

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-LD5-56HL-RW-UNV-L940-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-LD5-56HL-RW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

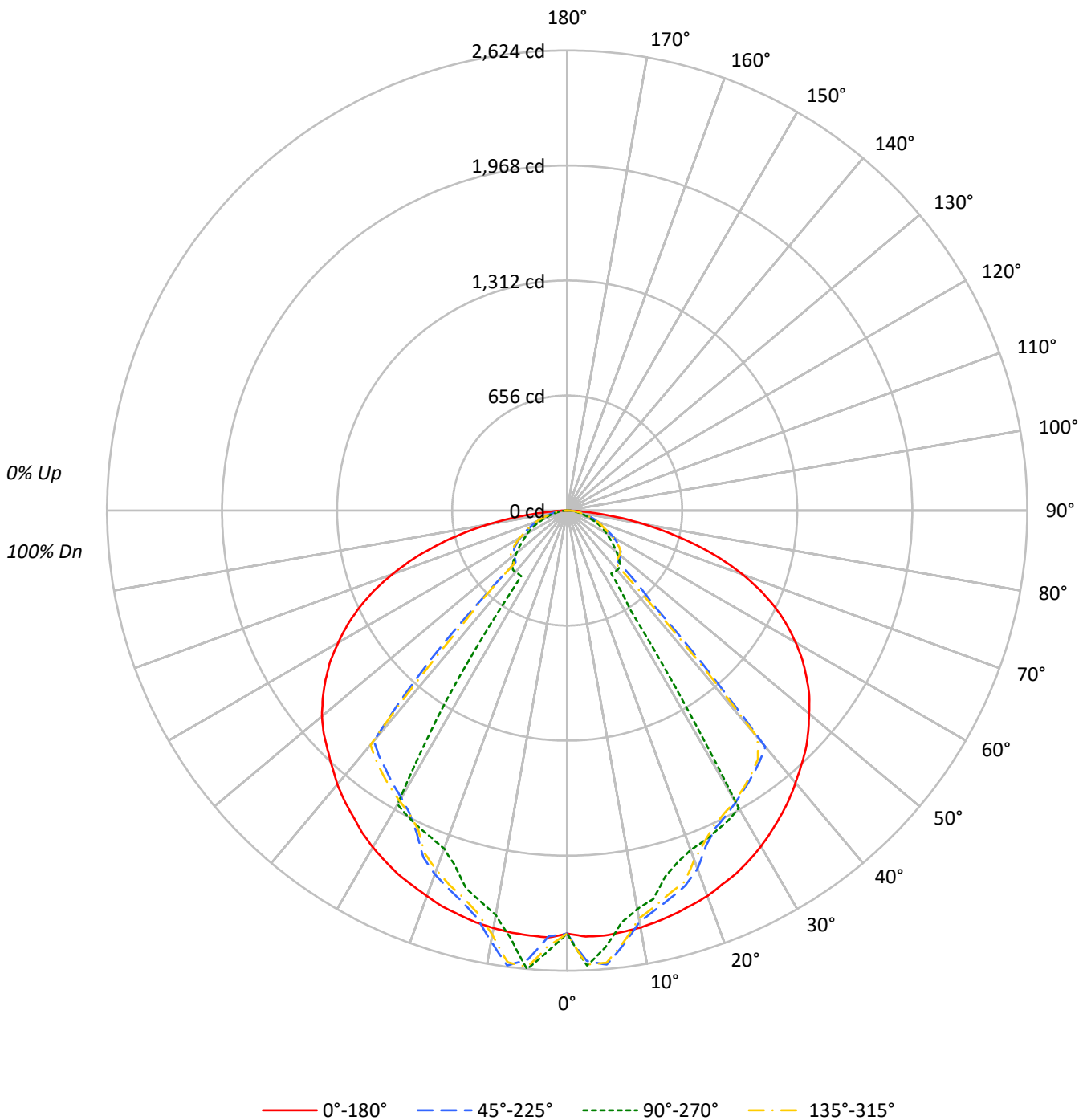
Lumens per Lamp: N/A
Luminaire Lumens: 4830.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19491	19491	19491	19491
5°	19682	19638	19674	20610
10°	19702	17755	19729	18027
15°	19745	16428	19791	16948
20°	19888	15581	19888	15522
25°	20060	15283	20090	15140
30°	20264	15014	20314	14835
35°	20500	3419	20542	3566
40°	20828	3556	20954	3671
45°	21327	3536	21400	3665
50°	21825	3197	22120	3283
55°	22496	2839	22676	2879
60°	23066	2523	23118	2555
65°	23474	2201	23415	2166
70°	23139	1774	23067	1710
75°	21483	1365	21637	1308
80°	17437	970	18133	888
85°	9441	582	9967	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	4.9
10°-20°	652.5	13.5
20°-30°	966.5	20.0
30°-40°	973.8	20.2
40°-50°	760.7	15.7
50°-60°	587.6	12.2
60°-70°	394.5	8.2
70°-80°	201.2	4.2
80°-90°	56.0	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°	1856.3	38.4
0°-40°	2830.0	58.6
0°-60°	4178.3	86.5
0°-90°	4830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4830.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2412	2412	2412	2412	2412	
5°	2433	2500	2432	2624	2433	231
15°	2380	2161	2385	2230	2380	673
25°	2283	2014	2286	1995	2283	1053
35°	2124	438	2128	456	2124	1331
45°	1924	426	1931	441	1924	1484
55°	1668	310	1681	314	1668	1490
65°	1310	208	1307	204	1310	1288
75°	768	105	774	101	768	803
85°	138	33	146	25	138	190
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°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2430.8	2439.6	2446.2	2450.7	2452.9	2452.9	2454.0	2455.1	2469.5	2476.1	2480.5
5°	2433.0	2441.8	2455.1	2472.8	2488.3	2501.5	2512.6	2528.0	2543.5	2560.1	2565.6
7.5°	2423.0	2434.1	2460.6	2492.7	2522.5	2543.5	2557.9	2567.8	2575.6	2576.7	2582.2
10°	2414.2	2434.1	2470.6	2512.6	2550.2	2575.6	2575.6	2570.0	2577.8	2547.9	2518.1
12.5°	2398.7	2420.8	2470.6	2525.8	2561.2	2571.2	2566.7	2544.6	2499.3	2462.8	2446.2
15°	2379.9	2409.8	2471.7	2533.6	2563.4	2566.7	2524.7	2468.4	2434.1	2412.0	2384.3
17.5°	2358.9	2398.7	2472.8	2534.7	2545.7	2530.3	2450.7	2415.3	2379.9	2328.0	2290.4
20°	2339.0	2377.7	2463.9	2519.2	2525.8	2456.2	2394.3	2356.7	2297.0	2251.7	2235.1
22.5°	2308.1	2353.4	2456.2	2498.2	2472.8	2392.1	2332.4	2272.7	2218.5	2205.3	2185.4
25°	2282.6	2330.2	2438.5	2472.8	2405.3	2333.5	2263.9	2194.2	2168.8	2150.0	2132.3
27.5°	2248.4	2307.0	2415.3	2426.3	2333.5	2270.5	2168.8	2137.8	2114.6	2093.6	2085.9
30°	2210.8	2282.6	2383.2	2362.2	2273.8	2180.9	2105.8	2077.0	2060.5	2038.4	2029.5
32.5°	2167.7	2246.2	2347.9	2288.2	2209.7	2093.6	2045.0	2022.9	2000.8	1984.2	1928.9
35°	2123.5	2214.1	2305.9	2217.4	2132.3	2027.3	1984.2	1964.3	1943.3	1882.5	1825.0
37.5°	2078.1	2178.7	2255.0	2141.2	2029.5	1958.8	1922.3	1900.2	1852.6	1775.3	1746.5
40°	2026.2	2135.6	2189.8	2062.7	1940.0	1889.1	1854.9	1832.7	1725.5	1691.3	1682.4
42.5°	1974.2	2093.6	2110.2	1986.4	1865.9	1815.1	1786.3	1713.4	1640.4	1622.7	1626.0
45°	1924.5	2048.3	2022.9	1878.1	1788.5	1746.5	1697.9	1597.3	1558.6	1567.5	1569.7
47.5°	1864.8	1994.1	1931.1	1769.7	1708.9	1666.9	1558.6	1497.8	1492.3	1504.4	1511.1
50°	1800.7	1933.3	1833.9	1671.4	1622.7	1573.0	1450.3	1419.3	1426.0	1438.1	1445.9
52.5°	1741.0	1864.8	1733.3	1579.6	1537.6	1423.8	1340.8	1346.4	1357.4	1371.8	1376.2
55°	1668.0	1781.9	1626.0	1486.8	1447.0	1297.7	1260.2	1273.4	1284.5	1296.6	1305.5
57.5°	1591.8	1686.8	1498.9	1382.9	1318.7	1186.1	1189.4	1198.3	1206.0	1220.4	504.1
60°	1504.4	1578.5	1359.6	1286.7	1159.6	1097.7	1101.0	1116.5	1124.2	627.9	347.1
62.5°	1413.8	1452.5	1233.6	1177.2	1013.6	1009.2	1024.7	1031.3	701.9	331.6	325.0
65°	1309.9	1302.2	1109.8	1020.3	914.2	918.6	935.2	902.0	310.6	310.6	308.4
67.5°	1194.9	1148.5	989.3	844.5	818.0	827.9	845.6	295.1	287.4	289.6	281.9
70°	1063.4	998.2	864.4	715.2	724.0	734.0	285.2	267.5	264.2	258.7	243.2
72.5°	924.1	834.6	707.5	621.2	626.8	393.5	249.8	241.0	229.9	218.9	202.3
75°	768.3	652.2	519.5	519.5	527.3	224.4	217.8	203.4	191.2	176.9	166.9
77.5°	602.4	501.9	403.5	418.9	204.5	187.9	175.8	160.3	150.3	141.5	136.0
80°	441.1	350.4	304.0	271.9	159.2	142.6	130.4	121.6	117.2	111.6	105.0
82.5°	289.6	211.1	211.1	128.2	111.6	98.4	95.1	88.4	84.0	80.7	77.4
85°	138.2	122.7	92.9	78.5	69.6	63.0	60.8	57.5	57.5	56.4	55.3
87.5°	50.8	55.3	40.9	39.8	37.6	36.5	37.6	37.6	38.7	37.6	36.5
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°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2491.6	2500.4	2507.0	2518.1	2532.5	2544.6	2555.7	2571.2	2595.5	2602.1	2607.6
5°	2565.6	2568.9	2576.7	2585.5	2587.7	2593.3	2592.2	2598.8	2602.1	2609.8	2593.3
7.5°	2570.0	2552.4	2531.4	2512.6	2499.3	2487.1	2479.4	2491.6	2498.2	2503.7	2487.1
