

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: P1214125

Luminaire Tested: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214125
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

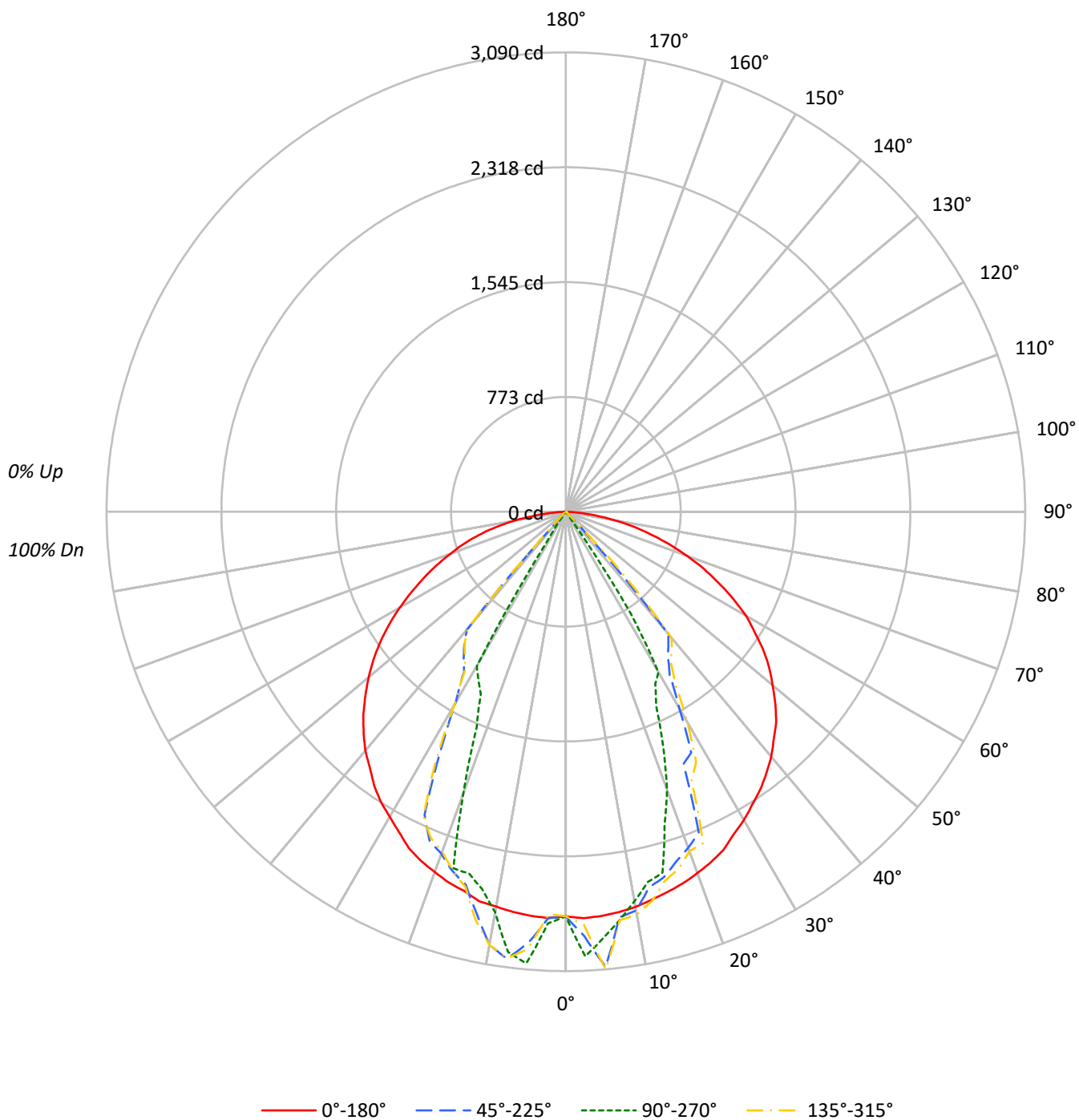
Lumens per Lamp: N/A
Luminaire Lumens: 3868.9 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



TEST NUMBER: P1214125

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21988	21988	21988	21988
5°	22078	22615	22071	23949
10°	22025	20464	22012	21055
15°	21965	19100	21911	19150
20°	21990	15045	21928	15230
25°	22054	10888	21946	10274
30°	21953	9550	21721	9181
35°	22019	210	21695	255
40°	22094	46	21565	46
45°	22172	27	21339	20
50°	22002	21	20993	21
55°	21873	15	20530	15
60°	21460	16	19783	16
65°	20341	25	18893	17
70°	18869	28	17964	28
75°	16690	31	16964	31
80°	13559	36	14334	36
85°	7979	42	8143	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 23940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	7.1
10°-20°	744.6	19.2
20°-30°	947.5	24.5
30°-40°	800.4	20.7
40°-50°	523.3	13.5
50°-60°	329.7	8.5
60°-70°	175.5	4.5
70°-80°	64.0	1.7
80°-90°	11.0	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°	1965.1	50.8
0°-40°	2765.5	71.5
0°-60°	3618.5	93.5
0°-90°	3868.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2721	2721	2721	2721	2721	
5°	2729	2879	2728	3049	2729	260
15°	2648	2513	2641	2519	2648	748
25°	2510	1435	2497	1354	2510	1154
35°	2281	27	2247	33	2281	1427
45°	2001	3	1926	2	2001	1539
55°	1622	2	1522	2	1622	1445
65°	1135	2	1054	2	1135	1124
75°	597	2	607	2	597	634
85°	117	2	119	2	117	148
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2736.5	2738.1	2738.9	2740.6	2743.0	2743.8	2745.5	2743.8	2743.8	2743.8	2743.8
5°	2729.1	2732.4	2734.9	2738.1	2743.8	2744.7	2751.2	2752.0	2755.3	2761.8	2766.7
7.5°	2716.9	2720.2	2725.1	2733.2	2741.4	2750.4	2761.8	2774.1	2791.2	2807.5	2827.9
10°	2698.9	2703.0	2708.7	2716.1	2756.1	2761.8	2787.1	2822.2	2832.0	2883.5	2921.9
12.5°	2672.8	2686.7	2701.4	2707.9	2746.3	2806.7	2891.6	2874.5	2855.7	3023.9	3021.5
15°	2647.5	2666.3	2658.9	2712.0	2747.1	2852.4	2816.5	2893.3	3033.7	2999.4	3001.1
17.5°	2620.5	2624.6	2665.4	2709.5	2772.4	2826.3	2870.4	2975.8	3003.5	3006.0	2975.8
20°	2586.2	2605.8	2665.4	2705.5	2811.6	2836.9	2932.5	2986.4	2974.9	2947.2	2895.7
22.5°	2551.1	2610.7	2671.2	2727.5	2801.8	2869.6	2917.0	2942.3	2882.7	2773.2	2714.4
25°	2509.5	2544.6	2623.8	2706.3	2799.4	2838.6	2866.3	2825.5	2747.9	2649.9	2551.1
27.5°	2445.0	2501.3	2602.6	2695.7	2779.8	2827.1	2782.2	2684.2	2559.3	2494.8	2449.9
30°	2395.1	2468.6	2551.9	2641.8	2729.1	2756.9	2642.6	2530.7	2445.0	2380.4	2370.6
32.5°	2334.7	2439.2	2518.4	2604.2	2677.7	2640.9	2529.9	2385.3	2314.3	2289.8	2299.6
35°	2280.8	2360.0	2463.7	2547.8	2600.9	2518.4	2342.9	2253.0	2218.8	2232.6	2214.7
37.5°	2216.3	2320.8	2416.4	2489.1	2471.1	2347.0	2198.3	2141.2	2145.3	2133.8	2099.5
40°	2149.3	2249.0	2348.6	2417.2	2354.3	2164.9	2066.0	2053.8	2056.2	2019.5	1970.5
42.5°	2070.9	2161.6	2261.2	2323.3	2187.7	2039.9	1972.9	1974.6	1953.3	1901.9	1875.8
45°	2000.7	2084.0	2187.7	2193.4	2026.8	1903.5	1883.9	1862.7	1815.3	1798.2	1778.6
47.5°	1910.9	2003.2	2088.9	2057.9	1869.2	1792.5	1777.8	1731.2	1707.5	1694.5	1678.1
50°	1815.3	1908.4	1986.8	1898.6	1720.6	1702.6	1654.5	1617.7	1601.4	1587.5	1572.8
52.5°	1724.7	1801.5	1881.5	1729.6	1606.3	1589.1	1534.4	1513.2	1496.9	1481.3	1478.1
55°	1621.8	1689.6	1744.3	1568.7	1496.9	1456.8	1417.6	1402.9	1387.4	1380.1	1392.3
57.5°	1505.0	1581.8	1573.6	1410.3	1378.5	1320.5	1305.8	1296.0	1284.5	1289.4	1187.4
60°	1399.7	1458.5	1418.5	1294.3	1240.4	1201.2	1188.2	1181.6	1188.2	1088.6	957.1
62.5°	1269.8	1336.0	1255.1	1158.8	1101.6	1082.8	1071.4	1080.4	984.8	875.4	843.6
65°	1135.1	1207.0	1087.7	1013.4	977.5	961.2	960.3	884.4	790.5	748.0	748.0
67.5°	1005.3	1079.6	926.0	864.0	850.1	851.7	804.4	689.2	663.1	634.5	552.0
70°	867.2	932.6	765.2	727.6	719.4	713.7	598.6	567.5	536.5	460.6	454.0
72.5°	730.1	761.9	614.9	605.9	604.3	502.2	479.4	426.3	390.3	381.4	377.3
75°	596.9	587.1	485.9	494.1	416.5	380.5	343.8	312.8	307.9	304.6	75.9
77.5°	471.2	422.2	383.0	333.2	298.1	253.2	245.8	240.9	158.4	57.2	46.5
80°	343.0	273.6	254.8	216.4	184.6	177.2	181.3	55.5	44.1	36.7	31.8
82.5°	218.0	174.8	142.9	124.9	121.7	53.1	39.2	31.8	27.8	23.7	19.6
