

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: **8SNLED-LD5-57SL-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: 8SNLED-LD5-57SL-RW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

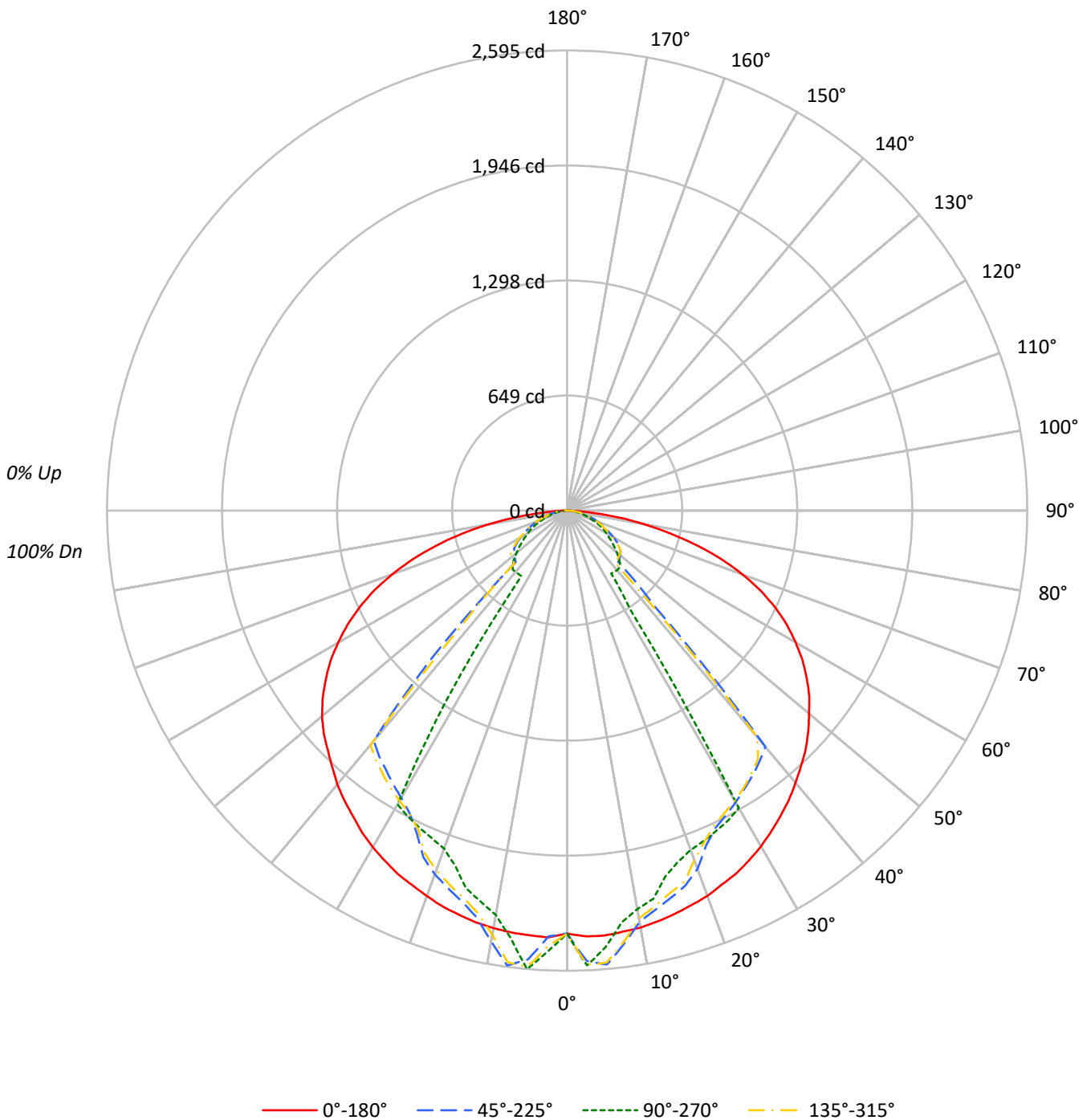
Lumens per Lamp: N/A
Luminaire Lumens: 4776.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 42
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			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°	9637	9637	9637	9637
5°	9744	9709	9740	10190
10°	9767	8778	9781	8913
15°	9803	8122	9826	8380
20°	9889	7703	9889	7675
25°	9990	7556	10004	7485
30°	10108	7423	10133	7335
35°	10245	1690	10266	1763
40°	10431	1758	10494	1815
45°	10707	1748	10743	1812
50°	10988	1581	11136	1623
55°	11365	1404	11456	1423
60°	11705	1247	11731	1263
65°	11982	1088	11952	1071
70°	11911	877	11873	846
75°	11206	675	11286	647
80°	9321	480	9695	439
85°	5373	287	5676	220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	4.9
10°-20°	645.2	13.5
20°-30°	955.7	20.0
30°-40°	962.9	20.2
40°-50°	752.2	15.7
50°-60°	581.0	12.2
60°-70°	390.1	8.2
70°-80°	199.0	4.2
80°-90°	55.4	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°	1835.5	38.4
0°-40°	2798.4	58.6
0°-60°	4131.6	86.5
0°-90°	4776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4776.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2385	2385	2385	2385	2385	
5°	2406	2472	2405	2595	2406	229
15°	2353	2137	2359	2205	2353	666
25°	2257	1992	2260	1973	2257	1041
35°	2100	433	2104	451	2100	1316
45°	1903	421	1910	436	1903	1467
55°	1649	306	1662	310	1649	1473
65°	1295	206	1292	202	1295	1274
75°	760	104	765	100	760	794
85°	137	33	144	25	137	188
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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2403.6	2412.3	2418.9	2423.3	2425.5	2425.5	2426.5	2427.6	2441.8	2448.4	2452.8
5°	2405.8	2414.5	2427.6	2445.1	2460.4	2473.5	2484.5	2499.8	2515.1	2531.5	2536.9
7.5°	2395.9	2406.9	2433.1	2464.8	2494.3	2515.1	2529.3	2539.1	2546.8	2547.9	2553.3
10°	2387.2	2406.9	2442.9	2484.5	2521.6	2546.8	2546.8	2541.3	2549.0	2519.5	2489.9
12.5°	2371.9	2393.8	2442.9	2497.6	2532.6	2542.4	2538.0	2516.2	2471.4	2435.3	2418.9
15°	2353.3	2382.8	2444.0	2505.2	2534.8	2538.0	2496.5	2440.8	2406.9	2385.0	2357.7
17.5°	2332.5	2371.9	2445.1	2506.3	2517.3	2502.0	2423.3	2388.3	2353.3	2301.9	2264.8
20°	2312.9	2351.1	2436.4	2491.0	2497.6	2428.7	2367.5	2330.4	2271.3	2226.5	2210.1
22.5°	2282.3	2327.1	2428.7	2470.3	2445.1	2365.3	2306.3	2247.3	2193.7	2180.6	2160.9
25°	2257.1	2304.1	2411.2	2445.1	2378.5	2307.4	2238.5	2169.7	2144.5	2126.0	2108.5
27.5°	2223.2	2281.2	2388.3	2399.2	2307.4	2245.1	2144.5	2113.9	2091.0	2070.2	2062.6
30°	2186.1	2257.1	2356.6	2335.8	2248.4	2156.6	2082.2	2053.8	2037.4	2015.6	2006.8
32.5°	2143.4	2221.1	2321.6	2262.6	2185.0	2070.2	2022.1	2000.3	1978.4	1962.0	1907.4
35°	2099.7	2189.4	2280.1	2192.6	2108.5	2004.6	1962.0	1942.3	1921.6	1861.4	1804.6
37.5°	2054.9	2154.4	2229.8	2117.2	2006.8	1936.9	1900.8	1878.9	1831.9	1755.4	1727.0
40°	2003.5	2111.8	2165.3	2039.6	1918.3	1868.0	1834.1	1812.3	1706.2	1672.3	1663.6
42.5°	1952.2	2070.2	2086.6	1964.2	1845.1	1794.8	1766.4	1694.2	1622.1	1604.6	1607.9
45°	1903.0	2025.4	2000.3	1857.1	1768.5	1727.0	1678.9	1579.4	1541.2	1549.9	1552.1
47.5°	1844.0	1971.8	1909.5	1750.0	1689.8	1648.3	1541.2	1481.1	1475.6	1487.6	1494.2
50°	1780.6	1911.7	1813.4	1652.7	1604.6	1555.4	1434.1	1403.5	1410.0	1422.0	1429.7
52.5°	1721.5	1844.0	1713.9	1562.0	1520.4	1407.8	1325.9	1331.3	1342.3	1356.5	1360.8
55°	1649.4	1762.0	1607.9	1470.1	1430.8	1283.2	1246.1	1259.2	1270.1	1282.1	1290.9
57.5°	1574.0	1668.0	1482.2	1367.4	1304.0	1172.8	1176.1	1184.9	1192.5	1206.7	498.4
60°	1487.6	1560.9	1344.4	1272.3	1146.6	1085.4	1088.7	1104.0	1111.6	620.8	343.2
62.5°	1398.0	1436.3	1219.8	1164.1	1002.3	997.9	1013.2	1019.8	694.1	327.9	321.4
65°	1295.3	1287.6	1097.4	1008.9	903.9	908.3	924.7	891.9	307.1	307.1	305.0
67.5°	1181.6	1135.7	978.3	835.1	808.8	818.7	836.2	291.8	284.2	286.4	278.7
70°	1051.5	987.0	854.8	707.2	715.9	725.8	282.0	264.5	261.2	255.8	240.5
72.5°	913.8	825.2	699.5	614.3	619.8	389.1	247.0	238.3	227.4	216.4	200.0
75°	759.7	644.9	513.7	513.7	521.4	221.9	215.3	201.1	189.1	174.9	165.0
77.5°	595.7	496.2	399.0	414.3	202.2	185.8	173.8	158.5	148.7	139.9	134.4
80°	436.1	346.5	300.6	268.9	157.4	141.0	129.0	120.2	115.9	110.4	103.8
82.5°	286.4	208.8	208.8	126.8	110.4	97.3	94.0	87.4	83.1	79.8	76.5
85°	136.6	121.3	91.8	77.6	68.9	62.3	60.1	56.8	56.8	55.7	54.7
87.5°	50.3	54.7	40.4	39.3	37.2	36.1	37.2	37.2	38.3	37.2	36.1
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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2463.7	2472.5	2479.0	2489.9	2504.2	2516.2	2527.1	2542.4	2566.5	2573.0	2578.5
5°	2536.9	2540.2	2547.9	2556.6	2558.8	2564.3	2563.2	2569.7	2573.0	2580.7	2564.3