10°	2477.2	2456.2	2444.0	2433.0	2419.7	2400.9	2375.5	2381.0	2378.8	2378.8	2373.3
12.5°	2418.6	2388.8	2357.8	2330.2	2318.0	2316.9	2318.0	2330.2	2330.2	2329.1	2322.4
15°	2326.9	2298.1	2282.6	2276.0	2276.0	2272.7	2272.7	2286.0	2282.6	2282.6	2279.3
17.5°	2266.1	2246.2	2235.1	2227.4	2224.1	2229.6	2236.2	2241.7	2242.9	2238.4	2220.7
20°	2216.3	2197.5	2184.3	2186.5	2185.4	2188.7	2192.0	2173.2	2150.0	2119.0	2104.7
22.5°	2164.4	2150.0	2140.0	2140.0	2126.8	2105.8	2074.8	2068.2	2064.9	2050.5	2038.4
25°	2114.6	2098.0	2083.7	2039.5	2011.8	2015.1	2009.6	1998.6	1997.5	1996.3	2000.8
27.5°	2064.9	2021.8	1966.5	1959.9	1948.8	1947.7	1954.3	1959.9	1959.9	1964.3	1969.8
30°	1962.1	1912.3	1902.4	1890.2	1894.7	1910.1	1913.4	1921.2	1923.4	1931.1	1935.6
32.5°	1868.1	1846.0	1837.2	1842.7	1857.1	1870.3	1878.1	1881.4	1886.9	1893.5	1899.1
35°	1791.8	1785.2	1793.0	1805.1	1819.5	1830.5	1837.2	1843.8	1849.3	1854.9	1859.3
37.5°	1735.5	1739.9	1750.9	1766.4	1780.8	1789.6	1795.2	1802.9	1810.6	1817.3	1790.7
40°	1682.4	1693.5	1705.6	1722.2	1734.4	1743.2	1748.7	1758.7	1692.4	766.0	420.1
42.5°	1636.0	1648.1	1657.0	1670.3	1683.5	1690.2	1641.5	732.9	414.5	412.3	417.8
45°	1579.6	1589.6	1603.9	1613.9	1626.0	1067.8	407.9	412.3	405.7	410.1	412.3
47.5°	1522.1	1537.6	1545.3	1474.6	438.8	405.7	401.3	405.7	401.3	406.8	403.5
50°	1456.9	1475.7	1050.1	396.8	393.5	391.3	395.7	393.5	396.8	401.3	392.4
52.5°	1390.6	861.1	384.7	382.5	384.7	382.5	390.2	384.7	385.8	381.4	370.3
55°	470.9	372.5	369.2	368.1	374.7	374.7	374.7	365.9	360.4	349.3	341.6
57.5°	360.4	360.4	359.3	360.4	358.1	355.9	346.0	338.3	330.5	315.0	310.6
60°	341.6	341.6	341.6	341.6	331.6	327.2	311.7	305.1	291.8	284.1	279.7
62.5°	326.1	323.9	313.9	310.6	299.6	287.4	278.6	271.9	258.7	254.2	250.9
65°	304.0	296.2	284.1	270.8	265.3	252.0	247.6	237.7	231.0	227.7	225.5
67.5°	267.5	256.5	246.5	237.7	227.7	223.3	217.8	210.0	205.6	203.4	201.2
70°	228.8	221.1	211.1	205.6	199.0	195.7	187.9	185.7	182.4	179.1	175.8
72.5°	191.2	186.8	182.4	174.7	172.4	170.2	162.5	158.1	153.7	149.2	147.0
75°	160.3	157.0	154.8	148.1	144.8	138.2	132.6	129.3	126.0	122.7	120.5
77.5°	131.5	129.3	122.7	118.3	116.1	110.5	108.3	109.4	107.2	102.8	100.6
80°	102.8	100.6	95.1	95.1	92.9	90.6	88.4	86.2	84.0	80.7	78.5
82.5°	78.5	76.3	74.1	71.9	69.6	68.5	67.4	65.2	63.0	60.8	59.7
85°	55.3	54.2	53.1	52.0	50.8	49.7	48.6	46.4	44.2	43.1	42.0
87.5°	37.6	36.5	35.4	34.3	33.2	32.1	31.0	29.8	27.6	26.5	25.4
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°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2607.6	2613.2	2607.6	2595.5	2587.7	2584.4	2591.1	2591.1	2595.5	2601.0	2602.1
5°	2566.7	2553.5	2538.0	2522.5	2514.8	2510.4	2498.2	2500.4	2503.7	2505.9	2508.1
7.5°	2465.0	2447.4	2426.3	2406.5	2398.7	2392.1	2377.7	2377.7	2377.7	2378.8	2385.4
10°	2361.1	2353.4	2344.5	2331.3	2321.3	2318.0	2305.9	2309.2	2307.0	2310.3	2318.0
12.5°	2312.5	2303.6	2295.9	2282.6	2271.6	2267.2	2261.6	2265.0	2263.9	2269.4	2276.0
15°	2268.3	2263.9	2255.0	2245.1	2235.1	2226.3	2206.4	2199.7	2195.3	2189.8	2197.5
17.5°	2195.3	2164.4	2143.4	2127.9	2116.8	2109.1	2103.6	2103.6	2106.9	2110.2	2116.8
20°	2095.8	2087.0	2077.0	2060.5	2049.4	2045.0	2041.7	2041.7	2047.2	2051.6	2063.8
22.5°	2027.3	2026.2	2022.9	2015.1	2009.6	2009.6	2010.7	2012.9	2020.7	2027.3	2039.5
25°	1995.2	1999.7	1997.5	1993.0	1989.7	1990.8	1988.6	1990.8	1998.6	2005.2	2015.1
27.5°	1969.8	1976.5	1974.2	1967.6	1962.1	1964.3	1967.6	1965.4	1972.0	1979.8	1987.5
30°	1935.6	1936.7	1941.1	1933.3	1931.1	1934.4	1935.6	1937.8	1944.4	1949.9	1956.6
32.5°	1896.9	1905.7	1904.6	1896.9	1896.9	1900.2	1901.3	1827.2	1689.0	1454.7	1390.6
35°	1859.3	1869.2	1852.6	1561.9	1081.1	577.0	445.5	430.0	433.3	435.5	437.7
37.5°	1375.1	652.2	415.6	418.9	422.3	425.6	428.9	432.2	435.5	438.8	439.9
40°	413.4	412.3	415.6	420.1	423.4	425.6	430.0	433.3	436.6	439.9	441.1
42.5°	409.0	411.2	414.5	418.9	423.4	427.8	431.1	435.5	437.7	439.9	441.1
45°	406.8	411.2	415.6	418.9	422.3	424.5	426.7	427.8	426.7	426.7	428.9
47.5°	403.5	407.9	409.0	407.9	409.0	407.9	407.9	407.9	404.6	403.5	403.5
50°	391.3	391.3	389.1	384.7	383.6	382.5	380.3	379.2	374.7	373.6	373.6
52.5°	365.9	364.8	361.5	355.9	353.7	351.5	350.4	349.3	344.9	342.7	343.8
55°	336.0	333.8	330.5	323.9	322.8	320.6	319.5	318.4	313.9	316.1	312.8
57.5°	308.4	304.0	299.6	298.5	294.0	292.9	291.8	290.7	287.4	288.5	286.3
60°	275.2	274.1	271.9	267.5	267.5	266.4	266.4	264.2	262.0	260.9	260.9
62.5°	250.9	247.6	245.4	245.4	242.1	242.1	242.1	239.9	237.7	238.8	237.7
65°	224.4	223.3	222.2	220.0	220.0	218.9	218.9	216.7	213.3	214.4	212.2
67.5°	202.3	200.1	197.9	196.8	192.3	190.1	189.0	187.9	183.5	184.6	182.4
70°	174.7	171.3	169.1	166.9	163.6	161.4	161.4	159.2	155.9	157.0	154.8
