

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213774

Luminaire Tested: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

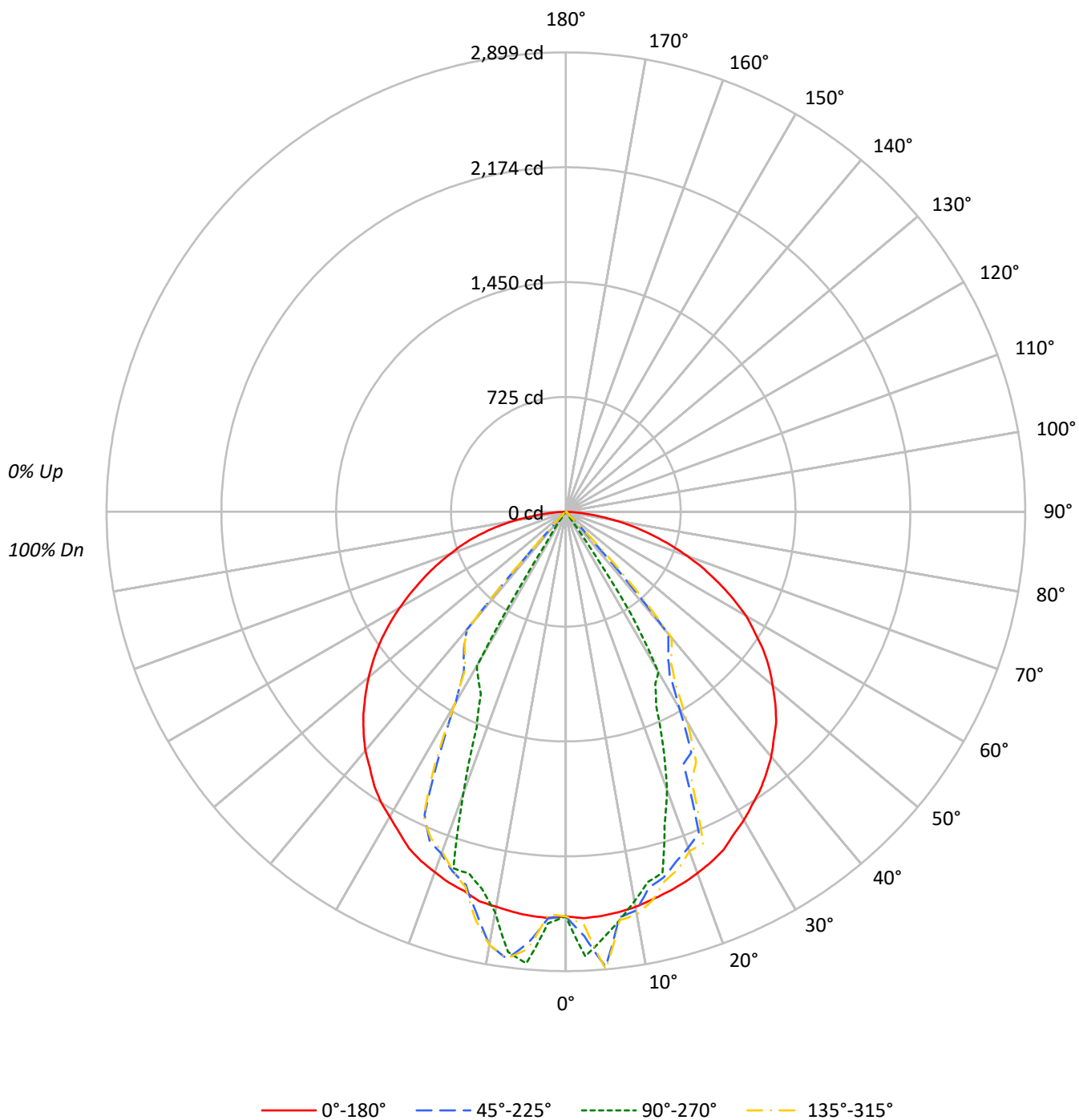
Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 31
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: 24 FT

TEST NUMBER: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213774

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20630	20630	20630	20630
5°	20714	21217	20708	22469
10°	20665	19200	20652	19754
15°	20608	17921	20557	17967
20°	20632	14115	20574	14289
25°	20691	10215	20591	9639
30°	20597	8961	20379	8614
35°	20658	198	20355	239
40°	20730	43	20233	43
45°	20802	26	20021	19
50°	20644	20	19697	20
55°	20522	14	19261	14
60°	20134	15	18561	15
65°	19085	24	17725	16
70°	17705	27	16855	27
75°	15661	30	15919	30
80°	12721	34	13448	34
85°	7488	40	7645	40

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 22462 cd/sqm

TEST NUMBER: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	7.1
10°-20°	698.6	19.2
20°-30°	889.0	24.5
30°-40°	750.9	20.7
40°-50°	491.0	13.5
50°-60°	309.3	8.5
60°-70°	164.7	4.5
70°-80°	60.0	1.7
80°-90°	10.3	0.3
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°	1843.7	50.8
0°-40°	2594.7	71.5
0°-60°	3395.0	93.5
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2553	2553	2553	2553	2553	
5°	2560	2702	2560	2861	2560	243
15°	2484	2358	2478	2364	2484	702
25°	2354	1346	2343	1270	2354	1083
35°	2140	25	2108	31	2140	1339
45°	1877	3	1807	2	1877	1444
55°	1522	2	1428	2	1522	1356
65°	1065	2	989	2	1065	1055
75°	560	2	569	2	560	594
85°	110	2	112	2	110	139
90°	0	0	0	0	0	

TEST NUMBER: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2567.4	2569.0	2569.7	2571.3	2573.6	2574.3	2575.9	2574.3	2574.3	2574.3	2574.3
5°	2560.5	2563.6	2565.9	2569.0	2574.3	2575.1	2581.2	2582.0	2585.1	2591.2	2595.8
7.5°	2549.1	2552.1	2556.7	2564.4	2572.0	2580.5	2591.2	2602.7	2618.8	2634.1	2653.3
10°	2532.2	2536.0	2541.4	2548.3	2585.8	2591.2	2614.9	2647.9	2657.1	2705.4	2741.4
12.5°	2507.7	2520.7	2534.5	2540.6	2576.6	2633.3	2713.0	2696.9	2679.3	2837.1	2834.8
15°	2483.9	2501.6	2494.7	2544.5	2577.4	2676.2	2642.5	2714.5	2846.3	2814.2	2815.7
17.5°	2458.6	2462.5	2500.8	2542.2	2601.2	2651.7	2693.1	2791.9	2818.0	2820.3	2791.9
20°	2426.5	2444.9	2500.8	2538.3	2637.9	2661.7	2751.3	2801.9	2791.2	2765.1	2716.8
22.5°	2393.5	2449.5	2506.2	2559.0	2628.7	2692.3	2736.8	2760.5	2704.6	2601.9	2546.8
25°	2354.4	2387.4	2461.7	2539.1	2626.4	2663.2	2689.3	2651.0	2578.2	2486.2	2393.5
27.5°	2293.9	2346.8	2441.8	2529.1	2608.1	2652.5	2610.4	2518.4	2401.2	2340.7	2298.5
30°	2247.2	2316.1	2394.3	2478.6	2560.5	2586.6	2479.3	2374.4	2293.9	2233.4	2224.2
32.5°	2190.5	2288.6	2362.9	2443.3	2512.3	2477.8	2373.6	2238.0	2171.3	2148.3	2157.5
35°	2139.9	2214.2	2311.5	2390.5	2440.3	2362.9	2198.1	2113.9	2081.7	2094.7	2077.9
37.5°	2079.4	2177.5	2267.1	2335.3	2318.4	2202.0	2062.5	2008.9	2012.7	2002.0	1969.8
40°	2016.6	2110.0	2203.5	2267.9	2208.9	2031.1	1938.4	1926.9	1929.2	1894.7	1848.8
42.5°	1943.0	2028.1	2121.5	2179.8	2052.6	1913.9	1851.1	1852.6	1832.7	1784.4	1759.9
45°	1877.1	1955.3	2052.6	2057.9	1901.6	1785.9	1767.6	1747.6	1703.2	1687.1	1668.7
47.5°	1792.8	1879.4	1959.9	1930.8	1753.8	1681.7	1668.0	1624.3	1602.1	1589.8	1574.5
50°	1703.2	1790.5	1864.1	1781.4	1614.3	1597.5	1552.3	1517.8	1502.5	1489.4	1475.6
52.5°	1618.2	1690.2	1765.3	1622.8	1507.1	1491.0	1439.6	1419.7	1404.4	1389.8	1386.8
55°	1521.6	1585.2	1636.5	1471.8	1404.4	1366.9	1330.1	1316.3	1301.7	1294.8	1306.3
57.5°	1412.1	1484.1	1476.4	1323.2	1293.3	1238.9	1225.1	1215.9	1205.2	1209.8	1114.0
60°	1313.2	1368.4	1330.8	1214.4	1163.8	1127.0	1114.8	1108.7	1114.8	1021.3	898.0
62.5°	1191.4	1253.5	1177.6	1087.2	1033.6	1015.9	1005.2	1013.6	924.0	821.3	791.5
65°	1065.0	1132.4	1020.5	950.8	917.1	901.8	901.0	829.8	741.7	701.8	701.8
67.5°	943.2	1012.9	868.8	810.6	797.6	799.1	754.7	646.6	622.1	595.3	517.9
70°	813.7	875.0	717.9	682.7	675.0	669.6	561.6	532.5	503.4	432.1	426.0
72.5°	685.0	714.8	576.9	568.5	567.0	471.2	449.7	399.9	366.2	357.8	354.0
75°	560.1	550.9	455.9	463.5	390.7	357.0	322.6	293.4	288.8	285.8	71.3
77.5°	442.1	396.1	359.3	312.6	279.7	237.5	230.6	226.0	148.6	53.6	43.7
80°	321.8	256.7	239.0	203.0	173.2	166.3	170.1	52.1	41.4	34.5	29.9