7.5°	2541.3	2523.8	2503.1	2484.5	2471.4	2459.3	2451.7	2463.7	2470.3	2475.7	2459.3
10°	2449.5	2428.7	2416.7	2405.8	2392.7	2374.1	2348.9	2354.4	2352.2	2352.2	2346.8
12.5°	2391.6	2362.1	2331.5	2304.1	2292.1	2291.0	2292.1	2304.1	2304.1	2303.0	2296.5
15°	2300.8	2272.4	2257.1	2250.6	2250.6	2247.3	2247.3	2260.4	2257.1	2257.1	2253.8
17.5°	2240.7	2221.1	2210.1	2202.5	2199.2	2204.7	2211.2	2216.7	2217.8	2213.4	2195.9
20°	2191.5	2173.0	2159.8	2162.0	2160.9	2164.2	2167.5	2148.9	2126.0	2095.4	2081.1
22.5°	2140.2	2126.0	2116.1	2116.1	2103.0	2082.2	2051.6	2045.1	2041.8	2027.6	2015.6
25°	2091.0	2074.6	2060.4	2016.7	1989.3	1992.6	1987.1	1976.2	1975.1	1974.0	1978.4
27.5°	2041.8	1999.2	1944.5	1938.0	1927.0	1925.9	1932.5	1938.0	1938.0	1942.3	1947.8
30°	1940.1	1891.0	1881.1	1869.1	1873.5	1888.8	1892.1	1899.7	1901.9	1909.5	1913.9
32.5°	1847.2	1825.4	1816.6	1822.1	1836.3	1849.4	1857.1	1860.4	1865.8	1872.4	1877.8
35°	1771.8	1765.3	1772.9	1784.9	1799.1	1810.1	1816.6	1823.2	1828.7	1834.1	1838.5
37.5°	1716.1	1720.4	1731.4	1746.7	1760.9	1769.6	1775.1	1782.7	1790.4	1797.0	1770.7
40°	1663.6	1674.5	1686.6	1703.0	1715.0	1723.7	1729.2	1739.0	1673.4	757.5	415.4
42.5°	1617.7	1629.7	1638.5	1651.6	1664.7	1671.3	1623.2	724.7	409.9	407.7	413.2
45°	1562.0	1571.8	1586.0	1595.8	1607.9	1055.9	403.3	407.7	401.1	405.5	407.7
47.5°	1505.1	1520.4	1528.1	1458.1	433.9	401.1	396.8	401.1	396.8	402.2	399.0
50°	1440.6	1459.2	1038.4	392.4	389.1	386.9	391.3	389.1	392.4	396.8	388.0
52.5°	1375.0	851.5	380.4	378.2	380.4	378.2	385.8	380.4	381.5	377.1	366.2
55°	465.6	368.4	365.1	364.0	370.5	370.5	370.5	361.8	356.3	345.4	337.7
57.5°	356.3	356.3	355.2	356.3	354.1	352.0	342.1	334.5	326.8	311.5	307.1
60°	337.7	337.7	337.7	337.7	327.9	323.5	308.2	301.7	288.6	280.9	276.5
62.5°	322.4	320.3	310.4	307.1	296.2	284.2	275.4	268.9	255.8	251.4	248.1
65°	300.6	292.9	280.9	267.8	262.3	249.2	244.8	235.0	228.4	225.2	223.0
67.5°	264.5	253.6	243.7	235.0	225.2	220.8	215.3	207.7	203.3	201.1	198.9
70°	226.3	218.6	208.8	203.3	196.7	193.5	185.8	183.6	180.4	177.1	173.8
72.5°	189.1	184.7	180.4	172.7	170.5	168.3	160.7	156.3	151.9	147.6	145.4
75°	158.5	155.2	153.0	146.5	143.2	136.6	131.2	127.9	124.6	121.3	119.1
77.5°	130.1	127.9	121.3	117.0	114.8	109.3	107.1	108.2	106.0	101.7	99.5
80°	101.7	99.5	94.0	94.0	91.8	89.6	87.4	85.3	83.1	79.8	77.6
82.5°	77.6	75.4	73.2	71.0	68.9	67.8	66.7	64.5	62.3	60.1	59.0
85°	54.7	53.6	52.5	51.4	50.3	49.2	48.1	45.9	43.7	42.6	41.5
87.5°	37.2	36.1	35.0	33.9	32.8	31.7	30.6	29.5	27.3	26.2	25.1
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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2578.5	2583.9	2578.5	2566.5	2558.8	2555.5	2562.1	2562.1	2566.5	2571.9	2573.0
5°	2538.0	2524.9	2509.6	2494.3	2486.7	2482.3	2470.3	2472.5	2475.7	2477.9	2480.1
7.5°	2437.5	2420.0	2399.2	2379.5	2371.9	2365.3	2351.1	2351.1	2351.1	2352.2	2358.8
10°	2334.7	2327.1	2318.3	2305.2	2295.4	2292.1	2280.1	2283.4	2281.2	2284.5	2292.1
12.5°	2286.6	2277.9	2270.2	2257.1	2246.2	2241.8	2236.4	2239.6	2238.5	2244.0	2250.6
15°	2242.9	2238.5	2229.8	2220.0	2210.1	2201.4	2181.7	2175.1	2170.8	2165.3	2173.0
17.5°	2170.8	2140.2	2119.4	2104.1	2093.2	2085.5	2080.1	2080.1	2083.3	2086.6	2093.2
20°	2072.4	2063.7	2053.8	2037.4	2026.5	2022.1	2018.8	2018.8	2024.3	2028.7	2040.7
22.5°	2004.6	2003.5	2000.3	1992.6	1987.1	1987.1	1988.2	1990.4	1998.1	2004.6	2016.7
25°	1972.9	1977.3	1975.1	1970.7	1967.5	1968.6	1966.4	1968.6	1976.2	1982.8	1992.6
27.5°	1947.8	1954.4	1952.2	1945.6	1940.1	1942.3	1945.6	1943.4	1950.0	1957.6	1965.3
30°	1913.9	1915.0	1919.4	1911.7	1909.5	1912.8	1913.9	1916.1	1922.7	1928.1	1934.7
32.5°	1875.7	1884.4	1883.3	1875.7	1875.7	1878.9	1880.0	1806.8	1670.2	1438.4	1375.0
35°	1838.5	1848.3	1831.9	1544.5	1069.0	570.6	440.5	425.2	428.5	430.7	432.8
37.5°	1359.7	644.9	411.0	414.3	417.5	420.8	424.1	427.4	430.7	433.9	435.0
40°	408.8	407.7	411.0	415.4	418.6	420.8	425.2	428.5	431.8	435.0	436.1
42.5°	404.4	406.6	409.9	414.3	418.6	423.0	426.3	430.7	432.8	435.0	436.1
45°	402.2	406.6	411.0	414.3	417.5	419.7	421.9	423.0	421.9	421.9	424.1
47.5°	399.0	403.3	404.4	403.3	404.4	403.3	403.3	403.3	400.1	399.0	399.0
50°	386.9	386.9	384.7	380.4	379.3	378.2	376.0	374.9	370.5	369.4	369.4
52.5°	361.8	360.7	357.4	352.0	349.8	347.6	346.5	345.4	341.0	338.8	339.9
55°	332.3	330.1	326.8	320.3	319.2	317.0	315.9	314.8	310.4	312.6	309.3
57.5°	305.0	300.6	296.2	295.1	290.7	289.7	288.6	287.5	284.2	285.3	283.1
60°	272.2	271.1	268.9	264.5	264.5	263.4	263.4	261.2	259.1	258.0	258.0
62.5°	248.1	244.8	242.7	242.7	239.4	239.4	239.4	237.2	235.0	236.1	235.0
65°	221.9	220.8	219.7	217.5	217.5	216.4	216.4	214.2	211.0	212.0	209.9
67.5°	200.0	197.8	195.7	194.6	190.2	188.0	186.9	185.8	181.4	182.5	180.4
70°	172.7	169.4	167.2	165.0	161.8	159.6	159.6	157.4	154.1	155.2	153.0
