5	1577.3	1585.6	1593.2	1606.6
22.5°	1535.4	1538.7	1536.2	1537.1	1529.5	1522.8	1521.1	1530.4	1539.6	1549.6	1549.6
25°	1517.8	1520.3	1519.5	1517.8	1511.9	1502.7	1501.0	1502.7	1506.1	1506.9	1501.0
27.5°	1496.8	1498.5	1498.5	1499.4	1491.8	1483.4	1481.8	1480.1	1483.4	1482.6	1473.4
30°	1475.1	1472.6	1473.4	1474.2	1467.5	1460.0	1456.6	1455.8	1459.2	1458.3	1449.1
32.5°	1423.1	1442.4	1444.1	1445.8	1439.9	1433.2	1429.8	1427.3	1429.0	1428.2	1419.8
35°	325.8	331.7	406.3	919.7	1248.9	1382.9	1397.2	1393.8	1394.7	1394.7	1388.0
37.5°	326.7	325.8	325.0	322.5	320.0	318.3	550.3	1173.5	1359.5	1360.3	1354.4
40°	326.7	325.8	325.0	323.3	320.0	317.5	313.3	309.9	317.5	698.6	1278.2
42.5°	328.4	326.7	325.0	323.3	320.0	316.6	313.3	309.1	311.6	309.9	305.7
45°	323.3	322.5	322.5	321.7	320.0	316.6	312.4	307.4	304.9	307.4	303.2
47.5°	307.4	308.2	310.8	311.6	311.6	312.4	309.9	306.6	302.4	304.9	299.9
50°	285.6	287.3	288.1	292.3	294.0	297.4	298.2	298.2	297.4	300.7	297.4
52.5°	262.2	263.9	268.0	269.7	271.4	276.4	278.1	280.6	282.3	287.3	290.7
55°	239.6	240.4	242.1	245.4	247.9	252.1	254.6	257.2	261.3	263.9	273.9
57.5°	218.6	219.5	222.8	223.6	225.3	228.7	231.2	234.5	237.9	239.6	251.3
60°	198.5	199.4	201.9	202.7	203.5	206.9	209.4	211.9	214.4	216.1	224.5
62.5°	180.9	180.9	183.4	183.4	184.3	186.8	188.5	190.1	192.7	193.5	197.7
65°	163.3	164.2	165.9	165.9	166.7	168.4	169.2	170.0	172.6	172.6	175.9
67.5°	141.6	142.4	144.9	146.6	147.4	150.8	151.6	152.4	154.1	155.0	156.6
70°	120.6	121.5	124.0	124.8	125.6	128.2	129.8	132.3	134.9	137.4	139.0
72.5°	101.4	102.2	104.7	104.7	107.2	108.1	109.7	110.6	113.1	114.8	117.3
75°	82.9	83.8	86.3	86.3	88.8	89.6	90.5	91.3	93.0	94.7	96.3
77.5°	67.8	67.8	71.2	72.9	74.5	74.5	75.4	75.4	75.4	76.2	77.9
80°	53.6	53.6	56.1	57.8	59.5	59.5	60.3	61.1	62.0	62.0	62.8
82.5°	40.2	40.2	42.7	43.6	45.2	45.2	45.2	46.1	46.9	46.1	47.7
85°	27.6	27.6	29.3	30.2	31.8	31.8	31.8	32.7	33.5	32.7	33.5
87.5°	15.9	16.8	17.6	18.4	19.3	20.1	20.1	20.1	20.9	20.9	21.8
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1955.0	1945.0	1944.1	1932.4	1929.1	1929.9	1920.7	1917.3	1902.3	1898.9	1883.0
5°	1962.6	1967.6	1965.1	1964.2	1966.8	1965.1	1958.4	1955.0	1952.5	1945.8	1932.4
7.5°	1879.6	1883.0	1885.5	1896.4	1905.6	1921.5	1938.3	1949.2	1957.5	1959.2	1948.3
10°	1795.0	1811.0	1821.8	1838.6	1852.0	1861.2	1871.3	1880.5	1904.8	1929.1	1943.3
12.5°	1751.5	1755.7	1754.8	1764.0	1773.3	1797.6	1821.0	1834.4	1852.8	1863.7	1889.7
15°	1714.6	1715.5	1718.0	1724.7	1729.7	1738.1	1749.0	1769.1	1805.9	1822.7	1836.9
17.5°	1681.1	1681.1	1682.8	1688.7	1695.4	1702.9	1709.6	1718.0	1736.4	1764.0	1799.2
20°	1627.5	1651.0	1653.5	1652.6	1656.0	1670.2	1671.9	1687.0	1696.2	1707.1	1741.4
22.5°	1547.9	1562.2	1582.3	1613.3	1625.0	1631.7	1636.7	1643.4	1657.7	1670.2	1684.5
25°	1504.4	1513.6	1519.5	1528.7	1553.0	1592.3	1599.9	1607.4	1616.6	1625.8	1643.4
27.5°	1465.9	1465.0	1469.2	1477.6	1484.3	1505.2	1542.1	1571.4	1573.1	1586.5	1601.5
30°	1438.2	1433.2	1427.3	1425.6	1434.9	1445.8	1456.6	1502.7	1534.5	1541.2	1557.2