82.5°	204.6	164.0	134.1	117.2	114.2	49.8	36.8	29.9	26.0	22.2	18.4
85°	109.6	72.8	67.4	56.7	33.7	23.0	19.2	14.6	12.3	10.0	9.2
87.5°	34.5	29.1	23.8	19.2	11.5	7.7	6.1	5.4	4.6	3.8	3.8
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2572.8	2574.3	2573.6	2575.9	2575.9	2578.9	2581.2	2583.5	2588.1	2590.4	2608.1
5°	2605.8	2609.6	2621.1	2631.8	2644.8	2648.7	2670.9	2676.2	2702.3	2705.4	2791.2
7.5°	2679.3	2693.9	2721.4	2749.0	2776.6	2794.2	2824.9	2844.0	2864.7	2883.1	2951.3
10°	2768.2	2792.7	2819.5	2847.1	2863.2	2896.9	2915.3	2918.4	2913.0	2883.1	2772.8
12.5°	2855.5	2880.0	2868.6	2873.9	2893.1	2833.3	2841.7	2798.8	2828.7	2680.8	2571.3
15°	2843.3	2841.7	2813.4	2721.4	2736.8	2622.6	2576.6	2541.4	2569.7	2554.4	2537.6
17.5°	2806.5	2736.8	2687.7	2577.4	2530.7	2498.5	2499.3	2500.0	2486.2	2500.8	2457.9
20°	2651.0	2572.8	2500.0	2460.9	2447.2	2424.2	2435.7	2424.2	2424.9	2429.5	2363.6
22.5°	2444.1	2420.3	2378.2	2390.5	2385.9	2406.5	2391.2	2367.5	2375.1	2340.7	2290.9
25°	2360.6	2333.0	2331.5	2336.1	2329.2	2320.0	2306.2	2270.2	2267.9	2257.1	2234.2
27.5°	2276.3	2277.8	2282.4	2268.6	2244.1	2225.7	2205.0	2187.4	2194.3	2182.1	2150.6
30°	2218.1	2217.3	2189.7	2177.5	2132.3	2133.0	2127.7	2116.9	2110.0	2110.8	2090.9
32.5°	2135.3	2111.6	2080.2	2064.8	2061.0	2047.2	2036.5	2038.8	2044.1	2025.0	2045.7
35°	2050.3	2001.2	1996.6	1983.6	1971.4	1962.2	1966.0	1950.7	1949.9	1947.6	1779.1
37.5°	1936.1	1912.4	1910.1	1896.3	1887.8	1885.6	1871.0	1873.3	1880.2	1892.4	1517.0
40°	1841.9	1820.4	1815.1	1814.3	1795.9	1794.4	1798.2	1812.8	1822.7	1746.1	1445.8
42.5°	1740.7	1742.3	1725.4	1714.7	1717.0	1723.9	1742.3	1691.7	1465.7	1396.7	1321.6
45°	1654.2	1646.5	1637.3	1634.2	1654.2	1640.4	1438.1	1327.0	1300.2	1297.1	1086.4
47.5°	1563.8	1561.5	1557.6	1559.9	1446.5	1289.5	1243.5	1228.9	1233.5	1230.5	933.2
50°	1472.6	1475.6	1475.6	1288.7	1183.0	1156.9	1160.8	1173.8	1092.6	1019.8	869.6
52.5°	1393.7	1369.9	1173.8	1106.4	1082.6	1094.1	1066.5	964.6	891.1	848.2	804.5
55°	1247.3	1072.6	1029.0	1018.2	1026.7	924.8	861.9	796.1	776.9	772.3	747.0
57.5°	981.5	946.2	950.1	907.1	809.8	752.4	727.1	717.9	709.5	703.3	61.3
60°	868.1	878.0	803.7	711.8	672.7	665.0	658.9	650.5	648.9	638.2	39.1
62.5°	794.5	698.7	634.4	611.4	602.2	599.9	588.4	584.6	496.5	68.2	29.1
65°	599.1	560.1	547.8	542.5	532.5	532.5	442.1	69.7	56.7	49.0	26.0
67.5°	488.8	485.8	479.6	472.7	321.8	67.4	59.0	51.3	44.4	39.1	23.0
70°	413.7	412.2	375.4	69.0	57.5	50.6	44.4	39.8	36.8	32.9	20.7
72.5°	339.4	69.0	58.2	50.6	43.7	39.8	36.0	32.2	29.1	26.8	16.9
75°	52.9	46.7	41.4	37.5	34.5	30.6	27.6	25.3	24.5	21.5	11.5
77.5°	38.3	32.9	29.9	26.8	23.8	21.5	18.4	16.1	14.6	12.3	8.4
80°	26.8	23.8	21.5	17.6	15.3	13.0	11.5	10.0	9.2	7.7	3.8
82.5°	15.3	13.0	11.5	9.2	8.4	6.9	6.1	5.4	5.4	3.8	3.8
85°	6.9	6.9	5.4	4.6	3.8	3.8	3.8	3.1	3.1	2.3	2.3
87.5°	3.1	3.1	3.1	3.1	3.1	2.3	2.3	2.3	2.3	2.3	1.5
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2632.6	2642.5	2661.7	2681.6	2659.4	2739.1	2732.9	2759.8	2774.3	2781.2	2797.3
5°	2867.0	2911.5	2926.0	2882.3	2857.1	2831.0	2772.0	2727.6	2732.9	2718.4	2665.5
7.5°	2862.4	2767.4	2639.5	2581.2	2576.6	2569.7	2588.1	2598.9	2600.4	2599.6	2598.1
10°	2620.3	2571.3	2562.8	2555.2	2558.3	2529.9	2516.9	2480.1	2500.0	2489.3	2493.1
12.5°	2546.8	2535.3	2490.1	2427.2	2464.8	2436.4	2420.3	2431.1	2418.8	2407.3	2403.5
15°	2503.1	2428.8	2403.5	2388.2	2377.4	2371.3	2376.7	2364.4	2360.6	2358.3	2363.6
17.5°	2412.7	2382.8	2355.2	2314.6	2315.4	2313.1	2328.4	2351.4	2352.9	2234.9	2128.4
20°	2341.4	2316.9	2281.7	2256.4	2290.9	2229.6	1992.8	1880.2	1862.6	1862.6	1865.6
22.5°	2284.7	2230.3	2232.6	2192.8	1870.2	1804.3	1805.9	1812.8	1781.4	1674.1	1662.6
25°	2207.3	2198.9	2031.1	1755.3	1757.6	1706.3	1627.4	1516.3	1396.0	1396.0	1376.0
27.5°	2149.1	1970.6	1725.4	1713.9	1541.5	1432.7	1365.3	1263.4	1249.6	1236.6	1238.1
30°	2099.3	1667.2	1673.3	1432.7	1305.6	1215.1	1209.8	1192.9	1184.5	1182.2	1173.8
32.5°	1659.5	1623.5	1400.6	1219.7	1169.9	1155.4	1148.5	1129.3	1128.6	1114.0	1012.9
35°	1556.1	1425.1	1172.2	1123.2	1108.7	1094.9	1083.4	727.1	85.8	34.5	29.9
37.5°	1438.1	1190.6	1084.1	1061.9	1048.1	774.6	77.4	26.8	19.2	13.8	12.3
40°	1219.0	1063.4	1029.7	1005.2	414.5	26.8	16.9	13.0	7.7	6.9	6.1
42.5°	1028.2	1002.2	966.1	294.2	30.6	13.0	8.4	6.1	5.4	5.4	4.6