72.5°	144.3	142.1	139.9	138.8	135.5	134.4	133.4	132.3	129.0	130.1	129.0
75°	120.2	120.2	119.1	118.0	114.8	111.5	109.3	108.2	106.0	107.1	104.9
77.5°	99.5	97.3	95.1	95.1	91.8	89.6	87.4	87.4	87.4	86.4	85.3
80°	77.6	75.4	75.4	74.3	72.1	70.0	68.9	68.9	67.8	67.8	66.7
82.5°	59.0	56.8	55.7	55.7	53.6	52.5	51.4	50.3	50.3	50.3	49.2
85°	41.5	39.3	38.3	38.3	36.1	35.0	35.0	33.9	33.9	32.8	32.8
87.5°	25.1	24.0	23.0	23.0	20.8	19.7	19.7	19.7	18.6	18.6	17.5
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2573.0	2573.0	2565.4	2567.5	2564.3	2568.6	2563.2	2563.2	2569.7	2569.7	2574.1
5°	2481.2	2475.7	2474.6	2472.5	2461.5	2465.9	2460.4	2455.0	2462.6	2462.6	2472.5
7.5°	2355.5	2345.7	2350.0	2343.5	2336.9	2327.1	2330.4	2326.0	2331.5	2339.1	2348.9
10°	2291.0	2282.3	2287.7	2281.2	2284.5	2270.2	2271.3	2272.4	2277.9	2280.1	2288.8
12.5°	2249.5	2247.3	2245.1	2242.9	2245.1	2237.5	2233.1	2234.2	2236.4	2237.5	2244.0
15°	2162.0	2147.8	2152.2	2136.9	2138.0	2139.1	2130.3	2139.1	2138.0	2152.2	2165.3
17.5°	2091.0	2091.0	2083.3	2076.8	2072.4	2071.3	2064.8	2069.1	2064.8	2073.5	2076.8
20°	2041.8	2040.7	2039.6	2036.3	2025.4	2026.5	2029.8	2019.9	2018.8	2017.8	2024.3
22.5°	2018.8	2019.9	2015.6	2015.6	2005.7	2007.9	2009.0	1998.1	1999.2	1995.9	1999.2
25°	1994.8	1997.0	1991.5	1991.5	1989.3	1988.2	1982.8	1985.0	1978.4	1972.9	1978.4
27.5°	1966.4	1970.7	1966.4	1968.6	1964.2	1962.0	1958.7	1956.5	1950.0	1948.9	1952.2
30°	1940.1	1942.3	1941.2	1935.8	1934.7	1928.1	1931.4	1924.8	1918.3	1919.4	1921.6
32.5°	994.7	949.9	732.3	661.3	654.7	678.8	804.5	979.4	1269.0	1549.9	1752.1
35°	433.9	433.9	433.9	432.8	432.8	431.8	430.7	429.6	428.5	427.4	426.3
37.5°	436.1	436.1	436.1	436.1	435.0	433.9	433.9	431.8	430.7	429.6	428.5
40°	437.2	438.3	438.3	438.3	437.2	437.2	436.1	433.9	432.8	430.7	428.5
42.5°	436.1	437.2	437.2	436.1	436.1	435.0	435.0	433.9	432.8	431.8	430.7
45°	421.9	423.0	420.8	420.8	419.7	419.7	419.7	419.7	419.7	420.8	420.8
47.5°	396.8	396.8	395.7	394.6	394.6	393.5	394.6	393.5	395.7	396.8	399.0
50°	367.3	367.3	365.1	364.0	364.0	364.0	364.0	365.1	366.2	368.4	370.5
52.5°	336.7	336.7	335.6	334.5	333.4	333.4	336.7	335.6	336.7	337.7	341.0
55°	307.1	308.2	306.1	306.1	305.0	305.0	305.0	306.1	307.1	308.2	311.5
57.5°	282.0	282.0	279.8	279.8	279.8	278.7	282.0	279.8	280.9	282.0	284.2
60°	256.9	255.8	255.8	254.7	254.7	254.7	256.9	255.8	255.8	256.9	259.1
62.5°	233.9	233.9	232.8	232.8	231.7	231.7	233.9	232.8	232.8	233.9	235.0
65°	207.7	207.7	206.6	205.5	208.8	205.5	208.8	206.6	208.8	209.9	212.0
67.5°	178.2	178.2	178.2	177.1	177.1	179.3	180.4	178.2	179.3	181.4	182.5
70°	151.9	151.9	150.8	150.8	150.8	153.0	154.1	151.9	153.0	154.1	156.3
72.5°	129.0	126.8	126.8	125.7	127.9	127.9	129.0	127.9	129.0	129.0	131.2
75°	106.0	103.8	103.8	103.8	106.0	104.9	106.0	104.9	106.0	106.0	107.1
77.5°	85.3	84.2	83.1	83.1	85.3	85.3	85.3	84.2	85.3	86.4	87.4
80°	66.7	65.6	64.5	64.5	66.7	66.7	66.7	67.8	66.7	67.8	68.9
82.5°	49.2	48.1	47.0	49.2	49.2	49.2	49.2	50.3	49.2	50.3	51.4
85°	32.8	31.7	30.6	32.8	32.8	32.8	32.8	33.9	32.8	33.9	35.0
87.5°	17.5	16.4	16.4	17.5	17.5	17.5	18.6	18.6	18.6	19.7	19.7
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2580.7	2583.9	2582.9	2576.3	2569.7	2562.1	2556.6	2557.7	2568.6	2571.9	2562.1
5°	2472.5	2493.2	2493.2	2507.4	2499.8	2493.2	2497.6	2521.6	2533.7	2552.2	2558.8
7.5°	2361.0	2370.8	2369.7	2383.9	2381.7	2381.7	2385.0	2416.7	2432.0	2447.3	2451.7
10°	2298.7	2308.5	2307.4	2308.5	2305.2	2297.6	2297.6	2311.8	2324.9	2332.5	2334.7
12.5°	2253.8	2259.3	2258.2	2258.2	2256.0	2249.5	2248.4	2260.4	2274.6	2284.5	2285.5
15°	2187.2	2202.5	2205.8	2220.0	2216.7	2207.9	2210.1	2220.0	2228.7	2237.5	2234.2
17.5°	2087.7	2095.4	2096.4	2101.9	2099.7	2099.7	2112.8	2148.9	2173.0	2193.7	2195.9
20°	2030.9	2036.3	2034.1	2046.2	2040.7	2039.6	2042.9	2058.2	2069.1	2079.0	2096.4
22.5°	2003.5	2007.9	2004.6	2005.7	1995.9	1987.1	1985.0	1997.0	2009.0	2022.1	2022.1
25°	1980.6	1983.9	1982.8	1980.6	1972.9	1960.9	1958.7	1960.9	1965.3	1966.4	1958.7
27.5°	1953.3	1955.4	1955.4	1956.5	1946.7	1935.8	1933.6	1931.4	1935.8	1934.7	1922.7
30°	1924.8	1921.6	1922.7	1923.7	1915.0	1905.2	1900.8	1899.7	1904.1	1903.0	1891.0
32.5°	1857.1	1882.2	1884.4	1886.6	1878.9	1870.2	1865.8	1862.5	1864.7	1863.6	1852.7
35°	425.2	432.8	530.1	1200.2	1629.7	1804.6	1823.2	1818.8	1819.9	1819.9	1811.2
37.5°	426.3	425.2	424.1	420.8	417.5	415.4	718.1	1531.3	1774.0	1775.1	1767.4
40°	426.3	425.2	424.1	421.9	417.5	414.3	408.8	404.4	414.3	911.6	1668.0
42.5°	428.5	426.3	424.1	421.9	417.5	413.2	408.8	403.3	406.6	404.4	399.0
45°	421.9	420.8	420.8	419.7	417.5	413.2	407.7	401.1	397.9	401.1	395.7
47.5°	401.1	402.2	405.5	406.6	406.6	407.7	404.4	400.1	394.6	397.9	391.3
50°	372.7	374.9	376.0	381.5	383.7	388.0	389.1	389.1	388.0	392.4	388.0
