

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-LD5-170HL-LW-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 (P33520)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

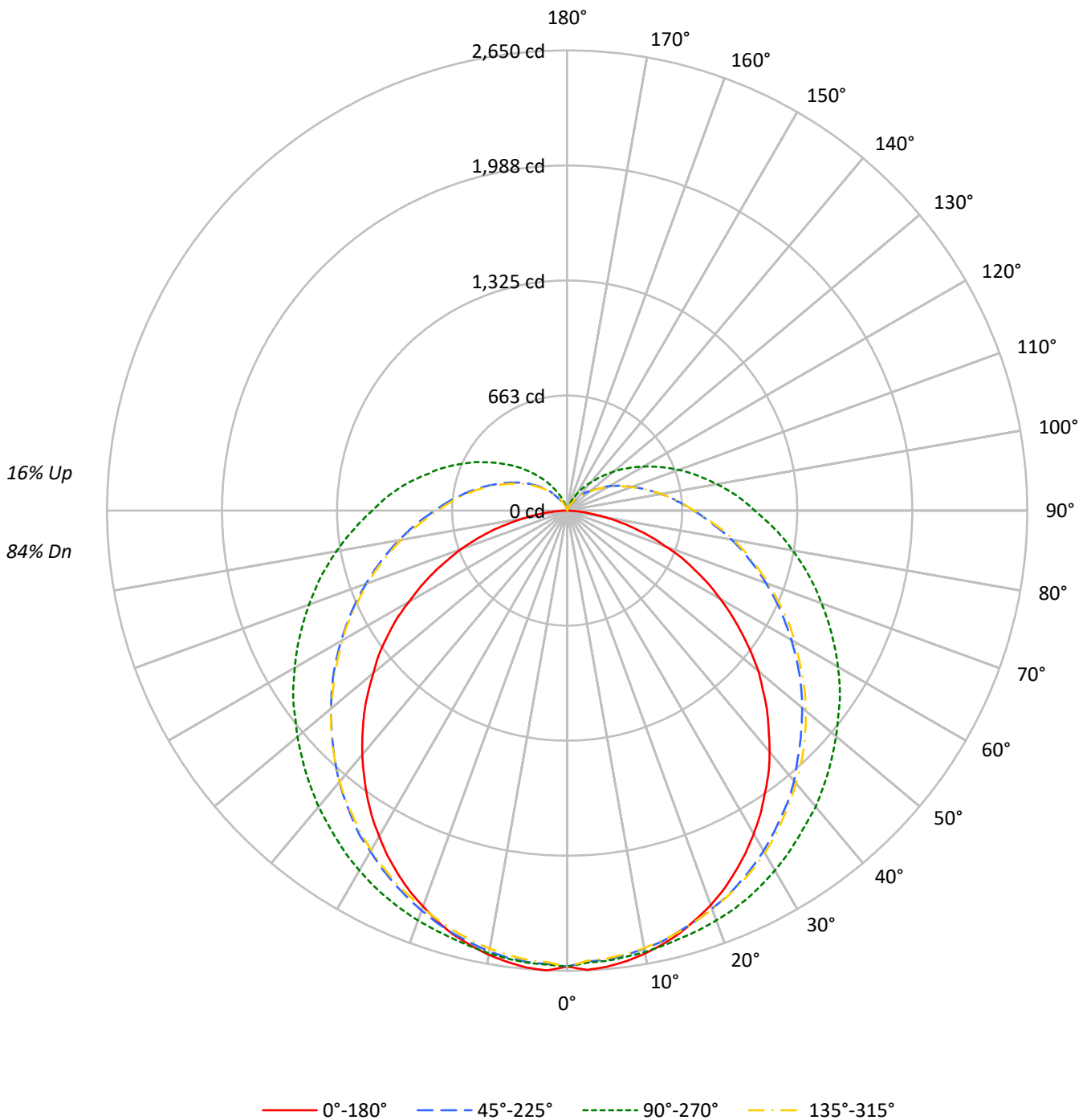
Lumens per Lamp: N/A  
Luminaire Lumens: 11407.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	10609	10609	10609	10609
5°	10679	10223	10702	10267
10°	10596	9933	10629	9965
15°	10487	9684	10533	9695
20°	10337	9503	10373	9503
25°	10150	9342	10211	9331
30°	9938	9176	10014	9176
35°	9689	9022	9797	9033
40°	9445	8932	9560	8932
45°	9162	8837	9302	8848
50°	8870	8781	8990	8805
55°	8454	8789	8721	8827
60°	8019	8816	8280	8870
65°	7533	8904	7866	8992
70°	6839	9068	7373	9197
75°	6046	9365	6619	9545
80°	4794	9804	5446	10031
85°	3048	10508	3812	10800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.7	2.2
10°-20°	714.8	6.3
20°-30°	1096.0	9.6
30°-40°	1352.1	11.9
40°-50°	1466.9	12.9
50°-60°	1445.8	12.7
60°-70°	1307.2	11.5
70°-80°	1089.0	9.5
80°-90°	843.5	7.4
90°-100°	639.7	5.6
100°-110°	473.4	4.2
110°-120°	329.3	2.9
120°-130°	210.1	1.8
130°-140°	117.9	1.0
140°-150°	53.8	0.5
150°-160°	16.7	0.1
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	2059.5	18.1
0°-40°	3411.6	29.9
0°-60°	6324.3	55.4
0°-90°	9564.0	83.8
90°-120°	1442.4	12.6
90°-150°	1824.2	16.0
90°-180°	1843.0	16.2
0°-180°	11407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2626	2626	2626	2626	2626	
5°	2637	2603	2642	2614	2637	250
15°	2518	2548	2529	2551	2518	709
25°	2293	2462	2307	2459	2293	1056
35°	1986	2310	2008	2313	1986	1244
45°	1628	2127	1653	2130	1628	1255
55°	1227	1916	1266	1925	1227	1098
65°	814	1681	850	1698	814	807
75°	410	1440	449	1468	410	434
85°	78	1199	97	1232	78	94
90°	3	1080	6	1122	3	4
95°	3	980	3	1028	3	2
105°	3	778	3	825	3	3
115°	3	593	3	645	3	3
125°	3	426	3	474	3	3
135°	3	277	3	327	3	2
145°	3	161	3	197	3	2
155°	3	66	3	91	3	1
165°	3	11	3	17	3	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2647.7	2647.7	2644.9	2639.4	2642.2	2650.5	2644.9	2631.1	2622.8	2600.6	2606.2
5°	2636.6	2636.6	2633.9	2628.3	2631.1	2642.2	2636.6	2625.6	2614.5	2595.1	2603.4
7.5°	2617.2	2617.2	2614.5	2608.9	2614.5	2625.6	2620.0	2608.9	2600.6	2581.2	2589.6
10°	2589.6	2592.3	2589.6	2581.2	2592.3	2603.4	2600.6	2586.8	2578.5	2561.9	2570.2
12.5°	2556.3	2559.1	2556.3	2553.5	2559.1	2575.7	2570.2	2559.1	2553.5	2539.7	2548.0
15°	2517.5	2520.3	2514.8	2514.8	2520.3	2536.9	2536.9	2525.9	2520.3	2506.5	2523.1
17.5°	2467.7	2470.5	2467.7	2467.7	2473.2	2489.8	2492.6	2487.1	2481.5	2476.0	2492.6
20°	2417.8	2415.1	2415.1	2412.3	2423.4	2448.3	2445.5	2445.5	2440.0	2440.0	2459.4
22.5°	2359.7	2359.7	2356.9	2356.9	2370.8	2392.9	2392.9	2398.5	2392.9	2404.0	2420.6
25°	2293.2	2296.0	2293.2	2298.7	2309.8	2334.8	2337.5	2345.8	2348.6	2359.7	2379.1
27.5°	2224.0	2226.7	2224.0	2229.5	2248.9	2268.3	2282.1	2293.2	2296.0	2312.6	2337.5
30°	2149.2	2149.2	2152.0	2157.5	2179.7	2210.1	2221.2	2235.0	2235.0	2262.7	2287.7
32.5°	2071.6	2071.6	2071.6	2082.7	2107.6	2143.7	2157.5	2174.1	2179.7	2207.4	2235.0
35°	1985.8	1988.6	1988.6	1996.9	2030.1	2066.1	2085.5	2104.9	2116.0	2149.2	2176.9
37.5°	1905.5	1911.0	1902.7	1913.8	1960.9	1991.3	2013.5	2032.9	2052.3	2096.6	2118.7
40°	1814.1	1819.6	1816.8	1839.0	1877.8	1916.5	1941.5	1960.9	1988.6	2032.9	2057.8
42.5°	1717.1	1722.7	1728.2	1753.1	1794.7	1833.5	1863.9	1888.8	1922.1	1960.9	2002.4
45°	1628.5	1628.5	1636.8	1667.3	1711.6	1753.1	1789.1	1816.8	1855.6	1897.2	1938.7
47.5°	1528.8	1531.6	1542.7	1578.7	1625.7	1675.6	1708.8	1744.8	1786.4	1830.7	1877.8
50°	1437.4	1437.4	1454.0	1492.8	1537.1	1592.5	1628.5	1670.1	1714.4	1767.0	1814.1
52.5°	1332.2	1337.7	1362.6	1398.6	1456.8	1506.6	1548.2	1592.5	1645.1	1700.5	1753.1
55°	1226.9	1238.0	1257.4	1307.2	1368.2	1415.3	1465.1	1520.5	1570.3	1631.3	1692.2
57.5°	1124.4	1132.8	1163.2	1213.1	1276.8	1334.9	1387.6	1440.2	1501.1	1562.0	1625.7
60°	1019.2	1030.3	1066.3	1116.1	1185.4	1246.3	1307.2	1362.6	1426.3	1490.0	1556.5
62.5°	919.5	927.8	969.4	1027.5	1096.8	1163.2	1224.2	1290.6	1359.9	1420.8	1487.3
65°	814.3	828.1	875.2	927.8	1008.1	1074.6	1143.8	1215.8	1287.9	1354.3	1418.0
67.5°	717.3	725.6	775.5	836.4	916.7	991.5	1063.5	1141.1	1215.8	1285.1	1348.8
70°	603.8	631.5	681.3	745.0	830.9	908.4	986.0	1066.3	1146.6	1218.6	1279.5
72.5°	509.6	531.8	587.1	656.4	739.5	830.9	911.2	997.0	1077.4	1152.1	1215.8
75°	409.9	432.1	495.8	573.3	659.2	756.1	839.2	927.8	1010.9	1085.7	1152.1