85°	116.8	77.6	71.9	60.4	35.9	24.5	20.4	15.5	13.1	10.6	9.8
87.5°	36.7	31.0	25.3	20.4	12.2	8.2	6.5	5.7	4.9	4.1	4.1
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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2742.2	2743.8	2743.0	2745.5	2745.5	2748.7	2751.2	2753.6	2758.5	2761.0	2779.8
5°	2777.3	2781.4	2793.6	2805.1	2819.0	2823.0	2846.7	2852.4	2880.2	2883.5	2974.9
7.5°	2855.7	2871.2	2900.6	2930.0	2959.4	2978.2	3010.9	3031.3	3053.3	3072.9	3145.6
10°	2950.4	2976.6	3005.2	3034.6	3051.7	3087.6	3107.2	3110.5	3104.8	3072.9	2955.3
12.5°	3043.5	3069.7	3057.4	3063.1	3083.5	3019.9	3028.8	2983.1	3015.0	2857.3	2740.6
15°	3030.5	3028.8	2998.6	2900.6	2917.0	2795.3	2746.3	2708.7	2738.9	2722.6	2704.6
17.5°	2991.3	2917.0	2864.7	2747.1	2697.3	2663.0	2663.8	2664.6	2649.9	2665.4	2619.7
20°	2825.5	2742.2	2664.6	2623.0	2608.3	2583.8	2596.0	2583.8	2584.6	2589.5	2519.3
22.5°	2605.0	2579.7	2534.8	2547.8	2542.9	2565.0	2548.7	2523.3	2531.5	2494.8	2441.7
25°	2516.0	2486.6	2485.0	2489.9	2482.5	2472.7	2458.0	2419.6	2417.2	2405.8	2381.3
27.5°	2426.2	2427.8	2432.7	2418.0	2391.9	2372.3	2350.2	2331.4	2338.8	2325.7	2292.2
30°	2364.1	2363.3	2333.9	2320.8	2272.6	2273.5	2267.7	2256.3	2249.0	2249.8	2228.5
32.5°	2275.9	2250.6	2217.1	2200.8	2196.7	2182.0	2170.6	2173.0	2178.7	2158.3	2180.4
35°	2185.3	2133.0	2128.1	2114.2	2101.2	2091.4	2095.4	2079.1	2078.3	2075.8	1896.2
37.5°	2063.6	2038.3	2035.8	2021.1	2012.1	2009.7	1994.2	1996.6	2004.0	2017.0	1616.9
40°	1963.1	1940.3	1934.6	1933.8	1914.2	1912.5	1916.6	1932.1	1942.7	1861.1	1541.0
42.5°	1855.4	1857.0	1839.0	1827.6	1830.0	1837.4	1857.0	1803.1	1562.2	1488.7	1408.7
45°	1763.1	1754.9	1745.1	1741.8	1763.1	1748.4	1532.8	1414.4	1385.8	1382.5	1158.0
47.5°	1666.7	1664.3	1660.2	1662.6	1541.8	1374.4	1325.4	1309.9	1314.8	1311.5	994.6
50°	1569.5	1572.8	1572.8	1373.6	1260.9	1233.1	1237.2	1251.1	1164.5	1086.9	926.9
52.5°	1485.4	1460.1	1251.1	1179.2	1153.9	1166.1	1136.7	1028.1	949.7	904.0	857.4
55°	1329.5	1143.3	1096.7	1085.3	1094.3	985.7	918.7	848.5	828.1	823.2	796.2
57.5°	1046.1	1008.5	1012.6	966.9	863.2	801.9	775.0	765.2	756.2	749.7	65.3
60°	925.2	935.8	856.6	758.6	717.0	708.8	702.3	693.3	691.7	680.2	41.6
62.5°	846.8	744.8	676.2	651.7	641.9	639.4	627.2	623.1	529.2	72.7	31.0
65°	638.6	596.9	583.9	578.2	567.5	567.5	471.2	74.3	60.4	52.3	27.8
67.5°	521.0	517.7	511.2	503.9	343.0	71.9	62.9	54.7	47.4	41.6	24.5
70°	441.0	439.3	400.1	73.5	61.2	53.9	47.4	42.5	39.2	35.1	22.0
72.5°	361.8	73.5	62.1	53.9	46.5	42.5	38.4	34.3	31.0	28.6	18.0
75°	56.3	49.8	44.1	40.0	36.7	32.7	29.4	26.9	26.1	22.9	12.2
77.5°	40.8	35.1	31.8	28.6	25.3	22.9	19.6	17.1	15.5	13.1	9.0
80°	28.6	25.3	22.9	18.8	16.3	13.9	12.2	10.6	9.8	8.2	4.1
82.5°	16.3	13.9	12.2	9.8	9.0	7.3	6.5	5.7	5.7	4.1	4.1
85°	7.3	7.3	5.7	4.9	4.1	4.1	4.1	3.3	3.3	2.4	2.4
87.5°	3.3	3.3	3.3	3.3	3.3	2.4	2.4	2.4	2.4	2.4	1.6
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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2805.9	2816.5	2836.9	2858.2	2834.5	2919.4	2912.9	2941.5	2957.0	2964.3	2981.5
5°	3055.8	3103.1	3118.7	3072.1	3045.2	3017.4	2954.5	2907.2	2912.9	2897.4	2841.0
7.5°	3050.9	2949.6	2813.2	2751.2	2746.3	2738.9	2758.5	2770.0	2771.6	2770.8	2769.2
10°	2792.8	2740.6	2731.6	2723.4	2726.7	2696.5	2682.6	2643.4	2664.6	2653.2	2657.3
12.5°	2714.4	2702.2	2654.0	2587.0	2627.1	2596.8	2579.7	2591.1	2578.1	2565.8	2561.7
15°	2667.9	2588.7	2561.7	2545.4	2534.0	2527.4	2533.1	2520.1	2516.0	2513.5	2519.3
17.5°	2571.5	2539.7	2510.3	2467.0	2467.8	2465.4	2481.7	2506.2	2507.8	2382.1	2268.6
20°	2495.6	2469.5	2431.9	2404.9	2441.7	2376.4	2124.0	2004.0	1985.2	1985.2	1988.5
22.5°	2435.2	2377.2	2379.6	2337.2	1993.4	1923.1	1924.8	1932.1	1898.6	1784.3	1772.1
25°	2352.7	2343.7	2164.9	1870.9	1873.3	1818.6	1734.5	1616.1	1487.9	1487.9	1466.6
27.5°	2290.6	2100.3	1839.0	1826.8	1643.0	1527.1	1455.2	1346.6	1331.9	1318.0	1319.7
30°	2237.5	1777.0	1783.5	1527.1	1391.5	1295.2	1289.4	1271.5	1262.5	1260.0	1251.1
32.5°	1768.8	1730.4	1492.8	1300.1	1247.0	1231.5	1224.1	1203.7	1202.9	1187.4	1079.6
35°	1658.6	1518.9	1249.4	1197.2	1181.6	1166.9	1154.7	775.0	91.5	36.7	31.8
37.5°	1532.8	1269.0	1155.5	1131.8	1117.1	825.6	82.5	28.6	20.4	14.7	13.1
40°	1299.2	1133.5	1097.5	1071.4	441.8	28.6	18.0	13.9	8.2	7.3	6.5
42.5°	1095.9	1068.1	1029.8	313.6	32.7	13.9	9.0	6.5	5.7	5.7	4.9
