

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-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-56HL-RW-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

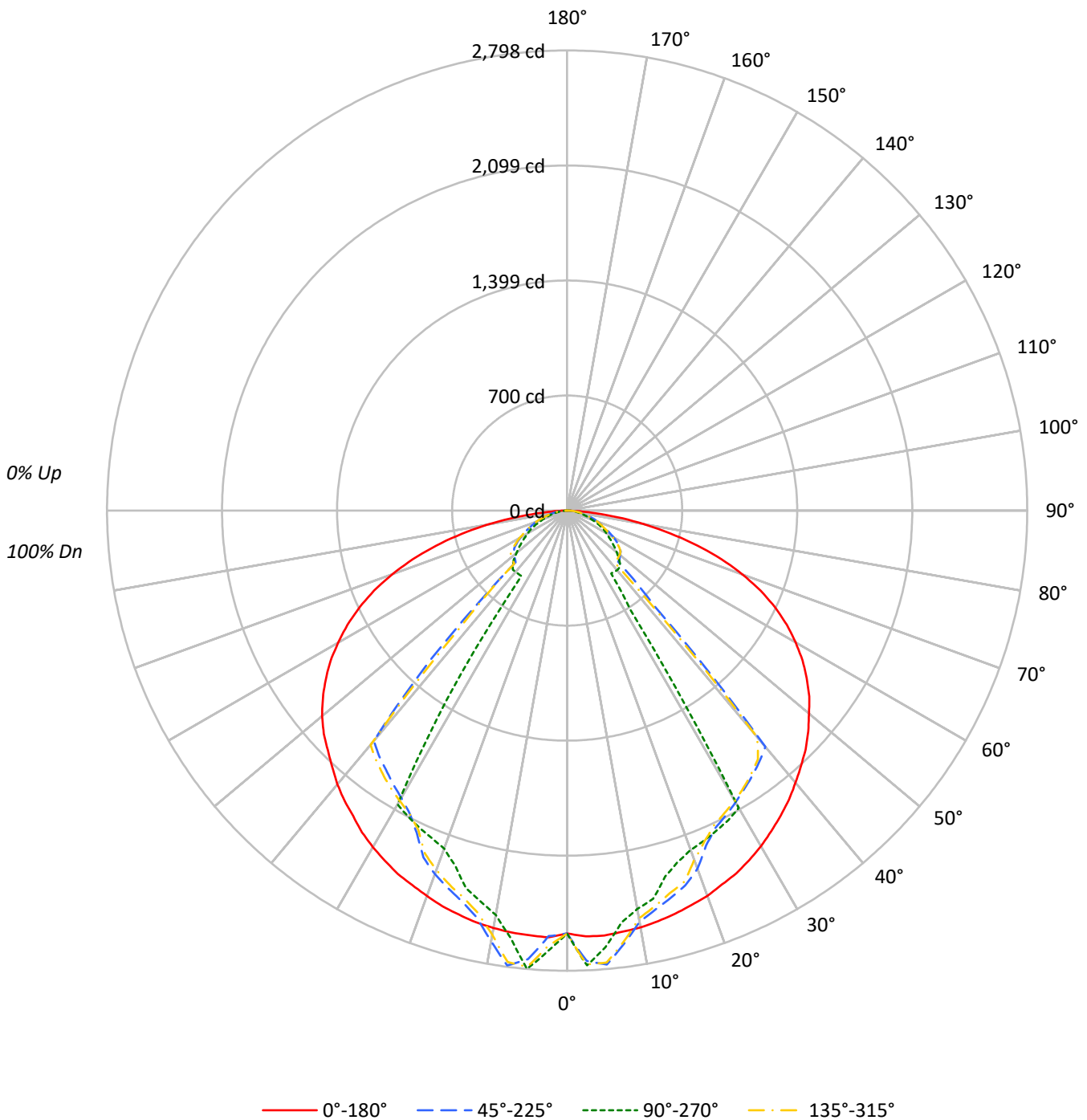
Lumens per Lamp: N/A  
Luminaire Lumens: 5149.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#  
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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°	20779	20779	20779	20779
5°	20982	20935	20973	21971
10°	21002	18927	21032	19218
15°	21049	17512	21098	18067
20°	21202	16610	21202	16547
25°	21386	16293	21416	16140
30°	21602	16005	21656	15815
35°	21853	3645	21899	3802
40°	22204	3790	22337	3914
45°	22736	3770	22814	3907
50°	23266	3408	23580	3500
55°	23982	3027	24174	3070
60°	24590	2689	24643	2724
65°	25024	2346	24961	2309
70°	24666	1891	24590	1823
75°	22901	1455	23066	1394
80°	18587	1034	19331	946
85°	10063	620	10623	475



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.0	4.9
10°-20°	695.6	13.5
20°-30°	1030.3	20.0
30°-40°	1038.1	20.2
40°-50°	810.9	15.7
50°-60°	626.4	12.2
60°-70°	420.5	8.2
70°-80°	214.5	4.2
80°-90°	59.7	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°	1978.9	38.4
0°-40°	3017.0	58.6
0°-60°	4454.2	86.5
0°-90°	5149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2571	2571	2571	2571	2571	
5°	2594	2666	2592	2798	2594	247
15°	2537	2304	2543	2377	2537	718
25°	2433	2147	2437	2127	2433	1122
35°	2264	467	2268	487	2264	1419
45°	2052	454	2059	470	2052	1582
55°	1778	330	1792	335	1778	1588
65°	1396	222	1393	218	1396	1373
75°	819	112	825	107	819	856
85°	147	35	156	27	147	203
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2591.3	2600.7	2607.8	2612.5	2614.9	2614.9	2616.1	2617.2	2632.6	2639.6	2644.3
5°	2593.7	2603.1	2617.2	2636.1	2652.6	2666.7	2678.5	2695.0	2711.5	2729.2	2735.1
7.5°	2583.1	2594.8	2623.1	2657.3	2689.1	2711.5	2726.8	2737.4	2745.7	2746.9	2752.8
10°	2573.6	2594.8	2633.7	2678.5	2718.6	2745.7	2745.7	2739.8	2748.0	2716.2	2684.4
12.5°	2557.1	2580.7	2633.7	2692.7	2730.4	2741.0	2736.3	2712.7	2664.4	2625.5	2607.8
15°	2537.1	2568.9	2634.9	2700.9	2732.7	2736.3	2691.5	2631.4	2594.8	2571.3	2541.8
17.5°	2514.7	2557.1	2636.1	2702.1	2713.9	2697.4	2612.5	2574.8	2537.1	2481.7	2441.7
20°	2493.5	2534.7	2626.7	2685.6	2692.7	2618.4	2552.4	2512.4	2448.7	2400.4	2382.7
22.5°	2460.5	2508.8	2618.4	2663.2	2636.1	2550.1	2486.4	2422.8	2365.1	2350.9	2329.7
25°	2433.4	2484.1	2599.6	2636.1	2564.2	2487.6	2413.4	2339.1	2312.0	2292.0	2273.1
27.5°	2396.9	2459.3	2574.8	2586.6	2487.6	2420.4	2312.0	2279.0	2254.3	2231.9	2223.6
30°	2356.8	2433.4	2540.6	2518.2	2424.0	2325.0	2244.9	2214.2	2196.5	2173.0	2163.6
32.5°	2310.9	2394.5	2502.9	2439.3	2355.6	2231.9	2180.0	2156.5	2132.9	2115.2	2056.3
35°	2263.7	2360.3	2458.2	2363.9	2273.1	2161.2	2115.2	2094.0	2071.6	2006.8	1945.5
37.5°	2215.4	2322.6	2403.9	2282.6	2163.6	2088.1	2049.2	2025.7	1975.0	1892.5	1861.9
40°	2160.0	2276.7	2334.4	2198.9	2068.1	2013.9	1977.4	1953.8	1839.5	1803.0	1793.5
42.5°	2104.6	2231.9	2249.6	2117.6	1989.1	1934.9	1904.3	1826.5	1748.8	1729.9	1733.4
45°	2051.6	2183.6	2156.5	2002.1	1906.7	1861.9	1810.0	1702.8	1661.6	1671.0	1673.3
47.5°	1988.0	2125.8	2058.7	1886.6	1821.8	1777.0	1661.6	1596.7	1590.8	1603.8	1610.9
50°	1919.6	2061.0	1955.0	1781.7	1729.9	1676.9	1546.1	1513.1	1520.1	1533.1	1541.4
52.5°	1856.0	1988.0	1847.7	1683.9	1639.2	1517.8	1429.4	1435.3	1447.1	1462.4	1467.1
55°	1778.2	1899.6	1733.4	1585.0	1542.5	1383.4	1343.4	1357.5	1369.3	1382.3	1391.7
57.5°	1696.9	1798.2	1597.9	1474.2	1405.8	1264.4	1268.0	1277.4	1285.6	1301.0	537.4
60°	1603.8	1682.8	1449.4	1371.7	1236.1	1170.2	1173.7	1190.2	1198.4	669.3	370.0
62.5°	1507.2	1548.4	1315.1	1255.0	1080.6	1075.9	1092.4	1099.5	748.3	353.5	346.5
65°	1396.4	1388.2	1183.1	1087.7	974.5	979.3	996.9	961.6	331.1	331.1	328.8
67.5°	1273.9	1224.4	1054.7	900.3	872.0	882.6	901.5	314.6	306.4	308.7	300.5
70°	1133.6	1064.1	921.5	762.4	771.9	782.5	304.0	285.2	281.6	275.7	259.2
72.5°	985.1	889.7	754.2	662.3	668.2	419.5	266.3	256.9	245.1	233.3	215.6
75°	819.0	695.3	553.9	553.9	562.1	239.2	232.1	216.8	203.9	188.5	177.9
77.5°	642.2	535.0	430.1	446.6	218.0	200.3	187.4	170.9	160.3	150.8	144.9
80°	470.2	373.6	324.1	289.9	169.7	152.0	139.1	129.6	124.9	119.0	111.9
82.5°	308.7	225.1	225.1	136.7	119.0	104.9	101.3	94.3	89.6	86.0	82.5
85°	147.3	130.8	99.0	83.7	74.2	67.2	64.8	61.3	61.3	60.1	58.9
87.5°	54.2	58.9	43.6	42.4	40.1	38.9	40.1	40.1	41.2	40.1	38.9
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°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2656.1	2665.6	2672.6	2684.4	2699.7	2712.7	2724.5	2741.0	2766.9	2774.0	2779.9
5°	2735.1	2738.6	2746.9	2756.3	2758.6	2764.5	2763.4	2770.4	2774.0	2782.2	2764.5
7.5°	2739.8	2720.9	2698.5	2678.5	2664.4	2651.4	2643.2	2656.1	2663.2	2669.1	2651.4
