

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-LD5-57HL-RW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-57HL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

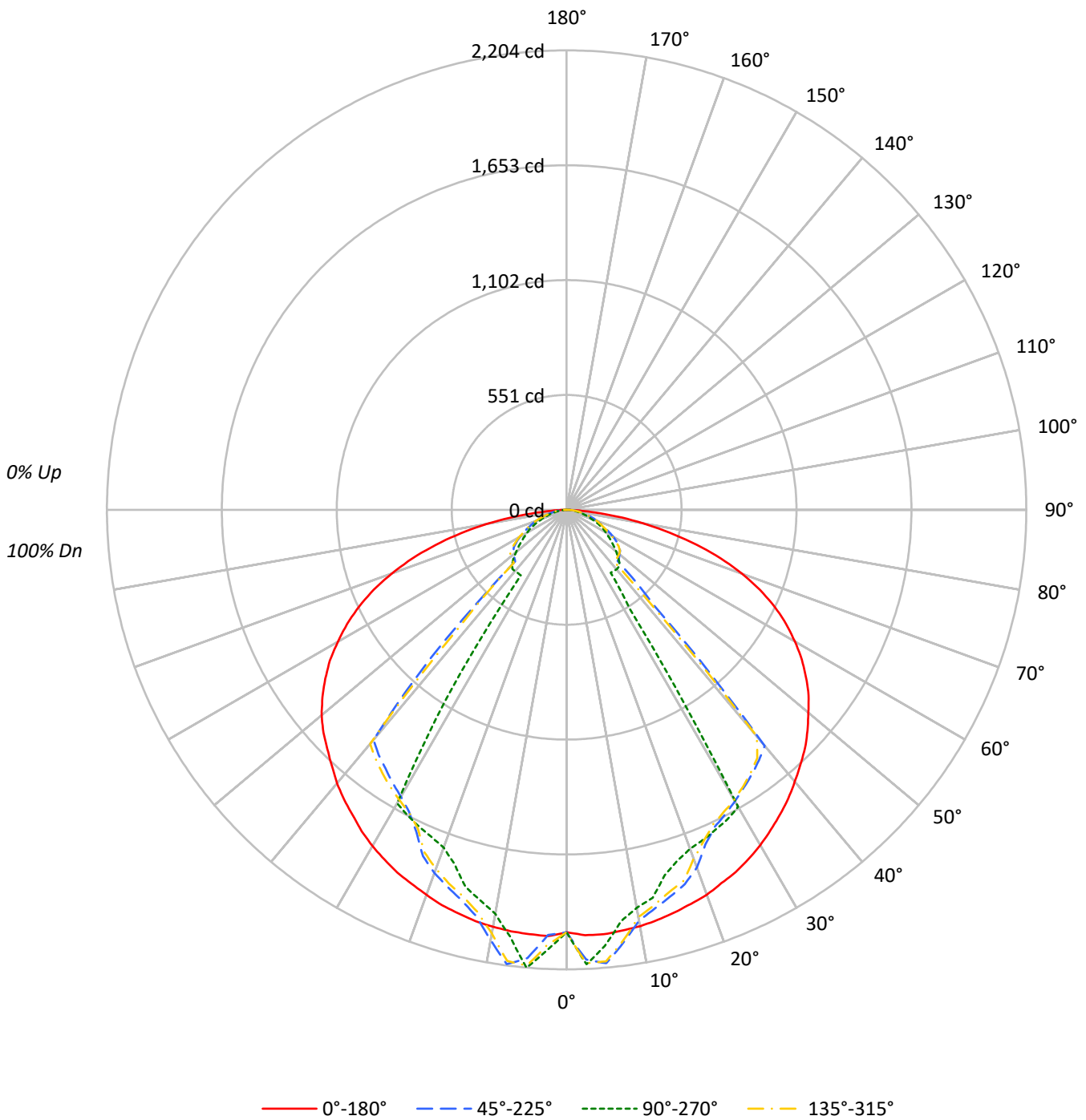
Lumens per Lamp: N/A
Luminaire Lumens: 4057.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	16372	16372	16372	16372
5°	16532	16495	16525	17312
10°	16548	14914	16571	15142
15°	16585	13798	16624	14236
20°	16706	13088	16706	13038
25°	16850	12837	16875	12717
30°	17021	12611	17063	12461
35°	17219	2872	17254	2996
40°	17495	2987	17599	3084
45°	17914	2971	17976	3079
50°	18332	2686	18579	2758
55°	18897	2385	19046	2419
60°	19375	2118	19418	2146
65°	19718	1850	19668	1820
70°	19435	1490	19374	1436
75°	18044	1147	18172	1099
80°	14646	815	15231	745
85°	7932	489	8376	375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	4.9
10°-20°	548.1	13.5
20°-30°	811.8	20.0
30°-40°	817.9	20.2
40°-50°	638.9	15.7
50°-60°	493.5	12.2
60°-70°	331.4	8.2
70°-80°	169.0	4.2
80°-90°	47.0	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°	1559.2	38.4
0°-40°	2377.1	58.6
0°-60°	3509.6	86.5
0°-90°	4057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4057.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2026	2026	2026	2026	2026	
5°	2044	2100	2043	2204	2044	194
15°	1999	1815	2004	1873	1999	565
25°	1917	1692	1920	1676	1917	884
35°	1784	368	1787	384	1784	1118
45°	1616	358	1622	370	1616	1247
55°	1401	260	1412	264	1401	1251
65°	1100	175	1098	172	1100	1082
75°	645	88	650	84	645	675
85°	116	28	123	21	116	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2041.7	2049.2	2054.7	2058.5	2060.3	2060.3	2061.2	2062.2	2074.2	2079.8	2083.5
5°	2043.6	2051.0	2062.2	2077.0	2090.0	2101.2	2110.5	2123.5	2136.5	2150.4	2155.0
7.5°	2035.2	2044.5	2066.8	2093.7	2118.8	2136.5	2148.5	2156.9	2163.4	2164.3	2168.9
10°	2027.8	2044.5	2075.2	2110.5	2142.0	2163.4	2163.4	2158.7	2165.2	2140.2	2115.1
12.5°	2014.8	2033.4	2075.2	2121.6	2151.3	2159.7	2155.9	2137.4	2099.3	2068.7	2054.7
15°	1999.0	2024.1	2076.1	2128.1	2153.2	2155.9	2120.7	2073.3	2044.5	2026.0	2002.7
17.5°	1981.4	2014.8	2077.0	2129.0	2138.3	2125.3	2058.5	2028.7	1999.0	1955.4	1923.8
20°	1964.7	1997.2	2069.6	2116.0	2121.6	2063.1	2011.1	1979.5	1929.4	1891.3	1877.4
22.5°	1938.7	1976.8	2063.1	2098.4	2077.0	2009.2	1959.1	1909.0	1863.5	1852.3	1835.6
25°	1917.3	1957.3	2048.2	2077.0	2020.4	1960.0	1901.5	1843.0	1821.7	1805.9	1791.1
27.5°	1888.5	1937.8	2028.7	2038.0	1960.0	1907.1	1821.7	1795.7	1776.2	1758.6	1752.1
30°	1857.0	1917.3	2001.8	1984.2	1909.9	1831.9	1768.8	1744.6	1730.7	1712.1	1704.7
32.5°	1820.8	1886.7	1972.1	1922.0	1856.0	1758.6	1717.7	1699.1	1680.6	1666.6	1620.2
35°	1783.6	1859.8	1936.8	1862.5	1791.1	1702.8	1666.6	1649.9	1632.3	1581.2	1532.9
37.5°	1745.6	1830.1	1894.1	1798.5	1704.7	1645.3	1614.6	1596.1	1556.1	1491.2	1467.0
40°	1701.9	1793.8	1839.3	1732.6	1629.5	1586.8	1558.0	1539.4	1449.4	1420.6	1413.2
42.5°	1658.3	1758.6	1772.5	1668.5	1567.3	1524.6	1500.4	1439.2	1377.9	1363.0	1365.8
45°	1616.5	1720.5	1699.1	1577.5	1502.3	1467.0	1426.2	1341.7	1309.2	1316.6	1318.5
47.5°	1566.4	1675.0	1622.1	1486.5	1435.4	1400.2	1309.2	1258.1	1253.5	1263.7	1269.2
50°	1512.5	1623.9	1540.4	1403.9	1363.0	1321.2	1218.2	1192.2	1197.7	1208.0	1214.5
52.5°	1462.4	1566.4	1455.9	1326.8	1291.5	1195.9	1126.3	1130.9	1140.2	1152.3	1156.0
55°	1401.1	1496.7	1365.8	1248.8	1215.4	1090.0	1058.5	1069.6	1078.9	1089.1	1096.5
57.5°	1337.0	1416.9	1259.0	1161.5	1107.7	996.3	999.1	1006.5	1013.0	1025.1	423.4
60°	1263.7	1325.9	1142.0	1080.8	974.0	922.0	924.8	937.8	944.3	527.4	291.5
62.5°	1187.5	1220.0	1036.2	988.8	851.4	847.7	860.7	866.3	589.6	278.5	273.0
65°	1100.3	1093.8	932.2	857.0	767.9	771.6	785.5	757.6	260.9	260.9	259.0
67.5°	1003.7	964.7	831.0	709.4	687.1	695.4	710.3	247.9	241.4	243.3	236.8
70°	893.2	838.4	726.1	600.7	608.2	616.5	239.5	224.7	221.9	217.3	204.3
72.5°	776.2	701.0	594.2	521.8	526.5	330.5	209.8	202.4	193.1	183.8	169.9
75°	645.3	547.8	436.4	436.4	442.9	188.5	182.9	170.8	160.6	148.6	140.2
77.5°	506.0	421.5	338.9	351.9	171.8	157.8	147.6	134.6	126.3	118.8	114.2
80°	370.5	294.3	255.3	228.4	133.7	119.8	109.6	102.1	98.4	93.8	88.2
82.5°	243.3	177.3	177.3	107.7	93.8	82.6	79.8	74.3	70.6	67.8	65.0
85°	116.1	103.1	78.0	65.9	58.5	52.9	51.1	48.3	48.3	47.4	46.4
87.5°	42.7	46.4	34.4	33.4	31.6	30.6	31.6	31.6	32.5	31.6	30.6
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2092.8	2100.2	2105.8	2115.1	2127.2	2137.4	2146.7	2159.7	2180.1	2185.7	2190.3
5°	2155.0	2157.8	2164.3	2171.7	2173.6	2178.2	2177.3	2182.9	2185.7	2192.2	2178.2
7.5°	2158.7	2143.9	2126.2	2110.5	2099.3	2089.1	2082.6	2092.8	2098.4	2103.0	2089.1
10°	2080.7	2063.1	2052.9	2043.6	2032.5	2016.7	1995.3	2000.0	1998.1	1998.1	1993.5