45°	1025.7	1001.2	414.8	31.0	20.4	6.5	5.7	5.7	4.9	3.3	3.3
47.5°	960.3	845.2	37.6	19.6	13.1	5.7	4.9	3.3	3.3	3.3	2.4
50°	890.9	46.5	26.1	14.7	8.2	3.3	3.3	3.3	3.3	2.4	2.4
52.5°	166.6	32.7	21.2	13.1	4.1	3.3	3.3	3.3	2.4	2.4	2.4
55°	39.2	26.1	19.6	11.4	3.3	3.3	3.3	2.4	2.4	2.4	1.6
57.5°	29.4	19.6	15.5	10.6	3.3	2.4	2.4	2.4	2.4	2.4	1.6
60°	24.5	13.9	12.2	9.8	2.4	2.4	2.4	2.4	2.4	2.4	1.6
62.5°	17.1	11.4	9.0	7.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	13.9	9.0	7.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	12.2	7.3	4.9	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	9.8	2.4	2.4	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	8.2	2.4	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
75°	8.2	4.1	1.6	1.6	2.4	2.4	3.3	3.3	2.4	2.4	2.4
77.5°	5.7	4.1	1.6	1.6	2.4	2.4	3.3	3.3	2.4	2.4	2.4
80°	3.3	4.1	1.6	2.4	2.4	4.9	5.7	3.3	2.4	2.4	2.4
82.5°	3.3	4.1	4.9	4.9	2.4	4.1	4.9	4.1	3.3	2.4	2.4
85°	3.3	2.4	3.3	4.1	2.4	4.1	4.1	3.3	3.3	2.4	2.4
87.5°	1.6	2.4	2.4	3.3	3.3	3.3	4.1	3.3	3.3	3.3	2.4
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2989.6	2992.9	2941.5	2923.5	2939.0	2935.7	2921.9	2870.4	2864.7	2830.4	2780.6
5°	2857.3	2879.4	2852.4	2899.0	2876.9	2899.0	2966.0	2997.0	3047.6	3078.6	3090.1
7.5°	2765.1	2770.0	2770.0	2774.1	2778.1	2779.0	2774.1	2770.8	2756.9	2739.8	2770.8
10°	2653.2	2658.9	2668.7	2667.1	2666.3	2683.4	2687.5	2722.6	2721.0	2727.5	2751.2
12.5°	2595.2	2551.1	2591.1	2580.5	2595.2	2572.3	2614.8	2607.5	2609.9	2629.5	2680.1
15°	2498.9	2512.7	2522.5	2522.5	2528.2	2523.3	2518.4	2551.9	2572.3	2573.2	2569.9
17.5°	2313.5	2208.1	2315.9	2288.2	2509.5	2515.2	2496.4	2480.9	2480.9	2493.1	2519.3
20°	1986.0	1988.5	1989.3	1999.9	2013.0	2012.1	2013.0	2334.7	2487.4	2452.3	2428.6
22.5°	1741.0	1710.8	1767.2	1763.1	1833.3	1910.9	1985.2	1977.8	1982.7	2209.8	2413.9
25°	1395.6	1434.8	1402.9	1416.8	1496.0	1588.3	1645.5	1794.9	1957.4	1946.0	1999.1
27.5°	1313.9	1303.3	1318.0	1318.0	1328.6	1340.9	1372.7	1456.8	1601.4	1753.3	1897.0
30°	1236.4	1245.3	1247.0	1261.7	1269.8	1278.0	1282.9	1314.8	1347.4	1452.8	1630.0
32.5°	928.5	814.2	1071.4	1140.8	1199.6	1213.5	1223.3	1236.4	1260.0	1275.6	1364.6
35°	26.9	26.9	28.6	32.7	41.6	280.9	1069.8	1179.2	1194.7	1214.3	1230.6
37.5°	13.1	9.8	11.4	12.2	14.7	20.4	29.4	91.5	1018.3	1151.4	1169.4
40°	5.7	5.7	5.7	5.7	6.5	8.2	12.2	20.4	31.0	819.1	1104.9
42.5°	4.9	4.9	4.9	4.9	4.9	4.9	5.7	7.3	14.7	35.1	579.8
45°	3.3	3.3	2.4	3.3	3.3	4.1	4.9	4.9	6.5	22.0	40.0
47.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.9	14.7	21.2
50°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	11.4	14.7
52.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.9	13.1
55°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.3	11.4
57.5°	1.6	1.6	1.6	1.6	1.6	2.4	1.6	1.6	2.4	2.4	10.6
60°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	9.8
62.5°	2.4	2.4	1.6	2.4	1.6	1.6	2.4	2.4	2.4	2.4	6.5
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.6	2.4
67.5°	2.4	2.4	2.4	2.4	1.6	2.4	1.6	2.4	2.4	1.6	1.6
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6
75°	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	1.6	1.6	1.6
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.9	4.1	4.1	1.6
80°	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	4.1	4.1	5.7
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	3.3	3.3	4.1
85°	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	3.3	2.4	3.3
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	2.4	2.4	2.4
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2784.7	2756.9	2747.9	2729.1	2727.5	2729.1	2725.1	2719.3	2722.6	2716.9	2712.0
5°	3096.6	3022.3	2974.1	2909.6	2820.6	2801.0	2796.1	2768.3	2758.5	2755.3	2742.2
7.5°	2844.3	2979.8	3061.5	3089.3	2984.7	2960.2	2931.7	2908.8	2886.7	2845.1	2819.8
10°	2732.4	2738.9	2817.3	2908.8	3057.4	3077.8	3093.3	3043.5	3029.7	2923.5	2900.6
12.5°	2706.3	2707.1	2716.1	2771.6	2888.4	2901.4	2956.2	2985.6	3021.5	3041.9	3025.6
15°	2587.0	2653.2	2702.2	2707.1	2717.7	2740.6	2756.9	2859.0	2902.3	3018.2	3011.7
17.5°	2531.5	2552.7	2623.8	2681.8	2672.0	2663.8	2676.9	2690.8	2732.4	2848.4	2846.7
20°	2439.2	2507.0	2545.4	2605.8	2660.5	2663.0	2648.3	2640.1	2623.8	2642.6	2659.7
22.5°	2400.0	2410.7	2482.5	2525.0	2587.0	2609.1	2612.4	2613.2	2604.2	2594.4	2589.5