32.5°	1412.2	1403.9	1395.5	1388.8	1382.9	1392.1	1398.8	1418.9	1460.0	1498.5	1506.9
35°	1380.4	1372.0	1362.0	1354.4	1345.2	1344.4	1343.6	1362.8	1376.2	1422.3	1462.5
37.5°	1347.7	1338.5	1330.2	1321.8	1312.6	1305.9	1301.7	1306.7	1319.3	1339.4	1406.4
40°	1313.4	1302.5	1294.1	1287.4	1274.9	1269.8	1261.5	1258.1	1259.0	1276.5	1311.7
42.5°	784.9	1251.4	1255.6	1248.1	1237.2	1230.5	1221.3	1217.1	1208.7	1217.1	1237.2
45°	302.4	305.7	915.5	1209.5	1196.1	1187.8	1179.4	1175.2	1166.0	1159.3	1177.7
47.5°	296.5	299.9	293.2	415.5	1141.7	1144.2	1134.2	1130.0	1120.7	1115.7	1110.7
50°	292.3	294.8	289.8	291.5	285.6	1046.2	1088.1	1083.1	1073.0	1067.1	1057.1
52.5°	288.1	288.1	284.8	280.6	278.9	279.8	880.3	1035.3	1023.6	1017.7	1004.3
55°	274.7	276.4	279.8	273.1	271.4	270.6	268.0	838.5	969.1	962.4	950.7
57.5°	254.6	258.0	267.2	265.5	265.5	258.8	257.2	257.2	778.2	906.3	894.6
60°	231.2	234.5	244.6	247.9	250.5	248.8	247.1	246.3	242.9	820.0	835.1
62.5°	206.9	210.2	213.6	224.5	227.8	232.0	237.0	234.5	231.2	231.2	772.3
65°	180.9	186.0	187.6	197.7	201.9	209.4	213.6	219.5	217.8	216.9	221.1
67.5°	158.3	164.2	165.0	169.2	176.7	180.1	185.1	196.0	201.0	202.7	204.4
70°	139.0	142.4	144.9	146.6	151.6	152.4	161.7	169.2	176.7	185.1	187.6
72.5°	119.8	122.3	127.3	125.6	127.3	130.7	135.7	140.7	148.3	160.0	167.5
75°	98.0	99.7	103.0	104.7	108.1	110.6	113.9	118.1	124.8	130.7	140.7
77.5°	78.7	79.6	82.1	82.9	86.3	88.8	94.7	97.2	101.4	105.5	111.4
80°	63.7	63.7	64.5	64.5	67.0	69.5	73.7	76.2	81.3	84.6	84.6
82.5°	48.6	48.6	51.1	51.1	52.8	52.8	55.3	55.3	57.8	59.5	61.1
85°	34.3	35.2	36.9	36.0	37.7	36.9	38.5	40.2	41.0	40.2	39.4
87.5°	22.6	22.6	24.3	23.5	24.3	24.3	26.0	26.0	26.8	26.8	26.0
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1877.1	1864.6	1857.0	1847.8	1845.3	1842.8	1846.1	1846.1	1841.1	1836.9	1829.4
5°	1920.7	1907.3	1893.0	1878.0	1863.7	1848.7	1842.8	1841.9	1832.7	1827.7	1825.2
7.5°	1943.3	1936.6	1920.7	1899.7	1878.0	1851.2	1839.4	1832.7	1823.5	1821.8	1821.8
10°	1945.8	1938.3	1929.9	1914.8	1889.7	1854.5	1831.9	1818.5	1810.1	1816.0	1826.9
12.5°	1921.5	1935.8	1928.2	1918.2	1898.1	1855.4	1822.7	1802.6	1800.1	1815.1	1843.6
15°	1859.5	1901.4	1922.4	1912.3	1896.4	1853.7	1807.6	1784.2	1784.2	1815.1	1852.0
17.5°	1812.6	1845.3	1896.4	1904.8	1886.3	1850.3	1793.4	1765.7	1773.3	1818.5	1857.9
20°	1774.1	1794.2	1843.6	1890.5	1872.9	1842.8	1772.4	1743.9	1759.0	1813.5	1866.2
22.5°	1713.8	1754.0	1784.2	1853.7	1859.5	1828.5	1751.5	1717.1	1747.3	1813.5	1862.1
25°	1655.2	1703.7	1735.6	1803.4	1839.4	1811.0	1732.2	1688.7	1734.7	1811.0	1858.7
27.5°	1614.1	1636.7	1694.5	1743.1	1809.3	1787.5	1706.3	1657.7	1718.8	1797.6	1839.4
30°	1570.6	1585.6	1642.6	1688.7	1769.1	1760.7	1679.4	1623.3	1698.7	1785.0	1789.2
32.5°	1522.8	1539.6	1568.9	1635.9	1713.0	1735.6	1649.3	1589.0	1676.9	1765.7	1730.5
35°	1474.2	1486.8	1510.2	1582.3	1647.6	1697.9	1612.4	1549.6	1661.9	1736.4	1674.4
37.5°	1425.6	1439.0	1459.2	1519.5	1578.9	1662.7	1580.6	1510.2	1634.2	1684.5	1615.8
40°	1379.6	1387.1	1408.1	1445.8	1522.0	1626.7	1544.6	1469.2	1605.7	1618.3	1536.2
42.5°	1295.0	1332.7	1351.9	1382.1	1457.5	1577.3	1502.7	1425.6	1573.9	1552.1	1456.6