52.5°	342.1	344.3	349.8	352.0	354.1	360.7	362.9	366.2	368.4	374.9	379.3
55°	312.6	313.7	315.9	320.3	323.5	329.0	332.3	335.6	341.0	344.3	357.4
57.5°	285.3	286.4	290.7	291.8	294.0	298.4	301.7	306.1	310.4	312.6	327.9
60°	259.1	260.1	263.4	264.5	265.6	270.0	273.3	276.5	279.8	282.0	292.9
62.5°	236.1	236.1	239.4	239.4	240.5	243.7	245.9	248.1	251.4	252.5	258.0
65°	213.1	214.2	216.4	216.4	217.5	219.7	220.8	221.9	225.2	225.2	229.5
67.5°	184.7	185.8	189.1	191.3	192.4	196.7	197.8	198.9	201.1	202.2	204.4
70°	157.4	158.5	161.8	162.9	164.0	167.2	169.4	172.7	176.0	179.3	181.4
72.5°	132.3	133.4	136.6	136.6	139.9	141.0	143.2	144.3	147.6	149.7	153.0
75°	108.2	109.3	112.6	112.6	115.9	117.0	118.0	119.1	121.3	123.5	125.7
77.5°	88.5	88.5	92.9	95.1	97.3	97.3	98.4	98.4	98.4	99.5	101.7
80°	70.0	70.0	73.2	75.4	77.6	77.6	78.7	79.8	80.9	80.9	82.0
82.5°	52.5	52.5	55.7	56.8	59.0	59.0	59.0	60.1	61.2	60.1	62.3
85°	36.1	36.1	38.3	39.3	41.5	41.5	41.5	42.6	43.7	42.6	43.7
87.5°	20.8	21.9	23.0	24.0	25.1	26.2	26.2	26.2	27.3	27.3	28.4
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2551.2	2538.0	2536.9	2521.6	2517.3	2518.4	2506.3	2502.0	2482.3	2477.9	2457.2
5°	2561.0	2567.5	2564.3	2563.2	2566.5	2564.3	2555.5	2551.2	2547.9	2539.1	2521.6
7.5°	2452.8	2457.2	2460.4	2474.6	2486.7	2507.4	2529.3	2543.5	2554.4	2556.6	2542.4
10°	2342.4	2363.2	2377.4	2399.2	2416.7	2428.7	2441.8	2453.9	2485.6	2517.3	2535.9
12.5°	2285.5	2291.0	2289.9	2301.9	2314.0	2345.7	2376.3	2393.8	2417.8	2432.0	2465.9
15°	2237.5	2238.5	2241.8	2250.6	2257.1	2268.1	2282.3	2308.5	2356.6	2378.5	2397.0
17.5°	2193.7	2193.7	2195.9	2203.6	2212.3	2222.1	2230.9	2241.8	2265.9	2301.9	2347.8
20°	2123.8	2154.4	2157.7	2156.6	2160.9	2179.5	2181.7	2201.4	2213.4	2227.6	2272.4
22.5°	2019.9	2038.5	2064.8	2105.2	2120.5	2129.2	2135.8	2144.5	2163.1	2179.5	2198.1
25°	1963.1	1975.1	1982.8	1994.8	2026.5	2077.9	2087.7	2097.5	2109.6	2121.6	2144.5
27.5°	1912.8	1911.7	1917.2	1928.1	1936.9	1964.2	2012.3	2050.5	2052.7	2070.2	2089.9
30°	1876.7	1870.2	1862.5	1860.4	1872.4	1886.6	1900.8	1960.9	2002.4	2011.2	2032.0
32.5°	1842.9	1831.9	1821.0	1812.3	1804.6	1816.6	1825.4	1851.6	1905.2	1955.4	1966.4
35°	1801.3	1790.4	1777.3	1767.4	1755.4	1754.3	1753.2	1778.4	1795.9	1856.0	1908.4
37.5°	1758.7	1746.7	1735.7	1724.8	1712.8	1704.0	1698.6	1705.1	1721.5	1747.8	1835.2
40°	1713.9	1699.7	1688.7	1680.0	1663.6	1657.0	1646.1	1641.7	1642.8	1665.8	1711.7
42.5°	1024.2	1633.0	1638.5	1628.6	1614.4	1605.7	1593.7	1588.2	1577.3	1588.2	1614.4
45°	394.6	399.0	1194.7	1578.3	1560.9	1549.9	1539.0	1533.5	1521.5	1512.8	1536.8
47.5°	386.9	391.3	382.6	542.1	1489.8	1493.1	1480.0	1474.5	1462.5	1455.9	1449.4
50°	381.5	384.7	378.2	380.4	372.7	1365.2	1419.9	1413.3	1400.2	1392.5	1379.4
52.5°	376.0	376.0	371.6	366.2	364.0	365.1	1148.8	1351.0	1335.7	1328.0	1310.6
55°	358.5	360.7	365.1	356.3	354.1	353.1	349.8	1094.1	1264.6	1255.9	1240.6
57.5°	332.3	336.7	348.7	346.5	346.5	337.7	335.6	335.6	1015.4	1182.7	1167.4
60°	301.7	306.1	319.2	323.5	326.8	324.6	322.4	321.4	317.0	1070.1	1089.8
62.5°	270.0	274.4	278.7	292.9	297.3	302.8	309.3	306.1	301.7	301.7	1007.8
65°	236.1	242.7	244.8	258.0	263.4	273.3	278.7	286.4	284.2	283.1	288.6
67.5°	206.6	214.2	215.3	220.8	230.6	235.0	241.6	255.8	262.3	264.5	266.7
70°	181.4	185.8	189.1	191.3	197.8	198.9	211.0	220.8	230.6	241.6	244.8
72.5°	156.3	159.6	166.1	164.0	166.1	170.5	177.1	183.6	193.5	208.8	218.6
75°	127.9	130.1	134.4	136.6	141.0	144.3	148.7	154.1	162.9	170.5	183.6
77.5°	102.7	103.8	107.1	108.2	112.6	115.9	123.5	126.8	132.3	137.7	145.4
80°	83.1	83.1	84.2	84.2	87.4	90.7	96.2	99.5	106.0	110.4	110.4
82.5°	63.4	63.4	66.7	66.7	68.9	68.9	72.1	72.1	75.4	77.6	79.8
85°	44.8	45.9	48.1	47.0	49.2	48.1	50.3	52.5	53.6	52.5	51.4
87.5°	29.5	29.5	31.7	30.6	31.7	31.7	33.9	33.9	35.0	35.0	33.9
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2449.5	2433.1	2423.3	2411.2	2408.0	2404.7	2409.1	2409.1	2402.5	2397.0	2387.2
5°	2506.3	2488.9	2470.3	2450.6	2432.0	2412.3	2404.7	2403.6	2391.6	2385.0	2381.7
7.5°	2535.9	2527.1	2506.3	2479.0	2450.6	2415.6	2400.3	2391.6	2379.5	2377.4	2377.4
10°	2539.1	2529.3	2518.4	2498.7	2465.9	2420.0	2390.5	2373.0	2362.1	2369.7	2383.9
12.5°	2507.4	2526.0	2516.2	2503.1	2476.8	2421.1	2378.5	2352.2	2348.9	2368.6	2405.8
15°	2426.5	2481.2	2508.5	2495.4	2474.6	2418.9	2358.8	2328.2	2328.2	2368.6	2416.7
17.5°	2365.3	2408.0	2474.6	2485.6	2461.5	2414.5	2340.2	2304.1	2314.0	2373.0	2424.4
20°	2315.1	2341.3	2405.8	2467.0	2444.0	2404.7	2312.9	2275.7	2295.4	2366.4	2435.3
22.5°	2236.4	2288.8	2328.2	2418.9	2426.5	2386.1	2285.5	2240.7	2280.1	2366.4	2429.8
25°	2159.8	2223.2	2264.8	2353.3	2400.3	2363.2	2260.4	2203.6	2263.7	2363.2	2425.5
27.5°	2106.3	2135.8	2211.2	2274.6	2361.0	2332.5	2226.5	2163.1	2242.9	2345.7	2400.3