72.5°	145.9	143.7	141.5	140.4	137.1	136.0	134.9	133.8	130.4	131.5	130.4
75°	121.6	121.6	120.5	119.4	116.1	112.8	110.5	109.4	107.2	108.3	106.1
77.5°	100.6	98.4	96.2	96.2	92.9	90.6	88.4	88.4	88.4	87.3	86.2
80°	78.5	76.3	76.3	75.2	73.0	70.7	69.6	69.6	68.5	68.5	67.4
82.5°	59.7	57.5	56.4	56.4	54.2	53.1	52.0	50.8	50.8	50.8	49.7
85°	42.0	39.8	38.7	38.7	36.5	35.4	35.4	34.3	34.3	33.2	33.2
87.5°	25.4	24.3	23.2	23.2	21.0	19.9	19.9	19.9	18.8	18.8	17.7
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2602.1	2602.1	2594.4	2596.6	2593.3	2597.7	2592.2	2592.2	2598.8	2598.8	2603.2
5°	2509.3	2503.7	2502.6	2500.4	2489.4	2493.8	2488.3	2482.7	2490.5	2490.5	2500.4
7.5°	2382.1	2372.2	2376.6	2370.0	2363.3	2353.4	2356.7	2352.3	2357.8	2365.6	2375.5
10°	2316.9	2308.1	2313.6	2307.0	2310.3	2295.9	2297.0	2298.1	2303.6	2305.9	2314.7
12.5°	2274.9	2272.7	2270.5	2268.3	2270.5	2262.7	2258.3	2259.4	2261.6	2262.7	2269.4
15°	2186.5	2172.1	2176.5	2161.1	2162.2	2163.3	2154.4	2163.3	2162.2	2176.5	2189.8
17.5°	2114.6	2114.6	2106.9	2100.3	2095.8	2094.7	2088.1	2092.5	2088.1	2096.9	2100.3
20°	2064.9	2063.8	2062.7	2059.4	2048.3	2049.4	2052.7	2042.8	2041.7	2040.6	2047.2
22.5°	2041.7	2042.8	2038.4	2038.4	2028.4	2030.6	2031.7	2020.7	2021.8	2018.5	2021.8
25°	2017.4	2019.6	2014.0	2014.0	2011.8	2010.7	2005.2	2007.4	2000.8	1995.2	2000.8
27.5°	1988.6	1993.0	1988.6	1990.8	1986.4	1984.2	1980.9	1978.7	1972.0	1970.9	1974.2
30°	1962.1	1964.3	1963.2	1957.7	1956.6	1949.9	1953.2	1946.6	1940.0	1941.1	1943.3
32.5°	1005.9	960.6	740.6	668.8	662.1	686.5	813.6	990.4	1283.4	1567.5	1772.0
35°	438.8	438.8	438.8	437.7	437.7	436.6	435.5	434.4	433.3	432.2	431.1
37.5°	441.1	441.1	441.1	441.1	439.9	438.8	438.8	436.6	435.5	434.4	433.3
40°	442.2	443.3	443.3	443.3	442.2	442.2	441.1	438.8	437.7	435.5	433.3
42.5°	441.1	442.2	442.2	441.1	441.1	439.9	439.9	438.8	437.7	436.6	435.5
45°	426.7	427.8	425.6	425.6	424.5	424.5	424.5	424.5	424.5	425.6	425.6
47.5°	401.3	401.3	400.2	399.0	399.0	397.9	399.0	397.9	400.2	401.3	403.5
50°	371.4	371.4	369.2	368.1	368.1	368.1	368.1	369.2	370.3	372.5	374.7
52.5°	340.5	340.5	339.4	338.3	337.1	337.1	340.5	339.4	340.5	341.6	344.9
55°	310.6	311.7	309.5	309.5	308.4	308.4	308.4	309.5	310.6	311.7	315.0
57.5°	285.2	285.2	283.0	283.0	283.0	281.9	285.2	283.0	284.1	285.2	287.4
60°	259.8	258.7	258.7	257.6	257.6	257.6	259.8	258.7	258.7	259.8	262.0
62.5°	236.6	236.6	235.4	235.4	234.3	234.3	236.6	235.4	235.4	236.6	237.7
65°	210.0	210.0	208.9	207.8	211.1	207.8	211.1	208.9	211.1	212.2	214.4
67.5°	180.2	180.2	180.2	179.1	179.1	181.3	182.4	180.2	181.3	183.5	184.6
70°	153.7	153.7	152.5	152.5	152.5	154.8	155.9	153.7	154.8	155.9	158.1
72.5°	130.4	128.2	128.2	127.1	129.3	129.3	130.4	129.3	130.4	130.4	132.6
75°	107.2	105.0	105.0	105.0	107.2	106.1	107.2	106.1	107.2	107.2	108.3
77.5°	86.2	85.1	84.0	84.0	86.2	86.2	86.2	85.1	86.2	87.3	88.4
80°	67.4	66.3	65.2	65.2	67.4	67.4	67.4	68.5	67.4	68.5	69.6
82.5°	49.7	48.6	47.5	49.7	49.7	49.7	49.7	50.8	49.7	50.8	52.0
85°	33.2	32.1	31.0	33.2	33.2	33.2	33.2	34.3	33.2	34.3	35.4
87.5°	17.7	16.6	16.6	17.7	17.7	17.7	18.8	18.8	18.8	19.9	19.9
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2609.8	2613.2	2612.1	2605.4	2598.8	2591.1	2585.5	2586.6	2597.7	2601.0	2591.1
5°	2500.4	2521.4	2521.4	2535.8	2528.0	2521.4	2525.8	2550.2	2562.3	2581.1	2587.7
7.5°	2387.7	2397.6	2396.5	2410.9	2408.7	2408.7	2412.0	2444.0	2459.5	2475.0	2479.4
10°	2324.7	2334.6	2333.5	2334.6	2331.3	2323.5	2323.5	2337.9	2351.2	2358.9	2361.1
12.5°	2279.3	2284.9	2283.8	2283.8	2281.5	2274.9	2273.8	2286.0	2300.3	2310.3	2311.4
15°	2211.9	2227.4	2230.7	2245.1	2241.7	2232.9	2235.1	2245.1	2253.9	2262.7	2259.4
17.5°	2111.3	2119.0	2120.2	2125.7	2123.5	2123.5	2136.7	2173.2	2197.5	2218.5	2220.7
20°	2053.8	2059.4	2057.1	2069.3	2063.8	2062.7	2066.0	2081.5	2092.5	2102.5	2120.2
22.5°	2026.2	2030.6	2027.3	2028.4	2018.5	2009.6	2007.4	2019.6	2031.7	2045.0	2045.0
25°	2003.0	2006.3	2005.2	2003.0	1995.2	1983.1	1980.9	1983.1	1987.5	1988.6	1980.9
27.5°	1975.3	1977.6	1977.6	1978.7	1968.7	1957.7	1955.4	1953.2	1957.7	1956.6	1944.4
30°	1946.6	1943.3	1944.4	1945.5	1936.7	1926.7	1922.3	1921.2	1925.6	1924.5	1912.3
32.5°	1878.1	1903.5	1905.7	1907.9	1900.2	1891.3	1886.9	1883.6	1885.8	1884.7	1873.6
35°	430.0	437.7	536.1	1213.7	1648.1	1825.0	1843.8	1839.4	1840.5	1840.5	1831.6
37.5°	431.1	430.0	428.9	425.6	422.3	420.1	726.2	1548.7	1794.1	1795.2	1787.4
40°	431.1	430.0	428.9	426.7	422.3	418.9	413.4	409.0	418.9	921.9	1686.8
42.5°	433.3	431.1	428.9	426.7	422.3	417.8	413.4	407.9	411.2	409.0	403.5
45°	426.7	425.6	425.6	424.5	422.3	417.8	412.3	405.7	402.4	405.7	400.2
47.5°	405.7	406.8	410.1	411.2	411.2	412.3	409.0	404.6	399.0	402.4	395.7
50°	376.9	379.2	380.3	385.8	388.0	392.4	393.5	393.5	392.4	396.8	392.4
52.5°	346.0	348.2	353.7	355.9	358.1	364.8	367.0	370.3	372.5	379.2	383.6