77.5°	313.0	340.7	409.9	490.2	584.4	684.1	769.9	858.6	944.4	1024.7	1091.2
80°	224.3	254.8	329.6	421.0	512.4	612.1	706.2	794.9	880.7	961.0	1030.3
82.5°	144.0	177.3	257.6	349.0	445.9	545.6	642.5	731.2	817.0	897.3	969.4
85°	77.5	113.6	196.6	288.0	385.0	484.7	581.6	675.8	758.9	833.6	911.2
87.5°	22.2	66.5	146.8	238.2	337.9	429.3	523.4	617.6	700.7	781.0	850.3
90°	2.8	38.8	110.8	196.6	293.6	382.2	476.4	565.0	648.1	728.4	797.6
92.5°	2.8	24.9	85.9	163.4	252.0	343.4	437.6	523.4	601.0	681.3	750.6
95°	2.8	19.4	69.2	138.5	221.6	307.4	396.0	479.1	559.5	634.2	703.5
97.5°	2.8	13.8	55.4	119.1	193.9	274.2	360.0	443.1	520.7	592.7	656.4
100°	2.8	11.1	44.3	102.5	168.9	246.5	324.0	404.4	479.1	548.4	614.8
102.5°	2.8	8.3	38.8	85.9	149.6	218.8	293.6	368.4	440.4	506.8	573.3
105°	2.8	8.3	33.2	74.8	132.9	196.6	265.9	337.9	404.4	468.1	529.0
107.5°	2.8	5.5	27.7	63.7	116.3	177.3	241.0	310.2	371.1	432.1	490.2
110°	2.8	5.5	22.2	58.2	102.5	157.9	218.8	282.5	340.7	398.8	454.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.8	5.5	19.4	49.9	88.6	141.2	196.6	254.8	310.2	368.4	418.2
115°	2.8	5.5	16.6	44.3	83.1	121.9	177.3	229.9	285.3	337.9	385.0
117.5°	2.8	5.5	13.8	36.0	72.0	110.8	155.1	207.7	257.6	307.4	351.7
120°	2.8	5.5	11.1	33.2	63.7	99.7	138.5	185.6	232.6	279.7	326.8
122.5°	2.8	2.8	11.1	27.7	55.4	88.6	127.4	163.4	207.7	252.0	293.6
125°	2.8	2.8	11.1	24.9	47.1	80.3	113.6	146.8	185.6	224.3	260.3
127.5°	2.8	2.8	8.3	19.4	41.5	69.2	99.7	135.7	163.4	199.4	235.4
130°	2.8	2.8	8.3	16.6	36.0	58.2	88.6	119.1	152.3	177.3	207.7
132.5°	2.8	2.8	8.3	13.8	27.7	47.1	74.8	102.5	132.9	160.6	185.6
135°	2.8	2.8	5.5	11.1	22.2	38.8	60.9	85.9	116.3	144.0	168.9
137.5°	2.8	2.8	5.5	11.1	16.6	33.2	47.1	69.2	96.9	121.9	146.8
140°	2.8	2.8	5.5	8.3	13.8	24.9	38.8	55.4	77.5	99.7	127.4
142.5°	2.8	2.8	2.8	8.3	11.1	19.4	30.5	44.3	60.9	80.3	102.5
145°	2.8	2.8	2.8	8.3	11.1	13.8	24.9	36.0	47.1	60.9	80.3
147.5°	2.8	2.8	2.8	5.5	8.3	11.1	19.4	27.7	36.0	47.1	58.2
150°	2.8	2.8	2.8	5.5	8.3	11.1	13.8	19.4	27.7	38.8	47.1
152.5°	2.8	2.8	2.8	5.5	5.5	8.3	11.1	13.8	19.4	27.7	33.2
155°	2.8	2.8	2.8	2.8	5.5	8.3	11.1	11.1	13.8	19.4	24.9
157.5°	2.8	2.8	2.8	2.8	5.5	5.5	8.3	8.3	11.1	11.1	16.6
160°	2.8	2.8	2.8	2.8	2.8	5.5	5.5	8.3	8.3	8.3	8.3
162.5°	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	5.5	8.3	8.3
165°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	5.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2606.2	2608.9	2617.2	2617.2	2611.7	2611.7	2608.9	2606.2	2608.9	2614.5	2614.5
5°	2600.6	2603.4	2611.7	2614.5	2608.9	2606.2	2606.2	2603.4	2606.2	2611.7	2611.7
7.5°	2589.6	2592.3	2600.6	2603.4	2597.9	2597.9	2595.1	2592.3	2597.9	2600.6	2600.6
10°	2572.9	2575.7	2586.8	2589.6	2586.8	2584.0	2584.0	2581.2	2584.0	2589.6	2589.6
12.5°	2550.8	2556.3	2570.2	2570.2	2570.2	2567.4	2567.4	2564.6	2567.4	2572.9	2570.2
15°	2525.9	2536.9	2548.0	2553.5	2553.5	2553.5	2550.8	2548.0	2553.5	2556.3	2553.5
17.5°	2498.2	2512.0	2528.6	2534.2	2534.2	2536.9	2534.2	2531.4	2536.9	2536.9	2534.2
20°	2470.5	2484.3	2500.9	2506.5	2512.0	2514.8	2514.8	2512.0	2514.8	2517.5	2514.8
22.5°	2434.5	2451.1	2470.5	2478.8	2484.3	2489.8	2489.8	2489.8	2492.6	2495.4	2489.8
25°	2395.7	2415.1	2437.2	2445.5	2456.6	2459.4	2462.2	2462.2	2464.9	2467.7	2459.4
27.5°	2354.1	2376.3	2398.5	2412.3	2420.6	2426.1	2426.1	2428.9	2431.7	2434.5	2426.1
30°	2304.3	2337.5	2356.9	2368.0	2379.1	2387.4	2390.1	2392.9	2395.7	2398.5	2390.1
32.5°	2260.0	2287.7	2312.6	2326.4	2340.3	2351.4	2354.1	2354.1	2359.7	2359.7	2351.4
35°	2207.4	2240.6	2265.5	2279.4	2296.0	2304.3	2309.8	2309.8	2315.4	2315.4	2307.1
37.5°	2154.7	2188.0	2215.7	2232.3	2251.7	2262.7	2265.5	2265.5	2271.1	2271.1	2260.0
40°	2099.3	2135.3	2165.8	2185.2	2201.8	2215.7	2218.4	2226.7	2226.7	2224.0	2212.9
42.5°	2043.9	2077.2	2110.4	2132.6	2154.7	2168.6	2174.1	2176.9	2176.9	2174.1	2165.8
45°	1983.0	2021.8	2052.3	2080.0	2102.1	2116.0	2124.3	2127.0	2127.0	2121.5	2113.2
47.5°	1924.9	1963.6	1994.1	2024.6	2046.7	2063.3	2071.6	2074.4	2071.6	2068.9	2060.6
50°	1863.9	1908.2	1938.7	1969.2	1991.3	2005.2	2019.0	2021.8	2019.0	2016.3	1999.6
52.5°	1800.2	1847.3	1880.5	1911.0	1935.9	1952.6	1963.6	1966.4	1966.4	1960.9	1949.8
55°	1736.5	1778.1	1819.6	1852.8	1880.5	1897.2	1911.0	1916.5	1911.0	1905.5	1891.6
57.5°	1678.4	1717.1	1758.7	1794.7	1822.4	1844.5	1855.6	1861.2	1855.6	1847.3	1833.5
60°	1609.1	1650.7	1697.7	1731.0	1761.4	1783.6	1789.1	1800.2	1794.7	1786.4	1772.5