30°	2049.4	2069.1	2143.4	2203.6	2308.5	2297.6	2191.5	2118.3	2216.7	2329.3	2334.7
32.5°	1987.1	2009.0	2047.3	2134.7	2235.3	2264.8	2152.2	2073.5	2188.3	2304.1	2258.2
35°	1923.7	1940.1	1970.7	2064.8	2150.0	2215.6	2104.1	2022.1	2168.6	2265.9	2185.0
37.5°	1860.4	1877.8	1904.1	1982.8	2060.4	2169.7	2062.6	1970.7	2132.5	2198.1	2108.5
40°	1800.2	1810.1	1837.4	1886.6	1986.1	2122.7	2015.6	1917.2	2095.4	2111.8	2004.6
42.5°	1689.8	1739.0	1764.2	1803.5	1901.9	2058.2	1960.9	1860.4	2053.8	2025.4	1900.8
45°	1570.7	1677.8	1688.7	1728.1	1827.6	1989.3	1909.5	1804.6	2014.5	1951.1	1802.4
47.5°	1473.4	1551.0	1614.4	1647.2	1739.0	1908.4	1861.4	1757.6	1955.4	1857.1	1706.2
50°	1387.1	1428.6	1543.4	1567.4	1633.0	1811.2	1804.6	1703.0	1873.5	1739.0	1612.2
52.5°	1302.9	1332.4	1436.3	1487.6	1541.2	1706.2	1736.8	1649.4	1783.8	1621.0	1517.1
55°	1229.7	1239.5	1296.3	1404.6	1452.6	1600.2	1662.5	1587.1	1670.2	1508.4	1425.3
57.5°	1154.2	1145.5	1187.0	1325.9	1360.8	1492.0	1583.8	1523.7	1578.3	1393.6	1330.2
60°	1075.6	1063.5	1081.0	1172.8	1263.6	1384.9	1490.9	1453.7	1466.9	1279.9	1224.2
62.5°	993.6	981.5	976.1	1034.0	1168.5	1274.5	1396.9	1376.1	1330.2	1176.1	1093.0
65°	908.3	896.3	887.5	910.5	1063.5	1131.3	1292.0	1286.5	1180.5	1066.8	920.3
67.5°	276.5	815.4	796.8	795.7	896.3	1001.2	1178.3	1169.6	1029.6	949.9	792.5
70°	249.2	661.3	702.8	693.0	736.7	869.0	1048.2	1041.7	883.2	761.8	700.6
72.5°	228.4	233.9	620.8	609.9	619.8	738.9	912.7	895.2	748.7	601.2	605.5
75°	195.7	205.5	214.2	514.8	501.7	612.1	765.1	737.8	617.6	496.2	506.1
77.5°	159.6	171.6	178.2	374.9	405.5	436.1	611.0	574.9	425.2	396.8	189.1
80°	119.1	129.0	139.9	149.7	308.2	305.0	453.6	417.5	296.2	247.0	147.6
82.5°	87.4	90.7	97.3	108.2	122.4	204.4	291.8	256.9	205.5	112.6	101.7
85°	54.7	59.0	62.3	65.6	74.3	122.4	144.3	114.8	86.4	68.9	64.5
87.5°	35.0	35.0	33.9	35.0	36.1	43.7	49.2	47.0	37.2	35.0	35.0
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2376.3	2361.0	2361.0	2356.6	2359.9	2359.9	2358.8	2359.9	2367.5	2371.9	2379.5
5°	2375.2	2370.8	2380.6	2392.7	2406.9	2424.4	2428.7	2444.0	2458.2	2476.8	2496.5
7.5°	2389.4	2404.7	2423.3	2442.9	2471.4	2492.1	2510.7	2529.3	2542.4	2559.9	2570.8
10°	2410.2	2440.8	2472.5	2497.6	2528.2	2545.7	2557.7	2559.9	2541.3	2511.8	2487.8
12.5°	2439.7	2475.7	2505.2	2529.3	2543.5	2536.9	2502.0	2465.9	2445.1	2414.5	2371.9
15°	2464.8	2497.6	2528.2	2518.4	2480.1	2444.0	2416.7	2374.1	2332.5	2304.1	2285.5
17.5°	2475.7	2507.4	2496.5	2445.1	2409.1	2367.5	2311.8	2279.0	2251.7	2229.8	2218.9
20°	2482.3	2476.8	2417.8	2380.6	2310.7	2272.4	2236.4	2205.8	2185.0	2174.1	2171.9
22.5°	2464.8	2398.1	2347.8	2281.2	2229.8	2198.1	2169.7	2144.5	2130.3	2121.6	2116.1
25°	2406.9	2329.3	2254.9	2202.5	2158.8	2131.4	2109.6	2088.8	2071.3	2066.9	2056.0
27.5°	2326.0	2262.6	2164.2	2123.8	2085.5	2072.4	2048.4	2027.6	2012.3	1999.2	1964.2
30°	2259.3	2158.8	2087.7	2050.5	2027.6	2012.3	1985.0	1963.1	1936.9	1888.8	1869.1
32.5°	2177.3	2077.9	2010.1	1989.3	1960.9	1947.8	1917.2	1869.1	1828.7	1809.0	1807.9
35°	2071.3	1989.3	1940.1	1921.6	1898.6	1876.7	1813.4	1769.6	1750.0	1752.1	1768.5
37.5°	1982.8	1909.5	1877.8	1851.6	1825.4	1769.6	1716.1	1695.3	1700.8	1711.7	1719.4
40°	1893.1	1837.4	1801.3	1780.6	1721.5	1666.9	1638.5	1646.1	1656.0	1663.6	1673.4
42.5°	1805.7	1766.4	1730.3	1689.8	1609.0	1579.4	1586.0	1595.8	1604.6	1615.5	1625.3
45°	1722.6	1687.7	1646.1	1554.3	1513.9	1521.5	1531.3	1539.0	1552.1	1559.8	1569.6
47.5°	1643.9	1606.8	1533.5	1452.6	1448.3	1463.6	1472.3	1482.2	1492.0	1472.3	812.1
50°	1555.4	1517.1	1405.6	1375.0	1384.9	1399.1	1410.0	1419.9	1264.6	502.8	386.9
52.5°	1468.0	1370.7	1299.6	1308.4	1318.2	1334.6	1342.3	996.9	396.8	378.2	379.3
55°	1370.7	1246.1	1225.3	1236.2	1245.0	1261.4	836.2	366.2	364.0	362.9	371.6
57.5°	1217.6	1142.2	1151.0	1161.9	1170.6	826.3	356.3	354.1	355.2	356.3	357.4
60°	1081.0	1064.6	1074.5	1084.3	767.3	344.3	337.7	338.8	343.2	339.9	331.2
62.5°	972.8	985.9	995.8	872.2	326.8	323.5	326.8	323.5	315.9	310.4	299.5
65°	889.7	902.9	910.5	307.1	306.1	310.4	307.1	296.2	284.2	268.9	265.6
67.5°	802.3	815.4	291.8	284.2	288.6	283.1	270.0	256.9	248.1	235.0	229.5
70°	711.6	305.0	264.5	263.4	255.8	247.0	232.8	219.7	208.8	203.3	197.8
72.5°	513.7	241.6	238.3	229.5	216.4	204.4	192.4	184.7	179.3	176.0	172.7
75°	214.2	209.9	200.0	184.7	171.6	166.1	157.4	151.9	149.7	143.2	141.0
77.5°	179.3	170.5	156.3	145.4	137.7	134.4	127.9	121.3	118.0	117.0	112.6
80°	137.7	125.7	119.1	113.7	111.5	103.8	96.2	92.9	90.7	89.6	86.4
82.5°	94.0	89.6	85.3	77.6	77.6	74.3	71.0	68.9	66.7	66.7	64.5
85°	61.2	57.9	56.8	53.6	53.6	51.4	50.3	49.2	48.1	47.0	45.9
87.5°	35.0	35.0	36.1	35.0	35.0	33.9	32.8	31.7	30.6	30.6	28.4
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2389.4	2400.3	2402.5	2439.7	2460.4	2459.3	2452.8	2472.5	2460.4	2453.9	2460.4