55°	316.1	317.2	319.5	323.9	327.2	332.7	336.0	339.4	344.9	348.2	361.5
57.5°	288.5	289.6	294.0	295.1	297.4	301.8	305.1	309.5	313.9	316.1	331.6
60°	262.0	263.1	266.4	267.5	268.6	273.0	276.3	279.7	283.0	285.2	296.2
62.5°	238.8	238.8	242.1	242.1	243.2	246.5	248.7	250.9	254.2	255.3	260.9
65°	215.6	216.7	218.9	218.9	220.0	222.2	223.3	224.4	227.7	227.7	232.1
67.5°	186.8	187.9	191.2	193.4	194.5	199.0	200.1	201.2	203.4	204.5	206.7
70°	159.2	160.3	163.6	164.7	165.8	169.1	171.3	174.7	178.0	181.3	183.5
72.5°	133.8	134.9	138.2	138.2	141.5	142.6	144.8	145.9	149.2	151.4	154.8
75°	109.4	110.5	113.9	113.9	117.2	118.3	119.4	120.5	122.7	124.9	127.1
77.5°	89.5	89.5	94.0	96.2	98.4	98.4	99.5	99.5	99.5	100.6	102.8
80°	70.7	70.7	74.1	76.3	78.5	78.5	79.6	80.7	81.8	81.8	82.9
82.5°	53.1	53.1	56.4	57.5	59.7	59.7	59.7	60.8	61.9	60.8	63.0
85°	36.5	36.5	38.7	39.8	42.0	42.0	42.0	43.1	44.2	43.1	44.2
87.5°	21.0	22.1	23.2	24.3	25.4	26.5	26.5	26.5	27.6	27.6	28.7
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2580.0	2566.7	2565.6	2550.2	2545.7	2546.8	2534.7	2530.3	2510.4	2505.9	2484.9
5°	2589.9	2596.6	2593.3	2592.2	2595.5	2593.3	2584.4	2580.0	2576.7	2567.8	2550.2
7.5°	2480.5	2484.9	2488.3	2502.6	2514.8	2535.8	2557.9	2572.3	2583.3	2585.5	2571.2
10°	2368.9	2389.9	2404.2	2426.3	2444.0	2456.2	2469.5	2481.6	2513.7	2545.7	2564.5
12.5°	2311.4	2316.9	2315.8	2328.0	2340.1	2372.2	2403.1	2420.8	2445.1	2459.5	2493.8
15°	2262.7	2263.9	2267.2	2276.0	2282.6	2293.7	2308.1	2334.6	2383.2	2405.3	2424.1
17.5°	2218.5	2218.5	2220.7	2228.5	2237.3	2247.3	2256.1	2267.2	2291.5	2328.0	2374.4
20°	2147.8	2178.7	2182.1	2180.9	2185.4	2204.2	2206.4	2226.3	2238.4	2252.8	2298.1
22.5°	2042.8	2061.6	2088.1	2129.0	2144.5	2153.3	2159.9	2168.8	2187.6	2204.2	2223.0
25°	1985.3	1997.5	2005.2	2017.4	2049.4	2101.4	2111.3	2121.3	2133.4	2145.6	2168.8
27.5°	1934.4	1933.3	1938.9	1949.9	1958.8	1986.4	2035.0	2073.7	2075.9	2093.6	2113.5
30°	1898.0	1891.3	1883.6	1881.4	1893.5	1907.9	1922.3	1983.1	2025.1	2033.9	2054.9
32.5°	1863.7	1852.6	1841.6	1832.7	1825.0	1837.2	1846.0	1872.5	1926.7	1977.6	1988.6
35°	1821.7	1810.6	1797.4	1787.4	1775.3	1774.2	1773.1	1798.5	1816.2	1877.0	1930.0
37.5°	1778.6	1766.4	1755.4	1744.3	1732.2	1723.3	1717.8	1724.4	1741.0	1767.5	1856.0
40°	1733.3	1718.9	1707.8	1699.0	1682.4	1675.8	1664.7	1660.3	1661.4	1684.6	1731.1
42.5°	1035.8	1651.5	1657.0	1647.0	1632.7	1623.8	1611.7	1606.1	1595.1	1606.1	1632.7
45°	399.0	403.5	1208.2	1596.2	1578.5	1567.5	1556.4	1550.9	1538.7	1529.9	1554.2
47.5°	391.3	395.7	386.9	548.3	1506.7	1510.0	1496.7	1491.2	1479.0	1472.4	1465.8
50°	385.8	389.1	382.5	384.7	376.9	1380.6	1435.9	1429.3	1416.0	1408.3	1395.0
52.5°	380.3	380.3	375.8	370.3	368.1	369.2	1161.8	1366.3	1350.8	1343.1	1325.4
55°	362.6	364.8	369.2	360.4	358.1	357.0	353.7	1106.5	1278.9	1270.1	1254.6
57.5°	336.0	340.5	352.6	350.4	350.4	341.6	339.4	339.4	1026.9	1196.0	1180.6
60°	305.1	309.5	322.8	327.2	330.5	328.3	326.1	325.0	320.6	1082.2	1102.1
62.5°	273.0	277.5	281.9	296.2	300.7	306.2	312.8	309.5	305.1	305.1	1019.2
65°	238.8	245.4	247.6	260.9	266.4	276.3	281.9	289.6	287.4	286.3	291.8
67.5°	208.9	216.7	217.8	223.3	233.2	237.7	244.3	258.7	265.3	267.5	269.7
70°	183.5	187.9	191.2	193.4	200.1	201.2	213.3	223.3	233.2	244.3	247.6
72.5°	158.1	161.4	168.0	165.8	168.0	172.4	179.1	185.7	195.7	211.1	221.1
75°	129.3	131.5	136.0	138.2	142.6	145.9	150.3	155.9	164.7	172.4	185.7
77.5°	103.9	105.0	108.3	109.4	113.9	117.2	124.9	128.2	133.8	139.3	147.0
80°	84.0	84.0	85.1	85.1	88.4	91.7	97.3	100.6	107.2	111.6	111.6
82.5°	64.1	64.1	67.4	67.4	69.6	69.6	73.0	73.0	76.3	78.5	80.7
85°	45.3	46.4	48.6	47.5	49.7	48.6	50.8	53.1	54.2	53.1	52.0
87.5°	29.8	29.8	32.1	31.0	32.1	32.1	34.3	34.3	35.4	35.4	34.3
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2477.2	2460.6	2450.7	2438.5	2435.2	2431.9	2436.3	2436.3	2429.7	2424.1	2414.2
5°	2534.7	2517.0	2498.2	2478.3	2459.5	2439.6	2431.9	2430.8	2418.6	2412.0	2408.7
7.5°	2564.5	2555.7	2534.7	2507.0	2478.3	2442.9	2427.5	2418.6	2406.5	2404.2	2404.2
10°	2567.8	2557.9	2546.8	2526.9	2493.8	2447.4	2417.5	2399.8	2388.8	2396.5	2410.9
12.5°	2535.8	2554.6	2544.6	2531.4	2504.8	2448.5	2405.3	2378.8	2375.5	2395.4	2433.0
15°	2454.0	2509.3	2536.9	2523.6	2502.6	2446.2	2385.4	2354.5	2354.5	2395.4	2444.0
17.5°	2392.1	2435.2	2502.6	2513.7	2489.4	2441.8	2366.7	2330.2	2340.1	2399.8	2451.8
20°	2341.2	2367.8	2433.0	2494.9	2471.7	2431.9	2339.0	2301.4	2321.3	2393.2	2462.8
22.5°	2261.6	2314.7	2354.5	2446.2	2454.0	2413.1	2311.4	2266.1	2305.9	2393.2	2457.3
25°	2184.3	2248.4	2290.4	2379.9	2427.5	2389.9	2286.0	2228.5	2289.3	2389.9	2452.9
27.5°	2130.1	2159.9	2236.2	2300.3	2387.7	2358.9	2251.7	2187.6	2268.3	2372.2	2427.5
30°	2072.6	2092.5	2167.7	2228.5	2334.6	2323.5	2216.3	2142.3	2241.7	2355.6	2361.1