12.5°	2031.5	2006.5	1980.5	1957.3	1947.0	1946.1	1947.0	1957.3	1957.3	1956.3	1950.8
15°	1954.5	1930.3	1917.3	1911.8	1911.8	1909.0	1909.0	1920.1	1917.3	1917.3	1914.5
17.5°	1903.4	1886.7	1877.4	1870.9	1868.1	1872.8	1878.3	1883.0	1883.9	1880.2	1865.3
20°	1861.6	1845.8	1834.7	1836.5	1835.6	1838.4	1841.2	1825.4	1805.9	1779.9	1767.8
22.5°	1818.0	1805.9	1797.6	1797.6	1786.4	1768.8	1742.8	1737.2	1734.4	1722.3	1712.1
25°	1776.2	1762.3	1750.2	1713.1	1689.8	1692.6	1688.0	1678.7	1677.8	1676.8	1680.6
27.5°	1734.4	1698.2	1651.8	1646.2	1636.9	1636.0	1641.6	1646.2	1646.2	1649.9	1654.6
30°	1648.1	1606.3	1597.9	1587.7	1591.4	1604.4	1607.2	1613.7	1615.6	1622.1	1625.8
32.5°	1569.1	1550.6	1543.1	1547.8	1559.9	1571.0	1577.5	1580.3	1584.9	1590.5	1595.1
35°	1505.1	1499.5	1506.0	1516.2	1528.3	1537.6	1543.1	1548.7	1553.4	1558.0	1561.7
37.5°	1457.7	1461.4	1470.7	1483.7	1495.8	1503.2	1507.9	1514.4	1520.9	1526.4	1504.2
40°	1413.2	1422.4	1432.7	1446.6	1456.8	1464.2	1468.9	1477.2	1421.5	643.4	352.8
42.5°	1374.2	1384.4	1391.8	1402.9	1414.1	1419.7	1378.8	615.6	348.2	346.3	351.0
45°	1326.8	1335.2	1347.2	1355.6	1365.8	896.9	342.6	346.3	340.8	344.5	346.3
47.5°	1278.5	1291.5	1298.0	1238.6	368.6	340.8	337.0	340.8	337.0	341.7	338.9
50°	1223.7	1239.5	882.1	333.3	330.5	328.7	332.4	330.5	333.3	337.0	329.6
52.5°	1168.0	723.3	323.1	321.3	323.1	321.3	327.8	323.1	324.0	320.3	311.0
55°	395.5	312.9	310.1	309.2	314.8	314.8	314.8	307.3	302.7	293.4	286.9
57.5°	302.7	302.7	301.8	302.7	300.8	299.0	290.6	284.1	277.6	264.6	260.9
60°	286.9	286.9	286.9	286.9	278.5	274.8	261.8	256.3	245.1	238.6	234.9
62.5°	273.9	272.0	263.7	260.9	251.6	241.4	234.0	228.4	217.3	213.6	210.8
65°	255.3	248.8	238.6	227.5	222.8	211.7	208.0	199.6	194.1	191.3	189.4
67.5°	224.7	215.4	207.1	199.6	191.3	187.6	182.9	176.4	172.7	170.8	169.0
70°	192.2	185.7	177.3	172.7	167.1	164.3	157.8	156.0	153.2	150.4	147.6
72.5°	160.6	156.9	153.2	146.7	144.8	143.0	136.5	132.8	129.1	125.3	123.5
75°	134.6	131.8	130.0	124.4	121.6	116.1	111.4	108.6	105.8	103.1	101.2
77.5°	110.5	108.6	103.1	99.3	97.5	92.8	91.0	91.9	90.1	86.3	84.5
80°	86.3	84.5	79.8	79.8	78.0	76.1	74.3	72.4	70.6	67.8	65.9
82.5°	65.9	64.1	62.2	60.4	58.5	57.6	56.6	54.8	52.9	51.1	50.1
85°	46.4	45.5	44.6	43.6	42.7	41.8	40.9	39.0	37.1	36.2	35.3
87.5°	31.6	30.6	29.7	28.8	27.9	26.9	26.0	25.1	23.2	22.3	21.4
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2190.3	2194.9	2190.3	2180.1	2173.6	2170.8	2176.4	2176.4	2180.1	2184.7	2185.7
5°	2155.9	2144.8	2131.8	2118.8	2112.3	2108.6	2098.4	2100.2	2103.0	2104.9	2106.7
7.5°	2070.5	2055.7	2038.0	2021.3	2014.8	2009.2	1997.2	1997.2	1997.2	1998.1	2003.7
10°	1983.3	1976.8	1969.3	1958.2	1949.8	1947.0	1936.8	1939.6	1937.8	1940.5	1947.0
12.5°	1942.4	1935.0	1928.5	1917.3	1908.0	1904.3	1899.7	1902.5	1901.5	1906.2	1911.8
15°	1905.3	1901.5	1894.1	1885.8	1877.4	1870.0	1853.3	1847.7	1844.0	1839.3	1845.8
17.5°	1844.0	1818.0	1800.3	1787.3	1778.1	1771.6	1766.9	1766.9	1769.7	1772.5	1778.1
20°	1760.4	1753.0	1744.6	1730.7	1721.4	1717.7	1714.9	1714.9	1719.6	1723.3	1733.5
22.5°	1702.8	1701.9	1699.1	1692.6	1688.0	1688.0	1688.9	1690.8	1697.3	1702.8	1713.1
25°	1675.9	1679.6	1677.8	1674.1	1671.3	1672.2	1670.4	1672.2	1678.7	1684.3	1692.6
27.5°	1654.6	1660.1	1658.3	1652.7	1648.1	1649.9	1652.7	1650.9	1656.4	1662.9	1669.4
30°	1625.8	1626.7	1630.4	1623.9	1622.1	1624.9	1625.8	1627.6	1633.2	1637.9	1643.4
32.5°	1593.3	1600.7	1599.8	1593.3	1593.3	1596.1	1597.0	1534.8	1418.7	1221.9	1168.0
35°	1561.7	1570.1	1556.1	1312.0	908.1	484.7	374.2	361.2	364.0	365.8	367.7
37.5°	1155.0	547.8	349.1	351.9	354.7	357.5	360.3	363.0	365.8	368.6	369.5
40°	347.3	346.3	349.1	352.8	355.6	357.5	361.2	364.0	366.8	369.5	370.5
42.5°	343.5	345.4	348.2	351.9	355.6	359.3	362.1	365.8	367.7	369.5	370.5
45°	341.7	345.4	349.1	351.9	354.7	356.5	358.4	359.3	358.4	358.4	360.3
47.5°	338.9	342.6	343.5	342.6	343.5	342.6	342.6	342.6	339.8	338.9	338.9
50°	328.7	328.7	326.8	323.1	322.2	321.3	319.4	318.5	314.8	313.8	313.8
52.5°	307.3	306.4	303.6	299.0	297.1	295.3	294.3	293.4	289.7	287.8	288.8
55°	282.3	280.4	277.6	272.0	271.1	269.3	268.3	267.4	263.7	265.5	262.8
57.5°	259.0	255.3	251.6	250.7	247.0	246.0	245.1	244.2	241.4	242.3	240.5
60°	231.2	230.3	228.4	224.7	224.7	223.8	223.8	221.9	220.1	219.1	219.1
62.5°	210.8	208.0	206.1	206.1	203.3	203.3	203.3	201.5	199.6	200.6	199.6
65°	188.5	187.6	186.6	184.8	184.8	183.8	183.8	182.0	179.2	180.1	178.3
67.5°	169.9	168.1	166.2	165.3	161.6	159.7	158.8	157.8	154.1	155.1	153.2
70°	146.7	143.9	142.1	140.2	137.4	135.6	135.6	133.7	130.9	131.8	130.0
72.5°	122.6	120.7	118.8	117.9	115.1	114.2	113.3	112.3	109.6	110.5	109.6
75°	102.1	102.1	101.2	100.3	97.5	94.7	92.8	91.9	90.1	91.0	89.1
77.5°	84.5	82.6	80.8	80.8	78.0	76.1	74.3	74.3	74.3	73.4	72.4