45°	962.3	939.3	389.2	29.1	19.2	6.1	5.4	5.4	4.6	3.1	3.1
47.5°	901.0	793.0	35.2	18.4	12.3	5.4	4.6	3.1	3.1	3.1	2.3
50°	835.9	43.7	24.5	13.8	7.7	3.1	3.1	3.1	3.1	2.3	2.3
52.5°	156.3	30.6	19.9	12.3	3.8	3.1	3.1	3.1	2.3	2.3	2.3
55°	36.8	24.5	18.4	10.7	3.1	3.1	3.1	2.3	2.3	2.3	1.5
57.5°	27.6	18.4	14.6	10.0	3.1	2.3	2.3	2.3	2.3	2.3	1.5
60°	23.0	13.0	11.5	9.2	2.3	2.3	2.3	2.3	2.3	2.3	1.5
62.5°	16.1	10.7	8.4	6.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
65°	13.0	8.4	6.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	11.5	6.9	4.6	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	9.2	2.3	2.3	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	7.7	2.3	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	7.7	3.8	1.5	1.5	2.3	2.3	3.1	3.1	2.3	2.3	2.3
77.5°	5.4	3.8	1.5	1.5	2.3	2.3	3.1	3.1	2.3	2.3	2.3
80°	3.1	3.8	1.5	2.3	2.3	4.6	5.4	3.1	2.3	2.3	2.3
82.5°	3.1	3.8	4.6	4.6	2.3	3.8	4.6	3.8	3.1	2.3	2.3
85°	3.1	2.3	3.1	3.8	2.3	3.8	3.8	3.1	3.1	2.3	2.3
87.5°	1.5	2.3	2.3	3.1	3.1	3.1	3.8	3.1	3.1	3.1	2.3
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2805.0	2808.0	2759.8	2742.9	2757.5	2754.4	2741.4	2693.1	2687.7	2655.6	2608.8
5°	2680.8	2701.5	2676.2	2719.9	2699.2	2719.9	2782.7	2811.9	2859.4	2888.5	2899.2
7.5°	2594.3	2598.9	2598.9	2602.7	2606.5	2607.3	2602.7	2599.6	2586.6	2570.5	2599.6
10°	2489.3	2494.7	2503.9	2502.3	2501.6	2517.6	2521.5	2554.4	2552.9	2559.0	2581.2
12.5°	2434.9	2393.5	2431.1	2421.1	2434.9	2413.4	2453.3	2446.4	2448.7	2467.1	2514.6
15°	2344.5	2357.5	2366.7	2366.7	2372.1	2367.5	2362.9	2394.3	2413.4	2414.2	2411.1
17.5°	2170.6	2071.7	2172.9	2146.8	2354.4	2359.8	2342.2	2327.6	2327.6	2339.1	2363.6
20°	1863.3	1865.6	1866.4	1876.4	1888.6	1887.8	1888.6	2190.5	2333.8	2300.8	2278.6
22.5°	1633.5	1605.1	1658.0	1654.2	1720.1	1792.8	1862.6	1855.7	1860.3	2073.3	2264.8
25°	1309.4	1346.2	1316.3	1329.3	1403.6	1490.2	1543.8	1684.0	1836.5	1825.8	1875.6
27.5°	1232.8	1222.8	1236.6	1236.6	1246.6	1258.1	1287.9	1366.9	1502.5	1645.0	1779.8
30°	1160.0	1168.4	1169.9	1183.7	1191.4	1199.1	1203.7	1233.5	1264.2	1363.0	1529.3
32.5°	871.1	763.9	1005.2	1070.3	1125.5	1138.5	1147.7	1160.0	1182.2	1196.8	1280.3
35°	25.3	25.3	26.8	30.6	39.1	263.6	1003.7	1106.4	1120.9	1139.3	1154.6
37.5°	12.3	9.2	10.7	11.5	13.8	19.2	27.6	85.8	955.4	1080.3	1097.2
40°	5.4	5.4	5.4	5.4	6.1	7.7	11.5	19.2	29.1	768.5	1036.6
42.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.4	6.9	13.8	32.9	544.0
45°	3.1	3.1	2.3	3.1	3.1	3.8	4.6	4.6	6.1	20.7	37.5
47.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.8	4.6	13.8	19.9
50°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	10.7	13.8
52.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6	12.3
55°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.1	10.7
57.5°	1.5	1.5	1.5	1.5	1.5	2.3	1.5	1.5	2.3	2.3	10.0
60°	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	2.3	9.2
62.5°	2.3	2.3	1.5	2.3	1.5	1.5	2.3	2.3	2.3	2.3	6.1
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.5	2.3
67.5°	2.3	2.3	2.3	2.3	1.5	2.3	1.5	2.3	2.3	1.5	1.5
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5
75°	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	1.5	1.5	1.5
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.8	4.6	3.8	3.8	1.5
80°	2.3	2.3	2.3	2.3	2.3	2.3	3.8	3.8	3.8	3.8	5.4
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	3.1	3.8
85°	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	2.3	3.1
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	2.3	2.3	2.3
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2612.6	2586.6	2578.2	2560.5	2559.0	2560.5	2556.7	2551.4	2554.4	2549.1	2544.5
5°	2905.3	2835.6	2790.4	2729.9	2646.4	2628.0	2623.4	2597.3	2588.1	2585.1	2572.8
7.5°	2668.6	2795.8	2872.4	2898.4	2800.4	2777.4	2750.6	2729.1	2708.4	2669.3	2645.6
10°	2563.6	2569.7	2643.3	2729.1	2868.6	2887.7	2902.3	2855.5	2842.5	2742.9	2721.4
12.5°	2539.1	2539.9	2548.3	2600.4	2710.0	2722.2	2773.5	2801.1	2834.8	2854.0	2838.7
15°	2427.2	2489.3	2535.3	2539.9	2549.8	2571.3	2586.6	2682.4	2723.0	2831.8	2825.6
17.5°	2375.1	2395.1	2461.7	2516.1	2506.9	2499.3	2511.5	2524.5	2563.6	2672.4	2670.9
20°	2288.6	2352.2	2388.2	2444.9	2496.2	2498.5	2484.7	2477.0	2461.7	2479.3	2495.4
22.5°	2251.8	2261.7	2329.2	2369.0	2427.2	2447.9	2451.0	2451.8	2443.3	2434.1	2429.5