45°	1203.7	1285.8	1294.1	1324.3	1400.5	1524.5	1463.3	1382.9	1543.8	1495.2	1381.3
47.5°	1129.1	1188.6	1237.2	1262.3	1332.7	1462.5	1426.5	1346.9	1498.5	1423.1	1307.5
50°	1063.0	1094.8	1182.7	1201.2	1251.4	1388.0	1382.9	1305.0	1435.7	1332.7	1235.5
52.5°	998.5	1021.1	1100.6	1140.0	1181.1	1307.5	1331.0	1264.0	1367.0	1242.2	1162.6
55°	942.3	949.9	993.4	1076.4	1113.2	1226.3	1274.0	1216.2	1279.9	1155.9	1092.3
57.5°	884.5	877.8	909.7	1016.0	1042.9	1143.4	1213.7	1167.7	1209.5	1068.0	1019.4
60°	824.2	815.0	828.4	898.8	968.3	1061.3	1142.5	1114.0	1124.1	980.9	938.1
62.5°	761.4	752.2	748.0	792.4	895.4	976.7	1070.5	1054.6	1019.4	901.3	837.6
65°	696.1	686.9	680.2	697.7	815.0	866.9	990.1	985.9	904.6	817.5	705.3
67.5°	211.9	624.9	610.6	609.8	686.9	767.3	903.0	896.3	789.0	727.9	607.3
70°	191.0	506.8	538.6	531.1	564.6	665.9	803.3	798.3	676.8	583.8	536.9
72.5°	175.1	179.3	475.8	467.4	474.9	566.2	699.4	686.0	573.8	460.7	464.0
75°	149.9	157.5	164.2	394.5	384.5	469.1	586.3	565.4	473.3	380.3	387.8
77.5°	122.3	131.5	136.5	287.3	310.8	334.2	468.2	440.6	325.8	304.1	144.9
80°	91.3	98.8	107.2	114.8	236.2	233.7	347.6	320.0	227.0	189.3	113.1
82.5°	67.0	69.5	74.5	82.9	93.8	156.6	223.6	196.8	157.5	86.3	77.9
85°	41.9	45.2	47.7	50.3	57.0	93.8	110.6	88.0	66.2	52.8	49.4
87.5°	26.8	26.8	26.0	26.8	27.6	33.5	37.7	36.0	28.5	26.8	26.8
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1821.0	1809.3	1809.3	1805.9	1808.4	1808.4	1807.6	1808.4	1814.3	1817.7	1823.5
5°	1820.2	1816.8	1824.4	1833.6	1844.5	1857.9	1861.2	1872.9	1883.8	1898.1	1913.1
7.5°	1831.1	1842.8	1857.0	1872.1	1893.9	1909.8	1924.0	1938.3	1948.3	1961.7	1970.1
10°	1847.0	1870.4	1894.7	1914.0	1937.4	1950.8	1960.1	1961.7	1947.5	1924.9	1906.4
12.5°	1869.6	1897.2	1919.8	1938.3	1949.2	1944.1	1917.3	1889.7	1873.8	1850.3	1817.7
15°	1888.9	1914.0	1937.4	1929.9	1900.6	1872.9	1852.0	1819.3	1787.5	1765.7	1751.5
17.5°	1897.2	1921.5	1913.1	1873.8	1846.1	1814.3	1771.6	1746.5	1725.5	1708.8	1700.4
20°	1902.3	1898.1	1852.8	1824.4	1770.8	1741.4	1713.8	1690.3	1674.4	1666.0	1664.4
22.5°	1888.9	1837.8	1799.2	1748.1	1708.8	1684.5	1662.7	1643.4	1632.5	1625.8	1621.7
25°	1844.5	1785.0	1728.0	1687.8	1654.3	1633.4	1616.6	1600.7	1587.3	1584.0	1575.6
27.5°	1782.5	1733.9	1658.5	1627.5	1598.2	1588.1	1569.7	1553.8	1542.1	1532.0	1505.2
30°	1731.4	1654.3	1599.9	1571.4	1553.8	1542.1	1521.1	1504.4	1484.3	1447.4	1432.3
32.5°	1668.6	1592.3	1540.4	1524.5	1502.7	1492.7	1469.2	1432.3	1401.4	1386.3	1385.4
35°	1587.3	1524.5	1486.8	1472.6	1455.0	1438.2	1389.6	1356.1	1341.0	1342.7	1355.3
37.5°	1519.5	1463.3	1439.0	1418.9	1398.8	1356.1	1315.1	1299.2	1303.4	1311.7	1317.6
40°	1450.8	1408.1	1380.4	1364.5	1319.3	1277.4	1255.6	1261.5	1269.0	1274.9	1282.4
42.5°	1383.8	1353.6	1326.0	1295.0	1233.0	1210.4	1215.4	1222.9	1229.6	1238.0	1245.6
45°	1320.1	1293.3	1261.5	1191.1	1160.1	1166.0	1173.5	1179.4	1189.4	1195.3	1202.8
47.5°	1259.8	1231.3	1175.2	1113.2	1109.9	1121.6	1128.3	1135.8	1143.4	1128.3	622.4
50°	1191.9	1162.6	1077.2	1053.7	1061.3	1072.2	1080.5	1088.1	969.1	385.3	296.5