80°	65.9	64.1	64.1	63.1	61.3	59.4	58.5	58.5	57.6	57.6	56.6
82.5°	50.1	48.3	47.4	47.4	45.5	44.6	43.6	42.7	42.7	42.7	41.8
85°	35.3	33.4	32.5	32.5	30.6	29.7	29.7	28.8	28.8	27.9	27.9
87.5°	21.4	20.4	19.5	19.5	17.6	16.7	16.7	16.7	15.8	15.8	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2185.7	2185.7	2179.2	2181.0	2178.2	2181.9	2177.3	2177.3	2182.9	2182.9	2186.6
5°	2107.7	2103.0	2102.1	2100.2	2091.0	2094.7	2090.0	2085.4	2091.9	2091.9	2100.2
7.5°	2000.9	1992.5	1996.2	1990.7	1985.1	1976.8	1979.5	1975.8	1980.5	1987.0	1995.3
10°	1946.1	1938.7	1943.3	1937.8	1940.5	1928.5	1929.4	1930.3	1935.0	1936.8	1944.3
12.5°	1910.8	1909.0	1907.1	1905.3	1907.1	1900.6	1896.9	1897.8	1899.7	1900.6	1906.2
15°	1836.5	1824.5	1828.2	1815.2	1816.1	1817.1	1809.6	1817.1	1816.1	1828.2	1839.3
17.5°	1776.2	1776.2	1769.7	1764.1	1760.4	1759.5	1753.9	1757.6	1753.9	1761.3	1764.1
20°	1734.4	1733.5	1732.6	1729.8	1720.5	1721.4	1724.2	1715.8	1714.9	1714.0	1719.6
22.5°	1714.9	1715.8	1712.1	1712.1	1703.8	1705.6	1706.6	1697.3	1698.2	1695.4	1698.2
25°	1694.5	1696.3	1691.7	1691.7	1689.8	1688.9	1684.3	1686.1	1680.6	1675.9	1680.6
27.5°	1670.4	1674.1	1670.4	1672.2	1668.5	1666.6	1663.9	1662.0	1656.4	1655.5	1658.3
30°	1648.1	1649.9	1649.0	1644.4	1643.4	1637.9	1640.6	1635.1	1629.5	1630.4	1632.3
32.5°	844.9	806.9	622.1	561.7	556.2	576.6	683.4	831.9	1078.0	1316.6	1488.4
35°	368.6	368.6	368.6	367.7	367.7	366.8	365.8	364.9	364.0	363.0	362.1
37.5°	370.5	370.5	370.5	370.5	369.5	368.6	368.6	366.8	365.8	364.9	364.0
40°	371.4	372.3	372.3	372.3	371.4	371.4	370.5	368.6	367.7	365.8	364.0
42.5°	370.5	371.4	371.4	370.5	370.5	369.5	369.5	368.6	367.7	366.8	365.8
45°	358.4	359.3	357.5	357.5	356.5	356.5	356.5	356.5	356.5	357.5	357.5
47.5°	337.0	337.0	336.1	335.2	335.2	334.3	335.2	334.3	336.1	337.0	338.9
50°	312.0	312.0	310.1	309.2	309.2	309.2	309.2	310.1	311.0	312.9	314.8
52.5°	286.0	286.0	285.0	284.1	283.2	283.2	286.0	285.0	286.0	286.9	289.7
55°	260.9	261.8	260.0	260.0	259.0	259.0	259.0	260.0	260.9	261.8	264.6
57.5°	239.5	239.5	237.7	237.7	237.7	236.8	239.5	237.7	238.6	239.5	241.4
60°	218.2	217.3	217.3	216.3	216.3	216.3	218.2	217.3	217.3	218.2	220.1
62.5°	198.7	198.7	197.8	197.8	196.8	196.8	198.7	197.8	197.8	198.7	199.6
65°	176.4	176.4	175.5	174.6	177.3	174.6	177.3	175.5	177.3	178.3	180.1
67.5°	151.3	151.3	151.3	150.4	150.4	152.3	153.2	151.3	152.3	154.1	155.1
70°	129.1	129.1	128.1	128.1	128.1	130.0	130.9	129.1	130.0	130.9	132.8
72.5°	109.6	107.7	107.7	106.8	108.6	108.6	109.6	108.6	109.6	109.6	111.4
75°	90.1	88.2	88.2	88.2	90.1	89.1	90.1	89.1	90.1	90.1	91.0
77.5°	72.4	71.5	70.6	70.6	72.4	72.4	72.4	71.5	72.4	73.4	74.3
80°	56.6	55.7	54.8	54.8	56.6	56.6	56.6	57.6	56.6	57.6	58.5
82.5°	41.8	40.9	39.9	41.8	41.8	41.8	41.8	42.7	41.8	42.7	43.6
85°	27.9	26.9	26.0	27.9	27.9	27.9	27.9	28.8	27.9	28.8	29.7
87.5°	14.9	13.9	13.9	14.9	14.9	14.9	15.8	15.8	15.8	16.7	16.7
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-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2192.2	2194.9	2194.0	2188.4	2182.9	2176.4	2171.7	2172.7	2181.9	2184.7	2176.4
5°	2100.2	2117.9	2117.9	2130.0	2123.5	2117.9	2121.6	2142.0	2152.2	2168.0	2173.6
7.5°	2005.5	2013.9	2013.0	2025.0	2023.2	2023.2	2026.0	2052.9	2065.9	2078.9	2082.6
10°	1952.6	1961.0	1960.0	1961.0	1958.2	1951.7	1951.7	1963.8	1974.9	1981.4	1983.3
12.5°	1914.5	1919.2	1918.3	1918.3	1916.4	1910.8	1909.9	1920.1	1932.2	1940.5	1941.5
15°	1857.9	1870.9	1873.7	1885.8	1883.0	1875.5	1877.4	1885.8	1893.2	1900.6	1897.8
17.5°	1773.4	1779.9	1780.8	1785.5	1783.6	1783.6	1794.8	1825.4	1845.8	1863.5	1865.3
20°	1725.1	1729.8	1727.9	1738.1	1733.5	1732.6	1735.3	1748.3	1757.6	1766.0	1780.8
22.5°	1701.9	1705.6	1702.8	1703.8	1695.4	1688.0	1686.1	1696.3	1706.6	1717.7	1717.7
25°	1682.4	1685.2	1684.3	1682.4	1675.9	1665.7	1663.9	1665.7	1669.4	1670.4	1663.9
27.5°	1659.2	1661.1	1661.1	1662.0	1653.6	1644.4	1642.5	1640.6	1644.4	1643.4	1633.2
30°	1635.1	1632.3	1633.2	1634.1	1626.7	1618.4	1614.6	1613.7	1617.4	1616.5	1606.3
32.5°	1577.5	1598.9	1600.7	1602.6	1596.1	1588.6	1584.9	1582.1	1584.0	1583.1	1573.8
35°	361.2	367.7	450.3	1019.5	1384.4	1532.9	1548.7	1545.0	1545.9	1545.9	1538.5
37.5°	362.1	361.2	360.3	357.5	354.7	352.8	610.0	1300.8	1506.9	1507.9	1501.4
40°	362.1	361.2	360.3	358.4	354.7	351.9	347.3	343.5	351.9	774.4	1416.9
42.5°	364.0	362.1	360.3	358.4	354.7	351.0	347.3	342.6	345.4	343.5	338.9
45°	358.4	357.5	357.5	356.5	354.7	351.0	346.3	340.8	338.0	340.8	336.1
47.5°	340.8	341.7	344.5	345.4	345.4	346.3	343.5	339.8	335.2	338.0	332.4
50°	316.6	318.5	319.4	324.0	325.9	329.6	330.5	330.5	329.6	333.3	329.6
52.5°	290.6	292.5	297.1	299.0	300.8	306.4	308.3	311.0	312.9	318.5	322.2
55°	265.5	266.5	268.3	272.0	274.8	279.5	282.3	285.0	289.7	292.5	303.6