32.5°	2009.6	2031.7	2070.4	2158.8	2260.5	2290.4	2176.5	2096.9	2213.0	2330.2	2283.8
35°	1945.5	1962.1	1993.0	2088.1	2174.3	2240.6	2127.9	2045.0	2193.1	2291.5	2209.7
37.5°	1881.4	1899.1	1925.6	2005.2	2083.7	2194.2	2085.9	1993.0	2156.6	2223.0	2132.3
40°	1820.6	1830.5	1858.2	1907.9	2008.5	2146.7	2038.4	1938.9	2119.0	2135.6	2027.3
42.5°	1708.9	1758.7	1784.1	1823.9	1923.4	2081.5	1983.1	1881.4	2077.0	2048.3	1922.3
45°	1588.5	1696.8	1707.8	1747.6	1848.2	2011.8	1931.1	1825.0	2037.2	1973.1	1822.8
47.5°	1490.1	1568.6	1632.7	1665.8	1758.7	1930.0	1882.5	1777.5	1977.6	1878.1	1725.5
50°	1402.7	1444.8	1560.8	1585.1	1651.5	1831.6	1825.0	1722.2	1894.7	1758.7	1630.5
52.5°	1317.6	1347.5	1452.5	1504.4	1558.6	1725.5	1756.5	1668.0	1804.0	1639.3	1534.3
55°	1243.6	1253.5	1311.0	1420.4	1469.1	1618.3	1681.3	1605.0	1689.0	1525.4	1441.4
57.5°	1167.3	1158.5	1200.5	1340.8	1376.2	1508.9	1601.7	1540.9	1596.2	1409.4	1345.3
60°	1087.7	1075.6	1093.2	1186.1	1277.8	1400.5	1507.8	1470.2	1483.4	1294.4	1238.0
62.5°	1004.8	992.6	987.1	1045.7	1181.7	1288.9	1412.7	1391.7	1345.3	1189.4	1105.4
65°	918.6	906.4	897.6	920.8	1075.6	1144.1	1306.6	1301.1	1193.8	1078.9	930.7
67.5°	279.7	824.6	805.8	804.7	906.4	1012.5	1191.6	1182.8	1041.3	960.6	801.4
70°	252.0	668.8	710.8	700.8	745.0	878.8	1060.1	1053.4	893.2	770.5	708.6
72.5°	231.0	236.6	627.9	616.8	626.8	747.2	923.0	905.3	757.2	608.0	612.4
75°	197.9	207.8	216.7	520.6	507.4	619.0	773.8	746.1	624.5	501.9	511.8
77.5°	161.4	173.5	180.2	379.2	410.1	441.1	617.9	581.4	430.0	401.3	191.2
80°	120.5	130.4	141.5	151.4	311.7	308.4	458.7	422.3	299.6	249.8	149.2
82.5°	88.4	91.7	98.4	109.4	123.8	206.7	295.1	259.8	207.8	113.9	102.8
85°	55.3	59.7	63.0	66.3	75.2	123.8	145.9	116.1	87.3	69.6	65.2
87.5°	35.4	35.4	34.3	35.4	36.5	44.2	49.7	47.5	37.6	35.4	35.4
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: 4SNLED-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2403.1	2387.7	2387.7	2383.2	2386.6	2386.6	2385.4	2386.6	2394.3	2398.7	2406.5
5°	2402.0	2397.6	2407.6	2419.7	2434.1	2451.8	2456.2	2471.7	2486.0	2504.8	2524.7
7.5°	2416.4	2431.9	2450.7	2470.6	2499.3	2520.3	2539.1	2557.9	2571.2	2588.8	2599.9
10°	2437.4	2468.4	2500.4	2525.8	2556.8	2574.5	2586.6	2588.8	2570.0	2540.2	2515.9
12.5°	2467.2	2503.7	2533.6	2557.9	2572.3	2565.6	2530.3	2493.8	2472.8	2441.8	2398.7
15°	2492.7	2525.8	2556.8	2546.8	2508.1	2471.7	2444.0	2400.9	2358.9	2330.2	2311.4
17.5°	2503.7	2535.8	2524.7	2472.8	2436.3	2394.3	2337.9	2304.8	2277.1	2255.0	2244.0
20°	2510.4	2504.8	2445.1	2407.6	2336.8	2298.1	2261.6	2230.7	2209.7	2198.6	2196.4
22.5°	2492.7	2425.2	2374.4	2307.0	2255.0	2223.0	2194.2	2168.8	2154.4	2145.6	2140.0
25°	2434.1	2355.6	2280.4	2227.4	2183.2	2155.5	2133.4	2112.4	2094.7	2090.3	2079.3
27.5°	2352.3	2288.2	2188.7	2147.8	2109.1	2095.8	2071.5	2050.5	2035.0	2021.8	1986.4
30°	2284.9	2183.2	2111.3	2073.7	2050.5	2035.0	2007.4	1985.3	1958.8	1910.1	1890.2
32.5°	2202.0	2101.4	2032.8	2011.8	1983.1	1969.8	1938.9	1890.2	1849.3	1829.4	1828.3
35°	2094.7	2011.8	1962.1	1943.3	1920.1	1898.0	1833.9	1789.6	1769.7	1772.0	1788.5
37.5°	2005.2	1931.1	1899.1	1872.5	1846.0	1789.6	1735.5	1714.5	1720.0	1731.1	1738.8
40°	1914.5	1858.2	1821.7	1800.7	1741.0	1685.7	1657.0	1664.7	1674.7	1682.4	1692.4
42.5°	1826.1	1786.3	1749.8	1708.9	1627.1	1597.3	1603.9	1613.9	1622.7	1633.8	1643.7
45°	1742.1	1706.7	1664.7	1571.9	1531.0	1538.7	1548.7	1556.4	1569.7	1577.4	1587.4
47.5°	1662.5	1624.9	1550.9	1469.1	1464.7	1480.1	1489.0	1498.9	1508.9	1489.0	821.3
50°	1573.0	1534.3	1421.5	1390.6	1400.5	1414.9	1426.0	1435.9	1278.9	508.5	391.3
52.5°	1484.5	1386.2	1314.3	1323.2	1333.1	1349.7	1357.4	1008.1	401.3	382.5	383.6
55°	1386.2	1260.2	1239.2	1250.2	1259.0	1275.6	845.6	370.3	368.1	367.0	375.8
57.5°	1231.4	1155.1	1164.0	1175.0	1183.9	835.7	360.4	358.1	359.3	360.4	361.5
60°	1093.2	1076.7	1086.6	1096.6	776.0	348.2	341.6	342.7	347.1	343.8	334.9
62.5°	983.8	997.1	1007.0	882.1	330.5	327.2	330.5	327.2	319.5	313.9	302.9
65°	899.8	913.1	920.8	310.6	309.5	313.9	310.6	299.6	287.4	271.9	268.6
67.5°	811.4	824.6	295.1	287.4	291.8	286.3	273.0	259.8	250.9	237.7	232.1
70°	719.6	308.4	267.5	266.4	258.7	249.8	235.4	222.2	211.1	205.6	200.1
72.5°	519.5	244.3	241.0	232.1	218.9	206.7	194.5	186.8	181.3	178.0	174.7
75°	216.7	212.2	202.3	186.8	173.5	168.0	159.2	153.7	151.4	144.8	142.6
77.5°	181.3	172.4	158.1	147.0	139.3	136.0	129.3	122.7	119.4	118.3	113.9
80°	139.3	127.1	120.5	115.0	112.8	105.0	97.3	94.0	91.7	90.6	87.3
82.5°	95.1	90.6	86.2	78.5	78.5	75.2	71.9	69.6	67.4	67.4	65.2
85°	61.9	58.6	57.5	54.2	54.2	52.0	50.8	49.7	48.6	47.5	46.4
87.5°	35.4	35.4	36.5	35.4	35.4	34.3	33.2	32.1	31.0	31.0	28.7
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2416.4	2427.5	2429.7	2467.2	2488.3	2487.1	2480.5	2500.4	2488.3	2481.6	2488.3