62.5°	1542.7	1592.5	1634.0	1675.6	1700.5	1725.4	1736.5	1742.1	1736.5	1728.2	1714.4
65°	1473.4	1528.8	1570.3	1611.9	1639.6	1664.5	1678.4	1681.1	1675.6	1667.3	1653.4
67.5°	1409.7	1462.3	1506.6	1551.0	1575.9	1600.8	1614.7	1620.2	1614.7	1603.6	1589.7
70°	1346.0	1398.6	1451.3	1484.5	1515.0	1542.7	1551.0	1559.3	1553.7	1542.7	1526.0
72.5°	1282.3	1337.7	1390.3	1423.6	1456.8	1481.7	1492.8	1501.1	1495.6	1484.5	1465.1
75°	1215.8	1274.0	1326.6	1362.6	1395.9	1420.8	1431.9	1440.2	1434.6	1423.6	1401.4
77.5°	1154.9	1213.1	1262.9	1301.7	1334.9	1357.1	1376.5	1379.2	1373.7	1362.6	1340.5
80°	1091.2	1149.4	1202.0	1240.8	1274.0	1296.2	1310.0	1318.3	1312.8	1301.7	1279.5
82.5°	1035.8	1088.4	1141.1	1179.8	1213.1	1240.8	1251.8	1260.2	1257.4	1240.8	1224.2
85°	974.9	1035.8	1077.4	1118.9	1152.1	1179.8	1188.1	1199.2	1196.5	1182.6	1160.5
87.5°	914.0	974.9	1024.7	1066.3	1096.8	1118.9	1132.8	1138.3	1135.5	1121.7	1096.8
90°	864.1	919.5	969.4	1013.7	1038.6	1063.5	1077.4	1080.1	1080.1	1063.5	1044.1
92.5°	817.0	869.6	919.5	961.0	991.5	1013.7	1024.7	1030.3	1027.5	1013.7	991.5
95°	764.4	822.6	869.6	911.2	941.7	963.8	974.9	980.4	977.7	963.8	941.7
97.5°	720.1	772.7	819.8	858.6	889.0	911.2	922.3	927.8	927.8	914.0	891.8
100°	675.8	728.4	772.7	811.5	839.2	861.3	872.4	875.2	872.4	861.3	839.2
102.5°	631.5	681.3	725.6	761.6	792.1	811.5	822.6	825.3	825.3	811.5	789.3
105°	587.1	637.0	678.5	717.3	742.2	761.6	769.9	778.3	775.5	764.4	742.2
107.5°	545.6	595.5	634.2	670.2	695.2	714.6	722.9	731.2	728.4	717.3	695.2
110°	506.8	553.9	589.9	625.9	648.1	667.5	681.3	684.1	678.5	667.5	648.1





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	470.8	512.4	548.4	581.6	606.5	620.4	631.5	637.0	631.5	620.4	606.5
115°	432.1	473.6	509.6	540.1	562.2	578.8	587.1	592.7	587.1	576.1	562.2
117.5°	396.0	434.8	470.8	501.3	520.7	534.5	542.8	548.4	542.8	534.5	520.7
120°	365.6	398.8	432.1	459.7	481.9	493.0	501.3	506.8	504.1	493.0	479.1
122.5°	329.6	365.6	396.0	423.7	443.1	454.2	459.7	465.3	462.5	454.2	440.4
125°	299.1	329.6	360.0	385.0	404.4	415.4	421.0	426.5	423.7	415.4	398.8
127.5°	265.9	299.1	324.0	349.0	362.8	379.4	382.2	387.7	385.0	376.7	362.8
130°	241.0	265.9	290.8	313.0	329.6	340.7	346.2	349.0	343.4	337.9	324.0
132.5°	210.5	238.2	260.3	279.7	290.8	301.9	307.4	310.2	310.2	301.9	290.8
135°	188.3	207.7	227.1	246.5	257.6	268.6	274.2	277.0	274.2	268.6	257.6
137.5°	168.9	185.6	199.4	216.0	229.9	235.4	241.0	241.0	238.2	235.4	227.1
140°	146.8	166.2	180.0	191.1	202.2	204.9	210.5	210.5	207.7	204.9	199.4
142.5°	124.6	141.2	155.1	168.9	177.3	182.8	185.6	188.3	185.6	182.8	174.5
145°	99.7	119.1	132.9	141.2	152.3	155.1	157.9	160.6	157.9	155.1	146.8
147.5°	77.5	94.2	108.0	119.1	127.4	130.2	132.9	135.7	132.9	127.4	124.6
150°	55.4	69.2	85.9	96.9	102.5	108.0	108.0	108.0	110.8	105.2	99.7
152.5°	44.3	49.9	60.9	72.0	80.3	83.1	85.9	85.9	83.1	83.1	77.5
155°	30.5	36.0	44.3	52.6	60.9	63.7	66.5	66.5	63.7	63.7	60.9
157.5°	19.4	24.9	30.5	36.0	44.3	47.1	49.9	49.9	49.9	47.1	44.3
160°	11.1	13.8	16.6	22.2	27.7	30.5	33.2	33.2	33.2	33.2	30.5
162.5°	8.3	8.3	8.3	11.1	13.8	16.6	19.4	19.4	19.4	19.4	16.6
165°	5.5	5.5	5.5	5.5	5.5	8.3	11.1	11.1	11.1	11.1	11.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2611.7	2611.7	2614.5	2608.9	2592.3	2595.1	2595.1	2606.2	2611.7	2614.5	2628.3
5°	2606.2	2606.2	2611.7	2603.4	2589.6	2589.6	2589.6	2600.6	2603.4	2608.9	2620.0
7.5°	2597.9	2597.9	2600.6	2592.3	2575.7	2575.7	2572.9	2584.0	2589.6	2592.3	2603.4
10°	2584.0	2584.0	2586.8	2578.5	2559.1	2559.1	2556.3	2564.6	2567.4	2572.9	2581.2
12.5°	2564.6	2564.6	2564.6	2556.3	2536.9	2534.2	2531.4	2539.7	2539.7	2542.5	2550.8
15°	2548.0	2542.5	2542.5	2534.2	2514.8	2509.2	2503.7	2506.5	2512.0	2509.2	2514.8
17.5°	2528.6	2523.1	2517.5	2509.2	2484.3	2476.0	2470.5	2473.2	2470.5	2467.7	2473.2
20°	2506.5	2498.2	2495.4	2481.5	2456.6	2442.8	2431.7	2426.1	2428.9	2420.6	2423.4
22.5°	2481.5	2470.5	2464.9	2448.3	2423.4	2406.8	2392.9	2381.8	2379.1	2368.0	2370.8
25°	2451.1	2437.2	2428.9	2415.1	2387.4	2368.0	2351.4	2334.8	2326.4	2312.6	2309.8
27.5°	2415.1	2401.2	2390.1	2376.3	2348.6	2323.7	2304.3	2282.1	2271.1	2254.4	2246.1
30°	2379.1	2362.4	2345.8	2334.8	2304.3	2276.6	2246.1	2226.7	2210.1	2190.7	2176.9
32.5°	2334.8	2318.1	2301.5	2284.9	2257.2	2224.0	2199.0	2168.6	2149.2	2127.0	2110.4
35°	2290.4	2268.3	2251.7	2229.5	2204.6	2165.8	2135.3	2104.9	2080.0	2055.0	2035.6
37.5°	2240.6	2224.0	2199.0	2179.7	2149.2	2110.4	2077.2	2038.4	2016.3	1983.0	1958.1