25°	2396.0	2362.5	2399.2	2452.3	2498.0	2521.7	2548.7	2557.6	2554.4	2554.4	2549.5
27.5°	1960.7	2351.9	2332.3	2367.4	2422.9	2439.2	2453.1	2480.9	2498.0	2510.3	2516.0
30°	1867.6	1937.8	2280.0	2284.9	2341.2	2339.6	2355.1	2378.0	2400.0	2428.6	2436.0
32.5°	1652.0	1824.3	2087.3	2202.4	2261.2	2266.9	2275.1	2281.6	2302.0	2333.9	2361.7
35°	1323.7	1661.8	1788.4	2163.2	2173.8	2185.3	2190.2	2205.7	2212.2	2225.3	2249.8
37.5°	1198.0	1373.6	1715.7	1870.9	2073.4	2083.2	2109.3	2115.9	2126.5	2137.1	2155.9
40°	1125.3	1173.5	1428.3	1670.8	1992.5	1999.1	2008.1	2024.4	2025.2	2037.5	2054.6
42.5°	1067.3	1098.4	1172.7	1595.7	1935.4	1934.6	1913.3	1924.0	1928.9	1941.9	1965.6
45°	852.5	1030.6	1077.9	1303.3	1541.0	1652.0	1865.2	1830.0	1829.2	1834.1	1859.4
47.5°	43.3	969.3	1002.8	1075.5	1455.2	1459.3	1487.1	1720.6	1756.5	1745.1	1747.6
50°	29.4	67.0	934.2	967.7	1254.3	1355.6	1376.0	1386.6	1521.4	1671.6	1647.1
52.5°	22.9	38.4	572.4	898.3	1019.1	1093.5	1224.9	1300.1	1308.2	1368.7	1573.6
55°	20.4	29.4	62.1	828.9	866.4	882.8	959.5	1091.0	1197.2	1229.0	1231.5
57.5°	18.0	26.9	42.5	374.8	788.0	791.3	804.4	850.1	945.6	1033.0	1131.8
60°	16.3	23.7	33.5	64.5	716.2	724.3	726.8	739.0	750.5	810.1	923.6
62.5°	9.8	18.8	29.4	46.5	566.7	650.8	650.0	658.2	668.8	675.3	698.2
65°	8.2	14.7	25.3	39.2	69.4	86.6	525.9	584.7	591.2	600.2	604.3
67.5°	7.3	13.1	18.8	31.0	52.3	59.6	68.6	84.9	463.8	522.6	530.8
70°	6.5	9.0	15.5	26.1	42.5	45.7	51.4	58.8	69.4	85.7	419.7
72.5°	4.1	6.5	10.6	18.8	32.7	36.7	40.0	44.9	49.8	59.6	68.6
75°	1.6	4.9	9.0	13.9	25.3	27.8	30.2	33.5	37.6	44.1	49.0
77.5°	1.6	4.1	7.3	9.8	16.3	18.8	22.0	24.5	27.8	31.0	35.9
80°	5.7	3.3	4.9	7.3	11.4	12.2	13.9	15.5	18.0	20.4	23.7
82.5°	4.1	4.9	5.7	4.9	5.7	7.3	8.2	9.8	10.6	12.2	13.1
85°	3.3	3.3	4.1	4.1	4.1	4.1	4.1	4.1	4.9	5.7	7.3
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2712.0	2710.4	2705.5	2705.5	2704.6	2707.9	2710.4	2712.8	2712.0	2716.9	2712.0
5°	2732.4	2728.3	2721.0	2714.4	2712.0	2713.6	2711.2	2713.6	2710.4	2714.4	2707.1
7.5°	2788.7	2774.9	2746.3	2734.9	2720.2	2719.3	2712.0	2710.4	2705.5	2705.5	2696.5
10°	2888.4	2821.4	2813.2	2779.0	2766.7	2707.1	2720.2	2698.1	2695.7	2685.0	2681.0
12.5°	2970.0	2917.8	2902.3	2872.0	2837.7	2716.9	2743.8	2696.5	2694.0	2672.8	2650.7
15°	2971.7	3001.9	2959.4	2876.1	2868.8	2785.5	2730.8	2714.4	2693.2	2629.5	2640.1
17.5°	2876.1	2945.5	2966.0	2948.0	2895.7	2839.4	2762.6	2730.0	2666.3	2637.7	2618.1
20°	2721.0	2791.2	2878.6	2884.3	2917.0	2876.9	2776.5	2723.4	2646.7	2596.8	2580.5
22.5°	2597.7	2649.1	2749.6	2796.1	2836.1	2850.0	2786.3	2707.9	2612.4	2564.2	2554.4
25°	2532.3	2543.8	2574.0	2628.7	2716.9	2780.6	2789.6	2706.3	2656.5	2551.1	2495.6
27.5°	2508.6	2498.9	2486.6	2514.4	2580.5	2658.1	2709.5	2723.4	2599.3	2498.9	2443.3
30°	2448.2	2453.9	2435.2	2425.4	2468.6	2548.7	2640.1	2663.0	2567.4	2463.7	2400.0
32.5°	2373.9	2383.7	2387.0	2369.8	2360.8	2416.4	2515.2	2569.9	2565.0	2413.9	2342.9
35°	2280.8	2308.6	2315.9	2316.7	2302.0	2293.1	2350.2	2463.7	2507.0	2391.1	2288.2
37.5°	2182.8	2191.0	2231.0	2241.6	2241.6	2214.7	2257.1	2347.8	2408.2	2339.6	2221.2
40°	2060.3	2086.5	2124.0	2142.8	2161.6	2164.0	2140.4	2204.1	2303.7	2286.5	2158.3
42.5°	1971.3	1988.5	2011.3	2036.6	2075.0	2084.8	2060.3	2071.8	2175.5	2220.4	2076.7
45°	1867.6	1890.5	1897.0	1924.8	1964.8	1993.4	1992.5	1968.9	2052.2	2107.7	2017.0
47.5°	1761.4	1783.5	1794.9	1808.8	1838.2	1875.0	1895.4	1884.8	1901.1	2009.7	1937.8
50°	1652.0	1664.3	1687.1	1702.6	1722.2	1743.5	1792.5	1802.3	1779.4	1866.0	1850.5
52.5°	1548.3	1552.4	1567.9	1583.4	1609.6	1625.1	1664.3	1693.7	1692.0	1717.3	1753.3
55°	1467.5	1449.5	1452.8	1465.0	1482.2	1505.8	1527.9	1573.6	1589.1	1594.0	1651.2
57.5°	1146.5	1331.1	1347.4	1346.6	1367.0	1377.6	1398.0	1428.3	1483.8	1471.5	1535.2
60°	1042.0	1062.4	1216.8	1234.7	1242.1	1251.9	1276.4	1304.1	1345.0	1371.1	1398.9
62.5°	794.6	918.7	965.2	1101.6	1122.8	1128.6	1144.9	1158.0	1200.4	1260.0	1248.6
65°	614.9	668.0	810.1	865.6	981.6	996.3	1019.1	1033.0	1045.3	1113.9	1117.1
67.5°	531.6	539.8	578.2	685.1	758.6	872.1	886.0	898.3	917.1	966.1	996.3
70°	454.0	463.8	474.5	483.4	579.0	654.1	759.5	763.5	775.8	808.5	877.0
72.5°	85.7	387.9	394.4	400.1	410.8	460.6	561.0	642.7	647.6	663.1	726.0
75°	58.0	67.8	93.1	320.1	330.7	334.0	351.1	453.2	528.4	531.6	559.4
77.5°	41.6	46.5	56.3	67.0	170.7	256.4	260.5	279.3	356.9	413.2	418.1