57.5°	242.3	243.3	247.0	247.9	249.8	253.5	256.3	260.0	263.7	265.5	278.5
60°	220.1	221.0	223.8	224.7	225.6	229.3	232.1	234.9	237.7	239.5	248.8
62.5°	200.6	200.6	203.3	203.3	204.3	207.1	208.9	210.8	213.6	214.5	219.1
65°	181.1	182.0	183.8	183.8	184.8	186.6	187.6	188.5	191.3	191.3	195.0
67.5°	156.9	157.8	160.6	162.5	163.4	167.1	168.1	169.0	170.8	171.8	173.6
70°	133.7	134.6	137.4	138.3	139.3	142.1	143.9	146.7	149.5	152.3	154.1
72.5°	112.3	113.3	116.1	116.1	118.8	119.8	121.6	122.6	125.3	127.2	130.0
75°	91.9	92.8	95.6	95.6	98.4	99.3	100.3	101.2	103.1	104.9	106.8
77.5°	75.2	75.2	78.9	80.8	82.6	82.6	83.6	83.6	83.6	84.5	86.3
80°	59.4	59.4	62.2	64.1	65.9	65.9	66.9	67.8	68.7	68.7	69.6
82.5°	44.6	44.6	47.4	48.3	50.1	50.1	50.1	51.1	52.0	51.1	52.9
85°	30.6	30.6	32.5	33.4	35.3	35.3	35.3	36.2	37.1	36.2	37.1
87.5°	17.6	18.6	19.5	20.4	21.4	22.3	22.3	22.3	23.2	23.2	24.1
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-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2167.1	2155.9	2155.0	2142.0	2138.3	2139.2	2129.0	2125.3	2108.6	2104.9	2087.2
5°	2175.4	2181.0	2178.2	2177.3	2180.1	2178.2	2170.8	2167.1	2164.3	2156.9	2142.0
7.5°	2083.5	2087.2	2090.0	2102.1	2112.3	2130.0	2148.5	2160.6	2169.9	2171.7	2159.7
10°	1989.8	2007.4	2019.5	2038.0	2052.9	2063.1	2074.2	2084.5	2111.4	2138.3	2154.1
12.5°	1941.5	1946.1	1945.2	1955.4	1965.6	1992.5	2018.5	2033.4	2053.8	2065.9	2094.7
15°	1900.6	1901.5	1904.3	1911.8	1917.3	1926.6	1938.7	1961.0	2001.8	2020.4	2036.2
17.5°	1863.5	1863.5	1865.3	1871.8	1879.3	1887.6	1895.0	1904.3	1924.8	1955.4	1994.4
20°	1804.1	1830.1	1832.8	1831.9	1835.6	1851.4	1853.3	1870.0	1880.2	1892.3	1930.3
22.5°	1715.8	1731.6	1753.9	1788.3	1801.3	1808.7	1814.3	1821.7	1837.5	1851.4	1867.2
25°	1667.6	1677.8	1684.3	1694.5	1721.4	1765.1	1773.4	1781.8	1792.0	1802.2	1821.7
27.5°	1624.9	1623.9	1628.6	1637.9	1645.3	1668.5	1709.3	1741.8	1743.7	1758.6	1775.3
30°	1594.2	1588.6	1582.1	1580.3	1590.5	1602.6	1614.6	1665.7	1701.0	1708.4	1726.1
32.5°	1565.4	1556.1	1546.9	1539.4	1532.9	1543.1	1550.6	1572.9	1618.4	1661.1	1670.4
35°	1530.1	1520.9	1509.7	1501.4	1491.2	1490.2	1489.3	1510.7	1525.5	1576.6	1621.1
37.5°	1493.9	1483.7	1474.4	1465.2	1454.9	1447.5	1442.9	1448.4	1462.4	1484.7	1558.9
40°	1455.9	1443.8	1434.5	1427.1	1413.2	1407.6	1398.3	1394.6	1395.5	1415.0	1454.0
42.5°	870.0	1387.2	1391.8	1383.4	1371.4	1363.9	1353.7	1349.1	1339.8	1349.1	1371.4
45°	335.2	338.9	1014.8	1340.7	1325.9	1316.6	1307.3	1302.7	1292.5	1285.0	1305.5
47.5°	328.7	332.4	325.0	460.5	1265.5	1268.3	1257.2	1252.5	1242.3	1236.7	1231.2
50°	324.0	326.8	321.3	323.1	316.6	1159.7	1206.1	1200.5	1189.4	1182.9	1171.8
52.5°	319.4	319.4	315.7	311.0	309.2	310.1	975.8	1147.6	1134.6	1128.1	1113.3
55°	304.5	306.4	310.1	302.7	300.8	299.9	297.1	929.4	1074.3	1066.8	1053.8
57.5°	282.3	286.0	296.2	294.3	294.3	286.9	285.0	285.0	862.6	1004.6	991.6
60°	256.3	260.0	271.1	274.8	277.6	275.8	273.9	273.0	269.3	909.0	925.7
62.5°	229.3	233.1	236.8	248.8	252.5	257.2	262.8	260.0	256.3	256.3	856.1
65°	200.6	206.1	208.0	219.1	223.8	232.1	236.8	243.3	241.4	240.5	245.1
67.5°	175.5	182.0	182.9	187.6	195.9	199.6	205.2	217.3	222.8	224.7	226.6
70°	154.1	157.8	160.6	162.5	168.1	169.0	179.2	187.6	195.9	205.2	208.0
72.5°	132.8	135.6	141.1	139.3	141.1	144.8	150.4	156.0	164.3	177.3	185.7
75°	108.6	110.5	114.2	116.1	119.8	122.6	126.3	130.9	138.3	144.8	156.0
77.5°	87.3	88.2	91.0	91.9	95.6	98.4	104.9	107.7	112.3	117.0	123.5
80°	70.6	70.6	71.5	71.5	74.3	77.1	81.7	84.5	90.1	93.8	93.8
82.5°	53.9	53.9	56.6	56.6	58.5	58.5	61.3	61.3	64.1	65.9	67.8
85°	38.1	39.0	40.9	39.9	41.8	40.9	42.7	44.6	45.5	44.6	43.6
87.5°	25.1	25.1	26.9	26.0	26.9	26.9	28.8	28.8	29.7	29.7	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2080.7	2066.8	2058.5	2048.2	2045.5	2042.7	2046.4	2046.4	2040.8	2036.2	2027.8
5°	2129.0	2114.2	2098.4	2081.7	2065.9	2049.2	2042.7	2041.7	2031.5	2026.0	2023.2
7.5°	2154.1	2146.7	2129.0	2105.8	2081.7	2052.0	2039.0	2031.5	2021.3	2019.5	2019.5
10°	2156.9	2148.5	2139.2	2122.5	2094.7	2055.7	2030.6	2015.7	2006.5	2013.0	2025.0
12.5°	2130.0	2145.7	2137.4	2126.2	2104.0	2056.6	2020.4	1998.1	1995.3	2012.0	2043.6
15°	2061.2	2107.7	2130.9	2119.7	2102.1	2054.7	2003.7	1977.7	1977.7	2012.0	2052.9
17.5°	2009.2	2045.5	2102.1	2111.4	2091.0	2051.0	1987.9	1957.3	1965.6	2015.7	2059.4
20°	1966.5	1988.8	2043.6	2095.6	2076.1	2042.7	1964.7	1933.1	1949.8	2010.2	2068.7
22.5°	1899.7	1944.3	1977.7	2054.7	2061.2	2026.9	1941.5	1903.4	1936.8	2010.2	2064.0
25°	1834.7	1888.5	1923.8	1999.0	2039.0	2007.4	1920.1	1871.8	1922.9	2007.4	2060.3
27.5°	1789.2	1814.3	1878.3	1932.2	2005.5	1981.4	1891.3	1837.5	1905.3	1992.5	2039.0
30°	1740.9	1757.6	1820.8	1871.8	1961.0	1951.7	1861.6	1799.4	1883.0	1978.6	1983.3