10°	2640.8	2618.4	2605.5	2593.7	2579.5	2559.5	2532.4	2538.3	2535.9	2535.9	2530.0
12.5°	2578.3	2546.5	2513.5	2484.1	2471.1	2469.9	2471.1	2484.1	2484.1	2482.9	2475.8
15°	2480.5	2449.9	2433.4	2426.3	2426.3	2422.8	2422.8	2436.9	2433.4	2433.4	2429.9
17.5°	2415.7	2394.5	2382.7	2374.5	2370.9	2376.8	2383.9	2389.8	2391.0	2386.3	2367.4
20°	2362.7	2342.7	2328.5	2330.9	2329.7	2333.2	2336.8	2316.7	2292.0	2259.0	2243.7
22.5°	2307.3	2292.0	2281.4	2281.4	2267.2	2244.9	2211.9	2204.8	2201.3	2185.9	2173.0
25°	2254.3	2236.6	2221.3	2174.2	2144.7	2148.2	2142.3	2130.6	2129.4	2128.2	2132.9
27.5°	2201.3	2155.3	2096.4	2089.3	2077.5	2076.3	2083.4	2089.3	2089.3	2094.0	2099.9
30°	2091.7	2038.6	2028.0	2015.1	2019.8	2036.3	2039.8	2048.1	2050.4	2058.7	2063.4
32.5°	1991.5	1967.9	1958.5	1964.4	1979.7	1993.9	2002.1	2005.6	2011.5	2018.6	2024.5
35°	1910.2	1903.1	1911.4	1924.3	1939.7	1951.4	1958.5	1965.6	1971.5	1977.4	1982.1
37.5°	1850.1	1854.8	1866.6	1883.1	1898.4	1907.8	1913.7	1922.0	1930.2	1937.3	1909.0
40°	1793.5	1805.3	1818.3	1836.0	1848.9	1858.3	1864.2	1874.8	1804.1	816.6	447.8
42.5°	1744.0	1757.0	1766.4	1780.6	1794.7	1801.8	1749.9	781.3	441.9	439.5	445.4
45°	1683.9	1694.5	1709.9	1720.5	1733.4	1138.3	434.8	439.5	432.5	437.2	439.5
47.5°	1622.7	1639.2	1647.4	1572.0	467.8	432.5	427.8	432.5	427.8	433.7	430.1
50°	1553.1	1573.2	1119.5	423.0	419.5	417.2	421.9	419.5	423.0	427.8	418.3
52.5°	1482.4	918.0	410.1	407.7	410.1	407.7	416.0	410.1	411.3	406.5	394.8
55°	502.0	397.1	393.6	392.4	399.5	399.5	399.5	390.1	384.2	372.4	364.1
57.5°	384.2	384.2	383.0	384.2	381.8	379.4	368.8	360.6	352.3	335.8	331.1
60°	364.1	364.1	364.1	364.1	353.5	348.8	332.3	325.2	311.1	302.8	298.1
62.5°	347.6	345.3	334.7	331.1	319.3	306.4	297.0	289.9	275.7	271.0	267.5
65°	324.1	315.8	302.8	288.7	282.8	268.7	264.0	253.4	246.3	242.8	240.4
67.5°	285.2	273.4	262.8	253.4	242.8	238.0	232.1	223.9	219.2	216.8	214.5
70°	243.9	235.7	225.1	219.2	212.1	208.6	200.3	198.0	194.4	190.9	187.4
72.5°	203.9	199.2	194.4	186.2	183.8	181.5	173.2	168.5	163.8	159.1	156.7
75°	170.9	167.3	165.0	157.9	154.4	147.3	141.4	137.9	134.3	130.8	128.4
77.5°	140.2	137.9	130.8	126.1	123.7	117.8	115.5	116.7	114.3	109.6	107.2
80°	109.6	107.2	101.3	101.3	99.0	96.6	94.3	91.9	89.6	86.0	83.7
82.5°	83.7	81.3	79.0	76.6	74.2	73.1	71.9	69.5	67.2	64.8	63.6
85°	58.9	57.7	56.6	55.4	54.2	53.0	51.8	49.5	47.1	46.0	44.8
87.5°	40.1	38.9	37.7	36.5	35.4	34.2	33.0	31.8	29.5	28.3	27.1
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°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2779.9	2785.7	2779.9	2766.9	2758.6	2755.1	2762.2	2762.2	2766.9	2772.8	2774.0
5°	2736.3	2722.1	2705.6	2689.1	2680.9	2676.2	2663.2	2665.6	2669.1	2671.4	2673.8
7.5°	2627.8	2609.0	2586.6	2565.4	2557.1	2550.1	2534.7	2534.7	2534.7	2535.9	2543.0
10°	2517.1	2508.8	2499.4	2485.3	2474.6	2471.1	2458.2	2461.7	2459.3	2462.9	2471.1
12.5°	2465.2	2455.8	2447.5	2433.4	2421.6	2416.9	2411.0	2414.6	2413.4	2419.3	2426.3
15°	2418.1	2413.4	2403.9	2393.3	2382.7	2373.3	2352.1	2345.0	2340.3	2334.4	2342.7
17.5°	2340.3	2307.3	2284.9	2268.4	2256.6	2248.4	2242.5	2242.5	2246.0	2249.6	2256.6
20°	2234.3	2224.8	2214.2	2196.5	2184.8	2180.0	2176.5	2176.5	2182.4	2187.1	2200.1
22.5°	2161.2	2160.0	2156.5	2148.2	2142.3	2142.3	2143.5	2145.9	2154.1	2161.2	2174.2
25°	2127.0	2131.7	2129.4	2124.7	2121.1	2122.3	2119.9	2122.3	2130.6	2137.6	2148.2
27.5°	2099.9	2107.0	2104.6	2097.6	2091.7	2094.0	2097.6	2095.2	2102.3	2110.5	2118.8
30°	2063.4	2064.6	2069.3	2061.0	2058.7	2062.2	2063.4	2065.7	2072.8	2078.7	2085.8
32.5°	2022.1	2031.6	2030.4	2022.1	2022.1	2025.7	2026.9	1947.9	1800.6	1550.8	1482.4
35°	1982.1	1992.7	1975.0	1665.1	1152.5	615.1	474.9	458.4	461.9	464.3	466.6
37.5°	1465.9	695.3	443.1	446.6	450.2	453.7	457.2	460.8	464.3	467.8	469.0
40°	440.7	439.5	443.1	447.8	451.3	453.7	458.4	461.9	465.5	469.0	470.2
42.5°	436.0	438.4	441.9	446.6	451.3	456.0	459.6	464.3	466.6	469.0	470.2
45°	433.7	438.4	443.1	446.6	450.2	452.5	454.9	456.0	454.9	454.9	457.2
47.5°	430.1	434.8	436.0	434.8	436.0	434.8	434.8	434.8	431.3	430.1	430.1
50°	417.2	417.2	414.8	410.1	408.9	407.7	405.4	404.2	399.5	398.3	398.3
52.5°	390.1	388.9	385.3	379.4	377.1	374.7	373.6	372.4	367.7	365.3	366.5
55°	358.2	355.9	352.3	345.3	344.1	341.7	340.6	339.4	334.7	337.0	333.5
57.5°	328.8	324.1	319.3	318.2	313.5	312.3	311.1	309.9	306.4	307.6	305.2
60°	293.4	292.2	289.9	285.2	285.2	284.0	284.0	281.6	279.3	278.1	278.1
62.5°	267.5	264.0	261.6	261.6	258.1	258.1	258.1	255.7	253.4	254.5	253.4
65°	239.2	238.0	236.9	234.5	234.5	233.3	233.3	231.0	227.4	228.6	226.3
67.5°	215.6	213.3	210.9	209.8	205.0	202.7	201.5	200.3	195.6	196.8	194.4
70°	186.2	182.7	180.3	177.9	174.4	172.0	172.0	169.7	166.2	167.3	165.0
72.5°	155.5	153.2	150.8	149.7	146.1	144.9	143.8	142.6	139.1	140.2	139.1