25°	2248.0	2216.5	2251.0	2300.8	2343.7	2365.9	2391.2	2399.7	2396.6	2396.6	2392.0
27.5°	1839.6	2206.6	2188.2	2221.1	2273.2	2288.6	2301.6	2327.6	2343.7	2355.2	2360.6
30°	1752.2	1818.1	2139.2	2143.8	2196.6	2195.1	2209.6	2231.1	2251.8	2278.6	2285.5
32.5°	1550.0	1711.6	1958.3	2066.4	2121.5	2126.9	2134.6	2140.7	2159.8	2189.7	2215.8
35°	1242.0	1559.2	1677.9	2029.6	2039.6	2050.3	2054.9	2069.4	2075.6	2087.8	2110.8
37.5°	1124.0	1288.7	1609.7	1755.3	1945.3	1954.5	1979.0	1985.2	1995.1	2005.1	2022.7
40°	1055.8	1101.0	1340.0	1567.6	1869.5	1875.6	1884.0	1899.3	1900.1	1911.6	1927.7
42.5°	1001.4	1030.5	1100.2	1497.1	1815.8	1815.1	1795.1	1805.1	1809.7	1822.0	1844.2
45°	799.9	966.9	1011.3	1222.8	1445.8	1550.0	1749.9	1717.0	1716.2	1720.8	1744.6
47.5°	40.6	909.4	940.9	1009.0	1365.3	1369.2	1395.2	1614.3	1648.0	1637.3	1639.6
50°	27.6	62.8	876.5	907.9	1176.8	1271.8	1291.0	1301.0	1427.4	1568.4	1545.4
52.5°	21.5	36.0	537.1	842.8	956.2	1025.9	1149.3	1219.7	1227.4	1284.1	1476.4
55°	19.2	27.6	58.2	777.7	812.9	828.2	900.3	1023.6	1123.2	1153.1	1155.4
57.5°	16.9	25.3	39.8	351.7	739.4	742.4	754.7	797.6	887.2	969.2	1061.9
60°	15.3	22.2	31.4	60.5	671.9	679.6	681.9	693.4	704.1	760.0	866.5
62.5°	9.2	17.6	27.6	43.7	531.7	610.6	609.9	617.5	627.5	633.6	655.1
65°	7.7	13.8	23.8	36.8	65.1	81.2	493.4	548.6	554.7	563.1	567.0
67.5°	6.9	12.3	17.6	29.1	49.0	55.9	64.4	79.7	435.2	490.4	498.0
70°	6.1	8.4	14.6	24.5	39.8	42.9	48.3	55.2	65.1	80.4	393.8
72.5°	3.8	6.1	10.0	17.6	30.6	34.5	37.5	42.1	46.7	55.9	64.4
75°	1.5	4.6	8.4	13.0	23.8	26.0	28.3	31.4	35.2	41.4	46.0
77.5°	1.5	3.8	6.9	9.2	15.3	17.6	20.7	23.0	26.0	29.1	33.7
80°	5.4	3.1	4.6	6.9	10.7	11.5	13.0	14.6	16.9	19.2	22.2
82.5°	3.8	4.6	5.4	4.6	5.4	6.9	7.7	9.2	10.0	11.5	12.3
85°	3.1	3.1	3.8	3.8	3.8	3.8	3.8	3.8	4.6	5.4	6.9
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2544.5	2542.9	2538.3	2538.3	2537.6	2540.6	2542.9	2545.2	2544.5	2549.1	2544.5
5°	2563.6	2559.8	2552.9	2546.8	2544.5	2546.0	2543.7	2546.0	2542.9	2546.8	2539.9
7.5°	2616.5	2603.5	2576.6	2565.9	2552.1	2551.4	2544.5	2542.9	2538.3	2538.3	2529.9
10°	2710.0	2647.1	2639.5	2607.3	2595.8	2539.9	2552.1	2531.4	2529.1	2519.2	2515.3
12.5°	2786.6	2737.5	2723.0	2694.6	2662.5	2549.1	2574.3	2529.9	2527.6	2507.7	2487.0
15°	2788.1	2816.5	2776.6	2698.5	2691.6	2613.4	2562.1	2546.8	2526.8	2467.1	2477.0
17.5°	2698.5	2763.6	2782.7	2765.9	2716.8	2664.0	2592.0	2561.3	2501.6	2474.7	2456.3
20°	2552.9	2618.8	2700.8	2706.1	2736.8	2699.2	2605.0	2555.2	2483.2	2436.4	2421.1
22.5°	2437.2	2485.5	2579.7	2623.4	2660.9	2673.9	2614.2	2540.6	2451.0	2405.8	2396.6
25°	2375.9	2386.6	2415.0	2466.3	2549.1	2608.8	2617.2	2539.1	2492.4	2393.5	2341.4
27.5°	2353.7	2344.5	2333.0	2359.0	2421.1	2493.9	2542.2	2555.2	2438.7	2344.5	2292.4
30°	2297.0	2302.3	2284.7	2275.5	2316.1	2391.2	2477.0	2498.5	2408.8	2311.5	2251.8
32.5°	2227.3	2236.5	2239.5	2223.4	2215.0	2267.1	2359.8	2411.1	2406.5	2264.8	2198.1
35°	2139.9	2166.0	2172.9	2173.6	2159.8	2151.4	2205.0	2311.5	2352.2	2243.4	2146.8
37.5°	2048.0	2055.6	2093.2	2103.1	2103.1	2077.9	2117.7	2202.7	2259.4	2195.1	2084.0
40°	1933.1	1957.6	1992.8	2010.4	2028.1	2030.4	2008.1	2067.9	2161.4	2145.3	2025.0
42.5°	1849.5	1865.6	1887.1	1910.8	1946.8	1956.0	1933.1	1943.8	2041.1	2083.2	1948.4
45°	1752.2	1773.7	1779.8	1805.9	1843.4	1870.2	1869.5	1847.2	1925.4	1977.5	1892.4
47.5°	1652.6	1673.3	1684.0	1697.1	1724.7	1759.1	1778.3	1768.3	1783.7	1885.6	1818.1
50°	1550.0	1561.5	1582.9	1597.5	1615.9	1635.8	1681.7	1690.9	1669.5	1750.7	1736.1
52.5°	1452.7	1456.5	1471.1	1485.6	1510.1	1524.7	1561.5	1589.0	1587.5	1611.3	1645.0
55°	1376.8	1360.0	1363.0	1374.5	1390.6	1412.8	1433.5	1476.4	1491.0	1495.6	1549.2
57.5°	1075.7	1248.9	1264.2	1263.4	1282.6	1292.5	1311.7	1340.0	1392.1	1380.6	1440.4
60°	977.6	996.8	1141.6	1158.5	1165.3	1174.5	1197.5	1223.6	1261.9	1286.4	1312.5
62.5°	745.5	861.9	905.6	1033.6	1053.5	1058.9	1074.2	1086.4	1126.3	1182.2	1171.5
65°	576.9	626.7	760.0	812.1	920.9	934.7	956.2	969.2	980.7	1045.1	1048.1
67.5°	498.8	506.4	542.5	642.8	711.8	818.3	831.3	842.8	860.4	906.4	934.7
70°	426.0	435.2	445.1	453.6	543.2	613.7	712.5	716.4	727.9	758.5	822.9
72.5°	80.4	363.9	370.1	375.4	385.4	432.1	526.4	603.0	607.6	622.1	681.1
75°	54.4	63.6	87.3	300.3	310.3	313.4	329.5	425.2	495.7	498.8	524.8