40°	2193.5	2174.1	2149.2	2124.3	2093.8	2049.5	2013.5	1969.2	1944.2	1905.5	1880.5
42.5°	2146.4	2118.7	2093.8	2066.1	2032.9	1991.3	1947.0	1902.7	1869.5	1833.5	1797.5
45°	2093.8	2063.3	2032.9	2002.4	1969.2	1927.6	1880.5	1833.5	1791.9	1758.7	1714.4
47.5°	2038.4	2007.9	1971.9	1938.7	1902.7	1861.2	1811.3	1761.4	1717.1	1678.4	1631.3
50°	1983.0	1952.6	1913.8	1877.8	1836.2	1794.7	1742.1	1683.9	1636.8	1587.0	1545.4
52.5°	1924.9	1894.4	1858.4	1811.3	1767.0	1725.4	1670.1	1609.1	1556.5	1515.0	1462.3
55°	1866.7	1836.2	1794.7	1747.6	1703.3	1650.7	1598.0	1537.1	1479.0	1429.1	1376.5
57.5°	1805.8	1778.1	1731.0	1692.2	1636.8	1581.4	1526.0	1467.9	1404.2	1346.0	1285.1
60°	1744.8	1714.4	1670.1	1623.0	1567.6	1512.2	1454.0	1390.3	1323.9	1260.2	1204.8
62.5°	1689.4	1650.7	1609.1	1559.3	1501.1	1448.5	1382.0	1312.8	1246.3	1179.8	1113.4
65°	1625.7	1584.2	1545.4	1495.6	1434.6	1373.7	1307.2	1238.0	1166.0	1094.0	1027.5
67.5°	1562.0	1520.5	1479.0	1429.1	1365.4	1301.7	1232.5	1163.2	1082.9	1013.7	936.1
70°	1498.3	1465.1	1412.5	1359.9	1301.7	1232.5	1163.2	1088.4	1005.4	930.6	850.3
72.5°	1434.6	1401.4	1348.8	1293.4	1238.0	1166.0	1091.2	1016.4	938.9	853.0	767.2
75°	1373.7	1332.2	1285.1	1232.5	1174.3	1099.5	1024.7	947.2	855.8	775.5	686.9
77.5°	1315.5	1276.8	1229.7	1171.5	1107.8	1035.8	958.3	878.0	786.6	700.7	603.8
80°	1251.8	1213.1	1166.0	1107.8	1044.1	974.9	891.8	808.7	720.1	625.9	526.2
82.5°	1190.9	1154.9	1102.3	1049.7	980.4	911.2	828.1	745.0	650.9	559.5	462.5
85°	1127.2	1091.2	1041.4	986.0	919.5	844.7	767.2	684.1	589.9	495.8	398.8
87.5°	1071.8	1030.3	980.4	925.0	858.6	786.6	711.8	623.2	531.8	440.4	340.7
90°	1013.7	974.9	925.0	869.6	803.2	731.2	653.6	570.5	481.9	387.7	293.6
92.5°	963.8	922.3	875.2	819.8	753.3	684.1	606.5	523.4	437.6	346.2	254.8
95°	914.0	872.4	828.1	772.7	706.2	637.0	559.5	479.1	396.0	307.4	221.6
97.5°	858.6	822.6	778.3	725.6	659.2	592.7	517.9	440.4	360.0	274.2	193.9
100°	814.3	772.7	731.2	675.8	614.8	551.1	476.4	401.6	324.0	243.7	168.9
102.5°	764.4	725.6	684.1	631.5	570.5	506.8	437.6	365.6	293.6	218.8	146.8
105°	717.3	681.3	637.0	587.1	529.0	468.1	401.6	335.1	265.9	193.9	130.2
107.5°	670.2	634.2	592.7	545.6	490.2	429.3	368.4	301.9	238.2	174.5	116.3
110°	623.2	589.9	551.1	504.1	451.4	396.0	337.9	277.0	213.3	155.1	102.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	581.6	548.4	509.6	465.3	415.4	362.8	307.4	249.3	191.1	138.5	88.6
115°	540.1	509.6	470.8	432.1	382.2	332.3	279.7	224.3	171.7	124.6	77.5
117.5°	498.5	468.1	432.1	393.3	349.0	301.9	252.0	199.4	155.1	110.8	69.2
120°	457.0	429.3	396.0	360.0	321.3	274.2	224.3	180.0	138.5	96.9	60.9
122.5°	418.2	393.3	362.8	329.6	288.0	243.7	202.2	163.4	124.6	85.9	49.9
125°	382.2	357.3	329.6	296.3	257.6	218.8	182.8	146.8	108.0	74.8	41.5
127.5°	346.2	321.3	293.6	263.1	232.6	196.6	163.4	130.2	96.9	66.5	36.0
130°	310.2	288.0	263.1	238.2	207.7	174.5	146.8	113.6	83.1	52.6	30.5
132.5°	274.2	257.6	235.4	210.5	182.8	157.9	127.4	99.7	72.0	47.1	27.7
135°	243.7	227.1	207.7	185.6	163.4	138.5	110.8	85.9	60.9	38.8	22.2
137.5°	216.0	202.2	182.8	163.4	144.0	119.1	96.9	72.0	49.9	33.2	16.6
140°	191.1	177.3	160.6	141.2	124.6	102.5	80.3	58.2	44.3	27.7	13.8
142.5°	166.2	152.3	138.5	121.9	105.2	85.9	66.5	49.9	36.0	22.2	13.8
145°	141.2	130.2	116.3	102.5	85.9	69.2	55.4	41.5	27.7	16.6	11.1
147.5°	116.3	108.0	94.2	83.1	69.2	55.4	44.3	33.2	22.2	13.8	8.3
150°	94.2	85.9	74.8	63.7	55.4	44.3	36.0	24.9	16.6	13.8	8.3
152.5°	72.0	66.5	58.2	52.6	44.3	33.2	24.9	19.4	13.8	11.1	5.5
155°	58.2	52.6	47.1	38.8	33.2	24.9	19.4	13.8	11.1	8.3	5.5
157.5°	41.5	38.8	33.2	27.7	22.2	16.6	13.8	13.8	8.3	5.5	2.8
160°	27.7	24.9	22.2	16.6	13.8	13.8	11.1	8.3	5.5	5.5	2.8
162.5°	16.6	13.8	13.8	13.8	11.1	11.1	8.3	5.5	5.5	2.8	2.8
165°	11.1	11.1	11.1	8.3	8.3	8.3	5.5	2.8	2.8	2.8	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2628.3	2620.0	2631.1	2650.5	2653.3	2650.5	2644.9	2653.3	2664.3	2661.6	2642.2
5°	2622.8	2611.7	2622.8	2642.2	2642.2	2639.4	2636.6	2644.9	2656.0	2653.3	2636.6
7.5°	2606.2	2595.1	2606.2	2622.8	2625.6	2620.0	2620.0	2628.3	2639.4	2636.6	2622.8
10°	2584.0	2572.9	2578.5	2597.9	2603.4	2597.9	2597.9	2606.2	2620.0	2617.2	2600.6
12.5°	2550.8	2542.5	2548.0	2564.6	2570.2	2567.4	2564.6	2575.7	2589.6	2589.6	2572.9
15°	2514.8	2503.7	2509.2	2528.6	2531.4	2525.9	2528.6	2536.9	2553.5	2553.5	2539.7
17.5°	2473.2	2459.4	2467.7	2481.5	2484.3	2484.3	2484.3	2495.4	2514.8	2512.0	2500.9