80°	28.6	31.8	37.6	42.5	52.3	68.6	189.5	195.2	205.0	282.5	297.2
82.5°	16.3	18.8	22.0	26.9	31.0	39.2	50.6	65.3	133.1	142.1	188.6
85°	8.2	9.0	10.6	13.1	15.5	18.8	25.3	31.0	42.5	76.8	79.2
87.5°	4.1	4.1	4.1	4.1	6.5	7.3	9.0	11.4	14.7	22.0	28.6
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2712.8	2724.2	2734.0	2736.5	2736.5	2738.1	2740.6	2742.2	2743.8	2745.5	2743.8
5°	2707.9	2720.2	2728.3	2730.8	2730.8	2735.7	2739.8	2744.7	2747.1	2747.1	2745.5
7.5°	2695.7	2704.6	2715.3	2721.8	2722.6	2730.8	2738.1	2737.3	2740.6	2742.2	2746.3
10°	2679.3	2679.3	2697.3	2702.2	2706.3	2715.3	2717.7	2722.6	2734.0	2735.7	2746.3
12.5°	2671.2	2663.0	2684.2	2686.7	2700.6	2689.1	2703.8	2708.7	2697.3	2712.8	2692.4
15°	2634.4	2644.2	2640.9	2648.3	2672.8	2659.7	2699.7	2686.7	2716.1	2681.0	2743.0
17.5°	2604.2	2602.6	2615.6	2622.2	2627.1	2654.8	2665.4	2680.1	2691.6	2681.8	2706.3
20°	2582.1	2569.1	2578.9	2586.2	2603.4	2624.6	2631.1	2609.1	2647.5	2712.8	2728.3
22.5°	2540.5	2531.5	2542.9	2542.9	2569.1	2565.8	2590.3	2576.4	2612.4	2688.3	2767.5
25°	2484.2	2485.0	2497.2	2511.9	2516.8	2553.6	2566.6	2584.6	2629.5	2720.2	2768.3
27.5°	2427.0	2422.1	2429.4	2459.7	2485.0	2511.9	2516.0	2577.2	2638.5	2700.6	2743.0
30°	2369.8	2364.9	2369.8	2391.9	2422.1	2440.1	2485.0	2566.6	2623.8	2666.3	2706.3
32.5°	2308.6	2303.7	2315.1	2331.4	2384.5	2387.0	2476.0	2552.7	2597.7	2628.7	2621.3
35°	2243.2	2236.7	2247.3	2272.6	2321.6	2339.6	2432.7	2489.9	2540.5	2555.2	2520.9
37.5°	2164.9	2153.4	2166.5	2201.6	2253.0	2305.3	2382.9	2449.0	2476.0	2436.8	2396.0
40°	2083.2	2075.0	2097.9	2115.9	2176.3	2249.0	2338.0	2384.5	2367.4	2322.5	2277.5
42.5°	2010.5	1993.4	2013.8	2048.1	2116.7	2199.2	2271.0	2297.1	2256.3	2190.2	2137.9
45°	1921.5	1901.1	1925.6	1971.3	2044.8	2138.7	2195.1	2186.1	2116.7	2059.5	1987.6
47.5°	1828.4	1803.9	1828.4	1883.1	1965.6	2065.2	2106.1	2065.2	1977.8	1906.0	1848.0
50°	1736.9	1708.4	1732.0	1814.5	1895.4	1972.1	1971.3	1892.1	1839.8	1761.4	1710.8
52.5°	1646.3	1605.5	1629.2	1719.0	1799.8	1887.2	1822.7	1749.2	1686.3	1617.7	1601.4
55°	1534.4	1490.3	1522.2	1652.8	1714.9	1766.3	1663.5	1598.9	1536.9	1502.6	1482.2
57.5°	1428.3	1380.1	1407.8	1562.2	1607.9	1621.0	1526.3	1434.8	1398.0	1386.6	1357.2
60°	1318.8	1264.1	1290.3	1468.3	1500.1	1447.0	1354.0	1282.9	1275.6	1252.7	1229.8
62.5°	1214.3	1153.9	1170.2	1351.5	1366.2	1269.8	1184.1	1165.3	1147.3	1124.5	1112.2
65°	1094.3	1031.4	1054.3	1227.4	1213.5	1089.4	1041.2	1037.1	1013.4	994.6	1012.6
67.5°	984.0	909.7	941.6	1091.8	1028.9	927.7	908.1	898.3	879.5	890.1	701.5
70°	863.2	782.3	825.6	945.6	852.5	785.6	778.2	763.5	764.4	607.6	512.0
72.5°	728.4	658.2	721.1	785.6	674.5	654.9	644.3	642.7	518.6	421.4	397.7
75°	610.0	539.0	606.7	631.2	537.3	524.3	523.5	432.8	340.5	325.0	317.7
77.5°	476.1	421.4	485.9	449.1	412.4	397.7	356.9	267.9	256.4	245.8	92.3
80°	320.9	325.0	362.6	309.5	294.0	250.7	197.6	189.5	163.3	65.3	51.4
82.5°	195.2	245.0	231.1	193.5	189.5	136.4	124.9	63.7	47.4	37.6	32.7
85°	101.3	124.1	119.2	105.3	78.4	70.2	39.2	30.2	24.5	18.8	15.5
87.5°	34.3	45.7	44.1	35.1	26.9	21.2	13.9	11.4	8.2	6.5	5.7
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2742.2	2742.2	2740.6	2742.2	2743.0	2741.4	2741.4	2743.0	2743.8	2744.7	2748.7
5°	2746.3	2747.9	2750.4	2755.3	2756.1	2765.9	2770.0	2772.4	2774.9	2775.7	2770.0
7.5°	2755.3	2761.0	2765.9	2765.1	2759.4	2743.8	2738.9	2734.9	2742.2	2761.0	2783.0
10°	2763.4	2737.3	2688.3	2755.3	2734.9	2753.6	2809.2	2821.4	2859.0	2912.1	2927.6
12.5°	2707.1	2779.0	2794.5	2719.3	2858.2	2806.7	2868.0	2921.9	2937.4	2991.3	2958.6
15°	2767.5	2802.6	2826.3	2901.4	2893.3	2937.4	2954.5	2943.9	2946.4	2960.2	2997.0
17.5°	2766.7	2836.9	2852.4	2903.1	2937.4	2938.2	2933.3	2928.4	2941.5	2952.1	2930.0
20°	2814.1	2836.9	2867.1	2887.6	2894.1	2902.3	2917.8	2905.5	2881.0	2857.3	2847.5
22.5°	2790.4	2841.8	2868.0	2871.2	2867.1	2841.8	2819.0	2784.7	2773.2	2761.0	2765.1
25°	2795.3	2819.0	2815.7	2802.6	2785.5	2738.1	2726.7	2712.0	2689.9	2636.9	2588.7
27.5°	2760.2	2747.9	2733.2	2701.4	2670.3	2645.0	2616.4	2569.1	2529.9	2472.7	2451.5
30°	2701.4	2652.4	2616.4	2597.7	2567.4	2525.0	2481.7	2423.7	2373.9	2362.5	2351.9
32.5°	2588.7	2540.5	2511.1	2465.4	2413.9	2363.3	2313.5	2290.6	2280.0	2281.6	2271.8
35°	2473.5	2431.1	2387.0	2318.4	2280.0	2229.4	2211.4	2206.5	2196.7	2186.1	2174.7