32.5°	1688.0	1706.6	1739.1	1813.3	1898.8	1923.8	1828.2	1761.3	1858.8	1957.3	1918.3
35°	1634.1	1648.1	1674.1	1753.9	1826.3	1882.0	1787.3	1717.7	1842.1	1924.8	1856.0
37.5°	1580.3	1595.1	1617.4	1684.3	1750.2	1843.0	1752.1	1674.1	1811.5	1867.2	1791.1
40°	1529.2	1537.6	1560.8	1602.6	1687.1	1803.1	1712.1	1628.6	1779.9	1793.8	1702.8
42.5°	1435.4	1477.2	1498.6	1532.0	1615.6	1748.3	1665.7	1580.3	1744.6	1720.5	1614.6
45°	1334.2	1425.2	1434.5	1467.9	1552.4	1689.8	1622.1	1532.9	1711.2	1657.4	1531.1
47.5°	1251.6	1317.5	1371.4	1399.2	1477.2	1621.1	1581.2	1493.0	1661.1	1577.5	1449.4
50°	1178.3	1213.5	1311.0	1331.5	1387.2	1538.5	1532.9	1446.6	1591.4	1477.2	1369.5
52.5°	1106.8	1131.8	1220.0	1263.7	1309.2	1449.4	1475.4	1401.1	1515.3	1376.9	1288.7
55°	1044.5	1052.9	1101.2	1193.1	1234.0	1359.3	1412.2	1348.2	1418.7	1281.3	1210.7
57.5°	980.5	973.1	1008.3	1126.3	1156.0	1267.4	1345.4	1294.3	1340.7	1183.8	1130.0
60°	913.6	903.4	918.3	996.3	1073.3	1176.4	1266.5	1234.9	1246.0	1087.3	1039.9
62.5°	844.0	833.8	829.1	878.3	992.6	1082.6	1186.6	1169.0	1130.0	999.1	928.5
65°	771.6	761.4	753.9	773.4	903.4	961.0	1097.5	1092.8	1002.8	906.2	781.8
67.5°	234.9	692.7	676.9	675.9	761.4	850.5	1000.9	993.5	874.6	806.9	673.2
70°	211.7	561.7	597.0	588.7	625.8	738.1	890.4	884.8	750.2	647.2	595.2
72.5°	194.1	198.7	527.4	518.1	526.5	627.7	775.3	760.4	636.0	510.7	514.4
75°	166.2	174.6	182.0	437.3	426.2	520.0	649.9	626.7	524.6	421.5	429.9
77.5°	135.6	145.8	151.3	318.5	344.5	370.5	519.0	488.4	361.2	337.0	160.6
80°	101.2	109.6	118.8	127.2	261.8	259.0	385.3	354.7	251.6	209.8	125.3
82.5°	74.3	77.1	82.6	91.9	104.0	173.6	247.9	218.2	174.6	95.6	86.3
85°	46.4	50.1	52.9	55.7	63.1	104.0	122.6	97.5	73.4	58.5	54.8
87.5°	29.7	29.7	28.8	29.7	30.6	37.1	41.8	39.9	31.6	29.7	29.7
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-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2018.5	2005.5	2005.5	2001.8	2004.6	2004.6	2003.7	2004.6	2011.1	2014.8	2021.3
5°	2017.6	2013.9	2022.2	2032.5	2044.5	2059.4	2063.1	2076.1	2088.2	2104.0	2120.7
7.5°	2029.7	2042.7	2058.5	2075.2	2099.3	2117.0	2132.7	2148.5	2159.7	2174.5	2183.8
10°	2047.3	2073.3	2100.2	2121.6	2147.6	2162.4	2172.7	2174.5	2158.7	2133.7	2113.2
12.5°	2072.4	2103.0	2128.1	2148.5	2160.6	2155.0	2125.3	2094.7	2077.0	2051.0	2014.8
15°	2093.7	2121.6	2147.6	2139.2	2106.7	2076.1	2052.9	2016.7	1981.4	1957.3	1941.5
17.5°	2103.0	2130.0	2120.7	2077.0	2046.4	2011.1	1963.8	1935.9	1912.7	1894.1	1884.8
20°	2108.6	2104.0	2053.8	2022.2	1962.8	1930.3	1899.7	1873.7	1856.0	1846.8	1844.9
22.5°	2093.7	2037.1	1994.4	1937.8	1894.1	1867.2	1843.0	1821.7	1809.6	1802.2	1797.6
25°	2044.5	1978.6	1915.5	1870.9	1833.8	1810.6	1792.0	1774.3	1759.5	1755.8	1746.5
27.5°	1975.8	1922.0	1838.4	1804.1	1771.6	1760.4	1740.0	1722.3	1709.3	1698.2	1668.5
30°	1919.2	1833.8	1773.4	1741.8	1722.3	1709.3	1686.1	1667.6	1645.3	1604.4	1587.7
32.5°	1849.5	1765.1	1707.5	1689.8	1665.7	1654.6	1628.6	1587.7	1553.4	1536.6	1535.7
35°	1759.5	1689.8	1648.1	1632.3	1612.8	1594.2	1540.4	1503.2	1486.5	1488.4	1502.3
37.5°	1684.3	1622.1	1595.1	1572.9	1550.6	1503.2	1457.7	1440.1	1444.7	1454.0	1460.5
40°	1608.1	1560.8	1530.1	1512.5	1462.4	1415.9	1391.8	1398.3	1406.7	1413.2	1421.5
42.5°	1533.9	1500.4	1469.8	1435.4	1366.7	1341.7	1347.2	1355.6	1363.0	1372.3	1380.7
45°	1463.3	1433.6	1398.3	1320.3	1286.0	1292.5	1300.8	1307.3	1318.5	1325.0	1333.3
47.5°	1396.4	1364.9	1302.7	1234.0	1230.2	1243.2	1250.7	1259.0	1267.4	1250.7	689.9
50°	1321.2	1288.7	1194.0	1168.0	1176.4	1188.5	1197.7	1206.1	1074.3	427.1	328.7
52.5°	1247.0	1164.3	1104.0	1111.4	1119.8	1133.7	1140.2	846.8	337.0	321.3	322.2
55°	1164.3	1058.5	1040.8	1050.1	1057.5	1071.5	710.3	311.0	309.2	308.3	315.7
57.5°	1034.3	970.3	977.7	987.0	994.4	701.9	302.7	300.8	301.8	302.7	303.6
60°	918.3	904.3	912.7	921.1	651.8	292.5	286.9	287.8	291.5	288.8	281.3
62.5°	826.4	837.5	845.9	740.9	277.6	274.8	277.6	274.8	268.3	263.7	254.4
65°	755.8	766.9	773.4	260.9	260.0	263.7	260.9	251.6	241.4	228.4	225.6
67.5°	681.5	692.7	247.9	241.4	245.1	240.5	229.3	218.2	210.8	199.6	195.0
70°	604.4	259.0	224.7	223.8	217.3	209.8	197.8	186.6	177.3	172.7	168.1
72.5°	436.4	205.2	202.4	195.0	183.8	173.6	163.4	156.9	152.3	149.5	146.7
75°	182.0	178.3	169.9	156.9	145.8	141.1	133.7	129.1	127.2	121.6	119.8
77.5°	152.3	144.8	132.8	123.5	117.0	114.2	108.6	103.1	100.3	99.3	95.6
80°	117.0	106.8	101.2	96.6	94.7	88.2	81.7	78.9	77.1	76.1	73.4
82.5°	79.8	76.1	72.4	65.9	65.9	63.1	60.4	58.5	56.6	56.6	54.8
85°	52.0	49.2	48.3	45.5	45.5	43.6	42.7	41.8	40.9	39.9	39.0
87.5°	29.7	29.7	30.6	29.7	29.7	28.8	27.9	26.9	26.0	26.0	24.1
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-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2029.7	2039.0	2040.8	2072.4	2090.0	2089.1	2083.5	2100.2	2090.0	2084.5	2090.0