77.5°	39.1	43.7	52.9	62.8	160.1	240.6	244.4	262.0	334.8	387.7	392.3
80°	26.8	29.9	35.2	39.8	49.0	64.4	177.8	183.1	192.3	265.1	278.9
82.5°	15.3	17.6	20.7	25.3	29.1	36.8	47.5	61.3	124.9	133.3	177.0
85°	7.7	8.4	10.0	12.3	14.6	17.6	23.8	29.1	39.8	72.0	74.3
87.5°	3.8	3.8	3.8	3.8	6.1	6.9	8.4	10.7	13.8	20.7	26.8
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2545.2	2556.0	2565.1	2567.4	2567.4	2569.0	2571.3	2572.8	2574.3	2575.9	2574.3
5°	2540.6	2552.1	2559.8	2562.1	2562.1	2566.7	2570.5	2575.1	2577.4	2577.4	2575.9
7.5°	2529.1	2537.6	2547.5	2553.7	2554.4	2562.1	2569.0	2568.2	2571.3	2572.8	2576.6
10°	2513.8	2513.8	2530.7	2535.3	2539.1	2547.5	2549.8	2554.4	2565.1	2566.7	2576.6
12.5°	2506.2	2498.5	2518.4	2520.7	2533.7	2523.0	2536.8	2541.4	2530.7	2545.2	2526.1
15°	2471.7	2480.9	2477.8	2484.7	2507.7	2495.4	2533.0	2520.7	2548.3	2515.3	2573.6
17.5°	2443.3	2441.8	2454.1	2460.2	2464.8	2490.8	2500.8	2514.6	2525.3	2516.1	2539.1
20°	2422.6	2410.4	2419.6	2426.5	2442.6	2462.5	2468.6	2447.9	2483.9	2545.2	2559.8
22.5°	2383.6	2375.1	2385.9	2385.9	2410.4	2407.3	2430.3	2417.3	2451.0	2522.2	2596.6
25°	2330.7	2331.5	2343.0	2356.7	2361.3	2395.8	2408.1	2424.9	2467.1	2552.1	2597.3
27.5°	2277.1	2272.5	2279.4	2307.7	2331.5	2356.7	2360.6	2418.0	2475.5	2533.7	2573.6
30°	2223.4	2218.8	2223.4	2244.1	2272.5	2289.3	2331.5	2408.1	2461.7	2501.6	2539.1
32.5°	2166.0	2161.4	2172.1	2187.4	2237.2	2239.5	2323.0	2395.1	2437.2	2466.3	2459.4
35°	2104.7	2098.5	2108.5	2132.3	2178.2	2195.1	2282.4	2336.1	2383.6	2397.4	2365.2
37.5°	2031.1	2020.4	2032.7	2065.6	2113.9	2162.9	2235.7	2297.8	2323.0	2286.3	2248.0
40°	1954.5	1946.8	1968.3	1985.2	2041.9	2110.0	2193.6	2237.2	2221.1	2179.0	2136.9
42.5°	1886.3	1870.2	1889.4	1921.6	1985.9	2063.3	2130.7	2155.2	2116.9	2054.9	2005.8
45°	1802.8	1783.7	1806.6	1849.5	1918.5	2006.6	2059.5	2051.0	1985.9	1932.3	1864.9
47.5°	1715.5	1692.5	1715.5	1766.8	1844.2	1937.7	1976.0	1937.7	1855.7	1788.2	1733.8
50°	1629.6	1602.8	1625.1	1702.4	1778.3	1850.3	1849.5	1775.2	1726.2	1652.6	1605.1
52.5°	1544.6	1506.3	1528.5	1612.8	1688.6	1770.6	1710.1	1641.1	1582.1	1517.8	1502.5
55°	1439.6	1398.3	1428.1	1550.7	1609.0	1657.2	1560.7	1500.2	1441.9	1409.8	1390.6
57.5°	1340.0	1294.8	1320.9	1465.7	1508.6	1520.9	1432.0	1346.2	1311.7	1301.0	1273.4
60°	1237.4	1186.0	1210.6	1377.6	1407.5	1357.7	1270.3	1203.7	1196.8	1175.3	1153.9
62.5°	1139.3	1082.6	1097.9	1268.0	1281.8	1191.4	1111.0	1093.3	1076.5	1055.0	1043.5
65°	1026.7	967.7	989.1	1151.6	1138.5	1022.1	976.9	973.0	950.8	933.2	950.1
67.5°	923.2	853.5	883.4	1024.4	965.4	870.4	852.0	842.8	825.2	835.1	658.1
70°	809.8	734.0	774.6	887.2	799.9	737.1	730.2	716.4	717.1	570.0	480.4
72.5°	683.4	617.5	676.5	737.1	632.9	614.5	604.5	603.0	486.5	395.3	373.1
75°	572.3	505.7	569.3	592.3	504.1	491.9	491.1	406.1	319.5	304.9	298.0
77.5°	446.7	395.3	455.9	421.4	386.9	373.1	334.8	251.3	240.6	230.6	86.6
80°	301.1	304.9	340.2	290.4	275.8	235.2	185.4	177.8	153.2	61.3	48.3
82.5°	183.1	229.9	216.8	181.6	177.8	128.0	117.2	59.8	44.4	35.2	30.6
85°	95.0	116.5	111.9	98.8	73.6	65.9	36.8	28.3	23.0	17.6	14.6
87.5°	32.2	42.9	41.4	32.9	25.3	19.9	13.0	10.7	7.7	6.1	5.4
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2572.8	2572.8	2571.3	2572.8	2573.6	2572.0	2572.0	2573.6	2574.3	2575.1	2578.9
5°	2576.6	2578.2	2580.5	2585.1	2585.8	2595.0	2598.9	2601.2	2603.5	2604.2	2598.9
7.5°	2585.1	2590.4	2595.0	2594.3	2588.9	2574.3	2569.7	2565.9	2572.8	2590.4	2611.1
10°	2592.7	2568.2	2522.2	2585.1	2565.9	2583.5	2635.6	2647.1	2682.4	2732.2	2746.7
12.5°	2539.9	2607.3	2621.8	2551.4	2681.6	2633.3	2690.8	2741.4	2755.9	2806.5	2775.8
15°	2596.6	2629.5	2651.7	2722.2	2714.5	2755.9	2772.0	2762.1	2764.4	2777.4	2811.9
17.5°	2595.8	2661.7	2676.2	2723.7	2755.9	2756.7	2752.1	2747.5	2759.8	2769.7	2749.0
20°	2640.2	2661.7	2690.0	2709.2	2715.3	2723.0	2737.5	2726.0	2703.1	2680.8	2671.6
22.5°	2618.0	2666.3	2690.8	2693.9	2690.0	2666.3	2644.8	2612.6	2601.9	2590.4	2594.3
25°	2622.6	2644.8	2641.8	2629.5	2613.4	2569.0	2558.3	2544.5	2523.8	2474.0	2428.8
27.5°	2589.7	2578.2	2564.4	2534.5	2505.4	2481.6	2454.8	2410.4	2373.6	2320.0	2300.1
30°	2534.5	2488.5	2454.8	2437.2	2408.8	2369.0	2328.4	2274.0	2227.3	2216.5	2206.6
32.5°	2428.8	2383.6	2356.0	2313.1	2264.8	2217.3	2170.6	2149.1	2139.2	2140.7	2131.5