20°	2426.1	2406.8	2412.3	2426.1	2431.7	2431.7	2431.7	2451.1	2464.9	2464.9	2453.8
22.5°	2370.8	2356.9	2356.9	2370.8	2379.1	2376.3	2376.3	2392.9	2412.3	2409.5	2409.5
25°	2307.1	2296.0	2290.4	2307.1	2309.8	2312.6	2318.1	2334.8	2356.9	2356.9	2359.7
27.5°	2240.6	2229.5	2226.7	2240.6	2243.4	2246.1	2251.7	2271.1	2293.2	2296.0	2301.5
30°	2176.9	2160.3	2154.7	2165.8	2171.3	2174.1	2174.1	2204.6	2224.0	2232.3	2243.4
32.5°	2102.1	2085.5	2071.6	2091.0	2093.8	2099.3	2102.1	2132.6	2154.7	2168.6	2185.2
35°	2027.3	1999.6	1994.1	2007.9	2013.5	2016.3	2021.8	2055.0	2085.5	2096.6	2118.7
37.5°	1944.2	1924.9	1908.2	1922.1	1927.6	1930.4	1947.0	1977.5	2007.9	2024.6	2046.7
40°	1866.7	1841.8	1827.9	1836.2	1841.8	1844.5	1863.9	1897.2	1933.2	1952.6	1980.2
42.5°	1780.8	1747.6	1736.5	1744.8	1747.6	1755.9	1772.5	1816.8	1852.8	1880.5	1902.7
45°	1695.0	1670.1	1645.1	1653.4	1656.2	1661.7	1686.7	1733.8	1772.5	1805.8	1830.7
47.5°	1606.4	1575.9	1551.0	1556.5	1567.6	1570.3	1598.0	1653.4	1689.4	1725.4	1758.7
50°	1517.7	1476.2	1456.8	1456.8	1462.3	1476.2	1512.2	1567.6	1606.4	1647.9	1683.9
52.5°	1426.3	1387.6	1365.4	1368.2	1373.7	1390.3	1423.6	1479.0	1523.3	1567.6	1611.9
55°	1334.9	1293.4	1271.2	1265.7	1271.2	1293.4	1332.2	1390.3	1434.6	1487.3	1534.3
57.5°	1243.5	1193.7	1174.3	1166.0	1171.5	1199.2	1238.0	1298.9	1354.3	1404.2	1459.6
60°	1143.8	1105.1	1071.8	1052.4	1066.3	1102.3	1143.8	1207.5	1265.7	1321.1	1382.0
62.5°	1058.0	1008.1	972.1	952.7	966.6	997.0	1055.2	1116.1	1179.8	1243.5	1304.5
65°	961.0	911.2	869.6	850.3	864.1	900.1	958.3	1024.7	1094.0	1157.7	1229.7
67.5°	866.9	814.3	764.4	745.0	761.6	800.4	864.1	938.9	1013.7	1080.1	1157.7
70°	775.5	717.3	664.7	650.9	661.9	714.6	775.5	850.3	927.8	1005.4	1085.7
72.5°	692.4	620.4	565.0	548.4	562.2	620.4	689.6	767.2	850.3	933.3	1019.2
75°	595.5	529.0	468.1	448.7	465.3	517.9	603.8	686.9	775.5	864.1	944.4
77.5°	517.9	440.4	376.7	346.2	373.9	440.4	523.4	612.1	703.5	794.9	886.3
80°	437.6	357.3	288.0	254.8	285.3	357.3	440.4	537.3	639.8	731.2	814.3
82.5°	365.6	279.7	207.7	171.7	204.9	285.3	376.7	473.6	573.3	664.7	761.6
85°	299.1	210.5	135.7	96.9	144.0	216.0	313.0	412.7	515.1	609.3	703.5
87.5°	243.7	157.9	83.1	41.5	88.6	168.9	260.3	360.0	462.5	556.7	645.3
90°	199.4	113.6	44.3	5.5	52.6	127.4	216.0	313.0	409.9	506.8	595.5
92.5°	163.4	85.9	24.9	2.8	33.2	102.5	185.6	277.0	371.1	465.3	551.1
95°	135.7	66.5	16.6	2.8	24.9	80.3	157.9	246.5	335.1	426.5	512.4
97.5°	116.3	55.4	13.8	2.8	19.4	69.2	135.7	218.8	304.7	390.5	473.6
100°	99.7	44.3	11.1	2.8	16.6	58.2	119.1	193.9	274.2	357.3	437.6
102.5°	85.9	36.0	8.3	2.8	13.8	49.9	105.2	174.5	246.5	326.8	404.4
105°	74.8	30.5	8.3	2.8	11.1	44.3	94.2	155.1	227.1	299.1	373.9
107.5°	63.7	24.9	5.5	2.8	8.3	36.0	83.1	141.2	204.9	274.2	343.4
110°	55.4	22.2	5.5	2.8	8.3	33.2	72.0	127.4	185.6	249.3	315.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	47.1	16.6	5.5	2.8	5.5	27.7	63.7	113.6	168.9	227.1	290.8
115°	41.5	13.8	2.8	2.8	5.5	24.9	58.2	102.5	152.3	207.7	265.9
117.5°	33.2	11.1	2.8	2.8	2.8	19.4	49.9	91.4	138.5	191.1	243.7
120°	27.7	11.1	2.8	2.8	2.8	16.6	44.3	80.3	124.6	171.7	221.6
122.5°	24.9	8.3	2.8	2.8	2.8	13.8	38.8	72.0	110.8	155.1	202.2
125°	22.2	8.3	2.8	2.8	2.8	11.1	33.2	63.7	99.7	138.5	182.8
127.5°	16.6	8.3	2.8	2.8	2.8	8.3	30.5	55.4	88.6	124.6	163.4
130°	13.8	5.5	2.8	2.8	2.8	8.3	24.9	49.9	77.5	110.8	146.8
132.5°	11.1	5.5	2.8	2.8	2.8	5.5	19.4	38.8	66.5	96.9	130.2
135°	11.1	5.5	2.8	2.8	2.8	5.5	13.8	33.2	55.4	83.1	110.8
137.5°	11.1	2.8	2.8	2.8	2.8	5.5	11.1	24.9	44.3	66.5	91.4
140°	8.3	2.8	2.8	2.8	2.8	2.8	8.3	19.4	36.0	55.4	77.5
142.5°	8.3	2.8	2.8	2.8	2.8	2.8	8.3	13.8	27.7	44.3	60.9
145°	5.5	2.8	2.8	2.8	2.8	2.8	5.5	11.1	22.2	33.2	49.9
147.5°	5.5	2.8	2.8	2.8	2.8	2.8	5.5	8.3	16.6	27.7	38.8
150°	5.5	2.8	2.8	2.8	2.8	2.8	5.5	8.3	11.1	19.4	30.5
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	8.3	13.8	19.4
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	8.3	11.1	13.8
157.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	8.3	11.1
160°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	8.3
162.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5
165°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2633.9	2614.5	2620.0	2617.2	2622.8	2631.1	2631.1	2628.3	2628.3	2622.8	2617.2
5°	2628.3	2608.9	2617.2	2614.5	2620.0	2628.3	2628.3	2625.6	2625.6	2617.2	2614.5
7.5°	2611.7	2597.9	2603.4	2603.4	2608.9	2617.2	2617.2	2614.5	2614.5	2606.2	2603.4