5°	2137.4	2148.5	2157.8	2192.2	2204.2	2209.8	2208.9	2218.2	2210.7	2204.2	2204.2
7.5°	2190.3	2194.0	2197.7	2189.4	2183.8	2174.5	2160.6	2140.2	2130.0	2118.8	2104.9
10°	2103.0	2091.0	2095.6	2078.9	2065.0	2054.7	2041.7	2025.0	2011.1	2000.9	1985.1
12.5°	1996.2	1995.3	1997.2	2000.0	1986.0	1977.7	1967.5	1955.4	1945.2	1934.0	1921.0
15°	1931.3	1932.2	1939.6	1936.8	1932.2	1927.5	1916.4	1912.7	1903.4	1891.3	1883.9
17.5°	1884.8	1889.5	1896.9	1893.2	1885.8	1881.1	1872.8	1864.4	1856.0	1846.8	1835.6
20°	1844.0	1848.6	1853.3	1848.6	1834.7	1828.2	1817.1	1791.1	1772.5	1753.9	1737.2
22.5°	1799.4	1802.2	1798.5	1783.6	1748.3	1731.6	1718.6	1711.2	1695.4	1685.2	1675.0
25°	1743.7	1727.9	1703.8	1687.1	1673.1	1665.7	1660.1	1659.2	1657.4	1655.5	1650.9
27.5°	1652.7	1647.1	1634.1	1627.6	1628.6	1631.4	1632.3	1635.1	1632.3	1628.6	1624.9
30°	1584.9	1587.7	1588.6	1590.5	1595.1	1597.9	1598.9	1602.6	1600.7	1597.9	1596.1
32.5°	1542.2	1548.7	1552.4	1558.0	1560.8	1565.4	1565.4	1571.0	1565.4	1564.5	1562.6
35°	1506.9	1512.5	1514.4	1522.7	1525.5	1530.1	1530.1	1534.8	1530.1	1482.8	1170.8
37.5°	1471.7	1477.2	1480.9	1488.4	1489.3	1492.1	1376.9	1007.4	649.9	503.2	384.4
40°	1429.9	1436.4	1440.1	1442.9	1013.9	643.4	442.9	360.3	360.3	363.0	365.8
42.5°	1385.3	1389.9	968.4	563.6	351.0	350.0	352.8	355.6	358.4	362.1	365.8
45°	1089.1	549.7	349.1	340.8	343.5	347.3	351.0	354.7	359.3	363.0	364.9
47.5°	357.5	335.2	339.8	336.1	340.8	345.4	349.1	352.8	353.8	354.7	353.8
50°	330.5	330.5	333.3	333.3	337.0	338.9	338.9	338.9	335.2	334.3	331.5
52.5°	319.4	326.8	323.1	325.0	323.1	320.3	317.5	314.8	309.2	307.3	303.6
55°	313.8	316.6	307.3	304.5	300.8	293.4	289.7	286.0	281.3	279.5	274.8
57.5°	300.8	294.3	284.1	279.5	273.0	265.5	261.8	259.0	254.4	252.5	249.8
60°	276.7	263.7	257.2	251.6	244.2	237.7	234.9	233.1	229.3	228.4	225.6
62.5°	247.0	235.8	230.3	222.8	217.3	213.6	210.8	209.8	206.1	206.1	204.3
65°	214.5	208.9	204.3	196.8	194.1	190.3	189.4	188.5	186.6	185.7	183.8
67.5°	188.5	184.8	178.3	174.6	172.7	169.9	168.1	166.2	162.5	160.6	157.8
70°	165.3	162.5	156.0	153.2	149.5	144.8	142.1	140.2	137.4	135.6	132.8
72.5°	143.0	134.6	130.0	127.2	124.4	119.8	118.8	117.0	114.2	113.3	110.5
75°	115.1	108.6	105.8	104.0	101.2	98.4	98.4	98.4	95.6	94.7	93.8
77.5°	91.9	88.2	86.3	84.5	83.6	81.7	78.9	78.0	75.2	75.2	74.3
80°	70.6	68.7	66.9	65.9	65.0	63.1	61.3	60.4	57.6	57.6	56.6
82.5°	52.0	51.1	50.1	49.2	48.3	47.4	44.6	43.6	41.8	41.8	40.9
85°	37.1	36.2	34.4	33.4	33.4	32.5	29.7	28.8	26.9	26.9	26.9
87.5°	23.2	22.3	21.4	20.4	19.5	18.6	16.7	15.8	15.8	13.9	13.0
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-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2078.9	2094.7	2092.8	2104.0	2106.7	2112.3	2114.2	2115.1	2101.2	2112.3	2113.2
5°	2201.4	2204.2	2206.1	2210.7	2215.4	2216.3	2211.7	2206.1	2207.9	2204.2	2194.9
7.5°	2103.0	2089.1	2086.3	2082.6	2080.7	2078.9	2070.5	2078.0	2069.6	2065.9	2052.9
10°	1982.3	1969.3	1968.4	1968.4	1971.2	1970.3	1968.4	1964.7	1972.1	1967.5	1964.7
12.5°	1919.2	1914.5	1917.3	1915.5	1922.9	1924.8	1922.9	1922.9	1921.0	1917.3	1919.2
15°	1881.1	1877.4	1880.2	1877.4	1883.0	1883.9	1879.3	1882.0	1877.4	1872.8	1870.9
17.5°	1831.0	1822.6	1816.1	1806.8	1807.8	1805.9	1800.3	1800.3	1795.7	1783.6	1784.6
20°	1734.4	1726.1	1722.3	1722.3	1727.0	1728.8	1727.9	1729.8	1725.1	1723.3	1715.8
22.5°	1674.1	1673.1	1675.0	1679.6	1687.1	1697.3	1698.2	1698.2	1698.2	1697.3	1688.0
25°	1652.7	1652.7	1654.6	1661.1	1666.6	1674.1	1675.9	1677.8	1675.9	1675.9	1667.6
27.5°	1628.6	1626.7	1630.4	1636.9	1643.4	1649.0	1653.6	1654.6	1651.8	1651.8	1654.6
30°	1598.9	1597.9	1602.6	1609.1	1614.6	1620.2	1624.9	1628.6	1624.9	1624.9	1622.1
32.5°	1568.2	1568.2	1570.1	1531.1	1419.7	1278.5	1281.3	1199.6	1143.0	1071.5	1166.2
35°	978.6	712.2	611.9	518.1	452.2	409.5	408.5	394.6	388.1	383.5	382.5
37.5°	369.5	371.4	375.1	377.0	379.8	381.6	382.5	382.5	382.5	382.5	381.6
40°	368.6	372.3	375.1	377.9	380.7	382.5	382.5	383.5	384.4	384.4	384.4
42.5°	369.5	373.3	377.0	379.8	381.6	382.5	383.5	384.4	384.4	384.4	384.4
45°	368.6	370.5	370.5	371.4	371.4	371.4	372.3	372.3	371.4	370.5	372.3
47.5°	354.7	354.7	351.9	351.0	350.0	348.2	349.1	348.2	347.3	346.3	348.2
50°	330.5	326.8	325.0	323.1	322.2	320.3	321.3	320.3	319.4	317.5	320.3
52.5°	301.8	300.8	297.1	295.3	294.3	295.3	293.4	292.5	291.5	290.6	291.5
55°	273.9	270.2	269.3	267.4	266.5	267.4	266.5	265.5	264.6	263.7	264.6
57.5°	248.8	246.0	245.1	243.3	243.3	243.3	243.3	242.3	241.4	240.5	241.4
60°	224.7	222.8	221.9	221.9	221.0	221.0	221.0	220.1	219.1	219.1	220.1
62.5°	204.3	204.3	201.5	200.6	200.6	201.5	200.6	199.6	198.7	197.8	199.6
65°	182.9	179.2	178.3	176.4	174.6	175.5	174.6	173.6	172.7	171.8	173.6
67.5°	156.9	156.0	152.3	150.4	149.5	150.4	149.5	148.6	147.6	146.7	148.6