52.5°	1124.9	1050.4	995.9	1002.6	1010.2	1022.7	1028.6	763.9	304.1	289.8	290.7
55°	1050.4	954.9	939.0	947.4	954.1	966.6	640.8	280.6	278.9	278.1	284.8
57.5°	933.1	875.3	882.0	890.4	897.1	633.2	273.1	271.4	272.2	273.1	273.9
60°	828.4	815.9	823.4	830.9	588.0	263.9	258.8	259.7	263.0	260.5	253.8
62.5°	745.5	755.5	763.1	668.4	250.5	247.9	250.5	247.9	242.1	237.9	229.5
65°	681.8	691.9	697.7	235.4	234.5	237.9	235.4	227.0	217.8	206.1	203.5
67.5°	614.8	624.9	223.6	217.8	221.1	216.9	206.9	196.8	190.1	180.1	175.9
70°	545.3	233.7	202.7	201.9	196.0	189.3	178.4	168.4	160.0	155.8	151.6
72.5°	393.7	185.1	182.6	175.9	165.9	156.6	147.4	141.6	137.4	134.9	132.3
75°	164.2	160.8	153.3	141.6	131.5	127.3	120.6	116.4	114.8	109.7	108.1
77.5°	137.4	130.7	119.8	111.4	105.5	103.0	98.0	93.0	90.5	89.6	86.3
80°	105.5	96.3	91.3	87.1	85.4	79.6	73.7	71.2	69.5	68.7	66.2
82.5°	72.0	68.7	65.3	59.5	59.5	57.0	54.4	52.8	51.1	51.1	49.4
85°	46.9	44.4	43.6	41.0	41.0	39.4	38.5	37.7	36.9	36.0	35.2
87.5°	26.8	26.8	27.6	26.8	26.8	26.0	25.1	24.3	23.5	23.5	21.8
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1831.1	1839.4	1841.1	1869.6	1885.5	1884.7	1879.6	1894.7	1885.5	1880.5	1885.5
5°	1928.2	1938.3	1946.7	1977.6	1988.5	1993.6	1992.7	2001.1	1994.4	1988.5	1988.5
7.5°	1976.0	1979.3	1982.7	1975.1	1970.1	1961.7	1949.2	1930.7	1921.5	1911.5	1898.9
10°	1897.2	1886.3	1890.5	1875.5	1862.9	1853.7	1841.9	1826.9	1814.3	1805.1	1790.9
12.5°	1800.9	1800.1	1801.7	1804.3	1791.7	1784.2	1774.9	1764.0	1754.8	1744.8	1733.1
15°	1742.3	1743.1	1749.8	1747.3	1743.1	1738.9	1728.9	1725.5	1717.1	1706.3	1699.6
17.5°	1700.4	1704.6	1711.3	1707.9	1701.2	1697.0	1689.5	1682.0	1674.4	1666.0	1656.0
20°	1663.5	1667.7	1671.9	1667.7	1655.2	1649.3	1639.2	1615.8	1599.0	1582.3	1567.2
22.5°	1623.3	1625.8	1622.5	1609.1	1577.3	1562.2	1550.5	1543.8	1529.5	1520.3	1511.1
25°	1573.1	1558.8	1537.1	1522.0	1509.4	1502.7	1497.7	1496.8	1495.2	1493.5	1489.3
27.5°	1491.0	1486.0	1474.2	1468.4	1469.2	1471.7	1472.6	1475.1	1472.6	1469.2	1465.9
30°	1429.8	1432.3	1433.2	1434.9	1439.0	1441.6	1442.4	1445.8	1444.1	1441.6	1439.9
32.5°	1391.3	1397.2	1400.5	1405.5	1408.1	1412.2	1412.2	1417.3	1412.2	1411.4	1409.7
35°	1359.5	1364.5	1366.2	1373.7	1376.2	1380.4	1380.4	1384.6	1380.4	1337.7	1056.3
37.5°	1327.6	1332.7	1336.0	1342.7	1343.6	1346.1	1242.2	908.8	586.3	454.0	346.8
40°	1290.0	1295.8	1299.2	1301.7	914.7	580.5	399.5	325.0	325.0	327.5	330.0
42.5°	1249.7	1253.9	873.6	508.4	316.6	315.8	318.3	320.8	323.3	326.7	330.0
45°	982.5	495.9	314.9	307.4	309.9	313.3	316.6	320.0	324.2	327.5	329.2
47.5°	322.5	302.4	306.6	303.2	307.4	311.6	314.9	318.3	319.1	320.0	319.1
50°	298.2	298.2	300.7	300.7	304.1	305.7	305.7	305.7	302.4	301.5	299.0
52.5°	288.1	294.8	291.5	293.2	291.5	289.0	286.5	284.0	278.9	277.3	273.9
55°	283.1	285.6	277.3	274.7	271.4	264.7	261.3	258.0	253.8	252.1	247.9
57.5°	271.4	265.5	256.3	252.1	246.3	239.6	236.2	233.7	229.5	227.8	225.3
60°	249.6	237.9	232.0	227.0	220.3	214.4	211.9	210.2	206.9	206.1	203.5
62.5°	222.8	212.8	207.7	201.0	196.0	192.7	190.1	189.3	186.0	186.0	184.3