5°	2516.2	2529.3	2540.2	2580.7	2594.9	2601.4	2600.3	2611.3	2602.5	2594.9	2594.9
7.5°	2578.5	2582.9	2587.2	2577.4	2570.8	2559.9	2543.5	2519.5	2507.4	2494.3	2477.9
10°	2475.7	2461.5	2467.0	2447.3	2430.9	2418.9	2403.6	2383.9	2367.5	2355.5	2336.9
12.5°	2350.0	2348.9	2351.1	2354.4	2338.0	2328.2	2316.2	2301.9	2289.9	2276.8	2261.5
15°	2273.5	2274.6	2283.4	2280.1	2274.6	2269.1	2256.0	2251.7	2240.7	2226.5	2217.8
17.5°	2218.9	2224.3	2233.1	2228.7	2220.0	2214.5	2204.7	2194.8	2185.0	2174.1	2160.9
20°	2170.8	2176.2	2181.7	2176.2	2159.8	2152.2	2139.1	2108.5	2086.6	2064.8	2045.1
22.5°	2118.3	2121.6	2117.2	2099.7	2058.2	2038.5	2023.2	2014.5	1995.9	1983.9	1971.8
25°	2052.7	2034.1	2005.7	1986.1	1969.7	1960.9	1954.4	1953.3	1951.1	1948.9	1943.4
27.5°	1945.6	1939.1	1923.7	1916.1	1917.2	1920.5	1921.6	1924.8	1921.6	1917.2	1912.8
30°	1865.8	1869.1	1870.2	1872.4	1877.8	1881.1	1882.2	1886.6	1884.4	1881.1	1878.9
32.5°	1815.5	1823.2	1827.6	1834.1	1837.4	1842.9	1842.9	1849.4	1842.9	1841.8	1839.6
35°	1774.0	1780.6	1782.7	1792.6	1795.9	1801.3	1801.3	1806.8	1801.3	1745.6	1378.3
37.5°	1732.5	1739.0	1743.4	1752.1	1753.2	1756.5	1621.0	1185.9	765.1	592.4	452.5
40°	1683.3	1690.9	1695.3	1698.6	1193.6	757.5	521.4	424.1	424.1	427.4	430.7
42.5°	1630.8	1636.3	1140.0	663.5	413.2	412.1	415.4	418.6	421.9	426.3	430.7
45°	1282.1	647.1	411.0	401.1	404.4	408.8	413.2	417.5	423.0	427.4	429.6
47.5°	420.8	394.6	400.1	395.7	401.1	406.6	411.0	415.4	416.4	417.5	416.4
50°	389.1	389.1	392.4	392.4	396.8	399.0	399.0	399.0	394.6	393.5	390.2
52.5°	376.0	384.7	380.4	382.6	380.4	377.1	373.8	370.5	364.0	361.8	357.4
55°	369.4	372.7	361.8	358.5	354.1	345.4	341.0	336.7	331.2	329.0	323.5
57.5°	354.1	346.5	334.5	329.0	321.4	312.6	308.2	305.0	299.5	297.3	294.0
60°	325.7	310.4	302.8	296.2	287.5	279.8	276.5	274.4	270.0	268.9	265.6
62.5°	290.7	277.6	271.1	262.3	255.8	251.4	248.1	247.0	242.7	242.7	240.5
65°	252.5	245.9	240.5	231.7	228.4	224.1	223.0	221.9	219.7	218.6	216.4
67.5°	221.9	217.5	209.9	205.5	203.3	200.0	197.8	195.7	191.3	189.1	185.8
70°	194.6	191.3	183.6	180.4	176.0	170.5	167.2	165.0	161.8	159.6	156.3
72.5°	168.3	158.5	153.0	149.7	146.5	141.0	139.9	137.7	134.4	133.4	130.1
75°	135.5	127.9	124.6	122.4	119.1	115.9	115.9	115.9	112.6	111.5	110.4
77.5°	108.2	103.8	101.7	99.5	98.4	96.2	92.9	91.8	88.5	88.5	87.4
80°	83.1	80.9	78.7	77.6	76.5	74.3	72.1	71.0	67.8	67.8	66.7
82.5°	61.2	60.1	59.0	57.9	56.8	55.7	52.5	51.4	49.2	49.2	48.1
85°	43.7	42.6	40.4	39.3	39.3	38.3	35.0	33.9	31.7	31.7	31.7
87.5°	27.3	26.2	25.1	24.0	23.0	21.9	19.7	18.6	18.6	16.4	15.3
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2447.3	2465.9	2463.7	2476.8	2480.1	2486.7	2488.9	2489.9	2473.5	2486.7	2487.8
5°	2591.6	2594.9	2597.1	2602.5	2608.0	2609.1	2603.6	2597.1	2599.2	2594.9	2583.9
7.5°	2475.7	2459.3	2456.1	2451.7	2449.5	2447.3	2437.5	2446.2	2436.4	2432.0	2416.7
10°	2333.6	2318.3	2317.2	2317.2	2320.5	2319.4	2317.2	2312.9	2321.6	2316.2	2312.9
12.5°	2259.3	2253.8	2257.1	2254.9	2263.7	2265.9	2263.7	2263.7	2261.5	2257.1	2259.3
15°	2214.5	2210.1	2213.4	2210.1	2216.7	2217.8	2212.3	2215.6	2210.1	2204.7	2202.5
17.5°	2155.5	2145.6	2138.0	2127.1	2128.1	2126.0	2119.4	2119.4	2113.9	2099.7	2100.8
20°	2041.8	2032.0	2027.6	2027.6	2033.1	2035.2	2034.1	2036.3	2030.9	2028.7	2019.9
22.5°	1970.7	1969.7	1971.8	1977.3	1986.1	1998.1	1999.2	1999.2	1999.2	1998.1	1987.1
25°	1945.6	1945.6	1947.8	1955.4	1962.0	1970.7	1972.9	1975.1	1972.9	1972.9	1963.1
27.5°	1917.2	1915.0	1919.4	1927.0	1934.7	1941.2	1946.7	1947.8	1944.5	1944.5	1947.8
30°	1882.2	1881.1	1886.6	1894.2	1900.8	1907.4	1912.8	1917.2	1912.8	1912.8	1909.5
32.5°	1846.1	1846.1	1848.3	1802.4	1671.3	1505.1	1508.4	1412.2	1345.5	1261.4	1372.9
35°	1152.1	838.4	720.3	609.9	532.3	482.0	480.9	464.5	456.9	451.4	450.3
37.5°	435.0	437.2	441.6	443.8	447.1	449.2	450.3	450.3	450.3	450.3	449.2
40°	433.9	438.3	441.6	444.9	448.1	450.3	450.3	451.4	452.5	452.5	452.5
42.5°	435.0	439.4	443.8	447.1	449.2	450.3	451.4	452.5	452.5	452.5	452.5
45°	433.9	436.1	436.1	437.2	437.2	437.2	438.3	438.3	437.2	436.1	438.3
47.5°	417.5	417.5	414.3	413.2	412.1	409.9	411.0	409.9	408.8	407.7	409.9
50°	389.1	384.7	382.6	380.4	379.3	377.1	378.2	377.1	376.0	373.8	377.1
52.5°	355.2	354.1	349.8	347.6	346.5	347.6	345.4	344.3	343.2	342.1	343.2
55°	322.4	318.1	317.0	314.8	313.7	314.8	313.7	312.6	311.5	310.4	311.5
57.5°	292.9	289.7	288.6	286.4	286.4	286.4	286.4	285.3	284.2	283.1	284.2
60°	264.5	262.3	261.2	261.2	260.1	260.1	260.1	259.1	258.0	258.0	259.1
62.5°	240.5	240.5	237.2	236.1	236.1	237.2	236.1	235.0	233.9	232.8	235.0
65°	215.3	211.0	209.9	207.7	205.5	206.6	205.5	204.4	203.3	202.2	204.4
67.5°	184.7	183.6	179.3	177.1	176.0	177.1	176.0	174.9	173.8	172.7	174.9
70°	155.2	155.2	150.8	149.7	148.7	148.7	147.6	147.6	146.5	145.4	147.6