5°	2544.6	2557.9	2568.9	2609.8	2624.2	2630.8	2629.7	2640.8	2632.0	2624.2	2624.2
7.5°	2607.6	2612.1	2616.5	2606.5	2599.9	2588.8	2572.3	2547.9	2535.8	2522.5	2505.9
10°	2503.7	2489.4	2494.9	2475.0	2458.4	2446.2	2430.8	2410.9	2394.3	2382.1	2363.3
12.5°	2376.6	2375.5	2377.7	2381.0	2364.4	2354.5	2342.3	2328.0	2315.8	2302.5	2287.1
15°	2299.2	2300.3	2309.2	2305.9	2300.3	2294.8	2281.5	2277.1	2266.1	2251.7	2242.9
17.5°	2244.0	2249.5	2258.3	2253.9	2245.1	2239.5	2229.6	2219.6	2209.7	2198.6	2185.4
20°	2195.3	2200.8	2206.4	2200.8	2184.3	2176.5	2163.3	2132.3	2110.2	2088.1	2068.2
22.5°	2142.3	2145.6	2141.2	2123.5	2081.5	2061.6	2046.1	2037.2	2018.5	2006.3	1994.1
25°	2075.9	2057.1	2028.4	2008.5	1991.9	1983.1	1976.5	1975.3	1973.1	1970.9	1965.4
27.5°	1967.6	1961.0	1945.5	1937.8	1938.9	1942.2	1943.3	1946.6	1943.3	1938.9	1934.4
30°	1886.9	1890.2	1891.3	1893.5	1899.1	1902.4	1903.5	1907.9	1905.7	1902.4	1900.2
32.5°	1836.1	1843.8	1848.2	1854.9	1858.2	1863.7	1863.7	1870.3	1863.7	1862.6	1860.4
35°	1794.1	1800.7	1802.9	1812.9	1816.2	1821.7	1821.7	1827.2	1821.7	1765.3	1393.9
37.5°	1752.1	1758.7	1763.1	1772.0	1773.1	1776.4	1639.3	1199.4	773.8	599.1	457.6
40°	1702.3	1710.1	1714.5	1717.8	1207.1	766.0	527.3	428.9	428.9	432.2	435.5
42.5°	1649.3	1654.8	1152.9	671.0	417.8	416.7	420.1	423.4	426.7	431.1	435.5
45°	1296.6	654.4	415.6	405.7	409.0	413.4	417.8	422.3	427.8	432.2	434.4
47.5°	425.6	399.0	404.6	400.2	405.7	411.2	415.6	420.1	421.2	422.3	421.2
50°	393.5	393.5	396.8	396.8	401.3	403.5	403.5	403.5	399.0	397.9	394.6
52.5°	380.3	389.1	384.7	386.9	384.7	381.4	378.0	374.7	368.1	365.9	361.5
55°	373.6	376.9	365.9	362.6	358.1	349.3	344.9	340.5	334.9	332.7	327.2
57.5°	358.1	350.4	338.3	332.7	325.0	316.1	311.7	308.4	302.9	300.7	297.4
60°	329.4	313.9	306.2	299.6	290.7	283.0	279.7	277.5	273.0	271.9	268.6
62.5°	294.0	280.8	274.1	265.3	258.7	254.2	250.9	249.8	245.4	245.4	243.2
65°	255.3	248.7	243.2	234.3	231.0	226.6	225.5	224.4	222.2	221.1	218.9
67.5°	224.4	220.0	212.2	207.8	205.6	202.3	200.1	197.9	193.4	191.2	187.9
70°	196.8	193.4	185.7	182.4	178.0	172.4	169.1	166.9	163.6	161.4	158.1
72.5°	170.2	160.3	154.8	151.4	148.1	142.6	141.5	139.3	136.0	134.9	131.5
75°	137.1	129.3	126.0	123.8	120.5	117.2	117.2	117.2	113.9	112.8	111.6
77.5°	109.4	105.0	102.8	100.6	99.5	97.3	94.0	92.9	89.5	89.5	88.4
80°	84.0	81.8	79.6	78.5	77.4	75.2	73.0	71.9	68.5	68.5	67.4
82.5°	61.9	60.8	59.7	58.6	57.5	56.4	53.1	52.0	49.7	49.7	48.6
85°	44.2	43.1	40.9	39.8	39.8	38.7	35.4	34.3	32.1	32.1	32.1
87.5°	27.6	26.5	25.4	24.3	23.2	22.1	19.9	18.8	18.8	16.6	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2475.0	2493.8	2491.6	2504.8	2508.1	2514.8	2517.0	2518.1	2501.5	2514.8	2515.9
5°	2620.9	2624.2	2626.4	2632.0	2637.5	2638.6	2633.1	2626.4	2628.6	2624.2	2613.2
7.5°	2503.7	2487.1	2483.8	2479.4	2477.2	2475.0	2465.0	2473.9	2463.9	2459.5	2444.0
10°	2360.0	2344.5	2343.4	2343.4	2346.8	2345.7	2343.4	2339.0	2347.9	2342.3	2339.0
12.5°	2284.9	2279.3	2282.6	2280.4	2289.3	2291.5	2289.3	2289.3	2287.1	2282.6	2284.9
15°	2239.5	2235.1	2238.4	2235.1	2241.7	2242.9	2237.3	2240.6	2235.1	2229.6	2227.4
17.5°	2179.8	2169.9	2162.2	2151.1	2152.2	2150.0	2143.4	2143.4	2137.8	2123.5	2124.6
20°	2064.9	2054.9	2050.5	2050.5	2056.0	2058.3	2057.1	2059.4	2053.8	2051.6	2042.8
22.5°	1993.0	1991.9	1994.1	1999.7	2008.5	2020.7	2021.8	2021.8	2021.8	2020.7	2009.6
25°	1967.6	1967.6	1969.8	1977.6	1984.2	1993.0	1995.2	1997.5	1995.2	1995.2	1985.3
27.5°	1938.9	1936.7	1941.1	1948.8	1956.6	1963.2	1968.7	1969.8	1966.5	1966.5	1969.8
30°	1903.5	1902.4	1907.9	1915.7	1922.3	1928.9	1934.4	1938.9	1934.4	1934.4	1931.1
32.5°	1867.0	1867.0	1869.2	1822.8	1690.2	1522.1	1525.4	1428.2	1360.7	1275.6	1388.4
35°	1165.1	847.8	728.5	616.8	538.3	487.5	486.4	469.8	462.1	456.5	455.4
37.5°	439.9	442.2	446.6	448.8	452.1	454.3	455.4	455.4	455.4	455.4	454.3
40°	438.8	443.3	446.6	449.9	453.2	455.4	455.4	456.5	457.6	457.6	457.6
42.5°	439.9	444.4	448.8	452.1	454.3	455.4	456.5	457.6	457.6	457.6	457.6
45°	438.8	441.1	441.1	442.2	442.2	442.2	443.3	443.3	442.2	441.1	443.3
47.5°	422.3	422.3	418.9	417.8	416.7	414.5	415.6	414.5	413.4	412.3	414.5
50°	393.5	389.1	386.9	384.7	383.6	381.4	382.5	381.4	380.3	378.0	381.4
52.5°	359.3	358.1	353.7	351.5	350.4	351.5	349.3	348.2	347.1	346.0	347.1
55°	326.1	321.7	320.6	318.4	317.2	318.4	317.2	316.1	315.0	313.9	315.0
57.5°	296.2	292.9	291.8	289.6	289.6	289.6	289.6	288.5	287.4	286.3	287.4
60°	267.5	265.3	264.2	264.2	263.1	263.1	263.1	262.0	260.9	260.9	262.0
62.5°	243.2	243.2	239.9	238.8	238.8	239.9	238.8	237.7	236.6	235.4	237.7
65°	217.8	213.3	212.2	210.0	207.8	208.9	207.8	206.7	205.6	204.5	206.7
67.5°	186.8	185.7	181.3	179.1	178.0	179.1	178.0	176.9	175.8	174.7	176.9
70°	157.0	157.0	152.5	151.4	150.3	150.3	149.2	149.2	148.1	147.0	149.2