65°	193.5	188.5	184.3	177.6	175.1	171.7	170.9	170.0	168.4	167.5	165.9
67.5°	170.0	166.7	160.8	157.5	155.8	153.3	151.6	149.9	146.6	144.9	142.4
70°	149.1	146.6	140.7	138.2	134.9	130.7	128.2	126.5	124.0	122.3	119.8
72.5°	129.0	121.5	117.3	114.8	112.2	108.1	107.2	105.5	103.0	102.2	99.7
75°	103.9	98.0	95.5	93.8	91.3	88.8	88.8	88.8	86.3	85.4	84.6
77.5°	82.9	79.6	77.9	76.2	75.4	73.7	71.2	70.4	67.8	67.8	67.0
80°	63.7	62.0	60.3	59.5	58.6	57.0	55.3	54.4	51.9	51.9	51.1
82.5°	46.9	46.1	45.2	44.4	43.6	42.7	40.2	39.4	37.7	37.7	36.9
85°	33.5	32.7	31.0	30.2	30.2	29.3	26.8	26.0	24.3	24.3	24.3
87.5°	20.9	20.1	19.3	18.4	17.6	16.8	15.1	14.2	14.2	12.6	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1875.5	1889.7	1888.0	1898.1	1900.6	1905.6	1907.3	1908.1	1895.6	1905.6	1906.4
5°	1986.0	1988.5	1990.2	1994.4	1998.6	1999.4	1995.2	1990.2	1991.9	1988.5	1980.2
7.5°	1897.2	1884.7	1882.2	1878.8	1877.1	1875.5	1867.9	1874.6	1867.1	1863.7	1852.0
10°	1788.3	1776.6	1775.8	1775.8	1778.3	1777.5	1775.8	1772.4	1779.1	1774.9	1772.4
12.5°	1731.4	1727.2	1729.7	1728.0	1734.7	1736.4	1734.7	1734.7	1733.1	1729.7	1731.4
15°	1697.0	1693.7	1696.2	1693.7	1698.7	1699.6	1695.4	1697.9	1693.7	1689.5	1687.8
17.5°	1651.8	1644.3	1638.4	1630.0	1630.9	1629.2	1624.2	1624.2	1620.0	1609.1	1609.9
20°	1564.7	1557.2	1553.8	1553.8	1558.0	1559.7	1558.8	1560.5	1556.3	1554.6	1547.9
22.5°	1510.2	1509.4	1511.1	1515.3	1522.0	1531.2	1532.0	1532.0	1532.0	1531.2	1522.8
25°	1491.0	1491.0	1492.7	1498.5	1503.5	1510.2	1511.9	1513.6	1511.9	1511.9	1504.4
27.5°	1469.2	1467.5	1470.9	1476.7	1482.6	1487.6	1491.8	1492.7	1490.1	1490.1	1492.7
30°	1442.4	1441.6	1445.8	1451.6	1456.6	1461.7	1465.9	1469.2	1465.9	1465.9	1463.3
32.5°	1414.8	1414.8	1416.4	1381.3	1280.7	1153.4	1155.9	1082.2	1031.1	966.6	1052.1
35°	882.9	642.5	552.0	467.4	407.9	369.4	368.6	356.0	350.1	345.9	345.1
37.5°	333.4	335.1	338.4	340.1	342.6	344.3	345.1	345.1	345.1	345.1	344.3
40°	332.5	335.9	338.4	340.9	343.4	345.1	345.1	345.9	346.8	346.8	346.8
42.5°	333.4	336.7	340.1	342.6	344.3	345.1	345.9	346.8	346.8	346.8	346.8
45°	332.5	334.2	334.2	335.1	335.1	335.1	335.9	335.9	335.1	334.2	335.9
47.5°	320.0	320.0	317.5	316.6	315.8	314.1	314.9	314.1	313.3	312.4	314.1
50°	298.2	294.8	293.2	291.5	290.7	289.0	289.8	289.0	288.1	286.5	289.0
52.5°	272.2	271.4	268.0	266.4	265.5	266.4	264.7	263.9	263.0	262.2	263.0
55°	247.1	243.8	242.9	241.2	240.4	241.2	240.4	239.6	238.7	237.9	238.7
57.5°	224.5	222.0	221.1	219.5	219.5	219.5	219.5	218.6	217.8	216.9	217.8
60°	202.7	201.0	200.2	200.2	199.4	199.4	199.4	198.5	197.7	197.7	198.5
62.5°	184.3	184.3	181.8	180.9	180.9	181.8	180.9	180.1	179.3	178.4	180.1
65°	165.0	161.7	160.8	159.1	157.5	158.3	157.5	156.6	155.8	155.0	156.6
67.5°	141.6	140.7	137.4	135.7	134.9	135.7	134.9	134.0	133.2	132.3	134.0
70°	118.9	118.9	115.6	114.8	113.9	113.9	113.1	113.1	112.2	111.4	113.1
72.5°	98.8	98.8	98.0	96.3	95.5	94.7	93.8	93.0	93.0	93.8	93.8
75°	82.1	80.4	77.1	77.9	77.1	76.2	76.2	75.4	74.5	76.2	75.4
77.5°	64.5	63.7	61.1	62.0	61.1	60.3	60.3	59.5	58.6	59.5	59.5