35°	2320.7	2280.9	2239.5	2175.2	2139.2	2091.7	2074.8	2070.2	2061.0	2051.0	2040.3
37.5°	2205.8	2159.1	2097.0	2058.7	2022.7	2003.5	1995.1	1988.2	1972.1	1954.5	1942.2
40°	2094.7	2010.4	1976.0	1938.4	1927.7	1919.3	1907.0	1890.1	1867.9	1864.9	1859.5
42.5°	1946.1	1885.6	1855.7	1848.0	1835.0	1820.4	1809.7	1791.3	1782.1	1788.2	1792.8
45°	1805.1	1774.5	1764.5	1755.3	1730.8	1710.1	1703.2	1697.1	1704.7	1738.4	1658.0
47.5°	1690.9	1678.7	1666.4	1651.1	1628.1	1612.8	1619.7	1625.8	1632.7	1385.2	1264.2
50°	1592.1	1575.3	1556.1	1539.2	1525.4	1523.9	1559.9	1451.9	1215.9	1209.8	1087.2
52.5°	1484.1	1458.8	1447.3	1437.3	1443.5	1466.5	1213.6	1126.3	1080.3	938.6	875.7
55°	1367.6	1345.4	1345.4	1354.6	1321.6	1071.1	1058.1	914.8	828.2	803.7	793.8
57.5°	1251.2	1248.9	1261.9	1153.9	972.3	932.4	783.8	752.4	738.6	735.5	719.4
60°	1144.7	1166.1	976.1	898.0	780.7	704.1	682.7	678.8	664.3	658.9	644.4
62.5°	1059.6	878.8	818.3	668.1	629.0	619.1	607.6	602.2	589.2	520.2	152.5
65°	765.4	723.3	586.9	561.6	558.5	544.0	539.4	485.0	114.2	76.6	65.1
67.5°	577.7	512.6	494.9	490.4	475.8	446.7	132.5	75.9	65.1	56.7	49.8
70°	443.6	432.1	419.1	408.4	120.3	75.1	65.1	55.2	47.5	42.1	38.3
72.5°	363.2	355.5	206.9	78.9	64.4	54.4	48.3	42.1	36.8	33.7	30.6
75°	284.3	78.9	65.1	54.4	46.7	39.8	35.2	31.4	28.3	26.0	23.8
77.5°	64.4	52.1	44.4	37.5	33.7	29.9	26.8	23.0	20.7	18.4	15.3
80°	39.8	34.5	29.1	26.8	23.0	19.2	16.9	15.3	12.3	11.5	10.0
82.5°	26.0	20.7	18.4	15.3	12.3	11.5	10.0	7.7	6.9	6.1	5.4
85°	11.5	10.0	8.4	6.9	5.4	4.6	3.8	3.1	3.1	3.1	3.1
87.5°	3.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2580.5	2594.3	2607.3	2603.5	2589.7	2568.2	2562.1	2553.7	2559.8	2572.8	2578.2
5°	2598.9	2591.2	2618.8	2659.4	2725.3	2731.4	2777.4	2788.1	2824.9	2847.9	2847.1
7.5°	2624.9	2733.7	2778.9	2827.9	2850.2	2844.8	2851.7	2846.3	2837.9	2834.1	2829.5
10°	2757.5	2840.2	2857.1	2857.1	2822.6	2775.8	2755.9	2721.4	2652.5	2654.0	2642.5
12.5°	2834.8	2864.0	2824.1	2790.4	2651.7	2598.1	2539.9	2512.3	2496.2	2471.7	2480.9
15°	2794.2	2752.9	2729.1	2620.3	2535.3	2438.7	2440.3	2423.4	2405.8	2407.3	2395.8
17.5°	2734.5	2701.5	2533.0	2457.9	2416.5	2379.0	2372.1	2349.9	2338.4	2334.5	2333.8
20°	2652.5	2533.7	2408.1	2389.7	2339.9	2297.0	2290.1	2297.0	2332.2	2269.4	2056.4
22.5°	2556.7	2385.9	2349.1	2297.0	2263.3	2246.4	2288.6	2097.0	1807.4	1842.6	1805.1
25°	2394.3	2320.0	2257.1	2217.3	2213.5	2110.0	1758.4	1721.6	1535.4	1435.8	1323.9
27.5°	2275.5	2243.4	2177.5	2170.6	2120.8	1725.4	1542.3	1340.0	1265.7	1254.2	1229.7
30°	2203.5	2157.5	2117.7	1943.8	1692.5	1389.1	1237.4	1209.0	1196.0	1182.2	1160.8
32.5°	2116.9	2073.3	2092.4	1634.2	1349.2	1196.0	1165.3	1144.7	1120.9	1111.7	1034.3
35°	2028.8	2008.9	1635.0	1373.7	1160.0	1123.2	1100.2	1078.8	858.1	207.6	70.5
37.5°	1934.6	1930.0	1469.5	1140.1	1086.4	1052.0	986.8	203.8	48.3	32.9	24.5
40°	1861.0	1470.3	1161.5	1068.8	1025.1	970.7	136.4	33.7	21.5	13.0	8.4
42.5°	1812.0	1322.4	1039.7	1002.9	907.9	100.4	34.5	14.6	8.4	6.9	5.4
45°	1396.7	1044.3	971.5	933.2	114.9	34.5	19.9	6.9	5.4	4.6	3.1
47.5°	1288.7	948.5	905.6	203.8	38.3	18.4	13.8	4.6	3.1	3.1	3.1
50°	976.1	876.5	721.0	49.8	24.5	13.0	10.0	3.1	3.1	3.1	2.3
52.5°	855.8	809.1	77.4	32.9	19.2	10.0	6.1	2.3	2.3	2.3	2.3
55°	782.3	513.3	46.0	25.3	16.1	9.2	3.8	2.3	2.3	2.3	1.5
57.5°	715.6	69.0	33.7	21.5	14.6	8.4	2.3	2.3	2.3	2.3	1.5
60°	606.8	49.8	27.6	19.2	13.8	7.7	2.3	2.3	2.3	2.3	2.3
62.5°	78.9	39.1	23.8	16.9	10.0	6.1	1.5	2.3	2.3	2.3	2.3
65°	57.5	30.6	21.5	11.5	6.1	2.3	1.5	2.3	2.3	2.3	2.3
67.5°	44.4	25.3	16.1	10.0	5.4	1.5	1.5	2.3	2.3	2.3	2.3
70°	35.2	21.5	13.0	8.4	4.6	1.5	1.5	2.3	2.3	2.3	2.3
72.5°	27.6	15.3	9.2	4.6	3.1	1.5	1.5	2.3	2.3	2.3	2.3
75°	20.7	12.3	6.9	3.8	1.5	1.5	1.5	2.3	2.3	2.3	2.3
77.5°	13.8	7.7	5.4	3.1	3.1	3.1	3.8	3.8	2.3	2.3	2.3
80°	9.2	5.4	3.8	3.8	3.8	3.1	3.8	3.8	2.3	3.8	2.3
82.5°	4.6	3.8	3.8	3.1	3.1	2.3	3.1	3.1	3.1	3.1	2.3
85°	3.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	2.3
87.5°	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	3.1	3.1	2.3
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2571.3	2573.6	2567.4	2600.4	2583.5	2585.1	2592.0	2574.3	2578.2	2565.9	2557.5
5°	2850.2	2854.8	2859.4	2860.9	2864.0	2867.8	2863.2	2860.9	2856.3	2841.0	2824.9
7.5°	2806.5	2801.1	2798.8	2801.9	2807.3	2809.6	2805.7	2811.1	2831.0	2839.4	2844.8