37.5°	2351.0	2301.2	2235.1	2194.3	2155.9	2135.5	2126.5	2119.1	2102.0	2083.2	2070.1
40°	2232.6	2142.8	2106.1	2066.0	2054.6	2045.6	2032.6	2014.6	1990.9	1987.6	1981.9
42.5°	2074.2	2009.7	1977.8	1969.7	1955.8	1940.3	1928.9	1909.3	1899.5	1906.0	1910.9
45°	1924.0	1891.3	1880.7	1870.9	1844.7	1822.7	1815.3	1808.8	1817.0	1852.9	1767.2
47.5°	1802.3	1789.2	1776.1	1759.8	1735.3	1719.0	1726.3	1732.9	1740.2	1476.4	1347.4
50°	1696.9	1679.0	1658.6	1640.6	1625.9	1624.3	1662.6	1547.5	1296.0	1289.4	1158.8
52.5°	1581.8	1554.8	1542.6	1532.0	1538.5	1563.0	1293.5	1200.4	1151.4	1000.4	933.4
55°	1457.7	1434.0	1434.0	1443.8	1408.7	1141.6	1127.7	975.0	882.8	856.6	846.0
57.5°	1333.5	1331.1	1345.0	1229.8	1036.3	993.8	835.4	801.9	787.2	784.0	766.8
60°	1220.0	1242.9	1040.4	957.1	832.1	750.5	727.6	723.5	708.0	702.3	686.8
62.5°	1129.4	936.7	872.1	712.1	670.4	659.8	647.6	641.9	628.0	554.5	162.5
65°	815.8	770.9	625.5	598.6	595.3	579.8	574.9	516.9	121.7	81.7	69.4
67.5°	615.7	546.3	527.5	522.6	507.1	476.1	141.3	80.8	69.4	60.4	53.1
70°	472.8	460.6	446.7	435.3	128.2	80.0	69.4	58.8	50.6	44.9	40.8
72.5°	387.1	378.9	220.5	84.1	68.6	58.0	51.4	44.9	39.2	35.9	32.7
75°	303.0	84.1	69.4	58.0	49.8	42.5	37.6	33.5	30.2	27.8	25.3
77.5°	68.6	55.5	47.4	40.0	35.9	31.8	28.6	24.5	22.0	19.6	16.3
80°	42.5	36.7	31.0	28.6	24.5	20.4	18.0	16.3	13.1	12.2	10.6
82.5°	27.8	22.0	19.6	16.3	13.1	12.2	10.6	8.2	7.3	6.5	5.7
85°	12.2	10.6	9.0	7.3	5.7	4.9	4.1	3.3	3.3	3.3	3.3
87.5°	4.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2750.4	2765.1	2779.0	2774.9	2760.2	2737.3	2730.8	2721.8	2728.3	2742.2	2747.9
5°	2770.0	2761.8	2791.2	2834.5	2904.7	2911.2	2960.2	2971.7	3010.9	3035.4	3034.6
7.5°	2797.7	2913.7	2961.9	3014.1	3037.8	3032.1	3039.5	3033.7	3024.8	3020.7	3015.8
10°	2939.0	3027.2	3045.2	3045.2	3008.4	2958.6	2937.4	2900.6	2827.1	2828.8	2816.5
12.5°	3021.5	3052.5	3010.1	2974.1	2826.3	2769.2	2707.1	2677.7	2660.5	2634.4	2644.2
15°	2978.2	2934.1	2908.8	2792.8	2702.2	2599.3	2600.9	2583.0	2564.2	2565.8	2553.6
17.5°	2914.5	2879.4	2699.7	2619.7	2575.6	2535.6	2528.2	2504.6	2492.3	2488.2	2487.4
20°	2827.1	2700.6	2566.6	2547.0	2494.0	2448.2	2440.9	2448.2	2485.8	2418.8	2191.8
22.5°	2725.1	2542.9	2503.7	2448.2	2412.3	2394.3	2439.2	2235.1	1926.4	1964.0	1924.0
25°	2551.9	2472.7	2405.8	2363.3	2359.2	2249.0	1874.1	1834.9	1636.5	1530.3	1411.1
27.5°	2425.4	2391.1	2320.8	2313.5	2260.4	1839.0	1643.9	1428.3	1349.1	1336.8	1310.7
30°	2348.6	2299.6	2257.1	2071.8	1803.9	1480.5	1318.8	1288.6	1274.7	1260.0	1237.2
32.5°	2256.3	2209.8	2230.2	1741.8	1438.1	1274.7	1242.1	1220.0	1194.7	1184.9	1102.4
35°	2162.4	2141.2	1742.7	1464.2	1236.4	1197.2	1172.7	1149.8	914.6	221.3	75.1
37.5°	2062.0	2057.1	1566.3	1215.1	1158.0	1121.2	1051.8	217.2	51.4	35.1	26.1
40°	1983.6	1567.1	1238.0	1139.2	1092.6	1034.7	145.4	35.9	22.9	13.9	9.0
42.5°	1931.3	1409.5	1108.2	1069.0	967.7	107.0	36.7	15.5	9.0	7.3	5.7
45°	1488.7	1113.0	1035.5	994.6	122.5	36.7	21.2	7.3	5.7	4.9	3.3
47.5°	1373.6	1011.0	965.2	217.2	40.8	19.6	14.7	4.9	3.3	3.3	3.3
50°	1040.4	934.2	768.4	53.1	26.1	13.9	10.6	3.3	3.3	3.3	2.4
52.5°	912.2	862.3	82.5	35.1	20.4	10.6	6.5	2.4	2.4	2.4	2.4
55°	833.8	547.1	49.0	26.9	17.1	9.8	4.1	2.4	2.4	2.4	1.6
57.5°	762.7	73.5	35.9	22.9	15.5	9.0	2.4	2.4	2.4	2.4	1.6
60°	646.8	53.1	29.4	20.4	14.7	8.2	2.4	2.4	2.4	2.4	2.4
62.5°	84.1	41.6	25.3	18.0	10.6	6.5	1.6	2.4	2.4	2.4	2.4
65°	61.2	32.7	22.9	12.2	6.5	2.4	1.6	2.4	2.4	2.4	2.4
67.5°	47.4	26.9	17.1	10.6	5.7	1.6	1.6	2.4	2.4	2.4	2.4
70°	37.6	22.9	13.9	9.0	4.9	1.6	1.6	2.4	2.4	2.4	2.4
72.5°	29.4	16.3	9.8	4.9	3.3	1.6	1.6	2.4	2.4	2.4	2.4
75°	22.0	13.1	7.3	4.1	1.6	1.6	1.6	2.4	2.4	2.4	2.4
77.5°	14.7	8.2	5.7	3.3	3.3	3.3	4.1	4.1	2.4	2.4	2.4
80°	9.8	5.7	4.1	4.1	4.1	3.3	4.1	4.1	2.4	4.1	2.4
82.5°	4.9	4.1	4.1	3.3	3.3	2.4	3.3	3.3	3.3	3.3	2.4
85°	3.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	2.4
87.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.3	3.3	2.4
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2740.6	2743.0	2736.5	2771.6	2753.6	2755.3	2762.6	2743.8	2747.9	2734.9	2725.9
5°	3037.8	3042.7	3047.6	3049.3	3052.5	3056.6	3051.7	3049.3	3044.4	3028.0	3010.9
7.5°	2991.3	2985.6	2983.1	2986.4	2992.1	2994.5	2990.5	2996.2	3017.4	3026.4	3032.1
10°	2746.3	2720.2	2738.1	2735.7	2715.3	2783.8	2765.1	2775.7	2783.0	2858.2	2903.9