80°	48.6	48.6	47.7	46.9	46.9	46.1	45.2	45.2	44.4	45.2	45.2
82.5°	35.2	35.2	34.3	33.5	32.7	32.7	31.8	31.8	31.8	31.8	31.8
85°	22.6	21.8	21.8	20.1	20.1	20.1	19.3	19.3	19.3	19.3	19.3
87.5°	10.9	10.9	10.1	10.1	9.2	8.4	8.4	7.5	7.5	8.4	8.4
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: P#

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1891.4	1902.3	1893.0	1897.2	1898.1	1912.3	1911.5	1914.8	1909.0	1902.3	1893.0
5°	1987.7	1982.7	1976.0	1991.9	1983.5	1993.6	1996.9	2003.6	2003.6	2002.8	1995.2
7.5°	1864.6	1853.7	1862.1	1867.9	1870.4	1863.7	1877.1	1892.2	1904.8	1912.3	1913.1
10°	1768.2	1771.6	1770.8	1773.3	1779.1	1778.3	1786.7	1795.0	1798.4	1803.4	1805.1
12.5°	1723.0	1722.2	1723.8	1729.7	1733.1	1732.2	1740.6	1745.6	1747.3	1748.1	1747.3
15°	1687.0	1681.1	1685.3	1686.2	1688.7	1688.7	1698.7	1706.3	1709.6	1711.3	1709.6
17.5°	1619.1	1604.9	1618.3	1618.3	1627.5	1625.8	1641.8	1654.3	1661.0	1666.0	1666.0
20°	1552.1	1545.4	1550.5	1548.8	1555.5	1554.6	1564.7	1573.1	1578.9	1583.1	1588.1
22.5°	1525.3	1527.0	1519.5	1520.3	1520.3	1519.5	1524.5	1528.7	1530.4	1532.9	1531.2
25°	1507.7	1509.4	1506.9	1502.7	1501.0	1502.7	1505.2	1510.2	1511.1	1509.4	1503.5
27.5°	1490.1	1485.1	1489.3	1481.8	1480.1	1483.4	1486.8	1487.6	1488.5	1488.5	1483.4
30°	1463.3	1459.2	1463.3	1460.0	1456.6	1460.0	1462.5	1462.5	1464.2	1465.0	1459.2
32.5°	1022.7	1031.1	1166.8	1248.9	1364.5	1423.1	1434.0	1434.0	1435.7	1435.7	1430.7
35°	348.5	349.3	377.8	409.6	477.4	561.2	670.9	727.9	920.6	1150.9	1373.7
37.5°	344.3	343.4	342.6	341.8	340.9	340.1	338.4	337.6	342.6	406.3	551.2
40°	345.9	345.1	343.4	342.6	341.8	340.1	339.2	337.6	335.9	334.2	332.5
42.5°	345.9	345.1	344.3	343.4	342.6	341.8	340.1	338.4	336.7	334.2	331.7
45°	334.2	334.2	335.1	335.1	335.9	335.9	335.9	335.1	335.1	334.2	330.9
47.5°	312.4	312.4	314.9	314.9	316.6	318.3	318.3	320.0	322.5	324.2	325.0
50°	287.3	287.3	289.8	290.7	292.3	294.8	297.4	298.2	300.7	304.1	307.4
52.5°	262.2	262.2	264.7	264.7	266.4	268.9	271.4	272.2	275.6	278.9	283.1
55°	238.7	238.7	240.4	241.2	242.1	243.8	246.3	246.3	249.6	252.1	256.3
57.5°	217.8	219.5	219.5	219.5	220.3	222.0	223.6	223.6	226.2	228.7	232.0
60°	197.7	199.4	199.4	199.4	200.2	201.0	202.7	202.7	204.4	206.1	209.4
62.5°	179.3	180.9	180.9	181.8	181.8	182.6	184.3	183.4	185.1	186.0	188.5
65°	155.8	157.5	158.3	159.1	160.0	161.7	164.2	163.3	165.9	167.5	170.0
67.5°	133.2	134.9	134.9	135.7	136.5	138.2	139.9	139.9	142.4	144.1	147.4
70°	112.2	113.9	113.9	114.8	115.6	117.3	118.9	118.1	120.6	122.3	124.8
72.5°	93.0	94.7	94.7	95.5	95.5	97.2	98.8	100.5	100.5	102.2	103.9
75°	75.4	76.2	77.1	77.1	77.9	78.7	80.4	82.1	82.9	83.8	85.4
77.5°	59.5	60.3	61.1	61.1	62.0	62.8	63.7	67.0	68.7	69.5	69.5
80°	45.2	46.1	46.1	46.1	46.9	47.7	49.4	49.4	52.8	52.8	53.6
82.5°	31.8	32.7	32.7	32.7	33.5	35.2	36.0	36.9	38.5	39.4	39.4
85°	19.3	20.1	20.1	20.1	20.9	21.8	23.5	24.3	25.1	25.1	26.0
87.5°	7.5	8.4	9.2	9.2	10.1	10.9	11.7	12.6	13.4	13.4	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1883.0	1888.9	1883.0	1886.3	1890.5	1883.0	1865.4	1858.7	1856.2	1846.1	1839.4