10°	2576.6	2552.1	2569.0	2566.7	2547.5	2611.9	2594.3	2604.2	2611.1	2681.6	2724.5
12.5°	2467.1	2482.4	2453.3	2438.7	2457.9	2470.9	2483.9	2456.3	2494.7	2477.0	2533.7
15°	2375.1	2365.9	2362.9	2363.6	2359.8	2378.2	2382.8	2388.9	2394.3	2418.0	2427.2
17.5°	2333.8	2349.1	2355.2	2359.8	2352.2	2343.7	2335.3	2323.0	2326.9	2320.7	2338.4
20°	1913.1	1861.8	1858.7	1888.6	1855.7	1874.1	1918.5	2215.8	2205.8	2321.5	2282.4
22.5°	1596.7	1548.4	1507.1	1471.1	1522.4	1543.8	1626.6	1720.1	1871.8	1848.0	2012.7
25°	1304.0	1286.4	1275.7	1270.3	1274.1	1272.6	1291.0	1334.7	1403.6	1566.1	1776.0
27.5°	1219.7	1211.3	1207.5	1195.2	1204.4	1201.4	1215.9	1225.1	1245.8	1261.9	1330.1
30°	1153.1	1143.1	1136.2	1123.2	1132.4	1133.2	1137.8	1161.5	1169.9	1183.7	1205.2
32.5°	421.4	248.2	232.9	221.4	242.1	315.7	553.9	968.4	1104.8	1115.5	1140.1
35°	41.4	34.5	30.6	30.6	31.4	34.5	46.0	121.1	221.4	855.8	1071.1
37.5°	16.1	13.8	11.5	10.7	11.5	13.0	17.6	23.0	31.4	65.1	290.4
40°	6.9	6.1	5.4	5.4	5.4	5.4	6.1	7.7	11.5	21.5	33.7
42.5°	4.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.4	6.9	13.8
45°	3.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.8	6.1
47.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1
50°	2.3	2.3	2.3	2.3	1.5	2.3	1.5	2.3	2.3	2.3	2.3
52.5°	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3
55°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3
57.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	2.3	2.3	1.5	2.3	1.5	1.5	2.3	2.3	2.3	1.5	1.5
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	3.1
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.8	4.6	3.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.8	3.8	3.8
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2542.9	2542.2	2558.3	2570.5	2565.9	2570.5	2575.9	2576.6	2578.2	2572.0	2569.7
5°	2794.2	2770.5	2724.5	2691.6	2653.3	2583.5	2549.1	2552.9	2553.7	2551.4	2554.4
7.5°	2842.5	2840.2	2824.1	2817.2	2791.2	2741.4	2661.7	2647.9	2614.2	2592.7	2575.1
10°	2721.4	2776.6	2791.2	2815.7	2831.0	2821.8	2754.4	2744.4	2723.0	2698.5	2703.8
12.5°	2590.4	2635.6	2637.9	2771.2	2801.1	2804.2	2778.1	2791.9	2795.0	2739.8	2707.7
15°	2429.5	2451.0	2496.2	2620.3	2710.7	2767.4	2784.3	2791.9	2754.4	2752.1	2739.1
17.5°	2359.0	2372.8	2393.5	2463.2	2600.4	2683.9	2755.2	2749.8	2764.4	2753.6	2720.7
20°	2270.2	2281.7	2318.4	2353.7	2421.1	2532.2	2665.5	2675.5	2694.6	2692.3	2701.5
22.5°	2268.6	2228.0	2234.2	2261.7	2332.2	2431.8	2573.6	2606.5	2618.8	2627.2	2637.2
25°	1799.7	2122.3	2181.3	2198.9	2244.9	2303.1	2470.1	2482.4	2505.4	2542.9	2570.5
27.5°	1559.2	1778.3	2014.3	2136.9	2166.0	2214.2	2313.8	2332.2	2410.4	2419.6	2462.5
30°	1230.5	1399.8	1752.2	2047.2	2095.5	2129.2	2199.7	2236.5	2270.2	2306.9	2352.2
32.5°	1157.7	1184.5	1379.9	1694.0	2069.4	2044.1	2096.2	2118.5	2155.2	2187.4	2220.4
35°	1091.0	1109.4	1150.8	1387.5	1685.6	1974.4	2009.7	2024.2	2044.9	2069.4	2093.2
37.5°	1021.3	1048.9	1077.2	1140.8	1559.2	1919.3	1918.5	1935.4	1947.6	1968.3	1988.2
40°	185.4	963.1	1009.0	1050.4	1209.0	1530.8	1832.7	1840.3	1848.8	1861.8	1882.5
42.5°	29.9	160.9	945.5	985.3	1030.5	1370.7	1793.6	1762.2	1756.8	1766.0	1784.4
45°	15.3	39.1	190.0	920.2	960.8	1093.3	1466.5	1707.8	1702.4	1684.8	1688.6
47.5°	11.5	24.5	46.7	318.0	899.5	938.6	1353.1	1338.5	1440.4	1635.8	1605.9
50°	10.0	16.9	27.6	65.1	794.5	864.2	1042.0	1217.4	1271.1	1278.0	1512.4
52.5°	9.2	11.5	19.9	42.1	167.0	799.1	847.4	908.7	999.1	1192.9	1188.3
55°	8.4	10.7	16.9	28.3	58.2	720.2	770.0	781.5	800.7	893.4	1015.9
57.5°	4.6	10.0	16.1	24.5	43.7	131.8	698.7	707.9	723.3	727.1	770.8
60°	2.3	9.2	14.6	21.5	32.2	61.3	628.3	639.0	648.2	649.7	663.5
62.5°	1.5	8.4	12.3	19.9	26.8	43.7	148.6	303.4	576.9	576.9	593.0
65°	1.5	6.1	7.7	13.0	24.5	36.0	62.8	72.8	141.7	348.6	520.2
67.5°	1.5	2.3	6.9	10.7	18.4	27.6	46.0	53.6	64.4	73.6	136.4
70°	1.5	1.5	6.1	6.9	11.5	20.7	32.9	37.5	43.7	49.8	57.5
72.5°	1.5	1.5	5.4	5.4	7.7	13.8	25.3	27.6	31.4	35.2	40.6
75°	3.8	3.1	4.6	4.6	5.4	10.7	19.2	21.5	23.0	26.0	29.9
77.5°	3.8	3.8	3.8	3.8	3.8	6.9	12.3	13.8	16.1	17.6	20.7
80°	3.1	3.1	3.1	3.8	3.8	4.6	7.7	8.4	9.2	11.5	12.3
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	5.4	6.9
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	3.1