75°	129.6	129.6	128.4	127.3	123.7	120.2	117.8	116.7	114.3	115.5	113.1
77.5°	107.2	104.9	102.5	102.5	99.0	96.6	94.3	94.3	94.3	93.1	91.9
80°	83.7	81.3	81.3	80.1	77.8	75.4	74.2	74.2	73.1	73.1	71.9
82.5°	63.6	61.3	60.1	60.1	57.7	56.6	55.4	54.2	54.2	54.2	53.0
85°	44.8	42.4	41.2	41.2	38.9	37.7	37.7	36.5	36.5	35.4	35.4
87.5°	27.1	25.9	24.7	24.7	22.4	21.2	21.2	21.2	20.0	20.0	18.9
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2774.0	2774.0	2765.7	2768.1	2764.5	2769.3	2763.4	2763.4	2770.4	2770.4	2775.1
5°	2675.0	2669.1	2667.9	2665.6	2653.8	2658.5	2652.6	2646.7	2654.9	2654.9	2665.6
7.5°	2539.5	2528.9	2533.6	2526.5	2519.4	2508.8	2512.4	2507.6	2513.5	2521.8	2532.4
10°	2469.9	2460.5	2466.4	2459.3	2462.9	2447.5	2448.7	2449.9	2455.8	2458.2	2467.6
12.5°	2425.2	2422.8	2420.4	2418.1	2420.4	2412.2	2407.5	2408.7	2411.0	2412.2	2419.3
15°	2330.9	2315.6	2320.3	2303.8	2305.0	2306.1	2296.7	2306.1	2305.0	2320.3	2334.4
17.5°	2254.3	2254.3	2246.0	2239.0	2234.3	2233.1	2226.0	2230.7	2226.0	2235.4	2239.0
20°	2201.3	2200.1	2198.9	2195.4	2183.6	2184.8	2188.3	2177.7	2176.5	2175.3	2182.4
22.5°	2176.5	2177.7	2173.0	2173.0	2162.4	2164.7	2165.9	2154.1	2155.3	2151.8	2155.3
25°	2150.6	2152.9	2147.1	2147.1	2144.7	2143.5	2137.6	2140.0	2132.9	2127.0	2132.9
27.5°	2119.9	2124.7	2119.9	2122.3	2117.6	2115.2	2111.7	2109.3	2102.3	2101.1	2104.6
30°	2091.7	2094.0	2092.8	2087.0	2085.8	2078.7	2082.2	2075.2	2068.1	2069.3	2071.6
32.5°	1072.3	1024.0	789.5	712.9	705.9	731.8	867.3	1055.9	1368.1	1671.0	1889.0
35°	467.8	467.8	467.8	466.6	466.6	465.5	464.3	463.1	461.9	460.8	459.6
37.5°	470.2	470.2	470.2	470.2	469.0	467.8	467.8	465.5	464.3	463.1	461.9
40°	471.4	472.5	472.5	472.5	471.4	471.4	470.2	467.8	466.6	464.3	461.9
42.5°	470.2	471.4	471.4	470.2	470.2	469.0	469.0	467.8	466.6	465.5	464.3
45°	454.9	456.0	453.7	453.7	452.5	452.5	452.5	452.5	452.5	453.7	453.7
47.5°	427.8	427.8	426.6	425.4	425.4	424.2	425.4	424.2	426.6	427.8	430.1
50°	395.9	395.9	393.6	392.4	392.4	392.4	392.4	393.6	394.8	397.1	399.5
52.5°	362.9	362.9	361.8	360.6	359.4	359.4	362.9	361.8	362.9	364.1	367.7
55°	331.1	332.3	330.0	330.0	328.8	328.8	328.8	330.0	331.1	332.3	335.8
57.5°	304.0	304.0	301.7	301.7	301.7	300.5	304.0	301.7	302.8	304.0	306.4
60°	276.9	275.7	275.7	274.6	274.6	274.6	276.9	275.7	275.7	276.9	279.3
62.5°	252.2	252.2	251.0	251.0	249.8	249.8	252.2	251.0	251.0	252.2	253.4
65°	223.9	223.9	222.7	221.5	225.1	221.5	225.1	222.7	225.1	226.3	228.6
67.5°	192.1	192.1	192.1	190.9	190.9	193.3	194.4	192.1	193.3	195.6	196.8
70°	163.8	163.8	162.6	162.6	162.6	165.0	166.2	163.8	165.0	166.2	168.5
72.5°	139.1	136.7	136.7	135.5	137.9	137.9	139.1	137.9	139.1	139.1	141.4
75°	114.3	111.9	111.9	111.9	114.3	113.1	114.3	113.1	114.3	114.3	115.5
77.5°	91.9	90.7	89.6	89.6	91.9	91.9	91.9	90.7	91.9	93.1	94.3
80°	71.9	70.7	69.5	69.5	71.9	71.9	71.9	73.1	71.9	73.1	74.2
82.5°	53.0	51.8	50.7	53.0	53.0	53.0	53.0	54.2	53.0	54.2	55.4
85°	35.4	34.2	33.0	35.4	35.4	35.4	35.4	36.5	35.4	36.5	37.7
87.5°	18.9	17.7	17.7	18.9	18.9	18.9	20.0	20.0	20.0	21.2	21.2
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2782.2	2785.7	2784.6	2777.5	2770.4	2762.2	2756.3	2757.5	2769.3	2772.8	2762.2
5°	2665.6	2687.9	2687.9	2703.3	2695.0	2687.9	2692.7	2718.6	2731.5	2751.6	2758.6
7.5°	2545.4	2556.0	2554.8	2570.1	2567.7	2567.7	2571.3	2605.5	2621.9	2638.4	2643.2
10°	2478.2	2488.8	2487.6	2488.8	2485.3	2477.0	2477.0	2492.3	2506.5	2514.7	2517.1
12.5°	2429.9	2435.8	2434.6	2434.6	2432.2	2425.2	2424.0	2436.9	2452.3	2462.9	2464.0
15°	2358.0	2374.5	2378.0	2393.3	2389.8	2380.4	2382.7	2393.3	2402.8	2412.2	2408.7
17.5°	2250.8	2259.0	2260.2	2266.1	2263.7	2263.7	2277.9	2316.7	2342.7	2365.1	2367.4
20°	2189.5	2195.4	2193.0	2206.0	2200.1	2198.9	2202.4	2218.9	2230.7	2241.3	2260.2
22.5°	2160.0	2164.7	2161.2	2162.4	2151.8	2142.3	2140.0	2152.9	2165.9	2180.0	2180.0
25°	2135.3	2138.8	2137.6	2135.3	2127.0	2114.1	2111.7	2114.1	2118.8	2119.9	2111.7
27.5°	2105.8	2108.2	2108.2	2109.3	2098.7	2087.0	2084.6	2082.2	2087.0	2085.8	2072.8
30°	2075.2	2071.6	2072.8	2074.0	2064.6	2054.0	2049.2	2048.1	2052.8	2051.6	2038.6
32.5°	2002.1	2029.2	2031.6	2033.9	2025.7	2016.2	2011.5	2008.0	2010.4	2009.2	1997.4
35°	458.4	466.6	571.5	1293.9	1757.0	1945.5	1965.6	1960.9	1962.0	1962.0	1952.6
37.5°	459.6	458.4	457.2	453.7	450.2	447.8	774.2	1650.9	1912.6	1913.7	1905.5
40°	459.6	458.4	457.2	454.9	450.2	446.6	440.7	436.0	446.6	982.8	1798.2
42.5°	461.9	459.6	457.2	454.9	450.2	445.4	440.7	434.8	438.4	436.0	430.1
45°	454.9	453.7	453.7	452.5	450.2	445.4	439.5	432.5	428.9	432.5	426.6
47.5°	432.5	433.7	437.2	438.4	438.4	439.5	436.0	431.3	425.4	428.9	421.9
50°	401.8	404.2	405.4	411.3	413.6	418.3	419.5	419.5	418.3	423.0	418.3
52.5°	368.8	371.2	377.1	379.4	381.8	388.9	391.2	394.8	397.1	404.2	408.9