5°	1987.7	1987.7	1985.2	1991.9	1991.0	1979.3	1960.9	1952.5	1944.1	1933.3	1924.9
7.5°	1913.1	1919.8	1924.0	1950.0	1966.8	1968.4	1980.2	1982.7	1986.0	1982.7	1977.6
10°	1805.9	1803.4	1815.1	1839.4	1853.7	1861.2	1883.8	1894.7	1903.9	1922.4	1941.6
12.5°	1745.6	1749.0	1754.0	1771.6	1785.0	1781.6	1790.9	1798.4	1809.3	1827.7	1855.4
15°	1705.4	1708.8	1713.8	1727.2	1735.6	1731.4	1736.4	1741.4	1749.0	1758.2	1774.9
17.5°	1661.9	1667.7	1673.6	1687.8	1695.4	1694.5	1698.7	1700.4	1702.9	1708.8	1720.5
20°	1594.0	1612.4	1624.2	1643.4	1654.3	1652.6	1660.2	1662.7	1666.0	1671.9	1676.9
22.5°	1532.0	1537.1	1542.9	1563.9	1582.3	1604.9	1609.9	1616.6	1625.0	1630.9	1635.9
25°	1496.8	1493.5	1496.0	1510.2	1520.3	1522.0	1529.5	1551.3	1573.9	1584.0	1595.7
27.5°	1475.9	1472.6	1471.7	1478.4	1480.1	1475.9	1474.2	1480.9	1497.7	1514.4	1549.6
30°	1453.3	1449.1	1445.8	1451.6	1454.1	1448.3	1437.4	1431.5	1441.6	1445.8	1460.0
32.5°	1426.5	1422.3	1420.6	1424.0	1425.6	1420.6	1408.9	1402.2	1400.5	1397.2	1400.5
35°	1396.3	1392.1	1389.6	1390.5	1393.8	1389.6	1379.6	1371.2	1367.0	1357.8	1351.1
37.5°	719.5	1019.4	1323.5	1355.3	1358.6	1357.8	1347.7	1338.5	1334.3	1323.5	1320.1
40°	329.2	367.7	552.0	721.2	1040.3	1321.8	1312.6	1303.4	1295.8	1292.5	1279.9
42.5°	328.4	329.2	330.0	325.8	403.7	687.7	1015.2	1267.3	1262.3	1253.9	1244.7
45°	328.4	324.2	327.5	322.5	324.2	323.3	402.9	650.0	1156.8	1208.7	1204.5
47.5°	325.0	322.5	325.8	321.7	316.6	319.1	315.8	320.0	499.2	846.8	1160.1
50°	309.9	311.6	317.5	316.6	312.4	315.8	309.9	314.9	310.8	340.9	656.7
52.5°	287.3	290.7	296.5	301.5	303.2	307.4	305.7	307.4	304.1	304.9	305.7
55°	260.5	264.7	269.7	277.3	280.6	287.3	292.3	294.8	299.0	298.2	291.5
57.5°	235.4	239.6	243.8	251.3	258.8	262.2	271.4	276.4	287.3	284.8	283.1
60°	211.9	215.3	219.5	221.1	230.3	236.2	244.6	249.6	263.9	267.2	272.2
62.5°	191.0	192.7	196.0	198.5	204.4	210.2	214.4	222.8	230.3	241.2	248.8
65°	171.7	173.4	175.9	177.6	178.4	186.8	189.3	198.5	201.0	212.8	219.5
67.5°	149.9	153.3	156.6	158.3	160.0	165.0	166.7	170.9	176.7	181.8	190.1
70°	127.3	129.8	133.2	135.7	139.0	142.4	147.4	149.9	154.1	157.5	164.2
72.5°	106.4	108.9	110.6	113.1	115.6	118.1	122.3	128.2	131.5	137.4	139.0
75°	86.3	88.8	90.5	92.1	94.7	96.3	98.0	103.9	107.2	112.2	117.3
77.5°	71.2	71.2	72.9	77.9	77.1	77.1	78.7	82.1	84.6	88.0	93.0
80°	55.3	56.1	57.0	61.1	62.0	62.8	62.0	64.5	67.0	67.8	71.2
82.5°	41.0	41.9	41.9	44.4	46.9	46.9	46.9	47.7	50.3	51.1	52.8
85°	27.6	28.5	29.3	30.2	31.8	32.7	33.5	33.5	35.2	36.0	36.9
87.5°	15.1	16.8	17.6	18.4	19.3	20.1	20.9	21.8	22.6	23.5	24.3
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1836.9	1832.7	1830.2	1823.5	1821.8	1811.0	1812.6	1811.0	1811.0	1813.5	1821.8
5°	1915.7	1895.6	1890.5	1876.3	1864.6	1844.5	1831.9	1825.2	1815.1	1811.0	1816.8
7.5°	1969.3	1954.2	1941.6	1929.1	1912.3	1888.9	1871.3	1851.2	1834.4	1818.5	1814.3
10°	1960.1	1976.8	1976.8	1969.3	1953.4	1929.9	1909.0	1883.8	1854.5	1829.4	1814.3
12.5°	1882.2	1911.5	1934.9	1952.5	1968.4	1952.5	1931.6	1911.5	1878.8	1841.9	1814.3
15°	1796.7	1826.9	1856.2	1893.0	1931.6	1947.5	1946.7	1923.2	1893.9	1855.4	1816.8