72.5°	130.4	130.4	129.3	127.1	126.0	124.9	123.8	122.7	122.7	123.8	123.8
75°	108.3	106.1	101.7	102.8	101.7	100.6	100.6	99.5	98.4	100.6	99.5
77.5°	85.1	84.0	80.7	81.8	80.7	79.6	79.6	78.5	77.4	78.5	78.5
80°	64.1	64.1	63.0	61.9	61.9	60.8	59.7	59.7	58.6	59.7	59.7
82.5°	46.4	46.4	45.3	44.2	43.1	43.1	42.0	42.0	42.0	42.0	42.0
85°	29.8	28.7	28.7	26.5	26.5	26.5	25.4	25.4	25.4	25.4	25.4
87.5°	14.4	14.4	13.3	13.3	12.2	11.1	11.1	9.9	9.9	11.1	11.1
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2496.0	2510.4	2498.2	2503.7	2504.8	2523.6	2522.5	2526.9	2519.2	2510.4	2498.2
5°	2623.1	2616.5	2607.6	2628.6	2617.6	2630.8	2635.3	2644.1	2644.1	2643.0	2633.1
7.5°	2460.6	2446.2	2457.3	2465.0	2468.4	2459.5	2477.2	2497.1	2513.7	2523.6	2524.7
10°	2333.5	2337.9	2336.8	2340.1	2347.9	2346.8	2357.8	2368.9	2373.3	2379.9	2382.1
12.5°	2273.8	2272.7	2274.9	2282.6	2287.1	2286.0	2297.0	2303.6	2305.9	2307.0	2305.9
15°	2226.3	2218.5	2224.1	2225.2	2228.5	2228.5	2241.7	2251.7	2256.1	2258.3	2256.1
17.5°	2136.7	2117.9	2135.6	2135.6	2147.8	2145.6	2166.6	2183.2	2192.0	2198.6	2198.6
20°	2048.3	2039.5	2046.1	2043.9	2052.7	2051.6	2064.9	2075.9	2083.7	2089.2	2095.8
22.5°	2012.9	2015.1	2005.2	2006.3	2006.3	2005.2	2011.8	2017.4	2019.6	2022.9	2020.7
25°	1989.7	1991.9	1988.6	1983.1	1980.9	1983.1	1986.4	1993.0	1994.1	1991.9	1984.2
27.5°	1966.5	1959.9	1965.4	1955.4	1953.2	1957.7	1962.1	1963.2	1964.3	1964.3	1957.7
30°	1931.1	1925.6	1931.1	1926.7	1922.3	1926.7	1930.0	1930.0	1932.2	1933.3	1925.6
32.5°	1349.7	1360.7	1539.8	1648.1	1800.7	1878.1	1892.4	1892.4	1894.7	1894.7	1888.0
35°	459.8	461.0	498.5	540.5	630.1	740.6	885.4	960.6	1214.8	1518.8	1812.9
37.5°	454.3	453.2	452.1	451.0	449.9	448.8	446.6	445.5	452.1	536.1	727.4
40°	456.5	455.4	453.2	452.1	451.0	448.8	447.7	445.5	443.3	441.1	438.8
42.5°	456.5	455.4	454.3	453.2	452.1	451.0	448.8	446.6	444.4	441.1	437.7
45°	441.1	441.1	442.2	442.2	443.3	443.3	443.3	442.2	442.2	441.1	436.6
47.5°	412.3	412.3	415.6	415.6	417.8	420.1	420.1	422.3	425.6	427.8	428.9
50°	379.2	379.2	382.5	383.6	385.8	389.1	392.4	393.5	396.8	401.3	405.7
52.5°	346.0	346.0	349.3	349.3	351.5	354.8	358.1	359.3	363.7	368.1	373.6
55°	315.0	315.0	317.2	318.4	319.5	321.7	325.0	325.0	329.4	332.7	338.3
57.5°	287.4	289.6	289.6	289.6	290.7	292.9	295.1	295.1	298.5	301.8	306.2
60°	260.9	263.1	263.1	263.1	264.2	265.3	267.5	267.5	269.7	271.9	276.3
62.5°	236.6	238.8	238.8	239.9	239.9	241.0	243.2	242.1	244.3	245.4	248.7
65°	205.6	207.8	208.9	210.0	211.1	213.3	216.7	215.6	218.9	221.1	224.4
67.5°	175.8	178.0	178.0	179.1	180.2	182.4	184.6	184.6	187.9	190.1	194.5
70°	148.1	150.3	150.3	151.4	152.5	154.8	157.0	155.9	159.2	161.4	164.7
72.5°	122.7	124.9	124.9	126.0	126.0	128.2	130.4	132.6	132.6	134.9	137.1
75°	99.5	100.6	101.7	101.7	102.8	103.9	106.1	108.3	109.4	110.5	112.8
77.5°	78.5	79.6	80.7	80.7	81.8	82.9	84.0	88.4	90.6	91.7	91.7
80°	59.7	60.8	60.8	60.8	61.9	63.0	65.2	65.2	69.6	69.6	70.7
82.5°	42.0	43.1	43.1	43.1	44.2	46.4	47.5	48.6	50.8	52.0	52.0
85°	25.4	26.5	26.5	26.5	27.6	28.7	31.0	32.1	33.2	33.2	34.3
87.5°	9.9	11.1	12.2	12.2	13.3	14.4	15.5	16.6	17.7	17.7	18.8
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2484.9	2492.7	2484.9	2489.4	2494.9	2484.9	2461.7	2452.9	2449.6	2436.3	2427.5
5°	2623.1	2623.1	2619.8	2628.6	2627.5	2612.1	2587.7	2576.7	2565.6	2551.3	2540.2
7.5°	2524.7	2533.6	2539.1	2573.4	2595.5	2597.7	2613.2	2616.5	2620.9	2616.5	2609.8
10°	2383.2	2379.9	2395.4	2427.5	2446.2	2456.2	2486.0	2500.4	2512.6	2536.9	2562.3
12.5°	2303.6	2308.1	2314.7	2337.9	2355.6	2351.2	2363.3	2373.3	2387.7	2412.0	2448.5
15°	2250.6	2255.0	2261.6	2279.3	2290.4	2284.9	2291.5	2298.1	2308.1	2320.2	2342.3
17.5°	2193.1	2200.8	2208.6	2227.4	2237.3	2236.2	2241.7	2244.0	2247.3	2255.0	2270.5
20°	2103.6	2127.9	2143.4	2168.8	2183.2	2180.9	2190.9	2194.2	2198.6	2206.4	2213.0
22.5°	2021.8	2028.4	2036.1	2063.8	2088.1	2117.9	2124.6	2133.4	2144.5	2152.2	2158.8
25°	1975.3	1970.9	1974.2	1993.0	2006.3	2008.5	2018.5	2047.2	2077.0	2090.3	2105.8
27.5°	1947.7	1943.3	1942.2	1951.0	1953.2	1947.7	1945.5	1954.3	1976.5	1998.6	2045.0
30°	1917.9	1912.3	1907.9	1915.7	1919.0	1911.2	1896.9	1889.1	1902.4	1907.9	1926.7
32.5°	1882.5	1877.0	1874.8	1879.2	1881.4	1874.8	1859.3	1850.4	1848.2	1843.8	1848.2
35°	1842.7	1837.2	1833.9	1835.0	1839.4	1833.9	1820.6	1809.5	1804.0	1791.8	1783.0
37.5°	949.5	1345.3	1746.5	1788.5	1793.0	1791.8	1778.6	1766.4	1760.9	1746.5	1742.1
40°	434.4	485.3	728.5	951.7	1372.9	1744.3	1732.2	1720.0	1710.1	1705.6	1689.0
42.5°	433.3	434.4	435.5	430.0	532.8	907.5	1339.7	1672.5	1665.8	1654.8	1642.6
45°	433.3	427.8	432.2	425.6	427.8	426.7	531.7	857.8	1526.6	1595.1	1589.6
47.5°	428.9	425.6	430.0	424.5	417.8	421.2	416.7	422.3	658.8	1117.6	1531.0