55°	337.0	338.2	340.6	345.3	348.8	354.7	358.2	361.8	367.7	371.2	385.3
57.5°	307.6	308.7	313.5	314.6	317.0	321.7	325.2	330.0	334.7	337.0	353.5
60°	279.3	280.5	284.0	285.2	286.4	291.1	294.6	298.1	301.7	304.0	315.8
62.5°	254.5	254.5	258.1	258.1	259.2	262.8	265.1	267.5	271.0	272.2	278.1
65°	229.8	231.0	233.3	233.3	234.5	236.9	238.0	239.2	242.8	242.8	247.5
67.5°	199.2	200.3	203.9	206.2	207.4	212.1	213.3	214.5	216.8	218.0	220.4
70°	169.7	170.9	174.4	175.6	176.8	180.3	182.7	186.2	189.7	193.3	195.6
72.5°	142.6	143.8	147.3	147.3	150.8	152.0	154.4	155.5	159.1	161.4	165.0
75°	116.7	117.8	121.4	121.4	124.9	126.1	127.3	128.4	130.8	133.2	135.5
77.5°	95.5	95.5	100.2	102.5	104.9	104.9	106.1	106.1	106.1	107.2	109.6
80°	75.4	75.4	79.0	81.3	83.7	83.7	84.8	86.0	87.2	87.2	88.4
82.5°	56.6	56.6	60.1	61.3	63.6	63.6	63.6	64.8	66.0	64.8	67.2
85°	38.9	38.9	41.2	42.4	44.8	44.8	44.8	46.0	47.1	46.0	47.1
87.5°	22.4	23.6	24.7	25.9	27.1	28.3	28.3	28.3	29.5	29.5	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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2750.4	2736.3	2735.1	2718.6	2713.9	2715.0	2702.1	2697.4	2676.2	2671.4	2649.1
5°	2761.0	2768.1	2764.5	2763.4	2766.9	2764.5	2755.1	2750.4	2746.9	2737.4	2718.6
7.5°	2644.3	2649.1	2652.6	2667.9	2680.9	2703.3	2726.8	2742.1	2753.9	2756.3	2741.0
10°	2525.3	2547.7	2563.0	2586.6	2605.5	2618.4	2632.6	2645.5	2679.7	2713.9	2733.9
12.5°	2464.0	2469.9	2468.8	2481.7	2494.7	2528.9	2561.9	2580.7	2606.6	2621.9	2658.5
15°	2412.2	2413.4	2416.9	2426.3	2433.4	2445.2	2460.5	2488.8	2540.6	2564.2	2584.2
17.5°	2365.1	2365.1	2367.4	2375.7	2385.1	2395.7	2405.1	2416.9	2442.8	2481.7	2531.2
20°	2289.6	2322.6	2326.2	2325.0	2329.7	2349.7	2352.1	2373.3	2386.3	2401.6	2449.9
22.5°	2177.7	2197.7	2226.0	2269.6	2286.1	2295.5	2302.6	2312.0	2332.1	2349.7	2369.8
25°	2116.4	2129.4	2137.6	2150.6	2184.8	2240.1	2250.8	2261.4	2274.3	2287.3	2312.0
27.5°	2062.2	2061.0	2066.9	2078.7	2088.1	2117.6	2169.4	2210.7	2213.0	2231.9	2253.1
30°	2023.3	2016.2	2008.0	2005.6	2018.6	2033.9	2049.2	2114.1	2158.8	2168.3	2190.7
32.5°	1986.8	1975.0	1963.2	1953.8	1945.5	1958.5	1967.9	1996.2	2054.0	2108.2	2119.9
35°	1942.0	1930.2	1916.1	1905.5	1892.5	1891.3	1890.2	1917.3	1936.1	2000.9	2057.5
37.5°	1896.1	1883.1	1871.3	1859.5	1846.6	1837.1	1831.2	1838.3	1856.0	1884.3	1978.5
40°	1847.7	1832.4	1820.6	1811.2	1793.5	1786.5	1774.7	1770.0	1771.1	1795.9	1845.4
42.5°	1104.2	1760.5	1766.4	1755.8	1740.5	1731.1	1718.1	1712.2	1700.4	1712.2	1740.5
45°	425.4	430.1	1288.0	1701.6	1682.8	1671.0	1659.2	1653.3	1640.3	1630.9	1656.8
47.5°	417.2	421.9	412.4	584.5	1606.2	1609.7	1595.6	1589.7	1576.7	1569.6	1562.6
50°	411.3	414.8	407.7	410.1	401.8	1471.8	1530.7	1523.7	1509.5	1501.3	1487.1
52.5°	405.4	405.4	400.7	394.8	392.4	393.6	1238.5	1456.5	1440.0	1431.8	1412.9
55°	386.5	388.9	393.6	384.2	381.8	380.6	377.1	1179.6	1363.4	1354.0	1337.5
57.5°	358.2	362.9	375.9	373.6	373.6	364.1	361.8	361.8	1094.7	1275.0	1258.5
60°	325.2	330.0	344.1	348.8	352.3	350.0	347.6	346.5	341.7	1153.7	1174.9
62.5°	291.1	295.8	300.5	315.8	320.5	326.4	333.5	330.0	325.2	325.2	1086.5
65°	254.5	261.6	264.0	278.1	284.0	294.6	300.5	308.7	306.4	305.2	311.1
67.5°	222.7	231.0	232.1	238.0	248.6	253.4	260.4	275.7	282.8	285.2	287.5
70°	195.6	200.3	203.9	206.2	213.3	214.5	227.4	238.0	248.6	260.4	264.0
72.5°	168.5	172.0	179.1	176.8	179.1	183.8	190.9	198.0	208.6	225.1	235.7
75°	137.9	140.2	144.9	147.3	152.0	155.5	160.3	166.2	175.6	183.8	198.0
77.5°	110.8	111.9	115.5	116.7	121.4	124.9	133.2	136.7	142.6	148.5	156.7
80°	89.6	89.6	90.7	90.7	94.3	97.8	103.7	107.2	114.3	119.0	119.0
82.5°	68.3	68.3	71.9	71.9	74.2	74.2	77.8	77.8	81.3	83.7	86.0
85°	48.3	49.5	51.8	50.7	53.0	51.8	54.2	56.6	57.7	56.6	55.4
87.5°	31.8	31.8	34.2	33.0	34.2	34.2	36.5	36.5	37.7	37.7	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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2640.8	2623.1	2612.5	2599.6	2596.0	2592.5	2597.2	2597.2	2590.1	2584.2	2573.6
5°	2702.1	2683.2	2663.2	2642.0	2621.9	2600.7	2592.5	2591.3	2578.3	2571.3	2567.7
7.5°	2733.9	2724.5	2702.1	2672.6	2642.0	2604.3	2587.8	2578.3	2565.4	2563.0	2563.0
10°	2737.4	2726.8	2715.0	2693.8	2658.5	2609.0	2577.2	2558.3	2546.5	2554.8	2570.1
12.5°	2703.3	2723.3	2712.7	2698.5	2670.3	2610.2	2564.2	2535.9	2532.4	2553.6	2593.7
15°	2616.1	2675.0	2704.4	2690.3	2667.9	2607.8	2543.0	2510.0	2510.0	2553.6	2605.5
17.5°	2550.1	2596.0	2667.9	2679.7	2653.8	2603.1	2523.0	2484.1	2494.7	2558.3	2613.7
20°	2495.9	2524.1	2593.7	2659.7	2634.9	2592.5	2493.5	2453.4	2474.6	2551.2	2625.5
22.5°	2411.0	2467.6	2510.0	2607.8	2616.1	2572.5	2464.0	2415.7	2458.2	2551.2	2619.6
25°	2328.5	2396.9	2441.7	2537.1	2587.8	2547.7	2436.9	2375.7	2440.5	2547.7	2614.9
27.5°	2270.8	2302.6	2383.9	2452.3	2545.4	2514.7	2400.4	2332.1	2418.1	2528.9	2587.8