10°	2595.1	2578.5	2586.8	2586.8	2592.3	2603.4	2603.4	2600.6	2600.6	2592.3	2589.6
12.5°	2567.4	2550.8	2564.6	2567.4	2572.9	2584.0	2581.2	2581.2	2581.2	2572.9	2570.2
15°	2534.2	2523.1	2536.9	2539.7	2548.0	2561.9	2561.9	2561.9	2561.9	2553.5	2550.8
17.5°	2498.2	2489.8	2503.7	2509.2	2520.3	2534.2	2534.2	2536.9	2539.7	2534.2	2531.4
20°	2456.6	2451.1	2464.9	2476.0	2492.6	2506.5	2512.0	2514.8	2520.3	2514.8	2512.0
22.5°	2409.5	2409.5	2428.9	2440.0	2459.4	2473.2	2481.5	2489.8	2495.4	2489.8	2487.1
25°	2356.9	2365.2	2384.6	2404.0	2426.1	2440.0	2448.3	2459.4	2464.9	2462.2	2459.4
27.5°	2307.1	2318.1	2343.1	2362.4	2381.8	2404.0	2412.3	2426.1	2431.7	2431.7	2428.9
30°	2248.9	2265.5	2293.2	2315.4	2340.3	2362.4	2373.5	2387.4	2395.7	2390.1	2392.9
32.5°	2193.5	2221.2	2243.4	2268.3	2296.0	2318.1	2332.0	2348.6	2356.9	2354.1	2356.9
35°	2132.6	2160.3	2190.7	2215.7	2248.9	2271.1	2290.4	2304.3	2315.4	2312.6	2312.6
37.5°	2066.1	2102.1	2132.6	2165.8	2196.3	2221.2	2240.6	2257.2	2268.3	2268.3	2268.3
40°	2002.4	2041.2	2071.6	2110.4	2149.2	2171.3	2193.5	2210.1	2221.2	2224.0	2226.7
42.5°	1933.2	1974.7	2010.7	2052.3	2091.0	2118.7	2143.7	2163.0	2174.1	2179.7	2176.9
45°	1869.5	1908.2	1949.8	1996.9	2032.9	2060.6	2091.0	2113.2	2124.3	2127.0	2129.8
47.5°	1797.5	1841.8	1888.8	1935.9	1971.9	2007.9	2035.6	2057.8	2068.9	2077.2	2077.2
50°	1728.2	1775.3	1827.9	1877.8	1916.5	1952.6	1980.2	2005.2	2019.0	2024.6	2027.3
52.5°	1664.5	1708.8	1764.2	1814.1	1852.8	1888.8	1924.9	1952.6	1966.4	1971.9	1971.9
55°	1587.0	1642.4	1703.3	1750.4	1791.9	1833.5	1869.5	1897.2	1911.0	1919.3	1924.9
57.5°	1515.0	1573.1	1636.8	1686.7	1736.5	1775.3	1808.5	1844.5	1855.6	1866.7	1869.5
60°	1445.7	1503.9	1564.8	1620.2	1670.1	1711.6	1750.4	1780.8	1800.2	1805.8	1811.3
62.5°	1373.7	1434.6	1498.3	1553.7	1606.4	1656.2	1692.2	1719.9	1742.1	1750.4	1755.9
65°	1304.5	1368.2	1431.9	1490.0	1545.4	1595.3	1631.3	1659.0	1681.1	1695.0	1697.7
67.5°	1229.7	1298.9	1365.4	1426.3	1481.7	1534.3	1570.3	1598.0	1620.2	1636.8	1639.6
70°	1160.5	1232.5	1298.9	1365.4	1420.8	1473.4	1512.2	1539.9	1564.8	1575.9	1581.4
72.5°	1094.0	1168.8	1238.0	1304.5	1359.9	1412.5	1454.0	1481.7	1506.6	1520.5	1523.3
75°	1030.3	1105.1	1179.8	1243.5	1301.7	1354.3	1395.9	1426.3	1448.5	1462.3	1467.9
77.5°	966.6	1044.1	1118.9	1182.6	1243.5	1296.2	1332.2	1368.2	1390.3	1406.9	1406.9
80°	902.9	983.2	1060.7	1124.4	1185.4	1232.5	1274.0	1310.0	1332.2	1348.8	1348.8
82.5°	847.5	925.0	999.8	1063.5	1124.4	1177.1	1218.6	1251.8	1276.8	1287.9	1290.6
85°	783.8	869.6	938.9	1008.1	1066.3	1116.1	1157.7	1193.7	1215.8	1226.9	1232.5
87.5°	731.2	814.3	889.0	950.0	1008.1	1058.0	1105.1	1135.5	1157.7	1171.5	1177.1
90°	681.3	761.6	836.4	897.3	958.3	1005.4	1049.7	1080.1	1105.1	1116.1	1121.7
92.5°	637.0	717.3	789.3	850.3	908.4	961.0	1002.6	1033.1	1055.2	1066.3	1074.6
95°	595.5	673.0	742.2	808.7	864.1	911.2	955.5	986.0	1010.9	1019.2	1027.5
97.5°	553.9	628.7	697.9	761.6	819.8	864.1	905.7	936.1	955.5	969.4	977.7
100°	517.9	589.9	656.4	717.3	772.7	814.3	858.6	886.3	905.7	916.7	927.8
102.5°	479.1	551.1	614.8	673.0	731.2	769.9	811.5	839.2	855.8	875.2	875.2
105°	445.9	512.4	576.1	631.5	681.3	728.4	764.4	792.1	811.5	825.3	825.3
107.5°	409.9	476.4	537.3	595.5	642.5	686.9	720.1	745.0	767.2	775.5	783.8
110°	382.2	440.4	501.3	556.7	601.0	642.5	675.8	703.5	722.9	731.2	736.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	349.0	409.9	465.3	517.9	562.2	601.0	634.2	656.4	675.8	686.9	689.6
115°	321.3	379.4	429.3	479.1	526.2	559.5	589.9	612.1	631.5	639.8	645.3
117.5°	296.3	349.0	398.8	440.4	484.7	520.7	551.1	570.5	587.1	598.2	603.8
120°	271.4	321.3	365.6	407.1	448.7	481.9	509.6	529.0	548.4	556.7	556.7
122.5°	246.5	293.6	335.1	373.9	412.7	443.1	473.6	490.2	506.8	515.1	515.1
125°	224.3	268.6	307.4	343.4	379.4	407.1	432.1	451.4	468.1	473.6	473.6
127.5°	202.2	243.7	279.7	313.0	343.4	371.1	396.0	415.4	429.3	434.8	434.8
130°	182.8	218.8	252.0	285.3	315.7	337.9	362.8	379.4	387.7	396.0	398.8
132.5°	163.4	196.6	227.1	254.8	285.3	307.4	326.8	343.4	351.7	360.0	362.8
135°	144.0	174.5	202.2	229.9	254.8	277.0	293.6	307.4	318.5	324.0	326.8
137.5°	121.9	155.1	180.0	202.2	229.9	246.5	265.9	274.2	285.3	290.8	290.8
140°	102.5	127.4	155.1	177.3	199.4	216.0	232.6	246.5	254.8	257.6	257.6
142.5°	83.1	105.2	127.4	155.1	174.5	188.3	204.9	216.0	221.6	224.3	227.1
145°	66.5	83.1	102.5	127.4	149.6	166.2	174.5	185.6	191.1	193.9	196.6
147.5°	49.9	66.5	83.1	99.7	121.9	138.5	146.8	157.9	163.4	166.2	166.2