12.5°	2629.5	2645.8	2614.8	2599.3	2619.7	2633.6	2647.5	2618.1	2658.9	2640.1	2700.6
15°	2531.5	2521.7	2518.4	2519.3	2515.2	2534.8	2539.7	2546.2	2551.9	2577.2	2587.0
17.5°	2487.4	2503.7	2510.3	2515.2	2507.0	2498.0	2489.1	2476.0	2480.1	2473.5	2492.3
20°	2039.1	1984.4	1981.1	2013.0	1977.8	1997.4	2044.8	2361.7	2351.0	2474.4	2432.7
22.5°	1701.8	1650.4	1606.3	1567.9	1622.6	1645.5	1733.7	1833.3	1995.0	1969.7	2145.3
25°	1389.9	1371.1	1359.7	1354.0	1358.0	1356.4	1376.0	1422.5	1496.0	1669.2	1892.9
27.5°	1300.1	1291.1	1287.0	1273.9	1283.7	1280.5	1296.0	1305.8	1327.8	1345.0	1417.6
30°	1229.0	1218.4	1211.0	1197.2	1207.0	1207.8	1212.7	1238.0	1247.0	1261.7	1284.5
32.5°	449.1	264.6	248.3	236.0	258.1	336.4	590.4	1032.2	1177.6	1189.0	1215.1
35°	44.1	36.7	32.7	32.7	33.5	36.7	49.0	129.0	236.0	912.2	1141.6
37.5°	17.1	14.7	12.2	11.4	12.2	13.9	18.8	24.5	33.5	69.4	309.5
40°	7.3	6.5	5.7	5.7	5.7	5.7	6.5	8.2	12.2	22.9	35.9
42.5°	4.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.7	7.3	14.7
45°	3.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	4.1	6.5
47.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3
50°	2.4	2.4	2.4	2.4	1.6	2.4	1.6	2.4	2.4	2.4	2.4
52.5°	2.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4
55°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
57.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	2.4	2.4	1.6	2.4	1.6	1.6	2.4	2.4	2.4	1.6	1.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.9	4.9	3.3
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.9	4.1
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	4.1
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	3.3
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	3.3
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2710.4	2709.5	2726.7	2739.8	2734.9	2739.8	2745.5	2746.3	2747.9	2741.4	2738.9
5°	2978.2	2952.9	2903.9	2868.8	2827.9	2753.6	2716.9	2721.0	2721.8	2719.3	2722.6
7.5°	3029.7	3027.2	3010.1	3002.7	2974.9	2921.9	2836.9	2822.2	2786.3	2763.4	2744.7
10°	2900.6	2959.4	2974.9	3001.1	3017.4	3007.6	2935.7	2925.1	2902.3	2876.1	2881.8
12.5°	2761.0	2809.2	2811.6	2953.7	2985.6	2988.8	2961.1	2975.8	2979.0	2920.2	2885.9
15°	2589.5	2612.4	2660.5	2792.8	2889.2	2949.6	2967.6	2975.8	2935.7	2933.3	2919.4
17.5°	2514.4	2529.1	2551.1	2625.4	2771.6	2860.6	2936.6	2930.8	2946.4	2934.9	2899.8
20°	2419.6	2431.9	2471.1	2508.6	2580.5	2698.9	2841.0	2851.6	2872.0	2869.6	2879.4
22.5°	2418.0	2374.7	2381.3	2410.7	2485.8	2591.9	2743.0	2778.1	2791.2	2800.2	2810.8
25°	1918.2	2262.0	2324.9	2343.7	2392.7	2454.8	2632.8	2645.8	2670.3	2710.4	2739.8
27.5°	1661.8	1895.4	2146.9	2277.5	2308.6	2360.0	2466.2	2485.8	2569.1	2578.9	2624.6
30°	1311.5	1492.0	1867.6	2182.0	2233.4	2269.4	2344.5	2383.7	2419.6	2458.8	2507.0
32.5°	1233.9	1262.5	1470.7	1805.5	2205.7	2178.7	2234.3	2257.9	2297.1	2331.4	2366.6
35°	1162.9	1182.5	1226.6	1478.9	1796.6	2104.4	2142.0	2157.5	2179.6	2205.7	2231.0
37.5°	1088.6	1117.9	1148.2	1215.9	1661.8	2045.6	2044.8	2062.8	2075.8	2097.9	2119.1
40°	197.6	1026.5	1075.5	1119.6	1288.6	1631.6	1953.3	1961.5	1970.5	1984.4	2006.4
42.5°	31.8	171.5	1007.7	1050.2	1098.4	1460.9	1911.7	1878.2	1872.5	1882.3	1901.9
45°	16.3	41.6	202.5	980.8	1024.0	1165.3	1563.0	1820.2	1814.5	1795.7	1799.8
47.5°	12.2	26.1	49.8	338.9	958.7	1000.4	1442.1	1426.6	1535.2	1743.5	1711.6
50°	10.6	18.0	29.4	69.4	846.8	921.1	1110.6	1297.6	1354.8	1362.1	1612.0
52.5°	9.8	12.2	21.2	44.9	178.0	851.7	903.2	968.5	1064.9	1271.5	1266.6
55°	9.0	11.4	18.0	30.2	62.1	767.6	820.7	833.0	853.4	952.2	1082.8
57.5°	4.9	10.6	17.1	26.1	46.5	140.5	744.8	754.6	770.9	775.0	821.5
60°	2.4	9.8	15.5	22.9	34.3	65.3	669.6	681.1	690.9	692.5	707.2
62.5°	1.6	9.0	13.1	21.2	28.6	46.5	158.4	323.4	614.9	614.9	632.1
65°	1.6	6.5	8.2	13.9	26.1	38.4	67.0	77.6	151.1	371.6	554.5
67.5°	1.6	2.4	7.3	11.4	19.6	29.4	49.0	57.2	68.6	78.4	145.4
70°	1.6	1.6	6.5	7.3	12.2	22.0	35.1	40.0	46.5	53.1	61.2
72.5°	1.6	1.6	5.7	5.7	8.2	14.7	26.9	29.4	33.5	37.6	43.3
75°	4.1	3.3	4.9	4.9	5.7	11.4	20.4	22.9	24.5	27.8	31.8
77.5°	4.1	4.1	4.1	4.1	4.1	7.3	13.1	14.7	17.1	18.8	22.0
80°	3.3	3.3	3.3	4.1	4.1	4.9	8.2	9.0	9.8	12.2	13.1
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	5.7	7.3
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	3.3	3.3
87.5°	2.4	2.4	2.4	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2738.1	2733.2	2729.1	2731.6	2724.2	2721.0	2723.4	2724.2	2725.9	2730.0	2730.8