30°	2209.5	2230.7	2310.9	2375.7	2488.8	2477.0	2362.7	2283.7	2389.8	2511.2	2517.1
32.5°	2142.3	2165.9	2207.2	2301.4	2409.8	2441.7	2320.3	2235.4	2359.2	2484.1	2434.6
35°	2074.0	2091.7	2124.7	2226.0	2317.9	2388.6	2268.4	2180.0	2338.0	2442.8	2355.6
37.5°	2005.6	2024.5	2052.8	2137.6	2221.3	2339.1	2223.6	2124.7	2299.1	2369.8	2273.1
40°	1940.8	1951.4	1980.9	2033.9	2141.2	2288.5	2173.0	2066.9	2259.0	2276.7	2161.2
42.5°	1821.8	1874.8	1901.9	1944.4	2050.4	2218.9	2114.1	2005.6	2214.2	2183.6	2049.2
45°	1693.4	1808.9	1820.6	1863.1	1970.3	2144.7	2058.7	1945.5	2171.8	2103.5	1943.2
47.5°	1588.5	1672.2	1740.5	1775.9	1874.8	2057.5	2006.8	1894.9	2108.2	2002.1	1839.5
50°	1495.4	1540.2	1663.9	1689.8	1760.5	1952.6	1945.5	1836.0	2019.8	1874.8	1738.1
52.5°	1404.7	1436.5	1548.4	1603.8	1661.6	1839.5	1872.5	1778.2	1923.2	1747.6	1635.6
55°	1325.7	1336.3	1397.6	1514.2	1566.1	1725.2	1792.4	1711.0	1800.6	1626.2	1536.6
57.5°	1244.4	1235.0	1279.7	1429.4	1467.1	1608.5	1707.5	1642.7	1701.6	1502.5	1434.1
60°	1159.5	1146.6	1165.4	1264.4	1362.2	1493.0	1607.3	1567.3	1581.4	1379.9	1319.8
62.5°	1071.2	1058.2	1052.3	1114.8	1259.7	1374.0	1506.0	1483.6	1434.1	1268.0	1178.4
65°	979.3	966.3	956.9	981.6	1146.6	1219.6	1392.9	1387.0	1272.7	1150.1	992.2
67.5°	298.1	879.1	859.1	857.9	966.3	1079.4	1270.3	1260.9	1110.1	1024.0	854.3
70°	268.7	712.9	757.7	747.1	794.2	936.8	1130.1	1123.0	952.2	821.3	755.4
72.5°	246.3	252.2	669.3	657.5	668.2	796.6	984.0	965.1	807.2	648.1	652.8
75°	210.9	221.5	231.0	555.0	540.9	659.9	824.9	795.4	665.8	535.0	545.6
77.5°	172.0	185.0	192.1	404.2	437.2	470.2	658.7	619.8	458.4	427.8	203.9
80°	128.4	139.1	150.8	161.4	332.3	328.8	489.0	450.2	319.3	266.3	159.1
82.5°	94.3	97.8	104.9	116.7	132.0	220.4	314.6	276.9	221.5	121.4	109.6
85°	58.9	63.6	67.2	70.7	80.1	132.0	155.5	123.7	93.1	74.2	69.5
87.5°	37.7	37.7	36.5	37.7	38.9	47.1	53.0	50.7	40.1	37.7	37.7
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2561.9	2545.4	2545.4	2540.6	2544.2	2544.2	2543.0	2544.2	2552.4	2557.1	2565.4
5°	2560.7	2556.0	2566.6	2579.5	2594.8	2613.7	2618.4	2634.9	2650.2	2670.3	2691.5
7.5°	2576.0	2592.5	2612.5	2633.7	2664.4	2686.8	2706.8	2726.8	2741.0	2759.8	2771.6
10°	2598.4	2631.4	2665.6	2692.7	2725.6	2744.5	2757.5	2759.8	2739.8	2708.0	2682.0
12.5°	2630.2	2669.1	2700.9	2726.8	2742.1	2735.1	2697.4	2658.5	2636.1	2603.1	2557.1
15°	2657.3	2692.7	2725.6	2715.0	2673.8	2634.9	2605.5	2559.5	2514.7	2484.1	2464.0
17.5°	2669.1	2703.3	2691.5	2636.1	2597.2	2552.4	2492.3	2457.0	2427.5	2403.9	2392.2
20°	2676.2	2670.3	2606.6	2566.6	2491.1	2449.9	2411.0	2378.0	2355.6	2343.8	2341.5
22.5°	2657.3	2585.4	2531.2	2459.3	2403.9	2369.8	2339.1	2312.0	2296.7	2287.3	2281.4
25°	2594.8	2511.2	2431.0	2374.5	2327.3	2297.9	2274.3	2251.9	2233.1	2228.4	2216.6
27.5°	2507.6	2439.3	2333.2	2289.6	2248.4	2234.3	2208.3	2185.9	2169.4	2155.3	2117.6
30°	2435.8	2327.3	2250.8	2210.7	2185.9	2169.4	2140.0	2116.4	2088.1	2036.3	2015.1
32.5°	2347.4	2240.1	2167.1	2144.7	2114.1	2099.9	2066.9	2015.1	1971.5	1950.3	1949.1
35°	2233.1	2144.7	2091.7	2071.6	2046.9	2023.3	1955.0	1907.8	1886.6	1889.0	1906.7
37.5°	2137.6	2058.7	2024.5	1996.2	1967.9	1907.8	1850.1	1827.7	1833.6	1845.4	1853.6
40°	2041.0	1980.9	1942.0	1919.6	1856.0	1797.1	1766.4	1774.7	1785.3	1793.5	1804.1
42.5°	1946.7	1904.3	1865.4	1821.8	1734.6	1702.8	1709.9	1720.5	1729.9	1741.7	1752.3
45°	1857.2	1819.5	1774.7	1675.7	1632.1	1640.3	1650.9	1659.2	1673.3	1681.6	1692.2
47.5°	1772.3	1732.3	1653.3	1566.1	1561.4	1577.9	1587.3	1597.9	1608.5	1587.3	875.6
50°	1676.9	1635.6	1515.4	1482.4	1493.0	1508.4	1520.1	1530.7	1363.4	542.1	417.2
52.5°	1582.6	1477.7	1401.1	1410.5	1421.2	1438.8	1447.1	1074.7	427.8	407.7	408.9
55°	1477.7	1343.4	1321.0	1332.8	1342.2	1359.9	901.5	394.8	392.4	391.2	400.7
57.5°	1312.7	1231.4	1240.9	1252.6	1262.1	890.9	384.2	381.8	383.0	384.2	385.3
60°	1165.4	1147.8	1158.4	1169.0	827.2	371.2	364.1	365.3	370.0	366.5	357.1
62.5°	1048.8	1062.9	1073.5	940.4	352.3	348.8	352.3	348.8	340.6	334.7	322.9
65°	959.2	973.4	981.6	331.1	330.0	334.7	331.1	319.3	306.4	289.9	286.4
67.5°	864.9	879.1	314.6	306.4	311.1	305.2	291.1	276.9	267.5	253.4	247.5
70°	767.1	328.8	285.2	284.0	275.7	266.3	251.0	236.9	225.1	219.2	213.3
72.5°	553.9	260.4	256.9	247.5	233.3	220.4	207.4	199.2	193.3	189.7	186.2
75°	231.0	226.3	215.6	199.2	185.0	179.1	169.7	163.8	161.4	154.4	152.0
77.5°	193.3	183.8	168.5	156.7	148.5	144.9	137.9	130.8	127.3	126.1	121.4
80°	148.5	135.5	128.4	122.6	120.2	111.9	103.7	100.2	97.8	96.6	93.1
82.5°	101.3	96.6	91.9	83.7	83.7	80.1	76.6	74.2	71.9	71.9	69.5
85°	66.0	62.5	61.3	57.7	57.7	55.4	54.2	53.0	51.8	50.7	49.5
87.5°	37.7	37.7	38.9	37.7	37.7	36.5	35.4	34.2	33.0	33.0	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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2576.0	2587.8	2590.1	2630.2	2652.6	2651.4	2644.3	2665.6	2652.6	2645.5	2652.6