70°	131.8	131.8	128.1	127.2	126.3	126.3	125.3	125.3	124.4	123.5	125.3
72.5°	109.6	109.6	108.6	106.8	105.8	104.9	104.0	103.1	103.1	104.0	104.0
75°	91.0	89.1	85.4	86.3	85.4	84.5	84.5	83.6	82.6	84.5	83.6
77.5°	71.5	70.6	67.8	68.7	67.8	66.9	66.9	65.9	65.0	65.9	65.9
80°	53.9	53.9	52.9	52.0	52.0	51.1	50.1	50.1	49.2	50.1	50.1
82.5°	39.0	39.0	38.1	37.1	36.2	36.2	35.3	35.3	35.3	35.3	35.3
85°	25.1	24.1	24.1	22.3	22.3	22.3	21.4	21.4	21.4	21.4	21.4
87.5°	12.1	12.1	11.1	11.1	10.2	9.3	9.3	8.4	8.4	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2096.5	2108.6	2098.4	2103.0	2104.0	2119.7	2118.8	2122.5	2116.0	2108.6	2098.4
5°	2203.3	2197.7	2190.3	2207.9	2198.7	2209.8	2213.5	2220.9	2220.9	2220.0	2211.7
7.5°	2066.8	2054.7	2064.0	2070.5	2073.3	2065.9	2080.7	2097.5	2111.4	2119.7	2120.7
10°	1960.0	1963.8	1962.8	1965.6	1972.1	1971.2	1980.5	1989.8	1993.5	1999.0	2000.9
12.5°	1909.9	1909.0	1910.8	1917.3	1921.0	1920.1	1929.4	1935.0	1936.8	1937.8	1936.8
15°	1870.0	1863.5	1868.1	1869.0	1871.8	1871.8	1883.0	1891.3	1895.0	1896.9	1895.0
17.5°	1794.8	1779.0	1793.8	1793.8	1804.1	1802.2	1819.8	1833.8	1841.2	1846.8	1846.8
20°	1720.5	1713.1	1718.6	1716.8	1724.2	1723.3	1734.4	1743.7	1750.2	1754.8	1760.4
22.5°	1690.8	1692.6	1684.3	1685.2	1685.2	1684.3	1689.8	1694.5	1696.3	1699.1	1697.3
25°	1671.3	1673.1	1670.4	1665.7	1663.9	1665.7	1668.5	1674.1	1675.0	1673.1	1666.6
27.5°	1651.8	1646.2	1650.9	1642.5	1640.6	1644.4	1648.1	1649.0	1649.9	1649.9	1644.4
30°	1622.1	1617.4	1622.1	1618.4	1614.6	1618.4	1621.1	1621.1	1623.0	1623.9	1617.4
32.5°	1133.7	1143.0	1293.4	1384.4	1512.5	1577.5	1589.6	1589.6	1591.4	1591.4	1585.9
35°	386.3	387.2	418.7	454.0	529.2	622.1	743.7	806.9	1020.4	1275.7	1522.7
37.5°	381.6	380.7	379.8	378.8	377.9	377.0	375.1	374.2	379.8	450.3	610.9
40°	383.5	382.5	380.7	379.8	378.8	377.0	376.0	374.2	372.3	370.5	368.6
42.5°	383.5	382.5	381.6	380.7	379.8	378.8	377.0	375.1	373.3	370.5	367.7
45°	370.5	370.5	371.4	371.4	372.3	372.3	372.3	371.4	371.4	370.5	366.8
47.5°	346.3	346.3	349.1	349.1	351.0	352.8	352.8	354.7	357.5	359.3	360.3
50°	318.5	318.5	321.3	322.2	324.0	326.8	329.6	330.5	333.3	337.0	340.8
52.5°	290.6	290.6	293.4	293.4	295.3	298.0	300.8	301.8	305.5	309.2	313.8
55°	264.6	264.6	266.5	267.4	268.3	270.2	273.0	273.0	276.7	279.5	284.1
57.5°	241.4	243.3	243.3	243.3	244.2	246.0	247.9	247.9	250.7	253.5	257.2
60°	219.1	221.0	221.0	221.0	221.9	222.8	224.7	224.7	226.6	228.4	232.1
62.5°	198.7	200.6	200.6	201.5	201.5	202.4	204.3	203.3	205.2	206.1	208.9
65°	172.7	174.6	175.5	176.4	177.3	179.2	182.0	181.1	183.8	185.7	188.5
67.5°	147.6	149.5	149.5	150.4	151.3	153.2	155.1	155.1	157.8	159.7	163.4
70°	124.4	126.3	126.3	127.2	128.1	130.0	131.8	130.9	133.7	135.6	138.3
72.5°	103.1	104.9	104.9	105.8	105.8	107.7	109.6	111.4	111.4	113.3	115.1
75°	83.6	84.5	85.4	85.4	86.3	87.3	89.1	91.0	91.9	92.8	94.7
77.5°	65.9	66.9	67.8	67.8	68.7	69.6	70.6	74.3	76.1	77.1	77.1
80°	50.1	51.1	51.1	51.1	52.0	52.9	54.8	54.8	58.5	58.5	59.4
82.5°	35.3	36.2	36.2	36.2	37.1	39.0	39.9	40.9	42.7	43.6	43.6
85°	21.4	22.3	22.3	22.3	23.2	24.1	26.0	26.9	27.9	27.9	28.8
87.5°	8.4	9.3	10.2	10.2	11.1	12.1	13.0	13.9	14.9	14.9	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2087.2	2093.7	2087.2	2091.0	2095.6	2087.2	2067.7	2060.3	2057.5	2046.4	2039.0
5°	2203.3	2203.3	2200.5	2207.9	2207.0	2194.0	2173.6	2164.3	2155.0	2143.0	2133.7
7.5°	2120.7	2128.1	2132.7	2161.5	2180.1	2181.9	2194.9	2197.7	2201.4	2197.7	2192.2
10°	2001.8	1999.0	2012.0	2039.0	2054.7	2063.1	2088.2	2100.2	2110.5	2130.9	2152.2
12.5°	1935.0	1938.7	1944.3	1963.8	1978.6	1974.9	1985.1	1993.5	2005.5	2026.0	2056.6
15°	1890.4	1894.1	1899.7	1914.5	1923.8	1919.2	1924.8	1930.3	1938.7	1948.9	1967.5
17.5°	1842.1	1848.6	1855.1	1870.9	1879.3	1878.3	1883.0	1884.8	1887.6	1894.1	1907.1
20°	1766.9	1787.3	1800.3	1821.7	1833.8	1831.9	1840.3	1843.0	1846.8	1853.3	1858.8
22.5°	1698.2	1703.8	1710.3	1733.5	1753.9	1779.0	1784.6	1792.0	1801.3	1807.8	1813.3
25°	1659.2	1655.5	1658.3	1674.1	1685.2	1687.1	1695.4	1719.6	1744.6	1755.8	1768.8
27.5°	1636.0	1632.3	1631.4	1638.8	1640.6	1636.0	1634.1	1641.6	1660.1	1678.7	1717.7
30°	1610.9	1606.3	1602.6	1609.1	1611.9	1605.4	1593.3	1586.8	1597.9	1602.6	1618.4
32.5°	1581.2	1576.6	1574.7	1578.4	1580.3	1574.7	1561.7	1554.3	1552.4	1548.7	1552.4
35°	1547.8	1543.1	1540.4	1541.3	1545.0	1540.4	1529.2	1519.9	1515.3	1505.1	1497.7
37.5°	797.6	1130.0	1467.0	1502.3	1506.0	1505.1	1493.9	1483.7	1479.1	1467.0	1463.3
40°	364.9	407.6	611.9	799.4	1153.2	1465.2	1454.9	1444.7	1436.4	1432.7	1418.7
42.5°	364.0	364.9	365.8	361.2	447.5	762.3	1125.3	1404.8	1399.2	1389.9	1379.7
45°	364.0	359.3	363.0	357.5	359.3	358.4	446.6	720.5	1282.2	1339.8	1335.2