5°	2730.8	2729.1	2736.5	2740.6	2738.9	2740.6	2740.6	2737.3	2732.4	2735.7	2728.3
7.5°	2725.9	2715.3	2707.1	2708.7	2700.6	2710.4	2719.3	2732.4	2736.5	2736.5	2728.3
10°	2810.0	2798.5	2752.8	2721.8	2701.4	2683.4	2725.9	2682.6	2703.0	2625.4	2714.4
12.5°	2879.4	2894.9	2874.5	2789.6	2774.9	2721.0	2752.0	2698.9	2683.4	2594.4	2623.0
15°	2907.2	2877.8	2871.2	2847.5	2815.7	2800.2	2716.9	2707.9	2682.6	2692.4	2654.8
17.5°	2882.7	2897.4	2877.8	2862.2	2829.6	2792.8	2743.0	2698.9	2663.8	2585.4	2651.6
20°	2859.0	2878.6	2819.8	2829.6	2832.8	2790.4	2764.3	2727.5	2683.4	2609.9	2552.7
22.5°	2819.8	2805.9	2810.8	2796.1	2783.8	2789.6	2753.6	2728.3	2654.0	2620.5	2542.9
25°	2756.1	2751.2	2764.3	2762.6	2733.2	2723.4	2705.5	2678.5	2649.1	2595.2	2531.5
27.5°	2652.4	2677.7	2700.6	2711.2	2695.7	2669.5	2659.7	2644.2	2623.8	2569.1	2521.7
30°	2542.9	2571.5	2597.7	2620.5	2634.4	2623.0	2614.0	2605.0	2574.0	2538.0	2485.0
32.5°	2418.0	2455.6	2491.5	2519.3	2549.5	2558.5	2551.9	2544.6	2518.4	2485.8	2443.3
35°	2273.5	2324.9	2377.2	2427.0	2440.1	2461.3	2482.5	2470.3	2456.4	2423.7	2384.5
37.5°	2151.0	2187.7	2225.3	2288.2	2333.9	2360.8	2398.4	2403.3	2379.6	2364.1	2312.7
40°	2024.4	2057.9	2112.6	2149.3	2212.2	2243.2	2283.3	2301.2	2295.5	2286.5	2241.6
42.5°	1924.8	1941.1	1977.0	2009.7	2071.8	2135.5	2170.6	2190.2	2210.6	2203.2	2180.4
45°	1818.6	1833.3	1845.6	1874.1	1934.6	1990.9	2034.2	2063.6	2100.3	2117.5	2089.7
47.5°	1713.3	1717.3	1732.0	1755.7	1791.7	1834.9	1907.6	1951.7	1986.0	2019.5	2001.5
50°	1632.4	1617.7	1620.2	1634.9	1664.3	1706.7	1759.0	1821.1	1860.3	1901.1	1905.2
52.5°	1426.6	1545.9	1517.3	1525.4	1541.0	1561.4	1616.1	1677.3	1725.5	1760.6	1795.7
55°	1197.2	1220.8	1450.3	1417.6	1427.4	1445.4	1470.7	1532.0	1578.5	1627.5	1676.5
57.5°	928.5	1104.9	1113.9	1326.2	1321.3	1322.9	1344.2	1379.3	1425.8	1487.1	1528.7
60°	721.9	796.2	940.7	1014.2	1200.4	1207.0	1219.2	1239.6	1279.6	1337.6	1403.8
62.5°	637.0	646.8	698.2	808.5	929.3	1075.5	1101.6	1104.9	1122.8	1180.8	1257.6
65°	559.4	565.9	581.4	592.9	694.1	835.4	961.2	981.6	993.0	1027.3	1092.6
67.5°	385.4	487.5	501.4	509.6	519.4	584.7	740.7	844.4	857.4	887.7	944.8
70°	74.3	154.3	422.2	431.2	436.1	450.8	476.1	641.0	727.6	756.2	782.3
72.5°	50.6	59.6	71.9	169.9	359.3	367.5	373.2	394.4	540.6	623.9	637.8
75°	36.7	40.8	48.2	59.6	73.5	239.3	296.4	307.0	317.7	438.5	508.8
77.5°	26.1	29.4	32.7	38.4	44.9	58.0	83.3	229.5	240.1	245.8	347.1
80°	14.7	18.0	22.0	25.3	28.6	32.7	42.5	53.1	118.4	173.1	182.1
82.5°	8.2	9.8	11.4	13.9	15.5	19.6	23.7	28.6	37.6	55.5	117.6
85°	4.1	4.1	4.1	5.7	6.5	9.0	10.6	12.2	17.1	23.7	32.7
87.5°	2.4	2.4	3.3	3.3	3.3	4.1	4.1	4.1	4.9	7.3	10.6
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: P1214125

CATALOG NUMBER: 4SNLED-LD5-42SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2721.0	2721.0	2721.0	2721.0	2721.0
2.5°	2731.6	2729.1	2729.1	2738.9	2736.5
5°	2726.7	2724.2	2723.4	2734.0	2729.1
7.5°	2722.6	2713.6	2711.2	2721.0	2716.9
10°	2706.3	2699.7	2703.8	2700.6	2698.9
12.5°	2678.5	2674.4	2657.3	2658.9	2672.8
15°	2628.7	2645.0	2615.6	2641.8	2647.5
17.5°	2537.2	2574.0	2602.6	2618.1	2620.5
20°	2578.1	2590.3	2575.6	2576.4	2586.2
22.5°	2525.0	2530.7	2534.8	2529.9	2551.1
25°	2440.1	2418.0	2465.4	2475.2	2509.5
27.5°	2413.9	2396.0	2418.0	2416.4	2445.0
30°	2392.7	2334.7	2344.5	2360.0	2395.1
32.5°	2362.5	2271.0	2261.2	2295.5	2334.7
35°	2309.4	2222.8	2200.0	2222.0	2280.8
37.5°	2264.5	2155.9	2110.1	2139.5	2216.3
40°	2197.5	2103.6	2032.6	2058.7	2149.3
42.5°	2117.5	2058.7	1949.3	1967.2	2070.9
45°	2036.6	1984.4	1868.4	1877.4	2000.7
47.5°	1954.2	1906.0	1784.3	1785.9	1910.9
50°	1873.3	1809.6	1709.2	1680.6	1815.3
52.5°	1768.0	1709.2	1633.2	1586.7	1724.7
55°	1668.3	1602.2	1546.7	1474.8	1621.8
57.5°	1571.2	1497.7	1460.1	1367.8	1505.0
60°	1438.1	1402.9	1347.4	1259.2	1399.7
62.5°	1301.7	1290.3	1233.9	1142.4	1269.8
65°	1142.4	1169.4	1111.4	1033.0	1135.1
67.5°	992.2	1040.4	976.7	928.5	1005.3
70°	832.1	887.7	851.7	834.6	867.2
72.5°	674.5	728.4	731.7	719.4	730.1
75°	521.0	580.6	613.3	594.5	596.9
77.5°	395.2	423.8	459.8	474.5	471.2
80°	244.2	294.0	323.4	353.6	343.0
82.5°	123.3	165.0	200.9	233.6	218.0
85°	51.4	66.1	92.3	121.7	116.8
87.5°	15.5	26.1	27.8	39.2	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)