5°	2712.7	2726.8	2738.6	2782.2	2797.5	2804.6	2803.4	2815.2	2805.8	2797.5	2797.5
7.5°	2779.9	2784.6	2789.3	2778.7	2771.6	2759.8	2742.1	2716.2	2703.3	2689.1	2671.4
10°	2669.1	2653.8	2659.7	2638.4	2620.8	2607.8	2591.3	2570.1	2552.4	2539.5	2519.4
12.5°	2533.6	2532.4	2534.7	2538.3	2520.6	2510.0	2497.0	2481.7	2468.8	2454.6	2438.1
15°	2451.1	2452.3	2461.7	2458.2	2452.3	2446.4	2432.2	2427.5	2415.7	2400.4	2391.0
17.5°	2392.2	2398.1	2407.5	2402.8	2393.3	2387.4	2376.8	2366.2	2355.6	2343.8	2329.7
20°	2340.3	2346.2	2352.1	2346.2	2328.5	2320.3	2306.1	2273.1	2249.6	2226.0	2204.8
22.5°	2283.7	2287.3	2282.6	2263.7	2218.9	2197.7	2181.2	2171.8	2151.8	2138.8	2125.8
25°	2213.0	2193.0	2162.4	2141.2	2123.5	2114.1	2107.0	2105.8	2103.5	2101.1	2095.2
27.5°	2097.6	2090.5	2074.0	2065.7	2066.9	2070.5	2071.6	2075.2	2071.6	2066.9	2062.2
30°	2011.5	2015.1	2016.2	2018.6	2024.5	2028.0	2029.2	2033.9	2031.6	2028.0	2025.7
32.5°	1957.3	1965.6	1970.3	1977.4	1980.9	1986.8	1986.8	1993.9	1986.8	1985.6	1983.3
35°	1912.6	1919.6	1922.0	1932.6	1936.1	1942.0	1942.0	1947.9	1942.0	1881.9	1486.0
37.5°	1867.8	1874.8	1879.6	1889.0	1890.2	1893.7	1747.6	1278.6	824.9	638.7	487.9
40°	1814.7	1823.0	1827.7	1831.2	1286.8	816.6	562.1	457.2	457.2	460.8	464.3
42.5°	1758.2	1764.1	1229.1	715.3	445.4	444.3	447.8	451.3	454.9	459.6	464.3
45°	1382.3	697.6	443.1	432.5	436.0	440.7	445.4	450.2	456.0	460.8	463.1
47.5°	453.7	425.4	431.3	426.6	432.5	438.4	443.1	447.8	449.0	450.2	449.0
50°	419.5	419.5	423.0	423.0	427.8	430.1	430.1	430.1	425.4	424.2	420.7
52.5°	405.4	414.8	410.1	412.4	410.1	406.5	403.0	399.5	392.4	390.1	385.3
55°	398.3	401.8	390.1	386.5	381.8	372.4	367.7	362.9	357.1	354.7	348.8
57.5°	381.8	373.6	360.6	354.7	346.5	337.0	332.3	328.8	322.9	320.5	317.0
60°	351.2	334.7	326.4	319.3	309.9	301.7	298.1	295.8	291.1	289.9	286.4
62.5°	313.5	299.3	292.2	282.8	275.7	271.0	267.5	266.3	261.6	261.6	259.2
65°	272.2	265.1	259.2	249.8	246.3	241.6	240.4	239.2	236.9	235.7	233.3
67.5°	239.2	234.5	226.3	221.5	219.2	215.6	213.3	210.9	206.2	203.9	200.3
70°	209.8	206.2	198.0	194.4	189.7	183.8	180.3	177.9	174.4	172.0	168.5
72.5°	181.5	170.9	165.0	161.4	157.9	152.0	150.8	148.5	144.9	143.8	140.2
75°	146.1	137.9	134.3	132.0	128.4	124.9	124.9	124.9	121.4	120.2	119.0
77.5°	116.7	111.9	109.6	107.2	106.1	103.7	100.2	99.0	95.5	95.5	94.3
80°	89.6	87.2	84.8	83.7	82.5	80.1	77.8	76.6	73.1	73.1	71.9
82.5°	66.0	64.8	63.6	62.5	61.3	60.1	56.6	55.4	53.0	53.0	51.8
85°	47.1	46.0	43.6	42.4	42.4	41.2	37.7	36.5	34.2	34.2	34.2
87.5°	29.5	28.3	27.1	25.9	24.7	23.6	21.2	20.0	20.0	17.7	16.5
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2638.4	2658.5	2656.1	2670.3	2673.8	2680.9	2683.2	2684.4	2666.7	2680.9	2682.0
5°	2794.0	2797.5	2799.9	2805.8	2811.7	2812.9	2807.0	2799.9	2802.2	2797.5	2785.7
7.5°	2669.1	2651.4	2647.9	2643.2	2640.8	2638.4	2627.8	2637.3	2626.7	2621.9	2605.5
10°	2515.9	2499.4	2498.2	2498.2	2501.8	2500.6	2498.2	2493.5	2502.9	2497.0	2493.5
12.5°	2435.8	2429.9	2433.4	2431.0	2440.5	2442.8	2440.5	2440.5	2438.1	2433.4	2435.8
15°	2387.4	2382.7	2386.3	2382.7	2389.8	2391.0	2385.1	2388.6	2382.7	2376.8	2374.5
17.5°	2323.8	2313.2	2305.0	2293.2	2294.4	2292.0	2284.9	2284.9	2279.0	2263.7	2264.9
20°	2201.3	2190.7	2185.9	2185.9	2191.8	2194.2	2193.0	2195.4	2189.5	2187.1	2177.7
22.5°	2124.7	2123.5	2125.8	2131.7	2141.2	2154.1	2155.3	2155.3	2155.3	2154.1	2142.3
25°	2097.6	2097.6	2099.9	2108.2	2115.2	2124.7	2127.0	2129.4	2127.0	2127.0	2116.4
27.5°	2066.9	2064.6	2069.3	2077.5	2085.8	2092.8	2098.7	2099.9	2096.4	2096.4	2099.9
30°	2029.2	2028.0	2033.9	2042.2	2049.2	2056.3	2062.2	2066.9	2062.2	2062.2	2058.7
32.5°	1990.3	1990.3	1992.7	1943.2	1801.8	1622.7	1626.2	1522.5	1450.6	1359.9	1480.1
35°	1242.0	903.8	776.6	657.5	573.9	519.7	518.5	500.8	492.6	486.7	485.5
37.5°	469.0	471.4	476.1	478.4	482.0	484.3	485.5	485.5	485.5	485.5	484.3
40°	467.8	472.5	476.1	479.6	483.1	485.5	485.5	486.7	487.9	487.9	487.9
42.5°	469.0	473.7	478.4	482.0	484.3	485.5	486.7	487.9	487.9	487.9	487.9
45°	467.8	470.2	470.2	471.4	471.4	471.4	472.5	472.5	471.4	470.2	472.5
47.5°	450.2	450.2	446.6	445.4	444.3	441.9	443.1	441.9	440.7	439.5	441.9
50°	419.5	414.8	412.4	410.1	408.9	406.5	407.7	406.5	405.4	403.0	406.5
52.5°	383.0	381.8	377.1	374.7	373.6	374.7	372.4	371.2	370.0	368.8	370.0
55°	347.6	342.9	341.7	339.4	338.2	339.4	338.2	337.0	335.8	334.7	335.8
57.5°	315.8	312.3	311.1	308.7	308.7	308.7	308.7	307.6	306.4	305.2	306.4
60°	285.2	282.8	281.6	281.6	280.5	280.5	280.5	279.3	278.1	278.1	279.3
62.5°	259.2	259.2	255.7	254.5	254.5	255.7	254.5	253.4	252.2	251.0	253.4
65°	232.1	227.4	226.3	223.9	221.5	222.7	221.5	220.4	219.2	218.0	220.4
67.5°	199.2	198.0	193.3	190.9	189.7	190.9	189.7	188.5	187.4	186.2	188.5