47.5°	360.3	357.5	361.2	356.5	351.0	353.8	350.0	354.7	553.4	938.7	1286.0
50°	343.5	345.4	351.9	351.0	346.3	350.0	343.5	349.1	344.5	377.9	727.9
52.5°	318.5	322.2	328.7	334.3	336.1	340.8	338.9	340.8	337.0	338.0	338.9
55°	288.8	293.4	299.0	307.3	311.0	318.5	324.0	326.8	331.5	330.5	323.1
57.5°	260.9	265.5	270.2	278.5	286.9	290.6	300.8	306.4	318.5	315.7	313.8
60°	234.9	238.6	243.3	245.1	255.3	261.8	271.1	276.7	292.5	296.2	301.8
62.5°	211.7	213.6	217.3	220.1	226.6	233.1	237.7	247.0	255.3	267.4	275.8
65°	190.3	192.2	195.0	196.8	197.8	207.1	209.8	220.1	222.8	235.8	243.3
67.5°	166.2	169.9	173.6	175.5	177.3	182.9	184.8	189.4	195.9	201.5	210.8
70°	141.1	143.9	147.6	150.4	154.1	157.8	163.4	166.2	170.8	174.6	182.0
72.5°	117.9	120.7	122.6	125.3	128.1	130.9	135.6	142.1	145.8	152.3	154.1
75°	95.6	98.4	100.3	102.1	104.9	106.8	108.6	115.1	118.8	124.4	130.0
77.5°	78.9	78.9	80.8	86.3	85.4	85.4	87.3	91.0	93.8	97.5	103.1
80°	61.3	62.2	63.1	67.8	68.7	69.6	68.7	71.5	74.3	75.2	78.9
82.5°	45.5	46.4	46.4	49.2	52.0	52.0	52.0	52.9	55.7	56.6	58.5
85°	30.6	31.6	32.5	33.4	35.3	36.2	37.1	37.1	39.0	39.9	40.9
87.5°	16.7	18.6	19.5	20.4	21.4	22.3	23.2	24.1	25.1	26.0	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2036.2	2031.5	2028.7	2021.3	2019.5	2007.4	2009.2	2007.4	2007.4	2010.2	2019.5
5°	2123.5	2101.2	2095.6	2079.8	2066.8	2044.5	2030.6	2023.2	2012.0	2007.4	2013.9
7.5°	2182.9	2166.2	2152.2	2138.3	2119.7	2093.7	2074.2	2052.0	2033.4	2015.7	2011.1
10°	2172.7	2191.2	2191.2	2182.9	2165.2	2139.2	2116.0	2088.2	2055.7	2027.8	2011.1
12.5°	2086.3	2118.8	2144.8	2164.3	2181.9	2164.3	2141.1	2118.8	2082.6	2041.7	2011.1
15°	1991.6	2025.0	2057.5	2098.4	2141.1	2158.7	2157.8	2131.8	2099.3	2056.6	2013.9
17.5°	1924.8	1948.0	1965.6	2010.2	2062.2	2107.7	2138.3	2140.2	2108.6	2070.5	2014.8
20°	1874.6	1891.3	1906.2	1931.3	1976.8	2032.5	2089.1	2120.7	2115.1	2073.3	2017.6
22.5°	1829.1	1841.2	1853.3	1871.8	1908.0	1944.3	2010.2	2075.2	2103.0	2068.7	2014.8
25°	1783.6	1796.6	1805.9	1818.9	1847.7	1877.4	1923.8	2004.6	2066.8	2065.0	2009.2
27.5°	1729.8	1747.4	1758.6	1776.2	1795.7	1818.0	1849.5	1925.7	2014.8	2046.4	1994.4
30°	1664.8	1690.8	1707.5	1727.0	1743.7	1763.2	1788.3	1834.7	1945.2	2010.2	1978.6
32.5°	1571.0	1617.4	1654.6	1673.1	1691.7	1708.4	1730.7	1769.7	1859.8	1961.0	1961.0
35°	1504.2	1525.5	1558.9	1612.8	1636.0	1652.7	1673.1	1703.8	1761.3	1902.5	1932.2
37.5°	1452.2	1460.5	1477.2	1530.1	1573.8	1600.7	1621.1	1640.6	1697.3	1822.6	1895.0
40°	1413.2	1410.4	1408.5	1433.6	1495.8	1538.5	1561.7	1581.2	1624.9	1727.0	1845.8
42.5°	1367.7	1364.9	1355.6	1362.1	1392.7	1464.2	1499.5	1520.9	1557.1	1626.7	1792.0
45°	1320.3	1315.7	1312.0	1305.5	1316.6	1356.5	1428.9	1460.5	1480.9	1543.1	1724.2
47.5°	1272.0	1265.5	1260.9	1255.3	1248.8	1267.4	1336.1	1392.7	1428.0	1467.0	1642.5
50°	1203.3	1211.7	1206.1	1199.6	1194.0	1190.3	1219.1	1312.0	1355.6	1387.2	1543.1
52.5°	567.3	1103.0	1149.5	1143.0	1135.5	1129.0	1135.5	1206.1	1285.0	1310.1	1423.4
55°	323.1	491.2	1022.3	1080.8	1074.3	1065.0	1059.4	1083.5	1201.5	1234.9	1313.8
57.5°	311.0	312.0	451.2	974.0	1010.2	1001.8	995.3	1000.9	1101.2	1157.8	1218.2
60°	300.8	300.8	300.8	430.8	931.3	934.1	925.7	916.4	960.1	1071.5	1121.6
62.5°	278.5	284.1	286.9	286.9	425.2	862.6	854.2	851.4	853.3	967.5	1025.1
65°	249.8	262.8	268.3	272.0	272.0	446.6	780.9	776.2	769.7	813.4	927.6
67.5°	218.2	231.2	243.3	250.7	251.6	260.0	466.1	699.2	689.9	690.8	823.6
70°	185.7	196.8	209.8	221.0	231.2	235.8	243.3	580.3	610.9	597.9	705.7
72.5°	160.6	165.3	174.6	185.7	197.8	208.9	215.4	231.2	530.2	516.2	536.7
75°	133.7	137.4	143.9	151.3	160.6	173.6	184.8	195.9	281.3	432.7	429.9
77.5°	104.0	110.5	117.9	122.6	127.2	136.5	151.3	162.5	173.6	292.5	344.5
80°	79.8	84.5	88.2	92.8	98.4	104.9	110.5	123.5	136.5	146.7	263.7
82.5°	59.4	62.2	65.0	66.9	68.7	72.4	82.6	87.3	95.6	104.9	124.4
85°	41.8	43.6	45.5	46.4	47.4	48.3	52.0	52.9	61.3	63.1	75.2
87.5°	26.9	27.9	29.7	30.6	30.6	31.6	32.5	32.5	32.5	30.6	37.1
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-LD5-57HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2026.0	2026.0
2.5°	2026.9	2041.7
5°	2024.1	2043.6
7.5°	2016.7	2035.2
10°	2005.5	2027.8
12.5°	1993.5	2014.8
15°	1983.3	1999.0
17.5°	1972.1	1981.4
20°	1957.3	1964.7
22.5°	1942.4	1938.7
25°	1925.7	1917.3
27.5°	1904.3	1888.5
30°	1884.8	1857.0
32.5°	1866.3	1820.8
35°	1841.2	1783.6
37.5°	1815.2	1745.6
40°	1784.6	1701.9
42.5°	1752.1	1658.3
45°	1711.2	1616.5
47.5°	1675.0	1566.4
50°	1624.9	1512.5
52.5°	1563.6	1462.4
55°	1491.2	1401.1
57.5°	1413.2	1337.0
60°	1329.6	1263.7
62.5°	1228.4	1187.5
65°	1109.5	1100.3
67.5°	954.5	1003.7
70°	782.7	893.2
72.5°	654.6	776.2
75°	536.7	645.3
77.5°	425.2	506.0
80°	265.5	370.5
82.5°	178.3	243.3
85°	107.7	116.1
87.5°	41.8	42.7
90°	0.0	0.0

(END OF REPORT)