72.5°	129.0	129.0	127.9	125.7	124.6	123.5	122.4	121.3	121.3	122.4	122.4
75°	107.1	104.9	100.6	101.7	100.6	99.5	99.5	98.4	97.3	99.5	98.4
77.5°	84.2	83.1	79.8	80.9	79.8	78.7	78.7	77.6	76.5	77.6	77.6
80°	63.4	63.4	62.3	61.2	61.2	60.1	59.0	59.0	57.9	59.0	59.0
82.5°	45.9	45.9	44.8	43.7	42.6	42.6	41.5	41.5	41.5	41.5	41.5
85°	29.5	28.4	28.4	26.2	26.2	26.2	25.1	25.1	25.1	25.1	25.1
87.5°	14.2	14.2	13.1	13.1	12.0	10.9	10.9	9.8	9.8	10.9	10.9
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2468.1	2482.3	2470.3	2475.7	2476.8	2495.4	2494.3	2498.7	2491.0	2482.3	2470.3
5°	2593.8	2587.2	2578.5	2599.2	2588.3	2601.4	2605.8	2614.5	2614.5	2613.5	2603.6
7.5°	2433.1	2418.9	2429.8	2437.5	2440.8	2432.0	2449.5	2469.2	2485.6	2495.4	2496.5
10°	2307.4	2311.8	2310.7	2314.0	2321.6	2320.5	2331.5	2342.4	2346.8	2353.3	2355.5
12.5°	2248.4	2247.3	2249.5	2257.1	2261.5	2260.4	2271.3	2277.9	2280.1	2281.2	2280.1
15°	2201.4	2193.7	2199.2	2200.3	2203.6	2203.6	2216.7	2226.5	2230.9	2233.1	2230.9
17.5°	2112.8	2094.3	2111.8	2111.8	2123.8	2121.6	2142.4	2158.8	2167.5	2174.1	2174.1
20°	2025.4	2016.7	2023.2	2021.0	2029.8	2028.7	2041.8	2052.7	2060.4	2065.8	2072.4
22.5°	1990.4	1992.6	1982.8	1983.9	1983.9	1982.8	1989.3	1994.8	1997.0	2000.3	1998.1
25°	1967.5	1969.7	1966.4	1960.9	1958.7	1960.9	1964.2	1970.7	1971.8	1969.7	1962.0
27.5°	1944.5	1938.0	1943.4	1933.6	1931.4	1935.8	1940.1	1941.2	1942.3	1942.3	1935.8
30°	1909.5	1904.1	1909.5	1905.2	1900.8	1905.2	1908.4	1908.4	1910.6	1911.7	1904.1
32.5°	1334.6	1345.5	1522.6	1629.7	1780.6	1857.1	1871.3	1871.3	1873.5	1873.5	1866.9
35°	454.7	455.8	493.0	534.5	623.0	732.3	875.5	949.9	1201.3	1501.8	1792.6
37.5°	449.2	448.1	447.1	446.0	444.9	443.8	441.6	440.5	447.1	530.1	719.2
40°	451.4	450.3	448.1	447.1	446.0	443.8	442.7	440.5	438.3	436.1	433.9
42.5°	451.4	450.3	449.2	448.1	447.1	446.0	443.8	441.6	439.4	436.1	432.8
45°	436.1	436.1	437.2	437.2	438.3	438.3	438.3	437.2	437.2	436.1	431.8
47.5°	407.7	407.7	411.0	411.0	413.2	415.4	415.4	417.5	420.8	423.0	424.1
50°	374.9	374.9	378.2	379.3	381.5	384.7	388.0	389.1	392.4	396.8	401.1
52.5°	342.1	342.1	345.4	345.4	347.6	350.9	354.1	355.2	359.6	364.0	369.4
55°	311.5	311.5	313.7	314.8	315.9	318.1	321.4	321.4	325.7	329.0	334.5
57.5°	284.2	286.4	286.4	286.4	287.5	289.7	291.8	291.8	295.1	298.4	302.8
60°	258.0	260.1	260.1	260.1	261.2	262.3	264.5	264.5	266.7	268.9	273.3
62.5°	233.9	236.1	236.1	237.2	237.2	238.3	240.5	239.4	241.6	242.7	245.9
65°	203.3	205.5	206.6	207.7	208.8	211.0	214.2	213.1	216.4	218.6	221.9
67.5°	173.8	176.0	176.0	177.1	178.2	180.4	182.5	182.5	185.8	188.0	192.4
70°	146.5	148.7	148.7	149.7	150.8	153.0	155.2	154.1	157.4	159.6	162.9
72.5°	121.3	123.5	123.5	124.6	124.6	126.8	129.0	131.2	131.2	133.4	135.5
75°	98.4	99.5	100.6	100.6	101.7	102.7	104.9	107.1	108.2	109.3	111.5
77.5°	77.6	78.7	79.8	79.8	80.9	82.0	83.1	87.4	89.6	90.7	90.7
80°	59.0	60.1	60.1	60.1	61.2	62.3	64.5	64.5	68.9	68.9	70.0
82.5°	41.5	42.6	42.6	42.6	43.7	45.9	47.0	48.1	50.3	51.4	51.4
85°	25.1	26.2	26.2	26.2	27.3	28.4	30.6	31.7	32.8	32.8	33.9
87.5°	9.8	10.9	12.0	12.0	13.1	14.2	15.3	16.4	17.5	17.5	18.6
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2457.2	2464.8	2457.2	2461.5	2467.0	2457.2	2434.2	2425.5	2422.2	2409.1	2400.3
5°	2593.8	2593.8	2590.5	2599.2	2598.2	2582.9	2558.8	2547.9	2536.9	2522.7	2511.8
7.5°	2496.5	2505.2	2510.7	2544.6	2566.5	2568.6	2583.9	2587.2	2591.6	2587.2	2580.7
10°	2356.6	2353.3	2368.6	2400.3	2418.9	2428.7	2458.2	2472.5	2484.5	2508.5	2533.7
12.5°	2277.9	2282.3	2288.8	2311.8	2329.3	2324.9	2336.9	2346.8	2361.0	2385.0	2421.1
15°	2225.4	2229.8	2236.4	2253.8	2264.8	2259.3	2265.9	2272.4	2282.3	2294.3	2316.2
17.5°	2168.6	2176.2	2183.9	2202.5	2212.3	2211.2	2216.7	2218.9	2222.1	2229.8	2245.1
20°	2080.1	2104.1	2119.4	2144.5	2158.8	2156.6	2166.4	2169.7	2174.1	2181.7	2188.3
22.5°	1999.2	2005.7	2013.4	2040.7	2064.8	2094.3	2100.8	2109.6	2120.5	2128.1	2134.7
25°	1953.3	1948.9	1952.2	1970.7	1983.9	1986.1	1995.9	2024.3	2053.8	2066.9	2082.2
27.5°	1925.9	1921.6	1920.5	1929.2	1931.4	1925.9	1923.7	1932.5	1954.4	1976.2	2022.1
30°	1896.4	1891.0	1886.6	1894.2	1897.5	1889.9	1875.7	1868.0	1881.1	1886.6	1905.2
32.5°	1861.4	1856.0	1853.8	1858.2	1860.4	1853.8	1838.5	1829.7	1827.6	1823.2	1827.6
35°	1822.1	1816.6	1813.4	1814.4	1818.8	1813.4	1800.2	1789.3	1783.8	1771.8	1763.1
37.5°	938.9	1330.2	1727.0	1768.5	1772.9	1771.8	1758.7	1746.7	1741.2	1727.0	1722.6
40°	429.6	479.8	720.3	941.1	1357.6	1724.8	1712.8	1700.8	1690.9	1686.6	1670.2
42.5°	428.5	429.6	430.7	425.2	526.8	897.4	1324.8	1653.8	1647.2	1636.3	1624.3
45°	428.5	423.0	427.4	420.8	423.0	421.9	525.8	848.2	1509.5	1577.3	1571.8
47.5°	424.1	420.8	425.2	419.7	413.2	416.4	412.1	417.5	651.5	1105.1	1513.9
50°	404.4	406.6	414.3	413.2	407.7	412.1	404.4	411.0	405.5	444.9	856.9