70°	167.3	167.3	162.6	161.4	160.3	160.3	159.1	159.1	157.9	156.7	159.1
72.5°	139.1	139.1	137.9	135.5	134.3	133.2	132.0	130.8	130.8	132.0	132.0
75°	115.5	113.1	108.4	109.6	108.4	107.2	107.2	106.1	104.9	107.2	106.1
77.5°	90.7	89.6	86.0	87.2	86.0	84.8	84.8	83.7	82.5	83.7	83.7
80°	68.3	68.3	67.2	66.0	66.0	64.8	63.6	63.6	62.5	63.6	63.6
82.5°	49.5	49.5	48.3	47.1	46.0	46.0	44.8	44.8	44.8	44.8	44.8
85°	31.8	30.6	30.6	28.3	28.3	28.3	27.1	27.1	27.1	27.1	27.1
87.5°	15.3	15.3	14.1	14.1	13.0	11.8	11.8	10.6	10.6	11.8	11.8
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2660.8	2676.2	2663.2	2669.1	2670.3	2690.3	2689.1	2693.8	2685.6	2676.2	2663.2
5°	2796.4	2789.3	2779.9	2802.2	2790.5	2804.6	2809.3	2818.7	2818.7	2817.6	2807.0
7.5°	2623.1	2607.8	2619.6	2627.8	2631.4	2621.9	2640.8	2662.0	2679.7	2690.3	2691.5
10°	2487.6	2492.3	2491.1	2494.7	2502.9	2501.8	2513.5	2525.3	2530.0	2537.1	2539.5
12.5°	2424.0	2422.8	2425.2	2433.4	2438.1	2436.9	2448.7	2455.8	2458.2	2459.3	2458.2
15°	2373.3	2365.1	2370.9	2372.1	2375.7	2375.7	2389.8	2400.4	2405.1	2407.5	2405.1
17.5°	2277.9	2257.8	2276.7	2276.7	2289.6	2287.3	2309.7	2327.3	2336.8	2343.8	2343.8
20°	2183.6	2174.2	2181.2	2178.9	2188.3	2187.1	2201.3	2213.0	2221.3	2227.2	2234.3
22.5°	2145.9	2148.2	2137.6	2138.8	2138.8	2137.6	2144.7	2150.6	2152.9	2156.5	2154.1
25°	2121.1	2123.5	2119.9	2114.1	2111.7	2114.1	2117.6	2124.7	2125.8	2123.5	2115.2
27.5°	2096.4	2089.3	2095.2	2084.6	2082.2	2087.0	2091.7	2092.8	2094.0	2094.0	2087.0
30°	2058.7	2052.8	2058.7	2054.0	2049.2	2054.0	2057.5	2057.5	2059.9	2061.0	2052.8
32.5°	1438.8	1450.6	1641.5	1757.0	1919.6	2002.1	2017.4	2017.4	2019.8	2019.8	2012.7
35°	490.2	491.4	531.5	576.2	671.7	789.5	943.9	1024.0	1295.1	1619.1	1932.6
37.5°	484.3	483.1	482.0	480.8	479.6	478.4	476.1	474.9	482.0	571.5	775.4
40°	486.7	485.5	483.1	482.0	480.8	478.4	477.3	474.9	472.5	470.2	467.8
42.5°	486.7	485.5	484.3	483.1	482.0	480.8	478.4	476.1	473.7	470.2	466.6
45°	470.2	470.2	471.4	471.4	472.5	472.5	472.5	471.4	471.4	470.2	465.5
47.5°	439.5	439.5	443.1	443.1	445.4	447.8	447.8	450.2	453.7	456.0	457.2
50°	404.2	404.2	407.7	408.9	411.3	414.8	418.3	419.5	423.0	427.8	432.5
52.5°	368.8	368.8	372.4	372.4	374.7	378.3	381.8	383.0	387.7	392.4	398.3
55°	335.8	335.8	338.2	339.4	340.6	342.9	346.5	346.5	351.2	354.7	360.6
57.5°	306.4	308.7	308.7	308.7	309.9	312.3	314.6	314.6	318.2	321.7	326.4
60°	278.1	280.5	280.5	280.5	281.6	282.8	285.2	285.2	287.5	289.9	294.6
62.5°	252.2	254.5	254.5	255.7	255.7	256.9	259.2	258.1	260.4	261.6	265.1
65°	219.2	221.5	222.7	223.9	225.1	227.4	231.0	229.8	233.3	235.7	239.2
67.5°	187.4	189.7	189.7	190.9	192.1	194.4	196.8	196.8	200.3	202.7	207.4
70°	157.9	160.3	160.3	161.4	162.6	165.0	167.3	166.2	169.7	172.0	175.6
72.5°	130.8	133.2	133.2	134.3	134.3	136.7	139.1	141.4	141.4	143.8	146.1
75°	106.1	107.2	108.4	108.4	109.6	110.8	113.1	115.5	116.7	117.8	120.2
77.5°	83.7	84.8	86.0	86.0	87.2	88.4	89.6	94.3	96.6	97.8	97.8
80°	63.6	64.8	64.8	64.8	66.0	67.2	69.5	69.5	74.2	74.2	75.4
82.5°	44.8	46.0	46.0	46.0	47.1	49.5	50.7	51.8	54.2	55.4	55.4
85°	27.1	28.3	28.3	28.3	29.5	30.6	33.0	34.2	35.4	35.4	36.5
87.5°	10.6	11.8	13.0	13.0	14.1	15.3	16.5	17.7	18.9	18.9	20.0
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-LD5-56HL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2649.1	2657.3	2649.1	2653.8	2659.7	2649.1	2624.3	2614.9	2611.3	2597.2	2587.8
5°	2796.4	2796.4	2792.8	2802.2	2801.1	2784.6	2758.6	2746.9	2735.1	2719.8	2708.0
7.5°	2691.5	2700.9	2706.8	2743.3	2766.9	2769.3	2785.7	2789.3	2794.0	2789.3	2782.2
10°	2540.6	2537.1	2553.6	2587.8	2607.8	2618.4	2650.2	2665.6	2678.5	2704.4	2731.5
12.5°	2455.8	2460.5	2467.6	2492.3	2511.2	2506.5	2519.4	2530.0	2545.4	2571.3	2610.2
15°	2399.2	2403.9	2411.0	2429.9	2441.7	2435.8	2442.8	2449.9	2460.5	2473.5	2497.0
17.5°	2338.0	2346.2	2354.5	2374.5	2385.1	2383.9	2389.8	2392.2	2395.7	2403.9	2420.4
20°	2242.5	2268.4	2284.9	2312.0	2327.3	2325.0	2335.6	2339.1	2343.8	2352.1	2359.2
22.5°	2155.3	2162.4	2170.6	2200.1	2226.0	2257.8	2264.9	2274.3	2286.1	2294.4	2301.4
25°	2105.8	2101.1	2104.6	2124.7	2138.8	2141.2	2151.8	2182.4	2214.2	2228.4	2244.9
27.5°	2076.3	2071.6	2070.5	2079.9	2082.2	2076.3	2074.0	2083.4	2107.0	2130.6	2180.0
30°	2044.5	2038.6	2033.9	2042.2	2045.7	2037.5	2022.1	2013.9	2028.0	2033.9	2054.0
32.5°	2006.8	2000.9	1998.6	2003.3	2005.6	1998.6	1982.1	1972.6	1970.3	1965.6	1970.3
35°	1964.4	1958.5	1955.0	1956.2	1960.9	1955.0	1940.8	1929.0	1923.2	1910.2	1900.8
37.5°	1012.2	1434.1	1861.9	1906.7	1911.4	1910.2	1896.1	1883.1	1877.2	1861.9	1857.2
40°	463.1	517.3	776.6	1014.6	1463.6	1859.5	1846.6	1833.6	1823.0	1818.3	1800.6
42.5°	461.9	463.1	464.3	458.4	568.0	967.5	1428.2	1782.9	1775.9	1764.1	1751.1
45°	461.9	456.0	460.8	453.7	456.0	454.9	566.8	914.4	1627.4	1700.4	1694.5