50°	409.0	411.2	418.9	417.8	412.3	416.7	409.0	415.6	410.1	449.9	866.6
52.5°	379.2	383.6	391.3	397.9	400.2	405.7	403.5	405.7	401.3	402.4	403.5
55°	343.8	349.3	355.9	365.9	370.3	379.2	385.8	389.1	394.6	393.5	384.7
57.5°	310.6	316.1	321.7	331.6	341.6	346.0	358.1	364.8	379.2	375.8	373.6
60°	279.7	284.1	289.6	291.8	304.0	311.7	322.8	329.4	348.2	352.6	359.3
62.5°	252.0	254.2	258.7	262.0	269.7	277.5	283.0	294.0	304.0	318.4	328.3
65°	226.6	228.8	232.1	234.3	235.4	246.5	249.8	262.0	265.3	280.8	289.6
67.5°	197.9	202.3	206.7	208.9	211.1	217.8	220.0	225.5	233.2	239.9	250.9
70°	168.0	171.3	175.8	179.1	183.5	187.9	194.5	197.9	203.4	207.8	216.7
72.5°	140.4	143.7	145.9	149.2	152.5	155.9	161.4	169.1	173.5	181.3	183.5
75°	113.9	117.2	119.4	121.6	124.9	127.1	129.3	137.1	141.5	148.1	154.8
77.5°	94.0	94.0	96.2	102.8	101.7	101.7	103.9	108.3	111.6	116.1	122.7
80°	73.0	74.1	75.2	80.7	81.8	82.9	81.8	85.1	88.4	89.5	94.0
82.5°	54.2	55.3	55.3	58.6	61.9	61.9	61.9	63.0	66.3	67.4	69.6
85°	36.5	37.6	38.7	39.8	42.0	43.1	44.2	44.2	46.4	47.5	48.6
87.5°	19.9	22.1	23.2	24.3	25.4	26.5	27.6	28.7	29.8	31.0	32.1
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-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2424.1	2418.6	2415.3	2406.5	2404.2	2389.9	2392.1	2389.9	2389.9	2393.2	2404.2
5°	2528.0	2501.5	2494.9	2476.1	2460.6	2434.1	2417.5	2408.7	2395.4	2389.9	2397.6
7.5°	2598.8	2578.9	2562.3	2545.7	2523.6	2492.7	2469.5	2442.9	2420.8	2399.8	2394.3
10°	2586.6	2608.7	2608.7	2598.8	2577.8	2546.8	2519.2	2486.0	2447.4	2414.2	2394.3
12.5°	2483.8	2522.5	2553.5	2576.7	2597.7	2576.7	2549.0	2522.5	2479.4	2430.8	2394.3
15°	2371.1	2410.9	2449.6	2498.2	2549.0	2570.0	2568.9	2538.0	2499.3	2448.5	2397.6
17.5°	2291.5	2319.1	2340.1	2393.2	2455.1	2509.3	2545.7	2547.9	2510.4	2465.0	2398.7
20°	2231.8	2251.7	2269.4	2299.2	2353.4	2419.7	2487.1	2524.7	2518.1	2468.4	2402.0
22.5°	2177.6	2192.0	2206.4	2228.5	2271.6	2314.7	2393.2	2470.6	2503.7	2462.8	2398.7
25°	2123.5	2138.9	2150.0	2165.5	2199.7	2235.1	2290.4	2386.6	2460.6	2458.4	2392.1
27.5°	2059.4	2080.4	2093.6	2114.6	2137.8	2164.4	2202.0	2292.6	2398.7	2436.3	2374.4
30°	1982.0	2012.9	2032.8	2056.0	2075.9	2099.2	2129.0	2184.3	2315.8	2393.2	2355.6
32.5°	1870.3	1925.6	1969.8	1991.9	2014.0	2033.9	2060.5	2106.9	2214.1	2334.6	2334.6
35°	1790.7	1816.2	1856.0	1920.1	1947.7	1967.6	1991.9	2028.4	2096.9	2265.0	2300.3
37.5°	1728.8	1738.8	1758.7	1821.7	1873.6	1905.7	1930.0	1953.2	2020.7	2169.9	2256.1
40°	1682.4	1679.1	1676.9	1706.7	1780.8	1831.6	1859.3	1882.5	1934.4	2056.0	2197.5
42.5°	1628.3	1624.9	1613.9	1621.6	1658.1	1743.2	1785.2	1810.6	1853.8	1936.7	2133.4
45°	1571.9	1566.3	1561.9	1554.2	1567.5	1615.0	1701.2	1738.8	1763.1	1837.2	2052.7
47.5°	1514.4	1506.7	1501.1	1494.5	1486.8	1508.9	1590.7	1658.1	1700.1	1746.5	1955.4
50°	1432.6	1442.5	1435.9	1428.2	1421.5	1417.1	1451.4	1561.9	1613.9	1651.5	1837.2
52.5°	675.4	1313.2	1368.5	1360.7	1351.9	1344.2	1351.9	1435.9	1529.9	1559.7	1694.6
55°	384.7	584.8	1217.0	1286.7	1278.9	1267.9	1261.3	1290.0	1430.4	1470.2	1564.1
57.5°	370.3	371.4	537.2	1159.6	1202.7	1192.7	1185.0	1191.6	1311.0	1378.4	1450.3
60°	358.1	358.1	358.1	512.9	1108.7	1112.0	1102.1	1091.0	1143.0	1275.6	1335.3
62.5°	331.6	338.3	341.6	341.6	506.3	1026.9	1017.0	1013.6	1015.9	1151.8	1220.4
65°	297.4	312.8	319.5	323.9	323.9	531.7	929.6	924.1	916.4	968.3	1104.3
67.5°	259.8	275.2	289.6	298.5	299.6	309.5	554.9	832.4	821.3	822.4	980.5
70°	221.1	234.3	249.8	263.1	275.2	280.8	289.6	690.9	727.4	711.9	840.1
72.5°	191.2	196.8	207.8	221.1	235.4	248.7	256.5	275.2	631.2	614.6	638.9
75°	159.2	163.6	171.3	180.2	191.2	206.7	220.0	233.2	334.9	515.1	511.8
77.5°	123.8	131.5	140.4	145.9	151.4	162.5	180.2	193.4	206.7	348.2	410.1
80°	95.1	100.6	105.0	110.5	117.2	124.9	131.5	147.0	162.5	174.7	313.9
82.5°	70.7	74.1	77.4	79.6	81.8	86.2	98.4	103.9	113.9	124.9	148.1
85°	49.7	52.0	54.2	55.3	56.4	57.5	61.9	63.0	73.0	75.2	89.5
87.5°	32.1	33.2	35.4	36.5	36.5	37.6	38.7	38.7	38.7	36.5	44.2
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: 4SNLED-LD5-56HL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2412.0	2412.0
2.5°	2413.1	2430.8
5°	2409.8	2433.0
7.5°	2400.9	2423.0
10°	2387.7	2414.2
12.5°	2373.3	2398.7
15°	2361.1	2379.9
17.5°	2347.9	2358.9
20°	2330.2	2339.0
22.5°	2312.5	2308.1
25°	2292.6	2282.6
27.5°	2267.2	2248.4
30°	2244.0	2210.8
32.5°	2221.8	2167.7
35°	2192.0	2123.5
37.5°	2161.1	2078.1
40°	2124.6	2026.2
42.5°	2085.9	1974.2
45°	2037.2	1924.5
47.5°	1994.1	1864.8
50°	1934.4	1800.7
52.5°	1861.5	1741.0
55°	1775.3	1668.0
57.5°	1682.4	1591.8
60°	1582.9	1504.4
62.5°	1462.4	1413.8
65°	1321.0	1309.9
67.5°	1136.3	1194.9
70°	931.9	1063.4
72.5°	779.3	924.1
75°	638.9	768.3
77.5°	506.3	602.4
80°	316.1	441.1
82.5°	212.2	289.6
85°	128.2	138.2
87.5°	49.7	50.8
90°	0.0	0.0

(END OF REPORT)