52.5°	374.9	379.3	386.9	393.5	395.7	401.1	399.0	401.1	396.8	397.9	399.0
55°	339.9	345.4	352.0	361.8	366.2	374.9	381.5	384.7	390.2	389.1	380.4
57.5°	307.1	312.6	318.1	327.9	337.7	342.1	354.1	360.7	374.9	371.6	369.4
60°	276.5	280.9	286.4	288.6	300.6	308.2	319.2	325.7	344.3	348.7	355.2
62.5°	249.2	251.4	255.8	259.1	266.7	274.4	279.8	290.7	300.6	314.8	324.6
65°	224.1	226.3	229.5	231.7	232.8	243.7	247.0	259.1	262.3	277.6	286.4
67.5°	195.7	200.0	204.4	206.6	208.8	215.3	217.5	223.0	230.6	237.2	248.1
70°	166.1	169.4	173.8	177.1	181.4	185.8	192.4	195.7	201.1	205.5	214.2
72.5°	138.8	142.1	144.3	147.6	150.8	154.1	159.6	167.2	171.6	179.3	181.4
75°	112.6	115.9	118.0	120.2	123.5	125.7	127.9	135.5	139.9	146.5	153.0
77.5°	92.9	92.9	95.1	101.7	100.6	100.6	102.7	107.1	110.4	114.8	121.3
80°	72.1	73.2	74.3	79.8	80.9	82.0	80.9	84.2	87.4	88.5	92.9
82.5°	53.6	54.7	54.7	57.9	61.2	61.2	61.2	62.3	65.6	66.7	68.9
85°	36.1	37.2	38.3	39.3	41.5	42.6	43.7	43.7	45.9	47.0	48.1
87.5°	19.7	21.9	23.0	24.0	25.1	26.2	27.3	28.4	29.5	30.6	31.7
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: 8SNLED-LD5-57SL-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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2397.0	2391.6	2388.3	2379.5	2377.4	2363.2	2365.3	2363.2	2363.2	2366.4	2377.4
5°	2499.8	2473.5	2467.0	2448.4	2433.1	2406.9	2390.5	2381.7	2368.6	2363.2	2370.8
7.5°	2569.7	2550.1	2533.7	2517.3	2495.4	2464.8	2441.8	2415.6	2393.8	2373.0	2367.5
10°	2557.7	2579.6	2579.6	2569.7	2549.0	2518.4	2491.0	2458.2	2420.0	2387.2	2367.5
12.5°	2456.1	2494.3	2524.9	2547.9	2568.6	2547.9	2520.5	2494.3	2451.7	2403.6	2367.5
15°	2344.6	2383.9	2422.2	2470.3	2520.5	2541.3	2540.2	2509.6	2471.4	2421.1	2370.8
17.5°	2265.9	2293.2	2314.0	2366.4	2427.6	2481.2	2517.3	2519.5	2482.3	2437.5	2371.9
20°	2206.8	2226.5	2244.0	2273.5	2327.1	2392.7	2459.3	2496.5	2489.9	2440.8	2375.2
22.5°	2153.3	2167.5	2181.7	2203.6	2246.2	2288.8	2366.4	2442.9	2475.7	2435.3	2371.9
25°	2099.7	2115.0	2126.0	2141.3	2175.1	2210.1	2264.8	2359.9	2433.1	2430.9	2365.3
27.5°	2036.3	2057.1	2070.2	2091.0	2113.9	2140.2	2177.3	2267.0	2371.9	2409.1	2347.8
30°	1959.8	1990.4	2010.1	2033.1	2052.7	2075.7	2105.2	2159.8	2289.9	2366.4	2329.3
32.5°	1849.4	1904.1	1947.8	1969.7	1991.5	2011.2	2037.4	2083.3	2189.4	2308.5	2308.5
35°	1770.7	1795.9	1835.2	1898.6	1925.9	1945.6	1969.7	2005.7	2073.5	2239.6	2274.6
37.5°	1709.5	1719.4	1739.0	1801.3	1852.7	1884.4	1908.4	1931.4	1998.1	2145.6	2230.9
40°	1663.6	1660.3	1658.1	1687.7	1760.9	1811.2	1838.5	1861.4	1912.8	2033.1	2173.0
42.5°	1610.0	1606.8	1595.8	1603.5	1639.6	1723.7	1765.3	1790.4	1833.0	1915.0	2109.6
45°	1554.3	1548.8	1544.5	1536.8	1549.9	1596.9	1682.2	1719.4	1743.4	1816.6	2029.8
47.5°	1497.5	1489.8	1484.3	1477.8	1470.1	1492.0	1572.9	1639.6	1681.1	1727.0	1933.6
50°	1416.6	1426.4	1419.9	1412.2	1405.6	1401.3	1435.2	1544.5	1595.8	1633.0	1816.6
52.5°	667.8	1298.5	1353.2	1345.5	1336.8	1329.1	1336.8	1419.9	1512.8	1542.3	1675.6
55°	380.4	578.2	1203.4	1272.3	1264.6	1253.7	1247.2	1275.6	1414.4	1453.7	1546.7
57.5°	366.2	367.3	531.2	1146.6	1189.2	1179.4	1171.7	1178.3	1296.3	1363.0	1434.1
60°	354.1	354.1	354.1	507.2	1096.3	1099.6	1089.8	1078.8	1130.2	1261.4	1320.4
62.5°	327.9	334.5	337.7	337.7	500.6	1015.4	1005.6	1002.3	1004.5	1138.9	1206.7
65°	294.0	309.3	315.9	320.3	320.3	525.8	919.2	913.8	906.1	957.5	1091.9
67.5°	256.9	272.2	286.4	295.1	296.2	306.1	548.7	823.1	812.1	813.2	969.5
70°	218.6	231.7	247.0	260.1	272.2	277.6	286.4	683.1	719.2	703.9	830.7
72.5°	189.1	194.6	205.5	218.6	232.8	245.9	253.6	272.2	624.1	607.7	631.8
75°	157.4	161.8	169.4	178.2	189.1	204.4	217.5	230.6	331.2	509.4	506.1
77.5°	122.4	130.1	138.8	144.3	149.7	160.7	178.2	191.3	204.4	344.3	405.5
80°	94.0	99.5	103.8	109.3	115.9	123.5	130.1	145.4	160.7	172.7	310.4
82.5°	70.0	73.2	76.5	78.7	80.9	85.3	97.3	102.7	112.6	123.5	146.5
85°	49.2	51.4	53.6	54.7	55.7	56.8	61.2	62.3	72.1	74.3	88.5
87.5°	31.7	32.8	35.0	36.1	36.1	37.2	38.3	38.3	38.3	36.1	43.7
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: 8SNLED-LD5-57SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2385.0	2385.0
2.5°	2386.1	2403.6
5°	2382.8	2405.8
7.5°	2374.1	2395.9
10°	2361.0	2387.2
12.5°	2346.8	2371.9
15°	2334.7	2353.3
17.5°	2321.6	2332.5
20°	2304.1	2312.9
22.5°	2286.6	2282.3
25°	2267.0	2257.1
27.5°	2241.8	2223.2
30°	2218.9	2186.1
32.5°	2197.0	2143.4
35°	2167.5	2099.7
37.5°	2136.9	2054.9
40°	2100.8	2003.5
42.5°	2062.6	1952.2
45°	2014.5	1903.0
47.5°	1971.8	1844.0
50°	1912.8	1780.6
52.5°	1840.7	1721.5
55°	1755.4	1649.4
57.5°	1663.6	1574.0
60°	1565.2	1487.6
62.5°	1446.1	1398.0
65°	1306.2	1295.3
67.5°	1123.6	1181.6
70°	921.4	1051.5
72.5°	770.6	913.8
75°	631.8	759.7
77.5°	500.6	595.7
80°	312.6	436.1
82.5°	209.9	286.4
85°	126.8	136.6
87.5°	49.2	50.3
90°	0.0	0.0

(END OF REPORT)