47.5°	457.2	453.7	458.4	452.5	445.4	449.0	444.3	450.2	702.3	1191.4	1632.1
50°	436.0	438.4	446.6	445.4	439.5	444.3	436.0	443.1	437.2	479.6	923.9
52.5°	404.2	408.9	417.2	424.2	426.6	432.5	430.1	432.5	427.8	428.9	430.1
55°	366.5	372.4	379.4	390.1	394.8	404.2	411.3	414.8	420.7	419.5	410.1
57.5°	331.1	337.0	342.9	353.5	364.1	368.8	381.8	388.9	404.2	400.7	398.3
60°	298.1	302.8	308.7	311.1	324.1	332.3	344.1	351.2	371.2	375.9	383.0
62.5°	268.7	271.0	275.7	279.3	287.5	295.8	301.7	313.5	324.1	339.4	350.0
65°	241.6	243.9	247.5	249.8	251.0	262.8	266.3	279.3	282.8	299.3	308.7
67.5°	210.9	215.6	220.4	222.7	225.1	232.1	234.5	240.4	248.6	255.7	267.5
70°	179.1	182.7	187.4	190.9	195.6	200.3	207.4	210.9	216.8	221.5	231.0
72.5°	149.7	153.2	155.5	159.1	162.6	166.2	172.0	180.3	185.0	193.3	195.6
75°	121.4	124.9	127.3	129.6	133.2	135.5	137.9	146.1	150.8	157.9	165.0
77.5°	100.2	100.2	102.5	109.6	108.4	108.4	110.8	115.5	119.0	123.7	130.8
80°	77.8	79.0	80.1	86.0	87.2	88.4	87.2	90.7	94.3	95.5	100.2
82.5°	57.7	58.9	58.9	62.5	66.0	66.0	66.0	67.2	70.7	71.9	74.2
85°	38.9	40.1	41.2	42.4	44.8	46.0	47.1	47.1	49.5	50.7	51.8
87.5°	21.2	23.6	24.7	25.9	27.1	28.3	29.5	30.6	31.8	33.0	34.2
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3	2571.3
2.5°	2584.2	2578.3	2574.8	2565.4	2563.0	2547.7	2550.1	2547.7	2547.7	2551.2	2563.0
5°	2695.0	2666.7	2659.7	2639.6	2623.1	2594.8	2577.2	2567.7	2553.6	2547.7	2556.0
7.5°	2770.4	2749.2	2731.5	2713.9	2690.3	2657.3	2632.6	2604.3	2580.7	2558.3	2552.4
10°	2757.5	2781.0	2781.0	2770.4	2748.0	2715.0	2685.6	2650.2	2609.0	2573.6	2552.4
12.5°	2647.9	2689.1	2722.1	2746.9	2769.3	2746.9	2717.4	2689.1	2643.2	2591.3	2552.4
15°	2527.7	2570.1	2611.3	2663.2	2717.4	2739.8	2738.6	2705.6	2664.4	2610.2	2556.0
17.5°	2442.8	2472.3	2494.7	2551.2	2617.2	2675.0	2713.9	2716.2	2676.2	2627.8	2557.1
20°	2379.2	2400.4	2419.3	2451.1	2508.8	2579.5	2651.4	2691.5	2684.4	2631.4	2560.7
22.5°	2321.5	2336.8	2352.1	2375.7	2421.6	2467.6	2551.2	2633.7	2669.1	2625.5	2557.1
25°	2263.7	2280.2	2292.0	2308.5	2345.0	2382.7	2441.7	2544.2	2623.1	2620.8	2550.1
27.5°	2195.4	2217.8	2231.9	2254.3	2279.0	2307.3	2347.4	2444.0	2557.1	2597.2	2531.2
30°	2112.9	2145.9	2167.1	2191.8	2213.0	2237.8	2269.6	2328.5	2468.8	2551.2	2511.2
32.5°	1993.9	2052.8	2099.9	2123.5	2147.1	2168.3	2196.5	2246.0	2360.3	2488.8	2488.8
35°	1909.0	1936.1	1978.5	2046.9	2076.3	2097.6	2123.5	2162.4	2235.4	2414.6	2452.3
37.5°	1843.0	1853.6	1874.8	1942.0	1997.4	2031.6	2057.5	2082.2	2154.1	2313.2	2405.1
40°	1793.5	1790.0	1787.6	1819.5	1898.4	1952.6	1982.1	2006.8	2062.2	2191.8	2342.7
42.5°	1735.8	1732.3	1720.5	1728.7	1767.6	1858.3	1903.1	1930.2	1976.2	2064.6	2274.3
45°	1675.7	1669.8	1665.1	1656.8	1671.0	1721.6	1813.6	1853.6	1879.6	1958.5	2188.3
47.5°	1614.4	1606.2	1600.3	1593.2	1585.0	1608.5	1695.7	1767.6	1812.4	1861.9	2084.6
50°	1527.2	1537.8	1530.7	1522.5	1515.4	1510.7	1547.2	1665.1	1720.5	1760.5	1958.5
52.5°	720.0	1399.9	1458.9	1450.6	1441.2	1432.9	1441.2	1530.7	1630.9	1662.7	1806.5
55°	410.1	623.4	1297.4	1371.7	1363.4	1351.6	1344.6	1375.2	1524.9	1567.3	1667.4
57.5°	394.8	395.9	572.7	1236.1	1282.1	1271.5	1263.2	1270.3	1397.6	1469.5	1546.1
60°	381.8	381.8	381.8	546.8	1181.9	1185.5	1174.9	1163.1	1218.5	1359.9	1423.5
62.5°	353.5	360.6	364.1	364.1	539.7	1094.7	1084.1	1080.6	1083.0	1227.9	1301.0
65°	317.0	333.5	340.6	345.3	345.3	566.8	991.0	985.1	976.9	1032.3	1177.2
67.5°	276.9	293.4	308.7	318.2	319.3	330.0	591.6	887.3	875.6	876.7	1045.2
70°	235.7	249.8	266.3	280.5	293.4	299.3	308.7	736.5	775.4	758.9	895.6
72.5°	203.9	209.8	221.5	235.7	251.0	265.1	273.4	293.4	672.9	655.2	681.1
75°	169.7	174.4	182.7	192.1	203.9	220.4	234.5	248.6	357.1	549.1	545.6
77.5°	132.0	140.2	149.7	155.5	161.4	173.2	192.1	206.2	220.4	371.2	437.2
80°	101.3	107.2	111.9	117.8	124.9	133.2	140.2	156.7	173.2	186.2	334.7
82.5°	75.4	79.0	82.5	84.8	87.2	91.9	104.9	110.8	121.4	133.2	157.9
85°	53.0	55.4	57.7	58.9	60.1	61.3	66.0	67.2	77.8	80.1	95.5
87.5°	34.2	35.4	37.7	38.9	38.9	40.1	41.2	41.2	41.2	38.9	47.1
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	2571.3	2571.3
2.5°	2572.5	2591.3
5°	2568.9	2593.7
7.5°	2559.5	2583.1
10°	2545.4	2573.6
12.5°	2530.0	2557.1
15°	2517.1	2537.1
17.5°	2502.9	2514.7
20°	2484.1	2493.5
22.5°	2465.2	2460.5
25°	2444.0	2433.4
27.5°	2416.9	2396.9
30°	2392.2	2356.8
32.5°	2368.6	2310.9
35°	2336.8	2263.7
37.5°	2303.8	2215.4
40°	2264.9	2160.0
42.5°	2223.6	2104.6
45°	2171.8	2051.6
47.5°	2125.8	1988.0
50°	2062.2	1919.6
52.5°	1984.4	1856.0
55°	1892.5	1778.2
57.5°	1793.5	1696.9
60°	1687.5	1603.8
62.5°	1559.0	1507.2
65°	1408.2	1396.4
67.5°	1211.4	1273.9
70°	993.4	1133.6
72.5°	830.8	985.1
75°	681.1	819.0
77.5°	539.7	642.2
80°	337.0	470.2
82.5°	226.3	308.7
85°	136.7	147.3
87.5°	53.0	54.2
90°	0.0	0.0

(END OF REPORT)