150°	38.8	49.9	60.9	77.5	94.2	113.6	124.6	132.9	135.7	138.5	138.5
152.5°	27.7	38.8	47.1	58.2	69.2	85.9	102.5	108.0	110.8	113.6	113.6
155°	19.4	27.7	33.2	41.5	49.9	63.7	77.5	85.9	88.6	91.4	91.4
157.5°	13.8	19.4	22.2	30.5	36.0	41.5	52.6	66.5	69.2	69.2	69.2
160°	8.3	11.1	13.8	19.4	22.2	27.7	33.2	41.5	49.9	49.9	49.9
162.5°	5.5	8.3	8.3	11.1	11.1	16.6	19.4	22.2	30.5	33.2	33.2
165°	2.8	5.5	5.5	5.5	5.5	5.5	8.3	8.3	13.8	16.6	16.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2620.0	2625.6	2622.8	2622.8	2622.8	2628.3	2622.8	2597.9	2603.4	2608.9	2614.5
5°	2617.2	2620.0	2620.0	2617.2	2617.2	2622.8	2617.2	2592.3	2597.9	2603.4	2606.2
7.5°	2606.2	2608.9	2608.9	2608.9	2606.2	2611.7	2603.4	2581.2	2581.2	2586.8	2589.6
10°	2592.3	2597.9	2595.1	2592.3	2592.3	2592.3	2586.8	2561.9	2561.9	2564.6	2567.4
12.5°	2575.7	2575.7	2575.7	2572.9	2570.2	2570.2	2564.6	2539.7	2536.9	2542.5	2539.7
15°	2553.5	2559.1	2553.5	2550.8	2545.2	2545.2	2536.9	2512.0	2506.5	2509.2	2506.5
17.5°	2534.2	2536.9	2531.4	2525.9	2520.3	2517.5	2509.2	2481.5	2473.2	2476.0	2470.5
20°	2514.8	2514.8	2509.2	2503.7	2495.4	2487.1	2476.0	2448.3	2434.5	2434.5	2423.4
22.5°	2489.8	2489.8	2484.3	2476.0	2467.7	2456.6	2445.5	2417.8	2395.7	2390.1	2381.8
25°	2462.2	2459.4	2456.6	2448.3	2431.7	2420.6	2409.5	2379.1	2354.1	2343.1	2329.2
27.5°	2428.9	2428.9	2420.6	2412.3	2395.7	2381.8	2368.0	2340.3	2307.1	2293.2	2273.8
30°	2392.9	2392.9	2384.6	2373.5	2356.9	2340.3	2323.7	2290.4	2257.2	2237.8	2215.7
32.5°	2356.9	2354.1	2345.8	2334.8	2318.1	2293.2	2279.4	2246.1	2207.4	2185.2	2154.7
35°	2312.6	2309.8	2301.5	2287.7	2265.5	2246.1	2224.0	2193.5	2149.2	2121.5	2088.3
37.5°	2268.3	2265.5	2260.0	2240.6	2218.4	2196.3	2168.6	2138.1	2096.6	2060.6	2027.3
40°	2224.0	2221.2	2210.1	2196.3	2168.6	2140.9	2113.2	2082.7	2038.4	1996.9	1960.9
42.5°	2176.9	2174.1	2160.3	2143.7	2113.2	2085.5	2052.3	2019.0	1974.7	1924.9	1888.8
45°	2129.8	2124.3	2110.4	2091.0	2057.8	2027.3	1994.1	1955.3	1911.0	1863.9	1816.8
47.5°	2080.0	2071.6	2057.8	2030.1	2002.4	1969.2	1930.4	1888.8	1844.5	1791.9	1742.1
50°	2024.6	2019.0	2002.4	1977.5	1944.2	1911.0	1866.7	1825.1	1772.5	1722.7	1661.7
52.5°	1971.9	1960.9	1947.0	1919.3	1886.1	1850.1	1803.0	1753.1	1700.5	1653.4	1589.7
55°	1916.5	1911.0	1891.6	1869.5	1827.9	1786.4	1742.1	1689.4	1631.3	1575.9	1515.0
57.5°	1863.9	1852.8	1836.2	1805.8	1769.8	1728.2	1681.1	1625.7	1562.0	1503.9	1437.4
60°	1811.3	1794.7	1775.3	1747.6	1708.8	1664.5	1614.7	1556.5	1492.8	1429.1	1359.9
62.5°	1753.1	1739.3	1717.1	1689.4	1650.7	1603.6	1551.0	1490.0	1429.1	1362.6	1287.9
65°	1695.0	1681.1	1659.0	1631.3	1592.5	1539.9	1484.5	1423.6	1354.3	1290.6	1210.3
67.5°	1636.8	1623.0	1598.0	1567.6	1528.8	1479.0	1420.8	1357.1	1287.9	1218.6	1135.5
70°	1578.7	1562.0	1539.9	1506.6	1467.9	1415.3	1357.1	1290.6	1221.4	1146.6	1063.5
72.5°	1520.5	1506.6	1479.0	1448.5	1406.9	1354.3	1296.2	1229.7	1157.7	1080.1	997.0
75°	1462.3	1445.7	1426.3	1390.3	1346.0	1296.2	1235.2	1168.8	1091.2	1016.4	930.6
77.5°	1404.2	1390.3	1365.4	1329.4	1287.9	1235.2	1174.3	1107.8	1030.3	952.7	861.3
80°	1346.0	1329.4	1310.0	1276.8	1229.7	1177.1	1113.4	1046.9	969.4	889.0	797.6
82.5°	1287.9	1271.2	1249.1	1215.8	1171.5	1118.9	1058.0	986.0	908.4	825.3	739.5
85°	1229.7	1215.8	1190.9	1157.7	1110.6	1058.0	997.0	933.3	850.3	767.2	681.3
87.5°	1171.5	1157.7	1132.8	1099.5	1055.2	1002.6	941.7	875.2	794.9	717.3	623.2
90°	1116.1	1105.1	1080.1	1046.9	1002.6	950.0	894.6	822.6	745.0	667.5	578.8
92.5°	1066.3	1055.2	1033.1	999.8	961.0	902.9	847.5	778.3	700.7	620.4	534.5
95°	1022.0	1008.1	986.0	955.5	908.4	858.6	803.2	733.9	659.2	578.8	495.8
97.5°	972.1	958.3	936.1	902.9	864.1	811.5	756.1	689.6	614.8	540.1	457.0
100°	922.3	908.4	883.5	855.8	817.0	764.4	711.8	645.3	576.1	504.1	423.7
102.5°	872.4	858.6	836.4	808.7	769.9	722.9	670.2	606.5	537.3	465.3	390.5
105°	825.3	811.5	789.3	761.6	725.6	678.5	623.2	567.8	501.3	432.1	360.0
107.5°	778.3	764.4	745.0	717.3	681.3	637.0	584.4	526.2	465.3	398.8	329.6
110°	731.2	720.1	697.9	673.0	637.0	592.7	545.6	490.2	429.3	368.4	301.9





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	686.9	675.8	653.6	625.9	595.5	553.9	506.8	454.2	396.0	337.9	274.2
115°	642.5	628.7	609.3	584.4	553.9	515.1	470.8	423.7	365.6	310.2	252.0
117.5°	598.2	587.1	567.8	542.8	515.1	476.4	434.8	390.5	335.1	282.5	229.9
120°	553.9	545.6	526.2	504.1	476.4	440.4	401.6	357.3	307.4	257.6	207.7