17.5°	1736.4	1757.3	1773.3	1813.5	1860.4	1901.4	1929.1	1930.7	1902.3	1867.9	1817.7
20°	1691.2	1706.3	1719.7	1742.3	1783.3	1833.6	1884.7	1913.1	1908.1	1870.4	1820.2
22.5°	1650.1	1661.0	1671.9	1688.7	1721.3	1754.0	1813.5	1872.1	1897.2	1866.2	1817.7
25°	1609.1	1620.8	1629.2	1640.9	1666.9	1693.7	1735.6	1808.4	1864.6	1862.9	1812.6
27.5°	1560.5	1576.4	1586.5	1602.4	1620.0	1640.1	1668.6	1737.2	1817.7	1846.1	1799.2
30°	1501.9	1525.3	1540.4	1558.0	1573.1	1590.7	1613.3	1655.2	1754.8	1813.5	1785.0
32.5°	1417.3	1459.2	1492.7	1509.4	1526.2	1541.2	1561.3	1596.5	1677.8	1769.1	1769.1
35°	1357.0	1376.2	1406.4	1455.0	1475.9	1491.0	1509.4	1537.1	1589.0	1716.3	1743.1
37.5°	1310.1	1317.6	1332.7	1380.4	1419.8	1444.1	1462.5	1480.1	1531.2	1644.3	1709.6
40°	1274.9	1272.4	1270.7	1293.3	1349.4	1388.0	1408.9	1426.5	1465.9	1558.0	1665.2
42.5°	1233.8	1231.3	1222.9	1228.8	1256.4	1320.9	1352.8	1372.0	1404.7	1467.5	1616.6
45°	1191.1	1186.9	1183.6	1177.7	1187.8	1223.8	1289.1	1317.6	1336.0	1392.1	1555.5
47.5°	1147.6	1141.7	1137.5	1132.5	1126.6	1143.4	1205.4	1256.4	1288.3	1323.5	1481.8
50°	1085.6	1093.1	1088.1	1082.2	1077.2	1073.8	1099.8	1183.6	1222.9	1251.4	1392.1
52.5°	511.8	995.1	1037.0	1031.1	1024.4	1018.6	1024.4	1088.1	1159.3	1181.9	1284.1
55°	291.5	443.1	922.2	975.0	969.1	960.8	955.7	977.5	1083.9	1114.0	1185.2
57.5°	280.6	281.4	407.1	878.7	911.3	903.8	897.9	903.0	993.4	1044.5	1099.0
60°	271.4	271.4	271.4	388.7	840.1	842.7	835.1	826.7	866.1	966.6	1011.9
62.5°	251.3	256.3	258.8	258.8	383.6	778.2	770.6	768.1	769.8	872.8	924.7
65°	225.3	237.0	242.1	245.4	245.4	402.9	704.4	700.3	694.4	733.8	836.8
67.5°	196.8	208.6	219.5	226.2	227.0	234.5	420.5	630.7	622.4	623.2	743.0
70°	167.5	177.6	189.3	199.4	208.6	212.8	219.5	523.5	551.2	539.4	636.6
72.5°	144.9	149.1	157.5	167.5	178.4	188.5	194.3	208.6	478.3	465.7	484.2
75°	120.6	124.0	129.8	136.5	144.9	156.6	166.7	176.7	253.8	390.3	387.8
77.5°	93.8	99.7	106.4	110.6	114.8	123.1	136.5	146.6	156.6	263.9	310.8
80°	72.0	76.2	79.6	83.8	88.8	94.7	99.7	111.4	123.1	132.3	237.9
82.5°	53.6	56.1	58.6	60.3	62.0	65.3	74.5	78.7	86.3	94.7	112.2
85°	37.7	39.4	41.0	41.9	42.7	43.6	46.9	47.7	55.3	57.0	67.8
87.5°	24.3	25.1	26.8	27.6	27.6	28.5	29.3	29.3	29.3	27.6	33.5
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: 2SNLED-LD5-40HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1827.7	1827.7
2.5°	1828.5	1841.9
5°	1826.0	1843.6
7.5°	1819.3	1836.1
10°	1809.3	1829.4
12.5°	1798.4	1817.7
15°	1789.2	1803.4
17.5°	1779.1	1787.5
20°	1765.7	1772.4
22.5°	1752.3	1749.0
25°	1737.2	1729.7
27.5°	1718.0	1703.7
30°	1700.4	1675.3
32.5°	1683.6	1642.6
35°	1661.0	1609.1
37.5°	1637.6	1574.7
40°	1609.9	1535.4
42.5°	1580.6	1496.0
45°	1543.8	1458.3
47.5°	1511.1	1413.1
50°	1465.9	1364.5
52.5°	1410.6	1319.3
55°	1345.2	1264.0
57.5°	1274.9	1206.2
60°	1199.5	1140.0
62.5°	1108.2	1071.3
65°	1001.0	992.6
67.5°	861.1	905.5
70°	706.1	805.8
72.5°	590.5	700.3
75°	484.2	582.2
77.5°	383.6	456.5
80°	239.6	334.2
82.5°	160.8	219.5
85°	97.2	104.7
87.5°	37.7	38.5
90°	0.0	0.0

(END OF REPORT)