87.5°	2.3	2.3	2.3	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2569.0	2564.4	2560.5	2562.8	2556.0	2552.9	2555.2	2556.0	2557.5	2561.3	2562.1
5°	2562.1	2560.5	2567.4	2571.3	2569.7	2571.3	2571.3	2568.2	2563.6	2566.7	2559.8
7.5°	2557.5	2547.5	2539.9	2541.4	2533.7	2542.9	2551.4	2563.6	2567.4	2567.4	2559.8
10°	2636.4	2625.7	2582.8	2553.7	2534.5	2517.6	2557.5	2516.9	2536.0	2463.2	2546.8
12.5°	2701.5	2716.1	2696.9	2617.2	2603.5	2552.9	2582.0	2532.2	2517.6	2434.1	2460.9
15°	2727.6	2700.0	2693.9	2671.6	2641.8	2627.2	2549.1	2540.6	2516.9	2526.1	2490.8
17.5°	2704.6	2718.4	2700.0	2685.4	2654.8	2620.3	2573.6	2532.2	2499.3	2425.7	2487.8
20°	2682.4	2700.8	2645.6	2654.8	2657.9	2618.0	2593.5	2559.0	2517.6	2448.7	2395.1
22.5°	2645.6	2632.6	2637.2	2623.4	2611.9	2617.2	2583.5	2559.8	2490.1	2458.6	2385.9
25°	2585.8	2581.2	2593.5	2592.0	2564.4	2555.2	2538.3	2513.0	2485.5	2434.9	2375.1
27.5°	2488.5	2512.3	2533.7	2543.7	2529.1	2504.6	2495.4	2480.9	2461.7	2410.4	2365.9
30°	2385.9	2412.7	2437.2	2458.6	2471.7	2460.9	2452.5	2444.1	2415.0	2381.3	2331.5
32.5°	2268.6	2303.9	2337.6	2363.6	2392.0	2400.4	2394.3	2387.4	2362.9	2332.2	2292.4
35°	2133.0	2181.3	2230.3	2277.1	2289.3	2309.2	2329.2	2317.7	2304.6	2274.0	2237.2
37.5°	2018.1	2052.6	2087.8	2146.8	2189.7	2215.0	2250.2	2254.8	2232.6	2218.1	2169.8
40°	1899.3	1930.8	1982.1	2016.6	2075.6	2104.7	2142.2	2159.1	2153.7	2145.3	2103.1
42.5°	1805.9	1821.2	1854.9	1885.6	1943.8	2003.5	2036.5	2054.9	2074.0	2067.1	2045.7
45°	1706.3	1720.1	1731.6	1758.4	1815.1	1867.9	1908.5	1936.1	1970.6	1986.7	1960.6
47.5°	1607.4	1611.3	1625.1	1647.3	1681.0	1721.6	1789.8	1831.2	1863.3	1894.7	1877.9
50°	1531.6	1517.8	1520.1	1533.9	1561.5	1601.3	1650.3	1708.6	1745.3	1783.7	1787.5
52.5°	1338.5	1450.4	1423.5	1431.2	1445.8	1464.9	1516.3	1573.7	1618.9	1651.9	1684.8
55°	1123.2	1145.4	1360.7	1330.1	1339.3	1356.1	1379.9	1437.3	1481.0	1527.0	1573.0
57.5°	871.1	1036.6	1045.1	1244.3	1239.7	1241.2	1261.1	1294.1	1337.7	1395.2	1434.3
60°	677.3	747.0	882.6	951.6	1126.3	1132.4	1143.9	1163.1	1200.6	1255.0	1317.1
62.5°	597.6	606.8	655.1	758.5	871.9	1009.0	1033.6	1036.6	1053.5	1107.9	1179.9
65°	524.8	531.0	545.5	556.2	651.2	783.8	901.8	920.9	931.7	963.8	1025.1
67.5°	361.6	457.4	470.4	478.1	487.3	548.6	694.9	792.2	804.5	832.8	886.5
70°	69.7	144.8	396.1	404.5	409.1	422.9	446.7	601.4	682.7	709.5	734.0
72.5°	47.5	55.9	67.4	159.4	337.1	344.8	350.1	370.1	507.2	585.4	598.4
75°	34.5	38.3	45.2	55.9	69.0	224.5	278.1	288.1	298.0	411.4	477.3
77.5°	24.5	27.6	30.6	36.0	42.1	54.4	78.1	215.3	225.3	230.6	325.6
80°	13.8	16.9	20.7	23.8	26.8	30.6	39.8	49.8	111.1	162.4	170.9
82.5°	7.7	9.2	10.7	13.0	14.6	18.4	22.2	26.8	35.2	52.1	110.3
85°	3.8	3.8	3.8	5.4	6.1	8.4	10.0	11.5	16.1	22.2	30.6
87.5°	2.3	2.3	3.1	3.1	3.1	3.8	3.8	3.8	4.6	6.9	10.0
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: P1213774

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2562.8	2560.5	2560.5	2569.7	2567.4
5°	2558.3	2556.0	2555.2	2565.1	2560.5
7.5°	2554.4	2546.0	2543.7	2552.9	2549.1
10°	2539.1	2533.0	2536.8	2533.7	2532.2
12.5°	2513.0	2509.2	2493.1	2494.7	2507.7
15°	2466.3	2481.6	2454.1	2478.6	2483.9
17.5°	2380.5	2415.0	2441.8	2456.3	2458.6
20°	2418.8	2430.3	2416.5	2417.3	2426.5
22.5°	2369.0	2374.4	2378.2	2373.6	2393.5
25°	2289.3	2268.6	2313.1	2322.3	2354.4
27.5°	2264.8	2248.0	2268.6	2267.1	2293.9
30°	2244.9	2190.5	2199.7	2214.2	2247.2
32.5°	2216.5	2130.7	2121.5	2153.7	2190.5
35°	2166.7	2085.5	2064.1	2084.8	2139.9
37.5°	2124.6	2022.7	1979.8	2007.4	2079.4
40°	2061.8	1973.7	1907.0	1931.5	2016.6
42.5°	1986.7	1931.5	1828.9	1845.7	1943.0
45°	1910.8	1861.8	1753.0	1761.4	1877.1
47.5°	1833.5	1788.2	1674.1	1675.6	1792.8
50°	1757.6	1697.8	1603.6	1576.8	1703.2
52.5°	1658.8	1603.6	1532.3	1488.7	1618.2
55°	1565.3	1503.2	1451.1	1383.7	1521.6
57.5°	1474.1	1405.2	1369.9	1283.3	1412.1
60°	1349.2	1316.3	1264.2	1181.4	1313.2
62.5°	1221.3	1210.6	1157.7	1071.9	1191.4
65°	1071.9	1097.2	1042.8	969.2	1065.0
67.5°	930.9	976.1	916.3	871.1	943.2
70°	780.7	832.8	799.1	783.0	813.7
72.5°	632.9	683.4	686.5	675.0	685.0
75°	488.8	544.7	575.4	557.8	560.1
77.5°	370.8	397.6	431.4	445.1	442.1
80°	229.1	275.8	303.4	331.8	321.8
82.5°	115.7	154.8	188.5	219.1	204.6
85°	48.3	62.1	86.6	114.2	109.6
87.5°	14.6	24.5	26.0	36.8	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)