122.5°	512.4	504.1	484.7	465.3	437.6	404.4	368.4	326.8	282.5	235.4	191.1
125°	473.6	462.5	445.9	426.5	401.6	371.1	335.1	296.3	254.8	213.3	171.7
127.5°	432.1	423.7	412.7	390.5	365.6	337.9	304.7	271.4	232.6	193.9	155.1
130°	398.8	387.7	373.9	357.3	335.1	307.4	277.0	243.7	210.5	174.5	135.7
132.5°	360.0	349.0	337.9	321.3	301.9	277.0	249.3	218.8	188.3	155.1	121.9
135°	324.0	315.7	304.7	288.0	268.6	249.3	221.6	193.9	166.2	135.7	108.0
137.5°	290.8	282.5	271.4	260.3	241.0	221.6	196.6	171.7	146.8	119.1	94.2
140°	257.6	252.0	241.0	229.9	213.3	193.9	171.7	149.6	127.4	102.5	80.3
142.5°	224.3	218.8	210.5	199.4	185.6	168.9	149.6	130.2	108.0	88.6	69.2
145°	193.9	191.1	182.8	171.7	160.6	144.0	127.4	110.8	91.4	74.8	55.4
147.5°	163.4	160.6	155.1	146.8	135.7	121.9	108.0	91.4	77.5	60.9	44.3
150°	135.7	132.9	130.2	119.1	113.6	99.7	88.6	74.8	63.7	47.1	36.0
152.5°	110.8	110.8	105.2	96.9	91.4	80.3	72.0	60.9	49.9	38.8	27.7
155°	88.6	85.9	83.1	77.5	72.0	63.7	55.4	47.1	38.8	27.7	19.4
157.5°	69.2	66.5	63.7	58.2	52.6	49.9	41.5	33.2	24.9	19.4	13.8
160°	49.9	47.1	44.3	41.5	38.8	33.2	27.7	22.2	16.6	11.1	8.3
162.5°	33.2	30.5	30.5	27.7	24.9	19.4	16.6	13.8	11.1	8.3	5.5
165°	16.6	16.6	13.8	13.8	11.1	8.3	8.3	8.3	5.5	5.5	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2611.7	2611.7	2622.8	2620.0	2611.7	2628.3	2647.7
5°	2603.4	2603.4	2611.7	2611.7	2603.4	2620.0	2636.6
7.5°	2589.6	2586.8	2595.1	2595.1	2584.0	2597.9	2617.2
10°	2564.6	2561.9	2570.2	2570.2	2559.1	2572.9	2589.6
12.5°	2536.9	2531.4	2539.7	2536.9	2525.9	2539.7	2556.3
15°	2500.9	2498.2	2503.7	2498.2	2487.1	2500.9	2517.5
17.5°	2464.9	2456.6	2459.4	2459.4	2440.0	2453.8	2467.7
20°	2417.8	2406.8	2409.5	2406.8	2392.9	2401.2	2417.8
22.5°	2370.8	2354.1	2354.1	2351.4	2334.8	2345.8	2359.7
25°	2312.6	2293.2	2293.2	2290.4	2271.1	2279.4	2293.2
27.5°	2254.4	2235.0	2226.7	2224.0	2204.6	2204.6	2224.0
30°	2193.5	2165.8	2160.3	2152.0	2132.6	2132.6	2149.2
32.5°	2135.3	2096.6	2085.5	2074.4	2055.0	2052.3	2071.6
35°	2057.8	2027.3	2007.9	1996.9	1974.7	1969.2	1985.8
37.5°	1994.1	1955.3	1927.6	1913.8	1891.6	1883.3	1905.5
40°	1924.9	1883.3	1847.3	1839.0	1805.8	1794.7	1814.1
42.5°	1847.3	1803.0	1767.0	1750.4	1725.4	1714.4	1717.1
45°	1769.8	1722.7	1683.9	1661.7	1636.8	1617.4	1628.5
47.5°	1689.4	1647.9	1600.8	1567.6	1537.1	1523.3	1528.8
50°	1609.1	1559.3	1515.0	1479.0	1442.9	1426.3	1437.4
52.5°	1528.8	1476.2	1426.3	1387.6	1346.0	1329.4	1332.2
55°	1451.3	1395.9	1337.7	1296.2	1257.4	1232.5	1226.9
57.5°	1373.7	1312.8	1251.8	1204.8	1154.9	1132.8	1124.4
60°	1290.6	1226.9	1163.2	1107.8	1055.2	1030.3	1019.2
62.5°	1213.1	1143.8	1071.8	1013.7	961.0	927.8	919.5
65°	1138.3	1058.0	986.0	919.5	861.3	825.3	814.3
67.5°	1058.0	974.9	897.3	825.3	769.9	722.9	717.3
70°	983.2	894.6	808.7	733.9	673.0	625.9	603.8
72.5°	908.4	817.0	728.4	648.1	570.5	526.2	509.6
75°	836.4	742.2	648.1	565.0	479.1	426.5	409.9
77.5°	769.9	673.0	573.3	481.9	401.6	335.1	313.0
80°	706.2	606.5	501.3	407.1	321.3	249.3	224.3
82.5°	639.8	545.6	437.6	337.9	249.3	174.5	144.0
85°	581.6	487.4	379.4	279.7	191.1	110.8	77.5
87.5°	534.5	432.1	335.1	235.4	144.0	63.7	22.2
90°	487.4	387.7	290.8	193.9	108.0	36.0	2.8
92.5°	445.9	351.7	254.8	166.2	83.1	24.9	2.8
95°	407.1	315.7	224.3	138.5	66.5	16.6	2.8
97.5°	371.1	285.3	199.4	119.1	55.4	13.8	2.8
100°	340.7	257.6	177.3	105.2	47.1	11.1	2.8
102.5°	310.2	232.6	157.9	91.4	41.5	8.3	2.8
105°	285.3	210.5	141.2	83.1	36.0	8.3	2.8
107.5°	260.3	191.1	127.4	72.0	30.5	5.5	2.8
110°	235.4	174.5	113.6	63.7	27.7	5.5	2.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	216.0	157.9	102.5	58.2	22.2	5.5	2.8
115°	196.6	141.2	91.4	49.9	19.4	2.8	2.8
117.5°	177.3	127.4	80.3	44.3	16.6	2.8	2.8
120°	160.6	113.6	72.0	38.8	13.8	2.8	2.8
122.5°	144.0	102.5	63.7	33.2	11.1	2.8	2.8
125°	130.2	91.4	55.4	27.7	8.3	2.8	2.8
127.5°	116.3	80.3	49.9	24.9	8.3	2.8	2.8
130°	102.5	72.0	41.5	19.4	5.5	2.8	2.8
132.5°	91.4	60.9	36.0	16.6	5.5	2.8	2.8
135°	80.3	52.6	30.5	11.1	5.5	2.8	2.8
137.5°	69.2	44.3	24.9	8.3	2.8	2.8	2.8
140°	58.2	38.8	19.4	8.3	2.8	2.8	2.8
142.5°	49.9	30.5	13.8	5.5	2.8	2.8	2.8
145°	38.8	24.9	11.1	5.5	2.8	2.8	2.8
147.5°	30.5	19.4	8.3	5.5	2.8	2.8	2.8
150°	22.2	13.8	8.3	2.8	2.8	2.8	2.8
152.5°	16.6	11.1	5.5	2.8	2.8	2.8	2.8
155°	11.1	8.3	5.5	2.8	2.8	2.8	2.8
157.5°	8.3	5.5	2.8	2.8	2.8	2.8	2.8
160°	5.5	2.8	2.8	2.8	2.8	2.8	2.8
162.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
165°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)